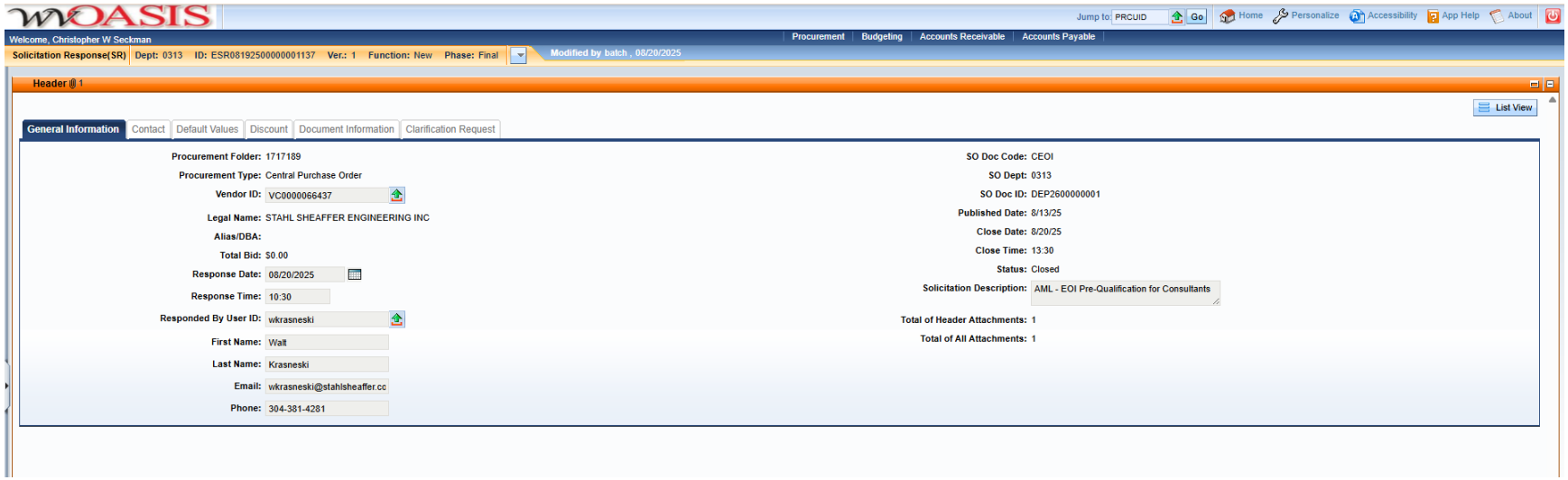
The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency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


WVOASIS
Jump to PRCUID Go
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Welcome, Christopher W Seckman
Procurement
Budgeting
Accounts Receivable
Accounts Payable
Solicitation Response(SR) Dept: 0313 ID: ESR08192500000001137 Ver.: 1 Function: New Phase: Final
Modified by batch , 08/20/2025
Header 1
List View
General Information
Contact
Default Values
Discount
Document Information
Clarification Request
Procurement Folder: 1717189
Procurement Type: Central Purchase Order
Vendor ID: VC0000066437
Legal Name: STAHL SHEAFFER ENGINEERING INC
Alias/DBA:
Total Bid: $0.00
Response Date: 08/20/2025
Response Time: 10:30
Responded By User ID: wkrasneski
First Name: Walt
Last Name: Krasneski
Email: wkrasneski@stahlsheaffer.cc
Phone: 304-381-4281
SO Doc Code: CEOI
SO Dept: 0313
SO Doc ID: DEP2600000001
Published Date: 8/13/25
Close Date: 8/20/25
Close Time: 13:30
Status: Closed
Solicitation Description: AML - EOI Pre-Qualification for Consultants
Total of Header Attachments: 1
Total of All Attachments: 1

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

State of West Virginia
Solicitation Response

Proc Folder:	1717189
Solicitation Description:	AML - EOI Pre-Qualification for Consultants
Proc Type:	Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2025-08-20 13:30	SR 0313 ESR08192500000001137	1

VENDOR

VC0000066437
STAHL SHEAFFER ENGINEERING INC

Solicitation Number: CEOI 0313 DEP2600000001

Total Bid: 0 **Response Date:** 2025-08-20 **Response Time:** 10:30:26

Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X **FEIN#** **DATE**

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI Engineering Design Services				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

EOI Engineering Design Services

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

State of West Virginia
Centralized Expression of Interest

Proc Folder:	1717189	Reason for Modification:
Doc Description:	AML - EOI Pre-Qualification for Consultants	
Proc Type:	Central Purchase Order	

Date Issued	Solicitation Closes	Solicitation No	Version
2025-08-01	2025-08-20 13:30	CEOI 0313 DEP2600000001	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: VC0000066437

Vendor Name : Stahl Sheaffer Engineering, Inc.

Address : 250 Lakewood Center

Street :

City : Morgantown

State : WV **Country :** US **Zip :** 26508

Principal Contact : Robert Milne, P.E.

Vendor Contact Phone: 304.381.4281 **Extension:**

FOR INFORMATION CONTACT THE BUYER

Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor Signature X  **FEIN#** 11-3759367 **DATE** 8/20/2025

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

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting vendors to prequalify to provide proposals on Expression(s) of Interest(s) ("EOI") for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) from qualified firms to provide architectural/ engineering services pursuant to HB 3429.

The purpose of the project is to solicit pre-qualifications for the purpose of making available a list of pre-qualified Consultants.

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US	ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Engineering Design Services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
EOI Engineering Design Services

SCHEDULE OF EVENTS

Line	Event	Event Date

EXPRESSION OF INTEREST

Pre-Qualification for Design Firms

TABLE OF CONTENTS:

SECTION ONE: GENERAL INFORMATION

1. **PURPOSE:** The Acquisitions and Contract Administration Section of the Purchasing Division ("Purchasing Division") is soliciting vendors to prequalify to provide proposals on Expression(s) of Interest(s) ("EOI") for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) ("Agency"), from qualified firms to provide architectural/engineering services ("Vendors") pursuant to HB 3429.

2. **PROJECT:** The purpose of the project is to solicit pre-qualifications for the purpose of making available a list of pre-qualified Consultants.

Enrolled Version - Final Version

OTHER VERSIONS - Committee Substitute (1) | Engrossed Version | Introduced Version |

Key: Green = existing Code. Red = new code to be enacted

WEST VIRGINIA LEGISLATURE

2025 REGULAR SESSION

ENROLLED

Committee Substitute

for

House Bill 3429

BY DELEGATE RILEY

[Passed April 12, 2025; in effect 90 days from passage (July 11, 2025)]

AN ACT to amend the Code of West Virginia, 1931, as amended, by adding a new section designated §22-2-11, relating to providing engineering services under the abandoned mine lands and reclamation act; requiring certain advertisements; establishing a prequalification process for hiring engineering firms; providing prequalification agreement requirements; and providing directives for project assignments.

Be it enacted by the Legislature of West Virginia:

ARTICLE 2. ABANDONED MINE LANDS AND RECLAMATION ACT.

§22-2-11. Prequalification process for consultants; project assignments.

(a) For purposes of this section, "professional services" means engineering services provided by firms and includes those professional services of an engineering nature as well as incidental services that members of those professions and those in their employ may logically or justifiably perform.

(b) The secretary shall publish a Class II legal advertisement to solicit letters of interest for professional services used in engineering procurement. The advertisement:

(1) Shall comply with the Class II legal advertisement provisions of §59-3-1 *et seq.* of this code;

(2) State a time and place for submitting letters of interest and a description of the services required;

(3) Specify the secretary's right to reject any letter of interest; and

(4) Shall be published at least once in at least one daily newspaper published in the city of Charleston and in other journals or magazines as the secretary determines is advisable.

(c) The department shall evaluate any letter of interest received and generate from the letters received a list of all qualified firms, designated the "Prequalified List of Firms".

(d) Upon the department's recommendation, the Purchasing Division shall enter into a prequalification agreement with the qualified firms pursuant to §5A-3-10e of this code. The agreement shall cover the services defined in the letters of interest and have a one-year term, with an optional two-year extension if requested by the department.

(e) For all project assignments:

(1) The department shall issue an expression of interest for any project that needs to be solicited and deliver it to those prequalified firms with which the Purchasing Division has an active prequalification agreement;

(2) The department may review and consider responses only from prequalified consultants with active prequalification agreements;

(3) The department shall conduct discussions with three or more professional services firms solicited on the basis of known or submitted qualifications for the project prior to awarding a contract. If the secretary determines that special circumstances exist such that seeking competition is not practical, the department may, with the Director of Purchasing's prior approval, select a professional services firm on the basis of previous satisfactory performance and knowledge of the department's facilities and needs. After selection, the department and firm shall develop the scope of services required and negotiate a contract;

(4) The department shall notify its procurement division and the Division of Purchasing of the firm that it selected;

(5) The department shall schedule and conduct a scope of work meeting with the selected firm within 45 days of selection;

(6) Within 60 days of selection, unless an extension is requested by both parties, the department and firm shall complete cost negotiations;

(7) The department shall provide to its own procurement division and the Purchasing Division information regarding the agreed upon costs and all required forms necessary to initiate a contract; and

(8) The department may issue an advanced notice to proceed, if requested by the firm.

The Clerk of the House of Delegates and the Clerk of the Senate hereby certify that the foregoing bill is correctly enrolled.

.....

Clerk of the House of Delegates

.....

Clerk of the Senate

Originated in the House of Delegates.

In effect 90 days from passage.

.....

Speaker of the House of Delegates

.....

President of the Senate

The within is ..... this the.....

Day of ....., 2025.

.....

Governor

EXPRESSION OF INTEREST

Pre-Qualification for Design Firms

SECTION TWO: INSTRUCTIONS TO VENDORS SUBMITTING BIDS

Instructions begin on the next page.

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. **REVIEW DOCUMENTS THOROUGHLY:** The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.

2. **MANDATORY TERMS:** The Solicitation may contain **mandatory** provisions identified by the use of the words "**must**," "**will**," and "**shall**." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

3. **PRE-BID MEETING:** The item identified below shall apply to this Solicitation.

☑ A pre-bid meeting will not be held prior to bid opening

☐ A **MANDATORY PRE-BID** meeting will be held at the following place and time:

All Vendors submitting a bid must attend the **mandatory** pre-bid meeting. Failure to attend the **mandatory** pre-bid meeting shall result in disqualification of the Vendor's bid. No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in but are charged with knowing all matters discussed at the pre-bid.

Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. **VENDOR QUESTION DEADLINE:** Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions **must be submitted on or before the date listed below and to the address listed below to be considered**. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are non-binding.

Submitted emails should have the solicitation number in the subject line. Question

Submission Deadline: 8/13/2025 @ 4:00 PM

Submit Questions to: Josh Hager
2019 Washington Street, East Charleston, WV 25305
Fax: (304) 558-3970
Email: Joseph.E.HagerIII@wv.gov

5. **VERBAL COMMUNICATION:** Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.

6. **BID SUBMISSION:** All bids must be submitted on or before the date and time of the bid opening listed in section 7 below. Vendors can submit bids electronically through *wv*OASIS, in paper form delivered to the Purchasing Division at the address listed below either in person or by courier, or in facsimile form by faxing to the Purchasing Division at the number listed below. Notwithstanding the foregoing, the Purchasing Division may prohibit the submission of bids electronically through *wv*OASIS at its sole discretion. Such a prohibition will be contained and communicated in the *wv*OASIS system resulting in the Vendor's inability to submit bids through *wv*OASIS. The Purchasing Division will not accept bids or modification of bids via email.

Bids submitted in paper, facsimile, or via *wv*OASIS must contain a signature. Failure to submit a bid in any form without a signature will result in rejection of your bid.

A bid submitted in paper or facsimile form should contain the information listed below on the face of the submission envelope or fax cover sheet. Otherwise, the bid may be rejected by the Purchasing Division.

VENDOR NAME: Stahl Sheaffer Engineering, Inc.
BUYER: Josh Hager
SOLICITATION NO.: CEOR 0313 DEP2600000001
BID OPENING DATE: see section 7
BID OPENING TIME: see section 7
FAX NUMBER: 304-558-3970

Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason.

Bid Delivery Address and Fax Number:
Department of Administration, Purchasing Division 2019 Washington Street East
Charleston, WV 25305-0130
Fax: 304-558-3970

7. **BID OPENING:** Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by *wv*OASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery or via delivery by mail).

Bid Opening Date and Time: 8/20/2025 @ 1:30 PM ET

Bid Opening Location:
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

8. **ADDENDUM ACKNOWLEDGEMENT:** Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgement Form. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

9. **BID FORMATTING:** Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

10. **ALTERNATE MODEL OR BRAND:** Unless the box below is checked, any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand **shall** clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items **may** be grounds for rejection of a Vendor's bid.

☐ This Solicitation is based upon a standardized commodity established under W. Va. Code § 5A-3-61. Vendors are expected to bid the standardized commodity identified. Failure to bid the standardized commodity will result in your firm's bid being rejected.

11. **COMMUNICATION LIMITATIONS:** In accordance with West Virginia Code of State Rules §148-1-6.6.2, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.

12. **REGISTRATION:** Prior to Contract award, the apparent successful Vendor **must** be properly registered with the West Virginia Purchasing Division and must have paid the $125 fee, if applicable.

13. **UNIT PRICE:** Unit prices **shall** prevail in cases of a discrepancy in the Vendor's bid.

14. **PREFERENCE:** Vendor Preference may be requested in purchases of motor vehicles or construction and maintenance equipment and machinery used in highway and other infrastructure projects. Any request for preference must be submitted in writing with the bid, must specifically identify the preference requested with reference to the applicable subsection of West Virginia Code § 5A-3-37, and must include with the bid any information necessary to evaluate and confirm the applicability of the requested preference. A request form to help facilitate the request can be found at: www.state.wv.us/admin/purchase/vrc/Venpref.pdf.

15A. **RECIPROCAL PREFERENCE:** The State of West Virginia applies a reciprocal preference to all solicitations for commodities and printing in accordance with W. Va. Code § 5A-3-37(b). In effect, non-resident vendors receiving a preference in their home states, will see that same preference granted to West Virginia resident vendors bidding against them in West Virginia. Any request for reciprocal preference must include with the bid any information necessary to evaluate and confirm the applicability of the preference. A request form to help facilitate the request can be found at: www.state.wv.us/admin/purchase/vrc/Venpref.pdf.

15. **SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES:** For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37 and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority- owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors.

16. **WAIVER OF MINOR IRREGULARITIES:** The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.7.

17. **ELECTRONIC FILE ACCESS RESTRICTIONS:** Vendor must ensure that its submission in *wv*OASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.

18. **NON-RESPONSIBLE:** The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1- 5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform or lacks the integrity and reliability to assure good-faith performance."

19. **ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.6. and § 148-1-6.3."

20. **WITH THE BID REQUIREMENTS:** In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.7. This authority does not apply to instances where state law mandates receipt with the bid.

21. **EMAIL NOTIFICATION OF AWARD:** The Purchasing Division will attempt to provide bidders with e-mail notification of contract award when a solicitation that the bidder participated in has been awarded. For notification purposes, bidders must provide the Purchasing Division with a valid email address in the bid response. Bidders may also monitor *wv*OASIS or the Purchasing Division's website to determine when a contract has been awarded.

22. **EXCEPTIONS AND CLARIFICATIONS:** The Solicitation contains the specifications that **shall** form the basis of a contractual agreement. **Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid.** Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

EXPRESSION OF INTEREST

Pre-Qualification for Design Firms

SECTION THREE: PROJECT SPECIFICATIONS

1. **Background:** The WVDEP/AML Program is soliciting Consultant Firms to provide "full service" A/E planning, realty, design, and construction oversight. Firms are to be licensed Architectural/Engineering Firms (A/E) in the State of West Virginia and either the firm or its sub-contractors within a given field must have a successful track record of permitting and designing reclamation projects, reality, and construction inspection. The anticipated contract (s) will be advertised once the prequalified vendors are determined and will be for "full service" A/E planning, realty, design, and construction oversight. This solicitation is only for the purpose of prequalifying vendors. No specific project will be awarded from this solicitation.

   The expectation is the successful prequalified A/E firm(s) will be able to call upon a team of professionals for each discipline, whether internal or subcontracted, that can provide each discipline's deliverables with a minimum of supervision. The expectation is that the successful prequalified A/E firm will be providing a schedule, tracking work to that schedule, and providing regular updates as to progress with a minimum of State oversight.

2. **Project and Goals:** The project goals and objectives include but are not limited to those listed below. Vendors should discuss any anticipated concepts and proposed methods of approach for achieving each of the listed goals and objectives:

   Qualifications should be highlighted to meet the following criteria:

   All Work shall comply with the Infrastructure Investment Jobs Act (IIJA), including compliance with the Davis-Bacon and Build America, Buy America (BABA), as applicable and all Federal, State, and Local laws.

   Planning Work encompasses all related consultations, investigations, report generation, applications, etc. required to perform the Work, which may include, but may not be limited to: National Environmental Policy Act (NEPA) consultations, West Virginia Division of Natural Resources (WVDNR) consultation, West Virginia Historic Preservation Office (SHPO) consultation, WV Regional Planning consultation, US Forest Service consultations, US Fish and Wildlife Service (USFWS) consultations, and any other consultation(s) or permit(s) needed to perform the Work. The above includes but is not limited to bat studies, threatened and endangered species investigation / analysis / report generation, water quality sampling, and data collection / analysis.

EXPRESSION OF INTEREST

Pre-Qualification for Design Firms

Realty Work encompasses all necessary research and subsequent right of entry agreements being set into place for the sites to be sufficiently and legally investigated, designed, and for a final design to be constructed. This may include, but may not be limited to: performing courthouse research to determine legal property ownership and dutifully documenting the findings, obtaining Exploratory Rights of Entry (EROE) from affected landowners, obtaining Construction Rights of Entry (CROE) from landowners, keeping logs of all conversations with landowners, data collection, reporting, and possessing the capability of having boundary surveys performed on an as-needed basis. The successful A/E firm must obtain the rights of entry prior to performing any fieldwork on-site, and these rights of entry must include the successful A/E firm, the WVDEP-DLR-AML, and Office of Surface Mining Reclamation & Enforcement (OSMRE).

Design Work which may include, but may not be limited to: Civil, Geological, Hydrological, Survey (mapping), Process, Structural, Electrical, etc., as applicable. This encompasses all required engineering and survey (including current mapping and other related services) necessary to successfully design an engineered, permanent solution that fully addresses the issues and problems that each project presents. This also includes site and geotechnical investigations. Each design must fully remove and mitigate dangers to private individuals or the public that are currently present, not introduce new dangers, and be stamped by a Registered Professional Engineer in the State of West Virginia for design and Registered Professional Surveyor in the State of West Virginia for survey for deliverables. Design Work includes but is not limited to: National Pollutant Discharge Elimination System (NPDES) construction stormwater General Permit registration, West Virginia Department of Highways (WVDOH) MM-109 encroachment permits, Army Corps of Engineers (USACE) consultations, Department of Health Permits (for water lines, if applicable), and county permits as applicable, including floodplain permits. Design Work could also include but is not limited to: developing construction plans and technical specifications for all aspects to reclaim mine portals, drainage controls and systems, slope stabilization, coal refuse and mine spoil reclamation, stream and / or channel restoration, subsidence repair, temporary and permanent access or accesses for construction and future maintenance, stormwater and erosion and sediment control, regrading and revegetation, any required water treatment systems, and any remediation for all other conditions encountered on the project sites. The successful A/E firm must
obtain, maintain, and release all required permits.

Construction Oversight Work including but may not be limited to: Daily Inspection with documentation for the duration of the Construction and through the warranty period until final release, Engineering Oversight and Support, review and approval of contractor-provided as-builts, and Final Engineer's Certification Report of the project.

EXPRESSION OF INTEREST

Pre-Qualification for Design Firms

Vendor should describe how the firm will meet the Agency's and firms agreement for deadlines.

Vendors should demonstrate a clear understanding of the time-sensitive nature of Abandoned Mine Land (AML) reclamation projects and provide a plan for how they will meet all deadlines established by the Agency throughout the project lifecycle.

3. **Contract Services Deliverables: Once Prequalified, The Agency expects firms to**:

   - Adhere to established schedules for project initiation, deliverables, and completion.
   - Be responsive to funding and compliance timelines under the Infrastructure Investment and Jobs Act (IIJA) and the Surface Mining Control and Reclamation Act (SMCRA).
   - Coordinate effectively with Agency staff, subcontractors, and permitting authorities to avoid delays.
   - Proactively identify risks and propose mitigation strategies to stay on track.

   Firms must include but not limited to the following documentation in each prequalification response:

   - A description of their project management approach and internal systems used to ensure timely performance;
   - Examples of past AML or similar projects completed on time, including key deadlines met.
   - A summary of personnel availability and resource planning to meet overlapping or expedited deadlines;
   - A plan for communication, progress tracking, and prompt issue resolution.

4. **Qualifications, Experience, and Past Performance:** Consultant must include a statement of qualifications and performance data. The statement of qualifications and performance data may be presented through things like information regarding its employees, such as staff qualifications and experience in completing similar projects; references; copies of any staff certifications or degrees applicable to this project; proposed staffing plan; descriptions of past projects completed entailing the location of the project, project manager name and contact information, type of project, and the project goals and objectives and how they were met.

EXPRESSION OF INTEREST

Pre-Qualification for Design Firms

All Consultants requesting to be considered **MUST** hold a valid Certificate of Authorization (COA) and have an individual who shall oversee the work, who will sign and seal all design documentation, plans, etc., and must be registered and licensed with the West Virginia Board of Professional Engineers.

The response should be presented in concise format which defines the corporation history and the experience, qualifications, and performance data of the firm's staff as requested by the AML Consultant Qualification Questionnaire (CQQ), Attachment "A" and the AML and Related Project Experience Matrix (RPEM), Attachment "B".

AML Consultant Qualification Questionnaire (CQQ) should be completed and submitted with Vendor's submitted response to be eligible (**See Attachment "A"**).

AML and Related Project Experience Matrix (RPEM) should also be completed and submitted with Vendor's submitted response to be eligible (**See Attachment "B"**).

SECTION FOUR: VENDOR PROPOSAL, EVALUATION, & AWARD

1. The resume and qualifications of the submitted staff will be reviewed and evaluated based on design experience. Additional AML experience should be included for additional evaluation. Selections will be based on detailed work experience supplied in the resume, as well as the firm's principal in charge assurances of reliability and competency. If it is determined that work is being performed at a substandard or inefficient manner the Department may choose to remove the firm from the list with the approval of the Purchasing Division.

Once approved, that Consultant's name shall be placed on the list of Consultants pre-qualified to participate in this program and shall be considered pre-qualified and eligible for project selection

Those Consultants selected and placed on a master list MUST resubmit their CQQ (or **Attachment "A"**) upon any changes or change of discipline. Consultants must keep a current certificate of insurance (COI) throughout the contract period and resubmit a current COI upon renewals.

EXPRESSION OF INTEREST

Pre-Qualification for Design Firms

2. **Evaluation and Award Process:** Expressions of Interest for projects will be evaluated and awarded in accordance with W.Va. Code §22-2-11. The State shall select the best value solution according to WV Code §22-2-11. This solicitation is for the prequalification of those vendors only. No award for a specific project will be determined from this solicitation.

   If negotiations are successful, the contract documents will be forwarded to the WV Purchasing Division for review and approval, and then to the WV Attorney General's office for review and approval as to form. Once approved, a formal contract will be issued to the Vendor.

   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, the agency will then commence negotiations with the second most qualified firm, and so on, until an agreement is reached or the solicitation is cancelled.

   Evaluation Determination: The Agency will evaluate the letters of interest to determine the most qualified to perform the desired service. The evaluation criteria will be based upon the prequalification process for consultants; project assignments pursuant to WV Code §22-2-11.

EXPRESSION OF INTEREST

Pre-Qualification for Design Firms

SECTION FIVE: TERMS AND CONDITIONS

Terms and conditions begin on the next page.

GENERAL TERMS AND CONDITIONS:

1. CONTRACTUAL AGREEMENT: Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or **"Agencies"** means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or **"Proposal"** means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or **"Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☑ **Term Contract**

Initial Contract Term: The Initial Contract Term will be for a period of One (1) Year _____. The Initial Contract Term becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and the Initial Contract Term ends on the effective end date also shown on the first page of this Contract.

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to Two (2) successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

☐ **Alternate Renewal Term** – This contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

☐ **Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within _____days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within _____ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that:

☐ the contract will continue for _____ years;

☐ the contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's Office (Attorney General approval is as to form only).

☐ **One-Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☐ **Construction/Project Oversight:** This Contract becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and continues until the project for which the vendor is providing oversight is complete.

☐ **Other:** Contract Term specified in _____

4. AUTHORITY TO PROCEED: Vendor is authorized to begin performance of this contract on the date of encumbrance listed on the front page of the Award Document unless either the box for "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked in Section 3 above. If either "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked, Vendor must not begin work until it receives a separate notice to proceed from the State. The notice to proceed will then be incorporated into the Contract via change order to memorialize the official date that work commenced.

5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation/Award Document are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☐ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☑ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One-Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

☐ **Construction:** This Contract is for construction activity more fully defined in the specifications.

6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One-Time Purchase contract.

7. REQUIRED DOCUMENTS: All of the items checked in this section must be provided to the Purchasing Division by the Vendor as specified:

☑ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

☑ Certificate of Authorization

☐

☐

☐

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:

☑ **Commercial General Liability Insurance** in at least an amount of: $1,000,000.00 per occurrence.

☑ **Automobile Liability Insurance** in at least an amount of: $1,000,000.00 per occurrence.

☑ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: $1,000,000.00 per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

☐ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: _____ per occurrence.

☐ **Cyber Liability Insurance** in an amount of: _____ per occurrence.

☐ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

☐ **Pollution Insurance** in an amount of: _____ per occurrence.

☐ **Aircraft Liability** in an amount of: _____ per occurrence.

☐

☐

☐

☐

9. WORKERS' COMPENSATION INSURANCE: Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. VENUE: All legal actions for damages brought by Vendor against the State shall be brought in the West Virginia Claims Commission. Other causes of action must be brought in the West Virginia court authorized by statute to exercise jurisdiction over it.

11. LIQUIDATED DAMAGES: This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

☐ _____ for _____.

☐ Liquidated Damages Contained in the Specifications.

☑ Liquidated Damages Are Not Included in this Contract.

12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

14. PAYMENT IN ARREARS: Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.

15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

20. TIME: Time is of the essence regarding all matters of time and performance in this Contract.

21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.

22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

> **SUBCONTRACTOR COMPLIANCE:** Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it 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 www.state.wv.us/admin/purchase/privacy.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor 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, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to 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 Vendor.

34. VENDOR NON-CONFLICT: Neither Vendor nor its representatives are permitted to have any interest, nor shall they acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor 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, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor 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 Vendor, 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; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

37. NO DEBT CERTIFICATION: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State. By submitting a bid, or entering into a contract with the State, Vendor is affirming that (1) for construction contracts, the Vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, neither the Vendor nor any related party owe a debt as defined above, and neither the Vendor nor any related party are in employer default as defined in the statute cited above unless the debt or employer default is permitted under the statute.

38. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

39. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

☑ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.division@wv.gov.

40. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.

b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process.

c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:

    1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars ($2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or

    2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars ($50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least $1 million, the Vendor must submit to the Agency a disclosure of interested parties prior to beginning work under this Contract. Additionally, the Vendor must submit a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-work interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

44. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

45. VOID CONTRACT CLAUSES: This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

46. ISRAEL BOYCOTT: Bidder understands and agrees that, pursuant to W. Va. Code § 5A-3-63, it is prohibited from engaging in a boycott of Israel during the term of this contract.

ADDITIONAL TERMS AND CONDITIONS
(Architectural and Engineering Contracts Only)

1. PLAN AND DRAWING DISTRIBUTION: All plans and drawings must be completed and available for distribution at least five business days prior to a scheduled pre-bid meeting for the construction or other work related to the plans and drawings.

2. PROJECT ADDENDA REQUIREMENTS: The Architect/Engineer and/or Agency shall be required to abide by the following schedule in issuing construction project addenda. The Architect/Engineer shall prepare any addendum materials for which it is responsible, and a list of all vendors that have obtained drawings and specifications for the project. The Architect/Engineer shall then send a copy of the addendum materials and the list of vendors to the State Agency for which the contract is issued to allow the Agency to make any necessary modifications. The addendum and list shall then be forwarded to the Purchasing Division buyer by the Agency. The Purchasing Division buyer shall send the addendum to all interested vendors and, if necessary, extend the bid opening date. Any addendum should be received by the Purchasing Division at least fourteen (14) days prior to the bid opening date.

3. PRE-BID MEETING RESPONSIBILITIES: The Architect/Engineer shall be available to attend any pre-bid meeting for the construction or other work resulting from the plans, drawings, or specifications prepared by the Architect/Engineer.

4. AIA DOCUMENTS: All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the attached AIA documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein. The terms and conditions of this document shall prevail over anything contained in the AIA Documents or the Supplementary Conditions.

5. GREEN BUILDINGS MINIMUM ENERGY STANDARDS: In accordance with West Virginia Code § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

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

(Printed Name and Title) Robert Milne, P.E., Regional Manager

(Address) 250 Lakewood Center, Morgantown, WV 26508

(Phone Number) / (Fax Number) 304.692.9176

(email address) rmilne@stahlsheaffer.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Stahl Sheaffer Engineering, Inc.

(Company)

(Signature of Authorized Representative)

Robert Milne, P.E., Regional Manager

(Printed Name and Title of Authorized Representative) (Date)

304.692.9176

(Phone Number) (Fax Number)

rmilne@stahlsheaffer.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0313 DEP2600000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

☑ Addendum No. 1	☐ Addendum No. 6
☐ Addendum No. 2	☐ Addendum No. 7
☐ Addendum No. 3	☐ Addendum No. 8
☐ Addendum No. 4	☐ Addendum No. 9
☐ Addendum No. 5	☐ Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further 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.

Stahl Sheaffer Engineering, Inc.
Company

Authorized Signature

August 20, 2025
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

Office of Surface Mining Reclamation and Enforcement
Instructions for Completing the AML Contractor Form OMB #1029-0119

Purpose: The Office of Surface Mining Reclamation and Enforcement Applicant/Violator System (AVS) office is required to conduct eligibility checks for businesses performing abandoned mine land (AML) reclamation work to ensure those businesses are not associated with any coal mining violations in accordance with the Surface Mining Control and Reclamation Act (SMCRA). This form is used to update the AVS database which maintains relationship information between individuals and their associated businesses. If you have any questions, please contact the AVS Office at 800-643-9748.

Part A: General Information: Part A should be completed by the AML Contractor. You can find an electronic fillable form on our website (https://www.osmre.gov/programs/regulating-coal-mines/avs).

Part B: Obtain an Organizational Family Tree (OFT): Part B should be completed by the AML Contractor. An Organizational Family Tree (OFT) indicates the relationships between individuals and their associated business.

You can obtain an OFT two ways:

1. Call the AVS Office at 800-643-9748 to request your company's OFT.
2. Go to the AVS website (https://avss.osmre.gov). Click "Access AVS", and then "Login as Guest". Place your cursor on the "Entity" Module and click. Type your business name (or entity number) in search box and press enter. Select your company and then click on the "Relationship" tab to display your Entity OFT information. Print the Entity OFT from AVS. Review the OFT, if you need to make updates complete Part D. Attach the OFT to your AML Contractor Form.

If you are a new company or this is your first AML bid: Your business is most likely **not** in the AVS. If your company does not appear in the AVS database, move on to Part C, check Box 3, and complete Part D of this form.

If your company has worked on previous AML projects or in the coal mining industry: Your business is most likely in the AVS, but may need to be updated. Obtain and review your OFT and then complete Part C.

Part C: Certifying and updating information in the Applicant/Violator System (AVS). Part C should be completed by the AML Contractor. Please check the box that best describes your situation, sign and date.
Note: Signature date must be recent (within 30 days) to be considered.

Part D: OFT Information. Part D should be completed by the AML Contractor **only** if you want to make updates to what information is in the AVS, or if your company **does not** have any information in the AVS. Include **all** fields, including the relevant begin and/or end dates for individuals, including middle name or initial for individuals if possible.

Answers to Part D FAQs:

Which employees should be included in Part D?
Any current or separated employee of significance should be listed. Refer to the list provided at the top of Part D. For those owning less than 10% reporting the ownership is optional. Include those employees who direct, manage, or control the project. If, for example, a Professional Engineer has the power to determine how the project is conducted you should include him/her on Part D.

What address and phone number should I use?
Use the address and phone number where the person receives business correspondence.

What are the begin and end dates for?
Begin dates indicate when a person started in that position in your company. If an individual still works at the company you can simply fill in the begin date and leave the end date blank or write "N/A". **End dates** are used for indicating that someone no longer works in that capacity or is no longer employed at the company. **If an employee has held more than one position** or title, note the begin dates/end dates for each position.

OMB # 1029-0119
Expiration Date:
01/31/2028

ABANDONED MINE LANDS (AML) CONTRACTOR INFORMATION FORM

You must complete this form for your AML contracting officer to request an eligibility evaluation from the Office of Surface Mining Reclamation and Enforcement (OSMRE) to determine if you are eligible to receive an AML contract. This requirement can be found under OSMRE's regulations at 30 CFR 874.16. **NOTE:** This form must be signed and **dated within 30 days** of submission to be considered for a current bid.

Part A: General Information

Business Name:	Stahl Sheaffer Engineering, Inc.
Tax ID #:	11-3759367
Address:	250 Lakewood Center
City, State, & Zip:	Morgantown, WV 26508
Phone Number:	304.692.9176
Email Address:	rmilne@stahlsheaffer.com

Part B: Obtain an Organizational Family Tree (OFT) from the Applicant Violator System (AVS)

If you plan to certify the existing AVS information or submit updates under Part C, you must include an OFT. Instructions for downloading an OFT from the AVS can be found at: https://www.osmre.gov/sites/default/files/2022-02/OMB%201029-0119%20instructions.pdf. If you require assistance you may contact the AVS Office by phone at: 800-643-9748, or by email at: avshelp@osmre.gov.

Part C: Certifying and updating information in the AVS

Select one of the options, follow the instructions for the selected option, sign, and date below.

I, Robert Milne, P.E. , have express authority to certify that:
(Print Name)

☐ 1. Our business is listed in the AVS. The information is accurate, complete, and up to date. (If you select this option, you must attach an Entity OFT from the AVS to this form). Do not complete Part D.

☐ 2. Our business is in the AVS. The information needs to be updated. (If you select this option, you must attach an Entity OFT from the AVS to this form). Complete Part D to provide the missing or corrected information.

☒ 3. Our business is not listed in the AVS. The information needs to be added. Complete Part D to provide the information.

8/20/2025		Regional Manager
Date	Signature	Title

OMB # 1029-0119
Expiration Date:
01/31/2028

Part D: OFT Information

Contractor's Business Name: Stahl Sheaffer Engineering, Inc.

If the current Entity OFT information for your business is incomplete in the AVS, or if there is no information in the AVS for your business, you must provide all of the following information as it applies to your business. Please include additional copies of this page if the space below is not sufficient to capture all information.

- Every officer (President, Vice President, Secretary, Treasurer, etc.);
- All Directors, Partners, and Members;
- All persons performing a function similar to a Director;
- Every person or business that owns 10% or more of the voting stock in your business;
- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- **Please list an end date for any person who is no longer with your business.**

Name:	Rod Stahl, P.E.
Address:	301 Science Park Road, Suite 333
City, State, Zip:	State College, PA 16803
Begin Date:	October 1, 2005
End Date:	N/A
% Ownership:	3.45%
Position/Title:	President
Phone Number:	814.574.6146

Name:	Jeffery Sheaffer, P.E, CBSI, NCTI
Address:	106 North High Street
City, State, Zip:	Selinsgrove, PA 17870
Begin Date:	October 9, 2006
End Date:	N/A
% Ownership:	3.48%
Position/Title:	President
Phone Number:	814.574.7599

Name:	Scott Popovich, P.E.
Address:	1000 Noble Energy Drive, Suite 410
City, State, Zip:	Canonsburg, PA 15317
Begin Date:	February 24, 2012
End Date:	N/A
% Ownership:	1.93%
Position/Title:	Senior Vice President
Phone Number:	724.255.3131

Name:	Mike Marso
Address:	4431 N. Front street, Suite 102
City, State, Zip:	Harrisburg, PA 17110
Begin Date:	February 14, 2011
End Date:	N/A
% Ownership:	2.87%
Position/Title:	Senior Vice President
Phone Number:	717.514.3880

PAPERWORK REDUCTION STATEMENT

The Paperwork Reduction Act of 1995 (44 U.S.C 3501) requires us to inform you that: Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. This information is necessary for all successful bidders prior to the distribution of AML funds, and is required to obtain a benefit.

