



**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)

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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**



# Roadway Design - MoDOT LPA 2026-2029

December 12, 2025  
Ashley Buechter, PE  
Local Program Administrator  
MoDOT – Local Program  
105 West Capitol Avenue  
P.O. Box 270  
Jefferson City, Missouri 65102

**Benesch** is pleased to submit our qualifications to provide on-call Roadway Design services for Missouri LPAs under the 2026 to 2029 program. Our team has a strong record of delivering highway, resurfacing, widening, and corridor improvements for cities and counties across Missouri and the Midwest. We understand LPA and MoDOT expectations for compliant roadway plans, utility coordination, environmental and right-of-way considerations, and federal-aid requirements. Benesch provides responsive design teams, clear communication, and reliable technical support that keep projects moving efficiently. Our engineers take pride in producing practical, buildable designs that strengthen local transportation networks and protect public investment.

## GENERAL EXPERIENCE OF FIRM

Benesch has delivered roadway design services throughout Missouri for more than 60 years, supporting cities, counties and regional partners with improvements ranging from corridor upgrades and resurfacing to pavement reconstruction, utility coordination, sidewalks, trails and intersection design. Our experience reflects the full scope of work described under the Roadway Design category, including traffic signals, lighting, right of way coordination and environmental considerations.

Our team is led by Michele Keal, PE, who brings strong experience delivering roadway projects for local agencies and federally funded programs. She is supported by Jim Jussel, PE, PTOE, providing traffic operations and safety expertise and Michael Heigert, PE, who brings strengths in drainage, stormwater and intersection design. Together, they offer a coordinated and experienced approach tailored to the needs of LPA sponsors.

Benesch has a long history of helping local agencies deliver projects efficiently, cost-effectively and in full alignment with federal requirements. Our work emphasizes proactive coordination, clear communication and early identification of design or permitting challenges to keep projects moving. We routinely support municipalities with roadway, safety, access, ADA and multimodal improvements funded through FHWA programs.

With more than 50 staff in our Kansas City office and over 1,200 professionals across the country, we offer the depth and flexibility needed to meet the varying demands of LPA on-call assignments. Our teams can scale quickly to maintain schedule and budget while producing review-ready plans.

Our firmwide Project Quality Management Plan ensures each project has a clear QA/QC approach with defined review milestones and documented checks. This process, supported by our standardized Bluebeam workflows, produces consistent, accurate and reliable submittals that streamline review for local agencies. We are known for responsiveness and accessibility and we take pride in providing dependable support from concept development through final design.

Benesch understands the responsibilities LPAs carry when delivering federally funded projects and we focus on making that process easier for local sponsors. Our familiarity with federal documentation, LPA expectations and MoDOT review procedures allows us to guide communities through each step with clarity and confidence. We pair this capability with a strong local presence, accessible senior staff and a commitment to timely communication. Our team works as an extension of each agency, helping them deliver roadway improvements that strengthen safety, mobility and quality of life across Missouri.

## FAMILIARITY/CAPABILITY

Benesch has extensive experience helping Missouri’s local agencies deliver federally funded roadway projects, giving our team a strong understanding of LPA design, documentation, and coordination requirements. We regularly support cities and counties with environmental documentation, right-of-way needs, utility coordination, and stakeholder communication to keep projects compliant and on schedule. Michele’s recent work on intersection and corridor improvements for local sponsors demonstrates our ability to guide LPAs through each step of project development while meeting state and federal expectations

## ACCESSIBILITY

The Benesch roadway team is highly responsive and experienced in meeting accelerated schedules. We maintain open communication with MoDOT staff, address challenges proactively, and keep projects moving to ensure dependable service for LPAs.

## PAST PERFORMANCE

Benesch consistently receives strong performance evaluations from local agencies and MoDOT districts, reflecting our commitment to responsiveness, clear communication and dependable delivery. Clients regularly highlight our ability to meet commitments, address issues quickly and keep project stakeholders well informed throughout design. **Below are several recent projects that demonstrate our roadway design expertise and the level of service LPAs can expect from our team.**



**BUSINESS 49B, MISSOURI DOT:** Business 49B is the commercial corridor in Joplin, Missouri known as Range Line Road. In addition to replacing the bridge over the Kansas City Southern Railroad, sidewalks were constructed to provide connectivity. Driveway improvements were constructed to provide ADA compliant facilities. Early public engagement meetings were held to inform the stakeholders of the improvements needed and allow for an opportunity to receive feedback regarding bridge closure and potential impacts. The Value Planning process was utilized to develop alternate construction methods to deliver the project that provides the best value while providing the contractor with incentives to complete as quickly as possible to mitigate stakeholder concerns with the bridge closure.



