



November 15, 2013

Mr. Kenny Voss, P.E., Local Program Administrator
Missouri Department of Transportation
PO Box 270
Jefferson City, Missouri 65102
ATTN: Mary Ann Jacobs

**RE: Letter of Interest
Local Public Agency (LPA) / Structures**

Dear Mr. Voss:

Crawford, Murphy & Tilly, Inc. (CMT) is very interested in becoming part of Missouri's LPA team of consultants to provide professional engineering for Structures. Our reputation for providing quality deliverables related to bridge design projects while incorporating cost-efficiency and innovativeness has assisted our municipal clients' ability to best improve their infrastructure more cost-effectively.

PREQUALIFICATION

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

- Federal Aid Basic Training January 1, 2015
- MoDOT E-Verify August 12, 2014
- Financial Prequalification August 29, 2014
- Bridge Forms November 6, 2015
- Bridge QA/QC Plan December 10, 2015

WORKFORCE DIVERSITY

CMT strives for workforce diversity and promotes diversity in all facets of our business, including LPA work. CMT's commitment to diversity has been demonstrated on previous projects such as the I-70 Interchange for the New Mississippi River Bridge, which was completed for MoDOT. This project had a 12.4% women/13% minority participation and was instrumental in CMT receiving "Consultant of the Year" from MoDOT's External Civil Rights Division. CMT was also distinguished in 2012 by the Illinois Black Chamber of Commerce as one of three recipients of the "Outstanding Business of the Year". These recognitions reflect CMT's commitment to diversity through more proactive recruitment of minorities and women, mentoring programs and initiatives.

THREE COMPANY REFERENCE FORMS

The required company reference forms are included as an attachment to this letter.

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 structural design. Since 1983, when CMT opened an office in Missouri, we have provided structural engineering services to numerous municipal clients throughout the state. 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 Structures.

- **Highway 54 Bridge.** CMT was selected by Camdenton, MO for this bridge widening project which added an additional width to the bridge for pedestrian access. This was an LPA project with Federal

oversight and was on a MoDOT-owned bridge, which required coordination with the Bridge Division.

- **Schneider Road Bridge.** Jefferson County selected CMT to provide engineering services for this creek crossing. The project was an LPA project. CMT analyzed the existing abutments and was able to re-use these components to minimize construction costs and eliminate any right-of-way takings.
- **Lions Den Road Bridge.** CMT completed four phases of this important roadway corridor in Jefferson County. One of these phases had a stream crossing, where CMT provided preliminary through final design, including hydraulics and scour analysis for a two-lane bridge.
- **Route 109.** For the City of Wildwood, CMT was asked to provide an accelerated design for an “underpass” that carried bicycle and pedestrian traffic under Route 109 to connect two trails. Not only was the design completed expeditiously, but the design included provisions to complete construction of the “underpass” in 45 days.
- **Broadway Avenue Bridge.** The City of St. Louis requested studies be undertaken on this LPA project due to the backflow from the Mississippi River being one-half mile away which resulted in frequent flooding of the existing bridge. Five alternates were reviewed before a consensus on a profile grade was agreed upon. The new design reduced the chance of flooding while still providing an economical design for this 5-span precast concrete I-girder bridge.
- **US 50/63 – McCarty Street.** CMT worked with a Public-Private-Partnership (PPP) to come up with an innovative interchange in Jefferson City, Missouri. CMT completed the design of the roadway as well as the resulting grade separation structure over US 50/63. Coordination with MoDOT was required on this project.
- **Discovery Parkway/Route 63 Interchange.** Another PPP, CMT completed preliminary through final plans for this grade separation structure in Columbia. Coordination efforts with numerous stakeholders along with incorporating the ideas from the developer’s architect increased the complexity of this design.
- **Route 266 and New Airport Road.** A new bridge and a rehabilitation of an existing structure along with associated roadway work were accelerated from a 20-month schedule to 7 months due to the request of the City of Springfield. This was based on the opening of a nearby airport.
- **Route 185 over I-44.** A cost-share project between MoDOT and the City of Sullivan, this major revamping of infrastructure in the City, resulted in 2.5 miles of roadway improvements, two major box culverts, a grade separation structure over I-44 and two large reinforced earth retaining walls.
- **Route 67 over the Meramec River.** In conjunction with the City of Arnold, MoDOT replaced a major river crossing connecting St. Louis and Jefferson Counties. This project dealt with deed-restricted properties and endangered species, along with the hydraulics, scour analysis, and preliminary through final design of a 900-foot long bridge.
- In addition to the above local projects, CMT does bridge design in the Metro East area of St. Louis in Illinois along with numerous complex as well as simple bridges for MoDOT and IDOT.

QUALIFICATIONS OF PERSONNEL

Ron Breville, P.E., S.E. - Ron has over 20 years of experience providing design and management of transportation-related structural projects. He recently completed work as the project engineer for the Schneider Road Bridge for Jefferson County. Other projects Ron has managed or designed include: the McCarty Street over Route 50/63 in Jefferson City, the Route 266 Bridge that provided access for the Springfield/Branson Airport and Discovery Parkway over Route 63 in Columbia, Missouri.

