



**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:

Crawford, Murphy & Tilly, Inc.

Firm Contact Name:

R. JAY RAKERS, PE

Contact Email
Address:

rjrakers@cmtengr.com

Firm's Mailing Address:

Gateway Tower, One Memorial Drive, Suite 500

St. Louis, Missouri 63102

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**



Infrastructure Professionals

About CMT

Established

1946

Number of Offices

25

Firm Size

500+ employees | 138 in Missouri

Number of Professional Engineers

190

Prequalifications

CMT has the prequalification requirements and is currently prequalified as follows:

LPA/Federal Aid Basic Training

November 1, 2027

MoDOT E-Verify

November 26, 2026

Financial Prequalification

August 28, 2026

Missouri Offices

Crawford, Murphy & Tilly, Inc.

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December 12, 2025

Ms. Ashley Buechter, PE, Local Program Administrator

Missouri Department of Transportation

105 W. Capitol Avenue Jefferson City, Missouri 65102

RE: Letter of Interest - LPA On-Call Solicitations / Roadway Design

Dear Ms. Buechter:

Crawford, Murphy & Tilly, Inc. (CMT) is proud of our 40+ year Missouri Local Public Agency (LPA) project portfolio and considers it an integral part of our business – to be able to work and deliver for Missouri’s local and public agencies. Our team has been able to work on a variety of extraordinary projects over the years. CMT wants to continue our trusted relationship with your MoDOT LPA Team and Missouri’s municipalities and public partners and are naturally drawn to being a part of Missouri’s Local Program who can provide on-call Roadway Design services. Our reputation for providing quality deliverables on roadway design projects while incorporating innovation and cost efficiencies has assisted the LPA’s ability to improve their infrastructure. We are proud to have been a part of it in the past and are very interested in continuing to be a part of Missouri’s LPA team of consultants to provide professional engineering for Roadway Design.

General Experience of Firm

CMT has been in the transportation field since our incorporation in 1946. We have continually served federal, state and local governments during that time span providing transportation engineering services including roadway design. Since 1983, when CMT opened an office in Missouri, we have provided engineering services to numerous municipal clients throughout the state. CMT has expanded our presence in Missouri to four regional offices (St. Louis, St. Charles, Springfield and Kansas City) to better serve our clients. Our transportation staff now exceeds over 70 Missouri professionals. Some of our key LPA projects are more fully described in the Past Performance section of this document.

Past Performance

The following projects are indicative of CMT’s commitment to providing outstanding engineering services related to Roadway Design.

Kirkwood Road Traffic Signals (LPA - Federally Funded). CMT completed the design of the upgrade of 11 signalized intersections along 2.3 miles of Kirkwood Road through the historic downtown Kirkwood. The project included a new fiber optic interconnect for these upgraded signals that connected to the City’s network for remote control of the Kirkwood Road corridor. Aesthetic enhancements to the signals support the unique characteristic of downtown Kirkwood. New traffic counts throughout the corridor allowed for optimized signal timings for peak hours, off-peak hours and special events. Sidewalk and ADA enhancements through the corridor included work at two railroad crossings.

I-70 and Route MM Interchange (LPA-Cost Share). CMT worked with the City of Warrenton to navigate the state and federal process to design a new interchange. CMT initially completed a conceptual design and AJR for the interchange, which was designed in a location to support economic development and provide traffic and safety benefits from the congested interchange I-70 and Route 47. The innovative design utilizes three roundabouts to minimize cost and right-of-way. The interchange also includes significant aesthetic enhancements, and CMT worked closely with the City to keep the project on schedule and within budget.

Lay Road Sidewalk and Road Improvements (LPA - Federally Funded). The City of Ladue selected CMT to provide design services for the addition of sidewalks on Lay Road from McKnight to Clayton Road, a distance of 3400 feet. Roadway improvements and construction phase services, were part of this LPA project.

MoDOT SW District - New I-44 & Route CC Interchange (LPA-Cost Share). The constraints on Marshfield's transportation network heightened the need for a long-term solution and an additional access point with I-44. In 2017, the city selected CMT for the planning and design of a new interchange that will facilitate the city's long-term goals for the area. Project elements included roundabout interchange design; FHWA Approval of AJR and CE-2 for new interchange; aesthetic enhancements; utility coordination; public engagement; preliminary, right-of-way and final construction plans; and construction engineering/inspection services.

