

November 15, 2013

MaryAnn Jacobs
Intermediate Planning Technician
MoDOT-Design
105 West Capitol Avenue
Jefferson City, MO 65102**Re: Missouri Local Program (LPA) On-Call Construction Inspection Services**

Selection Committee:

Alfred Benesch & Company is pleased to submit our qualifications for providing statewide on-call inspection services. With more than 65 years of experience in planning, design and construction administration, we understand the challenges associated with construction inspection having successfully provided services for hundreds of construction projects throughout the Midwest, including many in Missouri. Benesch's construction inspection experience permeates all levels of our organization, from our newest employee to our President, who is a 35-year veteran of structural design.

500+
BENESCH PROFESSIONALS**12 STATES**
22 LOCATIONS

Considering upfront construction costs, accelerated schedules, avoidance of change orders and low impact future maintenance; quality construction management leads to better projects. Effective inspectors can compensate for subpar designs, just as ineffective inspectors can undermine the best laid plans. Simply put; inspectors are the linchpin, determining a project's relative success. Appreciation for the role inspectors fill is the driving force behind MoDOT's desire to find effective partners.

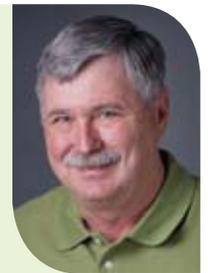
The challenge facing MoDOT and Missouri LPAs is how to distinguish effective inspectors. What constitutes an effective inspector? Based on our recent experience, MoDOT and LPAs are looking for a construction manager not just a construction inspector. Benesch will provide you with effective decision makers, facilitators and self-reliant individuals who will act as an extension of your staff. We understand that you want to be involved and informed, but we can free you up from the day-to-day field operations, coordination and decisions. Benesch is pleased to present an inspection team that has the qualifications, experience, perspective, relationships, and reputation to meet and exceed expectations.

QUALIFICATIONS



Joseph Rishmany, PE

Our inspection team will be led by **Joseph Rishmany (PM/Point of Contact)** and **Ralph Gripka (Lead Construction Representative/Inspector)**. Joe brings over 40 years of experience in design and construction. He has worked with the MoDOT Bridge Division in each District, and for countless LPAs throughout Missouri. Joe has been involved with the MoDOT BRO program since its inception roughly 30 years ago. Ralph has a diverse background in construction administration and inspection of highways and bridges. Ralph has led our team for 10 years. Prior to joining Benesch, Ralph served as a KDOT construction engineer for 34 years.



Ralph Gripka

During Ralph's KDOT career, he led approximately 20 major highway and bridge projects per year in the Kansas counties of Douglas, Wyandotte, Leavenworth, Jefferson and Osage. He supervised a staff of more than 20 inspectors and office personnel. Inspection projects included bridges, grading, pavements, traffic signals, lighting, pavement marking, signing and all aspects of major highway construction. In managing these projects, he developed valuable experience coordinating and cooperating with contractors, state and local agencies, consultants, business owners and residents across the state. At Benesch, Ralph continues to serve as lead inspector for dozens of transportation projects in the Kansas City metropolitan area.

Construction Inspection Team. Joseph Rishmany will serve as Project Manager and be your point of contact for services. Ralph Ripka is our primary inspector and team leader. He will be assisted by Benesch engineers and engineering technicians with required certifications and experience. This pool of individuals includes Justin Davis, PE; Andrew Dailey, PE; Chuck Goodman, PE; Chris Harker, PE; Wade Heim, PE; Clay Hirt, James Petersen, PE; Mike Chase, and Bradley Cramer.

EXPERTISE

Few things prove more valuable than experience. Training, certifications and degrees prepare individuals for situations and demonstrate their potential for success. Unfortunately, even the most impressive qualifications don't guarantee success. Experience teaches us what works, what doesn't, how to address problems and most importantly, how to avoid them. There is no full-proof plan, no perfect design and no way to be prepared for everything that might arise during construction. Having a partner with a successful track record and proven ability to anticipate challenges is the best means of minimizing and avoiding potential pitfalls.