Josh Jolliff, P.E. - Josh has over 12 years of experience designing structures for transportation projects. He has performed complex design work on several projects including the Lions Den Road bridge, Highway 54 bridge and two Greene County bridge projects. Josh keeps up to date on all the latest structural software and provides hydraulic coordination/design on stream crossings.

Brian Durall, P.E. – Brian is a recent addition to the St. Louis structural group with over 12 years of bridge design experience, including the numerous box culverts and retaining walls along with several county bridges.

Jason Shurtz, P.E. – Jason has 5 years of structural design experience. He has recently been added to St. Louis’ Highways & Bridges staff where he will be assisting in bridge design. Jason has designed several box culverts, retaining walls and his bridge experience includes two stream crossings for Greene County, MO.

Greg Law, P.E. – Greg oversees the St. Louis Highways & Bridges Group. He has over 30 years of experience and oversees the QA/QC and management of all projects in this group.

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 oversight as well. The following table of projects shows projects that included federal oversight on LPA projects. All of these projects were completed with minimal review comments by FHWA:

- Church Road Improvements (Arnold)*
- Historic Lighting (Warrenton)*
- Schneider Road Bridge (Jefferson County)*
- Broadway Avenue Bridge (St. Louis)*
- Highway 54 (Camdenton)*
- West Terra Road – Phase III (O’Fallon)*
- Geiger Road (St. Louis County)*
- Goodfellow Blvd (St. Louis)*
- Route 100 Enhancements (Washington)*
- Lions Den Road (Jefferson County)*

ACCESSIBILITY

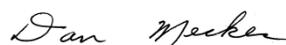
All of the assigned personnel listed above work out of our St. Louis office. In addition, we have ten structural engineers in other offices that can be utilized when the backlog capacity of the St. Louis office is exceeded. This entire group is highly focused on the successful delivery of services within allotted schedules set by our clients. Our St. Louis Highways & Bridges Group has met 100% of their scheduled milestone dates on all of their projects over the last ten years. In addition, our team relies on responsiveness to our clients’ requests, with a goal of responding to all requests within 24 hours. The following table indicates some of our recent accelerated schedules:

PROJECT	CLIENT	CONTRACT DESIGN TIME	ACTUAL DESIGN TIME
MRB Interchange	MoDOT	14 months	12 months
Rte 266/Airport Blvd	Springfield, MO	20 months	7 months
Park Over the Highway	MoDOT	10 months	10 months
Rte 185/I-44	Sullivan, MO	24 months	21 months
I-44 Union to Pacific	MoDOT	10 months	7 months
Rte 100 Washington	MoDOT	24 months	10 months
Church Rd	Arnold, MO	12 months	10 months
US 50/63 & McCarty St.	Jefferson City, MO	24 months	21 months

CMT has enjoyed the working relationship that has been established and grown over the years with our LPA teammates. CMT offers an uncommon level of stability and staff continuity which will assist us as we move forward with more complex and exciting projects with municipalities throughout the state. We believe we have an excellent team that can provide responsive and cost efficient designs for LPA Structural projects.

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,



Daniel R. Meckes
President

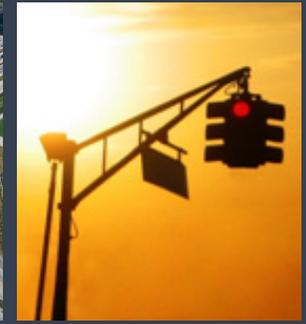
MoDOT

*Bringing Value to Missouri
Highways and Bridge
Infrastructure*



CMT

CONSULTING ENGINEERS



About CMT

Established: 1946

Firm Size: 264

Rankings

- #239 Among Top 500 Design Firms (Engineering News-Record 2013)
- #4 Midwest Civil Engineering Firm (Midwest Construction 2013)
- #6 Midwest Firm in Transportation (Midwest Construction 2013)
- #6 Design Firm in Missouri (Midwest Construction 2013)

Service Areas

- Highways and Bridges
- Aviation
- Land Development
- Water and Wastewater

Other Locations

- Springfield, IL (corporate)
- Aurora, IL
- Chicago, IL
- Columbus, OH
- Edwardsville, IL
- Indianapolis, IN
- Peoria, IL
- Rockford, IL

CMT Highways & Bridges

From complex highway interchanges in urban settings to major bridge river crossings, 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, we are responsive to our clients' needs. While meeting their goals of providing safe and efficient transportation, we also seek out community input and account for environmental considerations to provide context-sensitive solutions that assure each project succeeds on every level.

Highway and Bridge Services

- Program Development
- Planning/Feasibility Studies
- Noise and Air Quality Studies
- Environmental
- Road and Highway Design
- Bridge Design
- Traffic Studies
- Construction Phase Services
- Land Acquisition
- Structural
- Lighting
- Bikeways and Paths
- Drainage
- Public Involvement

Missouri Offices

CMT's St. Louis and Springfield offices allow us to better serve multiple regions throughout the state. Between the two offices we have a staff of over 60 employees supporting transportation infrastructure projects throughout the state.



