









Fiscal Year 2024/25

Capital Improvement Plan

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EL DORADO COUNTY TRANSIT AUTHORITY FINAL CAPITAL IMPROVEMENT PLAN

FISCAL YEAR 2024/2025

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 fiscal 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 2024/25 identify transit capital funded with Transportation Development Act (TDA) funds, State of Good Repair (SGR) funds, Federal Transit Administration (FTA) Section 5307 funds, Federal Transit Administration (FTA) Section 5310 funds, and a proposed Low Carbon Transit Operations Program (LCTOP) grant from the State.

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

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Maintenance Facility Swamp Cooler and Steam Cleaner Modifications

Project No. 20-04 (3)

In 2001, two (2) industrial swamp coolers were installed on the exterior of the maintenance facility to provide environmental control for maintenance staff performing maintenance in the three (3) bays. Over time, these large units are inefficient and do not provide the necessary cooling needed for personnel and require extensive maintenance.

This project would remove the existing units, patch the metal siding, install new racking and two (2) more efficient swap coolers and proper ducting inside the bays.

In 2013, an engine steam cleaning system was constructed behind the maintenance facility for keeping the bus engines free of excessive oil and grease as required by California Highway Patrol Transit Operator Compliance requirement. The facility included a steel carport area with a contained drain system to prevent leakage into the storm water drain system. When not used for steam cleaning engines, the custodian uses this area to perform bus cleaning. Because the area has no siding it is not a conducive environment during adverse weather. It is not a large enough area to house a 45-foot bus.

This project would install pre-engineered metal siding to close off three (3) sides of the facility, install additional columns to extend the length of the facility by 10 - 15 and a rollup door to fit the larger buses to enable closing off the work area during adverse weather conditions.

COST SUMMARY (ESTIMATE)

`	Adopted Budget
Shop Swamp Cooler Modifications Contingency	\$63,500 \$ 6,825 \$70,325
Steam Cleaner Modifications Contingency	\$90,000 <u>\$ 8,850</u> \$98,350
Total Project Estimate	\$168,675
FUNDING SOURCES Transportation Development Act (TDA) Total Revenue	\$168,675 \$168,675

Adopted into CIP	Status	Estimated Completion Date
FY 2019 / 2020	Active	FY 2024 / 2025

El Dorado Hills Park and Ride Improvements

Project No. 22-02 (2)

The El Dorado County Transit Authority (El Dorado Transit) maintains a park and ride facility in El Dorado Hills at Post Street and White Rock Road. In the El Dorado Transit Park and Ride Master Plan which was adopted by the El Dorado Transit Board on February 1, 2024, improvements to the El Dorado Hills Park and Ride were recommended. Those improvements include repaving the existing lot; reconstructing the transit passenger plaza; renewing landscaping, striping, and signing; adding new EV charging stations; improving bicycle and pedestrian connections; and purchasing and improving the lot to the east of the current facility.

COST SUMMARY (ESTIMATE)	Adopted Budget
Park and Ride Parking Lot Resurfacing Total Project Estimate	\$2,800,000 \$2,800,000
FUNDING SOURCES	
Section 5307 – Capital FY 2021	\$ 300,000
Section 5307 – Capital FY 2022	\$ 400,000
Section 5307 – Capital FY 2023	Pending
Transportation Development Act (TDA)	\$2,100,000
Total Revenue	\$2,800,000

Adopted into CIP	Status	Estimated Completion Date
FY 2021 / 2022	Active	FY 2026 / 2027

Zero Emission Vehicles and Infrastructure

Project No. 22-03 (2)

FY 2021 / 2022

El Dorado Transit (EDT), like all transit agencies in the state of California, are required to transition to zero-emission buses (ZEBs) by 2040. In 2018, the California Air Resources Board (CARB) adopted the Innovative Clean Transit ICT regulation that requires this gradual transition to ameliorate the air quality for all communities across California. While public transportation already replaces car trips, by transitioning away from diesel (which currently powers EDT's fleet) and other fossil fuels, transit agencies will further contribute to the sustainability of our natural environment.

EDT is classified under the ICT regulation as a small agency, meaning that beginning in 2026 through 2028, all new heavy-duty bus purchases must consist of at least 25% ZEBs. By 2029, all new purchases are to be 100% ZEB.

EDT is currently undertaking a ZEB study to determine the appropriate technologies for its fleet, whether battery-electric buses (BEBs), that 'fuel' or charge in the bus garage and/or on-route, or hydrogen fuel cell electric buses (FCEBs) that are fueled with hydrogen. BEBs and FCEBs are costly vehicles, nearly one-and-half to triple the cost of diesel-powered vehicles. EDT will need to replace its fleet of 35-ft buses according to the ICT schedule.

