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First Name:	Walt			Total of All Attachn	nents: 3					
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Phone:	304-381-4281									
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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:	1564534	1564534				
Solicitation Description:	PROFESSIONAL SURVEYING SERVICES - SFLR 2					
Proc Type:	Central Purchase Order					
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2024-12-19 13:30		SR 0305 ESR12122400000003902	1			

VENDOR					
VC0000066437 STAHL SHEAFFER ENGINEERING LLC					
Solicitation Number:	CRFQ 0305 FOR250000002				
Total Bid:	166000	Response Date:	2024-12-16	Response Time:	11:04:43
Comments:					

FOR INFORMATION CONTACT THE BUYER Brandon L Barr 304-558-2652 brandon.l.barr@wv.gov

Vendor Signatur

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	PROFESSIONAL SUR SFLR 2	VEYING SERVICES -				166000.00
Comm	Code	Manufacturer		Specificati	on	Model #
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Commodity Line Comments:

Extended Description:

PROFESSIONAL SURVEYING SERVICES - SFLR 2

request for quotation: **Professional Surveying Services – SFLR 2**

December 17, 2024



SUBMITTED TO:



SUBMITTED BY: STAHLSHEAFFER ENGINEERING

250 Lakewood Center, Morgantown, WV 26508

stahlsheaffer.com

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Stahl Sheaffer Engineering, Inc. 250 Lakewood Center Morgantown, WV 26508 304.381.4281 www.stahlsheaffer.com

December 17, 2024

Mr. Brandon Barr Department of Administration - Purchasing Division 2019 Washington Street, East Charleston, WV 25305

Re: Professional Surveying Services – SFLR 2 CRFQ 0305 FOR250000002

Dear Mr. Barr:

Stahl Sheaffer Engineering, Inc. (Stahl Sheaffer) is pleased to submit this Quotation for Professional Surveying Services for the West Virginia Division of Forestry. We understand The West Virginia Purchasing Division is soliciting bids on behalf of the WV Division of Forestry, Forest Legacy Program (WVDOF FLP), to establish a contract for surveys, certified survey plats, and legal descriptions for a conservation easement for the properties described in Deed Book (DB) 127, Page (P) 21, and for Conservation Easement Designated Improvement Areas recorded at the Hardy County, WV Courthouse. The surveys, plats, and legal descriptions are needed because WVDOF FLP is purchasing a conservation easement from the landowner. WVDOF FLP is responsible for contracting and payment for the surveys, plats and legal descriptions. WVDOF FLP refers to this conservation easement as SFLR 2.

Stahl Sheaffer's highly experienced and registered professionals are capable and prepared to provide the services as outlined in this Request for Quotation. 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 304.381.4281 or via email at rmilne@stahlsheaffer.com should you have any questions or require additional information.

Sincerely,

FRMK

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

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Firm Overview

Stahl Sheaffer Engineering, Inc. (Stahl Sheaffer) is a multi-discipline civil engineering firm that has been providing services since 2006. Stahl Sheaffer specializes in survey, transportation and bridge engineering, land development, building design, and construction services. Our licensed engineers, surveyors, construction managers, and inspectors have worked extensively with both public and private sector clients. Additionally, our firm operates an AASHTO accredited soil and materials laboratory that specializes in testing subgrade soils and pavement materials.



Our size and reputation have grown based on the work of dedicated teams with exemplary skills and the use of advanced technology to meet our clients' needs. We do this with a high degree of quality and professionalism, and we strive to continually build on our reputation for being adaptable, innovative, and cost effective.

Stahl Sheaffer has more than 120 employees, operating from 9 locations from which we can assign resources to meet timelines and design requirements. Our professionals are licensed or certified as surveyors, civil engineers, bridge safety inspectors, tunnel inspectors, façade inspectors, geologists, environmental scientists, GIS technicians, and construction inspectors.



