



**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:

Kaskaskia Engineering Group, LLC

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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**



Letter of Interest: Roadway Design

Missouri's Local Program (LPA) For Community Development

Kaskaskia Engineering Group, LLC (KEG) has successfully partnered with numerous local public agencies (LPAs) on complex projects across the Midwest. Our team of project managers, engineers, designers, technicians, and support staff has the **depth of experience and availability to support the ongoing needs for multi-year relationships with LPAs.**

KEG has been producing high-quality construction plans, specifications, contract documents, and cost estimates for roadway and intersection improvements for almost 20 years. We are committed to delivering **every project on time and within budget**, and we are prepared to effectively navigate any challenges that arise, such as accelerated schedules and funding shortfalls.

KEG's roadway engineers, traffic engineers, support personnel, and CAD drafters/technicians have successfully delivered a wide range of infrastructure improvement projects, including roadway widening and rehabilitation, resurfacing programs, intersection design, slide repairs, traffic signal installations, interchange design, and much more. Our Transportation Team is supported by specialists in hydraulics, geotechnical engineering, environmental compliance, right-of-way, traffic engineering, and modeling - allowing us to provide **comprehensive, integrated roadway design solutions.** Whether the project involves major reconstruction or a rural roadway in need of resurfacing, **KEG's multidisciplinary staff is fully equipped to prepare the necessary design plans, modeling, specifications, and cost estimates to support our LPA partners in improving their communities' infrastructure.**

Our work does not stop at the design. KEG's QA/QC process is heavily documented and enforced on each project and deliverable. Nothing leaves our desk without at least two sets of eyes for review. **This allows our clients to spend less time reviewing for technical errors and more time providing feedback on our work.** All our designs go through this stringent and documented QA/QC process to ensure our clients receive quality work with layers of review.

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> Accessibility

Our level of service, responsiveness, nimble approach, and work completed has earned us more than 2,500 projects from State DOTs, as well as ongoing relationships and a positive reputation among our many LPA clients. KEG's offices are located in Ste. Genevieve, Missouri; Belleville, Glen Carbon, Champaign, Peoria, and Geneva, Illinois; Evansville, Indiana; and Saint Paul, Minnesota. Our St. Louis area offices house the bulk of our staff, including structural, geotechnical, transportation, civil, and hydraulic engineers, as well as environmental scientists.

In addition to our proximity, our engineers have the availability to begin working on work orders associated with this contract immediately, providing quick response time to any and all project needs throughout the state. **Our size and ability to take on work without the usual red tape of larger firms is a great advantage to our LPA clients.**

> Familiar & Capable

KEG's team of experienced roadway engineers and support staff customizes its approach to each unique project. All project requirements are translated into comprehensive plans, specifications, and construction cost estimates for LPA review. Our design engineers work closely with our in-house CAD technicians to produce 3D models that support accurate, efficient, and constructible roadway designs.

> Past Performance

KEG has successfully completed a wide range of projects in compliance with both **state and federal funding, specifically with MoDOT and LPAs**. We are an experienced partner for road and street design; highway design; widening and adding travel lanes; resurfacing; pavement repair or reconstruction; sidewalk and trail reconstruction or realignment; utility coordination and relocation; ADA ramp design; streetscape features such as lighting, landscaping, and signage; and intersection improvements, including the addition and/or modification of turn lanes, signals, and crosswalks. We have included some example projects from throughout the Midwest below to showcase our team's talents and acumen.

West Washington Street Resurfacing

Owner: City of Belleville, Illinois

KEG provided preliminary and design engineering services for the milling and resurfacing of 0.33 miles of West Washington Street, from South IL 159 to Centreville Avenue, in Belleville, Illinois. The improvements included the milling and overlay of the roadway with 2-inch asphalt, removal and replacement of existing concrete barrier curbs, and upgrading the pedestrian facilities by constructing new concrete sidewalks and curb ramps meeting federal and state ADA requirements. The new sidewalks and ramps provide a pedestrian accessible route from Centreville Avenue to Illinois Route 159 along both sides of West Washington Street.

KEG was tasked with the completion of field surveys of the project corridor, right of way acquisition and easements, preparation of the Project Development Report (PDR) and both preliminary and final design plans. KEG also prepared an Environmental Survey Request, which was needed due to the project's potential to affect a historic district, and possibility of acquiring right-of-way, permanent easements, and temporary construction easements.