Furthermore, the ICT regulation also requires that beginning in 2026, if Altoona-test models are available, agencies must also begin replacing articulated, over-the-road, double-decker, or cutaway buses. EDT currently operates diesel-powered motor coaches on its commuter services, so these buses would need to be transitioned; moreover, gasoline-powered cutaways used for demand-response service will also need to be transitioned to ZE.

Finally, EDT will need to invest heavily in infrastructure for ZEBs, whether BEB or FCEB. For BEBs, electric utility upgrades will need to be coordinated with PG&E, and BEB chargers will need to be procured, installed, and hooked-up prior to BEB acceptance. For FCEBs, EDT may need to construct an on-site fueling yard for hydrogen or look for offsite opportunities, although currently, very few hydrogen fueling stations are available.

COST SUMMARY (ESTIMATE)		Adopted <u>Budget</u>
Zero Emission Vehicles		\$8,280,000
	Total Project Estim	ite \$8,280,000
FUNDING SOURCES		
Low Carbon Transit Ope	erations Program (LCTOP) FY 20	20/21 \$ 140,523
Low Carbon Transit Ope	rations Program (LCTOP) FY 20	21/22 \$ 378,215
Low Carbon Transit Ope	erations Program (LCTOP) FY 20	022/23 \$ 305,959
Low Carbon Transit Ope	erations Program (LCTOP) FY 20	023/24 \$ 491,460
Transportation Developn	nent Act (TDA/STA) Funds	\$3,800,000
Funding Pending	,	\$3,163,843
3	Total Revenue	\$8,280,000
Adopted into CIP	Status	Estimated Completion Date

Active

FY 2026 / 2027

Bass Lake Park & Ride – Phase I

Project No. 22-04 (3)

All work related to the completion of the Bass Lake Hills Park and Ride, during or after preliminary construction of the facility.

The El Dorado County Transit Authority Park-and-Ride Facilities Master Plan (2017) identified the Bass Lake Hills Park and Ride location as the #3 Priority Site for development. The assumption was that the land for the facility would come from development activity within the Bass Lake Hill Specific Plan. In 2018, through Irrevocable Offers of Dedication provided by a developer, El Dorado Transit took title to portions of two parcels on the southwest side of Bass Lake Road at the future Country Club Drive, totaling 2.4 acres. Rough grading of the site, as part of the reconstruction of Bass Lake Road at the Country Club Drive intersection, was completed in 2020. The Condition of Approval for the Bass Lake North subdivision requires the developer to construct the first half (100 spaces) of the park and ride facility. That construction will create the basic park and ride facility, which includes drainage, finish grading and paving. Construction is now scheduled to begin in May 2023.

Additional improvements that will be needed to complete the first phase of the facility construction include signage, landscape design and installation, water supply, electric utilities, and lighting. Due to recently added design requirements and an accelerated construction schedule, staff expects to incur costs associated with the completion of Phase 1 construction within FY 2023/24. This shorter period necessitates the use of local Transportation Development Act (TDA) funds for this project.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Bass Lake Park & Ride	\$ 360,000
Contingency	\$ 40,000
Total Project Estimate	\$ 400,000

Transportation Development Act (TDA)	\$ 400,000
Total Revenue	\$ 400,000

Adopted into CIP	Status	Estimated Completion Date
FY 2021 / 2022	Active	FY 2024 / 2025

Scheduling and Dispatching Software Replacement

Project No. 22-05 (3)

This project will replace the current software that is used for Demand Response scheduling and dispatching that was purchased in 2012. New software technologies can offer a more robust system that will be more customer responsive.

COST SUMMARY (ESTIMATE)	Adopted Budget
Dispatching Software Contingency Total Project Estimate	\$230,000 <u>\$ 15,000</u> <i>\$245,000</i>
FUNDING SOURCES	
Federal Transit Administration (FTA) Rural 5310 Grant Federal Transit Administration (FTA) Urban 5310 Grant Transportation Development Act <i>Total Revenue</i>	\$120,000 \$ 60,000 <u>\$ 65,000</u> \$245,000

Adopted into CIP	Status	Estimated Completion Date
FY 2021 / 2022	Active	FY 2024 / 2025

Bus Parking Lot Rehabilitation

Project No. 23-02 (2)

The El Dorado County Transit Authority (El Dorado Transit) parks all vehicle assets on site at our facility located on the northeastern portion of the property. The parking area has interior and perimeter lighting, chain link fencing, a paved surface and mechanical entry gate.

