

CAPITAL IMPROVEMENT PLAN FY2025 - FY2029

PROGRAM: STREETS/TRAFFIC

Program Priority: **15**

PROJECT NAME: FM 518 at Bay Area Blvd Intersection Improvements

CIP NUMBER: NEW

CONTACT PERSON: Christopher Sims

PROJECT COST BY FISCAL YEAR

Project Cost	Previously Appropriated	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Future Years	Total
Planning/Design		120,000						\$120,120
Land								\$0
Construction			498,428					\$498,428
Equip/Furnishings								\$0
Total Cost		\$120,000	\$508,428	\$0	\$0	\$0	\$0	\$618,548

FUNDING SOURCE BY FISCAL YEAR

Funding Source	Previously Appropriated	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Future Years	Total
Prior Bonds								\$0
GO Bonds								\$0
Future Bonds								\$0
Potential Grant(s)								\$0
Park Dedication Fees								\$0
4B Funding								\$0
CRF Funds								\$0
Other: Cash		120,000	508,428					\$628,428
Total Funding	\$0	\$120,000	\$508,428	\$0	\$0	\$0	\$0	\$628,428

PROJECT DESCRIPTION

To improve intersection capacity and safety, the project scope includes adding a long southbound right turn lane (250 feet plus transition) and extending the existing northbound left turn lane from 135 feet to 350 feet. The addition of the southbound right turn lane will necessitate the relocation of a signal pole.

PROJECT JUSTIFICATION

The intersection of FM 518 at Bay Area Blvd was identified as a high priority improvement based on a safety and traffic operation assessment conducted by the City. There is a heavy demand for the southbound right turn movement, especially during the PM peak hour (377 vehicle per hour). However, there is no dedicated right-turn lane for this movement. This capacity improvement would help reduce the delay for the southbound approach, allow for reallocation of some green time to the rest of the approaches, reduce the overall intersection delay. It is also recommended to extend the northbound left-turn lane to improve capacity and prevent northbound left-turning vehicles from being impeded by the queue spill back of the northbound through traffic.

Key Intersection data:

- Intersection PM Peak hour volume - 3713 vph
- Volume/Capacity Ratio - .93, Level of Service (LOS) E
- Proximity to public school/student walkers
- 14 crashes involving injury (Study period 2021 to 2023)
- 55 crashes involving 154 persons (Study period 2021 to 2023)

ADDITIONAL CONSIDERATIONS

	YES	NO	Recurring M&O Costs	Amount
Is the project necessary under State/Federal Mandate, contractual obligation, or City Code?		NO	Personnel/Benefits (50xx)	\$0
			Supplies (51xx)	\$0
Will this project create future Capital Projects?		NO	Repairs/Maintenance (52xx)	\$0
Is your request in the current C I P ?		NO	Services (53xx)	\$0
If yes, has the cost of the project changed?			TOTAL	\$0