Northside Regeneration

Owner: City of St. Louis Development Corporation

KEG provided utility coordination and relocation/abandonment design services for the redevelopment of approximately 97 acres in North St. Louis, Missouri. Existing utilities were located within public ROW as well as private easements. Due to the 550 parcels, city streets, and alleys being vacated and consolidated into one property, all of the existing utilities located within the project limits had to be relocated. KEG engineers coordinated between the utility companies to determine the best location for each of the utilities to relocate to while meeting all of their requirements for construction and future long-range expansion plans. KEG engineers utilized GIS and CAD models to develop 3-D renderings as well as traditional plan, profiles, and cross sections to determine the locations, both horizontally and vertically, for the relocated utilities along the Cass Avenue and 22nd Street utility corridor. The plans were used by the St. Louis City Streets Department in issuing permits to the individual utility companies to relocate their utility within the streets surrounding the project site. Design for the rerouting and abandonment of sanitary sewer lines owned by the St. Louis Metropolitan Sewer District was also included in the project scope. The sewer system could no longer traverse the project site so the entire system was analyzed and redesigned to provide for service to the proposed site and maintain a sewer system to the surrounding area.

Business 50 Reconstruction

Owner: City of Washington, Indiana

The City of Washington was reconstructing and making intersection improvements along the Corridor, including full pavement reconstruction and utility replacements. **The project was funded as part of the Indiana Department of Transportation/Federal Highway Administration (INDOT/FHWA) LPA program.** KEG was responsible for traffic data collection and traffic signal design in support of the project. KEG performed data collection and analysis for volume counts and signal warrants. KEG then performed complete traffic signal design for 6 signals (3 replacements, 2 modernizations, and 1 new install). The design included signal pole relocations for intersection reconstruction, and the preparation of an INDOT Traffic Signalization Plan for submittal.

Walnut Street and Taylor Street Intersection Improvements

Owner: City of Champaign, Illinois

KEG was responsible for the preparation of design plans and contract documents for proposed roadway and streetscape improvements at the intersection of Walnut Street and Taylor Street in Champaign, Illinois. KEG's scope included preparing plans, specifications, and quantities including typical sections, removal plans, sidewalk grading plans, traffic control, drainage, erosion control, intersection warping, pavement marking, and Americans with Disabilities (ADA) ramp design. The project provided sidewalk bump outs allowing for safer pedestrian travel, as well as additional sidewalk seating for downtown restaurants.

> Qualifications of Personnel



Bryan Donze, PE, RSP | Lead

EDUCATION

BS, MS, Kansas State University, Civil Engineering

REGISTRATIONS & CERTIFICATIONS

Professional Engineer: Missouri (PE-2023007176)
Road Safety Professional
Certified Railroad Coordinator
Certified Utility Coordinator
LPA Basic Training

Mr. Donze has 19 years of experience in civil engineering, including roadway, intersection improvement, and structure repair plans, as well as pavement and storm sewer designs and the preparation of special provisions, quantities, and bidding documents. His experience includes management of a wide variety of transportation projects, including roadway widening, resurfacing, and pavement reconstruction projects, as well as civil design projects including parking lots, recreational sites, and pedestrian sidewalks or multi-use trails. His experience encompasses every phase of federal, state, and municipal projects.



Eric Lindemann, PE

EDUCATION

BS, University of Notre Dame, Civil Engineering

REGISTRATIONS & CERTIFICATIONS

Professional Illinois (062.051170)

Mr. Lindemann has 39 years of experience in civil engineering, specifically in the design and planning of transportation and infrastructure projects for state, municipal, and commercial development. He has excelled at managing multi-discipline project teams for timely and cost-effective completions, such as both new and rehabilitated pavements; bridges and retaining walls; interchange and intersection improvements; traffic signals and interconnected signal systems; roadway lighting; roadway drainage and stormwater detention; and guardrail, landscaping, signing, and traffic control and protection plans.