Wentzville Parkway Turn Lane – Phases 1 and 2A (LPA - Federally Funded). The City of Wentzville selected CMT to provide design services for roadway widening, sidewalks, trails, drainage and signal design for two stretches of the City's main and highly traveled arterial, totaling over 3 miles of roadway. The reconstructed five-lane section included development coordination, construction phase services, right-of-way documents, and utility coordination.

Fifth Street Gateway Streetscape (LPA - Federally Funded). CMT provided roadway design to the City of St. Charles for streetscape enhancements to create a new gateway into the City of St. Charles historic district. A road diet, drainage, widened sidewalks, roadside enhancements, access management, public involvement, decorative retaining walls, right-of-way and undergrounding power poles were part of this iconic \$8 Million LPA project.

Hawk Ridge and Route N Intersection (LPA - Federally Funded). CMT was selected by the City of O'Fallon, MO to provide design services on this cost share project which includes CMAQ funding. The project includes the reconstruction of the intersection including turn lane additions, signal modifications and sidewalks.

Republic Road Reconstruction & Widening (Phases 1-4) - Kansas Ave. to Fremont Ave (LPA-Cost Share). This project was the largest capital improvement project in Springfield's history. Republic Road is classified as a primary arterial and considered a major commercial / retail E-W corridor that is vital to future growth and economic development for the southern half of Springfield and Greene County. Overall, the project was designed and implemented in four phases.

Route 14 Roadway & Intersection Improvements (US HWY 65 - Finley River Bridge) (MoDOT - Cost Share). In 2016 MoDOT Southwest District retained CMT to design the widening and reconstruction of Route 14 from US 65 to the Finley River Bridge, including the intersection of Route 14 and State Hwy NN in the City of Ozark, MO. The project is a cost share project between the City of Ozark, MO and MoDOT that will serve as the gateway into the City of Ozark. The project improvements include roadway widening and overlay, enclosed drainage system, intersection design,

mechanically stabilized earth retaining wall, box culvert extension, and sidewalk.

I-70 and David Hoekel Parkway Interchange (LPA-Cost Share). CMT led the design of a new tight diamond interchange with I-70 and the new David Hoekel Parkway. CMT's design, including the innovative interchange type and alignment changes, reduced the cost of the interchange by \$5.9 million, a 20% savings over the concept originally considered. CMT completed a successful cost share application with MoDOT to help the city secure the remaining funding to complete the project.

Qualifications of Personnel

R. Jay Rakers, PE | Jay is Group Manager of the 40-person Surface Transportation Team in St. Louis and offers over 29 years' experience on roadway projects. With CMT for 26 years, Jay utilizes his vast MoDOT LPA experience, helping his team create successful deliverables from concept to final construction plans. Jay has managed local, state, and cost-share projects including the Jefferson Avenue Streetscape, the 20th Street Cycle Track and Mobility Project, the Fifth Street Gateway Streetscape, the Wentzville Turn Lane Projects, and Jefferson County's three-mile Lion's Den Road corridor. Jay's greatest asset is his conscientiousness in making a client's job easier.

Andy Mueller, PE | Andy is Group Manager of the 30-person Surface Transportation Team in Springfield and brings over 35 years of roadway, construction administration and transportation project management experience, including 28 years with MoDOT. Finishing his MoDOT Career as Assistant District Engineer in the Southwest District, Andy led the district's program delivery team through transformational changes, including the Smooth Roads Initiative, Practical Design implementation, and the first Diverging Diamond Interchange in the USA.

Jerry Bollinger, PE, PTOE, RSP 1 | Jerry is the Group Manager of the Kansas City Surface Transportation Team. He has 13 years' experience in roadway design and traffic analysis projects, including 12 interchange projects across the Midwest. Jerry specializes in road safety, becoming CMT's first licensed Road Safety Professional (RSP). He has experience in intersection/interchange analysis and design, traffic and safety studies, roundabouts, traffic signals, traffic control, and ADA design.

Brian Eads, PE, PTOE | Brian has 27 years of experience working on roadway design and traffic analysis projects for various Missouri municipalities. His experience includes completing detailed traffic studies and implementing these studies into constructible roadway plans.

John Keeven, PE | John has over 20 years of experience on transportation projects and has served as a Project Manager on a variety of LPA roadway projects. Specific design experience includes location studies, horizontal and vertical design, highway lighting, traffic signals, ADA compliant sidewalks and curb ramps, traffic control plans, cost estimating, and construction specifications.

