

November 15, 2013

Mr. Kenny Voss  
Local Program Administrator  
Missouri Department of Transportation  
105 West Capitol Avenue  
Jefferson City, Missouri 65102

RE: Letter of Interest - Construction Inspection, LPA

Dear Mr. Voss,

Kuhlmann *design* Group, Inc. (KdG) is interested in providing Construction Inspection services to Missouri's Local Program (LPA) for the Construction Inspection Services Contract. KdG is listed on MoDOT's Approved Consultant Prequalification List.

**GENERAL EXPERIENCE OF FIRM**

KdG believes they are uniquely qualified to provide the professional services required. KdG is in its 39th year of service in the engineering profession. We are experienced design professionals who have a long-term commitment to and relationship with MoDOT and the LPA. KdG staff has experience with managing, documenting, and inspecting construction projects, including resolution of issues relating to materials, work, progress, change orders, and disputes. This also includes attending construction-related meetings and reviewing shop drawings. KdG is committed to the concept, commitments, and rewards of the partnering program. Please see attached references from recent clients on construction inspection projects.

**PAST PERFORMANCE**

***Warson Woods Street Slab Replacement: Warson Woods, Missouri*** - KdG provided construction inspection and administration services for the City of Warson Woods' yearly street slab replacement project. The project helped to repair failing sections of City streets, and the cleaning and sealing of cracks within the existing pavement. The second year of KdG's contract, the project consisted of 1,100 square yards of concrete street pavement repair and sealing along with approximately 2,200 linear feet of pavement crack cleaning and sealing. KdG worked on the City's behalf to facilitate construction start up, monitor contractor work and progress, verify that the completed construction complied with the plan intent, and process pay applications from the contractor to the City.

***Hannah Road Bridge Replacement: Manchester, Missouri*** - KdG was employed by the City of Manchester to provide construction administration and construction inspection services for the complete replacement of the Hanna Road Bridge over a Tributary to Fishpot Creek. The project also included the realignment of the creek for erosion control. The replacement structure is a single span precast concrete I-girder bridge, with a span length of 56'-2" and a total width of 46'-2". KdG's involvement included conducting a pre-construction conference, daily site visits, shop drawing reviews, construction materials inspections, maintenance of a daily progress diary, change order reviews, and participation in the final inspection. The project included federal funding and all inspections were conducted in accordance with the MoDOT Local Public Agency (LPA) manual. At the conclusion of the project, KdG furnished documentation to assist the City of Manchester in obtaining construction cost reimbursement through Federal Aid STP funding. Due in large part to KdG's frequent presence at the site, no significant unforeseen construction problems arose, and the bridge was completed without delays and with only a minimal number of change orders.

**Lafayette Bridge Replacement: Manchester, Missouri** - KdG was employed by the City of Manchester to provide construction administration and construction inspection services for the superstructure replacement and substructure addition for the Lafayette Center Drive Bridge over Grand Glaize Creek. The replacement structure is a 3 span precast concrete deck beam bridge, with a span length of 21 feet and a total width of 46 feet. KdG's involvement included conducting a pre-construction conference, performing periodic site visits, reviewing shop drawings, inspecting construction materials, maintaining a daily progress diary, reviewing change orders, and participating in the final inspection. The project included federal funding and all inspections were conducted in accordance with the MoDOT Local Public Agency (LPA) manual. At the conclusion of the project, KdG furnished documentation to assist the City of Manchester in obtaining construction cost reimbursement through Federal Aid STP funding. Due in large part to KdG's frequent presence at the site, no significant unforeseen construction problems arose and the bridge was completed without delays and with only a minimal number of change orders.

**Old Warson Road Improvements: Ladue, Missouri** - KdG was retained by the City of Ladue to provide design and construction phase services for 1.6 miles of roadway. The existing road was in disrepair due to lack of needed storm water management, and the project budget would not allow for reconstruction of the entire roadway; KdG identified over fifty locations where a full depth repair would be needed. Ditches and curb and gutter were added in selective locations to better control the storm water and help prevent future pavement deterioration.

**Ladue Retaining Walls: Ladue, Missouri** - KdG performed the design of and construction administration services for twenty-one modular block retaining walls through out the City of Ladue including aesthetic and structural improvements along Price Road, Conway Road, and McKnight Road. The modular concrete walls, approximately 4 feet in height, were designed as replacements for deteriorated wood tie walls along the edge of existing sidewalks.