Bob Osborn

EDUCATION

Cleveland High School, St. Louis, Missouri

Mr. Osborn has 47 years of experience designing transportation, storm sewer, sanitary sewer, subdivision, and commercial sites. He has been involved in both the planning and final design process. Mr. Osborn is familiar with MoDOT, St. Louis County, and Metropolitan St. Louis Sewer District (MSD) standards. He has completed projects for developers and municipalities and is proficient in OpenRoads Designer, MicroStation V8i, AutoCAD Civil 3D, AutoTURN, and GuidSIGN.



Geri E. Boyer, PE, VMA | Principal in Charge

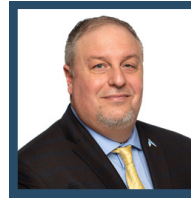
EDUCATION

BS, University of Missouri Rolla, Mining Engineering
BS, Southern Illinois University Edwardsville, Civil Engineering

REGISTRATIONS & CERTIFICATIONS

Professional Engineer: Missouri (2006000083)

Ms. Boyer is Founder and President of KEG and spent a substantial portion of her career with the Illinois Department of Transportation (IDOT) coordinating and reviewing local agency projects from the planning stage to the completion of construction. Ms. Boyer has worked on all aspects of roadway projects. Her experience in the transportation field includes engineering reports to preliminary engineering for streets, freeways, highways, interchanges, arterials, corridors, complete streets, and multi-modal transportation facilities. Ms. Boyer is also an experienced Right of Way (ROW) negotiator and has successfully managed the ROW process from planning to acquisition and construction on numerous LPA projects.



Bryan Veale, PE

EDUCATION

BS, Rose-Hulman Institute of Technology, Civil Engineering

REGISTRATIONS & CERTIFICATIONS

Professional Engineer: Indiana (PE10201142)
Certified Utility Coordinator

Mr. Veale has 31 years of experience in civil engineering. He is proficient in utility coordination and the supervision of road and bridge construction, including quality control and documentation. His project experience includes surveying, site design, hydrology, cost estimating, civil design, drainage and sewer design, preliminary and final plan preparation, contract documents, cost estimating, and construction inspection.



Jacob Warner, PE

EDUCATION

BS, Valparaiso University, Civil Engineering,
MS, Iowa State University, Civil Engineering (Transportation)

REGISTRATIONS & CERTIFICATIONS

Professional Engineer: Illinois (062-074916)

Mr. Warner's experience includes the planning, design, and production of engineering design plans, as well as utility design, cost estimates, construction documents, and feasibility studies. Mr. Warner has worked on a wide range of transportation projects, including roadway extensions, rehabilitations, restorations, and resurfacing projects, as well as intersection and interchange improvements. He has led tasks such as intersection design, maintenance of traffic plans, traffic signal plans, ADA upgrades, and final contract plans. He is proficient in OpenRoads Designer, MicroStation (GeoPAK and OpenRoads Designer), AutoCAD Civil 3D, and AutoTURN.



Ste. Genevieve, MO • Belleville, IL • Glen Carbon, IL
 Peoria, IL • Champaign, IL • Geneva, IL
 Evansville, IN • St. Paul, MN



> About Our Company

Kaskaskia Engineering Group, LLC (KEG), founded in 2006, is a majority woman-owned firm delivering exceptional engineering and contracting services through technical expertise, collaboration, and proactive communication. Our diverse capabilities allow us to approach projects holistically, considering every phase and stakeholder need.

For over a decade, KEG has provided The Missouri Department of Transportation (MoDOT) with quality services in transportation engineering, environmental studies, structural engineering, geotechnical engineering, and value engineering. Building on this experience - and our work with other DOTs and Local Public Agencies (LPAs) - we are more than capable to expand our services in Missouri through MoDOT's LPA program. Known for responsiveness and local expertise, we deliver timely, practical solutions tailored to Missouri communities and MoDOT requirements. Additionally, KEG has local staff in Missouri who are able to mobilize quickly and provide both field work and design solutions for this on-call contract. We will be a responsive, flexible, multidisciplinary partner for MoDOT's LPA projects. **For this pursuit, we are seeking to be listed in the categories of Roadway Design; Traffic Engineering and TEAP; Structures; Environmental; and the new category of Transportation Planning.**