Brad Spanberger, PE | Brad has 10 years' experience on roadway design projects and has been the engineering lead on the West Florissant Great Streets Project, the Jefferson/Parnell Streetscape, the 20th Street Cycle Track, and the Warrenton I-70/Route MM Interchange. He serves as a project manager with experience in operations and safety analyses, stakeholder coordination, ADA compliance and signal improvements, horizontal/vertical corridor design, open and closed drainage, utility coordination, NEPA clearances, and advanced OpenRoads Designer.

Jenny McEachern, PE | Jenny is a highly skilled project engineer and manager with a strong track record on local and state level projects throughout Missouri. She excels in roadway, roadside, ADA, and drainage design, leveraging advanced expertise in ORD to deliver integrated, high-quality solutions. She has worked on numerous LPA projects and is a highly valued and versatile engineer.

Reem Naser, PE | Reem is a transportation engineer with expertise in local roadway, highway and interchange design. She has contributed and led the design effort on a variety of roadway corridor projects including US Route 54 Offset Lefts Project for the Central District, Route D improvements in St. Francois County, and various roadway projects in the Missouri region.

Cassie Lee, PE, PTOE | Cassie is a versatile transportation engineer who has led a broad range of corridor improvement projects, totaling over 25 miles of improved accessibility, operations, and safety for all road users. She has extensive knowledge and experience when it comes to ADA design and excels at developing creative solutions for roadside design challenges. She excels at combining her roadway design and traffic safety knowledge to develop effective and practical solutions for clients.

Dallas Joplin, PE, PTOE | Dallas has over 19 years' experience with a variety of different roadway projects. He has been a design engineer for projects at both the state and local level. As a registered engineer and professional traffic operations engineer, Dallas has the skills to evaluate challenging concepts to find the best possible solutions to fit the needs of our clients.

Ryan Stehn, PE | Ryan has over 11 years' experience and has served as project manager and lead engineer for projects at the local and state level. He has been responsible for the design for numerous complex roadway projects. He specializes in roadway geometrics and successfully applies the latest corridor modeling to small and large projects.

Carrie Dilley, PE | Carrie has over 16 years' experience in roadway design. She works on high-profile design projects for MoDOT and has extensive ORD roadway design software experience.

Ron Leible, P.E. | Ron has over 39 years of experience with utility coordination across the State of Missouri. He oversees all utility-related work and coordination for CMT throughout the Midwest.

Familiarity/Capability

CMT has a long history of meeting our clients' goals on projects, whether this is through meeting aggressive schedules, using the latest technologies and software on a project or the application of cost-efficiency measures to help save construction dollars. CMT has an excellent relationship with a variety of clients and our extensive experience with their staff gives us the familiarity to be efficient throughout the design process. Through our projects, CMT has become intimately familiar with the processes and requirements on projects with federal funding. The following table of projects shows projects that included federal funding on LPA projects and cost share projects. All these projects were completed with minimal review comments:

- 20th Street Cycle Track & Mobility (St. Louis City)
- Kirkwood Road Traffic Signals (Kirkwood)
- I-44 and Route CC Interchange (Marshfield)
- I-70 and Route MM Interchange (Warrenton)
- Nipher Middle School SRTS (Kirkwood)
- I-70/David Hoekel Parkway Interchange (Wentzville)
- Lions Den Road Corridor (Jefferson County)
- Des Peres Roundabout (Des Peres)
- Fifth Street Gateway Streetscape (St. Charles)
- Hawk Ridge/Rte N Intersection (O'Fallon)
- Sullivan Elmont/W Springfield Signals (Sullivan)
- Lay Road Sidewalk and Road (Ladue)

Accessibility/Responsiveness

Assigned personnel for roadway design are based out of our four Missouri offices. This group is highly focused on the successful delivery of services within allotted schedules. Our Missouri roadway team is known for listening to our client, developing innovative solutions, meeting scheduled milestone dates, and staying within budget. They are well versed and educated on the latest ORD software. In addition, our team relies on responsiveness to our clients' requests, with a goal of responding to all requests within 24 hours. With roadway team members located in four offices across Missouri and living and working near five district offices, we can provide roadway design to a large portion of Missouri LPA's with minimal travel time and cost. Over 90% of our team works inside a CMT office to optimize communication and efficient collaboration. When necessary, they effectively use Microsoft Teams for meetings and are equipped with laptops, cell phones, and I-pads to conduct business, with the backing of a strong IT department who keeps our ORD software, technology, and computers running smoothly.