Public reporting burden for this form is estimated to range from 15 minutes to one hour, with an average of 30 minutes per response, including time for reviewing instructions, gather and maintaining data, and completing and reviewing the form. You may direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Office of Surface Mining Reclamation and Enforcement, 1849 C Street, NW, Room 4559, Washington, DC 20240.

OMB # 1029-0119
Expiration Date:
01/31/2028

Part D: OFT Information

Contractor's Business Name: Stahl Sheaffer Engineering, Inc.

If the current Entity OFT information for your business is incomplete in the AVS, or if there is no information in the AVS for your business, you must provide all of the following information as it applies to your business. Please include additional copies of this page if the space below is not sufficient to capture all information.

- Every officer (President, Vice President, Secretary, Treasurer, etc.);
- All Directors, Partners, and Members;
- All persons performing a function similar to a Director;
- Every person or business that owns 10% or more of the voting stock in your business;
- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- **Please list an end date for any person who is no longer with your business.**

Name:	Paul McClellan, P.E.
Address:	800 Leonard Street
City, State, Zip:	Clearfield, PA 16830
Begin Date:	March 10, 2014
End Date:	N/A
% Ownership:	1.78%
Position/Title:	Vice President
Phone Number:	814.762.5104

Name:	John Rautzahn P.E, CBSI
Address:	4431 N. Front Street, Suite 102
City, State, Zip:	Harrisburg, PA 17110
Begin Date:	September 23, 2019
End Date:	N/A
% Ownership:	1.88%
Position/Title:	Vice President
Phone Number:	717.877.0778

Name:	Peter Brumberg, P.E.
Address:	301 Science Park Road, Suite 333
City, State, Zip:	State College, PA 16803
Begin Date:	October 7, 2013
End Date:	N/A
% Ownership:	1.87%
Position/Title:	Vice President
Phone Number:	814.470.0865

Name:	Robert Milne P.E.
Address:	250 Lakewood Center
City, State, Zip:	Morgantown,WV 26508
Begin Date:	June 26, 2023
End Date:	N/A
% Ownership:	1.81%
Position/Title:	Regional Manager
Phone Number:	304.692.9176

PAPERWORK REDUCTION STATEMENT

The Paperwork Reduction Act of 1995 (44 U.S.C 3501) requires us to inform you that: Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. This information is necessary for all successful bidders prior to the distribution of AML funds, and is required to obtain a benefit.

Public reporting burden for this form is estimated to range from 15 minutes to one hour, with an average of 30 minutes per response, including time for reviewing instructions, gather and maintaining data, and completing and reviewing the form. You may direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Office of Surface Mining Reclamation and Enforcement, 1849 C Street, NW, Room 4559, Washington, DC 20240.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "A"

PROJECT NAME	DATE (DAY, MONTH, YEAR)	FEIN
AML-EOI Pre-Qualifications for Consultants CEOI 0313 DEP2600000001	20, August, 2025	11-3759367
1. FIRM NAME Stahl Sheaffer Engineering, Inc.	2. HOME OFFICE BUSINESS ADDRESS 301 Science Park Road, Suite 333, State College, PA 16803	3. FORMER FIRM NAME Stahl Sheaffer Engineering, LLC.

4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OWNERSHIP	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise)
814.689.1562	2006	Individual Corporation Partnership Joint-Venture	YES NO

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE

250 Lakewood Center, Morgantown, WV 26508 / 304.381.4281 / Robert Milne, P.E. / 6
1000 Noble Energy Drive, Suite 410, Canonsburg, PA 15317 / 724.960.1111 / Scott Popovich, P.E. / 30
800 Leonard Street, Suite 200, Clearfield, PA 16830, 814.857.6334, Paul McClellan, P.E., 20

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
Rod G. Stahl, P.E. Jeffery M. Sheaffer, P.E., C.B.S.I., NCTI	

9. PERSONNEL BY DISCIPLINE

11 ADMINISTRATIVE	__ECOLOGISTS	__LANDSCAPE ARCHITECTS	17 STRUCTURAL ENGINEERS
__ARCHITECTS	__ECONOMISTS	1 MECHANICAL ENGINEERS	9 SURVEYORS
__BIOLOGIST	__ELECTRICAL ENGINEERS	__ MINING ENGINEERS	2 TRAFFIC ENGINEERS
1 CADD OPERATORS	2 ENVIRONMENTALISTS	4 PHOTOGRAMMETRISTS	21 OTHER
__CHEMICAL ENGINEERS	__ESTIMATORS	__PLANNERS: URBAN/REGIONAL	
14 CIVIL ENGINEERS	1 GEOLOGISTS	__SANITARY ENGINEERS	
20 CONSTRUCTION INSPECTORS	__HISTORIANS	3 SOILS ENGINEERS	
19 DESIGNERS	__HYDROLOGISTS	__ SPECIFICATION WRITERS	125 TOTAL PERSONNELL
__ DRAFTSMEN			

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 17*

***RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.**

*** This number is the combined count of the three offices listed above that will be providing staff and support for this AML effort.**

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO N/A

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Qualification Questionnaire".

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
O. R. Colan Associates, LLC 22710 Fairview Center Drive, Fairview Park, OH 44126	Realty – Real property Services	__X__Yes ______No
NAME AND ADDRESS: Aerial Prospex 210 Andover Lane Lititz, PA 17543	SPECIALTY: Aerial Photogrammetry	WORKED WITH BEFORE __X__Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No

12. A. Is your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

YES **Description and Number of Projects:**

Stahl Sheaffer's staff has roughly 5-10 years of experience on pure Abandoned Mine Land Reclamation Projects while employed by others. However, Stahl Sheaffer has a wealth of similar experience on a wide array of projects, from stream restoration services, water quality and treatment, and numerous reclamation projects with our energy partners throughout WV, PA, and OH.

NO

B. Is your firm experienced in Soil Analysis?

YES **Description and Number of Projects**

Stahl Sheaffer provides soil analysis, including Full Depth Reclamation (FDR) and Cold-in-Place Recycling (CIR), to support roadway construction and maintenance. Our services include sub-grade testing, embankment stabilization testing, and roadway coring, allowing us to recommend effective FDR and CIR mix designs and quality control monitoring during construction to ensure efficient soil stabilization. We provide turn-key geotechnical services, from subsurface investigation and laboratory testing to asphalt mix designs for road repair, slide remediation, and embankment stabilization. Stahl Sheaffer has a 5,000 square foot full service Geotechnical Lab in Washington County, PA that is AMRL/AASHTO registered and features state-of the art equipment for: AASHTO Accredited Testing of Soils, Aggregate, and Asphalt; Full-Depth Reclamation (FDR) Designs; Cold In-Place Recycled (CIR) Asphalt Mix Designs; Hot Mix Asphalt (HMA) Testing; Slope Stability Analysis; Foundation Design & Analysis; Pavement Design & Analysis; Subgrade Testing; and Embankment Stabilization Testing.

Year to date Stahl Sheaffer has performed soil testing on 32 projects this year.
.

NO

C. Is your firm experienced in hydrology and hydraulics?

YES **Description and Number of Projects:**

Stahl Sheaffer provides Hydrologic and Hydraulic (HH) Analyses to support roadway and bridge projects. Our hydrologic services include the use of multiple software programs including USGS Regression/Streamstats, TR-55, EFH2 and WMS, as well as the Rational Method and Bulletin 17B Method for gaged drainage areas. Our hydraulic services include the use of software programs such as HECRAS, HY8, and HydroCAD to determine the flow characteristics through bridges, culverts, open channels and other drainage features. Our services also include review of existing FEMA data such as FIRM panels and FIS Reports for bridge structures and waterways. We also provide review of existing FEMA HEC1 and HEC2 data to develop existing conditions models at bridge structures. We can also provide acquisition of CLOMRs, LOMRs, and provide coordination with FEMA and local floodplain managers if a project causes a change to the established FEMA water surface elevation. We also provide scour calculation services to protect bridge foundations, culvert outlets, and stream banks from erosion. Through our hydrologic and hydraulic services, we are able to provide HH reports to submit with waterway permits required by agencies such as FEMA and the U.S. Army Corps of Engineers. Stahl Sheaffer Engineering can provide full Hydrologic and Hydraulic services for projects ranging from small cross pipes to large bridge replacement projects and everything in between.

Currently we are performing Hydrologic and Hydraulic services on 6 bridge/culvert projects in West Virginia for both public and private clients, with another group of 5 projects coming soon.

NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES **Description and Number of Projects**

Stahl Sheaffer subcontracts the actual aerial photography, but we can develop contour mapping via conventional survey and LiDAR. In-house surveying capabilities – including Professional Land Surveyors (PLS), LiDAR systems, and aerial sUAS inspection technology – provide enhanced ability to manage design projects efficiently and maintain high quality. Our staff is experienced in performing field surveying for roadway and site development projects. Our field work facilitates the development of mapping coverage to depict existing conditions and present proposed construction. The data collected also permits the development of a digital terrain model which facilitates design plans. Our field survey procedures are performed using total stations/GPS systems with electronic field book capability or with our mobile LiDAR unit. Field data is collected and electronically transferred to in-house computers where it is compiled, checked, and plotted. Our sub-consultant Aerial Prospex specializes in UAS based aerial photography and contour mapping via LiDAR or Photogrammetry datasets. Aerial Prospex has completed over 300+ projects in the last years throughout PA, WV, MD, and NJ.

NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

YES **Description and Number of Projects:**

Stahl Sheaffer's Site Development Group is experienced with domestic waterline design projects. Virtually every project this group works on includes utility upgrades. Stahl Sheaffer has designed domestic waterlines for schools, commercial buildings, and subdivisions.

NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES **Description and Number of Projects:**

Members of our design team have worked on Acid Mine Drainage Evaluation and Abatement Desing Projects in the past.

The number of projects is in the 15-20 range.

NO

G. Is your firm experienced in Construction Oversight?

YES **Description and Number of Projects**

Stahl Sheaffer can assist the WVDEP with the bidding process by providing necessary bid documents, plans, and technical specifications needed to complete a project. Our staff can assist throughout the entire construction process, starting with the bid advertisement, attending bid openings and progress meetings, performing periodic field visits, and completing the final walk through and punch list. Stahl Sheaffer can also provide inspection services with our construction inspectors, who have a valuable combination of practical field experience and technical understanding of a project. They serve as a point of contact for communication between owner and contractor to ensure construction schedules are updated and reviewed biweekly, preventing delays jeopardizing completion dates. Our inspectors maintain current certification in areas of expertise (NICET, NECEPT, ACI, etc.), and we provide in-house and industry training to ensure they have current knowledge and expertise.

Construction Oversight has been a core service of Stahl Sheaffer since the firm was founded 20 years ago. Currently, Sahl Sheaffer is providing construction oversight services on 32 projects throughout PA and WV.

NO

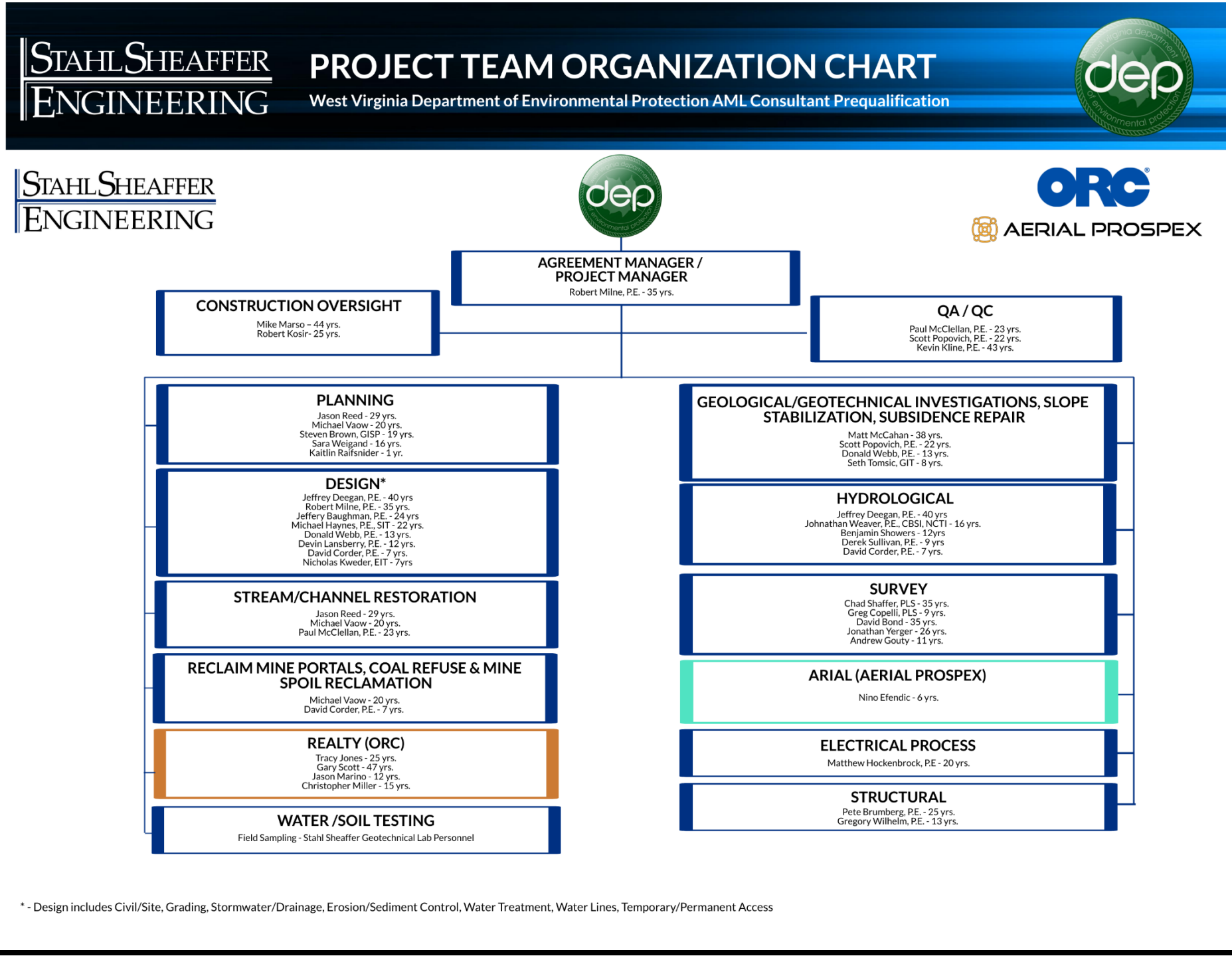
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

As outlined in our qualifications and Attachments A and B, Stahl Sheaffer offers the technical depth and flexibility needed to successfully provide AML engineering services. Our core WVDEP AML team, shown in the organizational chart on the next page, will be led by Mr. Robert Milne, P.E., a licensed West Virginia Professional Engineer and Regional Office manager in our Morgantown, WV office. With over 35 years of related project management, design, and construction oversight experience, Mr. Milne will oversee all project activities for the WVDEP.

The team includes specialists essential to AML work: a senior project manager for site and mining condition assessments, a geologist or civil project engineer for subsurface investigations, a civil engineer for grading and earthwork balance, a civil engineer for stormwater and erosion control, and a civil engineer to prepare plans and specifications.

We also have access to additional experts in surface water quality, hazardous materials, cover soils, refuse stability, site access, and bridge evaluation. This collaborative structure supports efficient design, the ability to manage multiple concurrent projects, and seamless integration of additional Stahl Sheaffer resources as needed for project success.

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)



* - Design includes Civil/Site, Grading, Stormwater/Drainage, Erosion/Sediment Control, Water Treatment, Water Lines, Temporary/Permanent Access

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Milne, Robert R., P.E. Regional Office Manager	<1	35	17

Brief Explanation of Responsibilities

Regional Office Manager whose design duties include drainage improvements, erosion and sediment control permit applications, E&S plans, ADA ramp design, grading plans, roadway and intersection improvements for access roads, shared use path design, safety studies, pavement design, MPT, signing and pavement marking, utility relocation plans (water, sanitary, and utility poles), cost estimating, and bid package contract development. Projects vary in complexity from $100,000 to $100M in construction costs. Project management duties include scope of work preparation, client coordination, budget management, supplemental contract writing, site and roadway design, drainage design, agency coordination, public involvement, municipal coordination, traffic studies, environmental documentation, and railroad coordination through rails to trails agreements. Relevant projects include:

- **Burcell Technologies, Berkeley County, Martinsburg, WV** – Project Manager responsible for the redevelopment of a 40 ac. +/- waste disposal facility. Responsibilities include site civil design and analysis and permitting.
- **Rockwool Manufacturing Facility, Ranson, WV** – Project Manager responsible for the site/civil design and permitting the development of this 100-acre site.
- **Capon Bridge Business Park, Industrial Access Road, Hampshire County, WV** – Project Manager responsible for the design and permitting for this 500 LF +\- industrial access road.
- **West Virginia University Creative Arts Center Parking Lot Renovations, Morgantown, WV** – Project Manager responsible for the development of construction documents, environmental permitting, and construction oversight to upgrade the Creative Arts Center parking lots from 245 spaces to 362 spaces.
- **City of Morgantown Eighth Street Trailhead, Morgantown, WV** – Project Manager responsible for the development of the construction documents for the Eighth Street Trailhead. Project included a concrete stairway with a wheeling channel to aide in access to the Caperton Trail system in Morgantown, WV.
- **WVDNR Elk River Boating Access Sites, Kanawha County, WV** – Project Manager responsible for the development of construction documents and construction oversight for five new boating ramps along the Elk River.
- **Covenant Christian School Middle School Addition, Morgantown, WV –** Project Manager Responsible for the development of the existing survey using both conventional field surveying techniques and mobile lidar. In addition, oversight of the development of the site design documents consisting of an overall site plan, grading plan, stormwater plan, and utility plan for a proposed 66' X 64' New Middle School Addition.
- **Private Client, Partnership Project with WVDOH District 6, County Road 1 over Pyles Fork, The City of Mannington, Marion County, WV –** QA/QC oversight for the replacement of the existing concrete arch structure. The project also includes roadway work including minor adjustments to the vertical and horizontal profile, and full depth roadway reconstruction near the structure.
- **AR Development, Dollar General, Various Locations, WV** – Project Manager responsible for the development of construction documents for ten proposed Dollar General stores in various locations throughout West Virginia.
- **FBI/DEA Flex Ops Facility, Quantico VA** – Project Manager responsible for the development of the construction documents associated with Phase 1 of this project which included the building shell, running track, grading, drainage, and environmental permitting.
- **Acadia Healthcare, Clearfield, PA** – Civil Task Manager. Satellite Shelters contracted with Stahl Sheaffer to prepare the Land Development Submission for Lawrence County for Acadia Health's proposed 11,840 SF health care facility in Clearfield, PA. Stahl Sheaffer was responsible for the existing site survey, and the development of the site design and land development submission to Lawrence Township.

EDUCATION (Degree, Year, Specialization)

Master of Science, 1999, Civil Engineering, West Virginia University
Bachelor of Science, 1990, Civil Engineering, West Virginia University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 1999, WV #PE014177 Professional Engineer, 2002, PA #PE061465

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
McClellan, Paul, M., P.E., QA/QC	<1	23	11

Brief Explanation of Responsibilities

Director responsible for managing the day-to-day activities for projects of varying complexities. He oversees project teams while ensuring project budgets, project schedules, communication plans are met on projects and agreements. Mr. McClellan is also responsible for the direction of design staff during project delivery. He has extensive experience on state and road transportation projects. He also has experience in managing day-to-day activities of construction projects and supervision of county maintenance forces. Relevant projects include:

- **Hampshire County Elementary Schools, McKinley Architects, Hampshire County, WV** – QA/AC for the completion of civil engineering and design services related to the design of three elementary schools. The project consisted of schematic designs; design development; construction documents; erosion and sedimentation control; stormwater pollution prevention plan; NPDES (National Pollutant Discharge Elimination System), roadway right-of-way, wetland and stream impacts permitting, technical specification, bidding assistance and construction administration. Regulatory agencies include townships, WVDEP, WVDOH (West Virginia Division of Highways), and ACOE (Army Corps of Engineers).
- **Chief Oil & Gas Site Development and Permitting** – Well pad and impoundment design and permitting services for 28 units at locations through northeastern PA. As-built survey, well plat preparation, and water depth table exhibits for approximately 93 locations. Temporary waterline routing and permitting services.
- **Inflection Energy Startup –** This project included four well pads, five impoundments (3-15 Mgal), a road feasibility study, impoundment feasibility study, and water withdrawal feasibility study.
- **Sellars Staging Area, Gamble Township, Lycoming County, PA** – Project Manager for design and permitting services for a new water transfer facility off of Rose Valley Road. Stormwater management design was completed per the Gamble Township Stormwater Management Ordinance and Lycoming County Act 167 Plan. A stormwater consistency verification report was prepared and submitted to Gamble Township for review and approval. An ESCGP-2 permit application was developed and submitted to DEP's Eastern Oil and Gas District Office.
- **Gamble Pad J, Gamble Township, Lycoming County, PA** – Project Manager for design and permitting services for a new well pad and 1,750' access road. Stormwater management design was completed per the Gamble Township Stormwater Management Ordinance and Lycoming County Act 167 Plan. A stormwater consistency verification report was prepared and submitted to Gamble Township for review and approval. An ESCGP-2 permit application was developed and submitted to DEP's Eastern Oil and Gas District Office. Stahl Sheaffer prepared and submitted a highway occupancy permit to PennDOT's District 3-0 office for review and approval.
- **Hemlock Ridge Estates Unit Pad, McNett Township, Lycoming County, PA** – Director responsible for oversight for design and permitting for a new well pad and 650' access road. Stormwater management was completed in accordance to the Lycoming County Act 167 Plan. An ESCGP-2 permit application was developed and submitted to DEP's Eastern Oil and Gas District Office. A complex environmental review and coordination with DEP was required to accurately delineate site environmental features due to the red parent material located in this region.
- **Bradford Regional Airport Industrial Access Road, McKean County (ECMS #106167)** – This ARC-funded project included roadway design services with PennDOT District 2-0 oversight for the design of an 800' access road and three intersecting road spurs to be used for future development.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2001, Civil Engineering Technology, University of Pittsburgh

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2010, PA # 078178

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Popovich, Scott, R., P.E., Senior Vice President	<1	22	20

Brief Explanation of Responsibilities

Senior Vice President for Stahl Sheaffer, Mr. Popovich is responsible for the management of projects and staff involving highway design, traffic studies, maintenance and protection of traffic, traffic signal design, signing and pavement marking plans, highway occupancy permits, transportation impact studies, pedestrian accommodations studies, warrant analysis, safety studies, pavement analysis, and pavement design. Mr. Popovich has both public and private sector experience performing large-scale design projects under aggressive schedules. Mr. Popovich's design experience includes roadway design of existing and new alignments, traffic signal design plans, maintenance and protection of traffic plans, pavement marking and signing plans, ADA compliant curb ramp design, cross sections, and construction contract documents. He is also experienced in report writing and knowledgeable in the preparation of plans, specifications, special provisions, and cost estimates according to PennDOT and Pennsylvania Turnpike Commission standards and plans presentation. Mr. Popovich is experienced in MicroStation, Synchro, HCS, ITE Trip Generation Software, Tab Wizard, and AutoTAB. Relevant projects include:

- **Energy Client, West Virginia Roadway Improvement Initiative** – Overall Project Manager for a $16 Million design project over a 12-month period, which included design, permitting, and right-of-way acquisition of approximately 100 roadway widening and upgrade projects; eight bridge replacement or rehabilitation projects; and numerous geotechnical slide repairs across five WVDOH Districts. Responsibilities included oversight of all projects and a large project team, consisting of a survey group, environmental permitting group, bridge design group, geotechnical group, highway design group, right-of way acquisition group, project scheduler, construction group, and various sub-consultants; extensive coordination with WVDOH; and construction consultation
- **Chevron Appalachia Route Planning and Engineering Services, PA, WV, OH** – Project Manager in charge of overseeing engineering activities associated with Chevron's access routes to well sites and tank pad locations. Planning and engineering tasks included evaluation of various routes to planned sites and determination of the most economical routes to the sites, while also considering overall safety and public relation interests; driveway permit plans and applications; detailed roadway inspections; pavement condition ratings; collection of pavement cores and subgrade testing; pavement analysis; gravel roadway analysis; development of roadway repair and upgrade strategies; preparation of Route Management Plan documents highlighting cost effective routes to the proposed site and associated cost estimates to upgrade or repair the bonded roadways; development of roadway design plans, specifications, and cost estimates; preparation of bid documents; geotechnical testing for Full Depth Reclamation (FDR) roadway reconstruction projects; construction inspection; roadway condition videos; preparation of Heavy User Maintenance Plans, coordination with utility facility owners for utility relocations; and coordination with state and local officials.
- **CNX Gas Company Roadway and Structure Related Engineering Services, PA, WV, OH** – Project Manager in charge of overseeing engineering activities for roadway design projects, bridge replacement projects, driveway permits for well sites, and maintenance responsibilities on bonded state and township roadways. Responsibilities included driveway permits; development of roadway design plans, specifications, and cost estimates; preparation of bid documents; development of bridge replacement plans and associated permitting documents; bridge inspections and structural analysis reports; detailed roadway inspections; pavement condition ratings; collection of pavement cores and subgrade testing; pavement analysis; gravel roadway analysis; geotechnical testing for Full Depth Reclamation (FDR) roadway reconstruction projects; construction inspection; roadway videoing and condition tracking; development of roadway repair and upgrade strategies; preparation of Heavy User Maintenance Plans; and coordination with state and local officials.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2003 Civil Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2008, PA # 075383

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Kline, Kevin, R., P.E., Quality Improvement Manager	<1	43	36

Brief Explanation of Responsibilities

Quality Improvement Manager for Stahl Sheaffer Engineering, Mr. Kline oversees the quality of all project deliverables. He implemented a new Quality Assurance process and works directly with project team members at project onset to develop a PSQAP, specific for each agreement. He oversees the updating of Stahl Sheaffer's Master Quality Plan and facilitates other quality related items such as Project After Action reviews and continuous project quality process improvement initiatives. Mr. Kline joined Stahl Sheaffer in 2017 as a retired District Executive from PennDOT's District 2-0 Engineering Office in Clearfield. He has 35 years of experience within District 2-0 and served as District Executive for 11 years. During his tenure as District Executive, he was responsible for planning, directing, budgeting, controlling, and administering all operations within the District Office and the nine County Maintenance offices encompassing the District 2-0 Region of North Central PA. Mr. Kline's work is characterized by completing all ranges of projects from minor to highly complex and having a wide public impact for all operations in the District. He managed a very large staff of professional, technical, clerical, and administrative employees. The District employs approximately 870 people within the District Office and County Maintenance Organizations. Relevant projects include:

- **Assistant District Executive for Construction for 11 years** – In charge of construction project administration, management, inspection, and documentation; all bituminous and concrete material control for highway and bridge projects within the District. Specifics included oversight and preparation of construction schedules and project analysis (pre-bid and final); constructability reviews of plans and specifications; reviewing, analyzing, and approving large plan revisions and work orders for time and cost; evaluating value engineering proposals; determining staffing assignments and project personnel needs; construction claims review and analysis; attending pre-bid conferences; various statewide task forces and groups affecting industry procedures, and decisions.
- **Stahl Sheaffer Quality Initiative** – Facilitate and work with staff to continuously improve our project standards, plans presentations, quality plan checks and internal website developments.
- **Records Retention Initiative** – Facilitated the development of a Records Retention Policy for the company.
- **Design/Build Initiative** – Coordinated and facilitated Design/Build Standard Operating Procedures and Checklist Development within the company.
- **Bridge Quality Initiative** – Facilitated the completion of a revised quality plan process and guidelines for bridge design projects within the company.
- **DuBois Penn Highlands Hospital Road Reconstruction, City of DuBois, PA** – Served as QA/QC Manager.
- **Greene County SR 3009 Bridge Project, Greene County, PA** – Served as QA/QC Manager and liaison with PennDOT District 12-0 personnel.
- **Clearfield County SR 53 Design/Build Retaining Wall Project, Clearfield County, PA** – Served as QA/QC Manager and liaison with PennDOT District 2-0 personnel.
- **Clearfield County SR 453 Bridge Project, Clearfield County, PA** – Served as QA/QC Manager.
- **SR 56 Bridge & Roadway Project, Bedford County, PA** – Served as QA/QC Manager.
- **U.S. 322, Potters Mills Gap Study & Construction Phasing, Centre County, PA** – Environmental Assessment completed in 16 months, $20 million design costs; $132 million estimated construction costs.
- **Interstate 99 Corridor, Centre County, PA** – Completion of 17.5-mile four lane new corridor; construction cost approximately $264,000,000.
- **U.S. Route 22/322 Lewistown Narrows Project, Mifflin & Juniata Co., PA** – Completion of the 10 mile four-lane relocation and highway bifurcation along Juniata River; construction cost approximately $160,000,000.
- **U.S. Route 22 Lewistown Bypass, Mifflin County, PA** – Completion of the 4.5-mile four lane relocation and Interchange with US 322; construction cost approximately $159,000,000.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 1981 Civil Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 1987, PA # 036685E

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Reed, Jason, Environmental Manager	3	28	14

Brief Explanation of Responsibilities

Manager of Environmental Services. He brings 28 years of natural resource planning, environmental consulting, and permitting experience. As a project manager and environmental scientist, he coordinates with clients and all applicable regulatory and resource agencies to gather the necessary data to effectively manage the completion of all environmental clearance and permitting requirements for projects. His specialties include wetland investigations and delineations, waterways encroachment and obstruction permitting, specification of revegetation material; wetland, stream, and terrestrial habitat creations and restorations; stream surveys, Natural Channel Design, erosion and sediment (E&S) pollution control design, post-construction stormwater best management practices design, NEPA documentation, and threatened and endangered plant surveys. Mr. Reed's relevant experience includes:

- **Private Client, Partnership Project with WVDOH District 4, West Virgina 7 over Miracle Run Bridge Replacement, Monongalia County, WV** – Environmental Specialist for the replacement of the existing two span reinforced concrete deck slab structure with a single span structure. The project also included roadway work including minor adjustments to the vertical and horizontal profile, guiderail replacement, full depth roadway reconstruction, and roadway widening. Duties included completion of a nationwide permit 14 application which included coordination with the USFWS on threatened and endangered species, State Historic Preservation Office coordination regarding cultural resource clearance, performed a wetland identification and delineation including delineation of the ordinary highwater mark, gained approval of 401 Water Quality Certification from WVDEP, and completed a floodplain permit application for review at the County. Additional work included completing bat tree habitat assessments and bat habitat assessment for the structure in accordance with the USFWS assessment format. Approval of the structure assessment was granted by USFWS.
- **Private Client, Partnership Project with WVDOH District 6, U.S. Route 250 over Church Fork Bridge Replacement, Wetzel County, WV** – Environmental Specialist for the replacement of an existing reinforced concrete structure with a staged single span prestressed concrete box beam structure supported on full height abutments. The proposed structure will include various architectural surface treatments, due to the age of the existing structure and the location. A rail trail bridge located adjacent to the existing structure will be removed and incorporated into the proposed structure. The project also includes roadway work including minor adjustments to the vertical profile, a realignment of the horizontal profile including realigning and signalizing a nearby intersection of US 250 and WV 69 to improve safety, and full depth roadway reconstruction near the structure. Duties included completion of a nationwide permit 14 application which included coordination with the USFWS on threatened and endangered species, State Historic Preservation Office coordination regarding cultural resource clearance, performed a wetland identification and delineation including delineation of the ordinary highwater mark, gained approval of 401 Water Quality Certification from WVDEP, and completed a floodplain permit application for review at the County. Additional work included completing bat tree habitat assessments and bat habitat assessment for the structure in accordance with the USFWS assessment format. Approval of the structure assessment was granted by USFWS.
- **Private Client, Partnership Project with WVDOH District 6, West Virgina 20 over Shenango Creek Bridge Replacement, Wetzel County, WV** – Environmental Specialist for the replacement of the existing single span concrete arch structure with a single span structure. The project also included minor adjustments to the vertical and horizontal profile, guiderail replacement, full depth roadway reconstruction, and roadway widening. Duties included the completion of a nationwide permit 14 application which included coordination with the USFWS on threatened and endangered species, State Historic Preservation Office coordination regarding cultural resource clearance, performed a wetland identification and delineation including delineation of the ordinary highwater mark, gained approval of 401 Water Quality Certification from WVDEP, and completed a floodplain permit application for review at the County. Additional work included completing bat tree habitat assessments and bat habitat assessment for the structure in accordance with the USFWS assessment format. Approval of the structure assessment was granted by USFWS.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 1996, Environmental Resource Management, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Weigand, Sarah, Environmental Permitting	<1	16	4

Brief Explanation of Responsibilities

Environmental Permitting Professional with over 16 years of experience in permitting, dedicated to driving efficiency and compliance within environmental projects. Proven track record of leading high-performing teams and developing effective management strategies, while balancing full-time work with academic pursuits. Expertise includes project management, analytical thinking, and fostering interpersonal communication. Committed to becoming a reliable subject matter expert in environmental permitting, seeking an engaging team environment that values collaboration and professional growth. Strives to leverage skills in GIS and project management to deliver impactful solutions. Relevant experience includes:

- **Manager, Permitting Services, CNX Gas Company LLC, Canonsburg, PA** - In the role of Manager for Permitting Services at CNX Gas Company LLC, oversight of the permitting process for various projects has been a primary responsibility. This position involves ensuring compliance with environmental regulations and coordinating with multiple stakeholders to obtain necessary permits for operations. Additionally, strategic management of project timelines and resources is crucial to facilitate efficient workflow and minimize delays.

- **Permitting & Regulatory Compliance**
  - **State Expertise:**
    - Pennsylvania – *Expert-level knowledge*
    - West Virginia – *Proficient*
    - Ohio – *Intermediate*
  - **Regulatory Submissions** – Varrying degrees of mastery in scheduling, monitoring, reviewing, and submitting documentation for:
    - Area of Review (AOR)
    - Water Sampling Programs
    - Drill Permits (including modifications, renewals, plats, mailings, and data layer packages etc.)
    - Abandoned Well Adoption & Well Bonding
    - Inactive Status Requests and Returning to Active Status
    - ESCGP/NPDES Permits
    - Sewage Tank Permits (SEO coordination, terminations, and refund recovery)
    - On-Site Processing (OG71a & OG71b authorizations)
    - Water Management Plans (including JPA and GP4 permits)
    - Conditional Use & Township Zoning (preparation, presentation, and meeting attendance)
    - WMGR123 Waste Storage Permits
    - Road Agreements (new, renewals, terminations)
    - PennDOT Submissions (M-4902APP, Heavy Use Maintenance Plans)
    - PAFBC Drawdown Permits

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2019, Business, Dual Emphasis on Management & Marketing, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	OSHA Certified Environmental Specialist, 2025, U.S.

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brown, Steven, GISP, GIS Systems Engineer	<1	19	12

Brief Explanation of Responsibilities

GIS Systems Engineer with extensive experience in ESRI ArcGIS Product Suite, GIS Feature Data QA/QC and Project Management, Development Activity Management and GIS Development. He has implemented several aspects of Esri's software (ArcGIS Sites, Portal for ArcGIS, Web App Builder) and third-party hardware/software (Spike Camera and custom python scripting) to help facilitate information from Stahl Sheaffer field crews to managerial staff in the office. This workflow decreases time spent collecting then re-entering data manually into a database with an application that leverages real-time syncing. Information throughput increased significantly by making data readily consumable as soon as it was submitted by the field crew. By implementing several aspects of the Esri suite, Mr. Brown implemented a web-based job scheduling application that enables managers to schedule work by uploading tasks and assigning start/due dates. field crews are able to acquire daily/weekly workloads using a phone or tablet. This has resulted in greater project efficiency. Relevant projects include:

- **Seneca Notice of Termination (NOT) Site Deficiency Collection** – Using Esri's software (Survey123 and Workforce for ArcGIS), Mr. Brown created a workflow which allowed for a streamlined process for staff to take a survey of a site. Staff were able to acquire tasking, perform a site survey, and upload their survey to the database all through a mobile device. As staff would submit a survey using Esri's Survey123, the information would become readily available to other managers and engineers resulting in increased throughput.
- **CNX/EQT Roadway Management Esri's Collaborator/Dynamic Delivery** – Mr. Brown has implemented the use of Esri's Collaborator to efficiently exchange data between Stahl Sheaffer and our client in near real time. This added value as the throughput of information increases significantly between client and contractor. As a result, analysis and decisions can be completed in less time, reducing billable hours.
- **Federal Contract - Digital Terrain Model Editing** – Led terrain editing project to a 100% first-time right in his role as a Technical Lead (QA/QC Lead, Project Lead) under an eight-year Federal contract.
- **Federal Contract - Feature Data Extraction** – Led feature data project resulting in a significant improvement for maintaining an exception rating in his role as a Technical Lead (QA/QC Lead) under an eight-year Federal contract.
- **Federal Contract - Feature Data, Terrain Editing, Imagery Products** – Created QA/QC process to reduce production time and improve data integrity in his role as a GIS Solutions Engineer under a five-year Federal contract.
- **Treasure Lake Property Owner's Association (TLPOA) Roadway Management System** – Developed an enterprise GIS system to track roadway defects and roadway improvement information. This GIS system provides information to the TLPOA Roadway Management System web application viewable by our engineers as well as by the TLPOA personnel.
- **The Pennsylvania State University Roadway Infrastructure Maintenance** – Through customizing Esri Web applications, Mr. Brown has increased the GIS technical capabilities within the Roadway Asset Management system developed for Penn State that encompasses all roadways and parking lots owned by the University. The data collected is used to provide ongoing condition assessment and prioritization of maintenance projects. With these custom tools, the engineers can complete tasks that once had to be ticketed for tasking to the GIS department. This enhancement has drastically reduced billed hours and increased throughput of information. By utilizing Esri's ArcGIS Sites, Mr. Brown has built intuitive webpages for the team to easily access GIS content related to the project.

