



**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

Firm Contact Name:

Rebecca Boyer

Contact Email
Address:

BBoyer@kaskaskiaeng.com

Firm's Mailing Address:

208 East Main Street

Suite 100

Belleville, IL 62220

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: Environmental Missouri's Local Program (LPA) For Community Development

Kaskaskia Engineering Group, LLC (KEG) has a long history of supporting LPAs on environmentally focused projects that require technical skill and regulatory awareness. KEG's team provides environmental professionals that have substantial expertise in providing Environmental Services for multidisciplinary projects. To ensure each project progresses efficiently, we offer a surplus of experience in field evaluations, environmental documentation, and project management. KEG is committed to delivering your projects on time and within budget. **KEG is fully prequalified with MoDOT, and our relevant experience in managing, writing, and reviewing environmental documents exhibits our understanding of and ability to adequately complete the NEPA process.**

The Environmental Team at KEG collectively has over 100 years of specialized environmental study experience. This experience includes each type of NEPA documentation:

- Categorical Exclusions (CEs),
- Environmental Assessments (EAs)/Findings of No Significant Impact (FONSIs),
- Environmental Impact Statements (EISs)/Records of Decision (RODs),
- and numerous different specialty environmental studies.

Some of these may include wetland surveys and delineations, tree surveys, threatened and endangered species surveys, noise modeling and analysis, Preliminary Environmental Site Assessments (PESAs), land use/socioeconomic studies, Section 4(f) documentation, and environmental justice studies. Additionally, KEG's noise analysts have experience in both collecting noise measurements in the field and the subsequent development of the associated noise models utilizing FHWA-required TNM software. Our wide range of environmental work has been completed in a several different states, including Missouri, for state DOTs and local agencies.

Corporate Office

Kaskaskia Engineering Group, LLC
208 East Main Street
Suite 100
Belleville, Illinois 62220

Authorized Negotiator

Geri E. Boyer, PE
President & Founder
GBoyer@KEG-Design.com
618.233.5877 phone

> 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 Environmental Team has developed NEPA environmental documents for a variety of projects ranging from Programmatic Categorical Exclusions (PCEs) for bridge deck overlay projects to CEAs for small bridge and roadway projects, to EAs/FONSIs for interstate widening projects, to EISs/RODs for projects as diverse as major interstate construction to high-speed rail. Furthermore, we have completed re-evaluation, additional information, and supplemental documents for projects that have changed or sat dormant for several years.

> Past Performance

KEG's team is highly experienced in performing environmental documentation, field evaluations, wetlands work, habitat assessments, and threatened and endangered species analysis. We are also well-versed in noise analysis, reporting, and the providing supporting data for the design associated with noise barriers and walls.

Lewis County Bridge over the Middle Fabius River

Owner: County of Lewis, Missouri

The project consisted of removing the existing structure and constructing a new bridge. KEG environmental personnel performed a Waters of the U.S. survey to determine the presence and location of Waters of the U.S., including potential wetlands, within the proposed bridge location and right-of-way. The survey was conducted in accordance with the 1987 USACE Wetland Delineation Manual and subsequent related guidance, including the 2010 Midwest Regional Manual. A USACE Rock Island District waters of the U.S. Determination Data Form was also completed. KEG prepared a Section 404 Permit Determination report outlining the surveyed Waters of the U.S., site conditions, construction impacts, and performance standards, which was sent to MoDOT, USACE St. Louis District, and MDNR. KEG found that the proposed project would not impact any wetland areas. However, the Middle Fabius River is a waters of the U.S. Therefore, pre-construction notification and a nationwide section 404 permit would be required.



MoDOT Southeast District Overlays

Owner: MoDOT

KEG provided environmental services and Phase II design plans for approximately 34 miles of rural roadway resurfacing in the MoDOT Southeast District. The project included 12 miles of resurfacing on Route V from Route 34 to Route A; 8 miles of resurfacing on Route B, from Route 34 to Route U; and 14 miles of resurfacing on Route Z from Route D to Route P.

KEG's Environmental Team was responsible for preparation of the Request for Environmental Services (RES) form for the resurfacing. Each form was completed and approved per MoDOT standards.