#### **QUALIFICATIONS OF PERSONNEL**

Our Engineering Division is composed of experienced professionals who have worked on previous LPA projects. The staff of KdG can provide successful projects to the Missouri Department of Transportation. A partial team listing is as follows:

##### ***Chad D. Fairbanks, P.E. - Project Manager***

Mr. Fairbanks has over 17 years of experience in the planning, design, and construction services of traffic and transportation related projects. He has provided funding applications, transportation design calculations, quantity calculations, construction specifications, cost estimates, hydraulic calculations, schedules, inspection reports, and construction observation for transportation projects. Mr. Fairbanks' experience ranges from major MoDOT highways and interstates to local streets and sidewalks. He has worked on MoDOT projects in various districts, including work on many signalized intersections and highway projects.

##### ***Martin N. Solomon, PE, PTOE - Traffic Engineer***

Mr. Solomon performs design and planning tasks on a variety of transportation projects. He has 35 years of traffic engineering experience with over 29 years of experience with the St. Louis County Department of Highways and Traffic encompassing traffic studies and operations, signal design, capacity analysis, signal timing, and intersection design. He has conducted intersection traffic control studies, accident analysis, speed, signing, and striping studies. While with St. Louis County he was responsible for the operation of over 500 traffic signals. He developed traffic signal timing plans, phasing, and coordination plans for arterials and closed loop systems. Mr. Solomon has conducted computer simulation, optimization, and capacity analyses. He is proficient with HCS-2000, Synchro, SimTraffic, TSPPD-Draft, and other traffic engineering software. He has provided traffic signal designs for a variety of MoDOT projects. Mr. Solomon is also capable of providing roadway lighting design. Using the LitePro software package he has produced lighting contour maps for both MoDOT and developers in preparation for lighting design plans.

##### ***Anthony J. Girondo III P.E. - Roadway Engineer***

Mr. Girondo has over 12 years of experience in civil engineering design and construction

administration. He has been involved with various types of projects for clients including municipalities and state departments, private developers, and individual homeowners. He has worked on projects from conception through the completion and closeout of construction. Mr. Girondo has competent experience with transportation planning and design projects, commercial and industrial developments, stormwater collection with detention and water quality requirements, sanitary sewer collection and pumping stations, athletic complex layouts and design, potable water distribution and residential subdivision layouts.

***April M. Giesmann, PE - Civil Engineer***

Ms. Giesmann has over 17 years of experience in civil engineering design and planning. She has extensive experience working with municipalities, departments of transportation and other government agencies. She has been involved in the design of storm sewers, detention facilities, sanitary sewers, parking lots and play fields for educational facilities, commercial projects, residential properties, and recreational facilities. She is competent in hydrologic and hydraulic modeling and has performed multiple flood plain studies and designed numerous detention facilities and water quality BMPs.

***Jason A. Sibert - Structural Designer***

Mr. Sibert has over 10 years of experience in the design of KdG's major transportation and structural projects. He also has extensive Construction Administration experience.

**FAMILIARITY/CAPABILITY**

KdG engineers, architects, and technicians are well versed in federal requirements and have performed numerous projects for multiple Local Public Agencies, MoDOT, IDOT, United States Air Force, and other entities that receive federal funding. Within the last 5 years KdG has completed 11 projects either for the Federal Government or containing federal funding. All of the projects were completed following federal laws and guidelines with respect to contracts, design, deliverables, implementation, and record keeping. KdG is qualified and prepared to complete projects within full compliance of applicable federal laws.

**ACCESSIBILITY**

KdG has a strong track record of delivering high-quality projects on-time that are compliant with federal law. We take pride in putting our client's needs first; we feel our large number of repeat clients is a strong testament to our quality of work. KdG currently holds an open-ended contract for roadway and stormwater design projects with the City of Festus; Happy Welch, City Administrator, said "(KdG is) very responsive to City needs and residents". KdG recently performed professional design services for the City of Creve Coeur, prompting City Engineer Matt Wohlberg to say, "KdG proved to be very responsive and easy to work with for (this) project. Their concept analysis was a key element in discussions with the Missouri Department of Transportation regarding the feasibility of this project, and the concept layouts and designs were drafted in a way that were easy to understand. The City of Creve Coeur will certainly include (KdG) on future requests for qualifications for engineering design services".