EDUCATION (Degree, Year, Specialization)

Bachelor of Arts, 2005, GIS, University at Buffalo
Associate, 2000, Architecture/AutoCAD, Erie Community College

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	GISP – Geographic Information Systems Professional, 2020, U.S.

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Vaow, Michael, Environmental Project Manager	7	20	20

Brief Explanation of Responsibilities

Project Manager at Stahl Sheaffer responsible for various engineering projects including land development, stormwater management, erosion and sediment control planning, and environmental permitting. Duties include preparation, oversight, and review of plans and reports and monitoring of the design schedule and budget to keep clients abreast of any issues or problems that may have an impact on the project. He is also responsible for the direction of CAD support staff for plan preparation. Mr. Vaow has 20 years of experience in project management, site design, and environmental consulting and permitting. Relevant projects include:

- **River Hill Coal Company, Inc. – Greenridge #1 Operation, West Wheatfield Township, Indiana County** - GFCC Permit - Remining and reclamation of 100 acres of abandoned highwall including three seams. Permitting involved overburden drilling and analysis, water quality sampling including private water supply categorization and inventory, wetland delineation and mitigation and E&S design.
- **Bell Resources – Marshall Ridge #2 - AML Restoration Design, CAD** – Plans and permit modules completion, Background Watersampling, Geologic sections, Wetlands delineation.
- **P&N Coal Company – West Slab GFCC Permit – Wetlands delineation, CAD** – Plans and permit modules completion, Background Water Sampling, Geologic sections, private water supply investigation.
- **P&N Coal Company – Susan GFCC Permit – Wetlands delineation, CAD** – Plans and permit modules completion, Background water sampling, Geologic section, private water supply investigations.
- **Alverda Enterprises** – **Graceton Pile GFCC Permit – Surveying, Wetlands delineation, CAD** – Plans and permit modules completion, Background water sampling, Geologic sections, private water supply investigations.
- **Graymont - Pleasant Gap Plant** – Deep Mine Portal Seal Design. Survey, CAD.
- **OSM – Sugar Camp Run Treatment System Jefferson County** – AMD Treatment Design and Bidding and Contract Management.
- **OSM – Soldier Run Treatment Facility Jefferson County** – AMD Treatment Design.
- **OSM – Sykesville Mine Pool Treatment Facility Jefferson County** – AMD Treatment Design and Cost Estimate.
- **E.M. Brown – Winburne AMD Site** - Water Sampling, Water quality Review and Report.
- **MP 110.15 to 123.65 Shoulders & Slopes, Pennsylvania Turnpike Commission** – Completed environmental review, clean fill certification, and visual inspection of the Turnpike prior to earth disturbance activities to assess the environmental risk of the project.
- **Oil & Gas Site Plugging Permitting, CNX, Various Locations, PA** – Completed plugging pad and access roadway design and permitting services for multiple locations throughout PA.
- **Chapter 78 Permit Renewals, Minor and Major Modifications, Confidential Energy Clients, PA** – Projects included well pad design revisions, stormwater management design, E&S design, and site restoration design for various energy clients across PA.
- **Consumptive Use Withdrawals, Confidential Energy Client, PA** – Designed several large withdrawals from the Susquehanna and Ohio River Basins. He also conducted HOP, NPDES, SLLA, JPA, SRBC registration, and metering plans.
- **Oil & Gas Site Development & Permitting, Confidential Energy Clients, Various Locations, PA** – For multiple energy clients, provided wetlands/streams delineation, well pad design, stormwater design, E&S design, site restoration design and permitting services, SPCC plans, Chapters 78, 102, and 105 permitting, as-built survey and well plat exhibits, temporary waterline routing and permitting, and access road/entrance upgrades and HOPs for well site traffic.
- **Commercial & Industrial Land Development & Permitting, Multiple Clients, Various Locations, PA** – For multiple developers, provided wetlands/streams delineation, site layout, stormwater design, E&S design, stormwater design, quantity-take-offs, and permitting services. Regulatory agencies include townships, county conservation districts, PADEP, PennDOT, and ACOE.

EDUCATION (Degree, Year, Specialization)

Bachelor of Arts, 2005, Environmental Studies, University of Pittsburgh

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Baughman, Jeffery, R., P.E., Civil Project Manager	<1	24	4

Brief Explanation of Responsibilities

Project Manager for Stahl Sheaffer Engineering assisting with project engineering for transportation related projects. His responsibilities include preparing and reviewing plans and reports, monitoring design schedules and budgets, and directing engineers and design staff for plan preparation and project assignments. In addition to the primary responsibilities listed above, Mr. Baughman has most recently worked as a Project Manager on transportation projects in PennDOT District 2-0 in Clearfield and District 9-0 in Hollidaysburg. Project scopes of work included highway and drainage projects and bridge projects. Project management duties included scope of work preparation, budget management, consultant oversight, highway design, agency coordination, public involvement, municipal coordination, utility coordination, historical investigations, traffic studies, environmental documents and maintenance and protection of traffic design. Relevant projects include:

- **Oil & Gas Pad Development for Greylock Energy, Greene County, PA** – Project Manager for Anderson pad design. Scope of work for each project included wetland and stream delineation, E&S design, stormwater design including Chapter 102 and Chapter 105 permitting, site design including ESCGP permitting, noise abatement, access road upgrades, and highway occupancy permits.
- **Oil & Gas Pad Development for EOG Resources, Various Locations, OH** – Project Manager for 2 well pad design projects. Scope of work for each project included, but not limited to, wetland and stream delineation, geotechnical investigation, E&S design, stormwater design, site design, and highway occupancy permits.
- **Oil & Gas Pad Development for Seneca Resources, Various Locations, PA** – Project Manager for 2 well pad design projects. Scope of work for each project included wetland and stream delineation, E&S design, stormwater design including Chapter 102 and Chapter 105 permitting, site design including ESCGP permitting, pipeline design and permitting, and access road upgrades.
- **Oil & Gas Pad Development for EOG Resources, Various Locations, PA** – Project Manager for more than 40 well pad design projects that included technical specialists in environmental permitting, water resources, construction, and land that was directly responsible for planning, engineering, permitting, and construction. Scope of work for each project included, but were not limited to, wetland and stream delineation, E&S design, stormwater design including Chapter 102 and Chapter 105 permitting, site design including ESCGP permitting, SPCC plans, as-built surveys, temporary waterline routing and permitting, access road upgrades, and highway occupancy permits.
- **Oil & Gas Pipeline Development for EOG Resources, Various Locations, PA** – Project Manager for the design of approximately 18 miles of pipeline with 100 MMcfd capacity to gather 50 wells. Scope of work for each project included wetland and stream delineation, E&S design, stormwater design including Chapter 102 and Chapter 105 permitting, ESCGP permitting, highway occupancy permits, and as-built surveys. Also responsible for the design and preparation of the engineering drawings and details associated with each pipeline.
- **Oil & Gas Facility Development for EOG Resources, Elk and Bradford Counties, PA** – Project Manager for two compressor station projects capable of moving 50 MMcfd of natural gas. Scope of work for each project included wetland and stream delineation, E&S design, stormwater design including Chapter 102 and Chapter 105 permitting, site design including ESCGP permitting, air permitting, highway occupancy permits, and as-built surveys. Also responsible for the design and preparation of the engineering drawings and details for the mechanical, electrical, and piping associated with each.
- **SCI Benner Bus Maintenance Facility, Benner Township, Centre County, PA** – Project Manager for the site design of a bus maintenance facility on a one-acre portion of the SCI Benner prison complex. Stahl Sheaffer was the site and structural engineer on the design team and provided site layout, grading, stormwater management, utility design, and closely coordinated with the PA Department of General Services, SCI Benner, the architect, and engineers (MEP, structural, site, geotechnical). Work also included obtaining permits for E&S, stormwater, zoning, and building.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2001, Civil Engineering, Bucknell University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2015, PA # 083227

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Kweder, Nicholas, EIT, Civil Project Engineer	<1	7	7

Brief Explanation of Responsibilities

Senior Designer for Stahl Sheaffer Engineering assisting with site design, stormwater management, site grading, and erosion control services provided to various private and public clients. He is also experienced in report writing and knowledgeable in the preparation of plans, specifications, and estimates. Mr. Kweder is experienced in AutoCAD Civil 3D, AutoTURN, SSA, express and Hydraflow. Relevant project experience includes:

- **Crescent Residential Development, Cranberry Township, Butler County, PA** – Lead Designer for 150+ acre residential development. 3 Phase development that included lots of single family, townhome and apartment units. Responsible for site design, grading, erosion and sediment control, and permit acquisition at both the municipal and county level.
- **Meeder Residential Development, Cranberry Township, Butler County, PA** – Lead Designer for 50+ acre residential development. Multi-phase development that included lots of single family, townhome and apartment units. Responsible for site design, grading, stormwater management, erosion and sediment control, and permit acquisition at both the municipal and county level.
- **Popeye's/Arby's Fast Food Restaurant Development, Lewisburg, Union County, PA** – Lead Designer for fast food development. Project scope included development of a 1 acre vacant lot for 2 joining restaurants, drive-thru facilities, parking lots, associated utilities and site amenities. Responsible for site design, grading, stormwater management, erosion and sediment control, and permit acquisition at both the municipal and county level.
- **Watson Institute Campus Expansion, Sewickley Township, Allegheny County, PA** – Lead Designer for institution reconstruction and expansion. Project scope included demolition of existing building and reconstruction and expansion of school, re-paving of existing parking lot, construction of new parking facilities, associated utilities and site amenities. Responsible for site design, grading, stormwater management, erosion and sediment control, and permit acquisition at both the municipal and county level.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2017, Civil Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Engineer in Training (EIT), PA

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Haynes, Michael., P.E., SIT, Civil Senior Engineer	<1	22	6

Brief Explanation of Responsibilities

Senior Engineer at Stahl Sheaffer responsible for various engineering projects including highway design, land development, stormwater management, Erosion & Sediment control planning and environmental permitting. Duties include preparation, oversight and review of plans and reports and monitoring the design schedule and budget to keep the project manager abreast of any issues or problems that may have an impact on either one of these items. He is also responsible for the direction of junior engineers and CAD support staff for plan preparation and highway assignments. Mr. Haynes has over 21 years of project management and design experience. Relevant projects include:

- **Baldwin Run Road Improvements, Tioga County, PA – Seneca Resources Company, LLC** – Project coordinator responsible for leading the erosion and sediment control design for the project. The project consisted of 3.6 miles of roadway improvements and approximately 600 feet of new roadway. Roadway widening along with upgraded drainage and PCSM facilities, a structure replacement and a new structure along with full-depth reclamation of the existing roadway.
- **Beechwood B09-I, Cameron County, PA – Seneca Resources Company, LLC** – Project Manager overseeing the design and preparation of an ESCGP-3 permit for the construction of an unconventional well pad along with a 3.5-mile access road including drainage improvements and post construction stormwater management BMPs for the site.
- **Bambino Interconnect Facility, Greene County, PA – Equitrans L.P.** – Project Manager responsible for preparation of site record drawings and final post construction stormwater management certification for the Notice of Termination documentation for an approximately 2.5-mile linear pipeline project for conveying natural gas and fresh water between facility locations. In addition to the installation of the pipeline, the project also included installation of a gravel access road along the right-of-way and 5 infiltration berms and infiltration basin to control stormwater runoff.
- **CDP-1 Facility, Greene County, PA – Equitrans L.P.** – Project Manager responsible for field inspection and post construction stormwater management certification of the as-built data in comparison to the approved design. The project consisted of construction of a compressor station building and pad, access road and valve pad. 5 infiltration berms and 2 infiltration basins were included in the stormwater certification to control runoff from the site.
- **ESCGP Permit Renewals and Modifications – Various Confidential Oil and Gas Clients, PA** – Project Manager and Senior Engineer leading permit renewals and minor/major modifications for more than 20 projects with SSE. The scope of these projects range from simple renewals to complex changes to the pad surface size and layout that often requires redesigning the PCSM facilities with limited space requirements and minimal changes to the original LOD.
- **Hemlock Ridge Estates Unit Pad, Lycoming County, PA – Chief Oil & Gas LLC** – Project Manager responsible for the completion of the ESCGP-3 permit application, post construction stormwater management design and the erosion and sediment pollution control design. The project was located within a watershed with an ACT 167 Stormwater Management plan that required a 70% release rate for the PCSM plan requirements for all storm events.
- **Von Fisher Valve Yard, Washington County, PA – Equitrans L.P.** – Project Manager responsible for preparation of site record drawings and final post construction stormwater management certification for Notice of Termination documentation under a Major Modification for a proposed access drive, valve pad and the associated PCSM facilities for the Mama Bear to M3 pipeline project.
- **Pettit Compressor Station, Greene County, PA – Equitrans L.P.** – Project Manager responsible for preparation of site record drawings and final post construction stormwater management certification for the Notice of Termination documentation under a Major Modification for the construction of a compressor station, access road and wet pond for stormwater management.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2003, Civil Engineering Technology, Pennsylvania College of Technology
Associate of Arts, 2003, Surveying Technology, Pennsylvania College of Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2011, PA #079080 Surveyor in Training (SIT), 2003, PA #ST000569

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Deegan, Jeffrey, J., P.E., Civil Senior Manager	<1	40	37

Brief Explanation of Responsibilities

Senior Manager responsible for facilitating the design and permitting of various facilities for builders, churches, educational institutions and commercial/industrial developers in Pa. and WV. He is also skilled at flood studies, culvert analysis, mass and final grading and the balancing of earthwork. Before joining Stahl Sheaffer Engineering, Mr. Deegan served for 10 years as the Construction & Regulatory Manager at Chief Oil & Gas LLC, a Texas based Corporation with E&P activities concentrated in the Marcellus Shale region of northeastern Pennsylvania. His responsibilities included management/oversite of the permitting and construction of all gas field related infrastructure, including well pads, access roads, water impoundments, intake, and transfer facilities. Prior to Chief, Mr. Deegan spent 27 years with progressive responsibility in the land development field, serving residential, commercial, and industrial developers in all aspects of land development and construction problem solving. Relevant projects include:

- **Marcellus Gas Well Pads (75+), Williamsport, PA Area** – Managed development of pads necessary for drilling from concept through construction and acceptance by DEP.
- **Freshwater Impoundment (4), Williamsport, PA Area** – Managed the development of FWI's (12 MG each, typ.) necessary to facilitate completion activities on wells from concept through construction and acceptance by DEP.
- **Forksville Take Point Facility, Forksville, PA** – Managed the design and redevelopment of an old lumber mill facility into an auto functioning take-point/storage/distribution facility (> 1 billion gallons processed), with office, light fabrication, and warehousing.
- **Fischer Property, Baltimore County, MD** – Project Manager for up-county/large-lot residential subdivision of 14 well & septic lots with a Contech clear-span bridge access.
- **Old Trails, Harford County, MD** – Project Manager for the development of a waterfront townhouse community of 56 homes with a sewage pumping station and archeological permitting and construction impacts.
- **MARK\TRECE, INC., Harford County, MD** – Project Manager for 50,000 sf Commercial/ Industrial Facility with above and below ground stormwater management facilities.
- **MA & PA Heritage Corridor, Harford County, MD** – Project Manager for Phase I development of a rails to trails facility with (2) bridges, and a tunnel.
- **Harford Glen Pond, Harford County, MD –** Project Manager for the design, and construction of a handicapped accessible fishing pond with parking and bridge access.
- **Village of Harpers Choice, Howard County, MD** – Project Manager for the design of 150 lot subdivision adjacent to Hobbits Glen Golf Course, with a 7,000 lf sewer extension.
- **Acrisure Stadium Field Survey, Pittsburgh, PA** – Project Manager for the topographic survey of approximately 2.5 acres of the Acrisure Stadium playing surface and surrounding improvements. This survey was necessary to provide the Steeler's field contractor with an up-to-date survey prior to doing touch-up grading this summer.
- **Anna's House, Harford County, MD** – Project Manager for the design, and construction of two homeless shelter facilities with CDBG funding.
- **Hampshire County Elementary Schools, McKinley Architects, Hampshire County, WV** – QA/QC for civil engineering services for the design of three elementary schools. The project included schematic designs; design development; construction documents; erosion and sedimentation control; stormwater pollution prevention plan; NPDES, roadway right-of-way, wetland and stream impacts permitting, technical specification, bidding assistance and construction administration.
- **Rusty Gate, Sandy Township, PA** – Providing sewer and water design/refinement and QA/QC for the development drawings for a 22-unit apartment development.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 1985, Civil Engineering, West Virginia University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 1990, MD # 17729

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Corder, David, D., P.E., Project Engineer	1	7	7

Brief Explanation of Responsibilities

Mr. Corder has seven years of experience in the oil and gas, mining, and site development Industries. David has experience in designing and implementing erosion and sediment controls, stormwater modeling, permitting, and earthwork design, in WV, OH, and PA. As a Project Engineer for Stahl Sheaffer, Mr. Corder provides permitting and design services provided to various private and public clients. This includes performing CAD work, stormwater calculations / modeling, code / regulations review, and permit preparation. Relevant projects include:

- **Burcell Technologies, Berkeley County, Martinsburg, WV** – Project Engineer responsible for the redevelopment of a 40 ac. +/- waste disposal facility. Responsibilities include site design and Solid Waste Disposal Permitting.
- **West Elementary School, Site Design and Permitting, Hampshire County, WV** – Designer responsible for site design for the proposed school location. Responsible for evaluating the site for appropriate State and National Permits and preparation of said permits for submittal.
- **Center Elementary School, Site Design and Permitting, Hampshire County, WV** – Designer responsible for site design for the proposed school location. Responsible for evaluating the site for appropriate State and National Permits and preparation of said permits for submittal.
- **Chief O&G, Signore Water Transfer Pad, Elkland Township, Sullivan County, PA –** Designer responsible for site evaluation design. Design included pad, Access Road, stockpile, and sediment trap design. E&S plan plans developed in accordance with the PA DEP Standards.
- **Millbrook Marsh, Phase 2 Site Stormwater Evaluation, Centre County, PA –** Designer responsible for Review of evaluation and design of stormwater mitigation BMPs for Phase 2 site construction. Confirmed stormwater events through Hydro CAD to determine stormwater volumes for BMP design. Reviewed and submitted land development plans and letter to the Township.
- **DTE, SGG - Pipeline Slip Repair, Doddridge, Harrison, Lewis, and Braxton Counties, WV –** Project engineer responsible for maintaining active permits and modifications to permits for repair of earthen slips along the SGG Pipeline. Preparation and submission of permits to regulatory agencies.
- **DTE, AGS - Pipeline Slip Repair, Monongalia, Doddridge, Marion, Taylor, Harrison Counties, WV** – Project engineer responsible for maintaining active permits and modifications to permits for repair of earthen slips along the AGS Pipeline. Preparation and submission of permits to regulatory agencies.
- **Williams Midstream, Slip Repair E&S Design, Ohio, Marshal, and Wetzel Counties, WV** – Project engineer responsible for repair of earthen slips along Multiple Pipeline sites (under 5 AC, under 1 AC E&S plans). The Preparation and submission of permits to regulatory agencies and plan sets for construction of E&S controls and BMP's.
- **EQT, Seven Pines Road Upgrades, Marion County, WV** – Project Engineer responsible for site design including design and placement of road widening to allow for Oil and gas related activities in the area along this State Route. Additionally, for coordinating environmental and survey investigations of the area, and final permit package preparation and submission with the governing bodies.
- **Equitrans Midstream, Impoundment NOT, Green County, PA** – Project engineer responsible for reviewing permitted and As-built plans. Then submitting a plan sheet to the regulatory bodies for the approval for Notice of Termination (NOT). This was done with multiple impoundments in Greene County.
- **Route 2, Material Waste Site Feasibility Study, Marshall County, OH** – Project Engineer responsible with designing a valley fill stockpile feasibility design for a 15M CY waste area for construction along State Route 2. The design required environmental delineation of multiple stream beds, design of casing network for each stream bed under the fill material and a storm water retention pond design at the end of the valley down slope form the benched hill material face.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2017, Mining Engineering, West Virginia University
Bachelor of Science, 2017, Civil and Environmental Engineering, West Virginia University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2022, WV #25809

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Webb, Donald, P.E., Project Manager	<1	13	10

Brief Explanation of Responsibilities

Project Manager for Stahl Sheaffer, Mr. Webb is involved with Geotechnical and Transportation-related projects. His experience includes slide evaluation, retaining wall design, full-depth reclamation design, pavement design, roadway improvement, highway occupancy permits, grading, drainage, and stormwater management. Mr. Webb's 14 years of design experience includes slide repair, foundation design, roadway design, cross sections, hydrologic and hydraulic design, stormwater management, and site grading and layout. He is also experienced in report writing and knowledgeable in the preparation of plans, specifications, and estimates. Mr. Webb is experienced in PYWall, Slide2, Microstation, OpenRoads, AutoTURN, HY-8, Hydraflow, and AutoCAD Civil 3D. Relevant project experience includes:

- **Private Energy Client, Grapevine Ridge Drive and Goshorn Woods Road, Marshall County, WV –** Project Manager for the Grapevine Ridge Drive and Goshorn Woods Road project which included full depth reclamation, drainage improvements, and pile and lagging wall design in Marshall County, West Virginia. Responsibilities include the direction of the full depth reclamation, widening and pile and lagging wall design.
- **Private Energy Client, Roadway Evaluation and Design, Various Counties, WV & PA** – Project Manager for the Roadway evaluation and recommendations project which included coring, test pit collection, FDR design and pavement design. Responsibilities include the design of roadway improvements including full depth reclamation, overlay, and base repair of the roadways.
- **WVDOH Green Bag Road, Monongalia County, WV** – Project Engineer for the Greenbag Road project which included roadway relocation, 2 roundabouts, 2 pile and lagging walls, and embankment design. Responsibilities include the design of the roundabouts, roadway geometry, and coordination of pile and lagging wall and embankment design.
- **West Virginia Roadway Improvement Initiative, Various Counties, WV** – Project Engineer for the West Virginia Roadway Improvement Initiative. WVRII includes the upgrading of over 100 roads throughout West Virginia. Responsibilities include the design of roadway improvements including roadway and curve widening, overlay, repairs, and vertical re-profiling of roads.
- **Monroe County Slide Repairs, Monroe County, OH** – Project Engineer for the several slide repair designs in Monroe County Ohio. Responsible for slope stability analysis, retaining wall design, and geotechnical report preparation for several slide repair projects. Slope stability analyses were completed using Rocscience Slide2 software to evaluate the existing slope conditions as well as the proposed pile and lagging walls. Wall design calculations were performed using PYWall software to determine the required pile sizes, lengths, and spacings in order to stabilize the slide areas.
- **Chevron, Otte Pad A, Marshall County, WV** – Project Engineer for the Otte Pad A project which included flexible base repair and curve widening to facilitate oil and gas traffic on Grandview Road in Marshall County West Virginia. Responsibilities include the design of roadway improvements including curve widening, overlay, and base repair of the road.
- **Chevron, Mason Pad A, Marshall County, WV** – Project Engineer for the Mason Pad A project which included roadway improvements and widening to facilitate oil and gas traffic on Cecil Ridge Road in Marshall County West Virginia. Responsibilities include the design of the erosion and sediment control plan.
- **Confidential Energy Client, Trade City Substation, Indiana County, PA** – Project Engineer for the expansion of the Trade City Substation in Indiana County, Pennsylvania. The expansion of the substation included the addition of two access roads, pad and stormwater management facilities. Responsibilities included grading design, stormwater management design, HOP and NPDES permits, and coordination with county and township officials. Provided construction specifications and plans.
- **Confidential Energy Client, Vanville Substation, Berkely County, WV** – Project Engineer for Vanville Substation in Berkely County West Virginia. The project included design and permitting for a half-a-mile access road, substation pad and stormwater management. Responsibilities included layout and grading, stormwater management, NPDES, land development and WVDOH driveway permit. Provided construction specifications and plans.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2011, Civil Engineering, University of Pittsburgh

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2016, PA #085043 Professional Engineer, 2023, MD #62171

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Lansberrry, Devin, P.E., Project Manager	<1	12	12

Brief Explanation of Responsibilities

Project Manager for Stahl Sheaffer, Mr. Lansberry, P.E. is responsible for monitoring project budgets and project schedules, client/subconsultant coordination, and management of design teams for civil engineering projects. Mr. Lansberry is responsible for the day-to-day direction of a CAD support team for plan preparation and design. He has 12 years of engineering experience. Design duties include drainage improvements, NPDES and ESCGP-2 applications, E&S plans, ADA ramp design, grading plans, roadway and intersection improvements for access roads, shared use path design, safety studies, pavement design, MPT, signing and pavement marking, utility relocation plans (water, sanitary, and utility poles), cost estimating, bid package contract development. Projects vary in complexity from $80,000 to $20 million in construction costs. Project management duties include scope of work preparation, client coordination, budget management, supplemental contract writing, site and roadway design, drainage design, agency coordination, public involvement, municipal coordination, traffic studies, environmental documentation, and railroad coordination through rails to trails agreements. Relevant projects include:

- **WVDOH CR 857 Greenbag Road Improvements, Monongalia County, WV** – Project Manager responsible for the day-to-day tasks Greenbag Road, Luckey Lane, Dorsey Ave, and Kingwood Pike for a total distance of 1.65 miles. The project design consists of two roundabouts, roadway realignment, two retaining walls, roadway widening, drainage improvements and stormwater BMPs, utility coordination with 14 companies, utility relocations of gas, water, sewer, and aerial facilities, and the inclusion of pedestrian facilities to provide a complete street.
- **DCNR Tract 007 Roadway Network Engineering Study, Tioga County, PA –** Project included the design of approximately 7.3 miles of township owned roadways as part of an engineering study and present to the client for an informed decision for which route to use for hauling operations. The engineering study involved analyzing the existing pavement structures, intersection widths, box culvert weight limits, slope stability, culvert extensions, and a curve realignment to allow for safer traffic patterns. The various design options and engineering principals, listed above, were developed utilizing guidance from *AASHTO Guide for Design of Highways and Streets* and *AASHTO Guide for Design of Pavement Structures*.
- **City of Erie, McClelland Park Streambank Restoration of McDannell Run, Erie, PA** – Project manager in the prime consultant role responsible for approximately 750' of streambank stabilization design utilizing various stabilization techniques such as rock embankment, step pools, cross vanes, single arm vanes, coir logs, live stakes, and root wads to maintain the natural aesthetics of the existing wooded area. This design was completed on an accelerated design schedule with the notice to proceed provided on February 15th, and the bid package completed by March 30th, to satisfy the *Coastal Zone Grant* criteria as well as the *Greenways, Trails, and Recreation Project (GTRP)* funding requirements.
- **PennDOT District 12-0, SR 3001 User Upgrade Project with Natural Gas User, Aleppo Township, Greene County, PA –** Project manager responsible for the design of a PennDOT District 12-0 Partnership roadway widening project teamed with an Energy Client. The project scope includes mobile LiDAR survey and base map preparation, roadway widening, intersection widening, full depth reclamation (FDR) with chemical stabilization, FDR lab testing and recommendation with AASHTO accredited laboratory, curve study with a ball bank indicator, guiderail study, structural overlay, pipe replacements, signing improvements, embankment stabilization, and E&S controls while completing all proposed work within the legal right-of-way.
- **PennDOT District 12-0, SR 3014 User Upgrade Project with Natural Gas User, Center/Wayne/Franklin Townships, Greene County, PA –** Project manager responsible for the design of a PennDOT District 12-0 Partnership roadway widening project teamed with an Energy Client. The project scope included survey and base map preparation, roadway widening, intersection widening, full depth reclamation (FDR) with chemical stabilization geotechnical analysis with our AASHTO accredited laboratory, pavement recommendations, curve study with a ball bank indicator, guiderail study, structural overlay, pipe replacements, signing improvements, embankment stabilization of three select locations, and E&S controls while completing all proposed work within the legal right-of-way.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2013, Civil Engineering Technology, University of Pittsburgh at Johnstown

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2024, WV #26406 Professional Engineer, 2018, PA #087793

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
McCahan, Matthew, Geotechnical Manager	18	38	30

Brief Explanation of Responsibilities

Geotechnical Manager that oversees the company's current and future geotechnical capabilities. He has 38 years of experience and is responsible for managing the geotechnical engineering efforts on all Stahl Sheaffer geotechnical projects for PennDOT, the Pennsylvania Turnpike, local municipalities, energy companies, and other private clients. Mr. McCahan is also responsible for Stahl Sheaffer's AASHTO accredited materials testing laboratory. This includes managing lab personnel and prioritizing lab assignments for the testing of soils, aggregates, asphalt, cement, and concrete. He has extensive experience in all aspects of geotechnical design and construction; beginning with all preliminary design requirements and submissions through final PS&E, subsurface sampling and testing practices and procedures - including instrumentation, structure foundation design (both Load Factor and LRFD), slope stability and settlement analysis. Prior to joining Stahl Sheaffer, Mr. McCahan was employed by the Pennsylvania Turnpike Commission (PTC) for over 26 years. Most of that time was spent as the assistant to the Geotechnical Engineering Manager. Relevant projects include:

- **West Virginia Roadway Improvement Initiative & WVDOH Roadway Repair Partnership / Mountaineer Express, Various Counties, WV** – Mr. McCahan served as geotechnical project manager for design, construction and QC/QA for 13 Pile and Lagging Walls for the West Virginia Roadway Improvement Initiative (WVRII). Following WVRII, Mr. McCahan performed the same duties for an additional nine (9) Pile and Lagging Walls and 18 Soil Nail Walls for the WVDOH Roadway Repair Partnership / Mountaineer Express. Responsibilities included oversight of geotechnical design, coordination with the West Virginia Department of Transportation, Division of Highways for individual project reviews, reviewing RFI requests from construction, providing direction to contractors, assignment of QC/QC personnel, and coordination and tracking of project schedules.
- **New Baltimore Slide Remediation Project, Pennsylvania Turnpike Commission** – Stahl Sheaffer Construction Project Manager (previously Geotechnical Representative for the Commission). One of the first assignments with the Commission was to develop a monitoring program for this area. For 25 years, Matt has been involved in the surveying, instrumentation and studies performed here; including surface monument surveying, inclinometers, piezometers, time domain reflectometry (TDR), and total station laser surveying. This earthwork project involved the removal and reconstruction of 2.2 million cubic yards of an active landslide along with the removal of an additional 1.7 million cubic yards of material from an adjacent area referred to as the Four Degree Curve.
- **Uniontown to Brownsville Project (Toll 43), Pennsylvania Turnpike Commission** – Geotechnical Representative for the Commission for both design and construction of this 17-mile, $882M project. Produced design guidelines and was involved in all roadway and structure submissions. Worked with the Construction Managers and all section Contractors throughout the construction phase to completion; tested and approved structure foundations; including the 3200-foot, seven span, Monongahela River Bridge. Involved in temporary cut/fill and shoring conditions, identifying and solving stability issues, undercut areas, etc.
- **Mon/Fayette Expressway (Toll 43 - I-70 to SR 51) – Pennsylvania Turnpike Commission** – Geotechnical Representative for the Commission for both design and construction issues for nine of 14 design/construction sections. Responsible for preliminary design through the completion of construction; including the foundation design and construction of the Joe Montana Bridge (Toll 43 over SR 0088, Mingo Creek and the Wheeling & Lake Erie Railroad). This dual structure had a 200 (+) foot steepened embankment and was constructed over active mines (both room and pillar and longwall mining) and an existing slurry pond.
- **Beaver Valley Expressway (Toll 60) and Amos K. Hutchinson Bypass (Toll 66)** – Pennsylvania Turnpike Commission – Assisted in the geotechnical design for all six design / construction sections (Sections 40 – 45) of Toll 60, including the Mahoning River Bridge. In addition to assisting with geotechnical design, was the design liaison engineer for final design on two sections (43 and 44) – handling all aspects of design. Assisted in the geotechnical design for all eight design / construction sections (Sections 70A – 73B) of Toll 66. Was the design liaison for all aspects of design, not just geotechnical, for final design on two sections (43 and 44).

