









Fiscal Year 2018/19

Capital Improvement Plan

June 7, 2018

Prepared by: El Dorado County Transit Authority

6565 Commerce Way

Diamond Springs, CA 95619

(530) 642-5383

www.eldoradotransit.com

Table of Contents

12-06 (6) Western Placerville Interchange (WPI) – Park and Ride Project	4
13-05 Maintenance Facility Equipment	5
14-03 Metal Fabrication Tools	6
15-08 Park-and-Ride Parking Lot Maintenance	7
17-02 (2) Vehicle Replacement – Commuter	8
17-03 Bus Stop Improvements with new Shelter and Amenities on Broadway, Placerville	9
17-05 Maintenance Facility – Safety and Equipment	10
18-01 (2) Moderate Improvements to Administration Building	11
18-02 Bus Shelters Amenities	12
18-04 (2) Vehicle Replacement	13
18-05 (2) Collision Avoidance System	14
18-06 (2) Radio System	15
18-07 Fare Boxes	16
19-01 IT Upgrade and Replacement 5-year plan	17
19-02 (2) Pollock Pines Safeway Bus Stop Improvements	18
19-03 Administration Building Safety Improvements	19
19-04 (2) Vehicle Replacement – Demand Response	20
19-05 Administration / Maintenance Facility Equipment	21
Capital Improvement Plan Budget	22

EL DORADO COUNTY TRANSIT AUTHORITY CAPITAL IMPROVEMENT PLAN FISCAL YEAR 2018/2019

EL DORADO COUNTY TRANSIT AUTHORITY

CAPITAL IMPROVEMENT PLAN

The El Dorado County Transit Authority (El Dorado Transit) maintains a fleet of large, medium and small buses, minivans and sedans. Fleet vehicles are utilized in the delivery of public transportation; for administrative support travel; staff development training; on-going public outreach travel and maintenance of transit facilities such as bus stops and park-and-ride lots. The Capital Improvement Plan is designed to address the financial investment required to maintain the fleet and facilities owned or leased by El Dorado Transit. Continuing the current level of service and managing the potential expansion of service will succeed only if adequate consideration is given to capital needs.

The <u>Capital Improvement Plan</u> is a planning document setting goals with realistic revenue projections. Vehicle replacement is a component of the <u>Capital Improvement Plan</u>. This annual planning process maximizes available funding for capital investments necessary to provide public transportation at the current level of service and efficient management of the expansion of public services.

As a financial management tool, the <u>Capital Improvement Plan</u> is prepared to take full advantage of capital funding programs, avoid large annual claims against local transportation funds for capital expenditures and to assure capital reserves are available in case annual capital revenue sources diminish or are not consistent. <u>Capital Improvement Plan</u> funding is available for full replacement cost and provides local match funding required for capital grant programs.

California public transit operators have several sources of capital funding available. Each funding source has differing criteria for eligible projects. Bus replacement funding is the most challenging capital funding for public transit operators.

The <u>Capital Improvement Plan</u> and Capital Budget for 2018/19 identify funding transit capital projects with; Public Transportation Modernization Improvement and Service Enhancement Account (PTMISEA) funds, California Transit Security Grant Program - California Transit Assistance Funds (CTSGP-CTAF), deferred State Transit Assistance (STA) funds, Federal Transit Administration (FTA) Section 5307 funds, Federal Transit Administration (FTA) Section 5339 funds, Congestion Mitigation and Air Quality (CMAQ) funds and through public financing.

The <u>Capital Improvement Plan</u> includes a summary of projects and funding sources; the budget and project descriptions.

Western Placerville Interchange (WPI) – Park and Ride Project

Project No. 12-06 (6)

COST SUMMARY (ESTIMATE)

All work related to the full build out of a Park and Ride lot within the Western Placerville Interchange (WPI).

The El Dorado County Transit Authority Park-and-Ride Facilities Master Plan, August 2009 contemplates the rough grading for two (2) Future Park and ride facilities within the Western Placerville Interchanges project.

