



**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 / Trails & Sidewalks

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 Trails & Sidewalk services. Our reputation for providing quality deliverables on pedestrian & bicycle facility 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 Trails and Sidewalks.

## 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 Trail & Sidewalk 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. 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 Trails & Sidewalks.

**Kirkwood Road Traffic Signal Optimization & Interconnect Project (LPA-Federally Funded).** This project involved full signal replacement at 12 intersections along 2.3 miles of Kirkwood Road through the City’s historic downtown area. Upgrades included new signal structures, upgrading pedestrian facilities/sidewalks/curb ramps for ADA compliance at the intersections, and railroad crossing signage. CMT completed the final design plans and specifications and provided full-time construction engineering services for the City.

**Nipher Middle School Safe Route to School Project (LPA-Federally Funded).** This project involved designing new ADA compliant sidewalks, curb ramps, and paved approaches along Kirkwood Road from just south of Woodbine Avenue to Chester Avenue. CMT Completed the design final plans and specifications for the project and provided fulltime construction engineering services for the City.

**Fifth Street Gateway Streetscape (LPA-Federally Funded).** The City of St. Charles chose CMT to design their new “gateway” to St. Charles’ central business district. Architectural enhancements, including pathways, sitting and viewing areas, historic lighting and a new gateway structure welcoming visitors to the City was part of the project. A complex design involving right-of-way issues, utility coordination and ADA compliant sidewalks was also part of this challenging project.



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**Park Over the Highway (MoDOT).** CMT was selected to provide engineering services for the improvement of downtown St. Louis streets in order to accomplish and meet the goals of CAR2015, a civic organization formed to improve the area adjacent to the Gateway Arch. CMT worked with CAR2015's landscape architect to design a new "Land Bridge" which will carry pedestrians across I-70 on new trails connecting downtown St. Louis with the Riverfront. Complex ADA designs along with ten blocks of City sidewalks were also included.

**Sullivan, MO Elmont & Springfield Signal (LPA-Federally Funded).** CMT completed design and inspection for a new traffic signal and ADA improvements at the intersection of Elmont road and Springfield Road.

**US 54 Pedestrian Improvements, Phase I & II (LPA-Federally Funded).** The US Route 54 pedestrian improvements project included adding sidewalk to the sides of Route 54 for approximately 2,700 feet (Phase I) and 6,800 feet (Phase II). Design included ADA sidewalks, crosswalks and curb ramps, pavement repairs (cross slope corrections), bridge widening to accommodate the new sidewalk, driveway design, utility coordination, interstate ramp modifications and pedestrian signals.

**Preacher Road Boulevard (LPA-Locally Funded).** CMT designed one-mile of sidewalk for the City of West Plains. ADA improvements, retaining walls, drainage studies and intersection improvements were part of the scope.

**Marshfield, MO Route 66 Roadside Park (LPA-Cost Share).** CMT completed turn-key design services for this project. CMT provided ADA pathway design, wayfinding signage, historic structure preservation, lighting design, right-of-way acquisition, construction estimating, box culvert design, proposed site grading and roadway reconstruction.

**Branson Historic Downtown (LPA-Locally Funded).** CMT was commissioned by the city of Branson for planning and engineering of a six-block historic downtown streetscape revitalization. The core of the project is to improve pedestrian and traffic flow with sidewalk and intersection improvements and aesthetic features.

**Lay Road Sidewalk and Roadway 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 3,400 feet. Roadway improvements, including a new curb line and an asphalt overlay, were also a part of this LPA project.

**Chadwick Flyer Trail (LPA-Federally Funded).** CMT has worked for multiple agencies along this 12-mile regional trail, including City of Ozark, Ozark Greenways, and the Ozarks Transportation Organization for planning, design, and construction inspection services. The multi-use path follows the historic abandoned Chadwick Flyer Railroad, connecting from the heart of Springfield to Downtown Ozark. CMT has provided services on seven different phases, ranging from ADA multi-use trail to structural bridges over significant

highway and water features to facilitate this regional connection.