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 1984, Mineral Economics/Geology, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Tomsic, Seth, GIT, Geologist	<1	8	N/A

Brief Explanation of Responsibilities

Geologist at Stahl Sheaffer with eight years of experience as a Geologist for Stahl Sheaffer. As a Geologist, his responsibilities include collection of field data, lab testing, and field inspection. Mr. Tomsic is also a PennDOT Certified Drilling Inspector and working towards becoming a Professional Geologist (2025). Relevant projects include:

- **West Virginia Roadway Improvement Initiative & WVDOH Roadway Repair Partnership / Mountaineer Express, Various Counties, WV** – Mr. Tomsic served as construction inspector overseeing the construction and QC/QA of 12 Pile and Lagging Walls. Seven (7) of the walls were installed as part of the West Virginia Roadway Improvement Initiative (WVRII) and five (5) were installed as part of the WVDOH Roadway Repair Partnership / Mountaineer Express. Mr. Tomsic's largest project was Calhoun CR 16 where he was responsible for the geotechnical investigation for design; and oversaw construction and QA/QC. This location included three (3) interconnected Pile and Lagging Walls and included complex MPT requirements.
- **PennDOT District 2-0, PA SR 53 Emergency Design / Build Landslide Repair** – Mr. Tomsic provided field inspection for an Emergency Design/Build Project for two significant landslides (150 feet and 200 feet) on SR 0053 in Clearfield County, PA. Both walls were Pile and Lagging Walls, utilizing wide flanged, steel piles encased in concrete (caissons); Pile sizes ranged from W 24X102 to 40X215.shafts ranged in diameter from 36 to 54-inches. Pile lengths were up to 35 feet with a maximum exposed wall height of 14 feet. Mr. Tomsic performed field inspection, approving top of rock elevations prior to pile and concrete placement.
- **Monroe County OH, 2019 FEMA Slip Repairs** – Mr. Tomsic has coordinated the geotechnical instigation of 16 slip locations in Monroe County, OH. He solicited estimates and scheduled drilling services, performed drilling inspection, and tracked the processing of the procured samples at our Materials and Testing Laboratory.
- **Equitrans Slide Repair 2020** – Mr. Tomsic performed compaction testing in accordance with ASTM D6938 for numerous slides on Equitrans right-of ways in southern Ohio. Field work included: sample collection, proctors, and inspection/compaction testing.
- **Cameron PA, B09-S Well Pad** – Mr. Tomsic led a team of field personnel for the design of the B09-S well pad. Field work included: test pits, visual soil classification, and supervising Infiltration testing. Other responsibilities included: revising paperwork, daily status updates, and refreshing supplies at multiple locations.
- **Belmont OH, CR 56** – Mr. Tomsic completed geotechnical testing for Full-Depth Reclamation for CR 56 in Belmont, OH. The field work included: Pavement Coring, DCP, Test Pit Collection**.** Mr. Tomsic also completed lab work including sieve analysis, proctors, UCS molds, and Atterberg Limits.
- **Marshall WV, CR21/10** – Mr. Tomsic completed geotechnical testing for slope stability**.** Field work included: split spoon/boring/Shelby tubes collection/inspection, and DCP. Mr. Tomsic also completed lab work including soil and rock classification, soil densities, natural moisture content, liquid limit of soils, plastic limit of soils, and Plasticity Index of soils.
- **Greene PA, RHL-31 Well Pad** – Mr. Tomsic completed geotechnical testing for well pad construction. Field work included: split spoon/boring/Shelby tubes collection/inspection, test pits, and DCP. Mr. Tomsic also completed lab work including soil and rock classification, soil densities, natural moisture content, liquid limit of soils, plastic limit of soils, and Plasticity Index of soils, UCS of rock, and direct shear.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2016, Geology, California University of Pennsylvania

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Geologist in Training (GIT), 2018, PA #GT000344

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Weaver, Jonathan, M., P.E., CBSI, NCTI **Civil Project Manager**	<1	16	N/A

Brief Explanation of Responsibilities

Project Manager with over 16 years of experience responsible for the analysis, design, and inspection of bridges and transportation facilities. Mr. Weaver's technical background includes steel, precast concrete, prestressed concrete, and reinforced concrete design using American Association of State Highway and Transportation Officials (AASHTO), American Institute of Steel Construction (AISC), and American Concrete Institute (ACI) codes. Relevant projects include:

- **Modular Concrete Selenium Treatment System Design Build, West Virginia Surface Mining Client** – Lead Structural Designer responsible for the design of a precast concrete modular water tank. The concrete tank consisted of wall sections and corner sections that could be utilized in various arrangements depending on site requirements. Early design alternatives included HDPE plastic tanks, plastic tanks with a steel exoskeleton, and post tensioned precast concrete trough sections. All design alternatives were looked at from a design, cost, durability, and constructability standpoint to determine the most feasible design. The modular walls were required to be designed to effectively distribute the pressure of the water to the ground without exceeding overturning or sliding resistance of the soil. The various arrangements of the tanks required the modular wall to be designed on a per foot basis. The modular walls were designed within the requirements of the PCI Design Handbook, ACI Building Code, and ASCE 7. In addition to designing the walls to resist the loading applied by water pressure and corresponding soil pressures, concrete crack control needed to be evaluated. The design incorporated additional reinforcement and details to aid in minimizing the presence of cracks in the concrete, which could have adversely affected the ability of walls to retain water. Post design services included working directly with the fabricator in order to design and build steel form work to cast the walls in an efficient and cost-effective manner and reviewing shop drawings for the walls and form work.
- **Selenium Treatment Pumping System Design Build, West Virginia Surface Mining Client** – Lead Designer responsible for the design, layout and specifications for a high-pressure multi-pump water treatment system. The project involved transferring water from the bottom of a four valley fills to the top cut for selenium treatment. Due to the steep terrain and security concerns in the area, the water treatment systems were not able to be located at an elevation lower than the outlets of the detention ponds. Design involved sizing water transfer pipelines, pump sizing, pumping vault layout and design and project specifications. Due to the large volume of water and high head pressure caused by the elevation differential from the pump vault to the pond, several different types of pipe were required to be evaluated, including fiber-reinforced, steel welded linepipe and fused HDPE linepipe. Once a pipe material was chosen, pumps were designed to transfer the water. Pumps were designed to a flow rate that optimized run times but had adequate capacity to pump the required design storm, the largest of these vertical turbine pumps was rated at 1000 gallon per minute at 600 feet of head pressure. Precast reinforced concrete values were designed to house the pumps and electronic equipment. Additional design items required for the pump vault included structural steel design for the pump support system, anti-cavitation measures and foundation design. The private client requested specific material suppliers for the project; material specifications were coordinated with the respective suppliers to reduce costs and installation time.
- **Pennsylvania Department of Environmental Protection (DEP), Bureau of Abandoned Mine Reclamation, Ramsey Run Culvert Construction Project, Phase 1, Indiana County, PA** – Lead Structural Designer performing design activities for replacement of an existing reinforced-concrete pipe culvert manifold as part of an abandoned mine reclamation effort. The replacement structure, a 31 foot long 7-foot clear span precast-reinforced-concrete box culvert, was sized to pass additional flow resulting from an upstream diversion, which redirects treated acid mine drainage into Ramsey Run, a tributary to Black Lick Creek. Tasks include the culvert design and preparation of final plans, specifications, and estimate (PS&E) package. Programs used in design included Load and Resistance Factor Design (LRFD) Box Culvert Design and Rating. Additional consideration was used in design to eliminate the need for shear reinforcement for the top and bottom slabs of the box improving the constructability of the precast culvert.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2008, Civil Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2019, WV # 23495 Professional Engineer, 2015, PA #083660

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Showers, Benjamin, P.E., CBSI, Civil Project Manager	<1	12	6

Brief Explanation of Responsibilities

Project Manager for Stahl Sheaffer with 11 years of experience, Mr. Showers' responsibilities include performing plans preparation, structural design and inspection, roadway design and inspection, cost estimates, and hydrologic/hydraulic analysis. He has extensive experience performing preliminary inspections, acquiring permits, and roadway monitoring for oil and gas clients on state and local roadways. He has completed roadway testing and sampling such as extracting core samples, conducting Dynamic Cone Penetrometer tests, and infiltration testing. He has experience completing bridge and roadway design and inspection projects and DEP Permitting for PennDOT, the DCNR, local municipalities and counties, and the private sector. Mr. Showers is knowledgeable and experienced with PennDOT Design Manuals, Standards, plan development, bridge inspection, and hydrologic/hydraulic analysis methods and software. Relevant projects include:

- **Morris Township Roadway Slides, Greene County, PA** – Designer involved with structural design of timber pile and lagging retaining wall which supports an active soil slide on both Simpson Chapel Road and Bradbury Road.
- **DNCR Bridge & Culvert Replacement Projects, Various Counties, PA –** Designer for H&H design, E&S control design, structural design, plan preparation, and cost estimates for bridges and box culverts in various State Forests and State Parks. These projects involved design and cost estimates for removal of existing structures and construction of replacement structures. Projects include: Right Asaph Road over Asaph Run Arch Culvert, North Wolf Rock Road over Town Line Run Box Culvert, Coon Run Road over Swamp Branch Box Culvert, Cove Road over White Deer Hole Creek Arch Culvert, Crowley Run Road over Crowley Run Box Culvert, Stony Run Road (Union Co.) over Stony Run Bridge, Stony Run Road (Centre Co.) over Stony Run Box Culvert, Narrow Gauge Trail over Horse Valley Run Bridge, State Line Road over Panther Run Bridge, and Cooper Mill Road over Spruce Run Bridge, Bear Gap Trail over Bear Gap Run Box Culvert, two box culverts carrying Greenlick Road over Little Greenlick Run, Red Ridge Road over Windfall Run Concrete Arch Culvert, Headwaters Haul Road over Blacklog Creek Box Culvert, Pine Ridge Road over Tributary to Spruce Run Box Culvert, Bower Mountain Road over Chestnut Run Metal Arch Culvert, Sugar Camp Road over Rattlesnake Run Metal Arch Culvert, Montgomery Trail over Trout Run Bridge, two superstructure replacement projects carrying Bear Meadows Road over Galbraith Gap Run, Cowpens Road over Laurel Run Bridge, Stony Run Road over Stony Run GRS-IBS Bridge, three box culverts carrying Glade Road over multiple streams, Wykoff Road over Wykoff Branch Box Culvert, Cattaragus Road over Crowley Run Box Culvert, multiple box culverts carrying the Youghiogheny Bike Trail, Reservoir Road over Upper Three Runs Box Culvert, and Bear Run Road over Bear Run Box Culvert.
- **T-314 Arroyo Road over Beech Bottom Run, 16' x 9' R.C. Box Culvert, Elk County, PA –** Designer involved with hydraulic and hydrologic design, erosion and sedimentation control design, structural design, and plan preparation of an R.C. Box Culvert. Design involved calculating quantities for removal of the existing structure and construction of replacement structure. Project also involved classification and permitting of the stream, guiderail design, and using PennDOT's BXLRFD design program.
- **T-314 Arroyo Road over Lake City Run, 14' x 9, R.C. Box Culvert, Elk County, PA –** Designer involved with hydraulic and hydrologic design, erosion and sedimentation control design, structural design and plan preparation of an R.C. Box Culvert. Design involved calculating quantities for removal of the existing structure, and construction of replacement structure. Project also involved classification and permitting of the stream, guiderail design, and using PennDOT's BXLRFD design program.
- **T-314 Arroyo Road over Crow Run Bridge, 20' x 9' R.C. Box Culvert, Elk County, PA –** Designer involved with hydraulic and hydrologic design, erosion and sedimentation control design, structural design and plan preparation of an R.C. Box Culvert. This design involved calculating quantities for removal of the existing structure, and construction of the replacement structure. The project also involved classification and permitting of the stream, guiderail design, and using PennDOT's BXLRFD design program.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2014, Civil Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2020, PA #091790

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Sullivan, Derek, P.E., Civil Project Engineer	<1	9	5

Brief Explanation of Responsibilities

Project Manager for Stahl Sheaffer with 11 years of experience, Mr. Showers' responsibilities include performing plans preparation, structural design and inspection, roadway design and inspection, cost estimates, and hydrologic/hydraulic analysis. He has extensive experience performing preliminary inspections, acquiring permits, and roadway monitoring for oil and gas clients on state and local roadways. He has completed roadway testing and sampling such as extracting core samples, conducting Dynamic Cone Penetrometer tests, and infiltration testing. He has experience completing bridge and roadway design and inspection projects and DEP Permitting for PennDOT, the DCNR, local municipalities and counties, and the private sector. Mr. Showers is knowledgeable and experienced with PennDOT Design Manuals, Standards, plan development, bridge inspection, and hydrologic/hydraulic analysis methods and software. Relevant projects include:

- **Morris Township Roadway Slides, Greene County, PA** – Designer involved with structural design of timber pile and lagging retaining wall which supports an active soil slide on both Simpson Chapel Road and Bradbury Road.
- **DNCR Bridge & Culvert Replacement Projects, Various Counties, PA** – Designer for H&H design, E&S control design, structural design, plan preparation, and cost estimates for bridges and box culverts in various State Forests and State Parks. These projects involved design and cost estimates for removal of existing structures and construction of replacement structures. Projects include: Right Asaph Road over Asaph Run Arch Culvert, North Wolf Rock Road over Town Line Run Box Culvert, Coon Run Road over Swamp Branch Box Culvert, Cove Road over White Deer Hole Creek Arch Culvert, Crowley Run Road over Crowley Run Box Culvert, Stony Run Road (Union Co.) over Stony Run Bridge, Stony Run Road (Centre Co.) over Stony Run Box Culvert, Narrow Gauge Trail over Horse Valley Run Bridge, State Line Road over Panther Run Bridge, and Cooper Mill Road over Spruce Run Bridge, Bear Gap Trail over Bear Gap Run Box Culvert, two box culverts carrying Greenlick Road over Little Greenlick Run, Red Ridge Road over Windfall Run Concrete Arch Culvert, Headwaters Haul Road over Blacklog Creek Box Culvert, Pine Ridge Road over Tributary to Spruce Run Box Culvert, Bower Mountain Road over Chestnut Run Metal Arch Culvert, Sugar Camp Road over Rattlesnake Run Metal Arch Culvert, Montgomery Trail over Trout Run Bridge, two superstructure replacement projects carrying Bear Meadows Road over Galbraith Gap Run, Cowpens Road over Laurel Run Bridge, Stony Run Road over Stony Run GRS-IBS Bridge, three box culverts carrying Glade Road over multiple streams, Wykoff Road over Wykoff Branch Box Culvert, Cattaragus Road over Crowley Run Box Culvert, multiple box culverts carrying the Youghiogheny Bike Trail, Reservoir Road over Upper Three Runs Box Culvert, and Bear Run Road over Bear Run Box Culvert.
- **T-314 Arroyo Road over Beech Bottom Run, 16' x 9' R.C. Box Culvert, Elk County, PA** – Designer involved with hydraulic and hydrologic design, erosion and sedimentation control design, structural design, and plan preparation of an R.C. Box Culvert. Design involved calculating quantities for removal of the existing structure and construction of replacement structure. Project also involved classification and permitting of the stream, guiderail design, and using PennDOT's BXLRFD design program.
- **T-314 Arroyo Road over Lake City Run, 14' x 9, R.C. Box Culvert, Elk County, PA** – Designer involved with hydraulic and hydrologic design, erosion and sedimentation control design, structural design and plan preparation of an R.C. Box Culvert. Design involved calculating quantities for removal of the existing structure, and construction of replacement structure. Project also involved classification and permitting of the stream, guiderail design, and using PennDOT's BXLRFD design program.
- **T-314 Arroyo Road over Crow Run Bridge, 20' x 9' R.C. Box Culvert, Elk County, PA** – Designer involved with hydraulic and hydrologic design, erosion and sedimentation control design, structural design and plan preparation of an R.C. Box Culvert. This design involved calculating quantities for removal of the existing structure, and construction of the replacement structure. The project also involved classification and permitting of the stream, guiderail design, and using PennDOT's BXLRFD design program.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2016, Civil Engineering, University of Mount Union

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2020, PA #091790

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Shaffer, Chad, PLS, Project Manager / Survey Manager	<1	35	30

Brief Explanation of Responsibilities

Project Manager who is responsible for land surveying of public and private projects including highway projects, right-of-way plans, utility plans, and highway occupancy permits. Specific responsibilities include performing technical design, conducting deed and right-of-way research, directing staff technicians, managing project progress, and preparing proposals. He has extensive experience in the PennDOT Highway Occupancy Permitting process, PennDOT Right-of-Way plan development, land development, local ordinances, stormwater management, erosion and sedimentation control plan preparation, and NPDES permitting. Prior to joining Stahl Sheaffer, Mr. Shaffer was a Project Manager for RJ Fisher and Associates, Inc. for 20 years. Relevant projects include:

- **Burcell Technologies, Berkeley County, Martinsburg, WV** – Survey Project Manager responsible for the boundary and topographic survey for the redevelopment of a 40 ac. +/- waste disposal facility. Responsibilities include site civil design and analysis and permitting.
- **WVDOT – DOH Greenbag Road, Monongalia County, WV** – Survey Project Manager for a traffic improvements to Greenbag Road. Along with placed and surveyed in control chevrons, Stahl Sheaffer's Reality Capture team used the Leica Pegasus:Two to scan two miles of the two-lane road, along with three intersecting roads. Supplemental survey ensured all basemap features beyond LiDAR limits were accounted for, and the scans were processed to produce a MicroStation existing planimetric basemap and two-foot grid DTM surface from the point cloud.
- **Interstate 81 - Mobile LiDAR Mapping Project, Luzerne County, PA** – Survey Project Manager for a 15.5-mile section of Interstate 81 which included survey grade high-resolution mobile LiDAR point cloud data tied to horizontal survey control with the Leica Pegasus:Two system along the project corridor. Horizontal control was set and surveyed by Stahl Sheaffer. Horizontal control was tied to the Pennsylvania 1983 North State Plane Datum. Vertical control was based on GPS only.
- **PA Turnpike Commission New Baltimore Slide, Somerset County, PA** – Survey Project Manager for a project where Stahl Sheaffer placed and surveyed in control chevrons and used the Leica Pegasus:Two to scan four lanes east- and west-bound of the Pennsylvania Turnpike. The scans were then processed to produce a MicroStation existing planimetric basemap and a two-foot grid DTM surface from the point cloud.
- **Interstate 475, Lucas County, OH** – Survey Project Manager for a project where Stahl Sheaffer used the Leica Pegasus:Two to scan six miles of I-475 in Toledo, including the four main lanes, 12 on-and-off ramps, and additional side roads. The scans were then processed to produce a MicroStation existing planimetric basemap and a DTM surface from the point cloud. Supplemental survey was included in the basemap to include all features beyond the LiDAR range**.**
- **Pennsylvania Turnpike Commission Blue-Kitt Tunnels, Franklin County, PA** – Survey Project Manager for a project where Stahl Sheaffer's Reality Capture team used the Leica Pegasus:Two to scan four miles of the Pennsylvania Turnpike going through the Blue-Kitt tunnels, east- and west-bound. To ensure data accuracy, the Survey team placed chevrons, used a traverse control network, and ran levels beforehand. The resulting point cloud was processed to produce a MicroStation existing planimetric basemap, DTM, and cross-section diagrams of tunnel wall joints. Supplemental survey was included in the basemap to include all features beyond the LiDAR range.
- **Route 74 Repaving/Reconstruction Project, Perry County, PA** – Project surveyor for a 1.5-mile repaving/reconstruction project, responsible for construction layout and calculations for portions of Route 74 that were reconstructed due to steepness, drainage problems, etc. Also responsible for the Type C surveying of the repaved sections of Route 74.
- **East Buffalo Township, Fairgrounds Road Signal Improvement, Union County, PA** – Survey Manager for traffic signal upgrades at the Fairgrounds Road and Route 45 intersection and improvements to the Buffalo Valley Rail trail crossing. Provided topographical and right-of-way survey along with right-of-way and alignments stakeouts.
- **EQT Greene County Partnership Projects, Greene County PA** – Survey Manager for over 15 miles of roadway improvements, responsible for topographical, right-of-way and boundary survey along the roadway corridors.

EDUCATION (Degree, Year, Specialization)

Associate of Science, 1990, Civil Engineering Technology, Pennsylvania College of Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Land Surveyor (PLS), 2024, WV #2472 Professional Land Surveyor (PLS), 2003, PA #SU060672

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 8
Copelli, Greg, PLS, Survey Project Coordinator	<1	9	

Brief Explanation of Responsibilities

Project Coordinator who is responsible for land surveying of public and private projects including highway projects, right-of-way plans, utility plans, and highway occupancy permits. Specific responsibilities include performing technical design, conducting deed and right-of-way research, directing staff technicians, managing project progress, and preparing proposals. He has extensive experience in the PennDOT Highway Occupancy Permitting process, PennDOT Right-of-Way plan development, land development, local ordinances, stormwater management, erosion and sedimentation control plan preparation, and NPDES permitting. Prior to joining Stahl Sheaffer, Mr. Shaffer was a Project Manager for RJ Fisher and Associates, Inc. for 20 years. Relevant projects include:

- **Montandon Development / Montandon SR 45 Road Improvements** – Professional Land Surveyor responsible for processing supplemental field data, preliminary design utility coordination, processing OPUS Solutions, and QA/QC of the control network throughout the project to ensure accuracy standards were met. Processed data to create a base map of the project AOI to be viewed in 2D or 3D formats, created centerline alignments based on PennDOT Right-of-Way Plans and SLDs, completed boundary calculations to resolve exterior boundary line in preparation for subdivision/land development plans, completed subdivision plan. Completed office work for project.
- **T-382 (Breck Road) over Pentz Run Bridge Replacement** – Professional Land Surveyor responsible for processing all field data, preliminary design utility coordination, processing OPUS Solutions, and QA/QC of the control network throughout the project to ensure accuracy standards were met. Performed QA/QC and adjustments of field data in AutoCAD Civil3D, then created a base map of the project AOI in Open Roads Designer to be viewed in 2D or 3D formats, created centerline alignments based on best fitting existing centerline geometry and information provided by Sandy Township, and built in boundary information from all deeds affected in the project to complete a property mosaic. Completed all field work and office work for project.
- **EQT US Route 250 Over Church Fork Bridge Replacement** – Surveyor responsible for processing all field data, preliminary design utility coordination, processing OPUS Solutions, and QA/QC of the control network throughout the project to ensure accuracy standards were met. Performed QA/QC and adjustments of field data in AutoCAD Civil3D, then created a base map of the project AOI in Open Roads Designer to be viewed in 2D or 3D formats, created centerline alignments based on best fitting existing centerline geometry and information provided by the WV DOH and built in boundary information from all deeds affected in the project to complete a property mosaic. Completed office work for project.
- **EQT WV 7 over Miracle Run Bridge Replacement** – Surveyor responsible for processing all field data, preliminary design utility coordination, processing OPUS Solutions, and QA/QC of the control network throughout the project to ensure accuracy standards were met. Performed QA/QC and adjustments of field data in AutoCAD Civil3D, then created a base map of the project AOI in Open Roads Designer to be viewed in 2D or 3D formats, created centerline alignments based on best fitting existing centerline geometry and Right-of-Way Plans provided by the WV DOH and built in boundary information from all deeds affected in the project to complete a property mosaic. Also built in Railroad Right-of-Way based on Valuation Maps obtained from the Railroad. Completed office work for project.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2016, Surveying Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Land Surveyor (PLS), 2022, PA #SU075707

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 34
Bond, David, Survey Party Chief	<1	36	

Brief Explanation of Responsibilities

Survey Party Chief for Stahl Sheaffer Engineering with 36 years of experience, Mr. Bond is responsible for land surveying for public and private projects that include property line surveys, subdivision surveys, as-built surveys, Alta surveys, construction stakeout, level runs, deed research, deed plotting, line work drafting, field downloads and uploads to data collectors, and GPS surveys. He has experience in highway topography, cross sectioning surveys, bridge surveys, and wetland locations.

Prior to joining Stahl Sheaffer, Mr. Bond worked as a Survey Party Chief for Larson Design Group, where his duties included managing two to five-person field crews with project experience in various natural gas surveys for gas pipelines, well sites and water extraction sites, wind farm production sites, PennDOT bridge surveys, wetland locations, and numerous surveys for PADEP and PennDOT. In addition, he worked as a Survey Crew Chief for Light-Heigel & Associates for seven years, and a Survey Technician for Burch Associates for nine years. Relevant projects include:

- **Pennsylvania Department of Environmental Protection (PA DEP**) – Project Surveyor for a cross-section location survey for storm sewer replacement and stakeout in Upper Dublin, PA. Lead Surveyor for cross-section topography and as-built survey of river sediment in Pittston, PA and sediment in Little Fishing Creek Bloomsburg. Mr. Bond is also a Project Surveyor for water retaining bank and walls cross-section topo and creek cross-section topo in Duryea, PA.
- **Various Natural Gas Clients** – Various property and subdivision surveys, stakeout of centerline and right-of-way, access roads, bore and stringing areas for over 200 miles of gas pipelines, topography and stakeout of well sites, roads, and water extraction sites. Property location surveys of over 100 gas well plat lateral lines. As-built surveys of over 100 miles of existing gas pipelines, gas well pads, and water extraction sites. Gas pad restoration and reclamation surveys and stakeout, stormwater topography, and stakeout of numerous well sites.
- **Various Wind Farm Clients** – Stakeout of various items for wind farm production, electric lines, access roads, pads, poles, towers, pipes, etc.
- **Hazardous Waste, Hometown, PA** – Involved with stakeout for coverage of a hazardous waste site.
- **Department of Conservation & Natural Resources (DCNR), PA** – Various bridge and culvert topography and stakeout surveys for bridge and culvert replacement. Property survey and Subdivision for property near Ingleby, PA.
- **Pennsylvania Turnpike Commission –** Guiderail, inlet, piping, and roadway inspection and topography for deteriorated elements of the PA Turnpike. Project #17-182 WO#4 from milepost 109-to milepost 123, shoulder and slope rehabilitation topo.
- **Pennsylvania Department of Transportation (PennDOT)** – Project Surveyor on various P3 bridge topo surveys and baseline stakeout throughout Pennsylvania. He also served as lead surveyor on cross-section topography survey along Route 147 Northumberland County. Mr. Bond was also of various surveyors charged with setting control and topography of center median areas along approximately a five-mile stretch of Route 15 Lycoming County for guide rail installment and replacement. Set LiDAR control panels for roadway resurfacing along 15 mile stretch of State Route 81 near Wilkes-Barre, PA.

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Yerger, Jonathan, Survey Crew Chief	<1	26	24

Brief Explanation of Responsibilities

Survey Crew Chief for Stahl Sheaffer Engineering with 26 years of experience as a surveyor. Mr. Yerger is responsible for the land surveying for public and private projects that include highway projects, utility plans, and as-built plans. As Survey Crew Chief, he performs technical design, conducts deed and Right-of-Way research and construction stakeouts, and prepares and submits structure design to PennDOT. He has extensive experience in Construction stakeout, which includes ROW, LOD, storm, sanitary, water, gas, storm management, baseline, road, curb, sidewalk, grading, etc. Prior to joining Stahl Sheaffer Engineering, Mr. Yerger was a Surveyor for Dave Gutelius Excavating Inc. for over 16 years. Relevant projects include:

- **WVDOT – DOH Greenbag Road, Monongalia County, WV** – Survey Crew Chief for traffic improvements to Greenbag Road. Along with placed and surveyed in control chevrons, the Reality Capture team used the Leica Pegasus:Two to scan two miles of the two-lane road, along with three intersecting roads. Supplemental survey ensured all basemap features beyond LiDAR limits were accounted for, and the scans were processed to produce a MicroStation existing planimetric basemap and two-foot grid DTM surface from the point cloud.
- **Interstate 81 - Mobile LiDAR Mapping Project, Luzerne County, PA** – Survey Crew Chief for a 15.5-mile section of Interstate 81 which included survey grade high-resolution mobile LiDAR point cloud data tied to horizontal survey control with the Leica Pegasus:Two system along the project corridor. Horizontal control was set and surveyed by Stahl Sheaffer. Horizontal control was tied to the Pennsylvania 1983 North State Plane Datum. Vertical control was based on GPS only.
- **PA Turnpike Commission New Baltimore Slide, Somerset County, PA** – Survey Crew Chief for a project where Stahl Sheaffer Engineering placed and surveyed in control chevrons and used the Leica Pegasus:Two to scan four lanes east- and west-bound of the Pennsylvania Turnpike. The scans were then processed to produce a MicroStation existing planimetric basemap and a two-foot grid DTM surface from the point cloud.
- **Interstate 475, Lucas County, OH** – Survey Crew Chief for a project where Stahl Sheaffer Engineering used the Leica Pegasus:Two to scan 6 miles of I-475 in Toledo, OH, including the 4 main lanes, 12 on-and-off ramps, and additional side roads. The scans were then processed to produce a MicroStation existing planimetric basemap and a DTM surface from the point cloud. Supplemental survey was included in the basemap to include all features beyond the LiDAR range.
- **Pennsylvania Turnpike Commission Blue-Kitt Tunnels, Franklin County, PA** – Survey Crew Chief for a project where Stahl Sheaffer's Reality Capture team used the Leica Pegasus:Two to scan four miles of the Pennsylvania Turnpike going through the Blue-Kitt tunnels, east- and west-bound. To ensure data accuracy, the Survey team placed chevrons, used a traverse control network, and ran levels beforehand. The resulting point cloud was processed to produce a MicroStation existing planimetric basemap, DTM, and cross-section diagrams of tunnel wall joints. Supplemental survey was included in the basemap to include all features beyond the LiDAR range.
- **SR 4014 Bradford County, PA** – Project Surveyor for this two-mile-long project. Duties included construction stakeout and topographic surveys for blacktop quantities. Project included road realignment, super elevated turns, slope cutbacks, swale regrading, cross pipe, structures, and pavement.
- **Valley Business Park, Bradford County, PA** – Project Surveyor for 1.5-mile-long project. Responsible for layout of entire project, including intersections and realignment of township road. Performed topographic surveys to establish cubic yards of material to compare to tabulated cut and fill. The project was a new build design and included cut and fill slopes, sanitary, storm, storm management basins, and paving.
- **The Pennsylvania State University, Penn State Animal Diagnostic Lab, University Park, PA** – Project Surveyor responsible for spot elevations on the interior floor at 5-foot intervals. This information was used to prepare a plan to eliminate low spots in the floor and promote positive flow to the floor drains.

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Gouty, Andrew, LiDAR Analyst II	<1	11	8

Brief Explanation of Responsibilities

LiDAR Analyst II responsible for managing Stahl Sheaffer Engineering's Survey/Reality Capture Cad Drawings. Mr. Gouty has 11 years' of experience in AutoCAD Civil 3D, Revit, Sketchup, Microstation, FARO Scene Scanner and software, Leica Register 360 and Leica Pegasus:Two running the scanner and processing the data. Relevant projects include:

- **Mannik & Smith Group, Inc, Hancock County, WV** – CAD Technician for a survey as built of a McDonalds in Chester, WV to be used by the client for renovations. Responsible for scanning the site with the FARO scanner and processing the data to create the deliverable.
- **West Virginia Roadway Improvement Initiative, Various Counties, WV** – This Project consists of improving 150 miles of rural roads, spread across 10 counties in West Virginia. Mr. Gouty served as CAD Technician improving roads/ROW for the private client throughout various counties in WV. He took the survey field data and processed it to a base map for the designers to improve the road.
- **Confidential Energy Client, Various Counties, PA** – Inspection and driving of access roads for well pad haul routes in North Central Pennsylvania. Responsibilities included setting control points for LiDAR data, scanning required roads with mobile LiDAR, and processing the data in office to ensure that the needs of the project were met. The data is used to ensure that roadways are within acceptable limits for use as haul roads for energy clients during pre-production, production, and post-production.
- **Confidential Energy Client, Various Counties, WV** – Inspection of access roads and hauling routes for pipeline construction. This project occurred across multiple counties in West Virginia where access roads were scanned with the Pegasus: Two system to ensure that road stability and conditions were not negatively impacted by pipeline construction. The scans were used as post-production data. Responsible for the mobile data acquisition of West Virginia roads and initial processing of data collected.
- **West Virginia Capital Dome, Kanawha County, WV** – CAD Technician for a survey as built of the State Capital Dome to be used to rebuild the inside of the dome back to historical accuracy following repairs to old drain lines behind the walls. Responsibilities included scanning with a FARO scanner to collect 360 survey data, processed the data, and developing measurement drawings from targets on the windows and scaffolding to the columns and walls.
- **Quantico Marine Base, Prince William County, VA** – CAD Technician for collecting LiDAR data on the Marines Base Runway and processing the data to a 0.10' of accuracy so the customer can make a survey basemap from the LiDAR data.
- **New Baltimore Slide, Somerset County, PA** – CAD Technician for a LiDAR data and survey basemap of the Pennsylvania Turnpike. Responsible for processing the data to survey control and developing a survey basemap for use in engineering design.
- **LUC 475, Lucas County, OH** – LiDAR Analyst for scanning six miles of I-475, side roads, and ramps in Toledo, responsible for operating the Leica Pegasus:Two to scan the four main lanes, 12 on and off ramps, and side roads; processing the scans; and developing an existing planimetric and a DTM of the surface from the processed point cloud.
- **US Route 33, Upshur County, WV** – LiDAR Analyst for scanning three miles of US Route 33, just east of Buckhannon. Responsible for operating the Leica Pegasus:Two to scan the four travel lanes and process to survey control within two tenths and processing the point cloud to a terrain model to get the slope of the travel lanes. This information was put into an excel format for DOT approval. This process was completed four times – the first for existing conditions, and the second, third and fourth times for in-between lifts during paving to ensure the contractor was getting the correct cross slope during construction.

EDUCATION (Degree, Year, Specialization)

Associate of Applied Science, 2011, Kanawha Valley Community College

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Hockenbrock, Matthew, P.E.	<1	38	32

Brief Explanation of Responsibilities

Project Engineer for Stahl Sheaffer, responsible for mechanical / electrical systems design on various projects, with experience in:

Mechanical System Analysis and Design:

- Hydraulic / pneumatic schematics and equipment.
- Pump system design and installation. Curve analysis, pump selection, VFD control, chemical treatment.
- Motor and brake system design. Electric, hydraulic, and combustion motor selection.
- Electromagnetic technology including Linear Induction Motors, eddy current braking.
- Machine dynamics including kinetics, kinematics, vibration analysis.
- Thermodynamics and heat transfer design and analysis including thermal FEA.
- Building mechanical system design and analysis including HVAC, ventilation, boiler systems, dehumidification, commercial kitchen hoods, heat exchangers, chiller systems, industrial refrigeration.

Electrical System Analysis and Design:

- Machine electronics and sensors. Accelerometer, proximity, temperature, motion limit, fluid sensors.
- Building power system design (<600V). Transformer sizing and selection, switchgear, emergency / generator systems, site distribution, and safety coordination.
- NFPA 70E Arc Flash Analysis program coordinator, NEC proficiency.

Control Systems:

- PLC programming, logic diagrams, and troubleshooting.
- DDC control, equipment selection, system architecture.
- Microcontroller programming, data acquisition, mechanical component control, PID control.

Energy Systems:

- Corporate energy program manager, chair of Natural Resources Committee.
- Manage corporate utility databases and reporting, oversee $7M in utility procurement contracts, demand response program coordinator.
- Evaluate and design alternative energy projects. Perform energy audits, ROI calculations.

