



**Missouri's
Local
Program**
*for community
development*

COVER SHEET

(This must accompany your firm's letter of interest and does not count in the page limit)

Firm's Full Legal
Name:

ALPHA ENGINEERING & SURVEYING, LLC

Firm Contact Name:

LEE SCHUMAN

Contact Email
Address:

LEE@ALPHAES.NET

Firm's Mailing Address:

PO BOX 282

OSAGE BEACH, MO 65065

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures
- Environmental
- Historic Preservation
- Multimodal Planning / Systems and Facilities Design
- Transportation Planning – **NEW CATEGORY**



Alpha Engineering & Surveying, LLC

3048 Hwy. 52
Eldon, MO 65026
(573) 392-3312

1037 Osage Beach Rd.
Osage Beach, MO 65065
(573) 348-5552

Civil & Structural Engineering Land Surveying Environmental Materials Testing

DECEMBER 10, 2025

To Whom It May Concern:

Thank you for your consideration of our company's qualifications for environmental services for the Missouri Local Program (LPA).

Alpha Engineering & Surveying, LLC (ALPHA), a collaboration of former lake area firms consisting of Miller Companies and Shoreline Surveying and Engineering, LLC, is a relatively new company. We believe we are best suited to assist the Missouri Local Program with all your upcoming projects.

Our ownership is comprised of the following professionals:

Lee Schuman, PE, LSI, Principal

Lee Schuman is a Missouri Registered Professional Engineer and Land Surveyor Intern working out of Osage Beach, Missouri office. He has over 14 years of experience in transportation and environmental engineering, budget preparation, grant administration, and construction management for local governments. He also has 6 years of experience managing up to 65 employees to design, maintain and repair public infrastructure, and 5 years of experience successfully applying for grants through FEMA, SEMA, MoDOT and CDBG.

Ethan Shackelford, PE, Principal

Ethan Shackelford is a Missouri Registered Professional Engineer working out of our Osage Beach, Missouri office. He has 10 years of experience in sewer treatment plant design, anti-degradation studies, sewer pump station design, transfer station design, construction project management, landfill design, cell construction, storm water design, storm water pollution prevention plans, spill prevention control and countermeasure plans, and landfill gas design.

Jared Wheaton, PE, Principal

Jared W. Wheaton has 19 years of experience in Civil Engineering consultation. Since 2012, he has been primarily responsible for project development, finance procurement and the complete design and administration of nearly \$40 million in local SRF funded infrastructure projects. Mr. Wheaton's experience includes a comprehensive variety of civil engineering design, consultation, construction administration, and oversight, as well as post construction quality control and testing. Primarily focusing on municipal utility infrastructure, he has also successfully completed many commercial, private, and manufacturing projects.

Colton Schulte, PLS, Principal

Mr. Schulte is a Missouri Registered Professional Land Surveyor, with a BS in Construction Engineering Technology from Missouri Western State University. He is a member of the Missouri Society of Professional Surveyors and is a local native to the Eldon Area. He has spent the past decade working in engineering & surveying with a focus on the surveying field, assisting in the development of residential and commercial property around the tri-county area.



In addition to our ownership group, our company employs several qualified individuals in different disciplines to assist with all ongoing projects. These employees include 1 additional Professional Surveyor (PLS); 1 Engineer Intern, 3 Land Survey Interns (LSI); 4 Engineering Techs; 5 Surveyor Tech; 1 Material Testing Tech; 1 Construction Inspector; 2 Environmental Techs; and 4 Administrative/Finance Employees.

We offer a variety of services that would assist the Missouri Local Program with any environmental projects including Environmental Engineering; Environmental Review procurement and permitting, Water Treatment & Distribution Systems; Wastewater Collection & Treatment Systems; and Land Surveying.

ENVIRONMENTAL ENGINEERING:

ALPHA provides our customers with reliable and cost-effective solutions to their civil engineering needs. Our Professional Engineering staff develop practical and proven Water & Wastewater solutions. Our full-service Engineering Department provides turn-key solutions to municipal, private, and special district infrastructure concerns. ALPHA is extremely effective in obtaining funding for these projects. To date our staff has been directly involved in securing over \$40 Million of free grant money and low interest loans. The frequently used funding agencies include – Rural Development, Department of Natural Resources, SRF, Community Development Block Grant, Rural Business Enterprise Grant, and Missouri Department of Transportation programs.