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

Services for the Professional Surveying project will be provided from our local

West Virginia office in Morgantown, as well as supplemental offices that are close to the project site.



Stahl Sheaffer has 9 Locations, Licensed in 23 States

Survey Services & Resources

Survey & Reality Capture



STAHL SHEAFFER

Engineering

conventional GPS, Mobile LiDAR, remote sensing, surveying for hydraulic and hydrology analysis, subsurface utility identification and location, aerial photogrammetry, and custom GIS applications. Stahl Sheaffer survey teams are experienced in performing field surveying for roadway and site development projects. Comprehensive survey and reality capture services include:

- Boundary and topographic surveys
- 360° scanning / 3D terrestrial scanning
- Utility mapping and coordination
- ALTA/ACSM surveys
- Flood elevation surveys
- Right of way documentation
- Base plan preparation
- Construction stakeout

Technology used to augment these services includes:

- Mobile Survey-grade LiDAR Scanning (Leica Pegasus:Two) Our mobile system produces survey-grade geo-referenced 3-D point cloud data useful for road infrastructure analysis, overhead utility location, bridge and overhead structure clearances, and asset inventory mapping. The resolution and detail of the system allows us to collect comprehensive data at higher (safer) speeds, allowing us to perform long range/high end mapping projects such as interstate corridor mapping and state highway survey contracts.
- Mobile Imaging Scanning (Trimble MX7) VISION technology allows for the collection of georeferenced high-resolution panoramic photos for road infrastructure analysis, change detection, asset inventory, and well site monitoring.
- Ground-Based LiDAR (FARO Focus 3D HDR System) Survey-grade groundbased laser scanning used to collect high resolution LiDAR data and panoramic imagery to extract topography, traditional survey data, and 3D modeling information. This data can be used for stockpile volumetrics, plant process modeling, Building Information Modeling [BIM], underground tunnel and quarry mapping, road surface modeling, overhead clearance modeling, and bridge inspection and modeling.
- Aerial Inspection (Matrice 200 Series Mid-Sized Drone) Our FAA Part 107 certified sUAS pilot, combined hardware technologies, and expertise allow us to collect data information over large distances and typically inaccessible locations. We can support structural engineering projects with the ability to perform aerial surveys for bridges or buildings in tight locations. The final product is video or high-res photos of the areas of concern, and since the work is done entirely from a secure location on the ground or within the building, we can compile that data while significantly reducing or eliminating the risks associated with a high-reach, boson swing, or swing-stage access.

Stahl Sheaffer can perform feature extraction on LiDAR and survey data to create AutoCAD and MicroStation base mapping and planimetric files, allowing engineers to make well-informed design decisions to tailor modification and construction plans to fit the situation at hand. Stahl







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RE

Sheaffer can also create "intelligent" 3D models of the survey data. Project data can be imported directly into AutoDesk, Bentley, and ESRI packages as an industry standard .LAS format for clients to use directly as if on site to pull measurements, locations, and clearance information, saving time and money.

TECHNOLOGY

Better understand what works best for your next project









	PEGASUS:	TRIMBLE MX2	TRIMBLE MX7	FOCUS
	TWO			3D HDR
360 Imagery	X	X	X	X
Condition Inspection	X	X	X	X
Asset Inventory	X	X	X	X
Overhead Utility Clearance	X	X	all and the second second	X
Rough Design	X	X	Hill Course	X
Mapping Grade Pointcloud	X	X	2111131	X
Rapid GIS Extraction	X	X	X	S1682823080
Mapping-Grade Feature Extraction	X	X	Heriek Sal	X
Engineering-Grade Mapping	X		法法定的行为	X
Survey-Grade Mapping	X			X
Crack Index Calculation	X		法になって	政治的知识
Rut Depth Calculation	X		は思えたとれて	供应的历史识别
City Asset Inventory	X	X	X	新聞一部一部
Curb and Gutter	X		たれたおいいない	X
Stormwater Drainage Location	X	業の開発する	見たいなどの	X
360 Videos	X	X	X	
Building Information Modeling	常常の生物で	は代本の目的である。	法理学会に対象	X
Interior Structure Scans	ののは、はののののでのである。	新聞きて、	語のなどの	X
ADA Compliance Checks				X
MEP Routing			The second second	X
Historic Site Documentation	A REAL PROPERTY OF			X
Oil & Gas Facility As-builts	X	State States	The second	X

