



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)

January 10, 2024

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 **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: 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, **January 24, 2024** at the appropriate office.

Sincerely,

Kenny Voss, P.E.  
State Design Engineer

Attachment

## **DISTRICT OFFICES**

Tom Blair  
District Engineer  
Missouri Department of Transportation  
1590 Woodlake Drive  
Chesterfield, MO 63017

Contact  
Rick Zygowicz  
314-439-6754  
Richard.Zygowicz@modot.mo.gov  
Email responses are encouraged

## District SL & SW

<b>Various Counties, Various Routes</b>	
<b>Job No:</b>	J6Q3174G, J6Q2025G, J6Q2026G, SL0096G, 8Q3231
<b>Location:</b>	St. Louis and Springfield Transportation Management Centers
<b>Proposed Improvement:</b>	Freeway Advanced Traffic Management System (ATMS) software
<b>Length:</b>	3 years (two one-year renewal options)
<b>Approximate Construction Cost:</b>	\$2,120,000
<b>DBE Goal (if applicable)</b>	0%
<b>Consultant Services Required:</b>	This project will provide Advanced Traffic Management System (ATMS) software license and maintenance for the St. Louis and Springfield Transportation Management Centers.
<b>Other Comments:</b>	<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 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.</p> <p>The following is an overview of the major functions the ATMS software will support:</p> <ol style="list-style-type: none"> <li>1. Web-based user interface, supporting Chromium based browsers</li> <li>2. Center to center device and incident management, with single sign-on user authentication</li> <li>3. Standards based support of latest NTICP for Signal Controllers, DMS, CCTV, Detectors</li> <li>4. Base mapping supporting OpenStreetMap, ArcGIS, Bing, and Google</li> <li>5. CCTV management, supporting Axis, Cohu, Bosh, Pelco, Blackvue, Miovision, and Surflight</li> <li>6. DMS management, supporting Daktronic and LedStar boards, with both color and amber layouts</li> <li>7. Detector device management, including support for radar, probe, Bluetooth, and video detection</li> <li>8. Support for Here.com and TomTom services</li> <li>9. AVL integration supporting, GeoTab and Haas Alert enabled vehicles</li> <li>10. Traffic Signal management, supporting NTCIP McCain, Econolite, Siemens, and Intelight</li> <li>11. Automated Traffic Signal Performance Measures (ATSPM)</li> </ol>

	<ol style="list-style-type: none"> <li>12. Intersection level mapping that supports detectors, signals, pedestrian, and phase movements</li> <li>13. Integrated weather radar mapping through NWS, RWIS, or third-party weather services</li> <li>14. Video wall management through Activu API or directly through ATMS software</li> <li>15. External data exchanges with the following:       <ol style="list-style-type: none"> <li>a. Ozarktraffic.com</li> <li>b. MoDOT Traveler Information Map</li> <li>c. MoDOT TMS</li> <li>d. Mizzou-TITAN</li> <li>e. WAZE</li> <li>f. RITIS</li> <li>g. Social media</li> </ol> </li> <li>16. Data integration and import of the following:       <ol style="list-style-type: none"> <li>a. 911 computer aided dispatch, incidents with location mapping</li> <li>b. TrafficVision</li> <li>c. WAZE</li> <li>d. TTI/McCain</li> </ol> </li> <li>17. Alarm activation for device performance failures including Signals, CCTV, DMS, Detector</li> <li>18. Alert notifications for sever weather watches and warnings, by County</li> <li>19. Analytic camara alarms for wrong way driving, slow/stopped vehicles</li> <li>20. System reporting supporting individual incident summary, active constructions, DMS message history, and device communications, with ability to export into CSV, Word, and PDF</li> <li>21. Achieved data management that allows access and reporting on historic traffic and incident data</li> <li>22. Incident management systems with the following:       <ol style="list-style-type: none"> <li>a. Record location of event, type, impact, lanes obstructed</li> <li>b. Recommend DMS(s) and message(s) combination to address event</li> <li>c. Record when emergency responders were present at the event including arrival and departure</li> <li>d. Record type of vehicles and numbers involved in event</li> <li>e. Automatically send out event notifications to web, email, and third parties based on event type</li> <li>f. Generate a history of all actions taken by operators on an event for quality control audits</li> <li>g. Support graphical lane configuration of roadway layout at location of the event</li> <li>h. Support access of closest camera to event for quick monitor on progress</li> </ol> </li> </ol>
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	<ul style="list-style-type: none"> <li>i. Support attribute tagging of event (e.g. wet pavement, fatality, etc) to support future data analysis</li> <li>j. Generate data sets that can be used in quarterly reports on TMC performance</li> </ul> <p>23. System mapping functions including:</p> <ul style="list-style-type: none"> <li>a. Map all state routes</li> <li>b. Intersection level diagrams</li> <li>c. TWLT capabilities</li> <li>d. Lane by lane visibility</li> <li>e. City of Springfield roads mapping</li> <li>f. City of Joplin roads mapping</li> <li>g. Incident mapping</li> <li>h. Congestion mapping</li> <li>i. Weather mapping</li> <li>j. AVL mapping</li> <li>k. Response plans</li> <li>l. Device mapping</li> </ul> <p>24. CCTV specific device functions including:</p> <ul style="list-style-type: none"> <li>a. PTZ capabilities and presets</li> <li>b. Vendor Agnostic</li> <li>c. Support multi video streams (eg low, HD)</li> <li>d. Virtual video wall</li> <li>e. Camera groups</li> <li>f. Video tours</li> </ul> <p>25. DMS/CMS/VMS specific device functions including:</p> <ul style="list-style-type: none"> <li>a. Tiered priority messaging</li> <li>b. Scheduling capabilities</li> <li>c. Travel time messaging</li> <li>d. Weather alert messaging</li> <li>e. Standard and full color matrix supported</li> <li>f. Traffic queue and speed warning messaging</li> <li>g. Two phase messaging, different information each phase (e.g. weather / travel time)</li> </ul>
<p><b>Other Comments:</b></p>	<p>A presentation and an ATMS software demonstration will be conducted with the short-listed firms. Short listed firms may be requested to fill out a requirements matrix to further understand a systems capability beyond the functions listed.</p> <p>The Consultant Short List will be posted to the web</p> <p>Tentative Date of Consultant Interviews-Feb 21, 2024</p>

	Tentative Date of Consultant Selection-March 1, 2024
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**Rating Criteria w/Weighted Values**

Project Understanding & Innovation	30 Points Max
Past Performance	15 Points Max
Qualifications of Personnel Assigned	10 Points Max
General Experience of Firm	15 Points Max
Familiarity/Capability	20 Points Max
Accessibility of Firm & Staff	<u>10 Points Max</u>
	100 Points Max Total