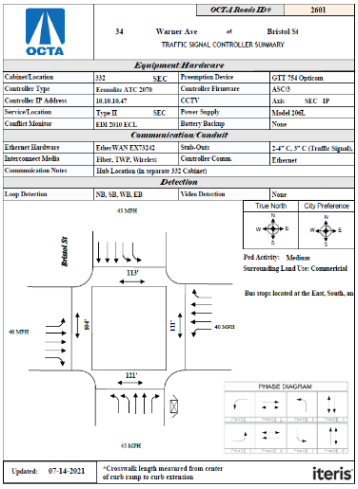
WHY ITERIS?

Iteris, owned by Almaviva Group, is the market leader in smart mobility infrastructure management since 1987. Iteris' 460+ staff have decades of expertise in traffic management, along with superior services and patented products that help detect, measure, and manage traffic and vehicular performance, minimize traffic congestion, enhance safety, and empower Iteris clients with solutions to better manage their transportation networks.

Iteris team members are experts in the fields of transportation planning, traffic engineering, traffic signal coordination and timing, corridor safety and operational analysis, intersection safety and operational analysis, traffic impact studies, and signing/pavement marking improvements. Iteris combines the knowledge of transportation planners, engineers, and software designers to offer an unmatched combination of talent and experience. Iteris was founded based on the principle of providing quality solutions on time and within budget, and is committed to advancing the transportation industry nationwide. Iteris staff apply in-depth knowledge to solve the most challenging problems associated with the movement of people and goods to enhance growing economies. Nationally, we have completed more than 3,000 traffic signal timing or synchronization projects, covering over 27,000 intersections across 20 states that are used to control traffic flow for 7,500+ road miles. In the Midwest, we have successfully delivered traffic signal work for local, county, and state agencies across Indiana, Illinois, Kansas, Missouri, and Ohio. Additionally, we have expanded our capabilities to include local safety action plan work in tandem with our national planning practice. Our continued growth reflects our reputation for providing high-quality, dependable traffic expertise.



General Qualifications

Iteris has extensive, relevant experience in traffic engineering, corridor studies, and safety evaluations, and has worked with several agencies throughout the Midwest. This section highlights key topic areas in which we specialize.

TRAFFIC ENGINEERING

- Signal System Selection, Design, Deployment, Operation and Coordination
- Bicycle Lane Design
- Bulb-outs Design
- Intersection Modifications
- Lighting Design
- Parking Design
- Traffic Simulation
- Pedestrian Crosswalk Enhancement
- Road Widening/Realignment
- Traffic Circles Planning/Design
- Traffic Control Plans
- Training and Research
- Warrant Studies

Iteris specializes in the design, evaluation, and operation of corridors, intersections, and arterials to improve the efficiency and safety of vehicular traffic flow, pedestrian mobility, transit operations, and bicycle traffic. Iteris has co-authored the industry standard **FHWA Traffic Control Systems Handbook** and has assisted multiple agencies throughout the U.S. in the development of signal operation standards. Our designs consider multimodal elements, both in the design and technology solutions. Recently, we have supported agencies that have upgraded their traffic signal systems to include Accessible Pedestrian Signals

(APS), aligning with the federal requirements for pedestrian accessibility. We frequently use tools like Synchro and SimTraffic for signal modeling work, VISSIM for microsimulation work involving corridor modeling, and other industry-standard tools that help compare alternatives.

ENGINEERING DESIGN

- Intersection Design Studies
- Signing and striping
- Signal design
- Traffic management plans
- Plans for ADA upgrades
- Plans for Guardrail upgrade
- Plans for fiber optic cables
- Plans for integration of traffic signal hardware and/or ITS devices

Iteris has extensive, relevant experience in design services for traffic engineering and Intelligent Transportation Systems projects. Our approach stems from a comprehensive understanding of traffic operations, and our engineers strive to provide cost-effective and problem-solving solutions within our signal planning and design. Iteris has extensive experiences in all stages of design development from signal system analysis, signing and striping design, master planning, preparation of Plans, Specifications, and Estimates (PS&E), hardware selection, and integration of hardware in the field. We utilize our equipment knowledge and experience to help municipalities implement the right solution for their needs.

TRANSPORTATION PLANNING AND TRAFFIC STUDIES

- Travel Demand Modeling and Forecasting
- Traffic Impact Analysis
- Bike Planning/Design
- Crash Analysis
- Corridor Studies
- Parking Studies
- Geographic Information Systems
- Land-Use Planning
- Master Plan Development
- Strategic Transportation Plans
- Traffic Operations Analysis

Every successful project begins with thorough planning, from site access studies for neighborhood commercial centers to route alignment studies for new rail corridors. Iteris understands the project development process and the importance of building public consensus in order to implement successful, long-term transportation solutions. Making correct decisions on planning, financing, and implementation of infrastructure decisions greatly depends on the development of solid and defensible travel demand forecasts. Iteris has a long history of performing Traffic Impact Studies across the country. These traffic studies typically analyze both external effects of the project as well as analysis of internal circulation and signal warrant analyses based on MUTCD requirements. We have experience of identifying impacts and potential mitigation measures, and have prepared cost estimates and engineering drawings for a variety of intersection and roadway improvements.

Iteris has led innovative bicycle- and pedestrian-related planning and design that involved roadway features like traffic calming, active transportation, and complete streets. These projects are usually safety driven in response to the concerns about lack of bicycle or pedestrian facilities, as well as speeding issues. Iteris' recommendations include both specific projects and systemic improvements. Examples include the addition of bike lanes, enhanced intersection treatment for bicycle and pedestrian, upgrade of signage, deployment of warning flashers, and modifying striping to reduce conflicts between bicycles and parked vehicles.