Past Performance

WVDOT/DOH Green Bag Road Improvements, Monongalia, WV





This West Virginia Department of Highway's (WVDOH) Preliminary Investigation and Engineering (PIE) and Final Design project for Greenbag Road (CR 857) is an approximately 3.5-mile-long minor arterial roadway that provides an east-west connection, linking Don Knotts Boulevard (SR 119) and Earl L Core Road (WV 7) in the City of Morgantown, Monongalia County, West Virginia. The Greenbag Road corridor has long been recognized as a challenging roadway to navigate due to existing geometric deficiencies, significant intersection delay during peak hours, and increased volume of truck traffic and development within the corridor.

Stahl Sheaffer was retained by the WVDOH to complete a traffic study, NEPA clearance activities, right-of-way plan development, and final design for the widening and installation of two new roundabouts and pedestrian/bicycle accommodations along 1.5 miles of

Greenbag Road. The project involved an extensive alternatives analysis, roadway design, roundabout design, retaining wall design, culvert widening, traffic control, drainage design, 3D LiDAR scanning, right-of-way plan development, preparation of traffic study for intersection capacity and corridor analysis, and subconsultant oversight for the development of an EA, including extensive public involvement efforts. Stahl Sheaffer has completed final design activities and submitted the PS&E for the project to the WVDOH.

WV State capitol Dome 360° Scan, state of west virginia, kanawha county, WV

Stahl Sheaffer collected nearly two billion data points of the inside of the West Virginia State Capital Dome to provide historically accurate rehabilitation data for construction of a moisture

intrusion repair project. High-resolution 3D point cloud and 360-degree imagery was captured and processed. The scanning covered the entire circumference of the dome area which is approximately 230 feet. Scanning was performed utilizing a FARO Focus 330X HDR phase-based laser scanner on a high-resolution setting. Data collection consisted of high-resolution colorized point cloud data that will be used to document the precise elevations and extents of each unique plaster banding element with reference points from locations that will remain in place such that all components can be reinstalled in their existing location. The reference points consist of nondestructive mark, tags, stickers, and tape to ensure



the points would last for the duration of the project. Location and radius of the existing walls and reference points were established so the walls can be replicated in their existing locations.

West Virginia Roadway Improvement Initiative, Various Counties, WV

Stahl Sheaffer was the lead design engineering firm on a project that included various public roadway improvement projects totaling 183 miles located in several WVDOH Districts (District

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 with extensive support from the GIS and LiDAR departments. Stahl Sheaffer assisted in the construction of the roadway improvements in less than 12 months from Notice to Proceed.





2345 Murray Avenue Site Survey and Scan, Marshall Dennehey, PC, Pittsburgh, PA (2023)

Stahl Sheaffer performed a boundary and topographical survey of a 0.60-acre tract, as well as a terrestrial 3D scan of the exterior of the office building and all public spaces within the building. The site survey and 3D scan were used as evidence in a lawsuit.



1-40 & SR 13, Mobile LiDAR Scan, Tennessee (2023)

Stahl Sheaffer used mobile LiDAR to scan approximately 2 miles of I-40 East and West bounds, 0.40 miles of east off and on ramps, 0.42 miles of west off and on ramps, and 0.60 miles of SR 13. The roadway data was collected with the Leica Pegasus:Two traveling up to 50 mph. The data was processed to survey control, this has a tolerance of Vertical +/- 0.05 feet and a Horizontal +/- 0.07 feet. The point cloud and photos were provided to the client for extraction of the data to make a survey basemap.