Strother Road Permit

Owner: MoDOT

KEG performed environmental services for the realignment of Strother Road within the Lee's Summit Municipal Airport. An Individual Section 404 Permit (IP) for wetland impacts was required. KEG worked with the City of Lee's Summit and the Kansas City USACE to assess wetland impacts, review wetland delineation reports, and complete the IP application. The IP application was submitted to the USACE Kansas City District and Missouri Department of Natural Resources. The wetland impacts were to be mitigated through the purchase of wetland and stream credits from an approved USACE mitigation bank.

Florence Bridge Environmental Assessment

Owner: IDOT

KEG prepared an EA of the Florence Bridge replacement project to examine a variety of environmental factors, including economic, social, and environmental impacts of potential alternatives.

Four build alternatives and the No Build alternative were evaluated. KEG performed the Environmental Impact Analysis for both natural and man-made resources, authored the main EA document, and compiled and formatted the entire EA with appendices for submittal to IDOT and the resource agencies for review. KEG also assisted with the traffic noise study. The EA Finding of No Significant Impact (FONSI) was signed in 2021.



Emerson Avenue Traffic Noise Analysis

Owner: City of Indianapolis, Indiana

KEG provided noise analysis services in support of a proposed 2.19 mile added travel lanes project along Emerson Avenue in Indianapolis, Indiana. KEG's tasks included preparation of a Noise Technical Report. KEG conducted field monitoring and model validation within the project area. The report concluded 177 noise sensitive receptors were identified in the project area within 13 common noise environments (CNEs). As a result of analysis using TNM 2.5, one CNE approached, or exceeded, the NAC and therefore was considered impacted.

> Qualifications of Personnel

Caroline Levenda, CEP, ENV SP | Environmental Lead



EDUCATION

BS, Michigan Technological University, Geological Engineering
BS, Michigan Technological University, Geology/Earth Science Education,

REGISTRATIONS & CERTIFICATIONS

Certified Environmental Professional (CEP) 20199
Envision Sustainability Professional

Ms. Levenda has over 24 years of experience in planning and environmental consulting for both public and private sectors. She has significant experience in performing National Environmental Protection Agency (NEPA) documentation and providing waterway permitting services for federal and state agencies. She is proficient in special waste assessments; wetland delineations; feasibility studies; development of scopes, schedules, and budgets; archaeological and historical studies; biological assessments; botanical surveys; and land surveys for special use permits. She has managed the completion of site investigations including delineation of subsurface soil and water contamination for Department of Defense (DOD) clients. Ms. Levenda also has experience in watershed monitoring, stream monitoring, and forestry assessments. She is experienced in working within the requirements of DOTs and many local municipalities.

Virginia Flynn, PWS | Wetlands Specialist & Permitting Lead



EDUCATION

BS, University of Illinois Urbana, Horticulture
MS, Southern Illinois University Carbondale, Plant Biology (Ecology)

REGISTRATIONS & CERTIFICATIONS

Professional Wetlands Scientist (2880)

Ms. Flynn has more than 25 years of experience with both government and private organizations in a diverse array of NEPA projects (EA, EIS, and CE), transportation projects, DOD projects, and Water Resource Development Act (WRDA) projects with the US Army Corps of Engineers. Ms. Flynn's expertise includes NEPA compliance, wetland delineations, waterway and stormwater permitting, wetland mitigation monitoring, habitat evaluation and restoration, vegetation sampling, and plant community classification. She is also skilled in natural resource management, developing conservation plans, performing biological assessments, and managing incidental take agreements. Additionally, she has experience in mined land reclamation and revegetation.