The pavement condition is degraded significantly and needs repair. In addition, bus charging infrastructure and parking lot layout improvements were recommended in the Zero Emission Vehicle Rollout and Implementation Plan. Including "Area A" in the ZEB study.

This project will include the removal and replacement of asphalt, moving concrete curbs, installation of underground conduit, new striping, and other improvements.

If the project is below budget, excess grant funds will go toward vehicle maintenance.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Bus Parking Lot Rehabilitation Contingency 10% Total Project Estimate	\$810,000 <u>\$ 81,436</u> \$891,436
FUNDING SOURCES	
SB1 State of Good Repair Grant FY 22/23 SB1 State of Good Repair Grant FY 23/24 SB1 State of Good Repair Grant FY 24/25 Total Revenue	\$285,297 \$297,741 <u>\$308.398</u> <i>\$891,436</i>

Adopted into CIP	Status	Estimated Completion Date
FY 2022 / 2023	Active	FY 2025 / 2026

Passenger Security Surveillance & Lighting - Bus Stops

Project No. 24-02

The last installation of security lighting and surveillance equipment at primary bus stops, transfer points, and park & ride facilities occurred in 2016 for the route service. This project will replace current hardware and software to significantly enhance safety and security for transit passengers and property. The project proposes to reinstall security cameras and/or lighting including the following locations, Central Park and Ride, Placerville Station, Cambridge Road Park and Ride, El Dorado Hills Park and Ride and Ponderosa Road. Additional locations may be included depending on funding availability.

COST SUMMARY (ESTIMATE)	Adopted Budget
Passenger Security Surveillance & Lighting - Bus Stops Total Project Estimate	\$300,000 \$300,000
FUNDING SOURCES	
Transportation Development Act (TDA) funds Total Revenue	\$300,000 \$300,000

Adopted into CIP	Status	Estimated Completion Date
FY 2023 / 2024	Active	FY 2025 / 2026

Collision Avoidance System Upgrade

Project No. 24-04

Operators engage in numerous hours of training throughout their employment on proper mirror usage and blind spot awareness to minimize the likelihood of being involved in collisions with vehicles, bicyclists, and pedestrians. To further reduce the likelihood of collisions in the operator's blind spot, in 2018, Collision Avoidance Systems were installed in the passenger vehicles to assist operators by alerting them of potential collisions.

Since the original installation, Collision Avoidance System technology has vastly improved. Upgrading the systems with the updated technology will decrease visual obstructions used by the current components, provide additional detection by increasing sensor technology during low light, and provide an exterior audible announcement warning pedestrians and bicyclists who enter the danger zone of a vehicle when turning.

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Collison Avoidance System	\$325,500
Contingency 10%	\$ 32,550
Total Project Estimate	\$358,050

Transportation Development Act (TDA) (STA)	\$ 358,500
Total Revenue	\$ 358,500

Adopted into CIP	Status	Estimated Completion Date
FY 2023 / 2024	Active	FY 2025 / 2026

Supervisor and Admin Staff Vehicle Replacement

Project No. 24-05

El Dorado Transit currently has one (1) Operations Supervisor staff car, a 2007 Chevrolet Malibu, and one (1) Administration staff car, a 2005 Honda Hybrid, primarily used by the Accounting Department.

Both of these vehicles have been set for replacement as indicated on the Vehicle Replacement Plan approved on

COST SUMMARY (ESTIMATE)	Adopted <u>Budget</u>
Staff car Replacements	\$70,983.55
10% Contingency	\$ 7,098.35
Total Project Estimate	\$78,081.90

Transportation Development Act	<u>\$78,081.90</u>
Total Revenue	\$78,081.90

Adopted into CIP	Status	Estimated Completion Date
FY 2023 / 2024	Active	FY 2024 / 2025

Scheduling Hardware

Project No. 24-06

El Dorado Transit is currently updating its Demand Response Scheduling Software. During this process, management determined the best course of action was to replace the on-board tablets that are utilized by operators.

