MoDOT

Missouri Department of Transportation
Patrick K. McKenna, Director

105 West Capitol Avenue
P.O. Box 270
Jefferson City, Missouri 65102

1.888.ASK MODOT (275.6636)

February 6, 2017

Dear Consultant:

The Missouri Highways and Transportation Commission is requesting the services of a consulting engineering firm to perform the described professional services for the project included on the attached list.

If your firm would like to be considered for these consulting services, you may express your interest by responding to the appropriate office, which is indicated on the attachments. Limit your letter of interest to no more than four total pages. This letter should include a statement to indicate your firm's understanding of the project. It should also include any other information which might help us in the selection process, including key personnel you would assign to the project and the backgrounds of those individuals, and any sub-consultants you would propose to use, and an indication of your firm's approach to promoting and developing a diverse workforce. MoDOT is committed to reflecting the diversity of the communities we serve and we expect our partners to do the same. We will utilize the consultant information already on file so we will not need a lengthy submittal of other general company information. As part of the four total pages, please include on one page with detailed information on similar projects that your key personnel have worked on. Indicate the role your key personnel played in the projects and include reference contact information.

DBE firms must be certified by the Missouri Department of Transportation in order to be counted as participation towards an established DBE Goal. We encourage DBE firms to submit letters of interest as prime consultants for any projects they feel can be managed by their firm. We also encourage both DBE firms and non-DBE firms to consider joining MoDOT's Mentor/Protégé program whenever possible as part of a MoDOT project.

MoDOT will evaluate firms based on: Past Performance, Qualifications of Personnel Assigned, Familiarity/Capability, General Experience of Firm, and Accessibility of Firm and Staff. Firm's not providing a response on approach to workforce diversity will be considered non-responsive to this solicitation. Firm's that are not current on all of the required prequalification categories found in MoDOT's Approved Consultant Prequalification List at the date of the solicitation expiration will be considered non-responsive.

We request all letters be received by 3:00 pm, February 24, 2017 at the appropriate office.

Sincerely,

Eric Schroeter, P.E.
State Design Engineer

Attachment

Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.

DISTRICT OFFICES

Kansas City District
Don Wichern – District Engineer
Missouri Department of Transportation
600 NE Colbern Road
Lee's Summit, MO 64086

Contact
K. Mark Sommerhauser
KC Scout ITS Project Manager
#816-607-2243
karsten.sommerhauser@modot.mo.gov
Email responses are encouraged

KC District

Various Counties, Various Routes	
Job No:	J4Q3000
Location:	KC Scout Traffic Management Center
Proposed Improvement:	Ramp Metering Software Implementation and Maintenance
Contract Length:	3 year contract
Approximate Contract Value:	Between $150,000 and $400,000
DBE Goal (if applicable)	0%
Consultant Services Required:	Development and Maintenance of Ramp Metering Software at the Bi-state KC Scout Traffic Management Center
Other Comments:	Ramp metering software demos will be performed with the short listed firms. No interviews or presentations will be required. The software demos will last between 50 and 120 minutes and demos can be provided either in person or remotely by webinar. The Consultant Short List will be posted to the web around March 1st and the anticipated consultant selection date will be March 22nd. Additional Ramp Metering Software Information: KC Scout currently utilizes Parson's iNET Corridor Adaptive Ramp Metering Algorithm (CARMA) software with custom NTCIP compliant Field Traffic Controllers in order to operate 17 ramp meters in the bi-state Kansas City region. KC Scout is open to other ramp metering software options that utilize other controller types, but the following existing capabilities must be provided with any new ramp metering solution: • Time of day control that establishes when local traffic responsive sensors are allowed to activate the ramp meter. • Queue detection that is configurable in order to manage the sensitivity of vehicle flushing. • Intermediate queue detection located partly up the ramp that can automatically increase

	the metering rate (in order to delay or avoid flushing as much as possible). • Ramp metering configurations that will support both one and two lane ramp meters along with settings that will support either one or two vehicles per green. • Local traffic responsive algorithms that set metering activation and rates based on mainline speeds near the gore point. New ramp metering software functionality that Scout would like to have implemented: • The option to utilize lane occupancy readings (instead of speeds) to proactively activate ramp meters before mainline speeds start to drop. • Advanced data logging and performance reporting that can summarize ramp metering operations at each location. • The ability for local radar units to simultaneously report real time speeds both to the ramp meter controller and the central Advanced Traffic Management System (ATMS) software without interfering with each other. Ramp metering software functionality that would be beneficial to have, but it is not mandatory: • Options to implement central ramp metering control based on detection that is not connected directly to the local ramp metering controller. • Corridor algorithms that utilize lane occupancy along an entire corridor in order to proactively turn on ramp meters.

Rating Criteria w/Weighted Values

General Experience of Firm	10 Points Max
Past Performance (References Included)	25 Points Max
Qualifications of Personnel Assigned	15 Points Max
Familiarity/Capability (Software Demo)	40 Points Max
Accessibility of Firm & Staff	10 Points Max
	100 Points Max Total