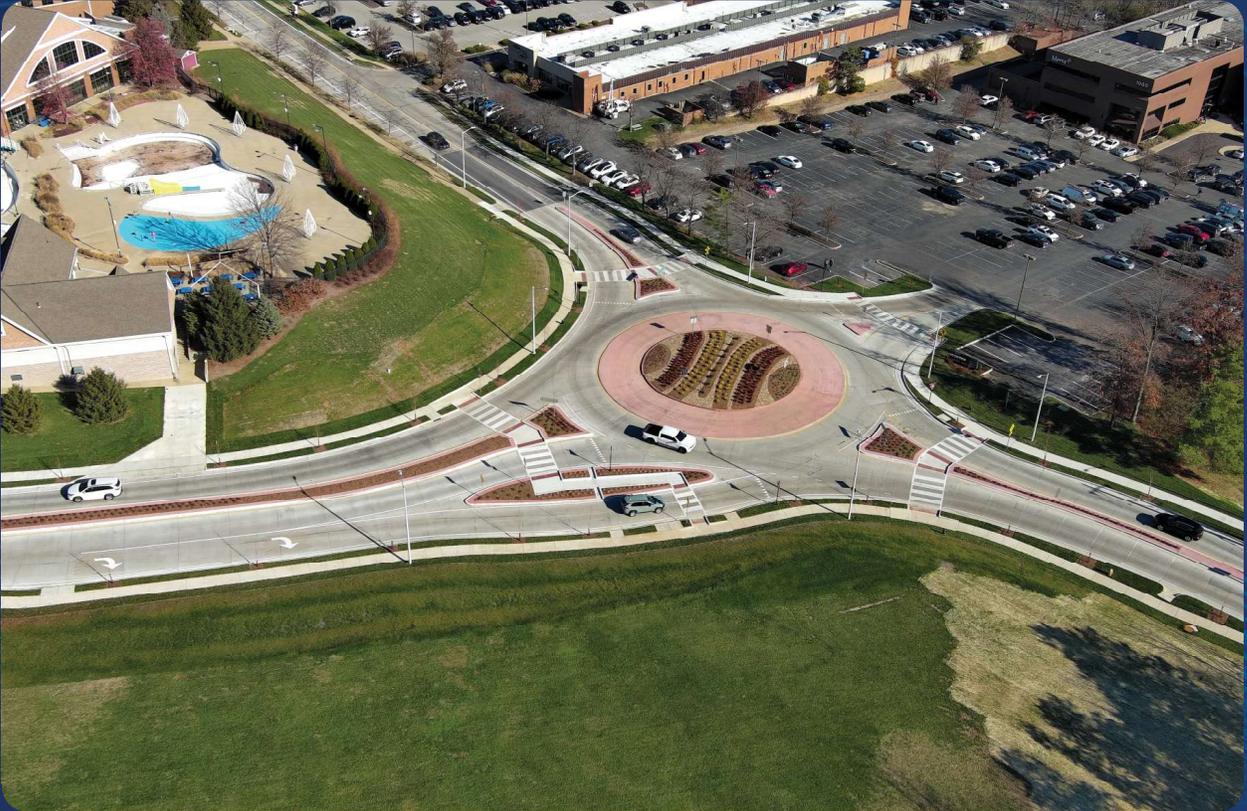
We wish to thank the selection committee in advance for their time and effort in reviewing and evaluating our Letter of Interest and look forward to your favorable consideration.

Respectfully yours,



R. JAY RAKERS, PE
Principal / Group Manager
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Elevating Infrastructure, *together*



Crawford, Murphy & Tilly, Inc. Company Brochure

Local Public Agency On-Call Services
(for Missouri's Local Program)

December 12, 2025



Infrastructure Professionals



Elevating infrastructure, *together.*

About CMT

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1946

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Firm Size

500+ employees

Number of Professional Engineers

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Missouri Offices

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Firm Overview

Since 1946, our dedicated team of engineers, planners, scientists, and other professionals has partnered with clients to elevate infrastructure through a shared commitment to innovation and excellence. From planning and engineering to asset management, we guide every step to provide maximum value in every project.

But the real impact is on people. By working together, we create infrastructure that enhances communities and empowers our employees to thrive. We don't just build infrastructure – we elevate it, making our communities more livable, sustainable, and connected for a better future.