TRAFFIC SAFETY ANALYSIS AND PLANNING

- Safety Action Plans
- Corridor studies for safety improvements
- Vulnerable Road User Treatments
- Speed Limit Assessments
- Near-Miss Analysis
- Intersection safety improvements

Iteris staff have prepared safety solutions through careful, stakeholder-driven planning work and through engineering improvements that consider the impacts to all road users. We recognize that good mobility cannot exist without personal safety and are strong advocates of the Safe System Approach that recognizes humans make mistakes and that safety is both proactive and a shared responsibility. We are currently involved in safety studies across the infrastructure lifecycle, from SS4A grant-funded safety action plans to engineering design solutions to operational analyses that treat emerging safety issues.

TRAFFIC SIGNAL TIMING

- Signal timing/coordination analysis
- Inter-jurisdictional and regional traffic signal coordination optimizations
- Traffic signal phasins
- Development of arterial traffic calming measures
- Transit Signal Priority (TSP) timing
- Vehicular and pedestrian safety
- Ongoing operations and maintenance
- Construction assistance
- Training

Iteris excels in the assessment of existing traffic signal timing operations to improve the efficiency and safety of vehicular traffic flow, pedestrian mobility, transit operations and bicycle traffic. **Iteris has designed, deployed, or equipped over 1/3 of the signalized intersections in the United States.** Iteris continues to innovate in developing advanced solutions to complex problems with traffic operations. Iteris has extensive experience successfully completing numerous signal timing optimization projects in Missouri and throughout the country.

Project Qualifications and References

REFERENCE CONTACT	DESCRIPTION OF SERVICES PROVIDED	
Raymond Webb Mid-America Regional Council Phone: (816) 701-8358 rwebb@marc.org	**MARC OPERATION GREEN LIGHT, KCMO SIGNAL TIMING AND ENGINEERING SERVICES (2020 – Present)** **Iteris** currently provides traffic engineering and traffic signal timing services to Mid-America Regional Council (MARC) for the Operation Green Light Program. Iteris responsibilities mainly include two tasks: (a) Signal Coordination and Timing studies (data collection, data analysis in Synchro /SimTraffic, timing plan development, implementation through TransSuite TCS or manually, fine-tuning of signal timings on the field and evaluation through ATSPM platforms) and (b) Various Traffic Engineering studies. This work includes coordination with both the Missouri and Kansas Departments of Transportation (MoDOT and KDOT) along with 28 other local agencies in the region.	

REFERENCE CONTACT	DESCRIPTION OF SERVICES PROVIDED
Nick Butler, PE Traffic Design Unit Chief IDOT District One Phone: (847) 705-4420 Nicholas.Butler@illinois.gov	**TRAFFIC DESIGN PROJECT MANAGEMENT SERVICES, IDOT DISTRICT 1 (2021 – Present)** For this project, **Iteris** provided Traffic Design Project Management Services to IDOT District 1. This project leveraged Iteris' working knowledge of current industry standards and guidelines pertaining to accessible facilities that will bring IDOT into compliance with the latest MUTCD and Americans with Disabilities Act (ADA) requirements. Iteris designed and reviewed the region's accessible pedestrian equipment in compliance with current ADA requirements, prepared special provisions, and provided cost estimates.
Phoebe Wu, PE, PTOE Chief of Traffic Operations Kane County Division of Transportation Phone: (630) 208-3139 wuphoebe@co.kane.il.us	**TRAFFIC SIGNAL OPERATIONS MANAGEMENT, KANE COUNTY DOT (2018 – Present)** For this project, **Iteris** staff performed weekly monitoring of traffic signals systems and detector diagnostics, coordinated Electrical Maintenance Contracts (EMC), and performs on-call construction inspection for traffic signal projects (maintenance transfers, turn-ons, and periodic inspections) for the Kane County Division of Transportation. The traffic team investigated and resolved complaints, conducted Signal Coordination and Timing studies, performed plan/catalog cut review, developed equipment specifications and recommendations, and prepared traffic signal plans for work performed by electrical maintenance contractors.
Mike Armour, PE City of Wichita, KS Phone: (316) 734-8506 marmour@wichita.gov	**WICHITA SIGNAL TIMING, ITS DESIGN, AND SYSTEMS INTEGRATION (2021 – Present)** To improve traffic management capabilities, **Iteris** is assisting the City of Wichita with an evaluation of traffic signal and communications system equipment and provide signal timing optimization services. The project includes operations and infrastructure improvements at 90 intersections in the City of Wichita's downtown area. In addition to generating recommendations for hardware upgrades, communication improvements, and synchronized timing plans in this study area, the project also includes updates to the City's standards and procedures pertaining to signal timing. Training is provided to ensure all procedures are understood by City staff. Iteris is also conducting PS&E for a downtown corridor including replacing controllers, adding detection, and wireless communication in advance of a future fiber optic deployment.
Deborah Fehr City Of San Ramon, CA Phone: (925) 973-2657 dfehr@sanramon.ca.gov	**ON-CALL TRAFFIC ENGINEERING AND TRANSPORTATION PLANNING CONSULTING SERVICES (2017 – Present)** **Iteris** has been providing on-call traffic engineering and planning services to the City of San Ramon since 2017. Iteris has supported the City with various tasks including transportation planning, traffic safety analysis, traffic signal planning and design, and communications design and implementation. Highlights of these services include: • Developed the City's LRSP which identifies and organizes the City's local roadway safety improvement needs and is the basis for the City's ongoing traffic safety projects. This LRSP is also a requirement to apply for future HSIP funds. • Performed ad-hoc traffic engineering analysis for citizen requests, including performing safety analysis, signal warrant analysis, and other MUTCD-related evaluations of the City's traffic network. • Prepared PS&E for a communications improvement project outlined in the City's ITS Master Plan document.