**Gravois Greenway (LPA-Locally Funded).** The existing Grant's Trail was one of busiest and most traveled Greenways within the Great Rivers Greenway (GRG) system. CMT provided structural and electrical engineering services for this GRG project. The main structural task included the design of 12 substructure units utilized to support the prefabricated pedestrian structures carrying Grant's Trail over Bayless Avenue and the River des Peres. CMT's electrical engineers were responsible for the design of a CCTV system at the Orlando's Trailhead and lighting design elements throughout the corridor.

**Route 13 ADA Improvements (MoDOT).** CMT was selected by MoDOT to perform an ADA field conditions survey, a conceptual study, and design plans to upgrade facilities to ADA compliance along the 7-mile corridor, from Route 60 to I-44 in Springfield. CMT evaluated sidewalk compliance, ADA curb ramps, signing, signals, lighting, pavement marking, paved approaches, and drainage to meet MoDOT's PROWAG and ADA transition plan requirements. CMT is currently underway with the right of way design plans and documents. CMT and EFK utilized the HSM to develop safety countermeasures for improved pedestrian safety and identified the highest ROI using a Benefit-Cost Model.

**20th Street Cycle Track.** The 20th Street Mobility Improvements Project in St. Louis reconstructs 1.64 miles of 20th Street between Market Street and St. Louis Avenue, creating a multimodal corridor that prioritizes safety and accessibility for all users. A key feature is the inclusion of a separated cycle track, designed within a 60-foot right-of-way without permanent property acquisitions, to connect neighborhoods and integrate with the Brickline Greenway. The project incorporates traffic calming, upgraded sidewalks, lighting, drainage, and landscaping, supported by robust community engagement such as walk audits and pop-up demonstrations, which earned an APA Outstanding Planning Practice Award. With a \$14.4M budget and \$5M in federal CMAQ funding, construction is underway and expected to open by Fall 2026, enhancing connectivity to the newly built MLS Stadium and future greenway extensions.

## 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.

**Andrew Mueller, PE** | Andy is Group Manager of the 30-person Surface Transportation Team in Springfield and brings over 35 years of 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 and projects, including the Smooth Roads Initiative, Practical Design implementation, and the first Diverging Diamond Interchange in the USA.

**Matt DeMoss, PE** | Matt brings a diverse experience in transportation projects, ranging from ADA design to complex interchange projects. He has been key in managing and designing several CMT pedestrian-focused projects for MoDOT and LPA's throughout the state, most notably the regional Chadwick Flyer Trail.

**Alex Zelles, MS, CSE** | Alex is a Certified Senior Ecologist with 13+ years in natural resources, specializing in NEPA environmental assessments, endangered species impact assessments, wetland/stream permitting, habitat evaluations, and regulatory compliance at city, county, state, and federal levels. She has successfully helped navigate the RER process to achieve NEPA approvals on numerous LPA-led projects across the state.

**Jack Blakemore, PE** | Jack has over 32 years of experience and has served as Project Manager for several MoDOT projects including the I-55/East Main Interchange in Jackson, the Route 210 project in Kansas City and the Route 61 Project for the NE District, which won MoDOT's first Practical Design Award for a consultant.

**Cassie Lee, PE, PTOE** | Cassie has over 8 years of diverse experience in intersection, roadway, and ADA design. She excels at combining traffic & safety knowledge with design expertise to develop effective and practical solutions for clients, including for numerous signalized intersections and ADA-compliant facilities.

**John Keeven, PE** | John has over 17 years of experience on transportation 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.

**Ryan Stehn, PE** | Ryan has over 11 years of experience in roadway and ADA design projects for both local and state agencies. He has been responsible for numerous MoDOT ADA and LPA Trail projects throughout Missouri, including the Chadwick Flyer Trail and Route 13 ADA Improvements.

**Carrie Dilley, PE** | Carrie has over 13 years of experience in roadway design. She has worked on high-profile design projects for MoDOT. Carrie has extensive roadway design software experience that includes Microstation, InRoads and Geopak.