Environmental review will be incorporated in the City of Placerville scope of a supplemental Environmental Impact Report (EIR).

Potential 150 +/- will be located between the off ramp and Forni Road

Total Project Cost Engineers Estimate for full park and ride build out is \$2,230,000.

Adopted

	<u>Budget</u>
Western Placerville Interchange Park & Ride Total Project Cost	\$2,865,620 \$2,865,620
FUNDING SOURCES	
FY 2010/11 Public Transportation Modernization, Improvement, and Service Enhancement Program	
(PTMISEA)	\$1,270,620
2013/14 Congestion Mitigation and Air Quality (CMAQ)	\$1,100,000
Public Transportation Modernization,	
Improvement, and Service Enhancement	
Account (PTMISEA) FY (10/11)	\$ 160,000
State Transit Assistance (STA)	\$ 335,000
Total Revenue	\$2,865,620

Maintenance Facility Equipment

Maintenance Facility

Project No. 13-05

The El Dorado County Transit Authority (El Dorado Transit) operates a maintenance facility to repair and maintain all fleet vehicles excluding major body repairs, paint and windshield installation. With the addition of the larger MCI Motor Coach busses, current tools and scaffolding type platform and lifts are needed to safely access the vehicles.

Also included in this project will be the purchase of a TIG welder.

This capital project will allow for the purchase of the following equipment;

- Socket Driver, T80
- Tank Top Lift, 13ft.
- Work Platform, 7 step
- Base Wide Aluminum Scaffold

COST SUMMARY (ESTIMATE)	Adopted Budget
Maintenance Facility Equipment Contingency 10% Total Project Cost	\$22,500 <u>\$ 1,125</u> \$23,625
FUNDING SOURCES	
State Transit Assistance (STA) Total Revenue	\$23,625 \$23,625

Metal Fabrication Tools

Maintenance Facility

Project No. 14-03

The El Dorado County Transit Authority (El Dorado Transit) operates a maintenance facility to repair and maintain all fleet vehicles excluding major body repairs, paint and windshield installation. The facility includes three (3) large bays and repair stations.

When a bus receives body damage maintenance staff contacts vendors to perform work. The acquisition of a vertical band saw, foot sheer, sheet metal brake, plasma cutter, heavy duty work benches and combination belt and disc sander allows staff to perform the fabrication of metal panels significantly reducing body damage repair costs.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Vertical Band Saw Foot Shear Sheet Metal Brake Plasma Cutter Heavy Duty Work Benches	\$3,604 \$1,723 \$1,095 \$1,590 \$1,464
Combination Disc Sander 10% Contingency Total Project Cost	\$1,380 \$1,087 \$11,942
FUNDING SOURCE	
State Transit Assistance (STA) Total Revenue	\$11,942 \$11,942

Park-and-Ride Parking Lot Maintenance

Project No. 15-08

The El Dorado County Transit Authority (El Dorado Transit) utilizes and maintains several Park-and-Ride locations throughout El Dorado County. General maintenance is done on a regular basis including landscaping services.

Normal wear and tear on these locations requires larger projects such as re-striping, asphalt repairs, curb repairs and other items on an as needed basis.

Included within this project element will be the needs of the El Dorado Hills Theater temporary parking lot.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Park-and-Ride Parking Lot Maintenance	\$250,000
Total Project Cost	\$250,000
FUNDING SOURCE	
State Transit Assistance (STA)	\$250,000
Total Revenue	\$250,000

<u>Vehicle Replacement – Commuter</u>

Project No. 17-02 (2)

The El Dorado County Transit Authority (El Dorado Transit) is part to a joint-procurement contract with the city of Fairfield and Yuba-Sutter Transit.

El Dorado Transit currently has five (5) 40' Bluebird commuter buses that are no longer being supported by the manufacturer.

El Dorado Transit is participating in a joint-procurement contract with the City of Fairfield and the Yolo County Transportation District. This agreement was approved by El Dorado Transit Board on November 7, 2017.