RELATIONSHIPS & REPUTATION

Relationships matter. Projects are completed by people, and people who trust each other are more effective and efficient. The Benesch team has established trusted relationships with most general contractors and many sub-contractors in Missouri and Kansas. In fact, we have construction managers who are on a first-name basis with many owners of the contracting companies likely to bid on MoDOT and LPA projects.

PERSPECTIVE

Benesch understands and appreciates the objectives, concerns, risks and rewards to the consultant and owner. Our ability to see and relate to the task at hand from both an owner's and consultant perspective provides the Benesch team with intangible skills few firms can match. If MoDOT is looking for construction managers capable of taking the reins and leading, who better to trust than a firm that has done just that for public and private clients for over four decades?

The following contains a small sampling of the many inspection projects performed by Benesch.



Little Blue Road Over Little Blue River - Kansas City, Missouri

The existing truss bridge on Little Blue Road over Little Blue River, was found to have serious structural problems and needed replacement. As an interim measure, Kansas City officials decided that the bridge superstructure would have to be removed and a temporary steel bridge was erected on the existing substructure. Benesch developed design plans and provided construction observation. Since the new horizontal alignment was offset from the existing bridge alignment, through traffic was able to use the existing bridge throughout construction of the new structure. The project included 1,700 feet of grading and 11 inches of bituminous surfacing. The bridge was a 205 foot, three-span precast prestressed concrete girder bridge with a 40 foot driving surface. As Benesch promised KCMO, the project was completed on time and on budget, taking about eight months.

K-18 Railroad Inspection

The Kansas Department of Transportation is currently relocating its K-18 Highway, which has necessitated realignment of adjacent UPRR tracks. KDOT selected Benesch to manage project construction. To accommodate the relocation, over two miles of track must be realigned. In addition to the new track, Benesch is the resident project representative for the construction of three bridge structures. Benesch has been responsible for all inspection, field tests and lab testing.



Raytown Road Over Round Grove Creek - Kansas City, Missouri

This project involved the replacement of two bridges; Raytown Road's Westbound and Eastbound Bridges over Round Grove Creek. The project site is located just south of the Truman Sport Complex along the section of Raytown Road connecting Blue Ridge Cut-Off with I-435. Benesch provided design and construction observation for KCMO. A major challenge was KCMO's existing 54" diameter water main that was crossing Raytown Road at the east abutment of the east bridge. After multiple options were investigated, Benesch constructed MSE Walls to reduce the fill depth along with concrete encasement of the pipe. The new west bridge is a 52' tangent, three-span precast prestress bridge on fixed end bents. The proposed east bridge is a 4-span 47'-47'-47'-47' precast prestress design.



South Ridgley Road over Dick's Creek - Platte County, Missouri

Benesch replaced a 75'-0" three-span steel girder bridge with a three-span 119' reinforced concrete I-Girder Bridge along a relocated alignment. Benesch provided design and construction observation services for this project. A new three-span 118-foot long prestressed concrete I-girder structure was constructed. The roadway was realigned to allow the existing structure to remain open to traffic while the proposed structure was constructed.

Same photo as Little Blue River Road

Parallel Parkway Improvements -Unified Government of Wyandotte Co. and Kansas City, Kansas

Parallel Parkway improvements were a step in spearheading redevelopment along this corridor. Improvements include widening, raised medians, new pavement, curb and gutters, storm sewers, lighting, signals, and sidewalks. LPA construction administration and observation included KDOT certified inspectors, on-site soil and concrete testing, and CMS documentation. Our inspection team has maintained communications between the City, contractor, subcontractors, and utility companies. Our primary responsibilities included daily inspection and documentation; daily construction administration and coordination with the City, contractors, and affected property owners; post construction activities associated with evaluation & acceptance of project; concrete and soil testing through a subcontractor.

ACCESSIBILITY & MoDOT INITIATIVES

This project will be managed and led by our Kansas City office. Key team members are based out of the Kansas City Office and are available to coordinate with you in person, through video conferencing, email or phone. **Creativity and innovation result from diversity of thought. To foster innovation and promote MoDOT's diversity initiative, our firm is committed to developing and maintaining a diverse workforce through hiring and retention programs.**

WORKLOAD

Our corporate philosophy is based on not making commitments we cannot fulfill. Our project team is ready and able to commit the necessary time and resources needed to meet or exceed project timelines and requirements to keep the project on schedule and budget. We maintain a current database of all staffing commitments to ensure we do not over-commit. We can provide a detailed breakdown of our individual commitments over the next four years upon request. The Benesch team is prepared to deliver what you need; when you need it.