Software proficiency in all major CAD/CAE packages (AutoCAD, Solidworks, PTC Creo, Microstation, Sketchup, OnShape), MATLAB, COMSOL, Simulink, Microsoft Office Suite, ANSYS FEA, Linux systems.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2011, Mechanical Engineering, Bucknell University
Master of Science, 2025, Mechanical Engineering, Bucknell University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2015, PA #084459

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brumberg, Peter, P.E., Vice President - Structures	<1	13	N/A

Brief Explanation of Responsibilities

Vice President for Stahl Sheaffer responsible for directing Stahl Sheaffer's Building Structures Group, providing mentoring and oversight for the design, detailing, and coordination process as well as performing quality assurance reviews. His experience as a multi-discipline team leader for a full-service A/E firm provides a heightened understanding of the importance of clear and timely communication, flexible design concepts, interactive multi-discipline coordination, and the implementation of non-traditional solutions as a dynamic member of the design team. Mr. Brumberg encourages his team to develop options that consider unique approaches including the use of alternative materials or manufactured products, development of individualized engineered detailing that might be avoided by a traditionalist approach to design, direct interaction with seasoned construction professionals, and the implementation of technology to improve the design and coordination process. Stahl Sheaffer's Building Structures staff uses Revit exclusively for drawing production on all projects. Relevant projects include:

- **American Refining Group Lab Addition, Bradford, PA** — Structural engineering manager for design of a 7,500 sf lab addition. The structure is a combination load bearing masonry structure (exterior walls) and steel frame (interior column line) supporting a traditional steel framed flat roof with metal deck and bar joists. A steel framed exterior canopy bearing on steel columns created a secure location for exterior storage. The floor is slab-on-grade with standard shallow spread foundations. Slab-on-grade is designed to accommodate equipment and traffic for the processes planned within the space. Interior revisions to the existing facility included new wall openings for doors and ductwork, and the design of a jib crane supported on an existing elevated floor for material handling. Stahl Sheaffer provided site and structural engineering for this project. Site amenities included an underground storage tank for waste materials from the laboratory testing processes, site paving, and vehicular routing including tanker trucks on the restricted site area. The site was designed to accommodate the owner's needs and processes. Stahl Sheaffer designed the building structure to accommodate the local environmental loadings, equipment and process loading, and user induced loads.
- **Penn State Farm Services Maintenance Building, University Park, PA –** Structural engineering services from design through construction of an approximately 5,600 square foot new Farm Services Building, which will temporarily be used for the Agricultural and Biological Engineering Department, followed with permanent use by University Farm Services. The project includes the design of foundations for a pre-engineered metal building, along with associated site improvements which Stahl Sheaffer is also managing. This project is structurally unique in the anticipated floor loading due to heavy equipment, the incorporation of a masonry water table to the PEMB, and an interior steel framed mezzanine space with concrete floor which required coordination with the PEMB.
- **Penn State Mushroom Lab, University Park, PA** — Structural design of an 8,060 sf facility addition, for which Stahl Sheaffer also completed the feasibility study. The structural system used an innovative composite masonry system with structural block, insulation, and thin-veneer shipped to the site as a complete unit for construction of the exterior bearing walls. Roof structure is comprised of wood trusses spaced at 4'-0" centers supporting a structurally insulated panel system to form roof surface. Wall and roof systems were selected based on durability and economy while maintaining continuous thermal envelope.
- **Pennsylvania Turnpike Commission, Design of a New Maintenance Facility, Southern Beltway –** Engineering Manager for the structural design of a multi-building maintenance operation, including office, warehouse/ storage, salt storage, emergency generator and support facilities. Estimated construction cost is $17 million. Design Complete: 2019. Construction in progress, estimated completion date: 2022.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2000, Architectural Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Institute of Steel Construction (AISC), Member	Professional Engineer, 2007, PA #074569 Professional Engineer, 2012, NY #091376

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: N/A
Wilhelm, Gregory, P.E., Project Manager - Structures	<1	13	

Brief Explanation of Responsibilities

Project Manager for Stahl Sheaffer with 13 years of experience in structural engineering design and detailing across a broad spectrum of facility types, building uses, and material types. As a Project Manager for Stahl Sheaffer, he provides expertise for the structural design of building structures in the municipal, education, commercial, recreational, and healthcare markets to various private and public clients. His experience with Revit 3D modeling is used as a vital tool for project coordination between all members of the design team including the owner, architect, and other engineering disciplines. Relevant projects include:

- **University Police Department Relocation, West Virginia University, Morgantown, WV** – Stahl Sheaffer provided survey, site engineering, structural engineering, and construction administration for the relocation of the University Police Department at WVU Morgantown. Mr. Wilhelm, as the structural engineer, provided evaluation of existing framing for support of new mechanical equipment and potential new weight room, supplemental framing to support new openings for mechanical penetrations, structural infill and realignment for the addition of a restroom where an access floor existed, floor level detailing of ballistic-rated walls, design of a frost-protected entry slab, and additional accommodations for equipment. Stahl Sheaffer coordinated with the Office of the State Fire Marshal (OSFM) to document that the building does not meet a Risk Category IV designation.
- **Pennsylvania Turnpike Southern Beltway New Maintenance Facility, Allegheny County, PA** – Structural engineer performing construction administration services for a new 51,000 SF 9-acre multi-building maintenance operation involving shop drawing reviews, field investigations and structural observations during construction of the new maintenance building with a truck wash bay, maintenance bays with overhead crane, office space, and locker rooms. Facility also included the design of foundations for a pre-engineered metal building truck shelter, fuel island canopy, pumphouse and generator building, and storage shed.
- **Pennsylvania Turnpike Harrison City New Maintenance Facility, Westmoreland County, PA** – Project Engineer for the structural design of a 42-acre maintenance facility including new 44,000 SF maintenance building with truck wash bay, maintenance bays with overhead crane, office space, locker rooms and design of foundations for a pre-engineered metal building, truck shelter, fuel island canopy, pumphouse and generator building, and storage shed.
- **City of Pittsburgh Department of Public Works, Pittsburgh, PA** – Project Engineer and detailer in coordination with the Architect-of-Record for the current interior remodeling of several fire stations in Pittsburgh, and an addition to Fire Station #19.
- **Glosser Steel Building Expansion, Camp Hill, PA –** Project Engineer for structural design of a 10,000 SF pre-engineered metal building for use for truck deliveries and manufacturing/storage with the use of heavy vehicles such as forklifts.
- **American Electric Power Transmission Group Headquarters, New Albany, OH** – Structural engineer for the 195,000 square foot office building for the headquarters of the AEP transmission group. At the heart of the building is a soaring, four-story atrium with bridges and a full height monumental stair that crisscross the space visually connecting the two separate wings of the office. The two wings were connected with the use of a post-installed pour strip to control differential lateral deflection in lieu of an expansion joint, reducing the overall cost and additional detailing/materials required to accommodate the separation of the buildings.
- **North Elementary School, Hampshire County, WV** – Lead Project Engineer for the structural design of a new 36,000 square foot elementary school consisting of Concrete-Masonry-Unit (CMU) bearing walls and open web steel joists. The building design consisted of an array of differing roof elevations and projections across the building footprint including long-span conditions over the gymnasium and assembly areas.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2011, Civil Engineering – Structural Emphasis, Ohio University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 2022, WV # 25499 Professional Engineer, 2019, PA # 089472

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Marso, Michael, Senior Vice President – Construction Inspection	<1	44	37

Brief Explanation of Responsibilities

Senior Vice President for Construction Services with 44 years of experience in construction management and inspection, preliminary and final design, and environmental services of projects which he has applied to various projects located throughout Pennsylvania, West Virginia, New York, and Ohio. He possesses extensive project experience with PennDOT and the Pennsylvania Turnpike Commission. As Senior Vice President at Stahl Sheaffer, Mr. Marso is responsible for business development, quality control and operations for the firm. Relevant projects include:

- **Milepost 129 to 134 Total Reconstruction, Pennsylvania Turnpike Commission** – Project Manager and Principal for the total reconstruction of five miles of the Pennsylvania Turnpike. The project includes the early action removal and replacement of three bridges and the remediation of the New Baltimore Slide. Managed the construction management and inspection team and attended the design review meetings. The total scope of the project will be the realignment and reconstruction of the Pennsylvania Turnpike from just East of the Allegheny Tunnel to Milepost 134 in the town of New Baltimore.
- **Allegheny Tunnel Restoration, Pennsylvania Turnpike Commission** – Project Principal of this Construction Management and Inspection contract for the complete restoration of eastbound tube of the Allegheny Tunnel and associated structures.
- **Milepost 199 to 214, Pennsylvania Turnpike Commission** – Project Principal of this final design total reconstruction project for 15 miles of the Pennsylvania Turnpike. Scope of work included the final design for the 15 miles of Turnpike, drainage modifications and improvements, several structures, and early action bridge replacements.
- **Milepost 76 to 85 Total Reconstruction** – Principal-in-Charge. Duties included assignment of inspectors, review of all correspondence and submittals, project schedule review, and coordination with contractor. This contract was the $57-million reconstruction of nine miles of the Pennsylvania Turnpike. The project included the full depth reconstruction of the roadway, shoulders, and the median; the removal of the existing guide rail and median barrier; the furnishing and installation of guide rail and concrete glare screen; replacement of drainage pipes and culverts; installation of pavement base drains; and maintenance and protection of traffic and rehabilitation and widening of seven structures.
- **Susquehanna River Bridge** – Project Principal for the archaeological study on Calver Island and for the construction support, public involvement, and environmental monitoring of the new bridges over the Susquehanna River.
- **Laurel Valley Expressway, Pennsylvania Turnpike Commission** – Project Principal. Principal management of this preliminary engineering and environmental study project for the Pennsylvania Turnpike Commission. Project involved the study of several alternatives for a seven-mile section of new roadway that would spur economic development and provide a safer travel for the customers of the Pennsylvania Turnpike.
- **PennDOT District 1-0 –** Senior Project Manager and Principal-in-Charge on the reconstruction, realignment, and widening of 38th Street in the City of Erie
- **PennDOT District 2-0 –** Senior Project Manager on the construction of I-99 in Port Matilda.
- **PennDOT District 3-0 –** Principal-in-Charge of a District 3-0 Construction Inspection Open End contract.
- **PennDOT District 4-0 –** Principal-in-Charge and Senior Project Manager on several reconstruction projects throughout District 4-0
- **PennDOT District 5-0 –** Principal-in-Charge on numerous final design and construction projects. Most notably the Saucon Valley Expressway, SR 412, 7th Street reconstruction and Tuckerton Road Bridge.
- **PennDOT District 8-0 –** Principal-in-Charge on numerous final design and construction projects in the District. Most notably several I-83 inspection contracts, open ends and the design of the Mt Joy Bridges.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 1982, Civil Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	NICET Level IV- Highway Construction #70662272

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Kosir, Robert, Construction Inspection Supervisor	<1	25	20

Brief Explanation of Responsibilities

Construction Inspection Supervisor with 25 years of construction-related experience and is well qualified in all aspects of inspection, including material quality, material placement, and material compaction. He typically oversees roadway reconstruction or roadway maintenance projects. He is experienced with full depth reclamation with cement stabilization, bituminous overlays, bituminous patching, drainage improvements, and aggregate roadway projects. He is also proficient in daily report preparation and material sampling. Relevant projects include:

- **SR 3001, SR 3012, and SR 3005, Greene Co., PA, TCI-1** – Roadway Reconstruction. Full Depth Reclamation with Cement Stabilization, drainage improvements, slope stabilization, and asphalt overlay. Performed daily inspections, prepared daily records, coordinated contractor's construction schedule, coordinated contractor's questions with design engineers, and completed overall project documentation including project close-out.
- **SR 3009 Bridge, Greene Co., PA, TCI-1** – Removing and replacing a concrete bridge over Toms Run. Performed daily inspections, prepared daily records, coordinated contractor's construction schedule, coordinated contractor's questions with design engineers, and completed overall project documentation including project close-out.
- **Fallen Timber Road, Allegheny Co., PA, TCI-1** – Milling off the roadway, base repair, and asphalt overlay. Mr. Kosir performed daily inspections, prepared daily records, coordinated contractor's construction schedule, coordinated contractor's questions with design engineers, and completed overall project documentation and project close-out.
- **Bethesda and Guyer Rd., Westmoreland Co., PA, TCI-1** – Roadway Base Repair. Performed daily inspections, prepared daily records, coordinated contractor's construction schedule, coordinated contractor's questions with design engineers, and completed overall project documentation including project close-out.
- **Eureka Slips, Salem/Crescent, OH** – Construction Inspector/Manager for pipeline slide repair project. Worked with the client to make sure enough staff was available to cover all the sites that would have construction going on at the same time. Coordinated staff from site to site as needed and dealt with any issues that arose. Also performed nuclear density testing in the field to ensure that the slips were being repaired properly.
- **Washington T-655 Depaoli Road** – Roadway Reconstruction. Full Depth Reclamation with Cement Stabilization. Performed daily inspections, prepared daily records, coordinated contractor's construction schedule, coordinated contractor's questions with design engineers, and completed overall project documentation including project close-out.
- **Valley Church Rd., Greene County, PA, TCI-1** – Bridge reconstruction. Led daily inspections, prepared daily records, coordinated contractor's construction schedule, coordinated contractor's questions with design engineers, and completed overall project documentation including project close-out.
- **MarkWest Compressor Station, Washington County, PA, TCI-1** – ConSpan Arch Bridge Construction. Responsible for daily inspections, prepared daily records, coordinated contractor's construction schedule, coordinated contractor's questions with design engineers, and completed overall project documentation including project close-out.
- **Wylie Ave, Washington County, PA, TCI-1 –** Roadway Reconstruction. Full Depth Reclamation with Cement Stabilization. Performed daily inspections, prepared daily records, coordinated contractor's construction schedule, coordinated contractor's questions with design engineers, and completed overall project documentation including project close-out.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2002, Finance, Robert Morris University
Master of Business Administration, 2010, Waynesburg University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Roadway / Traffic Engineering Programs and Equipment

- Microstation, GeoPAK, & InRoads CAD Design Software
- AutoCAD & AutoCAD Civil 3D CAD Design Software
- AutoTurn
- AutoTAB Software
- McTrans HCS+ Highway Capacity Analysis Software
- Synchro Traffic Signal Timing and Coordination Software
- SIDRA (Roundabout Analysis)
- PTV VISSIM Advanced with Econolite ASC/3 SIL
- TRU-TRAFFIC (TS-PP DRAFT)
- Microtrans Trip Generation Software
- TraxPro Traffic Data Collection Software
- IHSDM-HSM Predictive Method
- Surrogate Safety Assessment Model Software (SSAM)
- Pedestrian and Bicycle Crash Analysis Tool (PBCAT)
- SPANWIRE SIGNAL SUPPORT (SWISS)
- Equipment to Complete Traffic Engineering Speed, Volume, Classification, and Gap Studies
- Automatic Traffic Recorders (ARs)
- Vehicle / Pedestrian Turning Movement Count Boards
- Radar Gun for Speed Studies
- Various Timing Devices for Travel Time Studies
- Traffic Control Devices for Origin / Destination Studies

Bridge / Hydraulics Design Software and Equipment

- Bentley Bridge Suite: LARS, LEAP Bridge Concrete
- Eriksson Culvert (ET Culvert)
- RISA 3-D
- Shoring Suite
- MathCAD
- Hec-RAS
- HY-8
- WinTR-55
- Scour Pole/Probing Rods
- Tape & Laser Measurers
- Masonry Hammers (for sounding)
- HEC-RAS, FlowMaster, HEC-1, HY-8,TR-20,TR-55, PSU-IV
- PennDOT Software Suite of Programs: ABUTLRFD, PAPIER, BPLRFD, BOXLRFD, BRGGEO, BRADD 3, PS3, BOX5, ABUT5, BAR7, BPAD
- Ram Structural System, ENERCALC, RISA, RAM Elements & Tedds
- Safety Harnesses
- Dial Calipers
- Digital Cameras
- Cordless Drill/Grinder
- Miscellaneous Sized Ladders
- 25’ Clearance Rod
- 12’ Scour Rod
- D-Meter
- Dye Penetrant Kit

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

General Lab Devices

- Calorimeter
- Jaw Crusher
- Oven
- pH Meter
- Proctor Hammer and Molds
- Scales
- Sample Splitter
- Universal Load Frame
- Concrete Load Frame
- Rock Compressive Strength Frame
- Material Specific Gravity Devices (Manometer, vacuum pump, shaker)

Soil / Aggregate Tests:

- CBR Device
- Concrete Mixture
- Curing room
- Expansion Index Test Device
- Soil Hydrometer
- Liquid Limit Device

Survey/GIS Software and Equipment

- Total Station Systems with electronic field book
- GPS Survey-Grade Systems
- Survey-Grade Mobile LiDAR Scanning (Leica Pegasus: Two)
- Mapping-Grade Mobile LiDAR Scanning (Trimble MX2)
- Mapping-Grade Mobile Imaging (Trimble MX7)
- Custom Mobile Mapping Vehicle
- Terrestrial LiDAR Scanning (FARO Focus 330X HDR)
- Matrice 200 Series Mid-Sized Drone
- Zenmuse X5S Camera Attachment
- Subsurface Magnetic Locators
- Traffic Control Signs, Cones, Safety Vests
- Tapes, Levels, Measuring Wheels, Miscellaneous Survey Equipment
- Trimble Trident Software
- ArcMap version 10.6
- ArcGIS Pro version 2.1
- Portal for ArcGIS
- Collector for ArcGIS version 18.0.1
- Explorer for ArcGIS version 18.0.1
- Certainty3D TopoDOT
- Clearedge Edgewise 3D
- AutoDesk Revit
- Global Mapper
- Leica MapFactory
- Trimble Trident
- Applanix POSPac MMS
- Novatel Inertial Explorer
- Leica Infinity
- FARO Scene
- Pointsense Plant
- AutoDesk Plant 3D
- Topcon Magnet Field
- Arpad 10.2 for Desktop
- Microsoft SQL Server Management Studio
- SX Blue II GNSS GPS

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Burcell Technologies Martinsburg, WV Project, Berkeley County, WV	Burcell Technologies, Inc. 4255 Wade Green Road, Suite 825 Kennesaw, GA 301844	Survey, Environmental Services, Site Land Development Analysis and Design, WV DEP Solid Waste Permitting	$100,000,000.00	Design - 2% Construction – 0%
(24-150) EQT CR 1over Pyles Fork Bridge Replacement, Marion County, WV	EQT EQT Plaza, 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222	Survey, Environmental Services, Structural Design, Permitting, Geotechnical Investigation and Analysis, Hydrologic and Hydraulic Study, Roadway Design, Construction Documents	$4,700,000.00	Design - 60% Construction – 0%
(24-081) EQT WV 20 over Shenango Creek Bridge Replacement, Wetzel County, WV	EQT EQT Plaza, 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222	Survey, Environmental Services, Structural Design, Permitting, Geotechnical Investigation and Analysis, Hydrologic and Hydraulic Study, Roadway Design, Construction Documents	$2,612,037.00	Design - 65% Construction – 0%
(23-320) EQT WV 7 over Miracle Run Bridge Replacement, Monongalia County, WV	EQT EQT Plaza, 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222	Survey, Environmental Services, Structural Design, Permitting, Geotechnical Investigation and Analysis, Hydrologic and Hydraulic Study, Roadway Design, Construction Documents	$3,028,393.00	Design - 65% Construction – 0%
(23-304) EQT US 250 over Church Fork Creek Bridge Replacement, Wetzel County, WV	EQT EQT Plaza, 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222	Survey, Environmental Services, Structural Design, Permitting, Geotechnical Investigation and Analysis, Hydrologic and Hydraulic Study, Roadway Design, Construction Documents	$6,156,368.00	Design - 65% Construction – 0%
EQT US250 over Church Fork Creek Bridge Replacement, Wetzel County, WV	EQT EQT Plaza, 625 Liberty Avenue, Suite 1700 Pittsburgh, PA 15222	Survey, Environmental Services, Structural Design, Permitting, Geotechnical Investigation and Analysis, Hydrologic and Hydraulic Study, Roadway Design, Construction Documents	$1,200,000.00	Design - 0% Construction – 0%
UB Church Bridge Replacement, WV42 over N Fork Lunice Creek, Grant County, WV	WVDOT-DOH 1334 Smith Street Charleston, WV 25301	Survey, Environmental Services, Structural Design, Permitting, Geotechnical Investigation and Analysis, Hydrologic and Hydraulic Study, Roadway Design, Construction Documents	$1,950,000.00	Design - 94% Construction – 0%

Greenbag Road Final Design, Monongalia County, Roadway Improvements	WVDOT-DOH 1334 Smith Street Charleston, WV 25301	Alternatives Analysis, Roadway Design, Retaining Wall Design, Culvert Widening Design, Traffic Control, Drainage Design, 3D LiDAR Scanning, Right-of-Way Plan Development, and Subconsultant Oversight for the Development of an EA	$19,361,000.00	Design - 100% Construction – 0%
(T00119) PA Turnpike, Rehabilitation of Blue Mountain and Kittatinny Tunnels, Milepost 197.48	Pennsylvania Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057	Structural Inspection, Rehabilitation Design, Traffic Control, Drainage Design, 3D LiDAR Scanning, Mechanical, Control and Life Safety, and Electrical Systems Construction Documents	$250,000,000.00	Design - 70% Construction – 0%
(13-018) PA Turnpike, Milepost 125 to 134 Construction Management and Inspection	Pennsylvania Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057	Construction Inspection and management of Roadway, Shoulder, and Slope Rehabilitation Design, Drainage Design	$16,566,625.00	Design - 75% Construction – 0%
Industrial Park Road Reconstruction Project Selinsgrove Borough, Snyder County, PA	Borough of Selinsgrove 1 N. High Street, PO Box 34 Selinsgrove, PA 17870	Survey, Environmental Services, Roadway Design, Permitting, Geotechnical Investigation and Analysis, Construction Documents	$2,100,000.00	Design – 80% Construction – 0%
TOTAL NUMBER OF PROJECTS: 11			TOTAL ESTIMATED CONSTRUCTION COSTS:	**$407,674,423**

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Pennsylvania Turnpike Commission Design Services For New Cashless Tolling Open Road Toll (ORT) Zones	Assisting Stantec In Traffic Design for New Cashless Tolling Open Road Toll (ORT) Zones.	Pennsylvania Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057	11/21/2025	$13,270,825.00	$479,977.00
(E02776) PennDOT Engineering District 2-0, Centre County, SR 3014 Atherton Corridor Highway Improvement	Providing Borton Lawson with LiDAR, 2D Terrestrial Scanning, Topographic Survey and Basemapping, Traffic Studies, Permanent	PennDOT Engineering District 2-0 70 PennDOT Drive Clearfield, PA 16830	11/13/2025	$30,702,634.00	$10,011,800

	and Temporary Traffic Signal Designs, Utility Coordination, Water Line Relocations, Sanitary Sewer Relocations, Utility Pole Relocations, and Engineering Support Services				
ODOT Project LUC-475-10.21: Reconstruction and Widening of an approximate 4.7-Mile Portion of I-475 in the City of Toledo	Sub-consultant to Mannik & Smith. Providing Mobile LiDAR Surveying Services and Bridge Design Support for Mainline Bridge over Secor Rd.	ODOT District 2 317 E. Poe Road Bowling Green, OH 43402	Design estimated December 2025 Construction estimated October 2030	$155M	$8M
(E04968) PennDOT Engineering District 11-0, Open-End Design Maintenance Services	Sub-consultant to Buchart Horn Providing Roadway Design, Traffic Engineering, and Structural Design Support Services on Numerous Work Orders.	PennDOT Engineering District 11-0 45 Thoms Run Road Bridgeville, PA 15017	12/31/2027	$1,000,000	$400,000

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
(17-182) PA Turnpike Design Open End Work Order #4: Shoulder and Slope Repair Milepost 110.15 to 114.15	Pennsylvania Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057	$8,500,000.00	2023	No
(E03976) PennDOT Engineering District 9-0, PA 56 Trib to Barefoot Run Bridge	PennDOT Engineering District 9-0 1620 N. Juniata St., Hollidaysburg, PA 16648	$876,039.04	2021	Yes
ODOT 21806 CUY-087-15.12 Bridge Project	ODOT District 12 5500 Transportation Boulevard Garfield Heights, Ohio 44125	$805,000.00	2023	Yes
(E03627) PennDOT Engineering District 2-0, Clearfield County Bridge Replacement Projects- SR 453/A02, SR 1004/A03 and SR 2023/A02	PennDOT Engineering District 2-0 70 PennDOT Drive Clearfield, PA 16830	$1,306,312.11	2020	No

Greenbag Road PIE, Monongalia County, Roadway Improvements	WVDOT-DOH 1334 Smith Street Charleston, WV 25301	$16,000,000.00	2020	No
(E03600) PennDOT Engineering District 2-0, Construction Inspection for SR 3045, Section A01, Waddle Road Interchange Reconstruction	PennDOT Engineering District 2-0 70 PennDOT Drive Clearfield, PA 16830	$779,108.03	2019	YES
(E02692) PennDOT Engineering District 2-0, Mifflin County, SR 1005-A05 Bridge Replacement	PennDOT Engineering District 2-0 70 PennDOT Drive Clearfield, PA 16830	$387,727.00	2019	YES
(17-182) PA Turnpike Design Open End Work Order #2: Bituminous Resurfacing, Bridge Rehabilitation, and Slope Stabilization Milepost 282 to 292	Pennsylvania Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057	$19,155,000.00	2018	YES
(17-182) PA Turnpike Design Open End Work Order #3: Bituminous Resurfacing, Bridge Rehabilitation, and Slope Repair Milepost 353 to 355	Pennsylvania Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057	$5,010,000.00	2018	YES
WV Roadway Improvement Initiative (WVRII)	Energy Client, Various Counties, WV - included various public roadway improvement projects totaling 115 miles located in several WVDOH Districts (District 1, 2, 3, 4 & 6)	$50,000,000.00	2018	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS CONSTRUCTION OVERSIGHT ON PROJECTS				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
(E04409) PennDOT Engineering District 5-0 District Wide Construction Inspection	PennDOT Engineering District 5-0 1002 Hamilton Street Allentown, PA 18101	$1,503,819.00*	2023	Yes
(E04370) PennDOT Engineering District 3-0 District Wide Construction Inspection	PennDOT Engineering District 3-0 715 Jordan Avenue, PO Box 218 Montoursville, PA 17754-0218	$1,250,000.00*	2023	Yes
(E04063) PennDOT Engineering District 3-0, Construction Inspection for Various Department and/or Local Public Agency Projects	PennDOT Engineering District 3-0 715 Jordan Avenue, PO Box 218 Montoursville, PA 17754-0218	$1,250,000.00*	2023	Yes

District Wide Construction Inspection, District 3-0, PA	PennDOT Engineering District 3-0 715 Jordan Avenue, PO Box 218 Montoursville, PA 17754-0218	$1,000,000.00	2018	YES

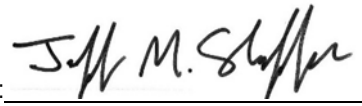
19. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Pennsylvania Turnpike Commission Maintenance Facility on the Southern Beltway	Pennsylvania Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057	$20,000,000	2020	Yes	AE Works
PennDOT District 1-0 Highway Occupancy Permit Inspection Contract	PennDOT Engineering District 1-0 255 Elm Street, P.O. Box 398 Oil City, PA 16301	N/A	2017	Yes	Stantec
WVDOH Beechurst Ave at 6th Street, Spot Improvements PIE Study	WVDOT-DOH 1334 Smith Street Charleston, WV 25301	$10,000,000	2021	No	Stantec
I-64 Merritts Creek Design Build	WVDOT-DOH 1334 Smith Street Charleston, WV 25301	$71,000,000	2021	No	Stantec
US340: VA Line to Charles Town Road	WVDOT-DOH 1334 Smith Street Charleston, WV 25301	$40,000,000	2022	No	GAI
Rt 93 Sherr Overpass, State Project Number S312-48-8.69 00	WVDOT-DOH 1334 Smith Street Charleston, WV 25301	$2,000,000	2022	No	Mannik Smith Group

20. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

Please see our attached qualifications statement for AML project development, design, permitting, and inspection.

21. The foregoing is a statement of facts.

Signature:  Title: President

Printed Name: Jeff Sheaffer, P.E., CBSI, NCTI

Date: August 20, 2025

AML and RELATED PROJECT EXPERIENCE MATRIX

PROJECT EXPERIENCE REQUIREMENTS																		PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional													
PROJECT	Exp. Basis C=Corp P=Personal	Additional Info Provided in Section (s) **	Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/ Shaft Closure	Hydrologic/ Hydraulic Design/ Eval.	Remining Evaluation	Mine/ Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/ Mitigation/ Replacement	Construction Inspection/ Management	Water Treatment	Active/ Passive Water Treatment Systems	Equipment / Structure Removal	Stream Restoration	Geotechnical/ Stability	Robert Milne	Mike Vaow	David Corder	Scott Popovich	Don Webb	Paul McClellan	Devin Landsberry	Jason Reed	Jeff Baughman	Ben Showers	Kevin Kline	Matt Mcahan	Seth Tomsic	Mike Marso
Burcell Technologies, Martinsburg, WV	C&P	13				X					X								M,P	P	P			M		P					
WV Roadway improvement Various Co.'s, WV	C&P	13,20				X			X		X		X	x		X	X	X		P		M, P	P		P	P		P	P	P	P	M,P
WVDOH Greenbag Road Monongalia County, WV	C&P	13,20				X					X	X		x		X	X	X	M	P	P	M,P	P		M,P	P		P	P	P	P	
Monroe County Slide Repairs Monroe Co., OH	C&P	13									X		X					X			P	M,P	P							P	P	M
Bell Resources Marshall Ridge #2	P	13	X			X					X							X		P												
Greymont Plant, Pleasant Gap PA	P	13		X	X						X									P												
Sugar Camp Run Jefferson Co., PA	P	13				X				X	X		X					X		P												
SR Section 103 Partnership Project Lycoming Co., PA	C&P	13,20				X			X		X	X	X			X		X		P		M,P		M,P		P	P	P	P		P	
SR 3016 Improvement Project Greene County, PA	C&P	13,20									X		X					X				M,P	P		P						P	
Atherton Street Improvements State College, PA	C&P	13,20									X	X	X	X	X	X		X		P		M,P		M,P	P	P	P	P	P			
Rivers landing New Mixed-Use Building, Clearfield, PA	C&P	13,20									X	X	X			X		X		P				M,P		P						
Streambank Restoration, Erie, PA	C&P	13,20									X	X					X							M,P	P	P		P				
Sandy Lick Creek Stream Restoration City of Dubois, PA	C&P					X					X	X					X	X		P				M,P		P						
Montandon Development Group, Northumberland County, PA	C&P										X	x		X		X		X				M,P		M,P			P					

* List whether project experience is corporate or personnel based or both.

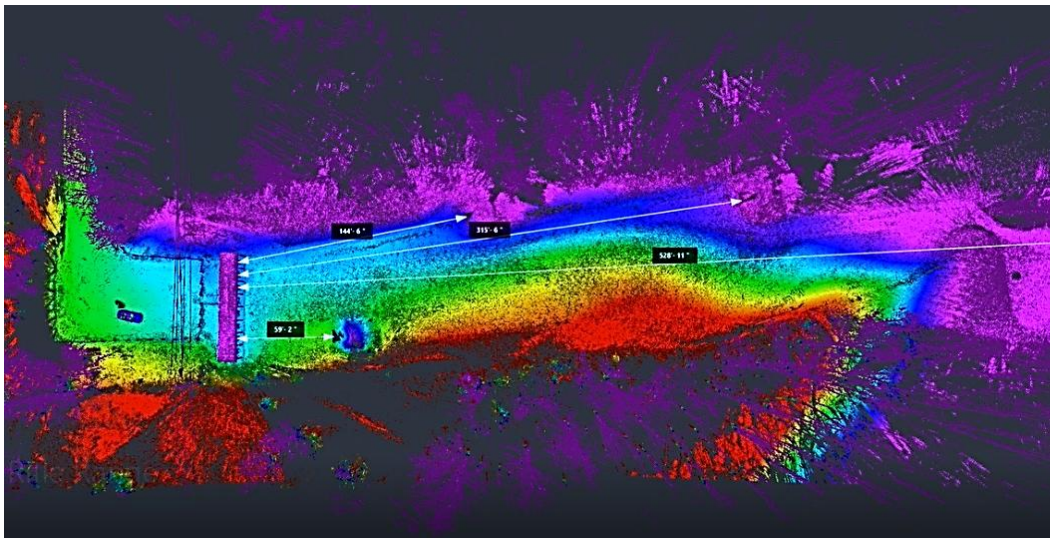
** Use this area to provide specific sections or pages if needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed.

Attachment "B"

EXPRESSION OF INTEREST

AML – EOI Pre-Qualification for Consultants
Solicitation # CEOI 0313 DEP2600000001



August 20, 2025

Submitted to:

west virginia department of environmental protection

dep

Submitted by:

STAHL SHEAFFER ENGINEERING
250 Lakewood Center, Morgantown, WV 26508
stahlsheaffer.com

STAHL SHEAFFER ENGINEERING

Contents

STAHL SHEAFFER ENGINEERING

Stahl Sheaffer Engineering, LLC
250 Lakewood Center
Morgantown, WV 26508
Phone: 304.381.4281
Fax: 304.381.4299
stahlsheaffer.com

May 20, 2025

Mr. Josh Hager
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305

Re: AML – EOI Pre-Qualification for Consultants
Solicitation #CEOI 0313 DEP2600000001

Dear Mr. Hager:

Stahl Sheaffer Engineering, Inc. (Stahl Sheaffer) is pleased to submit this Expression of Interest (EOI) for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) to provide architectural/engineering services pursuant to HB 3429.

In this EOI you will find our firm overview; understanding of the project and goals; and qualifications, experience, and past performance.

Our West Virginia office is located in Morgantown and places Stahl Sheaffer in a position to be responsive and readily available. Please contact me at 304.692.9176 or via email at rmilne@stahlsheaffer.com should you have any questions or require additional information.

Sincerely,

Rob Milne, P.E.
Regional Office Manager - WV / Designated Contact Person
Stahl Sheaffer Engineering, Inc.

Copy File P25-335

Qualifications, Experience, and Past Performance

Firm Profile

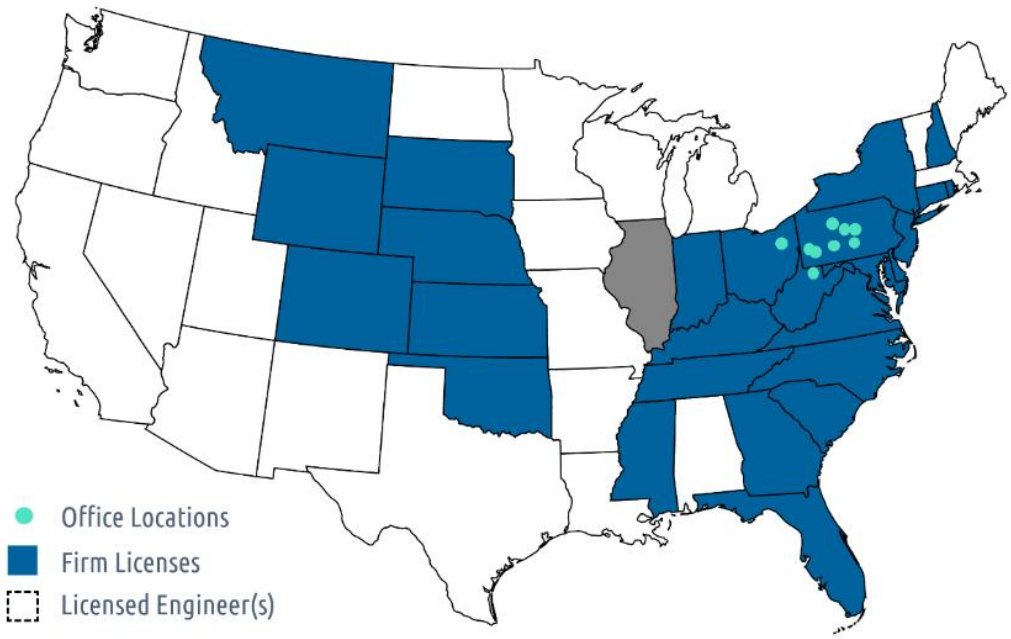
Stahl Sheaffer Engineering (Stahl Sheaffer) is a multi-discipline civil engineering firm that has been providing services since 2006. Stahl Sheaffer specializes in site, transportation, building, and bridge engineering, along with survey, geotechnical, environmental, and construction inspection support services. Our licensed engineers, surveyors, construction managers, and inspectors have worked extensively with both public and private sector clients.

Stahl Sheaffer was ranked for the eighth consecutive year in the ENR Mid-Atlantic Top Design Firms list.

Stahl Sheaffer has 130 employees operating from nine locations from which we can assign resources to meet timelines and design requirements. Our professionals are licensed or certified as civil engineers, bridge safety inspectors, tunnel inspectors, façade inspectors, construction inspectors, surveyors, geotechnical analysts, environmental scientists, designers, GIS technicians, and construction inspectors.

Services for the WVDEP AML projects will be provided from our local West Virginia office, as well as supplemental offices that are close to the project site.

Stahl Sheaffer has 9 Locations, Licensed in 23 States



Qualifications

We have experience in providing professional civil engineering, geotechnical, survey, environmental, and construction inspection services that include elements similar to these types of projects. Our extensive experience in managing open-end contracts with private clients, and state/local government agencies provides us with an understanding of how to most effectively address projects for AML restoration initiatives.

Communication

We propose one single point of contact for clear communication between the client and Stahl Sheaffer. Stahl Sheaffer is currently using many of the available technological tools in conducting our day-to-day business such as GIS software and online video conferencing. Using these tools results in time savings and cost savings to our clients. We propose using our GIS portal to communicate the progress of tasks from design through construction. As a web-based system, the GIS portal does not require any additional software installation on the users end. This system allows effective organization of project documents, mapping, and schedules. We can readily document progress and concerns that arise during field evaluations, design, or construction, and convey that in real time. We will coordinate with our team to ensure appropriate resources are assigned to meet key milestones. Any unexpected issues will be communicated immediately to the WVDEP. We will supplement our GIS system with a minimum of weekly status meetings accomplished in person or through online video conferencing and email usage.

History Completing Projects On Time & On Budget

Stahl Sheaffer has a history of completing projects on time and on budget. Project Managers across the firm meet as a group monthly to evaluate overall workload and distribution of resources. Stahl Sheaffer also maintains a steady workload balanced across regions, disciplines, and market sectors, and we have a strategic approach to adding additional staff to support workload requirements. We believe our success is best communicated through our clients:

- *"Stahl Sheaffer Engineering excelled on the completion of Part 2 of this agreement, accelerating the controversial project resulting in letting the project* ***nearly one year ahead of the originally scheduled let date.*** *Stahl Sheaffer performed very well at facilitating the public workshops meeting the needs of the Department as well as other project stakeholder.* ***Stahl Sheaffer was very responsive to the project's needs****, often times meeting with residents or design team members on very short notice. Jeff Sheaffer and Aaron Fayish performed very well at both the technical end of the design and facilitating the public's needs into the project. It was a pleasure working with SSE on this project."* ~PennDOT District 2-0 Project Manager
- *"I have had the privilege to team with Stahl Sheaffer Engineering to, assess risks, implement designs and administer construction on several projects. Aside from the* ***excellent engineering services and extremely competitive fee*** *Stahl Sheaffer is widely known for and has consistently delivered for me, I'm most impressed by the design development methods Stahl Sheaffer implements to reach a successful final design, especially when it comes to working with numerous stakeholders."* ~Ron Kobelenske, Project Coordinator, Penn State OPP Commonwealth Services
- *"Stahl Sheaffer Engineering's professionalism and approach to completing this project was impeccable.* ***Their attention to detail was key*** *in surveying existing building conditions and incorporating feasibility, practicality, and architectural aspects into their design in an effort* ***to meet the safety, budgetary, and architectural constraints*** *of the project."* ~Jason Sheffield, Project Executive, Poole Anderson Construction

AML Related Services and Experience

The following examples show experience in providing professional civil engineering, geotechnical, survey, environmental, and construction inspection services for a multitude of projects in the transportation, civic, energy, education, and private development markets.

Geotechnical Investigation, Studies and Engineering

Stahl Sheaffer Engineering provides turn-key geotechnical services, from subsurface investigation and laboratory testing to asphalt mix designs for road repair, slide remediation, and embankment stabilization. Stahl Sheaffer has a 5,000 square foot full service Geotechnical Lab in Washington County, PA that is AMRL/AASHTO registered and features state-of the art equipment for: AASHTO Accredited Testing of Soils, Aggregate, and Asphalt; Full-Depth Reclamation (FDR) Designs; Cold In-Place Recycled (CIR) Asphalt Mix Designs; Hot Mix Asphalt (HMA) Testing; Slope Stability Analysis; Foundation Design & Analysis; Pavement Design & Analysis; Subgrade Testing; and Embankment Stabilization Testing.

FEMA Slip Repairs, Woodsfield, Monroe County, OH

Description: Geotechnical investigation and slip repair designs

Stahl Sheaffer has designed 20 slip repairs for Monroe County, OH; five as part of their 2018 FEMA Repair Projects, and 15 as part of their 2019 FEMA Repair Projects. All these projects included complete design: survey, drilling (by others), drilling inspection, laboratory testing, geotechnical engineering design (including slope stability analysis), environmental permitting (if required), plan preparation, engineer's cost estimate, and the contract documents. Stahl Sheaffer has also provided Geotechnical Reports for two other slip locations in Monroe County. The County plans to use the information in these reports to perform "in-house" slip repair designs.

CR 30 Slide Repairs/Road Improvements, Doddridge County, WV

Description: Geotechnical investigation and slip repair designs

Stahl Sheaffer was the prime engineering consultant for this road improvement and slide repair project that included:

Slide Repair During Construction

Culvert – Replaced two existing drainage culverts with corrugated pipe that were failing along Doddridge CR 30.

Curve Widening – Enhanced the ability for larger vehicles to maneuver around curves which improved the safety of the roadway by eliminating or reducing trailer off-tracking and trucks encroaching into opposing lanes.