FIVE (5) 40' BLUEBIRD BUSES

EDCTA#	Vehicle Type	Mileage
		As of 03/16/18
0601	2006 BlueBird Bus	226,154
0602	2006 BlueBird Bus	276,738
0603	2006 BlueBird Bus	245,813
0604	2006 BlueBird Bus	193,250
0605	2006 BlueBird Bus	185,418

COST SUMMARY (ESTIMATE)

	Adopted Budget
Total Project Estimate	\$3,000,000 \$3,000,000
	Total Project Estimate

FUNDING SOURCES

Five (5) Year Lease Purchase	\$1,200,000
Federal Transit Administration (FTA) Section 5307	\$ 693,430
Federal Transit Administration (FTA) Section 5339	\$ 800,000
State Transit Assistance (STA)	\$ 306,570
Total Revenue	\$3,000,000

Bus Stop Improvements with new Shelter and Amenities on Upper Broadway, Placerville

Project No. 17-03 (2)

The El Dorado County Transit Authority (El Dorado Transit) operates a local fixed route service in the City of Placerville that includes stops on Broadway. Currently one (1) stop meets design standards on the south side.

El Dorado Transit recommends an advertising shelter with a schedule holder. This would meet El Dorado Transit design standards. The advertising program managed by El Dorado Transit provides shelter and bus stop maintenance and miscellaneous revenue. The shelter maintenance is performed by the third party advertising contractor saving the El Dorado Transit resources (staff time and funding).

Project will include the build-out of a bus turnout and the acquisition and installation of bus shelter, waste receptacle, wall schedule, tax, delivery and solar power if required.

COST SUMMARY (ESTIMAT	TE)	Adopted <u>Budget</u>
Bus Stop Improvemen	nts	\$356,864
Contingency 10%		\$ 35,686
	Total Project Cost	\$392,550
FUNDING SOURCE		
State Transit Assistan	ce (STA)	\$392,550
	Total Revenue	\$392,550

Maintenance Facility - Safety and Equipment

Project No. 17-05

The El Dorado County Transit Authority (El Dorado Transit) operates a maintenance facility to repair and maintain all fleet vehicles excluding major body repairs, paint and windshield installation. The facility includes three (3) large bays and repair stations to allow for multiple repairs to occur simultaneously.

It has been identified that several projects can be made to increase productivity as well as the addition of safety equipment.

COST SUMMARY (ESTIMATE)		Adopted
		<u>Budget</u>
Cable Harness System		\$10,000
Oil Tank Relocation		\$ 3,000
Opacity Testing Machine		\$10,000
Pallet Racking System		\$25,000
Contingency (10%)		\$ 4,800
	Total Project Cost	\$52,800
FUNDING SOURCES		
State Transit Assistance (ST	TA)	\$52,000
	Total Revenue	\$52,000

Moderate Improvements to Administration Building

Project No. 18-01 (2)

Currently the gutter system on the administration building has the water from the roof drain directly onto the back cement pad area at the rear of the building. This needs to be redirected to prevent possible hazards.

There are numerous exterior incandescent lights around the administration building and the Central park and ride needing to be replaced with efficient LED lighting.

The vehicle entry gate into the bus parking lot malfunctions periodically due to a poor design and needs to be replaced.

There is a small cement pad on the west end of the administration building that needs to be expanded to allow for a small shed to house a vault wagon when not in use. The wagon currently is placed in the break room.