> How We Serve LPAs

KEG began as a firm that served the needs of our local community. Although we have grown substantially in our almost 20 years in business, our passion for assisting LPAs with their infrastructure needs remains the same. We have decades of experience not only in consulting for local agencies in transportation planning and design, but also working hand-in-hand with local leaders and administrations for cost-effective and timely solutions to their local roads and bridges. **Additionally, KEG is fully prequalified with MoDOT, including the E-Verify, Financial, Federal Aid Basic Training, Bridge Forms, and Bridge QC/QA Plan prequalifications.**

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> Certifications

CERTIFIED DBE

Missouri Regional Certification Committee

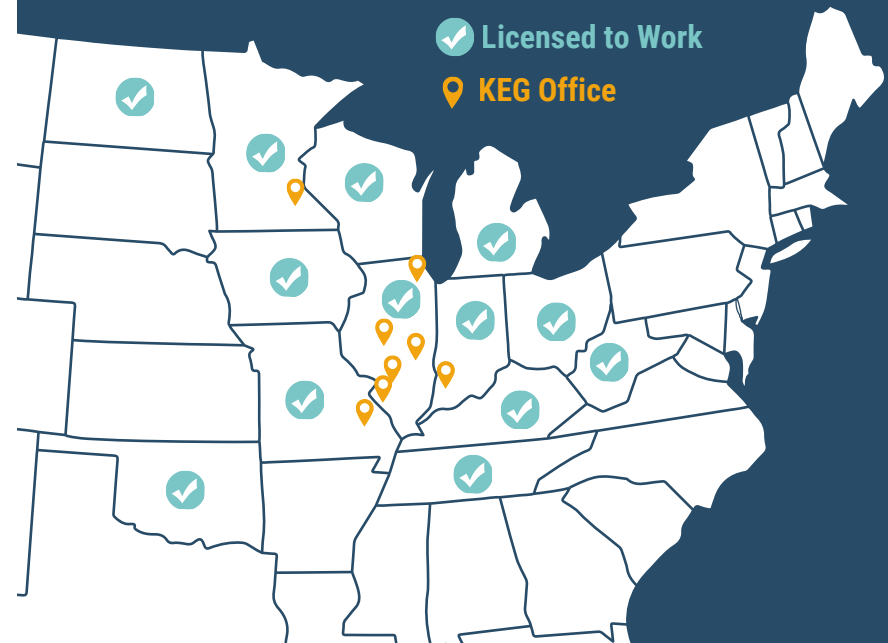
LICENSED WBE

Missouri Office of Administration Office of Equal Opportunity

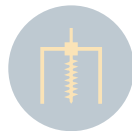
WOMEN-OWNED SMALL BUSINESS (WOSB)

Small Business Administration

WOMEN BUSINESS ENTERPRISE NATIONAL COUNCIL (WBENC)



> Key Services



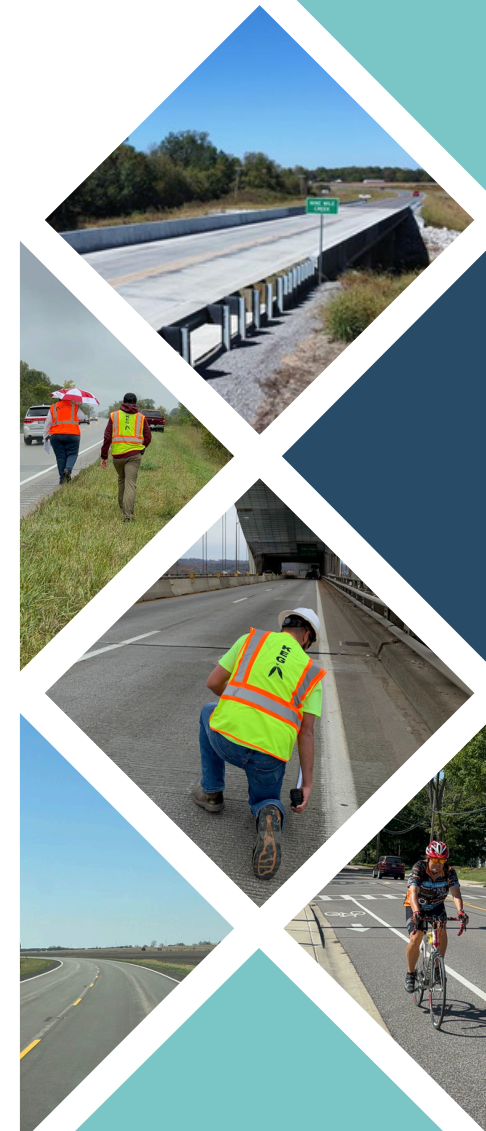
Transportation Planning & Design

Applicable Work Categories: Roadway Design, Traffic Engineering & TEAP, Environmental, and Transportation Planning