**MULTIPLE PROJECTS - BRIDGE APPROACH DESIGNS, MISSOURI DOT:** Benesch routinely coordinates with the bridge team to provide roadway approaches for bridge replacement projects in many of the districts. Most recently this work includes the SW, NW, KC and SE Districts. Additionally, sub-standard clear zone and intersection sight distance concerns are addressed with the improvements. Temporary bypass designs have been included for routes with higher traffic volumes and excessive detour lengths.



**ROUTE 6/ROUTE 146/30TH AVENUE, MISSOURI DOT:** Under an MOU contract with the NW district, Benesch developed plans for geometric and safety improvements to two intersections along Route 6. At both Route 146 and at 30th Avenue, left turn lanes were designed at both the eastbound and westbound approaches. The project included drainage pipe extensions, upgrading guardrail and providing phased traffic control plans.



**FRONT STREET IMPROVEMENTS, CITY OF KANSAS CITY, MO:** Front Street will be rehabilitated to replace pavement, add curb and gutter and an enclosed drainage system. The corridor will have a trail along the north side and sidewalks along the south side. While improving access control, the median will be constructed to accommodate the heavy truck traffic accessing the loading docks. Additionally, because of the corridor's proximity to the river and the existing pump station's inability to accept more stormwater runoff, a detention basin has been designed under the trail to delay water from entering the system. Geometric improvements will be made at the intersections to improve traffic flow and operations. New LED lighting will be installed to provide improved safety. While all of these combined improvements exceed typical budget constraints for On-Call contracts, but the type of improvements, individually, are in-line with those MoDOT seeks to implement. Front Street was completed and will be bid through MoDOT's LPA program guidelines.



**135TH STREET & PFLUMM ROAD INTERSECTION, CITY OF OLATHE, KS:** Benesch was selected to prepare construction plans for the 135th Street and Pflumm Road intersection located along the Olathe and Overland Park city boundary. The project improved intersection capacity and safety by adding dual left-turn and right-turn lanes on all approaches and designing a new traffic signal system. The revised signal layout relocated poles from the median to the outside of the intersection, with design completed in accordance with both cities' standards. Extensive utility coordination was required due to numerous private utilities in the area. The traffic signal interconnect was relocated to the east side of Pflumm Road to connect with 133rd Street, while plans also accounted for relocation of a weather station and the integration of current and future bike lanes.

## QUALIFICATIONS OF PERSONNEL

Our roadway design team is built to support Missouri's Local Program. Each engineer and technical specialist brings strong experience in highway, resurfacing, widening and reconstruction projects that meet state and federal requirements. Our staff have the capacity and LPA familiarity needed to deliver complete, compliant roadway plans efficiently and with the attention to detail these projects require.



28yrs

**MICHELE KEAL, PE | PROJECT MANAGER:** Michele is an experienced roadway design project manager who has delivered corridor, rehabilitation and safety improvement projects for cities and counties across Missouri and Kansas. Her work includes roadway reconstruction, resurfacing and widening, utility coordination, intersection improvements and integrating pedestrian and trail elements within roadway projects. She has led multidisciplinary teams on federally funded LPA projects, ensuring designs meet local standards and comply with State and Federal requirements.

☆ **Benefit:** Michele provides practical, cost-effective roadway solutions and leads projects with strong communication, efficient coordination and a clear focus on meeting LPA expectations for scope, schedule and compliance.



30yrs

**JIM JUSSSEL, PE, PTOE | TRAFFIC ENGINEER:** Jim supports roadway projects for cities, counties and agencies across Missouri and Kansas. His work includes traffic impact and safety studies, signal design, roundabout analysis and intersection and corridor improvements that integrate with roadway reconstruction and rehabilitation efforts. He also prepares signing, pavement marking and traffic control plans that support complete roadway design packages.

☆ **Benefit:** Jim strengthens the roadway team's ability to deliver safe, efficient intersection and corridor solutions that meet LPA expectations and state and federal requirements.



21yrs

**JAMES PETERSEN, PE | PROJECT ENGINEER:** James is a roadway designer who supports city, county and state-funded projects across Missouri and Kansas. Skilled in OpenRoads 3D modeling, he develops designs for roundabouts, intersections, bridge approaches and urban and rural corridor improvements. His strong command of digital design tools supports accurate alignment, drainage, grading and cost estimating for roadway reconstruction and resurfacing projects.

☆ **Benefit:** James applies his technical expertise to produce precise, cost-effective and buildable roadway plans. His 3D modeling skills help identify conflicts early, supporting efficient coordination and timely LPA project delivery.