Thank you for your time and consideration. Should you have any questions or require additional information, please feel free to contact us at any time.

Respectfully,

Kuhlmann *design* Group, Inc.



Chad D. Fairbanks, P.E., LEED AP  
Project Manager

CDF2/ceo

**ORGANIZATION:**

Kuhlmann *design* Group, Inc. (KdG), founded in 1974, is comprised of approximately 60 individuals organized into four divisions. We offer diverse services which can be contracted for jointly or individually based on project needs and client preferences. Each professional discipline is managed autonomously which maximizes and focuses the senior design professionals' abilities directly to the needs of the client.

**PHILOSOPHY OF SERVICE:**

Meeting client needs is the driving force of KdG's existence. It is our responsibility to maintain current and in depth professional knowledge within our field of experience, to communicate with our clients in order to understand their goals, and convey to them a clear understanding of our solutions, providing them with complete data regarding decisions we ask of them.

**SUSTAINABILITY:**

KdG incorporates the responsible use of finite resources in all aspects of the design, construction, and operational performance of our projects. We encourage our clients to adopt realistic goals regarding sustainable practices to utilize our LEED accredited Architects and Engineers on staff to assist in meeting those goals.

**FIRM DIVISIONS:**

- Architecture
- Interiors
- Building Engineering
- Infrastructure Engineering & Surveying

**OFFICE LOCATIONS:**

Main Office  
66 Progress Parkway  
St. Louis, Missouri 63043

Illinois Office  
15 East Washington  
Belleville, Illinois 62220

Firm Profile



Kuhlmann *design* Group, Inc. (KdG) has an experienced staff of over 60 professionals available to render comprehensive professional services. KdG offers the following complete project design services:

**ARCHITECTURE**

Site Analysis & Selection; Master Planning; Needs Assessment; Facility Assessment; Programming; Project Budget Development; Design; Project Management; Construction Document Preparation; Construction Administration; BIM Modeling & 3D/4D Project Coordination; 3D Architecture Illustration & Animation; ADA Compliance Survey; Roofing & Building Envelope Investigations; Theming & Brand Development

**INTERIOR DESIGN**

Interior Programming; Space Analysis & Planning; Brand Conception; Brand Strengthening; Development and Creation of Interior Environments and Decor; Selection and Specification of Finishes and Furnishings; Project Cost Estimating; Budget Analysis; Preparation of Construction Documents; Construction Administration; Procurement Management Services

**STRUCTURAL ENGINEERING**

Structure and Foundation Design; Preliminary Design, Concepts and Feasibility Studies; Earthquake Retrofit; Rehabilitations and Renovations; Noise Abatement Walls; Structural Support of Mechanical and Process Equipment

**ELECTRICAL ENGINEERING**

Power Distribution; Lighting Design; Standby Power Generation; Automatic Transfer and Paralleling Schemes; UPS; Fire Alarm/Security; Audio/MATV; Communications; Roadway/Parking Lot Lighting

**MECHANICAL / PLUMBING / FIRE PROTECTION ENGINEERING**

Heating; Ventilating and Air Conditioning; Boiler and Chiller Replacements; Building Automation/Energy Management Systems; Environmental Control Systems; Energy Audits and ECM Implementations; Life Cycle Cost Analysis; Plumbing Systems; Industrial Ventilation and Exhaust Systems; Fire Protection Systems

**SURVEYING**

Global Positioning Systems Surveying and Mapping; Geographic Information Systems Surveying and Mapping; Boundary/Property; Construction Staking; Hydrographic; ALTA; Topographic

**CIVIL ENGINEERING**

Feasibility Studies for Land Use; ADA Audits & Design; Road & Sidewalk Design; Utility Design & Coordination; Storm and Sanitary Sewer Design; Grant Applications; Flood Studies; Storm Water Quality & Quantity Management; Preliminary & Final Design; Paving & Grading Design; Construction Cost Estimates; Construction Inspection

**TRANSPORTATION ENGINEERING**

Feasibility/Alternative Studies; Preliminary and Final Design; Bridge Engineering; Highway/Road Engineering; Pavement Evaluation and Design; Permanent Slope Protection; Utility Relocations; Traffic Engineering, Traffic Studies, Intersection Studies; Signal Design

Kuhlmann *design* Group, Inc. is in the business of transforming ideas into solutions. Our designs start with you. The responsibility of discerning our clients' needs, goals, and vision requires careful listening and natural inquisitiveness. Transforming your vision to the built environment is the foundation of our philosophy and design process.