Respectfully,

Joseph L. Rishmany, PE | Senior Project Manager/Bridge Group Leader

Alfred Benesch & Company

specializes in quality civil and structural engineering services to clients in transportation and infrastructure development.

Benesch

ROADWAY



Hundreds of interstate miles have been designed by Benesch engineers.

Since 1946, Benesch has successfully completed thousands of design and engineering projects throughout the United States. We are ranked among the top 500 consulting engineering firms by Engineering News Record and recently received recognition for the third year in a row as one of the nation's Top 20 "Go-To" bridge design firms by *Roads & Bridges* magazine.

Benesch designs and inspects complex highway interchanges, major river bridges, parking structures and structural systems for high- and low-rise buildings. Benesch has an established track record for using value planning and value engineering effectively on both transportation and building projects. Benesch employs approximately 500 professionals including engineers, construction managers, planners, designers and scientists. Benesch has offices in Colorado, Connecticut, Illinois, Kansas, Massachusetts, Michigan, Missouri, Nebraska, Ohio, Pennsylvania, Tennessee, Wisconsin and Washington D.C.

We routinely work with state Departments of Transportation and their FHWA counterparts to rehabilitate, modify or create new roadways that effectively connect people and places. Our road and highway projects traverse farm lands, urban cities and everything in between.

We provide much more than geometric solutions, however. You can consider Benesch a one-stop shop for all civil infrastructure needs. Within our civil division, we have staff experts in MOT, drainage, traffic engineering, electrical engineering, surveying and geotechnical.

Quality is our top priority. We deliver plans that are quality-checked for constructability, enabling clients to use a low-bid system to their advantage. In addition, we go the extra mile to ensure minimal change orders and field issues during construction.

Our areas of expertise include:

- Highway and Toll Roads
- Interchanges
- Utility Coordination
- Horizontal and Vertical Alignment
- Drainage
- Maintenance of Traffic
- Agency Coordination and Permitting
- Surveying
- Transportation Project Plats
- Specification Development
- Construction Plans and Estimates
- Geotechnical Services

STRUCTURES



From road stream crossings to high-profile arch bridges, the structural team at Benesch has designed thousands of bridge structures ranging from 35 to 2,000 feet.

Our engineers are proficient in the study and design of continuous complex structures, including plate girder, tied arch, segmental box girder, continuous/cantilever truss and cable stay bridges. In addition, we specialize in high order finite element analysis associated with various forms of nonlinear and buckling behavior. We are relentless in the pursuit of industry advancements, and pride ourselves on implementing innovative solutions.

Benesch has been awarded several Eminent Conceptor awards from the American Council of Engineering Companies and has consistently been named a top 20 "Go To" firm for bridge design by government subscribers of Roads and Bridges magazine.

Our areas of expertise include:

- Simple, Typical and Complex Bridges
- Major River Crossings
- Railroad Bridges
- Pedestrian Bridges
- Inspections and Ratings
- Bridge Retrofit and Rehabilitation
- Retaining Walls
- Culverts
- Seismic Analysis
- Bridge Modeling
- Structural Survey
- Value Engineering
- Geotechnical Services

TRAFFIC ENGINEERING



The Benesch team combines traffic engineering expertise with real world experience to develop innovative, practical, sustainable and cost-effective solutions.

Our team is committed to staying at the forefront of the latest traffic engineering technologies. We use advanced tools like Miovision traffic cameras and sophisticated in-house simulation software such as Synchro, SimTraffic, Vissim and HCS. These tools enable us to better understand design implications and meet project needs. Benesch engineers strive to develop practical, sustainable solutions. Tackling traffic issues from the "demand side" to encourage multi-modal and environmentally friendly solutions is just as important as looking at traditional "supply side" solutions that involve physical improvements.