CMT's core service areas include surface transportation, aviation, water resources, and site and building development. Our multidisciplinary teams offer services such as civil engineering, planning, environmental consulting, traffic analysis, utility coordination, permitting, and floodplain studies. We integrate technical excellence with regulatory insight so projects meet both performance goals and compliance requirements.



**Senior Vice President
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**Vice President,
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Major Areas of Expertise

From complex highway interchanges in urban settings and major bridge river crossings to municipal services and tailored streetscape designs, CMT can take a transportation project from its earliest development stages through planning, design and construction. Whether we are working with a large transportation agency or a local community, CMT is responsive to our clients' needs. While meeting client-driven goals of providing safe and efficient transportation, we also seek out community input and account for environmental considerations. All of this helps us to provide context-sensitive solutions that supports project success on every level.

Roadway Design

- Traffic Calming
- Roadway Geometrics
- Project Development Reports
- Drainage & Stormwater Management
- Intersection Design Studies
- Interchange Type & Design Studies
- Pavement Evaluation and Design
- Life Cycle & Cost/Benefit Analysis
- Roundabout Design
- Roadway Lighting/Signing
- Complete Streets
- Sidewalks/Multi-Use Paths/Trails

Bridge and Structural Design & Inspection

- Pedestrian Bridges
- Prestressed I-Beam Bridges
- Precast, Prestressed Concrete Deck Beam Bridges
- Concrete Slab Bridges
- Steel Stringer with Cast-in-Place Concrete Deck Bridges
- Steel Plat Girder Bridges with Horizontal Curves
- Major River Crossing Structures
- Bridge Hydraulic Analysis and Bridge Condition Surveys
- Bridge & Culvert Rehabilitation

Construction Services

- On-site Construction Inspection
- Construction/Materials
- Documentation

Transportation Planning

- Agency Coordination
- Feasibility, Corridor & Location and Alignment Studies
- Public Involvement & Participation
- Phase I, Preliminary Design (Federal Aid Projects)
- Alignments & By-Pass Studies
- Interstate Access Justification
- Pavement Management Systems
- Value Engineering
- Roadway Safety Audits

Environmental Compliance

- NEPA Compliance
- Environmental Impact Statements
- Environmental Assessments (EA)
- Wetlands
- Endangered Species
- 404/401 Permitting
- Phase I & II Property Assessments
- Noise Compatibility/Monitoring
- Air Quality Studies

Land Acquisition

- Right of Way Documents
- Property Surveys
- Right of Way Acquisition
- Relocation Services

Traffic Systems

- Traffic Signal Systems
- Traffic Impact Studies
- Traffic Analysis/Capacity Analysis
- Traffic Simulation Modeling
- Impact Traffic Management
- Traffic Calming Studies
- Safety Studies

GIS Technology & Asset Management

- Needs Assessment
- Database Design
- Applications Development
- Data Conversion
- GIS Facility Data Collection

Rail Engineering & Planning

Utility Coordination

Land Surveying

Asset Management

Value Engineering

Delivering Value to Local Public Agencies

SAVINGS & PERFORMANCE



I-70 & Mississippi River Bridge Interchange
- MODOT & St. Louis, MO

Innovative & streamlined
project development
process **saves MoDOT**

28%



I-70 & Route MM Interchange
- Warrenton, MO

CMT delivered preliminary through final plans on
this developer driven, fast-tracked Interchange
project in

8 Months

Saving Money

We know that going over budget is not an option. CMT is consistently commended on our ability to not only remain within budget, but often identify opportunities to either save money or maximize the money already being spent.

Beating Schedules

Through streamlined communication and proven workflow processes, CMT routinely demonstrates our commitment to meeting schedules or fast-tracking schedules to address specific client goals.

Performance-Based. Value-Driven.

At CMT, we know that costs and schedules aren't the only contributors to successful projects. True transformation happens when the resulting infrastructure is more efficient and functional.

As pioneers in performance-based project development, CMT helps our DOT clients leverage their investments to create greater value and enhanced project performance.



Achieving Recognition

CMT's innovative and collaborative solutions are routinely honored with industry awards for excellence and client satisfaction.

Des Peres Roundabout

- 2025 APWA Missouri
- Transportation Project of the Year

Mississippi River Bridge Project

- 2014 ACEC Missouri Grand Award
- 2019 America's Transportation Award

Park Over the Highway

- 2019 America's Transportation Award
- 2017 ACEC National Recognition Award

20th Street Cycle Track & Mobility Project

- 2023 APA St. Louis
- Outstanding Planning Practice Award