15yrs

**MICHAEL HEGIART, PE | PROJECT ENGINEER:** Michael brings a broad mix of roadway, drainage and structural experience that supports the full range of LPA roadway improvements. He has designed reinforced concrete box replacements, stormwater systems, intersection upgrades, rural and urban corridor improvements and sidewalk and trail elements within roadway projects. His technical skills and field awareness help him anticipate constructability needs early.

☆ **Benefit:** Michael resolves drainage, utility and staging considerations during design, producing clear, buildable plans that support smooth LPA project delivery.



6yrs

**MATTHEW ROCKWELL, PE, PROJECT ENGINEER:** Matthew provides roadway and geometric design services for city, county and state-funded projects, with a focus on safety, multimodal connectivity and context-appropriate roadway alignments. His experience includes rural and urban corridor improvements, intersection upgrades, roadway widening, culvert replacements and integrating trail connections within roadway projects. He applies performance-based design strategies and supports both design and construction phases to ensure plans translate smoothly into the field.

☆ **Benefit:** Matthew's geometric design expertise and practical field awareness help local agencies develop efficient alignments and constructible solutions early, supporting safer corridors and dependable LPA project delivery.



2yrs

**CATHRYN SCHNEIDER, EIT, DESIGNER:** Cathryn supports the roadway team with proficient use of OpenRoads Designer and a strong understanding of MoDOT design practices. She assists with geometric design, plan development, and quantity estimation, producing accurate deliverables that align with MoDOT standards. Cathryn has been a key contributor on recent roadway projects in the Northwest, Southeast, and Kansas City Districts, helping advance designs efficiently and collaboratively.

☆ **Benefit:** Cathryn's strong work ethic and ORD proficiency enhance coordination and support smooth, timely project delivery.

**Thank you!** Thank you for your consideration. We appreciate the opportunity to support Missouri's Local Program and understand the responsibility that comes with delivering compliant, buildable roadway designs. Our team is ready to meet project needs efficiently and collaboratively. Please contact us with any questions.

**Robert R. Krewson, PE**  
Sr. Vice President

**Michele Keal, PE**  
Project Manager



## WORKFORCE DIVERSITY

Benesch continues our commitment to identify ways to increase inclusivity and opportunity through hiring and retention programs. At Benesch we believe that promoting inclusion within our staff isn't just the smart thing to do from a business perspective—it's the right thing to do. Every person should enjoy the opportunity to come to work, add value and feel valued for their contributions.

Benesch has taken intentional steps to attract diverse candidates and create inclusive environments so employees can become embedded in the organization.

### Some of those include:

- Intentional recruitment and organizational support.
- Meaningful leadership and employee training.
- Employee Resource Groups
  - Benesch Pride, for LGBTQ+ identified employees and allies
  - Benesch Cultural Alliance, for minority/culturally diverse employees
  - Benesch Strong Divers-ability, for employees impacted by disabilities
  - Women of Benesch, which connects women across the company

## ROADWAY

Hundreds of highway and minor roadway miles have been designed by Benesch engineers. We routinely work with state DOTs and their FHWA counterparts to rehabilitate, modify or create new roadways and bridges that effectively connect people and places. Our transportation 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 team, we have staff experts in areas such as 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/Permitting
- Surveying
- Roundabout Design
- Traffic Signals
- Sidewalk/Trails
- Lighting Design

## GRANT ASSISTANCE

For decades, our team of experts has successfully completed grant applications for a wide variety of projects with values totaling in the millions. Our expertise has helped clients stretch their budgets with creative funding strategies that combine and maximize potential available dollars. We bring you an experienced team well-versed in all facets of grant applications and ready to assist with your next project.

## VALUE ENGINEERING

Value Engineering (VE) is one of Benesch's core services, and we have a rich history of project success in this area. Benesch began practicing VE in 1979. In 1989, we were the first consulting engineering firm to receive the SAVE International Excellence in Value Engineering Award, which recognized ten years of outstanding contributions to the practice of VE.

Over the last 30 years, Benesch has been able to positively impact our clients' projects by saving millions of dollars, sharpening project schedules and developing innovative ways to manage life-cycle costs, all through the application of VE principles.



