

AGENDA ITEM 1 H
Consent Item

MEMORANDUM

DATE: December 7, 2017

TO: El Dorado County Transit Authority

FROM: Christine Parker, Safety Coordinator

SUBJECT: Collision Avoidance System Capital Improvement Plan Project

REQUESTED ACTION:
BY MOTION,

**Adopt Capital Improvement Plan Project, 18-05 for a Collision
Avoidance System (CAS)**

BACKGROUND

On November 7, 2006 California voters approved as Proposition 1 B, the Highway Safety, Traffic Reduction, Air Quality and Port Security Bond Act of 2006. Proposition 1B includes transit funding in the California Transit Security Grant Program, California Transit Assistance Fund (CTSGP-CTAF). The funds for transit system safety, security and disaster response through California Emergency Management Agency (Cal EMA) has been granted to assist in the procurement of a Collision Avoidance System (CAS).

On April 6, 2017, the Board of Directors adopted Resolution 17-16 authorizing the Executive Director to execute all documents for the (FY) 2016/17 Proposition 1B, California Transit Security Grant Program, California Transit Assistance Fund for the purchase and installation of the CAS into all revenue service vehicles.

The Bylaws of the El Dorado County Transit Authority require submission of a preliminary capital budget on or before the March meeting of each year; the Board shall adopt a preliminary capital budget by April 15 of each year. Final budgets are to be submitted to the Board on or before June 15 of each year. Final capital budget shall be adopted by the Board on or before July 15 of each year.

DISCUSSION

The El Dorado County Transit Authority Capital Improvement Plan Fiscal Year 2017/18 (CIP 2017/18) was adopted on May 4, 2017.

Absent from this plan is the project to provide vehicles with a CAS with the assistance of a grant from CTSGP-CTAF for transit system safety, security and disaster response through Cal EMA.

El Dorado Transit provides transportation within El Dorado and Sacramento counties in a variety of hazardous traffic conditions. The installation of a CAS will enhance the safety of the general public, transit passengers and minimize damage to transit vehicles. It is also known as a pre-crash system, forward collision warning system, or collision mitigating system. It uses radar (all-weather) and sometimes laser and camera(s) (employing image recognition) to detect an imminent collision and provide a warning to the driver to take evasive action. A CAS will not replace the skill of a driver, but provide assistance to the driver to minimize collisions.

It is the intent of CIP 18-05 to outfit all revenue vehicles with the CAS, however due to a potential shortfall in State Transit Assistance funding staff may need to prioritize which vehicles will get the CAS based on an internal risk assessment.

FISCAL IMPACT

<i>COST SUMMARY (ESTIMATE)</i>	<u>Proposed Budget</u>
Collison Avoidance System	\$234,350
Contingency 10%	<u>\$ 23,435</u>
<i>Total Project Cost</i>	\$257,785

FUNDING SOURCE

California Transit Security Grant Program- California Transit Assistance Fund (CTSGP-CTAF)(Proposition 1B) (California) FY 16/17	\$ 99,000
State Transit Assistance (STA)	<u>\$ 158,785</u>
<i>Total Revenue</i>	\$ 257,785

Collision Avoidance System

Project No. 18-05

The El Dorado County Transit Authority (El Dorado Transit) provides transportation within El Dorado and Sacramento counties in a variety of hazardous traffic conditions. Drivers engage in numerous hours of training throughout their employment on proper mirror usage and blind spot awareness to help reduce if not eliminate, the likelihood of being involved in collision with vehicles, bicyclists and pedestrians. Operating in urban environments, the risks significantly increase for potential pedestrian and bicycle conflicts.

The installation of a Collision Avoidance System (CAS) will enhance the safety of the general public, transit passengers and minimize damage to transit vehicles. It is also known as a pre-crash system, forward collision warning system, or collision mitigating system. It uses radar (all-weather) and sometimes laser and camera(s) (employing image recognition) to detect an imminent collision and provide a warning to the driver to take evasive action. A CAS will not replace the skill of a driver, but provide assistance to the driver to minimize collisions.

COST SUMMARY (ESTIMATE)

	<u>Proposed Budget</u>
Collision Avoidance System	\$234,350
Contingency 10%	<u>\$ 23,435</u>
<i>Total Project Cost</i>	\$257,785

FUNDING SOURCE

California Transit Security Grant Program- California Transit Assistance Fund (CTSGP-CTAF)(Proposition 1B) (California) FY 16/17	\$ 99,000
State Transit Assistance (STA)	<u>\$ 158,785</u>
<i>Total Revenue</i>	\$ 257,785