Additional maintenance projects as needed for FY 2018/19.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Admin Building Improvements	\$150,000
10% Contingency	\$ 15,000
Total Project Cost	\$165,000
FUNDING SOURCE	
State Transit Assistance (STA)	<u>\$165,000</u>
Total Revenue	\$165,000

Bus Shelters Amenities

Project No. 18-02

El Dorado Transit staff is looking towards improving the amenities for current and future bus stop locations. In order to meet the needs in a timely manner, this project would allow for the purchase and planning of amenities such as shelters, benches, waste receptacles and solar energy panels etc.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Admin Building Improvements	\$150,000
10% Contingency	\$ 15,000
Total Project Cost	\$165,000
FUNDING SOURCE	
State Transit Assistance (STA)	\$165,000
Total Revenue	\$165,000

Vehicle Replacement

Services: Local Fixed Route Bus Replacement

Project No. 18-04 (2)

El Dorado Transit is applying for a Federal Transit Administration (FTA) Section 5339 grant for the purchase of six (6) low-floor clean diesel transit buses for fiscal year 2017/18. These buses will replace the current fleet of 35' BlueBird brand buses that are no longer supported by the manufacturer.

FIVE (5) 35' BLUEBIRD BUSES

EDCTA#	Vehicle Type	Mileage
		As of 08/18/17
0606	2006 BlueBird Bus	208,434
0607	2006 BlueBird Bus	267,694
0608	2006 BlueBird Bus	219,197
0609	2006 BlueBird Bus	351,641
0610	2006 BlueBird Bus	326,018

COST SUMMARY (ESTIMATE)	Adopted Budget
Six (6) Low-Floor Clean Diesel Transit Buses <i>Total Project Cost</i>	\$ 2,800,000 \$ 2,800,000
FUNDING SOURCES	
Pending Funding	\$ 2,380,000
State Transit Assistance (STA)	\$ 420,000
Total Revenue	\$ 2,800,000

Collision Avoidance System

Project No. 18-05 (2)

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 precrash 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 (ESTIM	MATE)	Adopted Budget
Collison Avoidance	e System	\$234,350
Contingency 10%		\$ 23,435
	Total Project Cost	\$257,785

FUNDING SOURCE

Proposition 1B
California Transit Security Grant ProgramCalifornia Transit Assistance Fund
(CTSGP-CTAF)(Proposition 1B) (California)
FY 15/16
\$124,854
State Transit Assistance (STA)
\$132,931
Total Revenue
\$257,785

Radio System

Project No. 18-06 (2)

The El Dorado County Transit Authority (El Dorado Transit) utilizes a radio system to communicate between dispatch personnel and bus drivers. This project will upgrade the radio system to improve range and performance to cover all areas of bus service.

COST SUMMARY (ESTIMATE)		Adopted Budget
Radio System		\$100,210
Contingency 10%		\$ 10,021
	Total Project Cost	\$110,231

FUNDING SOURCES

Proposition 1B
California Transit Security Grant Program California Transit Assistance Fund
(CTSGP-CTAF) (Proposition 1B) FY 16/17 \$ 99,883
State Transit Assistance (STA) \$ 10,348

Total Revenue \$110,231

Fare Boxes

Project No. 18-07

The El Dorado County Transit Authority (El Dorado Transit) utilizes fare boxes to collect cash and scrip from passengers. The current manufacturer is no longer supporting the existing fare boxes that have been used for more than twenty (20) years.

This capital project will allow for the purchase of new fare boxes and floor stands.

COST SUMMARY (ESTIMATE)		Adopted Budget
Fare Boxes Contingency 10%	Total Project Cost	\$61,358 <u>\$ 6,136</u> \$67,494
FUNDING SOURCES		
State Transit Assistance (ST.	A) Total Revenue	\$67,494 \$67,494

IT Upgrade and Replacement 5-year plan

Project No. 19-01

The most recent assessment of the El Dorado County Transit Authority's (El Dorado Transit) network in November 2017 yielded a 5-year IT plan to proactively replace IT network hardware and software according to its estimated life span. Included in this plan is desktops, laptops, servers, network equipment and software upgrades during Fiscal Year 2018/19 through Fiscal Year 2022/2023.

