



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

Missouri Department of Transportation
Patrick K. McKenna, Director

1.888.ASK MODOT (275.6636)

6/15/2021

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 three 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. In addition, please attach up to two additional pages with detailed information on similar projects that your key personnel have worked on (for a total submittal of no more than five pages). Indicate the role your key personnel played in the projects and include at least two ATMS software references along with their 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: Project Understanding & Innovation, Past Performance, Qualifications of Personnel Assigned, General Experience of Firm, Familiarity/Capability, Accessibility of Firm & 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, July 2, 2021 at the appropriate office.

Sincerely,

2021.06.15
15:15:47-05'00'

Travis Koestner, P.E.
State Design Engineer

Attachment

Our mission is to provide a world-class transportation system that is safe, innovative, reliable and dedicated to a prosperous Missouri.

www.modot.org

DISTRICT OFFICES

Highway Safety and Traffic Division
Nicole Hood – Division Engineer
Missouri Department of Transportation
830 MoDOT Dr.
Jefferson City, MO 65102

Contact

Katy Harlan
(573) 526-0117
katy.harlan@modot.mo.gov
Email responses are encouraged

Statewide

Various Routes, Various Counties	
Job No:	Various
Location:	MoDOT Statewide Traffic Management Centers (Gateway Guide, and TMC of the Ozarks)
Proposed Improvement:	Freeway Advanced Traffic Management System (ATMS) software maintenance and license for software
Consultant Contract Duration:	3 years (two one-year renewal options)
Approximate Construction Cost:	St. Louis (Gateway Guide) scope: \$1,350,000 Southwest (TMC of the Ozarks) scope: \$360,000 (Note: 25% of this will be paid for by the City of Springfield) \$1,710,000 total for the 3 year term
DBE Goal (if applicable)	0%
Consultant Services Required:	<p>Advanced Traffic Management System (ATMS) software implementation and support for ITS devices and for two of the major Traffic Management Centers in Missouri (St. Louis, and Springfield).</p> <p>The new ATMS software support contract will implement and maintain a MoDOT ATMS software that controls ITS equipment and devices along rural corridors as well as the urban centers of St. Louis and Springfield. The following are major functions that the ATMS software will have to support:</p> <ol style="list-style-type: none"> 1. Mapping capabilities including the following: <ol style="list-style-type: none"> a. Mapping all state routes b. Intersection level mapping c. TWLT capabilities d. Lane by lane visibility e. City of Springfield roads mapping f. City of Joplin roads mapping g. Incident mapping h. Congestion mapping i. Weather mapping j. AVL mapping k. Response plans l. Device mapping 2. Video Camera Control System compatible with our existing equipment 3. Web-based user interface options 4. Integration with Waycare predictive analytics software 5. Dynamic Message Sign & Traveler Information System compatible with our existing equipment 6. Freeway Management System including freeway side-fire microwave/radar detectors, Probe Data, and arterial TT sensor and Bluetooth 7. Traffic Signal integration system for MoDOT traffic signals compatible with all existing SL controller types – This is exclusively for the SL TMC 8. Automated Traffic Signal Performance Measures (ATSPM) support 9. System which manages MoDOT ITS device inventory and maintenance/repair tickets 10. Traffic Incident Management (TIM) portal 11. Scheduled event layer/portal

12. TMC video wall integration and interaction via video control system
13. ATMS CCTV analytic alarms such as wrong way driving, and slow/stopped vehicles on the roadway.
14. Data portal which manages and keeps the historic MoDOT side radar detector traffic data
15. Ability to integrate GEOTAB AVL data, and Surfsight cameras for ER vehicles.
16. 911 computer aided dispatch integration including:
 - a. Multiple site import ability
 - b. Continuous import of traffic incidents and automatic mapping
17. Traffic device integration including:
 - a. CCTV and Detection Cameras including:
 - i. PTZ capabilities aslnd presets
 - ii. Vendor Agnostic: AXIS, Miovision, Suflight, Pelco, Blackvue, etc.
 - iii. Compressed video streaming
 - iv. Video tours
 - b. DMS/CMS/VMS including:
 - i. Tiered priority messaging
 - ii. Scheduling capabilities
 - iii. Travel time messaging
 - iv. Weather alter messaging
 - v. Standard and full color matrix supported
 - vi. Queue warning system
 - c. Traffic detection device integration and data display including (but not limited to):
 - i. WIFI sensors
 - ii. Sidefire radar
 - iii. Queue warning system between Wavtronix Smart HD sensor and CMS board
 - iv. Miovision sensors
18. Weather applications including:
 - a. RWIS and stand-alone device integration (data and visibility)
 - b. RADAR mapping
 - c. Severe weather alerts
19. External Communication including:
 - a. 3rd party data feeds including:
 - i. www.ozarktraffic.com export
 - ii. www.Gatewayguide.com export
 - iii. MoDOT Traveler Information Map export
 - iv. MoDOT TMS export
 - v. WAZE import/export of data
 - vi. RITIS import/export
 - vii. Social media export
 - viii. Xml/json data structures
 - ix. Waycare
 - x. Mizzou TITAN
 - b. Email Altering including:
 - i. Special events
 - ii. Construction events
 - iii. Major incidents
 - iv. Ability to attach screenshots
 - c. TTI/McCain integration

	<ul style="list-style-type: none"> d. ATSPM software integration e. Map based selectable customized email/text alerts for public <p>20. Video wall management</p> <p>21. TMC to TMC control</p> <p>22. Alerts</p> <ul style="list-style-type: none"> a. Signal system integration b. Device alarm reporting <p>23. Remote access capabilities</p> <p>24. User privilege by jurisdiction or security level</p> <p>25. Web and mobile platform based access</p> <p>26. Reporting including:</p> <ul style="list-style-type: none"> a. Incidents b. Construction c. DMS d. Communication <p>27. Integration of TMS layers on ATMS map</p> <p>28. Assign multiple “home views” in ATMS map</p>
<p>Other Comments:</p>	<p>A short presentation and a live ATMS software demonstration will be conducted with the short-listed firms.</p> <p>The Consultant Short List will be posted to the web around July 12, 2021.</p> <p>Tentative presentation and software demo date: July 19, 2021.</p> <p>During the final consultant selection process (after the shortlist has been released), the consultant’s software demo will provide half of the points in the Past Performance and Qualifications of Personnel Assigned categories.</p> <p>Half of the points under the Accessibility of Firm & Staff category will be reserved for the completeness of the consultant’s plan to provide 24/7 support for the mission critical ATMS software (to be explained during the consultant’s short presentation).</p>

Rating Criteria w/Weighted Values

Project Understanding & Innovation	25 Points Max
Past Performance	25 Points Max
Qualifications of Personnel Assigned	20 Points Max
General Experience of Firm	10 Points Max
Familiarity/Capability	10 Points Max
Accessibility of Firm & Staff	<u>10 Points Max</u>
	100 Points Max Total