Retaining Wall Survey, The Pennsylvania State University, Allegheny County, PA (2023)

Sheaffer performed a topographic survey of a failing retaining wall at the northernmost corner of the parking lot northeast of Broadway Avenue on the Penn State Greater Allegheny campus. The survey Area of Interest included the failing retaining wall, parking lot area, sanitary and storm water systems, existing utilities, trees 12 inches in diameter or larger, and approximately 135 feet of the wooded hill behind the failing wall. This survey was necessary to provide existing topography for new grading, sediment control design, sanitary sewer elevation adjustments, and parking lot improvements.



Pennsylvania Turnpike – Northeast Extension, 3D Mobile LiDAR Sign Inventory, Scranton, Lackawanna Co. to Albrightsville, Carbon Co., PA

Stahl Sheaffer drove 40 miles for four separate passes to total 160 miles, to conduct a comprehensive scanning of signs needed for the Pennsylvania Turnpike Commission Sign Inventory project. Scanning was completed with the Leica Pegasus:Two system so that LiDAR data could also be collected simultaneously with imagery. The imagery was utilized to better manage sign condition information by the Pennsylvania Turnpike from the Northern Terminus of the Northeast Extension to the Lake Harmony / Jim Thorpe off ramp (Exit 87) during the transition to Cashless Tolling along the interstate.

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

As a subconsultant for New Enterprise Stone & Lime, Inc. (NES&L), 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 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.

HRI – State Route 322, Juniata County, PA

Stahl Sheaffer provided Mobile LiDAR and Terrestrial 3D Scanning data of a set of bridges on Pennsylvania State Route 322 in Juniata County. The project included collecting 360-degree 3D Mobile LiDAR data and 3D scanning of the bridge surface and approaches to document existing pavement grade and cross slope for use in analyzing pavement conformance to design plans. The scanning found the grade to be out of compliance; a report and gradient map were prepared to display the irregularities in the bridge surface.



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

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.

Popple Construction – Interstate 81 Pavement Reconstruction, Lackawanna County, PA

Stahl Sheaffer acquired Mobile LiDAR data for an Interstate 81 highway pavement reconstruction project, for use in location of concrete pavement joints if needed to help determine or negotiate bid pay items.



Musser Gap to Valleylands Survey, The Pennsylvania State University, College Township, PA (2023)

Stahl Sheaffer performed boundary and topographical surveys of a 358-acre tract and coordinated an archaeological survey as part of the project. The survey was necessary to provide Penn State with a basemap for numerous future improvements proposed for this tract of land.

Leonburg Road ALTA Survey and Subdivision Plan, Mannik Smith Group, Cranberry Township, PA (2022)

Stahl Sheaffer performed ALTA survey of two tracts of land totaling 8.4 acres. Stahl Sheaffer also prepared a Lot



Consolidation Plan to combine the two tracts of land into one lot. The survey and consolidation plan were necessary to facilitate the planning and design for the expansion and the improvements of an existing manufacturing facility and parking lot.

EQT – SR 4005, SR 4007, SR 4008, SR 4010 and SR 4015 Roadway Improvement Project, Greene County, PA



Stahl Sheaffer performed full base mapping using surveygrade LiDAR scanning equipment, the Leica Pegasus:Two, for 12 miles of roadway in Greene County, PA, as well as traditional surveying to locate utilities and property boundary evidence for right of way plans as needed. Stahl Sheaffer used Overhead Clearance mapping for multiple compressor stations across multiple states and completed design and permit plans for cement-stabilized full depth roadway reclamation, asphalt overlays, and drainage

improvements repairs for SR 4007, SR 4005, SR 4008, SR 4010, and SR 4015.