Our areas of expertise include:

- Traffic Impact Studies
- Origin and Destination Studies
- New and Modernized Signal Design
- Highway Operational Analysis
- Travel Demand Modeling
- Safety Studies
- Access Management Studies
- Gap Analysis
- Traffic Signal Coordination and Timing (SCAT)
- Signal Timings
- Intersection Analyses
- Corridor Progression Analysis
- Level of Service Analysis
- Traffic Data Collection
- Maintenance of Traffic Plans

CONSTRUCTION INSPECTION



Benesch brings knowledge of construction and expectations associated with federal aid, and a commitment to excelling that separates us from other consulting engineers.

GENERAL CIVIL AND STRUCTURAL ENGINEERING



Benesch prides itself on providing a wide array of civil engineering services, quality based engineered solutions and client satisfaction.

Our team has completed hundreds of DOT and LPA federal aid construction engineering projects. We have the experience and background to work successfully with the Federal Highway Administration, DOT Construction staff and Local Public Agencies. We are a full-service provider that brings a proven approach, based on efficient operations and utilizing versatile, knowledgeable, experienced staff who understand the work being performed and the construction engineering services required to satisfy project oversight requirements.

Construction rarely goes exactly as planned. We have experts on staff who are able to provide assistance should major changes or unanticipated situations arise. Besides construction, our staff includes designers and scientists ready to provide support. Their proximity and accessibility to our team allows for rapid response and accurate advice. This prevents surprises, helps avoid lengthy delays, and ultimately leads to successful projects.

Our areas of expertise include:

- Construction Observation
- Design-Build
- Shoring Tower Design
- Schedule Management
- Earthwork Quantities
- Temporary Earth Retention Systems
- Cost Management
- Pavement Quantities
- Demolition Plans
- Structural Engineering
- Value Engineering

Our expertise lies in most all areas of civil and structural engineering including geotechnical engineering, environmental assessments, sustainable design and value engineering. Our responsiveness to short term, long term and emergency needs is well known among our clients. In addition, our clients will tell you that attention to detail in our engineering documents sets the standard for quality.

The Benesch team resume includes a variety of civil/structural studies and designs for many clients across the United States. Our experience in municipal engineering provides a solid knowledge base that will be a valuable resource. Additionally, our work with numerous small and large scale commercial developments is particularly important. Many of our projects have involved public involvement and environmental permitting efforts that required specialists within Benesch. Further, managing and improving infrastructure facilities requires knowledge not only of pertinent design standards but also sustainability. Our engineers are well versed in designs that accommodate all types of users including complying with the Americans with Disabilities Act and the pursuit of LEED certified projects.

Benesch has been named one of the nation's Top 20 Go-To Bridge Design Firms by Road and Bridges Magazine for three years in a row. Our nationally recognized expertise in structural design will be at your disposal.

MECHANICAL ELECTRICAL PLUMBING



Benesch offers a full spectrum of MEP services to our clients.

Professionals in our Kansas City office provide design, consulting and sustainable solutions for mechanical, electrical and plumbing systems. Our services include design drawing preparation, specifications, and cost estimates. We bring a strong foundation of industrial and commercial engineering experience, including both new construction and renovation of existing facilities. Over the past twenty years we have completed projects in wastewater treatment plants, hospitals, schools, military facilities, vehicle maintenance buildings, telecommunication facilities, correctional institutions and various commercial buildings.

Mechanical Practice Areas

- Heating, Ventilating, and Air Conditioning Systems
- Exhaust Systems
- Chilled Water Systems
- Heating Water Systems
- Facility Assessment & Energy Audits
- Life Cycle Cost Analysis
- Industrial Ventilations
- Energy Recovery
- Temperature Controls
- Solar Thermal Systems
- Direct Digital Control (DDC) Systems
- Odor Control Systems

Electrical Practice Areas

- Power Distribution
- System Analysis, Assessment and Planning
- Interior and Exterior Lighting Design and Controls
- Energy Code and LEED Compliance
- Fire Alarm Systems
- Paging, Public Address, and Sound Systems
- Uninterruptible Power Supply
- Programmable Logic Controls
- Facility System Controls
- SCADA Systems
- Emergency Power Systems

Plumbing Practice Areas

- Facility Plumbing Systems Design
- Process Systems Piping
- Site Utilities and Yard Piping Systems
- Distribution Systems
- Grey Water Storage Systems
- Low-Flow Fixture Installation
- Water Usage Audits
- Storm Water Systems
- Fuel Piping Systems
- Chemical Piping