COST SUMMARY (I	ESTIMATE)	Adopted <u>Budget</u>
Scheduling H	Hardware	\$25,000.00
Contingency		\$ 5,000.00
	Total Project Estimate	\$30,000.00

Transportation Development Act	<u>\$30,000.00</u>
Total Revenue	\$30,000.00

Adopted into CIP	Status	Estimated Completion Date
FY 2023 / 2024	Active	FY 2024 / 2025

Administration / Maintenance Facility Equipment

Project No. 25-01

El Dorado Transit may have the need during the Fiscal Year 2024/25 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

Budget

FUNDING SOURCES

Transportation Development Act (TDA) \$\frac{\$40,000}{\$40,000}\$

Adopted into CIP	Status	Estimated Completion Date				
FY 2024 / 2025	Pending	FY 2024 / 2025				

Bus Stop Improvements, Maintenance and Repairs

Project No. 25-02

El Dorado Transit may have the need during the Fiscal Year 2024/25 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 trash receptacles, benches, landscaping, shelter repairs and other items of this nature.

Adoption of the project and budget allows transit staff to procure items and conduct needs/repairs 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
	Budget

FUNDING SOURCES

Transportation Development Act (TDA) \$\frac{\$40,000}{\$40,000}\$

Adopted into CIP	Status	Estimated Completion Date				
FY 2024 / 2025	Pending	FY 2024 / 2025				

Cambridge Road Park and Ride Improvements

Project No. 25-03

The El Dorado County Transit Authority (El Dorado Transit) maintains a park and ride facility at Cambridge Road and Highway 50 in Cameron Park. In the El Dorado Transit Park and Ride Master Plan which was adopted by the El Dorado Transit Board on February 1, 2024, improvements to the park and ride were recommended. Those improvements will make the facility a fully adequate transit center and would include adding a bus loop with two additional bus loading bays; parking lot resurfacing and striping; and landscaping improvements.

COST SUMMARY (ESTIMATE)

Adopted

<u>Budget</u>

Park and Ride Parking Lot Resurfacing \$950,000

Total Project Estimate \$950,000

FUNDING SOURCES

Transportation Development Act (TDA) \$950,000

Total Revenue \$950,000

Adopted into CIP	Status	Estimated Completion Date				
FY 2024 / 2025	Pending	FY 2025 / 2026				

El Dorado County Transit Authority

Final Capital Improvement Plan Budget FY 2024/25

Status	CIP Project Number	Project Description	Completion Estimate (FY)	Project Budget	FY 2024/25 Expenditures	STA* \$8,815,543	FTA Section 5307 \$700,000	FTA Section 5310 \$180,000	LCTOP \$1,316,157	SB1 / SGR \$891,436	Unfunded
ACTIVE	20-04	Maintenance Facility Swamp Cooler and Steam Cleaner Modifications	2024/25	\$168,675	\$168,675	\$168,675					\$0
ACTIVE	22-02	El Dorado Hills Park and Ride Improvements	2026/27	\$2,800,000	\$50,000	\$2,100,000	\$700,000				\$0
ACTIVE	22-03	Zero Emission Vehicles and Infrastructure	2026/27	\$8,280,000	\$0	\$3,800,000			\$1,316,157		\$3,163,843
ACTIVE	22-04	Bass Lake Park & Ride - Phase I	2024/25	\$400,000	\$0	\$400,000					\$0
ACTIVE	22-05	Scheduling and Dispatching Software Replacement	2024/25	\$245,000	\$0	\$65,000		\$180,000			\$0
ACTIVE	23-02	Bus Parking Lot Rehabilitation	2025/26	\$891,436	\$134,076	\$0				\$891,436	\$0
ACTIVE	24-02	Passenger Security Surveillance & Lighting	2025/26	\$300,000	\$300,000	\$300,000					\$0
ACTIVE	24-04	Collision Avoidance System Upgrade	2025/26	\$358,050	\$358,040	\$358,040					
ACTIVE	24-05	Supervisor and Admin Staff Vehicle Replacement	2024/25	\$78,082	\$78,082	\$78,082					
ACTIVE	24-06	Hardware for New Sceduling Software	2024/25	\$30,000	\$30,000	\$30,000					
PENDING	25-01	Administration/Maintenance Facility Equipment	2024/25	\$40,000	\$40,000	\$40,000					
PENDING	25-02	Bus Stop Improvements, Maintenance and Repairs	2024/25	\$40,000	\$40,000	\$40,000					
PENDING	25-03	Cambridge Road Park and Ride Improvements	2025/26	\$950,000	\$950,000	\$950,000					
Project Totals			\$14,581,243	\$2,148,873	\$8,329,797	\$700,000	\$180,000	\$1,316,157	\$891,436	\$3,163,843	
		Remaining Funds Available				\$485,746	\$0	\$0	\$0	\$0	-\$3,163,843

*Balance Per FY 2022/23 Audited Financials

Project Status: In Progress Funded Unfunded