CMT-St. Louis
Gateway Tower
One Memorial Drive, Suite 500
St. Louis, Missouri 63102
314.436.5500 fax: 314.436.0723

CMT- Springfield, MO
1631 West Elfindale
Springfield, MO 65807
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www.cmtengr.com



New I-70 Interchange for Mississippi River Bridge

MISSOURI DEPARTMENT OF TRANSPORTATION

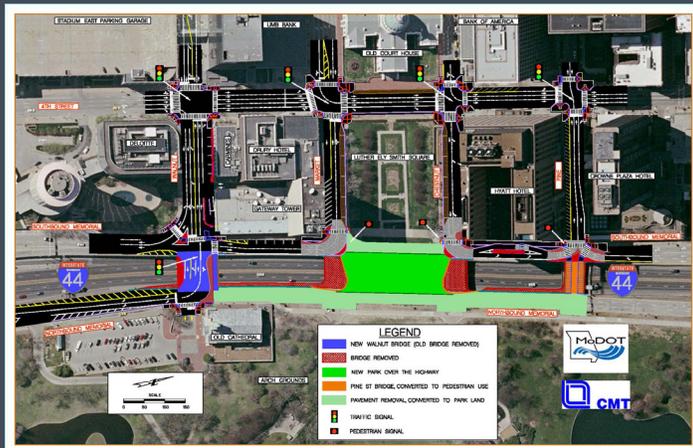
ST. LOUIS, MISSOURI

- Five new ramps providing movements to and from the new bridge to I-70 and I-44
- Seven bridges and six retaining walls
- Successful achievement of highly accelerated schedule – designed in 12 months
- Innovative Practical Design approach resulted in 30% cost reduction (\$13M)
- Reconfigured original interchange design to more economical configuration
- Documentation for route marking changes
- Complex construction staging
- Urban street designs including mobility and ADA requirements

West Terra Road Improvements

CITY OF O'FALLON, MISSOURI

- Phase I and II consisted of widening/overlay of 7400 linear ft. of roadway improvements
- Phase III consisted of 6100 linear feet of roadway improvements
- MoDOT/LPA-administered project
- Improvements included overlay, shoulder/bicycle land additions and drainage improvements
- Field surveys
- Intersection design studies
- Drainage studies
- ROW surveys and documents
- Environmental survey request
- Traffic signal design



A Park Over the Highway

MISSOURI DEPARTMENT OF TRANSPORTATION

ST. LOUIS, MISSOURI

- Very high profile project featuring a new 280 foot land bridge over I-70 connecting the Jefferson Expansion Memorial Park (Arch grounds) with the downtown at Luther Ely Smith Square
- Removal of three bridges over I-70 and reconfiguration of area traffic patterns involving improvements to a 8 square block area of downtown St. Louis
- Unique structural components
- Communication with a wide variety of stakeholders including extensive coordination with the landscape architect working for CAR2015
- Successful achievement of highly accelerated schedule – designed in 8 months
- Complex construction staging plan

Church Road Widening

CITY OF ARNOLD, MISSOURI

- Widening and relocation of a two lane roadway to a proposed five lane roadway
- Traffic study
- Successful CMAQ Funding Application
- Public involvement meetings
- Five signalized intersections
- Coordination with MoDOT (CMAQ Project - LPA Manual)
- Construction Inspection





Route 210 Widening

**MISSOURI DEPARTMENT OF TRANSPORTATION
KANSAS CITY, MISSOURI**

- 5 mile long project, converting a 2-lane rural to a 4 lane expressway.
- High traffic roadway with significant truck activity
- New roadway, drainage, signing, signals, lighting, etc.
- CMT conducted streamlined VE Study
- \$1.48M in savings (12.7%) from 63 creative ideas, 3 accepted VE Proposals

Lions Den Road Improvements

JEFFERSON COUNTY, MISSOURI

- CMT was selected for all four phases of a four mile roadway improvement.
- Widening from two 10-foot lanes to two 12-foot lanes with two 8-foot shoulders
- Prepared four alternative alignments with preliminary cost estimates
- Public Information meetings
- Funded with STP funds and MoDOT's Local Roads Group



Historic Pedestrian Street Lighting

WARRENTON, MISSOURI

- MoDOT LPA administered project consisting of approximately 2,200 feet of sidewalk to be illuminated
- Fixed construction budget
- Temporary traffic control
- Utility survey pickups and coordination
- Alternative lighting analysis utilizing IES RP-8-00 American National Standard Practice for Roadway Lighting
- Construction observation

Route 61/67 Bridge over Meramec River

**MISSOURI DEPARTMENT OF TRANSPORTATION
ST. LOUIS, MISSOURI**

- Major river crossing connecting Jefferson and St. Louis counties
- Extensive 404 PERMIT and environmental permitting
- Detailed hydraulic analysis
- Architectural enhancements
- Fast schedule was accelerated - CMT met all the required milestones