Our Transportation Planners and Engineers are able to take a concept and move the idea forward towards reality, balancing the impacts and benefits to the local community. We have performed transportation planning for projects that range in size from small projects with localized impacts to large projects that have regional and statewide significance. We have the education, training, and experience to design multi-modal transportation projects that enhance our communities by increasing safety, providing mobility, reducing pollution, and spurring economic development. Our design services improve our communities and the lives of those in them, while creating job opportunities and respecting the environment in which we live.

Services Include:

- Long Range Planning Studies
- Feasibility Studies
- Community Comprehensive Plans
- High Speed Rail Studies
- Public Involvement
- Purpose & Need Statements
- Demographic Studies
- Social & Economic Studies
- Cohesive Analysis of Land Use
- Neighborhood & Community Cohesive Impacts Studies
- Traffic Analysis Studies
- Interchange Access Justification Reports
- Interchange Design Studies
- Intersection Design Studies
- Development Impact Studies
- Intermodal Analysis & Studies
- Roadway Conditions Analysis
- Analysis of Roadway Networks
- Multi-Use Path Studies & Needs Analysis
- Multi-Modal Transportation Studies
- Master Planning
- Traffic Modeling
- Traffic Counts
- Traffic Signal Coordination & Timing
- New Alignments, Realignment, & Resurfacing
- Highway Plans, Cost Estimates, & Specifications
- Local Agency Road Plans, Cost Estimates, Specifications, & Bid Analysis
- Design of Multi-Modal Components
- Drainage Analysis & Improvement Plans
- Traffic Control Plans
- Utility Coordination & Engineering
- Land Title/ROW Negotiation
- Pavement Design & Life-Cycle Cost Analysis
- Maintenance of Traffic Plans
- Signing & Pavement Marking Plans
- Traffic Signal Design
- Design/Build Partnerships
- Streetscape Design
- Water & Sewer Line Relocation/Replacement Plans
- QC/QA Plan Review
- Value Engineering
- Public-Private Partnerships



> KEG's LPA Project Highlights

Centreville Avenue Resurfacing Belleville, Illinois

- Phase I/II engineering design
- Utility relocation
- Planning and preliminary engineering
- Contract quantity calculation and special provisions
- Bid analysis
- Grant writing

DeKalb ADA Improvements DeKalb, Illinois

- Design-Build for 65 ADA Improvements for intersections in a local subdivision
- GIS Database
- Quantities, schedules, and budgeting
- PROWAG compliance

Edwardsville North Main Streetscape Edwardsville, Illinois

- Beautification and pedestrian safety improvements
- ADA upgrades
- Planning and preliminary engineering
- Environmental compliance
- Streetscape design, ROW determination, preliminary and final plans, specifications, and estimates
- Water main relocation and sewer lining

Key Services



Structural Engineering

Applicable Work Category: Structures

KEG's Structural Engineering Team brings extensive experience, exceptional education, and professional licensure to every project. Our engineers inspect, plan, and design a wide range of structures - including buildings, bridges, retaining walls, culverts, and other structure types. While our structures portfolio includes major projects like the **MoDOT Bootheel Design-Build project bundle**, our Team also routinely delivers high-quality services for rural bridge rehabilitations and replacements. No matter the size, we approach each structural assignment with a focus on safety, performance, constructability, and long-term durability, while also respecting the client's aesthetic desires and cost considerations.