Roofed Heavy Use Area & Manure Storage Facility Design, Spring Township, Snyder County, PA

Stahl Sheaffer provided site survey, land development, and structural design services for the roofed heavy use area (HUA) manure storage facility located in Snyder County, PA. Design was in accordance with the National Resources Conservation Service's (NRCS) standards set forth by the US Department of Agriculture (USDA) and utilized various construction materials. The 8,640 SF structure consists of preengineered timber roof trusses and 4-ply glue-laminated posts



supported on reinforced concrete foundation walls (integral with a reinforced concrete slab-ongrade) and spread footings. Design utilized various bracing, including wye bracing, knee bracing, diagonal bracing, and longitudinal bracing. Properly sized and designed stormwater devices including gutters, downspouts, swales, and underground outlets were included to maintain and divert additional runoff caused by the new structure. In addition to design services, Stahl Sheaffer also assisted with inspection services in the field throughout construction of the facility.



Shippensburg Streetscape, 3D Mobile LiDAR, US 11 Shippensburg, PA

As a subconsultant to RETTEW, Stahl Sheaffer performed 3D Mobile LiDAR scanning and acquired survey grade highresolution Mobile LiDAR point cloud data tied to survey control for a streetscape project in the town of 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.

SR 150 Lock Haven Signals, 3D Mobile LiDAR Base Mapping, Lock Haven, PA



As a subconsultant to Gibson-Thomas Engineering, Stahl 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, PA. 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 highresolution point cloud was used to

generate a 3D digital terrain model of the ground surface for use during design.

Shopping Center Site Improvements, Pleasant Valley Shopping Center, Altoona, PA

The project included removal of all existing concrete between the shopping center building entrances, and replacement 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.

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Personnel



CREDENTIALS

Professional Engineer: WV #PE014177 (1999) PA #PE061465 (2002)

Robert R. Milne, P.E.– Regional Office Manager – Morgantown, WV WV: PE# 014177 | O: 304.841.4299 | rmilne@stahlsheaffer.com

EDUCATION

Master of Science in Civil Engineering, West Virginia University Bachelor of Science in Civil Engineering, West Virginia University

PROFESSIONAL EXPERIENCE

Mr. Milne is the Regional Office Manager for Stahl Sheaffer's West Virginia location. Mr. Milne has 36 years of experience in the design and management of projects for WVDOH, West Virginia University, WVDNR, City of Morgantown, PennDOT, Pennsylvania Turnpike Commission, and additional state and municipal clients. His responsibilities include the day-to-day direction of the West Virginia operations; managing land development, roadway, and bridge design projects; and supervising and directing project teams. Mr. Milne is responsible for monitoring project budgets and project schedules, client/subconsultant coordination, and management of design teams for civil engineering projects.

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:

- WVDOH Greenbag Road Improvement Project, Morgantown, WV QA/QC for Right-ofway plan development and Final Design activities for the widening and installation of two new roundabouts along 1.5 miles of Greenbag Road to support the WVDOH in providing safety and operational improvements to reduce congestion and add pedestrian/bicycle accommodations along the corridor. The project involved an extensive alternatives analysis, roadway design, roundabout design, traffic control, drainage design, 3D LiDAR scanning, right-of-way development, preparation of a traffic study for intersection capacity and corridor analysis, and subconsultant oversight for the development of an EA, including extensive public involvement efforts.
- West Virgina Department of Highways District 5, West Virgina 42 over North Fork of Lunice Creek Bridge Replacement, Grant County, WV – QA/QC for the replacement of the existing concrete arch structure with a staged single span prestressed concrete box beam structure supported on a full height and integral abutments. The project also included roadway work including minor adjustments to the vertical and horizontal profile, guiderail replacement, and full depth roadway reconstruction.
- Rockwool Manufacturing Northport Avenue Extension, Ranson, WV Project Manager responsible for the development of construction documents for the 1,400 LF roadway

extension to serve the development of the 100-acre Rockwool Manufacturing site. This project utilized WVDOH Industrial Access Road Grant funding.