## 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:**

- ITS Management and Design
- Electrical Engineering
- Noise Studies
- Traffic Impact Studies
- Origin and Destination Studies
- New and Modernized Signal Design
- Highway Operational Analysis
- Travel Demand Modeling
- Safety Studies
- Structures
- 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

## GENERAL CIVIL & STRUCTURAL ENGINEERING SERVICES

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

## STRUCTURAL

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. **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

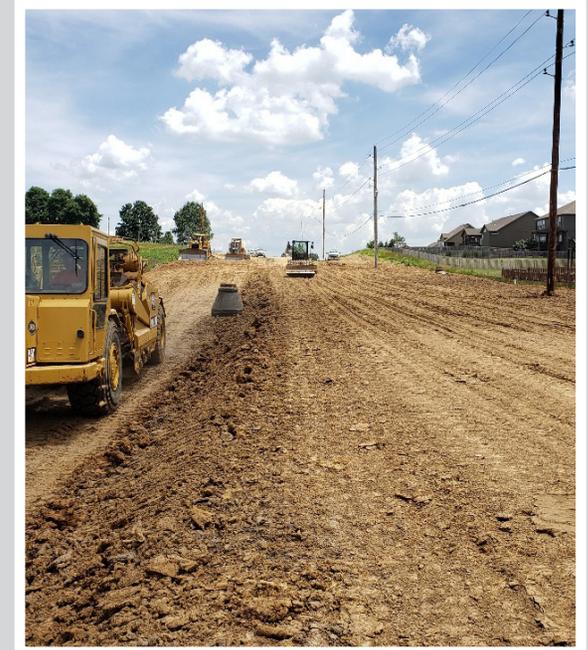
## CONSTRUCTION MANAGEMENT

Benesch provides construction services for roadway, bridge, aviation, railroad and building projects. Our construction staff has years of experience overseeing contractors, coordinating subconsultants, testing materials and executing complex staging plans. We continuously monitor all phases of a project's development, from data collection and field surveys through contract documents and construction observation.

Through hundreds of DOT and LPA federal aid projects, we have the experience and background to work successfully with the FHWA, MoDOT 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.

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 allows for rapid response and accurate advice. This ultimately leads to successful projects, prevents surprises, and helps avoid lengthy delays. **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



## 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 the 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 and 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

### 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 and Emergency Power Systems
- Paging, Public Address, and Sound Systems
- Uninterruptible Power Supply
- Programmable Logic Controls
- Facility System Controls and SCADA Systems

### Plumbing Practice Areas:

- Facility Plumbing Systems Design
- Process Systems Piping
- Site Utilities and Yard Piping Systems
- Distribution Systems
- Storm Water Systems



## STORMWATER MANAGEMENT

We develop stormwater solutions that provide value while respecting the environment. Our engineers and professional staff provide clients with a host of services including stormwater design and modeling; comprehensive planning and management services; and Low Impact Development (LID) expertise. Whether on a watershed-wide or site-specific project, Benesch has the unique ability to balance function, cost and aesthetics while ensuring compliance to all local and regulatory requirements.

Using advanced software and analytical tools, our staff combines technology with expert engineering knowledge to ensure our designs offer value-based solutions to meet our client's project needs. Whether that be for building sites or roadways and infrastructure, Benesch's team of planners, hydrologists and civil and hydraulic engineers are prepared to assist with your flooding, water quality, regulatory issues or any other stormwater need. **Our areas of expertise include:**

- AAL / BRE Analysis
- Alternatives Analysis
- CIP Development
- Closed System Modeling
- Dams
- Environmental Permitting
- FEMA Mapping
- H&H Modeling
- Levees
- Master Planning
- MS4 Water Quality
- Stormwater Management
- Stormwater Design

## GEOTECHNICAL

Our geotechnical engineers, geologists, and scientists specialize in identifying solutions that mitigate construction challenges and make good business sense. Our goal is to balance initial construction capital costs and the ongoing operating costs over the life of the proposed structure or transportation system. Benesch's proactive approach to construction material design can reduce or eliminate unforeseen construction delays and overall construction costs. We promote optimum service life for the structure or transportation system once it is in operation. Benesch has the capability to service any project location.

Our materials testing laboratory is certified by the American Association of State Highway and Transportation Officials (AASHTO). Our technicians are experienced in the laboratory test procedures necessary to evaluate the pertinent engineering properties of foundation materials for design and certified in concrete, asphalt, aggregate and soils testing by NICET, ACI and several state DOTs for materials testing during construction.

## ENVIRONMENTAL

At Benesch, we bring substantial local, regional and national environmental consulting experience and strategic insights to our clients. Our environmental specialists provide due diligence services; Brownfields and property development assessment; hazardous building materials consulting to include asbestos, lead based paint, IAQ; regulatory compliance; and permitting.

As complex environmental issues can have major impacts on project budgets and schedules, Benesch develops innovative and cost-effective solutions to environmental risk management challenges. We assist our clients by finding solutions that offer a balance between environmental stewardship and results-based business practices.

**Our areas of expertise include:**

- Compliance and Due Diligence
- Investigations and Remediations
- NEPA Services
- Natural Resources
- Facilities
- Brownfields / Hazardous Materials
- Noise Analysis
- Public Involvement
- Threatened and Endangered Species
- Wetlands