Slide Repair – Improved the stability of the roadway by installing soil nails to address two slides along the roadway at mile post 3.029 and 3.57.

Pull-off Widening – Constructed pull-off widenings to enable large vehicles to pass each other along the narrow roadway.

SR 3016 Roadway Improvement Project, McCracken Roadway, Aleppo & Richhill Townships, Greene County, PA

Description: Geotechnical Engineering, Roadway & Drainage Design

Stahl Sheaffer prepared the design and permit plans for roadway widening, asphalt base repairs, asphalt overlays, drainage improvements, and slide repairs as indicated on the approved drawings in the bid package for SR 3016 in Greene County, Aleppo Township and Richhill Township from the West Virginia state line at segment 0010 offset 0000 to SR 3001 Aleppo Road at segment 0070 offset 2979. The project design and permitting was reviewed by PennDOT District 12-0 Permits, Design Group, and Geotechnical Group.

Photo demonstrates Stahl Sheaffer's FDR with proctor tests completed for the project at Stahl Sheaffer's Soils & Materials Lab.

Parking Lot Geotechnical Analysis & FDR Mix Designs, Woodsfield, JACK Thistledown Racino, Flex-Tech Resources, Cuyahoga, OH

Description: Geotechnical analysis and FDR mix design

Stahl Sheaffer completed geotechnical analysis and recommendations for the JACK Thistledown Racino parking lot in 2016. Stahl Sheaffer performed two Full Depth Reclamation (FDR) mix designs (10" FDR and 12" FDR) based on the strata of the on-site materials as well as an overlay pavement design. Compared with the initial design, Stahl Sheaffer's designs increased the pavement structure capacity and reduced the proposed overlay thickness from 4" to 2.5".

Kinder Road (T-798) Bridge Replacement, North Bethlehem Township, PA

Description: Geotechnical investigation and bridge design

Stahl Sheaffer provided engineering design for the replacement of an existing load posted bridge with a new reinforced concrete box culvert. Stahl Sheaffer was responsible for all design-related tasks including geotechnical/foundation reports, survey, roadway & bridge design, Hydrologic and Hydraulic reports, maintenance and protection of traffic, signing and pavement markings, drainage, Right-of-Way Plans, and environmental permitting. In addition to the box culvert, Stahl Sheaffer made significant adjustments to the existing vertical geometry along Kinder Road to reduce the profile grade from 26% to 4% at an adjacent intersection tie-in located 200 feet from the bridge site. Stahl Sheaffer also designed safety improvements at the nearby intersection to assist with existing sight distance concerns. In addition, Stahl Sheaffer prepared all bidding and contract documents including construction plans, specifications, and estimates. This project has not yet been constructed.

Photo shows Stahl Sheaffer's Rock Comprehensive Strength Test, completed for this project in-house at our soils & Materials Lab.

CR 5/3 Slide Repairs/Road Improvements, Wirt County, WV

Description: Geotechnical investigation and slip repair designs

Stahl Sheaffer was the prime engineering consultant for this slide repair project that consisted of improving the stability of the roadway by installing a pile and lagging wall to address an approximately 210-foot-long embankment slide.

Communication Tower Foundation Investigations & Recommendations, Erie County Department of Public Safety, Erie County, PA

Description: Geotechnical investigation, soil resistivity testing, & construction stakeout

Erie County was upgrading its existing radio ("911") system to better serve residents, businesses, and tourists of the county. To achieve the overall plan, Erie County contracted the construction of eight raw lands to finish tower sites across the county to provide radio frequency coverage for first responders. The project consisted of eight cell towers located at Union City, Corry City, Waterford Township, Girard Township, Fairview Township, Greenfield Township, Harborcreek Township, and Springfield Township.

Stahl Sheaffer provided site engineering and geotechnical services for the project. The site survey included research to identify property deeds and easements to assist in locating proposed towers. Stahl Sheaffer also provided construction stakeout.

Geotechnical services included subsurface investigation, laboratory testing, geotechnical analysis, and report. The subsurface investigation included drilling inspection, visual inspection of the boring samples, determination of Rock Quality Designation (RQD) and Percent Recovery of rock core samples, photographic documentation of project site and findings, ground water table measurement, digital boring log. All laboratory tests were performed at Stahl Sheaffer's AASHTO resources-accredited geotechnical lab. The tests included natural water content, Atterberg Limit, sieve analysis, soil classification, soil density, soil resistivity, unconfined compressive strength and direct shear of soil, and compressive strength of rock cores. Based on the results of the subsurface investigation and laboratory testing, Stahl Sheaffer estimated the parameters for the design of drilled shafts and a shallow pad foundation. The parameters estimated included soil strength, Skin Frictional Resistance of soil and rock, Ultimate Bearing Pressure, Strain E50, and Lateral Subgrade Modulus. All findings were described in the geotechnical report.

Surveying, Mapping, & Reality Capture

In-house surveying capabilities, including Professional Land Surveyors (PLS) and LiDAR and aerial sUAS inspection technology, provide enhanced ability to manage design projects efficiently and maintain high quality. Our staff is experienced in performing field surveying for roadway and site development projects. Our field work facilitates the development of mapping coverage to depict existing conditions and present proposed construction. The data collected also permits the development of a digital terrain model which facilitates design plans. Our field survey procedures are performed using total stations/GPS systems with electronic field book capability or with our mobile LiDAR unit. Field data is collected and electronically transferred to in-house computers where it is compiled, checked, and plotted.

US 11 Shippensburg Streetscape Project, Shippensburg, PA

Description: 3D Mobile Lidar Scanning

Stahl Sheaffer performed 3D mobile LiDAR scanning and acquired survey grade high-resolution mobile LiDAR point cloud data tied to survey control for a streetscape project in Shippensburg. This project mapped approximately 1.5 miles along US Route 11 as well as portions of more than 15 side streets. Following data acquisition, Stahl Sheaffer used specialized mapping software to extract and map all visible features of note within 40 feet of the road right of way centerline up to and including the face of buildings. Following feature extraction, the high-resolution point cloud was used to generate a 3D digital terrain model of the ground surface for use during design.

Lock Haven Signals 3D Mobile LiDAR, SR 150, PennDOT District 2-0, Lock Haven, PA

Description: 3D Mobile Lidar Scanning

Sheaffer performed 3D mobile LiDAR scanning and acquired survey grade high-resolution mobile LiDAR point cloud data tied to survey control for the design of new traffic signals in the town of Lock Haven. This project encompassed 11 intersections and mapped portions of 12 roads. Following data acquisition, Stahl Sheaffer used specialized mapping software to extract and map all visible features of note within 40 feet of the road right of way centerline up to and including the face of buildings. Following feature extraction, the high-resolution point cloud was used to generate a 3D digital terrain model of the ground surface for use during design.

Base Mapping for Penn Energy Resources, Interactive Warning System Design, New Sewickley Township, Beaver County, PA

Description: Surveying, base mapping, and traffic control design

Due to an uncorrectable intersection sight distance issue and township concerns, Stahl Sheaffer was tasked with developing a plan to improve public safety at the intersection of SR 68 and SR 1025 (Zeigler Road/Steinbach Road). The township was then able to construct a compressor station and mitigate the subsequent truck traffic. Stahl Sheaffer developed an interactive warning sign system that would alert motorists on SR 68 approaching the intersection of either traffic entering the roadway from the side streets or of traffic stopped on SR 68 waiting to make a left turn. Stahl Sheaffer worked with PennDOT and the township on the approval of the project and held on-site meetings with the township and surrounding residents to review the system. The system received approval and was implemented in Spring 2016.

3D Topographic Survey and 3D LiDAR Scan Site Improvements, Pleasant Valley Shopping Center, Altoona, PA

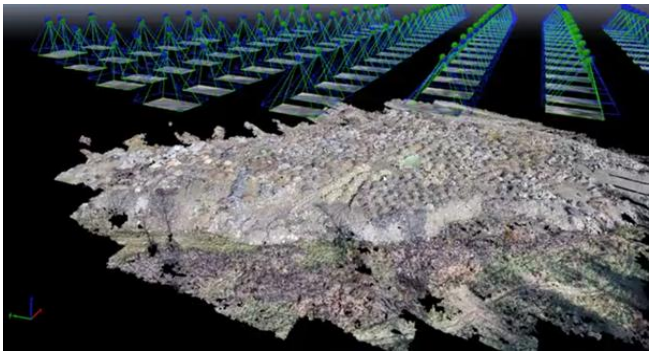
Description: 3D Topographic Survey and 3D LiDAR Scanning

The project included removal of all existing concrete between the shopping center building entrances, and replaced with accessible building entrances, ADA ramps, and parking lot pavement as required compliance. Stahl Sheaffer assisted with site engineering and developed a static 3D topographic survey and 3D LiDAR scan of multiple units within the shopping center for the sidewalk and building entrances located along the front side of the shopping center, which included a frontage of approximately 1,400 LF. This survey formed the basis of design and construction documents defining all work required to correct ADA deficiencies throughout the shopping center.

Landfill Stockpile Aerial Survey, Private Client, Wheeling Landfill, Wheeling, WV

Description: 3D Topographic Survey and 3D LiDAR Scanning

Stahl Sheaffer conducted a supplemental topographic survey for the closure of a landfill. The landfill is approximately 11-12 acres and consists of waste soil, rock, construction and demolition debris, woody debris, asphalt millings, etc. The last time this area was mapped was in 2010, and since then various sources of material have been hauled in for disposal at the landfill area, in some cases exceeding the limits of the project. Much of this material remains in piles. This survey was needed to help establish current site grades, identify material, and estimate site earthwork volumes.



Waste Water Clarifier Aerial Inspection, Chemical Plant, OH

Description: Aerial Inspection & Documentation

A Stahl Sheaffer FAA Part 107 Certified UAV Pilot conducted the flight using the Matrice 210 UAV (Drone) equipped with the high resolution Zenmuse X5S camera to capture the results of a Dye test. The chemical plant's project manager released a bright green dye into the 200 ft clarifier as the drone captured/documented the pre (Figure 2), during (Figures 3 and 4), and post distribution/dissipation (Figure 5). This dye distribution/dissipation was viewed in real time. The dye increased in hue as the rake rotated, confirming that a portion of the clarifier needed maintenance.

Base Mapping for SR 2003 Hoenig Road Improvements, PennDOT District 11-0, Economy Borough, Beaver County, PA

Description: Base mapping, FDR design, roadway design

The project included removal of all existing concrete between the shopping center building entrances, and replaced with accessible building entrances, ADA ramps, and parking lot pavement as required compliance. Stahl Sheaffer assisted with site engineering and developed a static 3D topographic survey and 3D LiDAR scan of multiple units within the shopping center for the sidewalk and building entrances located along the front side of the shopping center, which included a frontage of approximately 1,400 LF. This survey formed the basis of design and construction documents defining all work required to correct ADA deficiencies throughout the shopping center.

3D Mobile LiDAR Scanning for Interstate 81 Wilkes-Barre Dimension Measurements and Realignment, Luzerne County, PA

Description: 3D Topographic Survey and 3D LiDAR Scanning

Stahl Sheaffer performed 3D Mobile LiDAR Scanning and acquired survey grade high-resolution Mobile LiDAR point cloud data tied to survey control for the analysis and realignment of 15 miles of I-81 in Wilkes-Barre, Luzerne County, PA. Stahl Sheaffer Engineering drove 15 miles for four separate passes to total 60 miles, to precisely capture the LiDAR data required for the lane analysis. From this data certain features were extracted and include but are not limited to edge of asphalt, paint lines and concrete separations at the beginning of the project. Spot elevations were also extrapolated every 100 feet in high detailed areas near bridges. Elevations were also extracted every ten feet on bridge decks and bridge run offs along the mainline of the interstate. Stahl Sheaffer also provided survey plan views for the mainline of the interstate in both the North and South directions as well as the required ramp areas.

CR 15 Bridge Replacement Putnam County, WV

Description: Field survey and structural design

Stahl Sheaffer performed field survey and design documents for the replacement of the existing bridge with a new 82'-0" single span prestressed adjacent box beam superstructure supported on reinforced concrete abutments. The bridge was installed using phased construction providing one lane of traffic during construction.

I-64 Merritt's Creek Interchange, WVDOH, Barboursville, WV

Description: Field Survey and 3D LiDAR Scanning

Stahl Sheaffer provided surveying services to aid in interstate widening and upgrade design for I-64. Mobile LiDAR was used to map 3.3 miles of roadway plus ramps and side roads, document underground utilities and produce 3D scans for two bridges. Stahl Sheaffer also conducted supplemental topographical surveying and provided deed and utility research, post construction monumentation, and settlement survey. The total roadway scanned was 16.1 miles including ramps and side roads.

SR 22 Jonestown Road over SR 83, Temporary Excavation Support and Construction Stakeout for Bridge Replacement, Lower Paxton Township, Dauphin County, PA

Stahl Sheaffer served as the Engineer of Record to provide construction Stakeout, temporary excavation support, and protection system for the contractor during construction of SR 22 Jonestown Road over SR 83 bridge replacement project.

Millbrook Marsh Nature Center, Stakeout, State College, PA

Stahl Sheaffer provided full construction stakeout of the parking areas, rain gardens, and stormwater facilities. During construction, deeper than anticipated depth of topsoil was encountered. Stahl Sheaffer quickly revised the plans as construction continued to ensure the project was completed prior to several scheduled events at the Nature Center.

Environmental Services Including Permitting

Stahl Sheaffer's environmental scientists and engineers focus on helping our clients navigate through the environmental regulatory process smoothly and efficiently. Stahl Sheaffer provides environmental services to support regulatory compliance for our projects in land development, transportation, and natural resource enhancements. We understand the potential project delays that often result from the environmental regulatory process and the sensitive nature of certain sites. We focus on identifying the regulatory implications early to avoid unnecessary delays during design and construction. With the use of our technological tools such as handheld GPS, GIS, and field computers, we help save our clients both time and cost. Our comprehensive permitting experience allows us to handle most permitting needs in-house, which in turn provides a more efficient project delivery to our clients.

Wetland K Restoration Monitoring, Brookfield Facility, Trumbull County, OH

Description: Environmental wetland monitoring services for restoration of forested wetland

Stahl Sheaffer provided wetland monitoring services for the restoration of a 0.5-acre forested wetland. The Army Corp of Engineers (ACOE) required restoration due to impacts associated with timber harvesting activities related to natural gas development. The site has been planted with over 400 sapling stage trees consisting of four different wetland adapted species. Stahl Sheaffer performed this wetland monitoring over a five-year period to document the progress of wetland plant growth and survivorship of the planted trees. Tasks completed during monitoring activities include hydrophytic plant identification and sampling within a 10m quadrant, photographic history, and a tree inventory and health evaluation of each planted tree. The data collected at the site was compiled into a wetland monitoring report and submitted to the US Army Corps of Engineers, Pittsburgh District office. Additional responsibilities include verifying proper seeding and mulching during restoration activities.

Centre Region Parks & Recreation Oak Hall Regional Park, Land Development, State College, PA

Description: Site engineering, stormwater analysis, sanitary service, grading, and traffic impacts for regional park

Stahl Sheaffer provided the land development for the creation of a master plan for Oak Hall Park, a 51-acre regional park in State College. Park facilities include four diamond fields, a restroom and concession building, a perimeter walking trail, parking areas, plantings, and benches. A future phase will include a playground, shelters, and dog park. Stahl Sheaffer's specific roles included analysis of stormwater, sanitary service, grading, traffic impacts for the improvements to the site, as well as all zoning and municipal approvals. The project is situated at an elevation several hundred feet above the wooded surrounding area, and therefore required a unique approach for stormwater management, including the incorporation of rain gardens and landscaped drainage swales. All stormwater and drainage features are functioning well after several years of park use.

Bellefonte to Milesburg Trail Feasibility Study, Centre County Board of Commissioners, Centre County, PA

Description: Land development, environmental resource consultation, and bridge analysis

Stahl Sheaffer provided civil engineering and environmental consulting services for the feasibility study and pre-construction analysis of a new 2.5-mile multi-purpose trail from Bellefonte to Milesburg, PA. This trail was anticipated to follow the internationally acclaimed Spring Creek and the historic alignment of the Bald Eagle and Spring Creek Canal. The study resulted in a report for the Centre County

Commissioners documenting and defining preferred trail and bridge alignment and outlining required permitting, necessary easements, right-of-way acquisitions, and environmental/historic impacts requiring study. Stahl Sheaffer was responsible for site engineering, bridge alignment, right-of-way acquisition process, identification of environmental constraints, utility relocation (if necessary), environmental permitting, and coordination with PennDOT.

Liberty Hollow Trail, Northumberland Borough, Northumberland County, PA

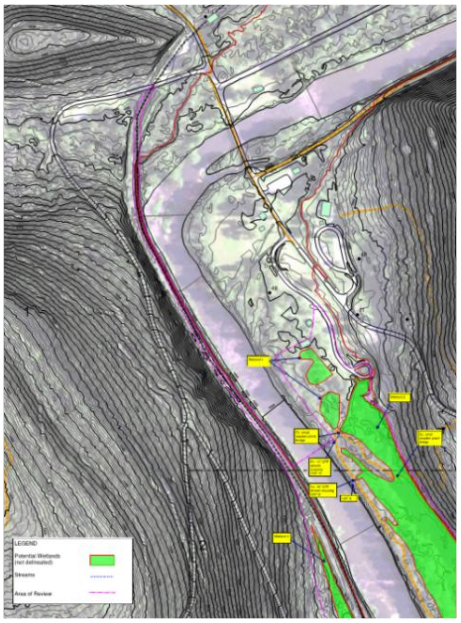
Description: Permitting, site design, and surveying

The Liberty Hollow Trail project consisted of the design of a new pedestrian trail along an existing sewer line right-of-way to form a connection between Washington Avenue and Susquehanna Road in Northumberland Borough. Stahl Sheaffer provided surveying, stormwater design, wetland delineation, and permitting services. Wetlands were present along a portion of the corridor. Impacts were minimized which allowed for the use of a General Permit-7 Minor Road Crossing permit for a section of trail crossing the wetland.

Oil Creek State Park Bike Trail Extension Feasibility Study, Venango County, PA

Description: Environmental feasibility and engineering

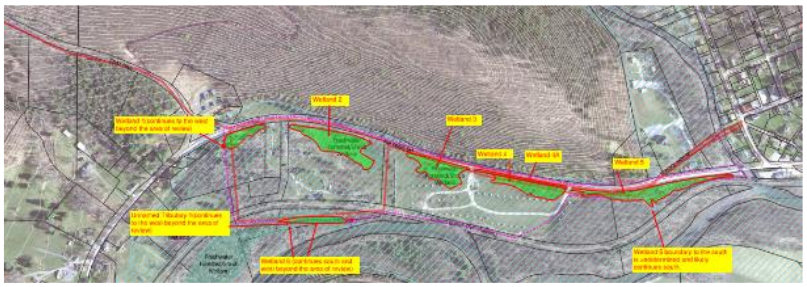
Stahl Sheaffer has completed an engineering and environmental feasibility study for the Oil Creek Bike Trail Extension. The study was completed to assist in siting and budgeting of a trail proposed to connect an area near the park office to Route 8 approximately 3.75 miles to the south. The trail is planned to interweave among historical workings of the oil industry. Tasks completed for the study included roadway and trail design considerations, bridge review, public utility coordination and environmental constraints review and mapping. Five conceptual trail routes were reviewed which included the following features and design considerations:



- Six bridges and a box culvert
- New elevated walkway adjacent to a state road and Oil Creek.
- State Route geometry adjustments
- Trail construction in a bouldery hillslope
- Wetland avoidance and impact minimization
- Coordination with the PUC for two new rail line crossings
- The following items were addressed and presented in a feasibility report:
- Bridges: Recommended type, constructability, and cost estimate.
- Trail: Soils, slopes, existing roadway constraints, excavation concerns, cost estimates, stormwater, and groundwater management.
- Public Utility Commission coordination for the feasilitiy of two new rail line crossings.
- Environmental: wetland and stream identification and cursory mapping, threatened and endangered species concerns, environmental stormwater and encroachment permitting needs, and cost estimates.

Elk County ATV Feasibility Study, Village of Byrnedale and Benezette, Elk County, PA

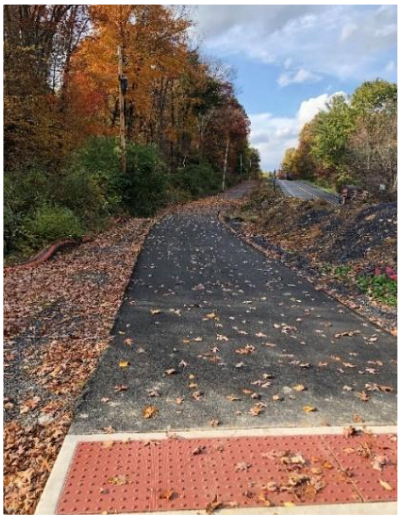
Description: Environmental constraints identification and water resource mapping



Stahl Sheaffer completed a cursory environmental constraints review and water resource mapping for two potential trail sections for the Elk County Riders trail group. Identification of environmental constraints included wetlands, streams, cultural resources, and threatened and endangered species. Stahl Sheaffer also evaluated potential waterway permitting needs for the 1.9 miles of alternative alignments and a total review area of approximately 47 acres. The identified constraints and mapping will be used to plan trail alignments and estimate construction cost.

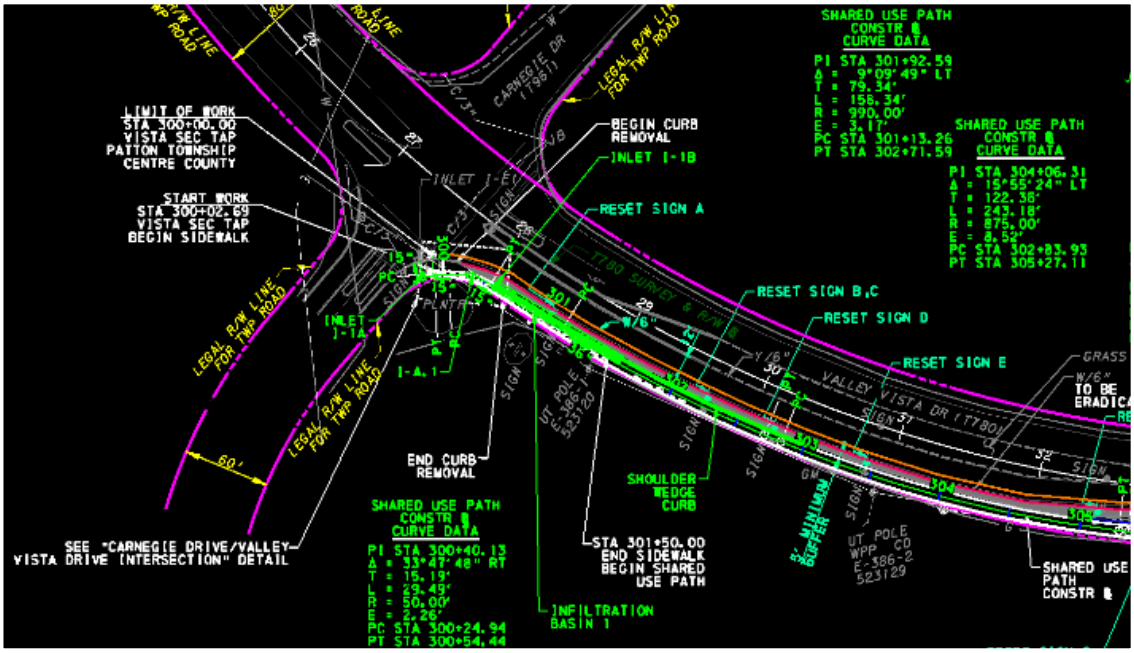
Valley Vista Shared Use Path, Patton & Ferguson Townships, State College, PA

Description: Environmental clearance, survey, ROW, utility coordination, plans preparation



Stahl Sheaffer coordinated designed a shared use path along 1.8 miles of Valley Vista Drive and Circleville Road in both Patton and Ferguson Townships. Services include:

- Surveying
- Environmental clearance support
- Utility coordination
- Preliminary and final plans preparation
- Public involvement meetings
- Revisions to existing traffic signal permit drawings
- Infiltration testing
- ADA ramp design
- PS&E package preparation
- NPDES permit preparation
- Construction consultation



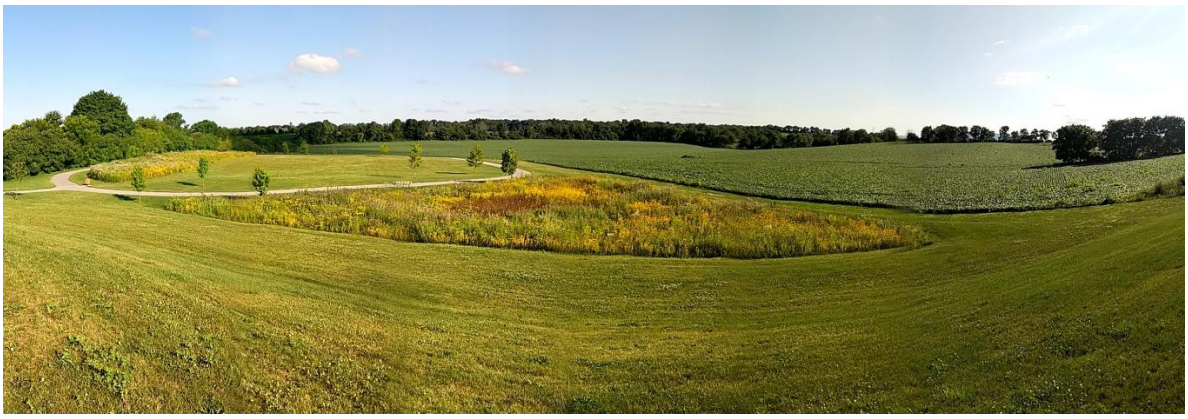
Stormwater Pollution Prevention Plan (SWPPP) Review and Inspection

Stahl Sheaffer can review existing stormwater facilities to identify causes of run-off pollution, recognize areas prone to flooding or standing water, or evaluate the overall condition of the existing stormwater management facilities. We work closely with stakeholders to address any stormwater issues to find the best and most economical solution. Stahl Sheaffer can develop maintenance programs that take a proactive approach to assessing and identifying problems within existing stormwater management facilities. These programs provide an approach that aims to minimize overall cost as well as maintain the overall functionality of the system. We can also provide necessary educational aspects to communities per MS4 permitting requirements.

Ferguson Township Westfield Hillside Park, Phase 1 Stormwater, State College, PA

Description: Site engineering and permitting for stormwater management design

Stahl Sheaffer provided site engineering and permitting services required to design the stormwater management and erosion & sediment control plans for Phase 1 of the Westfield Hillside Park in Ferguson Township. The project scope included a hiking trail network, playground, restroom facility, gazebo, gardens and street trees, sledding hill, and multi-use field. Stahl Sheaffer developed a grading and stormwater layout that maximized the infiltration capabilities of the native soils by minimizing grading and site disturbance in the bottom of the retention facilities. Soil infiltration testing was also completed to meet the PA DEP permitting requirements.



Sandy Lick Creek Phase II Rehabilitation, City of DuBois, Clearfield County, PA

Description: Stormwater management, construction oversight

Stahl Sheaffer provided construction oversight for the Sandy Lick Creek Phase II Rehabilitation project for the City of DuBois. Stahl Sheaffer was a valuable resource for quality completion of the project since the Stahl Sheaffer environmental staff was intricately involved in the design of the project in 2014. As a result of this involvement, the project team had a deep understanding of the construction techniques. The project was funded through a PA DEP Growing Greener Grant. PA DEP and the Army Corp Pittsburgh District Regulatory sections authorized the construction activities for the project.

Sediment deposition and bank erosion had caused a reduction in flood carrying capacity in Sandy Lick Creek. In addition, a sewer line and heavily used pedestrian walkway were in danger of

being damaged. The Phase II rehabilitation project consisted of the restoration of 1,000-LF of stream channel to original flood carrying capacity and protection of City utilities and walkway assets. Streambank restoration, sediment bar removal, and fish habitat enhancement were specified to accomplish this goal. Rock cross vanes, rock J-hooks, and random boulders were installed to provide fish habitat enhancement for this trout stocked waterway.

Stahl Sheaffer prepared technical specifications and performed a review of the technical specifications provided by the City of DuBois. Stahl Sheaffer provided customary inspection of construction materials, approved rock types and sizes, and guided the installation of rock vanes to affirm that construction was completed in accordance with the approved plans and specifications.

TLPOA Stormwater Management, Treasure Lake Property Owners Association Stormwater Management Strategic Plan, DuBois, PA

Description: Stormwater management plan

Stahl Sheaffer Engineering provided civil and environmental engineering services to support the Treasure Lake Stormwater Management Strategic Plan. The purpose of the plan was to serve as a guidance document for the Treasure Lake Property Owners Association (TLPOA), improve stormwater management infrastructure and decision making, and protect property.

Stahl Sheaffer verified types of existing infrastructure including ditches, swales, channels, culverts including stream crossing structures, and catch basins and storm drains. Stahl Sheaffer also identified potential causes of sedimentation from stormwater into lakes and streams, the overall condition of the existing stormwater management infrastructure, main sources of floodflow capture and retention, and passive areas and the benefits they provide. Concerns, including the need for ditch cleaning, structural maintenance, proper culvert installation, and floodwater control were also identified as well as strategies for property managers.

Millbrook Marsh Nature Center, Stakeout, State College, PA

Description: Full construction stakeout of parking areas, rain gardens, and stormwater facilities of the Nature Center

Stahl Sheaffer provided full construction stakeout of the parking areas, rain gardens, and stormwater facilities. During construction, deeper than anticipated depth of topsoil was encountered. Stahl Sheaffer quickly revised the plans as construction continued to ensure the project was completed prior to several scheduled events at the Nature Center.

Brandon Park Rehabilitation, The City of Williamsport, Lycoming County, PA

Description: Permitting, surveying, and site engineering design

Stahl Sheaffer provided project management, subconsultant coordination, and design services as the lead consultant for the Brandon Park Rehabilitation, located in the City of Williamsport, Lycoming County. The park rehabilitation project included improvements and additions throughout the park, to include a nature playground, walking trails, parking lot overlay and expansion, park site lighting, stormwater bioretention areas, and tennis court resurfacing. This project was also one of PA DCNR's pilot Nature Play projects in the state, exploring the potential of this type of recreational experience to connect children with their natural environment. The nature play area incorporated natural play materials such as log structures and stone and gravel play areas, a homestead play house, an edible garden and native plantings, and interpretive signage. There are also opportunities for future build-out in the center of the play space for a natural play structure.

Stahl Sheaffer led the overall design effort and managed the project team, including a landscape architecture consultant to design the Nature Play area. The project began in the conceptual stages and included coordination with City staff and officials before moving to final design. Following conceptual design, the project moved to final design and coordination with PA DCNR to facilitate the grant funding process. Stahl Sheaffer also managed the permitting requirements for the project, which included a Stormwater NPDES permit and PA Labor & Industry permit.

Northumberland Borough Streambank Enhancement, Northumberland County, PA

Description: Land development, permitting and field survey

Stahl Sheaffer provided land development services, surveying, and permitting for the Northumberland Borough streambank enhancement located along the Susquehanna River between the Route 147 bridge and Pineknotter Park. The project included the construction of a walking trail, fishing pier, parking area and boat launch improvements, picnic areas, stormwater improvements, and preparation of construction documents.

Construction Administration and Inspection

Stahl Sheaffer can assist Summit County with the bidding process by providing necessary bid documents, plans, and technical specifications needed to complete a project. Our staff can assist throughout the entire construction process, starting with the bid advertisement, attending bid openings and progress meetings, performing periodic field visits, and completing the final walk through and punch list. Stahl Sheaffer can also provide inspection services with our construction inspectors, who have a valuable combination of practical field experience and technical understanding of a project. They serve as a point of contact for communication between owner and contractor to ensure construction schedules are updated and reviewed biweekly, preventing delays jeopardizing completion dates. Our inspectors maintain current certification in areas of expertise (NICET, NECEPT, ACI, etc.), and we provide in-house and industry training to ensure they have current knowledge and expertise.

PA Department of Conservation & Natural Resources (DCNR), Construction Management & Inspection, State-wide, PA

Stahl Sheaffer holds an open-end contract to perform construction management on various bridge, site, and building projects on state forest/park lands. Inspectors are responsible for:

- Attending preconstruction conferences and regular job conferences with the Department and contractor for each project.
- Keeping records.
- Documenting construction work.
- Providing site inspection.
- Preparing current and final estimates for payment to the contractor.
- Assisting the Department in obtaining compliance with labor standards, safety and accident prevention, and equal opportunity provisions of the contract.
- Performing other duties as required.
- Assembling all pertinent construction data into a manual for submission on all bridge construction projects.

Following are representative examples:

Medix Run Bridge Replacement – Inspection of demolition of existing steel I-beam bridge on stone masonry abutments with a 15'-2" clear span, to be replaced with a precast reinforced concrete box culvert and precast concrete end sections with an 18 foot clear roadway width.
Laurel Run Box Culvert – Inspection of demolition of existing steel beam bridge with nail laminated deck to be replaced with precast reinforced concrete box culvert and precast concrete end sections with 18' clear roadway width.
Reeds Gap State Park – Inspection of all general construction work consisting of site work, leakage testing, excavation, leakage testing, construction, demolition of existing structures, and performance testing.

Streetscape Light Inspection, Selinsgrove Borough, Selinsgrove, PA

Description: Construction inspection

Stahl Sheaffer provided construction inspection services for the installation of 24 ornamental streetlights in Selinsgrove, providing illumination and increased pedestrian safety in this central business district. The third phase of this TAP project placed the antique-style lamps north on Market Street between West Snyder and Spruce Streets and along East Pine Street from Market Street to the bridge crossing into the Isle of Que. Forty-eight lights were added in earlier phases of this project, which began in 2005.

Lawn Service Plaza Auxiliary Parking Lot, PA Turnpike Commission, MP 258.77 WB, Dauphin & Lebanon Co., PA

Description: Construction management

The Pennsylvania Turnpike Commission has an ongoing strategy to increase truck parking for service plazas. The Lawn Service Plaza was selected to provide much needed capacity and added 77 tractor trailer parking spaces. Stahl Sheaffer's role consisted of representing the PTC, overseeing the contractor and inspectors during the project, report writing, and plan and specification review. The scope of work includes preparing suitable subgrade, electrical and lighting improvements, and paving over 10,000 CY of concrete.

Construction Inspection for Highway Lighting & ADA Ramp Installation, PennDOT District 3-0, Northumberland County, PA

Description: Construction management

As part of an open-end agreement for PennDOT District 3-0, Stahl Sheaffer provided construction inspection for the installation of a highway lighting system and ADA curb ramps. Inspection on the project covered excavation, plain cement concrete curb, sidewalk, detectable warning surface, underground cable, conduit, complete power supply system, trench and backfill, steel junction boxes, decorative lighting poles, light pole foundation, period style LED post top, and other miscellaneous construction in the City of Sunbury.

Millmont Covered Bridge Rehabilitation, PennDOT District 3-0, Union County, PA

Description: Construction inspection

This project involved construction inspection for an intensive rehabilitation of this covered bridge over Penns Creek. Project details included capping existing abutments, new piers, structural timber repairs, structural steel placement, separation of superstructure from substructure, roof replacement, installation of timber decking and running boards, and paving of approaches. Stahl Sheaffer provided construction inspection, including on-site Quality Control, assisting in the preparation of authorizations, work orders and estimates as needed, and visited each job site a minimum of once a week.

Penn Highlands Access Road, City of DuBois, Clearfield County, PA

Description: Roadway design and stormwater management

Stahl Sheaffer is providing engineering design services for roadway and stormwater management improvements for access roads to Penn Highlands DuBois Behavioral Health East expansion. The project consists of improving four separate roadways leading to Penn Highlands to improve access from Maple Avenue. Stahl Sheaffer's role consists of providing roadway design, stormwater design, environmental permit preparation, utility coordination, bid document preparation, and cost estimating.

PennDOT District 2-0 Atherton Street Improvements, State College, PA

Description: Traffic Signal Upgrades & Roadway Design

This project scope was focused on upgrading deteriorated drainage facilities, pavement rehabilitation, curb and sidewalk replacements, and traffic signal upgrades from Colonnade Way to Aaron Drive. The phased traffic control schemes centered on maintaining access to existing businesses. Fourteen separate utility companies were present along this corridor, resulting in complex utility coordination. However, most utilities were able to be avoided and minimal relocations resulted, eliminating potential schedule delays. The project limits were increased on this project three months prior to advertisement. The team was able to incorporate the additional improvements (approximate 0.5-mile additional roadway improvements, six additional temporary and permanent traffic signal designs, and additional utility impacts) and exceed the original let date of the project by two weeks to facilitate construction phasing/scheduling of emergency repairs.

