



DATE: December 3, 2024

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Adopt a Resolution Authorizing the City Manager to execute an agreement with Iteris, Inc., in the amount of \$132,814 to purchase video detection systems for Tennyson & Winton Signal Timing Upgrade Project No. 05342

RECOMMENDATION

That Council adopts a resolution (Attachment II) authorizing the City Manager to execute an agreement with Iteris, Inc., (Iteris) to purchase video detection systems for a total of 6 intersections on Tennyson Road and Winton Ave corridors as part of Tennyson & Winton Signal Timing Upgrade Project No. 05342.

SUMMARY

The City was awarded \$515,000 from the Bay Area Air Quality Management District under the Transportation Fund for Clean Air (TFCA) to implement adaptive signal control technology and other related infrastructure improvements to the Winton Avenue/D Street and Tennyson Road corridors. Iteris video detection systems are recommended to be installed along these corridors to supplement adaptive signal control technology.

BACKGROUND

In August of 2023, City staff applied for TFCA funding for an amount of \$515,000 with a local contribution of \$297,000 for a total of \$812,000. The project scope includes adaptive signal control systems, fiber communications, and video detection technology on Winton Ave/D Street from Santa Clara Street to Atherton Street and Tennyson Road from Sleepy Hollow Road to Dixon Street. This project, along with the TFCA 2023-24 program, was approved by the Alameda County Transportation Commission (ACTC) on December 7, 2023. On December 12, 2023¹, Council adopted a resolution to execute a funding agreement between the City and ACTC.

¹ <https://hayward.legistar.com/LegislationDetail.aspx?ID=6448361&GUID=B59E9DC5-130D-4037-A00A-4440CF1CD42E&Options=&Search=>

DISCUSSION

To support the adaptive signal control system, video detection technology was selected to be implemented on Winton Avenue at Santa Clara Street, Amador Street, and Myrtle Street, as well as on Tennyson Road at Dixon St, Tampa Avenue, and Sleepy Hollow Avenue. These intersections were chosen to be upgraded from loop induction detectors to video detection to ensure the adaptive system will detect vehicles accurately and that the adaptive signal technology will work as intended.

Iteris video detection systems were chosen for this project due to the City staff's existing familiarity with the equipment and that it is the only video detection system that has been implemented in the City. Installation is scheduled to be in two phases. The first phase is for the three Tennyson Road intersections, which was completed in September 2024. The second phase is for the three Winton Avenue intersections. The three quotes for Iteris video detection systems were received for the first phase, with details below:

- Iteris, Inc.: \$66,406.81
- DC Electric Group, Inc.: \$101,430
- Jam Services, Inc.: \$88,200

Iteris was chosen for the first phase based on the lowest pricing, and the video detection systems have been purchased and installed at the three Tennyson Road intersections. For the second phase, Iteris also provided a quote at the same pricing, resulting in a total cost of \$132,814 for six intersections on Winton Ave and Tennyson Road. As this cumulative total cost is over the threshold of \$100,000, Council approval is requested to execute an agreement with Iteris, Inc. to purchase video detection systems for the remaining three Winton Avenue intersections.

ECONOMIC IMPACT

The video detection system will support adaptive signal controls, which optimize signal timing and reduce travel times. This technology will improve mobility, and reduce congestion, thus maintaining the region's economic competitiveness for the residents and employees in the City.

FISCAL IMPACT

There is no impact to the General Fund. On December 12, 2023², Council accepted and appropriated grant funding from the Alameda County Transportation Commission for the Winton Ave/D Street and Tennyson Road Corridors Signal Timing Project, and for the

² <https://hayward.legistar.com/LegislationDetail.aspx?ID=6448361&GUID=B59E9DC5-130D-4037-A00A-4440CF1CD42E&Options=&Search=>

construction of Traffic Signal Infrastructure and implementation of Adaptive Signal Timing. The previously accepted and appropriated funding will cover the cost of this system.

STRATEGIC ROADMAP

This agenda item supports the Strategic Priority of Combat Climate Change. This item is not specifically identified in the Strategic Roadmap. However, adaptive signal timing has been shown to reduce greenhouse gas emissions.

SUSTAINABILITY FEATURES

The video detection system does not have sustainability features. However, it will support the adaptive signal control which will result in smoother traffic flow and reduced vehicle idling along Winton Ave/D Street and Tennyson Road corridors, resulting in reduced fuel consumption and reduced greenhouse gas emissions.

PUBLIC CONTACT

No public contact has been made related to this agenda item.

NEXT STEPS

If Council approves this request, the City Manager will execute an agreement with Iteris, Inc., in the amount of \$132,814 to purchase video detection systems.

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Recommended by: Alex Ameri, Director of Public Works

Approved by:



Dustin Claussen, Interim City Manager