

District SL

Various Counties, Various Routes	
Job No:	J6Q2025H, J6Q2026H, SL0096H
Consultant Services Required:	This project will provide independent support, modification, expansion, and maintenance of the Gateway Guide (GWG) Network. The Offeror will be responsible for all network maintenance activities and documentation management.
Other Comments:	<p>The following is an overview of the major responsibilities to manage the GWG Network:</p> <ol style="list-style-type: none">1. Daily Network Support:<ol style="list-style-type: none">a. Support predetermined network tasks.b. Support emergency or critical maintenance efforts.c. Work with partners, clients, and vendors on network interconnection projects.d. Deliver training if requested.e. Take direction from MoDOT's designated network manager.2. Configure, manage, maintain, troubleshoot:<ol style="list-style-type: none">a. Layer 1 through layer 3 network devicesb. Video stream transport and distribution hardware and softwarec. SolarWinds Orion network management platform or a similar Network Monitoring System software package as deployed by MODOT.d. Network security procedures, by performing regular security audits.e. Respond to network security incidents as required.3. Implement and support:<ol style="list-style-type: none">a. Video streaming software parallel adoption.b. Continuation of ASR-920 conversionc. St. Louis TMC network security between multiple networks.4. Document, Review, and Manage<ol style="list-style-type: none">a. Network Classless Inter-Domain Routing (CIDR) IP address and 802.1Q VLAN allocations.

	<ul style="list-style-type: none"> b. HSRP, REP, and other redundancy features and suggest potential upgrades and improvements. c. Bandwidth usage and suggest strategies on how to mitigate bandwidth congested areas. d. PIM design and suggest potential upgrades and improvements. e. Current Cisco device portfolio and provide a product lifecycle management strategy. f. Current database of IP devices. g. Network changes using industry standard tools. <p>Complete a monthly status report covering adds, moves, changes, and remedial activities.</p>
<p>Other Comments:</p>	<p>Networking Experience The following is an overview of the desired staff experiences and past efforts that would be seen as valuable in managing the GWG Network:</p> <ul style="list-style-type: none"> 1. 5+ years in layer 1 Ethernet technologies including single mode fiber, multimode fiber, and 802.11 (wireless LAN) technologies 2. 5+ years in layer 2 switching technologies including 802.1Q VLANs, REP, and STP 3. 5+ years in layer 3 routing technologies including OSPF routing, Classless Inter-Domain Routing (CIDR) IP addressing, PIM routing, HSRP routing, Dynamic Multipoint Virtual Private Network (DMVPN), private networks over cellular, and NetFlow traffic analysis 4. 3+ years in video compression standards and protocols, codecs, and real-time media streaming solutions (e.g., Wowza) <p>Device Experience</p> <ul style="list-style-type: none"> 1. Cisco IE series switches (IE-3000, IE-4000, IE-5000)

2. Cisco ME series routers (ME3600) and ASR-920 devices
3. Ubiquiti AirLink series wireless devices (PowerBeam 5AC)
4. Cisco 800 series VPN devices (C819)
5. Sierra Wireless RV50 devices connected to Verizon Wireless Mobile Private Network
6. Cisco 6800 series routers (C6807)
7. Cisco C4500X series routers
8. Cisco NCS2000 series DWDM shelves (NCS2006)
9. Cisco ASR 1000 series firewalls (ASR 1001)

Network Security

1. 5+ years in installation, configuration, upgrade, maintenance, and troubleshooting of firewalls and other network security devices
2. 5+ years with network security practices, hardening, and audits

Network Management

1. Experience with SolarWinds Orion or similar network management automation software
2. Experience managing SolarWinds Orion modules: Network Performance Manager (NPM), Network Configuration Manager (NCM), NetFlow Traffic Manager (NTM), User Device Tracker (UDT), and IP Address Manager (IPAM)

Troubleshooting

1. Experience with troubleshooting remote instrumentation devices such as CCTV cameras, vehicle detection stations, and industrial control systems

Certifications and Experience

1. 5+ years of experience managing networks of similar (or greater) size and scope

	<p>2. Cisco Associate level certification (e.g., Cisco Certified Network Associate (CCNA) Routing and Switching)</p> <p>Availability</p> <ol style="list-style-type: none"> 1. Be available 24x7x365 by telephone, email, or other approved method for emergency network support 2. Work with TMC staff during normal business hours (Monday-Friday 7:30 AM - 4 PM) unless other arrangements made
<p>Other Comments:</p>	<p>Depending on the responses, the Department may short list firms and request interview/presentations from those teams.</p> <p>The Consultant Short List will be posted to the web</p> <p>Tentative Date of Consultant Interviews-May 23, 2024</p> <p>Tentative Date of Consultant Selection-June 1, 2024</p>

Rating Criteria w/Weighted Values

Project Understanding & Innovation	25 Points Max
Past Performance	15 Points Max
Qualifications of Personnel Assigned	10 Points Max
General Experience of Firm	15 Points Max
Familiarity/Capability	25 Points Max
Accessibility of Firm & Staff	<u>10 Points Max</u>
	100 Points Max Total