Roadway Design & Management

Stahl Sheaffer provides engineering services for roadway design projects ranging from overlays of local roads to the overall design of complex highway projects. Our staff oversees projects starting with the initial design field views to public comment through construction completion. During design, we address any drainage issues and utility coordination associated with the project, devise any traffic control plans if necessary, and create the proper erosion and sedimentation plan needed to successfully complete the project.

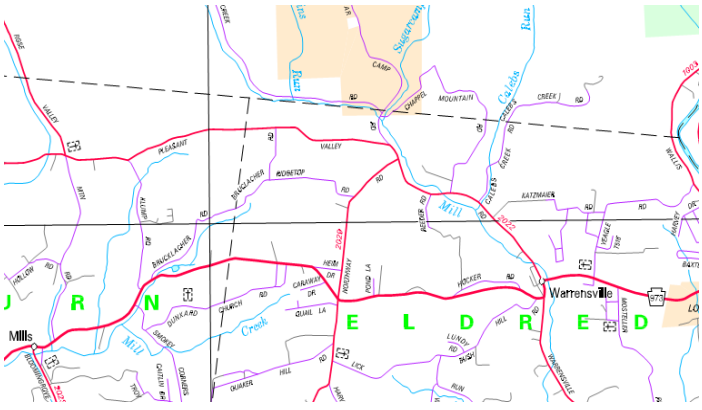
Stahl Sheaffer provides roadway engineering and management services including:

- Highway design
- Preparation of plans, specifications, and estimates
- GIS applications
- Roadway analysis
- Reconstruction design
- Transportation management plans
- Roadway condition inspections and reports
- HD video log of roadway condition
- Development of an initial Pavement Condition Index (PCI)
- Gravel road analysis, as applicable
- Access route planning
- Permit applications
- Geotechnical and pavement analysis
- Roadway maintenance construction inspection
- Highway occupancy permit (HOP) applications
- Administration of EMA's / RUMA's
- Evaluation of safety issues and mitigations

Stahl Sheaffer has developed proprietary technology applications that can be used to document pre- and post-haul damage, support roadway management plans, and budget for roadway maintenance. Stahl Sheaffer evaluates the severity, type, location, and size of roadway defects and estimates the repair costs to fix roadway damage. A *Roadway Evaluation Report* documents the condition of the roadway and includes an analysis of the most cost-effective maintenance strategy.

SR 2022 Pleasant Valley Road Improvements, Private Energy Client, Lycoming County, PA

Description: Roadway design and safety survey



The Pleasant Valley Road Project was a public/private partnership where Stahl Sheaffer Engineering, representing a private energy operator, partnered with PennDOT District 3-0 to complete improvements on Pleasant Valley Road from Segment 0210 to Segment 0260. Stahl Sheaffer performed a safety analysis of the project, resulting in sight distance improvements and super elevation corrections. The project also included a replacement of a 4' wide flexible base on the outer wheel path of each travel lane, 4" depth structural overlay over

the entire width of the roadway, curve widening, roadway striping, guide rail replacement, shoulder backup, and drainage improvements.

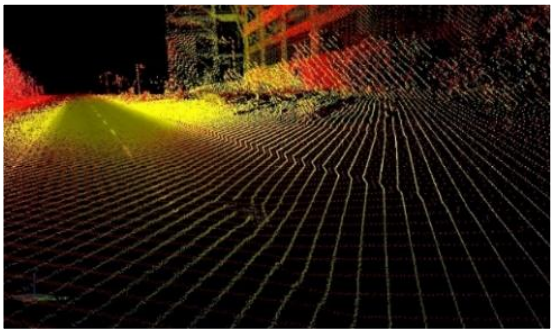
Stahl Sheaffer utilized the advanced technology of mobile LiDAR scanning and 360° imagery to identify obstructions, complete base mapping, and provide a Clear Zone Analysis of the road segment. The data was compiled into a list of recommendations that indicated priority level, location, description, improvement, and cost. The list prioritized safety and met the standards of PennDOT as well as AASHTO rural community road criteria.

Stahl Sheaffer also provided construction layout support and periodically monitored construction progression to ensure all project goals were met.

Roadway Asset Management, The Pennsylvania State University, University Park & Satellite Campuses, PA

Description: Roadway condition analysis, LiDAR Data Collection, LRS, and repair prioritization tool

Penn State implemented a roadway maintenance prioritization system to strategically plan roadway maintenance and oversee roadway assets over a 20-year cycle. The project required development of a linear Location Reference System (LRS) for the main campus roadway network and satellite facility networks (approximately 100 miles). A roadway condition survey for each roadway segment was conducted, resulting in a numeric condition index. The condition rating was used in conjunction with a criticality rating, a customized deterioration model, and standard maintenance and repair options to develop an ordered list of maintenance projects.



To fully document and archive the condition of the roadway surfaces, Stahl Sheaffer Engineering completed 3D LiDAR scans, georeferenced high-definition videos, and 360° imagery of all 100 miles of Penn State's roadway networks. The scans and imagery were then used to assess 312 roadway segments, including features and surface deficiency. Among the attributes extracted were curbs, sidewalks, ADA ramps, bus pull-off areas, intersection sight distance sufficiency, and parallel drainage ditches. The information collected and archived for each feature was customized to reflect relevant attributes and numeric condition rating. All features are georeferenced, compatible with Geographic Information Systems (GIS), and easily located by the LRS ID number and station offset.

The tool allows for various funding scenarios to be analyzed. Budgets can be predetermined based on funding availability or calculated based on the need to maintain assets at a certain service level. The versatility of the tool is perfect for managing a maintenance budget and schedule because it can provide useful data according to different scenarios, including:

- Resulting roadway network health over time with repairs that fit into established annual budget, OR
- Budget needed to maintain network in a desired state of health (i.e., 85% PCI or "Good") over a specified period of time.

It can be adjusted to view either scenario or different budget amounts and recalculates automatically according to those inputs as well as completed repairs or date changes to accommodate bundled construction projects.

Bridge Design & Inspection

Stahl Sheaffer provides structural engineering for bridge design of all construction types and span arrangements. Our staff includes professional engineers dedicated to bridge engineering, Certified Bridge Safety Inspectors (CBSI), and Nationally Certified Tunnel Inspectors (NCTI) experienced in designing and inspecting structures for state agencies and various municipalities. Our staff has designed hundreds of bridges, ranging from eight feet to over 3,000 feet in length. For projects with townships, counties, and boroughs the funding mechanisms have included Liquid Fuels Funds, General Funds, Retroactive Reimbursements, and both Federal and State Funding Participation. Stahl Sheaffer understands the requirements of the various funding mechanisms and can ensure that those requirements are satisfied. Stahl Sheaffer also has staff with extensive experience in completing bridge, tunnel, and sign structure safety inspections in accordance with the National Bridge Safety Inspection (NBIS) program and the National Tunnel Inspection Standards (NTIS). Our CBSI- and NCTI-certified staff has completed routine, in-depth, and emergency (flood or accident) inspections, load rating analysis, and emergency repair recommendations for bridges and tunnels of various constructions, spans, and lengths.

CUY-87-15.12 (PID 21806), ODOT District 12, Village of Moreland Hills, OH

Description: Bridge removal feasibility study and design for a replacement structure

Stahl Sheaffer was selected to study the removal of an 85-year old concrete frame bridge that once provided bridle trail access underneath SR87. The 30 ft. arch-topped cast-in-place frame straddles a similar-aged box culvert below that conveys a tributary of Griswold Creek. The programmed construction cost for the project is $1,020,000. This culvert was inspected, and load rated and found insufficient to carry the new embankment and modern truck loads. Stahl Sheaffer is currently developing Stage 2 Plans which include a bridge site plan, partial demolition plans, excavation limits, and the layout of the new cast-in-place box culvert.

GEA-166-1.08 L/R (PID 104099), ODOT District 12, Geauga County, OH

Description: Culvert feasibility study and replacement design

Stahl Sheaffer's first project with the Ohio Department of Transportation, GEA-166-01.08, is a twin-pipe structure replacement beneath SR 166 in Hambden Township. Stahl Sheaffer's bridge group teamed with additional firms to replace the original twin-pipe structure built in 1961 with a four-sided concrete box culvert. As part of the scope, Stahl Sheaffer performed hydraulic studies with several combinations of grade changes and box sections, in an attempt to reduce the culvert's span to below 10 ft., so the district can remove it from ODOT's bridge inventory and the burden of annual inspections.

Snyder County NBIS Bridge Inspections, Snyder County, PA

Description: Bridge inspections

Stahl Sheaffer was designated as the Snyder County Engineer for the completion of NBIS bridge safety inspections. Stahl Sheaffer has completed two five-year contracts with the County to perform these services; 2010-2014 and 2015 to 2019; and is currently performing these same services under a contract with District 3-0. The scope of work included routine, in-depth, and interim inspections of 32 county and municipality owned structures. All inspections were completed using PennDOT's BMS2 system and i-forms. The NBIS inspection reports were submitted for review and approval by PennDOT Engineering District 3-0 and then presented to the structure owners during individual meetings.

Snyder County Bridge Repair Contract, Snyder County, PA

Description: Bridge repair and maintenance

Stahl Sheaffer prepared contracts for repair and maintenance items on 22 township-owned and four county-owned bridges located throughout Snyder County. Work items included resealing deck joints, removal of vegetation and debris, brush cutting to clear signage, replacement and/or resetting of signage, concrete deck repairs, cleaning and flushing of decks and bearings, repair or replacement of deck wearing surfaces, curb/parapet repairs, patching and/or raising of approach pavements, reconstruction of shoulders, and improvements to off bridge drainage.

PA Department of Conservation & Natural Resources (DCNR), Open-end Bridge Design, State-wide, PA

Description: Bridge Replacement Design

Stahl Sheaffer under an open-end agreement with DCNR for bridge design, was assigned one state park and three state forestry bridge/ culvert projects. Since then, Stahl Sheaffer was assigned 43 projects under 33 work orders. Stahl Sheaffer also performed NBIS inspections and construction management under separate open-end contracts for DCNR.

As part of this contract, Stahl Sheaffer also completed and/or is designing multiple slide repair projects under four work orders, including:

- Work Order 27 (Slate Run Road) – two slides completed.
- Work Order 28 (Beech Creek Road) – one slide completed.
- Work Order 29 (Raccoon Creek State Creek) – four slide areas in construction: one retaining wall and three embankment reconstructions.

West Virginia Roadway Improvement Initiative, Various Counties, WV

Description: Roadway improvement and bridge replacement design

Stahl Sheaffer was the lead design engineering firm on a project that included various public roadway improvement projects totaling 183 miles located in WVDOT/DOH Districts (1, 2, 3, 4, & 6). The work involved approximately 100 roadway upgrade projects, 8 bridge replacement or rehabilitation projects, 2 aluminum box culverts, numerous slide repairs, and assisting in the construction management of these roadway improvement and bridge projects as part of the scope. Stahl Sheaffer completed the geotechnical inspection and design, survey, design, DOT permitting, environmental permitting, and project bidding. Traffic engineering services included evaluating safety features of existing roadways and proposed driveways, developing traffic control plans, and signing and pavement marking plans for construction. Stahl Sheaffer assisted in the construction of the roadway improvements in less than 12 months from Notice to Proceed. Several of the projects involved complete reconstruction of West Virginia county routes to accommodate construction vehicles needed to access the proposed location of the MXP pipeline that is currently under construction in this area. Reconstruction methods involved a combination of FDR with asphalt overlay as well as complete aggregate overlay of the existing routes.

SR 2006 A01 over Mackey Run Bridge Replacement, PennDOT District 2-0, Harris Township, Centre County, PA

Description: Structural engineering for bridge replacement

Stahl Sheaffer as the prime consultant, completed Agreement E01385 SR 2006, Section A01 over Unnamed Tributary to Cedar Run Bridge Replacement, Centre County in 2010. The project involved the construction of a box culvert and stream relocation to replace a load posted structure and improve hydraulic performance in this flood-prone area. To arrive at the preferred alternative, Stahl Sheaffer evaluated all options and chose the one that provides the greatest number of benefits, including: meeting the majority of design criteria, improving safety, minimizing right-of-way and utility impacts, removing hydraulic obstructions, improving flooding elevations, minimizing disruptions to residential property access during construction, and improving fish passage.

On this project, Stahl Sheaffer managed and/or performed all aspects of the transportation development process, including archaeology, historic resources, stream relocation, public involvement, utility coordination and relocation, alternative studies, 4(f) resources, agricultural resources, 2-D hydraulic analysis, and traffic calming measures. Stahl Sheaffer facilitated ten well attended, highly publicized public meetings and obtained public input in the development of alternatives.

Project Delivery Plan

The construction schedules for each assignment will be developed jointly with WVDEP to assure that the agencies' goals and objectives will be met in the required timeframe. Construction sequencing, utility relocations, material lead times, erection/demolition, and environmental commitments will be considered when developing the schedule.

Our project management approach and commitment to quality allow us to successfully deliver projects that will meet WVDNR's needs. **Mr. Robert Milne, P.E., Regional Manager, will serve as Project Manager** and personally oversee the quality of all deliverables. Mr. Milne has prior experience working with the WVDEP on multiple projects as well as experience in the design of related projects. Mr. Milne will be the primary contact with the WVDEP and will work directly with team members to develop a plan that satisfies the needs of this agreement. The plan will provide clear guidance to direct our team from the initial stages of project development to project closeout. Our plan, based on Stahl Sheaffer's Company Quality Control Plan that contains our company-wide quality policy and objectives, will be developed specifically for the intricacies of this agreement. This plan will define standard operating procedures, design and checking procedures, documentation, and requirements that need to be independently addressed by the designer. We will clearly define scope and budget at project outset and communicate this to all team members, establish deliverables with defined milestone dates, identify project personnel roles, and develop a clear communication plan.

Stahl Sheaffer requires that all deliverables are checked by an independent reviewer prior to submission. We require our subconsultants to check their work per their quality management system prior to submission to us, and we check their work internally to meet our standards for quality prior to submission to the WVDEP. Stahl Sheaffer's discipline managers will review all deliverables in accordance to their technical expertise. **Mr. Paul McClellan, P.E.**, will review all land development and stormwater management items. **Jason Reed** will review all environmental and permitting submissions. **Mr. Chad Shaffer, PLS** will review all survey work.

Stahl Sheaffer COAs

WEST VIRGINIA BOARD OF PROFESSIONAL SURVEYORS

Certificate of Authorization

Stahl Shaeffer Engineering, Inc.

Morgantown, WV

CERTIFICATE OF AUTHORIZATION # 25-5967

This certificate is issued by the West Virginia Board of Professional Surveyors in accordance with W.Va. Code §30-13A-20
The person or organization identified on this certificate is licensed to conduct professional surveying and mapping services in the State of West Virginia for the period

January 1, 2025 through December 31, 2025

This certificate is not transferable and must be displayed at the office location for which issued.

In witness whereof, I have put my hand, this 09 day of January 25

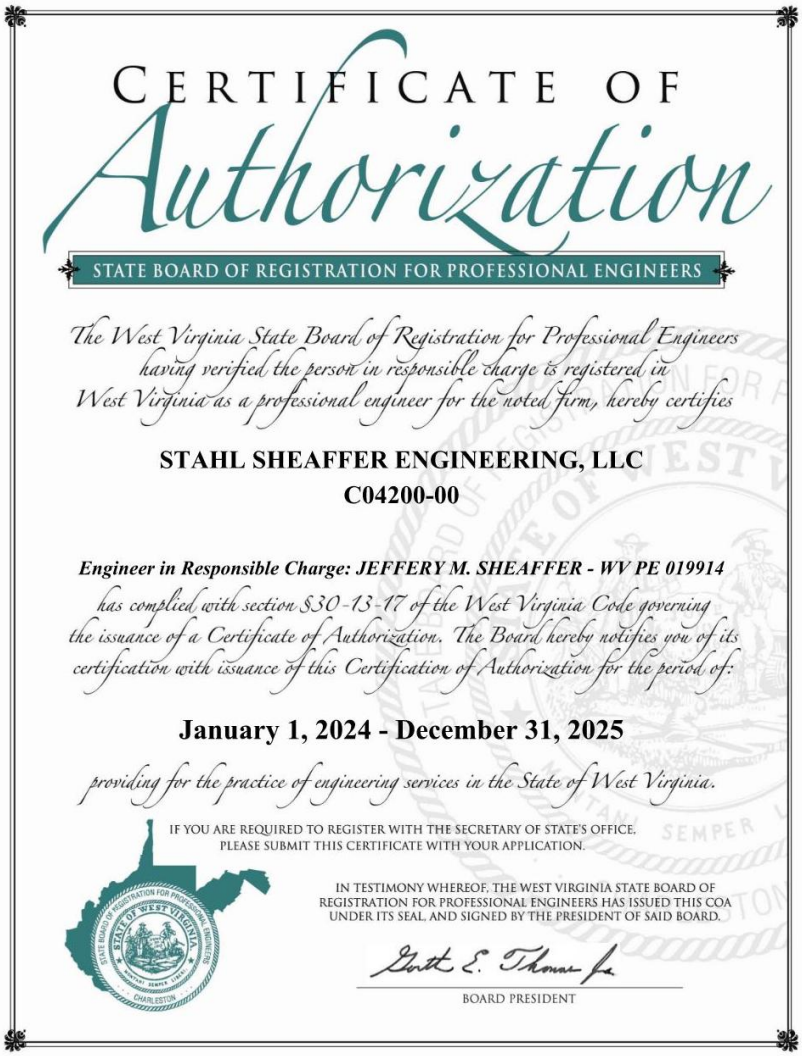
2025

Sefton R. Stewart, P.S., Chairman
Lantz G. Rankin, P.S., Member

James T. Rayburn, P.S., Secretary
Gary Facemyer, P.E, P.S., Member

Douglas C. McElwee, Esq.

Public Member



CERTIFICATE OF

Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

STAHL SHEAFFER ENGINEERING, LLC
C04200-00

Engineer in Responsible Charge: JEFFERY M. SHEAFFER - WV PE 019914

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

January 1, 2024 - December 31, 2025

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE, PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS
RIGHT OF WAY CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE

1. FIRM NAME **O. R. Colan Associates, LLC**	DATE (Day, Month, Year) **August 15, 2025**
2. PRIMARY OFFICE BUSINESS ADDRESS **22710 Fairview Center Drive, Fairview Park, OH 44126**	3. F.E.I.N. **01-0780018**

4. PRIMARY OFFICE TELEPHONE	5. ESTABLISHED (Year)	6. TYPE OWNERSHIP	6a. MINORITY OWNED
888-420-4090, ext. 201	**1969**	☐ Individual ☐ Corporation ☐ Partnership ☐ Joint-Venture **X Other Limited Liability Company**	☐ YES (Submit Documentation) **X NO**

7. PRESENT OFFICES: Address/Telephone/Person-In-Charge/Number of Personnel in Each Offic

8. NAMES OF PRINCIPAL OFFICIALS OR MEMBERS OF FIRM
Stephen J. Toth – Chief Executive Officer
Richard McNally – Chief Operations Officer
Carmen Johnson – Chief Financial Officer **Tracy Jones – Divisional Director**

9. PERSONNEL BY DISCIPLINE:

0 APPRAISERS ()	____ ECONOMISTS	____ PLANNERS-URBAN/REGIONAL	**20** SECRETARIES
0 REVIEW APPRAISERS ()	____ ENVIRONMENTALISTS	**80** PROJECT MANAGERS	**20** OTHER **Various corporate/support staff**
____ DRAFTSMEN	____ ESTIMATORS	**20** PROPERTY MANAGERS	**260+** TOTAL PERSONNEL
	100 NEGOTIATORS	**60** RELOCATION SPECIALISTS	**Some field staff personnel perform negotiations, relocations, and property management.**

10. IF SUBMITTAL IS BY JOINT-VENTURE, LIST PARTICIPATING FIRMS & OUTLINE SPECIFIC AREAS OF RESPONSIBILITIES (INCLUDING ADMINISTRATIVE, TECHNICAL, & FINANCIAL) FOR EACH FIRM. (Each Participating Firm Must Complete "Right of Way Consultant Qualification Questionnaire" If Copy Is Not On File With Department.) **N/A**

10a. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? ☐ YES ☐ NO DATE_____ LOCATION _____

11. AFFILIATED KEY CONSULTANTS/ASSOCIATES ANTICIPATED TO BE USED. Attach "Right Of Way Consultant Confidential Qualification Questionnaire" For Each If Copy Is Not On File With Department.

NAME AND ADDRESS	SPECIALTY	WORKED WITH BEFORE
(1) **E.L. Robison Engineering Co.**	**Roadway Engineering**	X YES ☐ NO

12. A. Is your company experienced in Negotiations?

X YES Describe: O. R. Colan Associates, LLC (ORC) has provided management of land acquisition programs for public agencies since 1969, and we are recognized nationally in the field of right-of-way acquisition and relocation assistance for projects implemented under the provisions of the Uniform Relocation and Real Property Acquisition Policies Act of 1970 (Public Law 91-646, as amended); Title 49 Code of Federal Regulations Part 24; FTA Circulars 5010 and 5200, Housing & Community Development Act of 1974, and FAA Order 5100.37B, Land Acquisition and Relocation for Airport Development Projects. **Nationwide, ORC has acquired more than $3.5 billion of real property for public agencies and has**

B. Is your company experienced in Relocation?

X YES Describe: O. R. Colan Associates, LLC (ORC) has provided management of land acquisition programs for public agencies since 1969, and we are recognized nationally in the field of right-of-way acquisition and relocation assistance for projects implemented under the provisions of the Uniform Relocation and Real Property Acquisition Policies Act of 1970 (Public Law 91-646, as amended); Title 49 Code of Federal Regulations Part 24; FTA Circulars 5010 and 5200, Housing & Community Development Act of 1974, and FAA Order 5100.37B, Land Acquisition and Relocation for Airport Development Projects. **Nationwide, ORC has acquired more than $3.5 billion of real property for public agencies and has provided relocation assistance to more than 45,000 residential owner/occupants, tenants, businesses, and non-profits.**

C. Is your company experienced in Eminent Domain Appraisal?

X YES Describe: Our Appraisal Department entails 3 qualified appraisers. In the past 3 years, our appraisers have **completed more than 1100 appraisals and 750 appraisal reviews** for various project types.

D. Is your company experienced in Property Management?

X YES Describe: As a property manager, ORC routinely coordinates subconsultants to ensure that all notifications, permits, and administrative work are compliant with client's expectations and submitted on time. We work directly with clients to ensure that all property management deliverables are on time and in accordance with expectations. We work closely with clients to address any issues involving the acquisition area, affected residents, and properties. We are often responsible for overseeing the entire demolition process, including the creation of demolition records, disconnection of all utilities, the capping of all sewer lines, and the removal of concrete driveways. We are also involved in assuring the safety of the residents within the project area. Our presence in affected neighborhoods also helps to deter vandalism, as well as effectively establishes a trusting relationship with residents. Further, we routinely ensure compliance with EPA, OSHA, Ohio Department of Health, local, state, and federally mandated requirements, and ensure the removal of

E. Is your company experienced in Right of Way Project Management?

X YES Describe: As the oldest firm in the country specializing in land acquisition and relocation services under the Federal Uniform Act, ORC has successfully managed some of the largest and most complex linear land acquisition projects in the country:

King Coal Highway, Mtn. View to Gilbert (Mingo County) (WV) Turnkey acquisition services for 25+ parcels
Jumping Branch/Nimitz PSD (Summers County) (WV) Easement acquisition for 50+ properties for a waterline extension project.
Coalfields Expressway (Wyoming County),(WV) Turnkey acquisition services and relocation services for 50+ parcels
West Virginia Road Improvement Initiative, (WV*)* Turnkey acquisition services for 300 + parcels; ROW cleared for construction in 10 mos.
Telecommunications Project (WV, VA and OH) Acquisition services for telecommunication storage sites. ORC contacted over 200 property owners to acquire sites from approximately 15 property owners.
Reese Bridge (Greenbrier County, WV)*)* Turnkey acquisition and Utility Relocation services for 6 parcels; ROW cleared in 6 mos.
Dunloup Bridge (Greenbrier County, WV*)* Utility Relocation services for approximately 3 utility companies; ROW cleared in 3 mos.
Wellsburg Bridge Project *Wellsburg, WV)* Turnkey acquisition services for 4 parcels; ROW cleared in 6 mos.
Junior Bridge Project *(Junior WV)* Turnkey acquisition/relocation services for 4 parcels; ROW cleared in 6mos.
Diana Deck Project *(Webster County, WV)* Turnkey acquisition services for 4 parcels; ROW cleared in 5 mos.
Powells Creek Birch River Project *(Nicholas County, WV)* Turnkey acquisition and utility relocation services for 5 parcels; ROW cleared in 4 mos.
SH 130 *(Austin, TX)* Largest design-build project in nation; 91 miles of new highway; aggressively scheduled; ORC awarded contracts for two phases: Segments 1-4 - 425 acquisitions, 380 relocations; Segments 5&6 – 300 acquisition, 175 relocations
Grand Parkway *(Houston, TX)* $1 billion project; fourth major loop around Houston, TX; represents 182 miles of roadway, and it is the largest highway loop in the United States; ORC managed the acquisition and relocation of over 500 parcels - 400 relocations included both commercial and residential parcels; **ROW to be cleared in 22 mos.**
Project NEON *(Las Vegas, NV)* ORC provided relocation advisory services for the first phase of this on-going project to improve the I-15 corridor through Las Vegas, NV; inclusive of the relocations are two self-storage sites (750 units), an antique mall (43 separate businesses), and 14 additional business entities; **ROW cleared in 18 mos.**
US 158 Project *(Charlotte, NC)* Widening of 8 miles of US 158 to four lanes; 91 acquisitions, 23 relocations; **ROW cleared in 10 mos.**

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND KEY PERSONNEL THAT WOULD BE COMMITTED TO PROJECT
(Furnish Complete Data But Keep To Essentials)

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
Jones, Tracy – Divisional Director	As Principal In This Firm **8**	As Principal In Other Firms **4**	Other Than Principal **11**

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management)
N/A

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work

Ms. Tracy Jones brings 20 years of ROW experience, and she commands a thorough understanding of the right-of-way acquisition process. Previous experience with the ODOT NE Ohio Real Estate Regional Office, and the Regional Real Estate Department Manager at a large engineering firm prior to joining ORC has provided her with expertise in both the public and private sectors.

- Ms. Jones is serving on several on-going assignments, and her % availability is subject to change depending on timing, scope, location, and other WVDOT priorities.

CURRENT PROJECTS

HAM 75-0.22 (Brent Spence Bridge), *Cincinnati, OH*
This project entails the reconstruction of I-75 from the Ohio River/Brent Spence Bridge through the Western Hills Viaduct. There are approximately 100 acquisition parcels with 35 relocation structures. Currently the number of tenants have not been determined. ORC was hired to perform right-of-way project management, title review, appraisal, negotiations, relocations, and closings. We currently are in the appraisal and preliminary relocation process.

HAM 71-3.81 (formerly named Uptown), *Cincinnati, OH*
This project involves providing a full movement interchange at IR-71 & Martin Luther King Drive while maintaining existing connections. The project also entails providing Ramp metering on the northbound entrance ramp from McMillan, along with a northbound auxiliary lane with capacity improvements to the local network including intersections of Martin Luther King and Reading Road (US 42) and Martin Luther King and Gilbert Road (US 22). ORC was selected to perform project management, titles, appraisal, negotiations, and closings for 100+ parcels and relocation services for 12 structures with tenant occupants mixed residential and commercial.

HAM 75-2.30, *Cincinnati, OH*
This project entailed the reconstruction of I-75 in Hamilton County from just north of Western Hills Viaduct to just north of the I-74 Interchange. The project includes the reconstruction of ramps, structures, and pavements. This project included a total of 15 total take acquisitions with 4 bill of sale parcels. The relocation includes 30 residential tenant displacements along with 15 businesses, including landlords.

HAM 75-12.60, *Cincinnati, OH*
The client for this project was the Ohio Department of Transportation. This project entailed the reconstruction of I-75 in Hamilton County from the Lockland split to just north of Glendale-Milford interchange. The project includes the reconstruction of ramps, structures, and pavements of mainline I-75 and side roads. The right-of-way task for this project included 42 appraisals and 46 relocations. The parcels are all "total takes."

Kennedy Connector Road Project*, Cincinnati, OH*
ORC was contracted to provide relocation services for the City of Cincinnati and specifically to make the relocation files associated with the project compliant under the Uniform Act and ODOT Policy & Procedures. The City engaged ORC to perform an assessment of the parcel files and to re-engage the claimants to provide additional relocation benefits, per the Uniform Act. This project entails developing the Kennedy Connector, which connects Camerwell to Duck Creek. The project consists of 42 total takes, and ORC has been scoped to complete relocation for 53 parcels.

HAM 50-18.79, *Cincinnati, OH*
ORC has been contracted with the City of Cincinnati to provide relocation advisory services in support of this project, which involves removing the existing Waldvogel Viaduct and 4 ramps from Elberon and Warsaw Avenues, along with replacing structures for the 4 ramps structures for the Sixth Street Expressway. The project also requires the removal and replacement of roadways for required portions of River Road, Elberon Avenue, Warsaw Avenue, State Avenue, Evans Avenue, and Maryland Avenue. The ORC Team completed the initial relocation survey and directly facilitated 11 business relocations.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES **International Right-of-Way Association; American Society of Highway Engineers; Women in Transportation Society; National Association of Realtors; Ohio State Licensed Realtor - 0426177**

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
Gardner, Jayson PMP – Project Manager	As Principal In This Firm **5**	As Principal In Other Firms **0**	Other Than Principal **5**

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management)

B.A. - University of Akron, Akron, Ohio; **ODOT –** Project Management; Negotiations; Closings; Title Research; **KYTC –** Level 3 Acquisition; Level 1 Relocation; **TDOT –** Acquisition; Project

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work

Mr. Jayson Gardner was formerly ORC lead project manager in Cincinnati, and he is now the lead project manager in Columbus. He has achieved the Project Management Professional (PMP) designation through the Project Management Institute. He is currently pre-qualified by ODOT in Project Management, Titles, Negotiations and Closings, by KYTC as a Level 3 Acquisition Agent and Level 1 Relocation Agent, and by TnDOT in Acquisition and Project Management. He has the ability to comprehend and implement new knowledge and skills within the field. His training and experience thus far have focused on providing full turnkey services, including project management.

Representative Project Experience

DEL-CR14-1.23 (E. Powell Road), *Lewis Center, OH*

This project included the widening of 1.7 miles of the existing two-lane E. Powell Road to three-lanes, providing signalized intersections and improving the curvature of the roadway. Project also included drainage improvements, sidewalks and bike path. This project required acquisitions from 85 property owners. Jayson performed negotiation, closing, and project management services on this project.

SCI 823-0.00, *Portsmouth, OH*

This project is for the construction of 5.65 miles of four lane limited access highway (SR 823) from the US 52 interchange to south of the TR 234 interchange; interchanges at US 52 and SR 140; SR 823 bridges over SR 140 (Webster Street), CSXT, TR 248 (Slocum Avenue) and SR 335 & Little Scioto River; US 52 ramp A Bridge over CR 503 (Ohio River Road); US 52 ramp B bridge over US 52 & CR 503. There are approximately 57 warranty deed parcels with 9 relocation parcels consisting of businesses, residential properties and a few personal property moves. Jayson performed negotiation and closing services on this project.

HAM 75-0.22 (Brent Spence Bridge), *Cincinnati, OH*

The client for this project is LBJ. This project consists of preparation of acquisition of right of way for completion of the Brent Spence Bridge project along approximately three miles of urban interstate I-75 North of the Ohio River. ORC provided project management, appraisal, acquisition, relocation and closing. Jayson was involved as a negotiator and providing relocation assistance on this project.

ATH – Richland Avenue, *Athens OH*

The client for this project is American Structure Point. This project is for the reconstruction of Richland Avenue between Canterbury Drive and Dairy Lane in the City of Athens including dedicated bicycle lanes, curbing, sidewalks, driveways, water main replacement, drainage improvements, and access management. ORC provided project management, appraisal, titles, acquisition, and closings for 13 parcels. Jayson performed project management services over all phases of the appraisal and acquisition process including scoping meetings, monthly client updates, sub management, and title, negotiation, and closing services on this project.

MIA-CR25A-16.48 *Piqua, OH*

This City of Piqua project is for improvements to the N. Main Street corridor from Greene Street to Riverside Drive, including the replacement of the sidewalk, curb and drive approaches with new street lighting and street signs. ORC provided turnkey services for 5 parcels. Jayson performed project management services over all phases of the appraisal and acquisition process, including oversight of agents and appraisers.

Tipp City-MIA-CR25A (Phase 1), *Tipp City, OH*

The client for this project is the City of Tipp City. This project is for the reconstruction of County Road 25A. ORC provided project management, appraisal, title reports, acquisition, and closings for 32 parcels. Jayson has performed project management services over all phases of the appraisal and acquisition process.

HIG-TWP RD 144 (Fenwick Rd.), *Hillsboro, OH*

This project replaced the bridge on Fenwick Road over Plum Run Creek. ORC provided project management, appraisal, title reports, acquisition, and closings for 4 parcels. Jayson has performed project management services over all phases of the appraisal and acquisition process.

WAR-CR110-0.15 Kings Island Drive, *Mason, OH*

This project widened Kings Island Drive and added left turn lanes, median islands, interconnect signals, curb and gutter, storm sewers and a bike path. ORC provided project management, appraisal, titles, acquisition, and closings for 5 parcels. Jayson has performed project management services over all phases of the appraisal and acquisition process, including involvement in the

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES **Project Management Institute –** Project Management Professional

COMPLETE ADDITIONAL COPIES OF THIS PAGE FOR ADDITIONAL PERSONNEL

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
Miller, Christopher, M	As Principal In This Firm **1**	As Principal In Other Firms **14**	Other Than Principal **N/A**

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management)
M.S.I.L.R./West Virginia University/Human Resource Management/Morgantown, WV – WVDOH – Realty Manger Relocation/Property Management, Negotiations,

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work

Mr. Christopher Miller has been involved with acquisition and relocation services for the WVDOH for the past 7 years. As a former WVDOH employee, he has significant experience with WVDOH policies and procedures, and he has provided relocation services on current WVDOH projects managed by ORC. As a lead ORC Project Manager, Mr. Miller has managed 40+ right-of-way acquisition/relocation projects, including those provided as project experience in this application. He also specializes in Relocation, and she has ample experience as a Negotiator. Mr. Miller has reviewed consultant title, closing, negotiations, relocation files and performed relocation services for complex residential and businesses for the WVDOH.

Representative ORC Project Experience

X355-121-1.09 00 – WV-16 -Coalfields Expressway, *Mullens, WV*
This project is a major project to acquire a new portion of the Coalfields Expressway in and around Mullens, WV. ORC is providing project management, appraisal, titles, acquisition, and closings for 66 parcels. Chris has performed project management services over all phases of the appraisal and acquisition process, including involvement. Chris has also written 10 replacement housing payments and has successfully negotiated 20 parcels thus far.

Jumping Branch/Nimitz PSD, Hinton, WV
ORC provided right of way negotiator services to obtain 50+ easements for this project in the Hinton, WV area.

U330-52-39.70 05 – King Coal Highway – Mtn. View to Gilbert, Gilbert WV
ORC is providing acquisition and legal description services for 25+ parcels on this project.

Representative WVDOH Project Experience

New Cumberland WV2 Improvements, *New Cumberland, WV*
This was a realignment of a portion of Rt.2 in New Cumberland, WV. Chris was providing relocation advisory services as the Realty Manager for the WVDOH. This project required relocation and acquisition services. Chris wrote one RHP for this project and had taken relocation questionnaires for a six-unit apartment building.

ZWAY Beaver to South Eisenhower Project, Beaver WV
This was a major roadway project in Raliegh County, WV. The project was to place an additional turn lane to ease traffic. Chris was responsible for writing all the RHP's for this project and to work as lead on several complex non-residential relocations. As the Realty Manager reviewed and approved all relocation payments for the project.

ZWAY – Shady Spring to Beaver Project, Shady Spring, WV
This was a major roadway project in Raliegh County, WV. The project was to place an additional turn lane to ease traffic. As Realty Manager for Relocation and Property Management, Chris was tasked to review the contracted right of way consultant RHP's and any relocation payments that were presented.

Culloden Interchange Project, Culloden, WV
This was an interchange project on I-64 in Putnam County, WV. As Realty Manager, Christopher was tasked to meet with property owners and tenants to calculate rent subsidy payments for a 13 unit mobile home park. Christopher also reviewed and approved relocation payments as required for the project.