- City of Morgantown Eighth Street Trailhead, Morgantown, WV Project Manager responsible for the development of the construction documents for the Eighth Street Trailhead. This project included a concrete stairway with a wheeling channel to aide in access to the Caperton Trail system in Morgantown.
- West Virginia University Evansdale Drive Intersection Modification Project, Morgantown, WV – Project Manager responsible for providing construction documents to relocate Evansdale Drive to the north, added a two-lane ingress/egress to the south end of the coliseum parking lot, creating a 4-way intersection.
- West Virginia University, Evansdale Drive Pedestrian Improvements Transportation Enhancement Project, Morgantown, WV – Project Manager responsible for providing construction documents to reduce the width of the intersection and re-route a portion of Evansdale Drive to the west. This modification reduced the length and number of pedestrian conflicts with vehicular traffic.
- 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.
- West Virginia University Milan Puskar Stadium Renovation Project, Morgantown, WV Site Civil Task Lead responsible for the development of the site civil construction documents for this \$65M stadium upgrade project. Project included utility relocations, revised grading for the north gate entry, and landscaping amenities.
- Preston County Development Authority Grace Chapel, Preston County, WV Project Manager responsible for the site design, permitting, and construction oversight associated with the site development of a 5-acre +\- commercial pad and access road.
- **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.
- 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.
- 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.





CREDENTIALS

Professional Surveyor WV (2472) 2024 PA (SU060672) 2003

Chad Shaffer, PLS – Surveying Manager WV: PLS# 2472 | O: 570.933.9101 | cshaffer@stahlsheaffer.com

EDUCATION

Associate Civil Engineering Technology, Penn College of Technology

PROFESSIONAL EXPERIENCE

Mr. Shaffer is the Project Manager for Stahl Sheaffer's Survey Department, responsible for performing review of projects, directing staff surveyors and technicians, and managing client contact and project progress. He has 34 years of experience, and relevant projects include:

- 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 highresolution 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.

- North Atherton Street 3D Survey, State College, Centre County, PA Survey Project Manager for 3D survey and base mapping of approximately 9000 LF of North Atherton Street. Responsible for the oversight and scheduling of the survey crew and technicians as well as scheduling traffic control.
- The Pennsylvania State University Pollock Road Bollard Replacement, University Park, PA – Project manager for construction drawings and documents for a retractable bollard replacement project on Pollock Road.
- Clearfield Bridge Replacements, Clearfield County, PA Survey Manager for three bridge replacement projects, responsible for ROW location and preparation of ROW plans, utility location and coordination, and boring locations.
- PennDOT E03976, PA 56, Bedford County, PA Survey Manager for a bridge replacement project, responsible for ROW location and preparation of right-of-way plans, topographical and H&H surveys.
- **PennDOT District 3-0, PA Rapid Bridge Replacement Program** Survey Project Manager for the stakeout of ROW and temporary easements, construction stakeout, and topographical surveys for various bridges located within PennDOT District 3-0.
- 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.
- 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-ofway survey along with right-of-way and alignments stakeouts.
- Oakwood Grove Land Development Plan, Snyder County, PA Project surveyor and designer for 90-unit condominium development. As surveyor, he was responsible for deed and right-of-way research, boundary survey, aerial control survey, and utility locations. As design engineer, he was responsible for design of all streets and utilities, grading plans, erosion and sedimentation control plans, NPDES Permits, Post-construction stormwater management plans, Highway Occupancy Plans, and right-of-way dedication plans.
- Penn Commons Multi-Family Residential Survey, Union County, PA Managed survey for a 2.21-acre site for the construction code-based design of seven multi-story wood-framed residential structures with 31 apartment units along with related parking and infrastructure improvements. Stahl Sheaffer also performed Phase I Environmental Site Assessment due diligence review and structural design.



