



Agenda Item

Orange City Council

Item #: 3.7.

6/9/2026

File #: 26-0220

TO: Honorable Mayor and Members of the City Council

THRU: Jarad Hildenbrand, City Manager

FROM: Christopher Cash, Public Works Director

1. SUBJECT

Adoption of four projects into the Capital Improvement Plan; acceptance and appropriation of \$1,628,550 in designated grant funding from the California Department of Transportation; and appropriation of \$180,950 in local matching funds

2. SUMMARY

The City applied for and received state funding for four highway safety improvement projects: installation of flashing beacons at four school pedestrian crossings, bike lane striping enhancements, upgrades to existing traffic signal indication heads, and installation of roadway edgelines. To move the projects forward, City Council must accept the funding and approve the related budget appropriations.

3. RECOMMENDED ACTION

1. Adopt the following four projects into the City's Capital Improvement Plan:

- 265125 Flashing Beacon Installation at Four School Crossings
- 265126 HSIP Bike Lane Enhancements
- 265127 Signal Head Indication Upgrades
- 265128 Edgeline Striping Installation at Various Locations

2. Accept into the City's Reimbursable Capital Projects (550) revenue budget \$1,628,550 in grant funding from the California Department of Transportation to:

- 550-5703-43201-265125 Flashing Beacon Installation at Four School Crossings
\$349,740
- 550-5703-43201-265126 HSIP Bike Lane Enhancements \$349,920
- 550-5703-43201-265127 Signal Head Indication Upgrades \$661,320
- 550-5703-43201-265128 Edgeline Striping Installation at Various Locations
\$267,570

3. Authorize the appropriation of \$1,628,550 into Reimbursable Capital Projects (550):

- 550-5703-87101-265125 Flashing Beacon Installation at Four School Crossings
\$349,740
- 550-5703-87102-265126 HSIP Bike Lane Enhancements \$349,920
- 550-5703-87101-265127 Signal Head Indication Upgrades \$661,320

550-5703-87102-265128	Edgeline Striping Installation at Various Locations	\$267,570
4.	Authorize the appropriation of \$180,950 from the Measure M-Traffic Improvement (263) unreserved fund balance to:	
263-5703-87101-265125	Flashing Beacon Installation at Four School Crossings	\$38,860
263-5703-87102-265126	HSIP Bike Lane Enhancements	\$38,880
263-5703-87101-265127	Signal Head Indication Upgrades	\$73,480
263-5703-87102-265128	Edgeline Striping Installation at Various Locations	\$29,730

4. FISCAL IMPACT

The expense for these projects is \$1,809,500 and will be funded through Reimbursable Capital Projects (550) and Measure M-Traffic Improvement (263) respectively:

Flashing Beacon Installation at Four School Crossings

550-5703-87101-265125 \$349,740

263-5703-87101-265125 \$38,860

HSIP Bike Lane Enhancements

550-5703-87101-265126 \$349,920

263-5703-87102-265126 \$38,880

Signal Head Indication Upgrades

550-5703-87101-265127 \$661,320

263-5703-87102-265126 \$73,480

Edgeline Striping Installation at Various Locations

550-5703-87101-265128 \$267,570

263-5703-87102-265128 \$29,730

Upon approval of this appropriation, the estimated Measure M-Traffic Improvement (263) unreserved fund balance as of June 30, 2026, will be \$6.7 million.

5. STRATEGIC PLAN GOALS

Goal 5: Improve Infrastructure, Mobility, and Technology

6. DISCUSSION AND BACKGROUND

The City has experienced tremendous success in applying for Highway Safety Improvement Program (HSIP) funds over the past 15 years. In 2024, the California Department of Transportation (Caltrans) issued a call for projects to fund improvements that aim to reduce fatalities and serious injuries on local roadways. In response to this call, staff nominated four projects for consideration in September 2024. All were awarded state funding. A brief description of each project is provided below.

Flashing Beacon Installation at Four School Crossings

Rapid rectangular flashing beacons (RRFBs) will be installed at four pedestrian crossings adjacent to

schools. These locations currently have marked crosswalks: two along Shaffer Street, one on Walnut Avenue, and one on Rancho Santiago Boulevard. This project will feature, among other things, refurbishing high visibility crosswalk markings, installation of pedestrian activated RRFBs, installation of curb ramps, and related roadway signage. Providing for RRFBs is expected to make the affected school crossings more pedestrian-friendly.

HSIP Bike Lane Enhancements

The proposed project will install Class II (striped, in roadway) bike lanes with green-painted conflict zones along four different roadway segments. The Circulation and Mobility Element of the General Plan guides the development of a connected, citywide network of Class I, II, and III bikeways that facilitates commuter and recreational cycling throughout the community. This project will implement planned Class II bike lanes identified in the General Plan, along portions of Glassell Street, Fletcher Street, Main Street, and Canyon View Avenue. The addition of designated bike lanes and green conflict markings are expected to enhance cyclist visibility and comfort, improve connectivity throughout the city, and strengthen regional bicycle access to neighboring communities.

Signal Head Indication Upgrades

The City completed a Local Roadway Safety Plan (LRSP) in 2023 that evaluated five years of collision data across the City's roadway network to identify locations where targeted safety improvements could reduce crash risk. Through this analysis, the LRSP identified intersections where enhancements such as enlarging existing 8-inch (diameter) traffic signal indications to 12-inch indications, and installing yellow retroreflective backplates could improve signal visibility for motorists, particularly during nighttime and low-light conditions. As a result, 28 signalized intersections throughout the city were selected for visibility enhancements, including upgrading to larger signal indication heads, installation of yellow retroreflective backplates, or a combination of both treatments.

Edgeline Striping Installation at Various Locations

This project will install striped edgelines (shoulder stripes) along 12 street segments totaling approximately 8.5 miles of roadway within the City. Among other benefits, edgelines can be effective traffic calming features as they tend to narrow the perceived width of the travel lanes. The selected segments consist primarily of two-lane and four-lane undivided roadways, many with wider curbside lanes and on-street parking. The installation of edge lines is expected to better define travel lanes and visually narrow the roadway, which can encourage lower vehicle speeds. Edgelines can be especially beneficial in areas with unmarked curbside parking, as the delineation can encourage more separation between moving and parked vehicles.

This particular cycle of the HSIP funds projects at 90%, with the city required to provide a 10% local match. The total value of the four projects is \$1,809,500, of which \$1,628,550 is funded through the grant. The local match of \$180,950 that the city must provide for can be appropriated from Measure M- Traffic Improvement (263) unreserved fund balance. Project design activities are expected to begin in summer of 2026.

7. ATTACHMENTS

- Attachment 1 - Flashing Beacon Installation at Four School Crossings Vicinity Map
- Attachment 2 - HSIP Bike Lane Enhancements Vicinity Map

- Attachment 3 - Signal Head Indication Upgrades Vicinity Map
- Attachment 4 - Edgeline Striping Installation at Various Locations Vicinity Map