Jefferson Road Expansion, South Charleston, WV
This was a highly visible expansion project in Kanawha County, WV. Christopher was tasked to write all 45 replacement housing payments and 2 rent subsidy payments. As Realty Manager, Christopher was responsible for updating the relocation reports and reviewing and approving relocation payments.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES: KYTC – IRWA, West Virginia Notary

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
Marino, Jason, A. – Acquisition/Relocation Agent	As Principal In This Firm **0**	As Principal In Other Firms **0**	Other Than Principal **5**

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management
Bachelors in Science in Management-2015/ROW expertise- Relocation

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work

MR. JASON MARINO has been with ORC for a little over 3 years and is now in the role of Agent 1. He has over 5 years experience in ROW and also working with WVDOH projects among others.He has performed right-of-way functions for a variety of public agencies, including water/sewer districts, Ohio DOT and WVDOH and dozens of local public agencies (LPA's)

Representative Project Experience

ORC Projects: **Coalfields Expressway**, *Mullens, WV*
February 2023 – Present 85 total acquisition parcels and total relocation parcels. Jason has written 6 waiver payments and acquired 6 parcels and has 8 relocations parcels so far.

Jumping Branch/Nimitz PSD, Hinton, WV
ORC provided right of way negotiator services to obtain 50+ easements for this project in the Hinton, WV area.

U330-52-39.70 05 – King Coal Highway – Mtn. View to Gilbert, Gilbert WV
ORC is providing acquisition and legal description services for 25+ parcels on this project.

WVDOH Projects:

Culloden Interchange Project, *Culloden, WV*
June 2021 -May 2022
20 total acquisitions and 16 relocations
Jason presented 11 RHP payments and relocated the parcels
Jefferson Road Expansion, *South Charleston, WV*
September 2018 – January 2022
75 total acquisitions and 53 total relocations parcels
Jason presented 6 of the RHP payments and relocated the Parcels
Morgantown Sidewalk Project, *Morgantown, WV*
June 2019 – February 2022
45 total acquisitions and 5 relocations
Jason presented 1 TCE commercial payment and helped 1 business with having to relocate personal property on the TCE
Scary Creek Bridge Project, *Racine, WV*
September 2018- June 2019
4 Relocations
Jason presented 4 RHP payments and relocated 4 Parcels
Corridor H Project, *Parsons, WV*
October 2018- September 2021
5 relocations
Jason wrote 5 RHP payments

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES **: IRWA, West Virgnia Notary Public**

COMPLETE ADDITIONAL COPIES OF THIS PAGE FOR ADDITIONAL PERSO

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
Scott, Gary – Quality Control for DOH materials	As Principal In This Firm **43**	As Principal In Other Firms **0**	Other Than Principal **43**

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management)
Senior Engineering Technician, Fairmont State University, Fairmont, WV

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work

As an ORC employee since 1978, Mr. Gary Scott has been active in all phases of acquisition work, specializing in the preparation of right-of-way maps and plans, negotiations, relocations and property descriptions.

- For VDOT-sponsored projects in Amherst, Campbell, Chesterfield, Fairfax, Henrico, Henry, Lee and Pittsylvania County, VA, he prepared all legal descriptions, condemnation exhibits, and plan changes.
- In the Malden and South Charleston areas of West Virginia, he negotiated the acquisition of several hundred parcels for a public works projects, including both fee and easement types of acquisition.

Other assignments for ORC included several Tennessee and Virginia highway projects, projects for the Lambert-St. Louis International Airport, the Cleveland Hopkins International Airport, Denver Stapleton International Airport, Ft. Lauderdale-Hollywood International Airport, Toledo Express Airport, Palm Beach International Airport, Harrisburg International Airport, Times Beach Missouri and Niagara, NY where Mr. Scott participated in the Relocation Plan and the acquisition and relocation of parcels for the project.
Other assignments have included preparation of training materials for various courses offered by the firm, including courses given for the U.S. Department of Transportation, FHWA, and FAA.

- Mr. Scott retired from WVDOT in 2016, where he handled highway project coordination with all Railroad and Utility companies that operate in WV.

Coalfields Expressway, Mullens, WV

King Coal Highway, Mountain View – Gilbert, WV

West Virginia Road Initiative Project, Charleston, WV
March 2017-2019 – Contracted to Stahl & Sheaffer to upgrade the roads and bridges throughout 12 counties in West Virginia. Responsibilities include acquisition, data research, railroad coordination, title research, negotiations, closings and valuations for approximately 300 parcels.

Montgomery County, VA Route 628 Re-Alignment Project
November-December 2018 - Contracted by CLARKNEXSEN for preparation of the land Donation Documents and Exhibits for the for the project.

Powell Creek Bridge and Birch River Bridge Design Build Projects
July 2018-Present-Handled utility relocations for Design Build Contractor, SMH Construction Company.

Reese Bridge and Dunloup Creek Bridge Design Build Projects
October 2017-Present-Handled utility relocations for Design Build Contractor, SMH Construction Company.

VDOT City of Roanoke – 13th Street, *Roanoke, VA*
ORC was awarded a contract to perform turnkey acquisition services for 98 parcels, including the relocation of 32 occupants (17 businesses, 15 residents).

VDOT Roanoke County – 10th Street, *Roanoke, VA*
ORC was awarded a contract to perform turnkey acquisition services for 87 parcels, including the relocation of 11 occupants.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES: **International Right of Way Association**

COMPLETE ADDITIONAL COPIES OF THIS PAGE FOR ADDITIONAL PERSONNEL

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
Zera, Ben – Relocation Agent	As Principal In This Firm **15**	As Principal In Other Firms **0**	Other Than Principal **0**

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management)
B.S., Finance & Real Estate, Florida State University; ODOT prequalified – Project Management, Relocation, Relocation Review, Negotiations

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work

MR. BENJAMEN ZERA has been with ORC for 14 years and has been a Project Manager for the past 9 years. He has performed right-of-way functions for a variety of public agencies, including water/sewer districts, state DOT's, the Federal Aviation Administration (FAA), the Federal Transit Administration (FTA), and dozens of local public agencies (LPA's). Mr. Zera's experience includes the relocation of residential properties, farms and commercial buildings. He has overseen the acquisition of partial takes, including sewer, highway, temporary, scenic and avigation easements. He has completed over 500 acquisitions and 400 relocations during his tenure with ORC and has managed more than 80 projects.

Representative Project Experience

Roadway

- CUY - Opportunity Corridor (SR 10), Cleveland, OH
- CUY 90 - 15.24, Cleveland, OH
- SUM 76-5.62, Barberton, OH
- SUM 8-1.75, Akron, OH
- MAH CR 151-3.57, Boardman, OH
- CUY 82 - 4.83 (Royalton Road), City of North Royalton, OH
- STA 271 - 12.65, City of Macedonia, OH
- STA 153-0.00, City of Canton, OH

Sewer & Water

- NEORSD - Cascades Project, Cleveland, OH
- NEORSD - East 140th Street Consolidation, Cleveland, OH
- NEORSD - Westerly Low-Level Interceptor, Cleveland, OH
- NEORSD - Euclid Creek Tunnel, Cleveland, OH
- NEORSD - CSO Cascades Project, Cleveland, OH
- City of Akron - CSO - Ohio Canal Interceptor Tunnel Project
- AQUA - Massillon Road Water Main Extension, Green, OH
- City of Canton - Waterline Extension Project

Airports

- Yeager Airport, Charleston, WV
- Harrisburg International Airport, Harrisburg, PA
- Erie International Airport Project, Erie, PA
- Wadsworth Airport, Wadsworth, OH
- Kelley's Island Airport, Kelley's Island, OH
- Put - In - Bay Airport, South Bass Island, OH
- Ashtabula County Regional Airport, Jefferson, OH
- Cleveland Hopkins Int'l Airport, Cleveland, OH
- Frankfort Dow Memorial Airport, Frankfort, MI

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES: **International Right of Way Association; American Society of Highway Engineers (ASHE)**

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
Ode, Lauren – Acquistion/Relocation Agent	As Principal In This Firm **6**	As Principal In Other Firms **0**	Other Than Principal **0**

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management)
B.S., Business Administration, John Carroll University, Cleveland, OH; ODOT prequalification – Negotiations, Relocations, Titles, Closings

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work
MS. LAUREN K. FALVEY has been with ORC for nearly 5 years and currently serves as a Right of Way Agent. During her time with the company she has performed the right of way functions for many different public agencies including the Ohio Department of Transportation, Northeast Ohio Regional Sewer District, Federal Aviation Administration, National Park Service and Local Public Municipalities.

Representative Project Experience

Roadway

- City of Streetsboro, POR-Streetsboro Signals, Streetsboro, OH
- City of Strongsville, Walnut Drive Detention Basin, Strongsville, OH
- City of Canton, STA Waterline Extension, Canton, OH
- City of Wooster, Wooster Loop Bike Trail, Wooster, OH
- City of Wooster, Burbank Road, Wooster, OH
- City of Cleveland Heights, CUY-322-5.78, Cleveland Heights, OH
- City of Bucyrus, CRA-98-7.87, Bucyrus, OH
- Olmsted Township, CUY Fitch/Cook Sidewalks, Olmsted Twp., OH
- HNTB-The New New York Bridge Project, Nyack, NY
- CUY Opportunity Corridor (SR 10), Cleveland, OH
- SUM-8-1.75, Akron, OH
- HNTB Ohio Inc- CUY-82-4.83, North Royalton, OH
- Arcadis- SUM-CR 215-2.90 Vanderhoof Road, New Franklin, OH
- SUM-76-5.62, Barberton, OH
- LAK-20-9.47, Mentor, OH
- LUC-IR 75-1.10, Toledo, OH
- POR-Frost Road CR 197, Streetsboro, OH

Sewer & Water

- NEORSD - CSO Cascades Project, Cleveland, OH
- NEORSD - Pepper Creek Bank Stabilization, Pepper Pike, OH
- NEORSD - CUY Baldwin Creek Bank Stabilization, Cleveland, OH
- NEORSD - Superior Pump Station, Cleveland, OH
- NEORSD - CUY Doan Valley Relief & Consolidation, Cleveland, OH
- NEORSD - CUY London Road, Cleveland, OH
- NEORSD - East 140th Street Consolidation, East Cleveland, OH
- NEORSD - Pepper Luce Creek, Pepper Pike, OH
- NEORSD - CUY River Tributary Bank Stabilization, Independence, OH
- NEORSD - North Royalton Stormwater, North Royalton, OH

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES: **International Right of Way Association; National Highway Institute**

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
O'Neill, Sean – Acquisition Agent	As Principal In This Firm **4**	As Principal In Other Firms **0**	Other Than Principal **0**

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management)
B.S., Business Administration, John Carroll University, Cleveland, OH; ODOT prequalified – Negotiations; Titles; Closings

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work

Sean O'Neill has been with ORC for one nearly three years and is currently in the role of Agent I. During his time with the company, he has performed the right-of-way functions for many different public agencies, including West Virginia Department of Highways ("WVDOH"), the Ohio Department of Transportation ("ODOT"), Northeast Ohio Regional Sewer District ("NEORSD"), and many other Local Public Agencies. He has performed Title Research, Acquisition, Relocation, Property Management, and Closing. Prior to joining ORC, he attended John Carroll University, where he graduated with a Bachelor of Science in Business Administration, concentrated in Business Management.

Representative Project Experience

Roadway

- WV Roadway Initiative- Phase II *Charleston, WV*
- Opportunity Corridor*, Cleveland, OH*
- SUM 76-5.62 & 5.53*, Barberton, OH*
- SUM 8-1.75 *Akron, OH*
- MAH Mill Creek Bikeway Phase III, *Washingtonville, OH*
- CUY-82-4.83, *North Royalton, OH*
- MAH 151-3.57, *Youngstown, OH*
- SUM 91-15.67*, Hudson, OH*
- City of Strongsville- Traffic Signal, *Strongsville, OH*
- SUM 261-11.33 *Akron, OH*
- CLA-Belmont Avenue Phase 2
- POR- Streetsboro Signals
- FRA- State Route 315 – North Broadway
- CUY- Fitch Cook Sidewalks

Utility

- Columbia Gas of Ohio – Middleburgh Hts.

Redevelopment

- CUY Valley National Park, *Pensacola, OH*

Sewer & Water

- City of Canton – Waterline Extension Projects, *Canton, OH*
- NEORSD London Road Sewer Relief Project, *Cleveland, OH*
- WRRSP Eckert Ditch Project, *Ravenna, OH*

Airports

- Cuyahoga County Airport, *Richmond Heights, OH*

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES **Notary Public – West Virginia, Ohio**

NAME (Last, First, Middle Initial)	EXPERIENCE (Years)		
King, Natasha – Acquisition Agent	As Principal In This Firm **4**	As Principal In Other Firms **7**	Other Than Principal

EDUCATION Degree/Year/Specialization/Area Of Right of Way Expertise (ie: Project Manager - Negotiator - Relocation - Property Management)
BS – Marketing, NC A&T/Acquisition/Negotiations, Closings, Relocation, Title Research

PRESENT WORK ASSIGNMENT - Title And % Of Job Complete - Date Available For Additional Work

NATASHA KING began her career as a right-of-way agent with ORC in 2016. She has worked on a variety of projects and has taken many courses related to the right-of-way industry and real estate, providing a solid foundation for acquisition, relocation, and advisory services under the Uniform Act. She is currently prequalified in Negotiations, Closings, and Title Research with the Ohio Department of Transpor.tation, and she is cross trained in multiple tasks as this leads to efficiencies on projects and can be time savings as she will have overall knowledge of the parcels from title through closing. Natasha is also certified for relocation in Kentucky and is near obtaining prequalification for relocation in Ohio.

Representative Project Experience

- ADA 41-20.22 (ODOT – D9)
- ADA/BRO 136/62-18.96/26.50 (ODOT – D9)
- AUG CR25A-3.29 (Wapakoneta Engineering Department)
- AUG SRTS Wapak IFS2 (ODOT – D7)
- AUG/LOG 219/274 VAR (ODOT – D7)
- BRO 52-2.51 (ODOT – D9)
- BUT TR134-8.45 (City of Middletown)
- BUT SR177-0.64 (City of Hamilton)
- CLA CR315-1.28 (Clark County Engineer's Office)
- CLA Yellow Springs St (City of Springfield)
- CLE TR252-Clepper Lane Ext (CCTID)
- GRE 42-10.29 (City of Xenia)
- GRE Shakertown Road (City of Beavercreek)
- HAM 75-7.85 (ODOT – D8)
- HAM 75-11.09 (ODOT – D8)
- HAM 75-14.61 (ODOT – D8)
- HAM CR90-3.89 (Colerain Township)
- HAM Glendale Milford/Lake Forest Roundabout (City of Blue Ash)
- HAM Hauck Road (City of Sharonville)
- LOG 273-2.96 (ODOT – D7)
- MER 29-7.80 (ODOT – D7)
- MER CR10-7.26 (Mercer County Engineer's Office)
- MIA High Street (Village of Covington)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND LICENSES

14. CURRENT PROJECTS ON WHICH YOU ARE DESIGNATED AS THE PRIMARY RIGHT OF WAY CONSULTANT				
PROJECT NAME AND TYPE	LOCATION	AGENCY AND CONTACT PERSON	PROJECT RESPONSIBILITY AND NUMBER OF PARCELS	PERCENT COMPLETED AS OF THIS DATE
WVDOH WV 16-Mullens (Coalfields Expressway)	**Mullens, WV**	**TRC Engineers, INC. David Clevinger; 304-546-2599**	**Acquisition for 68 parcels and relocation for 14 parcels**	**90%**
WVDOH – King Coal Highway-Mtn. View to Gilbert	**Gilbert, WV**	**WVDOH – Sarah Runyon; 304-558-2822**	**Acquisition, legal descriptions for 25+ parcels**	**10%**
Jumping Branch/Nimitz PSD Madams Creek/Broomstraw Rd. Waterline Extension	**Hinton, WV**	**Region I Planning & Development Council, Eric Combs (304)431-7225**	**Acquiring 50+ easements**	**100%**
West Virginia Road Improvement Imitative	**12 Counties throughout WV**	**Stahl Shaeffer Engineering Scott Popovich; 724-960-1111**	**Acquisition, title, appraisal waivers, closing 300+ pcls**	**100%**
Long-Haul Telecommunication	**WV, Ohio and Virginia**	**BHC Rhodes Chris Schepmann; 913-663-1900**	**Identified 200+ property owners; acquisition, title, closing for 15 pcls.**	**100%**
Powells Creek & Birch River	**Nicholas County, WV**	**L. A. Gates Engineering Jay Cantley; 304-1640**	**Acquisition, title, appraisal waivers, closing and utility coordination on 5 parcels**	**100%**
Diana Deck Girder	**Webster County, WV**	**The Thrasher Group Jason Boyd; 304-343-7601**	**Acquisition, title, appraisal waivers, closing and utility coordination on 4 parcels**	**100%**
Junior Bridge	**Junior, WV**	**E.L. Robinson Engineering Scott LeRose; 304-776-7473**	**Acquisition, relocation, title, appraisal waivers, closings 4 pcls**	**100%**
Wellsburg Bridge	**Wellsburg, WV**	**RS&H Engineering Ben Lehr; 804-422-5075**	**Acquisition, title, appraisal waivers and closing on 4 pcls**	**100%**
Reese Bridge	**Greenbrier County, WV**	**L. A. Gates Engineering Jay Cantley; 304-1640**	**Acquisition, title, appraisal waivers and closing on 4 pcls**	**100%**
Dunloup Bridge	**Greenbrier County, WV**	**L. A. Gates Engineering Jay Cantley; 304-1640**	**Utility coordination for 3 utility companies**	**100%**
South Hamilton Road Grade Separation	**Cincinnati, OH**	**Butler County TID David Spinney; 513-785-3450**	**Prime ROW consultant; 100 app reviews, 50 relo reviews**	**30%**
HIG Twp Rd 144 (Fenwick)	**Cincinnati, OH**	**Highland County Engineer Dean Otworth; 937-763-3596**	**Prime ROW consultant; 4 pcls; turnkey services**	**50%**
HAM 75-0.22/Brent Spence Bridge Project	**Hamilton County, OH**	**ODOT District 8 Gary Link; 614-466-7170**	**Prime ROW consultant; 70 acquisition pcls and 10 relos**	**25%**
HAM 75-7.72	**Middletown, OH**	**ODOT District 8**		

TOTAL NUMBER OF PROJECTS: **50+**	TOTAL NUMBER OF PARCELS & RELOCATION CASES: **ORC is presently engaged in hundreds of projects nationwide. This is a sampling of regional projects being performed by likely project staff members.**

15. CURRENT PROJECTS ON WHICH YOU ARE ASSOCIATED WITH OTHERS AS A RIGHT OF WAY SUB-CONSULTANT

PROJECT NAME AND TYPE	LOCATION	AGENCY AND CONTACT PERSON	PROJECT RESPONSIBILITY AND NUMBER OF PARCELS	PERCENT COMPLETED AS OF THIS DATE
West Virginia Road Improvement Imitative	**12 Counties throughout WV**	**Stahl Sheaffer Engineering Scott Poppovich; 724-960-1111**	**Acquisition, title, appraisal waivers and closing for 300+ pcls**	**99%**
Long-Haul Telecommunication	**WV, Ohio and Virginia**	**BHC Rhodes Chris Schepmann; 913-663-1900**	**Identified more than 200 property owners and acquire, provide title/closing for 15 pcls.**	**90%**
Powells Creek & Birch River	**Nicholas County, WV**	**L. A. Gates Engineering Jay Cantley; 304-1640**	**Acquisition, title, appraisal waivers, closing and utility coordination on 5 parcels**	**95%**
Diana Deck Girder	**Webster County, WV**	**The Thrasher Group Jason Boyd; 304-343-7601**	**Acquisition, title, appraisal waivers, closing and utility coordination on 4 parcels**	**100%**
Junior Bridge	**Junior, WV**	**E.L. Robinson Engineering Scott LeRose; 304-776-7473**	**Acquisition, relocation, title, appraisal waivers, closings 4 pcls**	**100%**
Wellsburg Bridge	**Wellsburg, WV**	**RS&H Engineering Ben Lehr; 804-422-5075**	**Acquisition, title, appraisal waivers and closing on 4 pcls**	**100%**
Reese Bridge	**Greenbrier County, WV**	**L. A. Gates Engineering Jay Cantley; 304-1640**	**Acquisition, title, appraisal waivers and closing on 4 pcls** **Utility coordination for 3 utility companies**	**100%** **100%**
Dunloup Bridge	**Greenbrier County, WV**	**L. A. Gates Engineering Jay Cantley; 304-1640**	**Prime ROW consultant; 12 pcls; appraisals, titles, negotiations, closings**	**50%**
BUT CR 177-0.64	**Butler County, Ohio**	**Northwest Consultants Thomas R. Lyons, P.E. 937-291-9092**	**Prime ROW consultant; 14 pcls; titles, appraisals, negotiations, relocation, closings**	**40%**
Touby Run Flood Mitigation	**Mansfield, OH**	**EMH&T Miles Hebert 614-775-4205**	**Prime ROW consultant; 10 parcels; titles, appraisals, negotiations, closings**	**10%**
KNO-13-11.71	**Mt. Vernon, OH**	**GPD Group Lance Oldham**		

TOTAL NUMBER OF PROJECTS: **50+**		TOTAL NUMBER OF PARCELS & RELOCATION CASES: **ORC is presently engaged in hundreds of projects nationwide. This is a sampling of representative roadway projects being performed by our team as a subconsultant nationwide.**

COMPLETE ADDITIONAL COPIES OF THIS PAGE IF NEEDED

16. WORK COMPLETED WITHIN LAST 10 YEARS ON WHICH YOU WERE A RIGHT OF WAY CONSULTANT OR SUB-CONSULTANT

NAME AND TYPE OF PROJECT	LOCATION	AGENCY AND CONTACT PERSON	CONSULTANT OR SUB-CONSULTANT	NUMBER OF PARCELS	YEAR	CONSTRUCTED (Yes or No)
Route 707, Phase I	**Myrtle Beach, SC**	**South Carolina DOT Bobby Martin 843-317-4053**	**Consultant**	**200**	**2011**	**Yes**
13th Street	**Roanoke, VA**	**Virginia DOT Vicki Campbell 804-786-2910**	**Consultant**	**99**	**2012**	**Yes**
Route 726	**Danville, VA**	**Virginia DOT Vicki Campbell 804-786-2910**	**Consultant**	**32**	**2013**	**Yes**
Route 460	**Blacksburg, VA**	**Virginia DOT Vicki Campbell 804-786-2910**	**Consultant**	**18**	**2013**	**Yes**
Route 1, North & South	**Culpeper, VA**	**Prince William County Robert Burdsal (703) 792-8135**	**Consultant**	**72**	**2010**	**Yes**
Highway 16/Armstrong Ave. – Stone Bridge Road	**Fayetteville, AR**	**AR Hwy & Transportation Department (AHTD) Scott Wroten 501-569-2585**	**Consultant**	**52**	**2013**	**Yes**
Brockington Road	**Little Rock, AR**	**Metroplan (Little Rock MPO) Richard Magee 501-372-3300**	**Consultant**	**13**	**2011**	**Yes**

COMPLETE ADDITIONAL COPIES OF THIS PAGE IF NEEDED

17. COMPLETED WORK WITHIN LAST 10 YEARS ON WHICH YOU WERE ASSOCIATED WITH OTHER FIRMS AS A RIGHT OF WAY SUB-CONSULTANT
(Indicate Phase Of Work For Which Your Firm Was Responsible)

NAME AND TYPE OF PROJECT	LOCATION	AGENCY AND CONTACT PERSON	PROJECT RESPONSIBILITY AND NUMBER OF PARCELS	YEAR	CONSTRUCTED (Yes or No)
Corridor H: Kerens-US 219 Connector	**Randolph County, WV**	**EL Robinson Engineering Scott LeRose 304-776-7473**	**Turnkey acquisition services for 5 parcels.**	**September 2018**	**No**
US 158 Widening Project	**Murfreesboro, NC**	**HNTB Corp (Designer) Enrico Rogue, PE 919-546-8997**	**Turnkey acquisition services for 91 parcels; relocation advisory services for 23 properties.**	**August 2009**	**Yes**
SH 130, Segments 1-6	**Austin, TX**	**Lone Star Infrastructure SH 130 Concession Company Mr. Timothy Weight, P.E. PH: (512) 225-1314**	**Largest design-build project in nation; 91 miles of new highway; aggressively scheduled; ORC awarded contracts for two phases: 1) Segments 1-4 - 425 acquisitions, 380 relocations 2) Segments 5&6 – 300 acquisition, 175 relocations**	**December 2013**	**Yes**
Tarrant County Funnel (DFW Connector)	**Dallas, TX**	**NorthGate Constructors (joint venture between) Kiewit Texas Construction & Zachry Construction) Garrett Foote (972) 536-8620**	**ORC negotiated the acquisition of 56 parcels of commercial land in the cities of Grapevine and Southland, TX, and the properties range in commercial utility from restaurants and retail to convenience stores and banks. Additionally, the initial phase of this long-term design-build project required the relocation of 25 businesses and 5 outdoor advertising structures.**	**July 2013**	**Yes**
I-69 Design-Build Project	**Indianapolis, IN**	**PB Americas Todd Clift 317-232-5060**	**ORC worked as sub to design consultant; 55 miles of new highway; acquisition of 623 parcels; relocation of 100+ parcels; 95% settlement rate; ROW cleared in 18 months.**		

COMPLETE ADDITIONAL COPIES OF THIS PAGE IF NEEDED

18. PROVIDE ANY ADDITIONAL INFORMATION ABOUT YOUR FIRM OR PERSONNEL PERTINENT TO THIS QUESTIONNAIRE.

Founded by Mr. Owen Richard Colan in 1969, **O. R. Colan Associates, LLC (ORC)** specializes in land acquisition, relocation, and program management for public works projects, and we remain a family-owned business. We are recognized nationally in the field of right-of-way negotiations and relocation assistance for projects implemented under the provisions of the Uniform Relocation and Real Property Acquisition Policies Act of 1970 (Public Law 91-646, as amended); and Title 49 Code of Federal Regulations Part 24. Our clients are primarily public agencies with eminent domain authority. These include hundreds of cities and counties, 30 state departments of transportation, more than 100 airport authorities, FEMA, the EPA, the National Park Service, the U. S. Army Corps of Engineers, and numerous state, county, municipal, and local public agencies.

- We maintain a national staff of over 400 full-time right-of-way professionals.
- We have grown our business from just a handful of employees to 35 offices in 23 states, including a longtime office in South Charleston, WV.
- We have provided right-of-way consulting services that support broadly-scoped on-call contracts to 30 state departments of transportation, including recent partnerships with the Arkansas Department of Transportation (ARDOT), Texas Department of Transportation (TXDOT), the Maryland State Highway Administration (MDSHA), the Delaware Department of Transportation (DelDOT), the Virginia Department of Transportation (VDOT), the North Carolina Department of Transportation (NCDOT), and the Ohio Department of Transportation (ODOT).

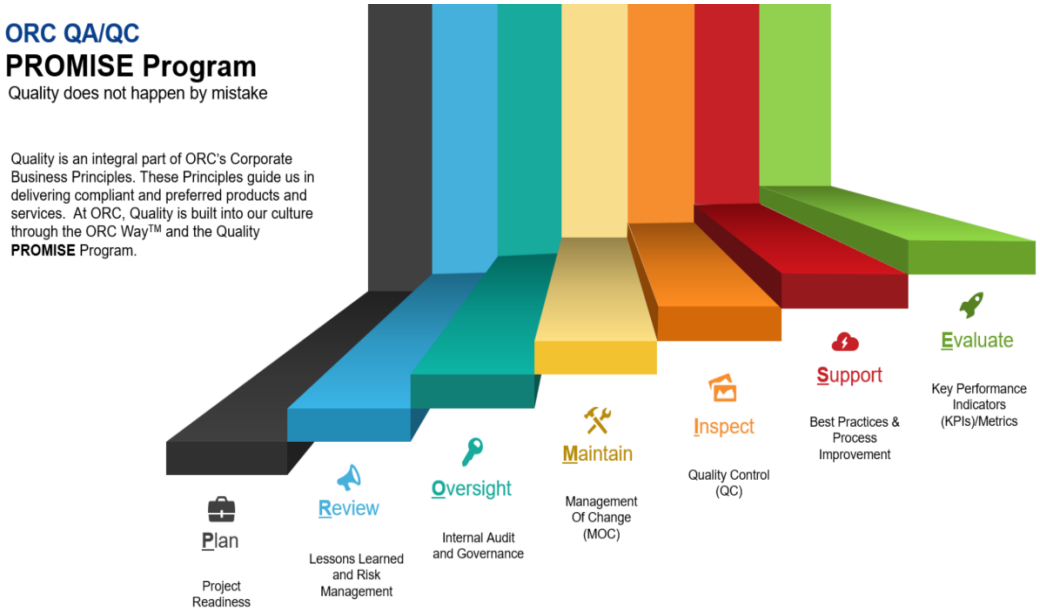
ORC's National Experience

We are the nation's leading firm specializing in land acquisition, relocation assistance, and program management services in compliance with the Uniform Relocation Act. Throughout our history, we have enjoyed many industry accomplishments (*right*).

ORC offers complete program management for hundreds of local public agencies nationwide. Not only have we provided practical services for public works projects of all scopes and complexities throughout the nation, our professionals also have been instrumental in understanding and applying the Uniform Act during its evolution, particularly in teaching its provisions both to the public and to private real estate professionals.

- Our proposed Project Team offers long-time right-of-way acquisition professionals, several of whom have been recognized by the International Right of Way Association for their high level of industry expertise, and all of whom bring comprehensive knowledge of the Uniform Act and West Virginia DOT policies and procedures.
- **Federal Highway Administration – Local Public Agency (LPA Course) –** The Federal Highway Administration (FHWA) recently contracted with ORC to convert the existing "Workshop for Real Estate Acquisition Guide to Local Public Agencies" into a two-day NHI course, offered to LPAs to train them in the proper procedures for acquiring real property for federally assisted projects.
- **Federal Highway Administration – Development and presentation of Training Courses on Basic Relocation, Advanced Relocation, Business Relocation, Appraisal, and Appraisal Review –** For more than fifteen years, the National Highway Institute (NHI) has selected ORC to develop and present their full array of training courses on relocation assistance and payments. NHI, the training division of the Federal Highway Administration, historically has relied on ORC in this capacity due to our thorough knowledge of all aspects of relocation advisory services, as well as our ability to effectively deliver the technical information in the classroom setting. Our training classes consistently receive accolades from clients and participants, with two of ORC's instructors recently named "Instructors of Excellence" for their NHI educational program involvement.

In addition to land acquisition services, ORC also provides congressional testimony, often called to provide expert testimony for litigation. We have been awarded more contracts to develop and revise right-of-way manuals for state Departments of Transportation than any other firm and consistently have been awarded FHWA contracts to write reports and conduct right-of-way industry-related studies.



Property Management Services

As an additional service, ORC can assist the DOT with property management duties, including utility disconnection, asbestos testing, asbestos abatement, structure board up, demolition and grass cutting. Though this service is not part of the formal scope for this project, ORC recognizes that this has been a concern for the DOT on past projects, and the ORC team has the capacity and experience to perform it.

ORC QA/QC Program

We have instituted the most advanced **QA/QC program** in the industry. Like the technological resources we offer our clients, we have invested significantly in this program, and support it with a catalogue of high-level technologies, specially designed systems, and a dedicated and professional staff. However, its value to our clients is defined simply: **PROMISE**.

The essential elements of ORC's Quality Policy include:

1. Complying with relevant laws and regulations as well as internal requirements;
2. Fostering a quality mind-set to develop and offer trusted, client-preferred, defect-free products and services;
3. Continuously challenging ourselves to improve the quality management system and in turn guarantee our focus on quality;
4. Demonstrating continuous improvement through sharing lessons learned to prevent quality incidents and eliminate defects;
5. Ensuring that our process identifies, assesses, quantifies, and mitigates our operational risk.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT QUALIFICATION QUESTIONNAIRE **Attachment "A"**

PROJECT NAME	DATE (DAY, MONTH, YEAR)	FEIN
AML-EOI Pre-Qualifications for Consultants CEOI 0313 DEP2600000001	20, August, 2025	92-1287362
1. FIRM NAME Aerial Prospex LLC	2. HOME OFFICE BUSINESS ADDRESS 210 Andover Lane, Lititz, PA 17543	3. FORMER FIRM NAME .

4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OWNERSHIP	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise)
(717)-618-2166	2019	Individual	YES NO

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS

9. PERSONNEL BY DISCIPLINE

_ADMINISTRATIVE	__ECOLOGISTS	__LANDSCAPE ARCHITECTS	__ STRUCTURAL ENGINEERS
__ARCHITECTS	__ECONOMISTS	__MECHANICAL ENGINEERS	__ **SURVEYORS**
__**BIOLOGIST**	__ELECTRICAL ENGINEERS	__ **MINING ENGINEERS**	__ TRAFFIC ENGINEERS
_**CADD OPERATORS**	__ENVIRONMENTALISTS	_1_PHOTOGRAMMETRISTS	__ OTHER
__CHEMICAL ENGINEERS	__ESTIMATORS	__PLANNERS: URBAN/REGIONAL	
_**CIVIL ENGINEERS**	__**GEOLOGISTS**	__SANITARY ENGINEERS	
__CONSTRUCTION INSPECTORS	__HISTORIANS	__SOILS ENGINEERS	
__DESIGNERS	__HYDROLOGISTS	__ SPECIFICATION WRITERS	__ TOTAL PERSONNELL
__ DRAFTSMEN			

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: **0**

***RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.**

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? **N/A**

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach “AML Consultant Qualification Questionnaire”.

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE ______Yes ______No

12. A. Is your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

YES Description and Number of Projects

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects:

NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES **Description and Number of Projects**

Completed over 150 commercial drone flight hours and over 2000 acres of LiDAR mapping

NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects:

NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects

NO

G. Is your firm experienced in Construction Oversight?

YES Description and Number of Projects

NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Efendic, Nino, President		8	

Brief Explanation of Responsibilities

President and founder of Aerial Prospex, LLC, a successful drone services company specializing in serving the construction and mining industries. Enabling access to cutting-edge drone technology and expanding service offerings. Oversee the completion of numerous high-profile projects, delivering exceptional results and exceeding client expectations. Completed 150 commercial drone flight hours and over 2000 acres of LiDAR mapping

Burcell Technologies, Berkeley County, Martinsburg, WV - Responsible for the development of aerial mapping for the 40 ac. +/- waste disposal facility.

Kellerton Progress Tracking, Subdivision land development, Frederick, MD – Responsible for conducting daily photogrammetry mapping missions and calculate quantities of bulk earth moving operation.

CVI via UAS on transmission lines, inspection contract, New York state - Consulting, training, and flying in an effort to inspect 10,000 structures per year.

Greenfield North Progress Tracking, Lancaster, PA - Drone dock services for daily flights capturing aerial photography and photogrammetry mapping.

Stonebridge Progress Tracking, Subdivision land development, Frederick, MD - Conduct daily photogrammetry mapping missions and calculate quantities of bulk earth moving operation.

Mussers Gap to Valleylands, State Collge, PA - - Responsible for the development of aerial mapping for 800 ac.. +/-.

SR44 Section 103, Lycoming County, PA - Responsible for the development of aerial mapping for 4.4 miles of roadway reconstruction along SR 44.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, 2022, Mechanical Engineering, The Pennsylvania State University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Assoc. of Builders and Contractors Association	FAA Part 107 UAS Pilot Level 1 Thermographer

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Autodesk Suite
TopoDOT
Virtual Surveyor
Agisoft Metashape Pro

DJI Matrice 300 RTK w/ L2 Lidar, 45MP P1 camera, and H20T infrared inspection camera

DJI Mavic 3 Enterprise w/ 20MP sensor

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
(				

TOTAL NUMBER OF PROJECTS:	TOTAL ESTIMATED CONSTRUCTION COSTS:

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Kellerton Progress Tracking, Subdivision land development, Frederick, MD	Conduct daily photogrammetry mapping missions and calculate quantities of bulk earth moving operation	Keystone Custom Homes; 227 Granite Run Dr #100, Lancaster, PA 17601	December 2025		$60,000
CVI via UAS on transmission lines, inspection contract, New York state	Consulting, training, and flying in an effort to inspect 10,000 structures per year	Avangrid; 180 Marsh Hill Road Orange, CT 06477	December 2028	$374,000	$374,000
Greenfield North Progress Tracking, Lancaster, PA	Drone dock services for daily flights capturing aerial photography and photogrammetry mapping	1853 William Penn Way, Lancaster, PA 17601	December 2025		$25,000
Stonebridge Progress Tracking, Subdivision land development, Frederick, MD	Conduct daily photogrammetry mapping missions and calculate quantities of bulk earth moving operation	Keystone Custom Homes; 227 Granite Run Dr #100, Lancaster, PA 17601	December 2025		$90,000

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY

20. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.
Aerial Prospex, among many other services and projects, conducts mapping missions of quarries and reclamation sites on a monthly basis for the last 3 years. This work tracks quantities, cross-sections, and reclamation activities.

21. The foregoing is a statement of facts.

Signature: Nino Efendic Title: President Date: August 20, 2025

Printed Name: Nino Efendic