

City of Hesperia STAFF REPORT



DATE: June 2, 2026

TO: Mayor and Council Members

FROM: Rachel Molina, City Manager

BY: Cassandra Sanchez, Director of Public Works/City Engineer
Tina Souza, Senior Project Manager

SUBJECT: Authorize Contract for the Main Street Traffic Signal Synchronzation Project – Phase II, C.O. No. 7133

RECOMMENDED ACTION

It is recommended that the City Council:

1. Authorize a contract for the purchase and installation of equipment from Rhythm Engineering in the amount of \$151,400 plus a 10 % contingency of \$15,140 for a total contract amount of \$166,540 for the Main Street Traffic Signal Synchronization Project – Phase II, C.O. No. 7133; and
2. Authorize the City Manager and/or designee to execute the contract and any other necessary documents thereto.

BACKGROUND

The goal of the adaptive traffic signal system is to reduce commute times, improve traffic flow, reduce harmful vehicle emissions, and enhance the quality of life for Hesperia residents by utilizing advanced signal timing, coordination, and communication technologies to monitor and optimize traffic operations along the Main Street corridor.

The Main Street Traffic Signal Synchronization project, Phase II, C.O. No. 7133 (Project) and related expenses were approved by the City Council on July 16, 2019. Cabinet upgrades and system installation occurred; however, the Project experienced significant delays due to COVID. The Project was further impacted by the Caltrans Interstate 15 (I-15) improvements. Consequently, the project was placed on hold before continuous adaptive learning and system optimization could occur.

ISSUES/ANALYSIS

Completion of the Project requires the purchase and installation of equipment at the intersections of the I-15 on/off ramps at Main Street and in the controller cabinets within the corridor. Because the adaptive traffic signal system is from Rhythm Engineering, they are the sole source for the equipment necessary for proper operation.

The unanticipated delays affected the timing of the system's learning abilities and final implementation and coordination efforts with Caltrans District. Currently, equipment installation on Caltrans' new traffic signals is required, along with other miscellaneous ancillary equipment the system relies on for proper operation. Coordination with Caltrans will continue until the system is operating at full optimization.

Once the Rhythm Engineering system is complete, Rhythm Engineering, in coordination with City Staff and Caltrans, will conduct system training.

Approval of the equipment purchase and installation of the equipment will allow the City to finalize implementation of the adaptive traffic signal system in this congested segment and improve traffic operations along the Main Street corridor.

CITY GOAL SUPPORTED BY THIS ITEM

Capital Improvement – Continually evaluate capital improvement priorities.

FISCAL IMPACT

Funding for the Project is budgeted in the approved Fiscal Year 2025-26 Capital Improvement Program.

ALTERNATIVE(S)

1. Provide alternative direction to staff.

ATTACHMENT(S)

None