COST SUMMARY (ESTIMATE)		Adopted Budget
IT Upgrade and Replacement Plan 10% Contingency	Total Project Cost	\$127,850 <u>\$ 12,785</u> <i>\$140,635</i>
FUNDING SOURCES		
State Transit Assistance (STA)	Total Revenue	\$140,635 \$140,635

Pollock Pines Safeway Bus Stop Improvements

Project No. 19-02 (2)

The El Dorado County Transit Authority (El Dorado Transit) uses a designated bus stop located on the south side to Pony Express Trail directly in front of Safeway in Pollock Pines. This bus stop consists of an asphalt pullout and a standalone concrete pad with a shelter. This project will include the replacement of the asphalt pullout with concrete, increasing the size of the concrete pad for the shelter, adding sidewalk and curbing to meet Americans with Disabilities Act (ADA) minimum standards, solar lighting and security cameras.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Pollock Pines Safeway Bus Stop Improvements Contingency 10% <i>Total Project Cost</i>	\$ 168,418 \$ 16,842 \$ 184,900
FUNDING SOURCES	
State Transit Assistance Total Revenue	\$ 184,900 \$ 184,900

Administration Building Safety Improvements

Project No. 19-03

The El Dorado County Transit Authority (El Dorado Transit) understands the most important asset is its employees. Being proactive will reduce potential threats. Following recent trends of violence in the workplace, a walk through assessment was completed by two (2) deputies from the El Dorado County Sheriff's Department and Office of Emergency Services. As a result, the Administration Building Safety Improvement will enhance the overall employee safety and security and address opportunities within the facility.

El Dorado Transit will install one (1) cashiers window in the reception area; install three (3) panic alarms (1 in dispatch and 2 in the reception area); install two (2) exterior windows in two (2) offices and one (1) sliding window connecting two (2) offices. Installing the improvements will allow for safer and more secure interactions from external and internal customers. The enclosed windows with addition of panic alarms will limit exposure to physical threat and allow a quicker response from emergency services. The added windows will allow for an added security measure and an extra escape route if other egress routes are not accessible.

COST SUMMARY (ESTIMATE)	Adopted Budget
Equipment and Installation of two (2) exterior windows Equipment and Installation of three (3) panic switches Purchase and Installation of two (1) cashier windows Contingency 15% Total Project Estimate	
FUNDING SOURCES	
State Transit Assistance (STA) Total Revenue	\$ 24,150 \$ 24,150

<u>Vehicle Replacement – Demand Response</u>

Services: Local Bus Route

Dial-A-Ride

Project No. 19-04 (2)

The El Dorado County Transit Authority (El Dorado Transit) was awarded a Federal Transit Administration (FTA) grant to replace five (5) local fixed route cutaway buses and five (5) Dial-A-Ride minivans that are beyond useful life. All vehicles will be moved into back-up status.

This project replaces:

EDCTA#	Vehic	le Type	Mileage
			08/24/2018
1013	2010	Chevy Minivan	126,252
1101	2011	Chevy Minivan	167,643
1301	2013	Chevy Minivan	160,459
1302	2013	Chevy Minivan	169,588
1303	2013	Chevy Minivan	159,582
0703	2007	Chevy 26- passenger bus	298,944
0704	2007	Chevy 26- passenger bus	359,070
0901	2009	Chevy 26- passenger bus	259,692
0902	2009	Chevy 26- passenger bus	249,079
0903	2009	Chevy 26- passenger bus	227,264

COST SUMMARY (ESTIMATE)		Adopted
		<u>Budget</u>
Five (5) Minivans		\$335,000
Five (5) Cut-A-W	ay Buses	\$548,000
Contingency 5%		\$ 44,150
	Total Project Cost	\$927,150

FUNDING SOURCES

Federal Transit Administration (FTA) 5310	
Enhanced Mobility of Seniors and	
Individuals with Disabilities	\$610,000
State Transit Assistance	\$317,150
Total Revenue	\$927,150

Administration / Maintenance Facility Equipment

Project No. 19-05

El Dorado Transit may have the need during the Fiscal Year 2018/19 to procure items considered incidental in nature, but are above the \$1,000 threshold that designates an asset posted to the depreciation schedule. Examples of this would include the replacement of small office equipment/furniture and/or replacement of Maintenance equipment.