CREDENTIALS

Professional Surveyor PA (SU075707) 2022

Greg Copelli, PLS – Professional Land Surveyor PA: PLS# SU075707 | O: 814.512.8349 | gcopelli@stahlsheaffer.com

EDUCATION

Bachelor of Science in Surveying Engineering, Penn State University

PROFESSIONAL EXPERIENCE

Mr. Copelli has nine years of experience in both the field and office aspects of surveying. He is a licensed professional surveyor. In this role, he provides existing conditions, boundary, control, construction stakeout, and ALTA/NSPS surveys as well as Subdivisions/Lot Consolidation Plans and right of way plans as services provided to various private and public clients. This includes performing topographic surveys, boundary retracement, stakeout and construction layout, and managing control networks as well as processing field data, performing land records research, and completing projects from field to finish. Relevant projects include:

- SR 3014 Bluff Ridge Road, Greene County, PA Project Coordinator for this 7.5-mile-long project, responsible for processing all field data from multiple crews, 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 entire project to be viewed in 2D or 3D formats, created centerline alignments based off combinations of existing PennDOT Right-of-Way Plans and existing centerline to be geometrically correct, and built in GIS Property Mosaic.
- SR 3013 Oak Forest Road, Greene County, PA Project Coordinator for this 14-mile-long project, responsible for processing all field data from multiple crews, 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 entire project to be viewed in 2D or 3D formats, created centerline alignments based off combinations of existing PennDOT Right-of-Way Plans and existing centerline to be geometrically correct, and built in GIS Property Mosaic.
- Sandy Township TASA, Clearfield County, PA Project Coordinator and surveyor for this project. The project involved the survey of approximately 4500 feet of Maple Avenue, Shaffer Road and an abandoned railroad grade. Responsible for all field surveys, base map preparation, courthouse research, and right-of-way plans.
- Bellefonte Area School District Survey, Borough of Bellefonte, Centre County, PA Project Coordinator and Surveyor for this 108-acre boundary and topographic survey. Responsible for all field surveys of site and all features in the rights-of-way of two state roads and a private road. Processed data to create a base map of entire project area to be viewed in 2D or 3D formats, completed property research and acquired plans from PennDOT to set existing rights-of-way and boundary of subject parcel. Analyzed field findings with property record data to conclude subject boundary, reset missing monumented corners, and provided a Civil3D basemap and Boundary Plat to client as deliverables.



Jonathan Yerger – Survey Crew Chief O: 570.274.7552 | jyerger@stahlsheaffer.com

PROFESSIONAL EXPERIENCE

Mr. Yerger has over 26 years of experience as a surveyor. He 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 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.
- 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.
- 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, eastand 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.



Andrew Gouty, LiDAR Analyst II C: 304.916.5511 | O: 304.381.4281 x261 | agouty@stahlsheaffer.com

EDUCATION

Associate of Applied Science, Kanawha Valley Community College

PROFESSIONAL EXPERIENCE

Mr. Andrew Gouty is responsible for managing Stahl Sheaffer'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:

- 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.
- 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.
- 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.
- 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.
- **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.
- 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.
- The Pennsylvania State University, Pavement Assessment, Centre County, PA CAD Technician for comprehensive roadway classification, assessment, and asset management solution project. This project consists of scanning the streets and parking lots with the Leica Pegasus 2 mobile scanner to collect existing condition data, processing the data for review in MapFactory, and drawing the defects out to classify the streets and parking lots in need or priority maintenance/repair. This data is provided to Penn State via a client-specific asset management prioritization tool.
- The Pennsylvania State University, University Club, Center County, PA CAD Technician for scanning the interior and exterior of the 24,975 SF Penn State University Club Building using the FARO scanner, processing the data in Register 360, and creating a recap file for the client.

