



ENGINEERING & PROFESSIONAL SERVICES

FIRM EXPERIENCE

ROADWAY DESIGN

SUBMITTED TO:

Missouri Department of
Transportation



SUBMITTED BY:

ENGINEERING SURVEYS & SERVICES



ES&S is a trusted multidisciplinary firm serving clients since 1954, offering civil, geotechnical, and environmental engineering, surveying, materials testing, and landscape architecture. With three offices across Missouri and project experience throughout the U.S., we deliver site-responsive, constructible solutions tailored to municipal, community, hospitality, utility design, and commercial developments—bringing client visions to life through a collaborative and market-driven approach.

Our three locations allow efficient and effective response to your needs for design, design-support, and construction-support services. We have an onsite materials labs in our three locations with a USACE- validated construction material testing labs in Columbia as well as a mobile testing lab.

Key Personnel & Team Capacity

Engineering Surveys & Services (ES&S) organizes its services within four core practice areas, led by the following individuals to provide planning and design of civil infrastructure and site development. From concept through construction they are available to help facilitate projects.



- Ben Ross, PE, PTOE – Vice President, Civil Engineering. Ben will serve as Principal-in-Charge and primary contact. He has over 30 years of experience leading roadway, traffic, and municipal infrastructure projects across Missouri, including corridor improvements, safety enhancements, and multimodal accessibility upgrades.
- Fred Carroz, PLS –Vice President, Land Surveying. Fred leads survey operations including boundary, topographic, and right-of-way acquisition mapping. In addition to traditional survey methods, Fred’s team utilizes UAS and 3D scanning technologies to expedite data collection and improve accuracy.
- Josh Lehmen, PE – Vice President, Geotechnical & Construction Support. Josh oversees laboratory services, subsurface investigations, and construction materials testing. He manages MoDOT-certified technicians and a USACE-validated testing lab.
- Chadd Fuemmeler, MLA, PLA – Landscape Architecture Lead. Chadd leads ES&S’s landscape architecture services, integrating site design, planting, and open-space planning with civil engineering to create context-sensitive, sustainable, and community-focused solutions. His experience includes municipal streetscapes, park and trail systems, and commercial development projects throughout Missouri and beyond.

Supporting these leaders is a staff of sixty engineers, landscape designers, surveyors, field technicians, design drafting and inspectors—one of the strongest and most stable engineering and design/construction support practices in mid-Missouri. Our proximity allows us to mobilize quickly and maintain strong coordination with City staff, contractors, and stakeholders as we work to integrate our services through the life of a project.

To discuss strategic partnering with ES&S, contact:
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Sedalia
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As a full-service design practice, ES&S offers our clients comprehensive engineering planning, consulting, and design services related to public infrastructure. Our focus areas include public works improvements, commercial, institutional, educational, and industrial development. Our firm's specific service offerings include:

Design and Consulting

Our engineering, design, and support personnel have the technical expertise and project management skills needed to guide projects from the conceptual design phase, through construction documents, to facility startup. With our extensive design experience supplemented by our knowledge of local, county, state, and federal regulations pertaining to site infrastructure, layout, and requirements, we can manage and design a variety of unique projects:



Civil Engineering

Land-Use Planning	Storm Water & Floodplain Management
Conceptual Site Screening & Layout	Storm Water Quality & Impact Mitigation
Permitting for Site Development	Channel Protection & Restoration
Transportation Planning & Roadway Design	Pavement Consulting
Site Plans	BMP Continuing Inspections



Geotechnical Engineering

Subsurface Investigations	MSE Retaining Wall Design
Soil Analysis & Classification	Global Stability Analysis
Slope & Stream Bank Stabilization	Hydrology & Hydrogeology
Foundation & Pavement Design Recommendations	



Environmental Engineering

Facility Planning & Engineering Reports	Drinking Water Distribution Systems
Waste Water - Small Treatment Systems	Surface Water Monitoring & Evaluation
Waste Water Collection Systems	Permit & Grant Application Assistance
Analytical Laboratory: Water & Waste Water Laboratory Analysis	

Land Surveying & Data Collection

Leveraging the latest equipment technology in data acquisition, ES&S's land surveying division is fully capable of providing all of your surveying needs. The firm's long history in central Missouri has produced an extensive inventory of records and project files for land corner momentation on all types of tracts and parcels throughout the region. We also offer capability to use Unmanned Aircraft System (UAS; i.e., drones) and scanning technology to efficiently collect data to best serve the needs of the project. ES&S regularly provides the following land surveying services:



Topographic Survey	Cadastral & Geodetic Surveys
Boundary Surveys	Construction Surveys & Layout
Utility Surveys & Mapping	Volumetric Surveys
Hydrographic Surveys	GPS Machine Control Setup
ALTA/NSPS Land Title Surveys	Land Acquisition Assistance
UAS Photogrammetry/ Aerial Imagery	3D Scanning & Precision Surveys