Adoption of the project and budget allows transit staff to procure small items in a timely manner with the least amount of inconvenience to the public and staff. Individual purchase orders for this project will be presented to the Board for approval if they exceed the \$25,000 per purchase limit or if a budget increase is requested.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>	
Admin./Maintenance Facility Equipment Total Project Cost	\$40,000 \$40,000	
FUNDING SOURCES		
State Transit Assistance (STA)	\$40,000	
Total Revenue	\$40,000	

El Dorado County Transit Authority Final Capital Improvement Plan Budget

Approved Capital Projects					Beginning Balance as of 12/31/2017							
Status	Priority	CIP Project Number	Project Description	Budget	Deferred STA* \$3,942,311	FTA Section 5307 \$882,683	FTA Section 5310 \$610,000	FTA Section 5339 \$800,000	PTMISEA 10/11 \$1,430,620	CTSGP-CTAF \$400,708	CMAQ \$1,100,000	FINANCING 1,200,000
ACTIVE	1A	12-06	Western Placerville Interchange (WPI) Park and Ride	\$2,865,620	\$335,000				\$1,430,620		\$1,100,000	
ACTIVE	1B	13-05	Maintenance Facility Equipment	\$23,625	\$23,625							
ACTIVE	1C	15-08	Park-and-Ride Parking Lot Maintenance	\$250,000	\$250,000							
ACTIVE	2A	17-02	Vehicle Replacement 5 Year Plan - Commuter	\$3,000,000	\$313,570	\$686,430		\$800,000				1,200,000
ACTIVE	1D	17-05	Maintenance Facility - Safety and Equipment	\$52,000	\$52,000							
ACTIVE	2B	18-03	Administration / Maintenance Facility Equipment	\$40,000	\$40,000							
ACTIVE	3A	18-05	Collision Avoidance Syatem	\$257,785	\$132,931					\$124,854		
ACTIVE	3B	18-07	Farebox Replacement	\$67,494	\$67,494							
PLANNED	5A	14-03	Metal Fabrication Tools	\$11,942	\$11,942							
PLANNED	5B	17-03	Bus Stop Improvements - Upper Broadway	\$166,014	\$166,014							
ACTIVE	3C	18-01	Moderate Improvements to Administration Building	\$165,000	\$165,000							
PLANNED	5C	18-02	Bus Shelter Amenities	\$165,000	\$165,000							
PLANNED	8A	18-04	Vehicle Replacement - Local Fixed Route - Gillig	\$2,800,000	\$420,000							
PLANNED	3D	18-06	Radio System	\$110,231	\$11,231					\$99,000		
PLANNED	1E	19-01	IT Upgrade and Replacement 5 Year Plan	\$140,635	\$140,635							
PLANNED	5D	19-02	Pollock Pines Safeway Bus Stop Improvements	\$184,900	\$184,900							
PLANNED	5D	19-03	Administration Building Safetyt Improvements	\$24,150	\$24,150							
ACTIVE	4A	19-04	Vehicle Replacement - Demand Response	\$920,000	\$310,700		\$610,000					
PLANNED	3E	19-05	Administration / Maintenance Facility Equipment	\$40,000	\$40,000							
Project Totals \$11,284,396					\$2,854,192	\$686,430	\$610,000	\$800,000	\$1,430,620	\$223,854	\$1,100,000	\$1,200,000
	Remaining Funds Available					\$196,253	\$0	\$0	\$0	\$176,854	\$0	\$0

Priority - Key Code

- 1 = Active project, Work In Progress, projected completion undetermined
- 2 = Active project, Work In Progress, projected completion in FY 2017/18
- 3 = Active project, Work In Progress, projected completion during Fiscal Year 2018/19
- 4 = Funding in place, pending Specifications and Purchase Order
- 5 = Funding in place, pending staff management availability
- 6 = Funding received, Project ongoing

*Per FY 2016/17 Audited Financials minus first six month expenses FY 2017/18