Services Include:

- Steel Bridge Design
- Concrete Bridge Design
- Foundation and Pile Design
- Type, Size, and Location (TS&L) Details
- Bridge Planning
- Bridge Condition Reports
- Erection Plans
- Load Ratings & Capabilities
- Pre-Cast Culvert Design
- Cast-in-Place Culvert Design
- Temporary Shoring Plans and Design
- Retaining Wall Design
- Sign Structure Design
- Sign Truss Inspection
- Lighting and Signal Poles
- Bridge Painting Plans
- NBIS Bridge Inspections
- Element Level Bridge Inspections
- Bridge Management
- ITS Structures
- Hydraulic and Hydrologic Studies, Analysis, and Reporting



Geotechnical Engineering

Applicable Work Categories: Roadway Design, Structures

Our geotechnical engineers and geologist are proficient in the application of soil and engineering mechanics, subsurface exploration methods, and laboratory investigation techniques. KEG has the expertise to investigate and evaluate complex subsurface conditions. We have performed geotechnical investigations for major river crossings, levees, municipal buildings, commercial and industrial developments, landslides, bridges, retaining walls, roads, utilities, tunnels, and dams.

Services Include:

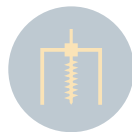
- Subsurface Exploration
- Geotechnical Reports
- Slope Stability Analysis
- Site Suitability Evaluation
- Foundation Engineering & Analysis
- Pavement and Subgrade Design
- Standard and Reinforced Earthen Slope and Embankment Design
- Review of Excavation Bracing
- Earth Dam and Levee Assessment
- Excavation Assessment and Design
- Retaining Wall Assessment and Design
- Subsidence and Landslide Remediation
- Foundation Installation Monitoring
- Tunnel Installation Monitoring
- Slope Failure Investigations
- Sinkhole Investigations
- Foundation Underpinning Consulting
- Seismic Surveys
- Ground Penetrating Radar (GPR) Surveys
- Frequency Domain Electromagnetic (FDEM) Imaging
- Electrical Resistivity
- Specification Preparation or Review
- Earthwork Monitoring
- Groundwater Monitoring

Route C Bridges Over Turkey Creek

KEG completed **subsurface exploration and analysis** for two single-span **bridge replacements along Route C in Carroll County, Missouri**, after the structures were damaged or washed out due to Spring flooding in 2019.



Key Services



Civil Design & Engineering

Applicable Work Categories: Roadway Design, Traffic Engineering & TEAP, and Structures

KEG's civil engineers, planners, and GIS technicians bring the technical expertise and practical experience required to support the development of residential subdivisions, public building projects and expansions, commercial sites, shopping centers, and industrial parks. Our team has delivered successful civil design solutions for projects ranging from small, single-site developments to large, high-traffic, multi-use facilities.

Services Include:

- Development Feasibility Studies
- Subdivision Platting and Zoning
- Master Development and Land Planning
- Stormwater Management, Detention and Retention Basins, and Outfall Systems
- Water Supply and Distribution Systems
- Wastewater Collection
- Site Layout, Grading, and Earthwork Design
- Cost Estimates/Value Engineering
- Local, State, and Federal Permitting
- Intersection Design Studies
- Roadway Widening and Traffic Signal Plans
- EPA Stormwater Pollution Prevention Plans
- Traffic Engineering
- NPDES Permit Applications and Programs
- Conceptual Site Plan Rendering
- Demolition Plans
- Land Title Negotiation



Environmental & Planning

Applicable Work Categories: Environmental, Transportation Planning

Our environmental scientists and engineers understand the diverse federal and state policies and procedures associated with both large and small-scale assignments. Our team can shepherd any project through these cumbersome regulations to bring value to the community, improve the project's efficiency, and respect and preserve the environment.

Services Include:

- Environmental Impact Statements (EIS)
- Environmental Assessments (EA)
- Preliminary Environmental Site Assessments (PESA)
- Categorical Exclusions (CE)
- Wetland Delineations
- Plant Ecology
- Resource Agency Permitting
- Threatened and Endangered Species Identification
- Noise Studies
- Wetland Mitigation
- Section 404/401 Permitting
- Biological Surveys and Analysis
- Floodplain Management Studies
- Air Quality Analysis
- Archeological Resource Identification
- Agriculture Impact Studies
- Historic Resource Identification and Section 106 Report
- Cultural Resource Coordination
- Open Space, Recreational, and 4(f) Studies

Our Philosophy & Purpose

KEG's purpose is to make the world a better place through the practice of engineering, and our partnerships with Missouri's LPAs would allow us to put that purpose into action. Together, we hope to plan and design projects that strengthen communities, support economic growth, and honor the natural environment. Our commitment to excellence and dedication to public service set us apart from other engineering firms, and we look forward to the opportunity to bring that philosophy into our work in Missouri.