We understand the responsibilities entrusted to us. The design, development, and construction of a project represent a tremendous expense of resources both in time and money. It is our goal to optimize these resources.

Discipline is necessary in successfully fulfilling our responsibility. To that end, we have developed the following:

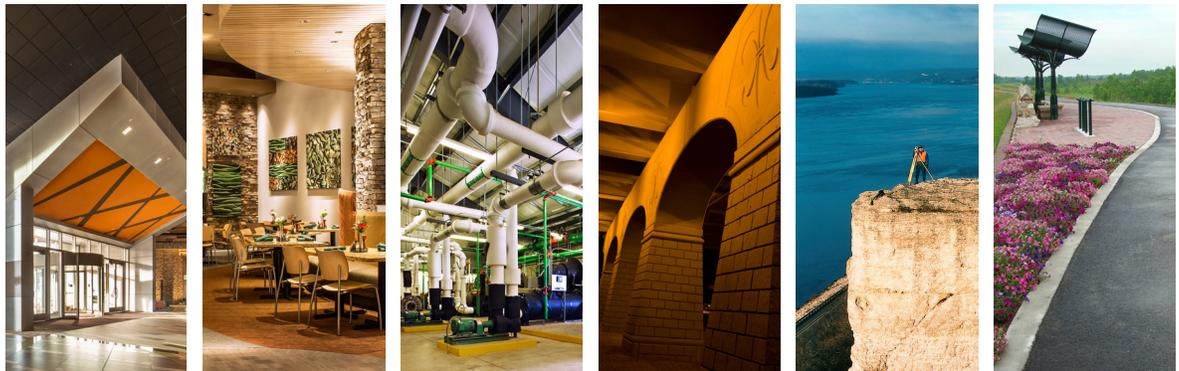
**DESIGN PHILOSOPHY**

Our Creative Process:

- Carefully listen and gather programmatic information from all users.
- Develop an insightful understanding of the project purpose.
- Discuss options with the client.
- Build consensus through a collaborative effort.
- Blend diverse input from client expertise and both design and technical staff.
- Clearly state design objectives and project goals.
- Present concepts and designs with artistry.

Our Design Solutions:

- Meet practical needs with creative solutions.
- Tailor solutions that fit the clients' needs, goals, and personality.
- Enhance the lives of all occupants and the community.
- Respond to local surroundings and respect the environment.
- Express an aesthetic character appropriate to the projects use.
- Solve problems, rather than create new ones.



Kuhlmann *design* Group, Inc. (KdG) uses AutoDesk Revit, Architecture, and Civil 3D for the production of Construction Documents within the Architectural, Structural, Mechanical, Electrical, and Civil/Surveying departments. Civil, Survey, Roadway and Bridge projects are designed in Microstation and GeoPak.

The hardware and software utilized by KdG for construction documents is as follows:

**SERVERS**

- Windows Data Servers (Redundancy within each office)
- Windows 2003 Exchange Server
- Windows 2008 Web Server

**COMPUTER AIDED DRAFTING AND DESIGN**

- CAD Workstations utilizing Windows Operating Systems
- Autodesk Revit 2013 - Architectural, MEP, Structural
- Autodesk NavisWorks Manage 2013
- AutoCAD (Including Architectural 2013 and Civil 3D)
- Microstation V8 and GeoPak

**SPECIFICATIONS/DOCUMENT SOFTWARE**

- BSD Specklink-E Specifications
- AIA Document Software
- Microsoft Office 2003/2007

**GRAPHICS SOFTWARE**

- Adobe Photoshop CS5
- Autodesk 3DS Max Design 2013
- Microsoft PowerPoint Graphics
- V-RAY 2.0
- V-RAY RT
- Adobe Master Collection CS5
- Animation and rendering farm
- 7 dedicated dual chip rendering servers

**PROJECT MANAGEMENT SOFTWARE**

- Microsoft Project Management and Control
- Primavera Sure Trak Project management and control
- Newforma

**EXPERIENCE**

Autodesk Revit Architecture Certified Professional on staff  
Version 2011, 2012, and 2013