Laura Jack | Environmental Support



EDUCATION

BS, Indiana University, Environmental Management

REGISTRATIONS & CERTIFICATIONS

USACE Wetland Delineator Certification

Ms. Jack has over 11 years of experience as an environmental lead working under the National Environmental Policy Act (NEPA) on transportation projects. Her vast range of knowledge includes writing CEs, EAs, reviewing T&E species using USFWS IPaC and IDNR EcoCAT, evaluating Section 4(f) and Section 6(f) impacts, working closely with cultural resources staff through Section 106 process, preparing Environmental Survey Requests (ESRs) and Wetland Impact Evaluations, and assisting in PESAs and Preliminary Site Investigations (PSIs). She has conducted over 100 wetland delineations in accordance with the USACE 1987 Wetland Delineation Manual and applicable Supplements. She has prepared USACE Nationwide, Regional, and Individual 404 permits, Illinois Environmental Protection Agency (IEPA) 401 Water Quality permits, County Stormwater Ordinance permits, MWRD permits, and IDNR Office of Water Quality permits. Ms. Jack has in-depth knowledge of environmental regulations, procedures, and project expectations, allowing her to assess every project's required documentation and permits.

Kent Ahrenholtz, PE | Principal in Charge



EDUCATION

BS, Iowa State University, Civil Engineering
MS, University of Kansas, Engineering Management

REGISTRATIONS & CERTIFICATIONS

Professional Engineer: Missouri (24792)

Mr. Ahrenholtz has over 38 years of transportation and environmental planning experience. He has focused his attention on leading program management efforts on major transportation and planning projects in the Midwest. He has significant experience in managing, writing, and reviewing National Environmental Policy Act (NEPA) documents; evaluating government planning-related documents and reports; client presentations and stakeholder mediation with federal government and military clients; and possesses the ability to translate information and develop insights.

Hannah Papproth, EI | Noise Specialist



EDUCATION

BS, Southern Illinois University Edwardsville, Civil Engineering

REGISTRATIONS & CERTIFICATIONS

Engineer In Training: Illinois (061.041284)

Ms. Papproth has successfully worked on a wide range of projects for both DOT projects and municipal infrastructure improvements. Her areas of expertise include, but are not limited to, development of traffic noise studies, preparation of preliminary engineering documents, roadway design support, and preparation and QA/QC of technical reports and memorandums. She has specific experience performing noise studies and subsequent analyses, along with preparing noise reports, and is proficient in FHWA traffic noise impact assessments and modeling.



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.**

Corporate Office

Kaskaskia Engineering Group, LLC
 208 East Main Street
 Suite 100
 Belleville, Illinois 62220

Authorized Negotiator

Geri E. Boyer, PE
 President & Founder
 GBoyer@KEG-Design.com
 618.233.5877 phone



> 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



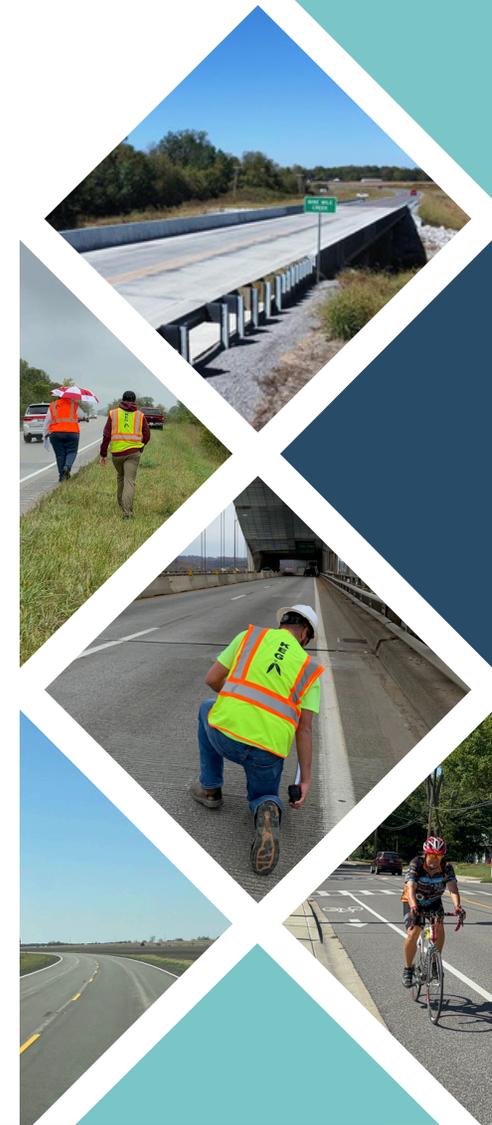
Transportation Planning & Design

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, Realignments, & 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.