ENVIRONMENTAL ENGINEERING SERVICES INCLUDE:

- ◆ Environmental Review procurement
- ◆ Cultural Resource coordination
- ◆ Environmental site assessment
- ◆ Environmental permitting
- ◆ Water treatment and distribution systems
- ◆ Wastewater collection and treatment systems
- ◆ Storm water drainage systems
- ◆ Right-of-way acquisition
- ◆ Solid waste landfill design
- ◆ Solid waste hauling facility design



CONSTRUCTION MATERIALS TESTING SERVICES INCLUDE:

Soil Testing

- ◆ Proctors
- ◆ Atterberg limits
- ◆ Grain size analysis
- ◆ Moisture content
- ◆ Compaction with nuclear densometer and sand cones
- ◆ Lime stabilization
- ◆ Geotechnical exploration through sub-consultant

Concrete Testing

- ◆ Slump
- ◆ Air entrainment
- ◆ Cylinders in field
- ◆ Compressive strength

Aggregate Testing

- ◆ Sieve analysis
- ◆ Asphalt Testing
- ◆ Super Pave certified

Field Testing

- ◆ Field Density Testing
- ◆ Pile Drive Logging
- ◆ Welding Inspection

LABORATORY – IN HOUSE & FIELD

ALPHA'S laboratory is capable of performing a full range of testing services required to meet the needs of our Construction Materials Testing Department. Our laboratory is uniquely designed with production in mind. We have worked closely with USACE on many substantial projects over the years that have helped us perfect our Materials Testing process. The following features ensure ALPHA has the capacity to perform the materials testing:

EQUIPMENT

Concrete Compression Machine
Concrete Cylinders (significant quantity)
Mechanical Soil Grinding Machine
Automatic Proctor Machine
Field Density Testing
Vibration Monitoring Equipment
Pile Drive Monitoring Equipment



LAND SURVEYING

ALPHA'S Land Surveying personnel have been responsible for over 100,000 boundary surveys in Missouri primarily at the Lake. Our seasoned crews have extensive experience that ranges from USACE levee projects, MoDOT State Highway and road projects throughout Missouri, airport expressways, commercial site design and land development projects. Some of ALPHA's valued clients include local city governments whom they have partnered with to produce city zoning maps and assist with land annexations, and local auction houses to prepare land surveys for auction. Our land surveying department has performed hundreds of ALTA/ACSM surveys and assisted countless Lake of the Ozarks clients with their FEMA floodplain certification surveys.



We look forward to the opportunity to take on any environmental projects for the Missouri's Local Program and we can make our personnel available when needed for any of your projects regardless of time and location. We take pride in being able to mobilize the necessary crew and equipment to meet any schedule. We provide regular design and construction services for projects in the Lake of the Ozarks region, and central Missouri. We currently have offices in Eldon and Osage Beach, and all of our staff is proud to call the Lake area our home.

Thank you again for your consideration environmental services for the Missouri Local Program. If you have additional questions, you can contact Lee Schuman, PE, LSI at (573) 348-9799 or at lee@alphaes.net.

Sincerely,



Lee Schuman, PE, LSI
Principal

Alpha Engineering & Surveying (ALPHA), is a collaboration of former lake area firms and is a relatively new company formed in July 2023. However, since opening our doors, we've serviced to date over 1,000 projects ranging in size and complexity from the standard beam design to the complete design and administration of multimillion dollar municipal water/sewer system projects. Of the municipalities, we currently have active projects with Osage Beach, Lake Ozark, Sunrise Beach, Gravois Arm Sewer District, Miller County Commission, Rocky Mount Sewer District and Callaway County Sewer District.

Being a small engineering firm in rural Missouri, we've had the opportunity and privilege to gain experience in practically all disciplines of civil engineering and land surveying. By doing so, we offer our clientele a wide range of services in the engineering and surveying fields.

If you would like work with our team at the beautiful and exciting Lake of the Ozarks, give us a call today!

Jared Wheaton, PE, Principal
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jared@alphaes.net

Lee Schuman, PE, LSI, Principal
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engineering & surveying firm
located at the beautiful Lake of the Ozarks



Our Services:

- ✓ CIVIL ENGINEERING
- ✓ STRUCTURAL ENGINEERING
- ✓ LAND SURVEYING
- ✓ ENVIRONMENTAL SERVICES
- ✓ MATERIAL TESTING

Contact Us



Visit Our Website:
<https://alphaes.net/>

OUR SERVICES:

CIVIL ENGINEERING

Water Treatment/Distribution Systems
Wastewater Collection/Treatment Systems
Storm Water Drainage Systems
Construction Observation
Structural Design/Inspection
Roads And Highways
Subdivisions
Commercial Site Development
Enviro. Site Assessment
Enviro. Permitting
Generation, Transmission, Distribution Systems for Electric Utilities
Right-Of-Way Acquisition

LAND SURVEYING SERVICES

ALTA/ACSM Surveys
Boundary Surveys
Engineering Design Surveys
Construction Layout Surveys
Subdivisions
Condominiums
Floodplain Certification Surveys

STRUCTURAL ENGINEERING

Foundation Design
Retaining Wall Design
Concrete and Steel Bridge Design
Steel Beam & Column Design
Concrete Beam & Column Design
Timber Beam & Column Design
Elevated Concrete Slab Design
Truss Analysis & Design
Structural Evaluations and Inspections

MATERIALS TESTING

Soil Testing
Proctors
Atterberg Limits
Grain Size Analysis
Moisture Content
Compaction With Nuclear Densometer and Sand Cones
Lime Stabilization
Geotechnical Exploration
Concrete Testing
Slump
Air Entrainment
Cylinders In Field
Compressive Strength
Aggregate Testing
Sieve Analysis
Asphalt Testing
Super Pave Certified
Field Testing
Pile Drive Logging
Welding Inspection