**Ron Leible, PE** | Ron has over 36 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 our core group of clients and our extensive experience with their staffs gives us the familiarity to be very 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. All of these projects were completed with minimal review comments:

- Church Road Widening (Arnold)
- Historic Lighting (Warrenton)
- Geiger Road (St. Louis County)
- Kirkwood Road Traffic Signal (Kirkwood)
- Lay Road Sidewalk and Road (Ladue)
- Route 100 Enhancements (Washington)
- US 54 Pedestrian Improvements (Camdenton)
- Lions Den Road Corridor (Jefferson County)
- Fifth Street Gateway Streetscape (St. Charles)
- Sullivan Elmont/W Springfield Signals (Sullivan)
- Chadwick Flyer Trail (Ozark)

## Accessibility/Responsiveness

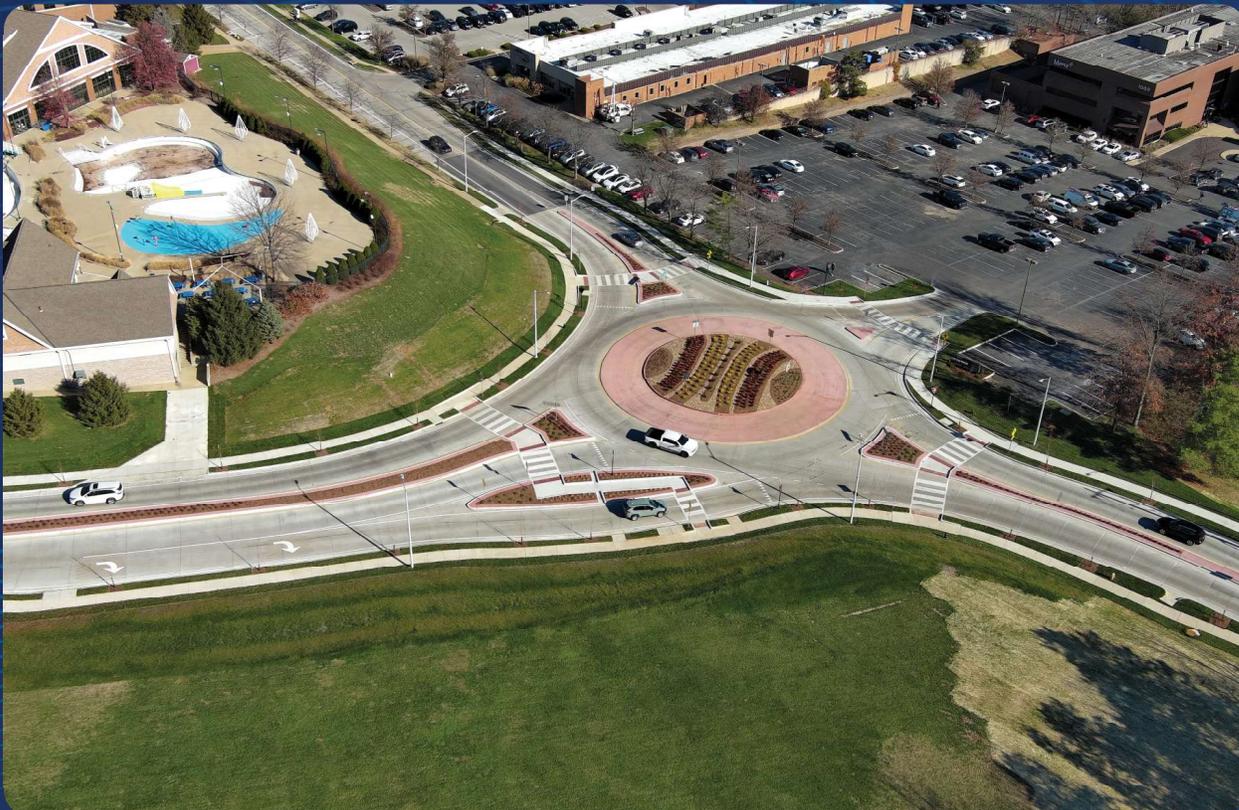
Assigned personnel for Trail and Sidewalk Design services are based out of our four Missouri offices and available immediate collaboration. This group is highly focused on the successful delivery of services within allotted schedules. Our Missouri transportation team is known for listening to our clients, developing innovative solutions, meeting scheduled milestone dates, and staying within budget. In addition, our team relies on responsiveness to our clients' requests, with a goal of responding to all requests within 24 hours. With ADA design experts located in each of our four offices across Missouri and living and working near five district offices, we can provide trail and sidewalk 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 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.



**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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## 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