CREDENTIALS

- AUTOCAD
- Civil 3D
- Microstation
- Revit
- Sketchup
- Virtue Serve
- FARO Scene
- Leica Pegasus:Two
- Trimble MX7 Mobile Imagery
- GPS Acquisition
- TopoDOT
- Leica Register 360

Stahl Sheaffer COAs

StahlSheaffer Engineering

WEST VIRGINIA BOARD OF PROFESSIONAL SURVEYORS
Certificate of Authorization Stahl Sheaffer Engineering, LLC Morgantown, WV
CERTIFICATE OF AUTHORIZATION # 24-5967
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 01, 2024 through December 31, 2024
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 01 day of January 24 2024 June 2024 June 2024
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 Automotion 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
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.
Dorth S. Thomas for

BOARD PRESIDENT



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

State of West Virginia Centralized Request for Quote Service - Prof

Proc Folder:	1564534			Reason for Modification:
Doc Description:	PROFESSIONAL SURVEYI	NG SERVICES - SFLR 2		
Proc Type:	Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No		Version
2024-11-18	2024-12-17 13:30	CRFQ 0305 FOR250000002		1
BID RECEIVING LO	DCATION			
BID CLERK				
DEPARTMENT OF	ADMINISTRATION			
US	VVV 23303			
VENDOR				
Vendor Customer	Code: VC0000066437			
Vendor Name : St	ahl Sheaffer Engineering	g, Inc.		
Address : 250 La	akewood Center			
Street :				
City : Morgantov	vn			
State: WV		Country : US	Zip :	26508
Principal Contact	: Robert Milne, P.E.			
Vendor Contact Pl	n one: 304.381.4281	Extension:		
FOR INFORMATIO Brandon L Barr 304-558-2652 brandon.l.barr@wv.	N CONTACT THE BUYER			
Vendor Signature X	7. Shul	FEIN# 11-3759367		DATE 12/17/2024

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

ADDITIONAL INFORMATION

The West Virginia Purchasing Division for the Agency, The WV Division of Forestry is soliciting bids from qualified vendors to establish a contract for PROFESSIONAL SURVEYING SERVICES - SFLR 2 as described per the Specifications, Terms & Conditions and bid requirements as attached.

INVOIC	ЕТО		SHIP	то		
FORES	TRY DIVISION	OF	FORE	STRY DIVISION OF		
7 PLAYERS CLUB DRIVE			1ST F	LOOR		
DIVISIC	N OF FOREST	RY	7 PLA	YERS CLUB DR		
CHARL	ESTON	WV	CHAR	LESTON	WV	
US			US			
Line	Comm Ln I	Desc	Qty	Unit Issue	Unit Price	Total Price
1	PROFESSI SFLR 2	ONAL SURVEYING SERVICES -				\$166,000.00
Comm	Code	Manufacturer	Specif	cation	Model #	
811516	04					

Extended Description:

PROFESSIONAL SURVEYING SERVICES - SFLR 2

SCHEDULE OF EVENTS						
<u>Line</u>	<u>Event</u>	Event Date				
1	Questions due by December 9th, 2024 at 10:00 am ET	2024-12-09				

	Document Phase	Document Description	Page 3
FOR250000002	Final	PROFESSIONAL SURVEYING SERVICES - SFLR 2	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

EXHIBIT A – Pricing Page

Surveys, Certified Survey Plats and Certified Legal Descriptions

Section in RFQ	Description	Total Price
4.1	Surveys and preparation of certified survey plats and certified legal descriptions for property located in Hardy County, WV and described in Deed Book 127, Page 21 and for Conservation Easement Designated Improvement Areas.	\$166,000.00
The state cannot accept alternate pricing pages, failure to use Exhibit A Pricing Page could lead to disqualification of Vendor's bid. Vendor should type or electronically enter the information into the Pricing Page to prevent errors in the evaluation. No addtional compensation for travel expenses will be made to the successful vendor.		

BIDDER /VENDOR INFORMATION:

Vendor Name:	Stahl Sheaffer Engineering, Inc.
Address:	250 Lakewood Center
City, St. Zip:	Morgantown, WV 26508
Phone No.:	330.359.3006
Email Address:	rmilne@stahlsheaffer.com

Vendor Signature: PJ Sand