

**MEMORANDUM - CITY OF PASADENA
DEPARTMENT OF PUBLIC WORKS**

DATE: March 25, 2021
TO: Transportation Advisory Commission
FROM: Phyllis Hallowell, Management Analyst V
RE: FY 2022 – 2026 Capital Improvement Program

Attached for your review are summary reports for the *Streets & Streetscapes* and *Transportation* sections of the Recommended FY 2022 – 2026 Capital Improvement Program (CIP). This item will be discussed at the Commission meeting on Thursday, March 25, 2021 and was previously reviewed and received the full support of the Transportation Advisory CIP Subcommittee on Friday, March 11, 2021.

Summary reports for projects in the *Streets & Streetscapes* and *Transportation* sections of the Recommended FY 2022 – 2026 CIP provides the following information for each project:

- Total estimated cost;
- Funding appropriated through FY 2021;
- Expenditures to date through 2/22/21;
- Project balance as of 2/22/21;
- FY 2022 anticipated expenditures;
- FY 2022 recommended appropriations;
- Funding sources where funding is recommended for FY 2022; and
- FY 2022 proposed schedule.

A completed project report shows projects anticipated for completion by June 30, 2021.

Staff members will be present at the meeting to answer any questions you may have. We look forward to meeting with you.

Distribution

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cc: Ara Maloyan, P.E., Director of Public Works
Laura Cornejo, Director of Transportation

Recommended FY2022 CIP - Summary Report

Streets and Streetscapes

Priority New	Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY21	Expenditures as of 3/3/2021	Encumbrances as of 3/3/2021	Project Balance as of 3/3/2021	FY22 Anticipated Expenditures	FY22 Proposed Appropriation	Funding Sources	FY22 Proposed Schedule	Notes
1	N/A		Annual Citywide Street Resurfacing and ADA Improvement Program FY 2022	43,350,000	0	0	0	0	3,750,000	3,750,000	\$100,000 Gas Tax; \$2,700,000 Road Maintenance and Rehabilitation Account (SB 1); \$950,000 Sewer Fund	Resurfacing will begin in FY 2022.	This project includes the systematic annual rehabilitation of streets throughout the City as prioritized by the City's Pavement Management Program established in FY 2019.
2	2	73913	Annual ADA Sidewalk Improvement Program - FY 2022	18,137,271	8,487,271	7,920,370	34,767	532,134	650,000	650,000	\$500,000 CDBG (applied) \$150,000 Street Occupancy Rental Fees	Maintenance of sidewalks, curb and gutter, and curb ramps will continue in FY 2022.	This project includes annual concrete sidewalk and improvements citywide. Sidewalk locations are prioritized based on the City's Accessibility and Disability Commission's criteria, which are: (1) high traffic volume streets; (2) high pedestrian usage; (3) highest vertical deviation; and (4) ADA-related citizen complaints.
3	3	73932	Annual Citywide Street Resurfacing and ADA Improvement Program FY 2021	5,350,000	5,350,000	85,292	57,362	5,207,346	5,000,000	0		Resurfacing will be completed in FY 2022.	This project includes the systematic annual rehabilitation of streets throughout the City as prioritized by the City's Pavement Management Program established in FY 2019.
4	N/A		Curb Ramp ADA Improvements Program - FY 2022	3,500,000	0	0	0	0	500,000	500,000	\$300,000 Gas Tax; \$200,000 Sewer Fund	Installation of curb ramps will continue in FY 2022.	This project includes the installation of new curb ramps along arterial, local, and collector streets that currently lack curb ramps in order to eliminate the City's backlog of over 800 high priority locations.
5	5	73940	Miscellaneous Sidewalk Repair Program	400,000	200,000	43,089	0	156,911	200,000	200,000	Private Capital	Sidewalk repairs will be constructed as funds are received in FY 2022.	This project includes the replacement of damaged sidewalks along property frontages where property owners elect to pay the City at time of building permit issuance or sale of property.
6	6	73324	Colorado Street Bridge Enhancements - Suicide Mitigation	5,050,000	950,000	775,963	237,103	-63,066	100,000	100,000	Gas Tax	Design will be completed in FY 2022.	This project includes the environmental, design, and construction phases for the installation of vertical barrier treatments along both sides and at each end of the Colorado Street Bridge.
7	7	73323	Holly Street Bridge - Seismic Retrofit	9,503,000	1,375,000	747,670	625,000	8,130,330	925,000	100,000	\$100,000 Gas Tax	Design will be completed in FY 2022.	This project includes the environmental, design, and construction phases of the seismic retrofit of Holly Street Bridge.
8	8	73929	Bridge Improvement Program FY 2019-2023	350,000	150,000	121,015	28,836	149	100,000	100,000	Gas Tax	Bridge inspections and improvements will continue in FY 2022.	This project includes: minor repair of concrete spalls and cracks; replacement of deteriorated steel reinforcements; replacement of deteriorated or missing expansion joint material; installation of grouted riprap slope protection; repair and painting of metal handrails; replacement of deteriorated asphalt overlays; and other necessary improvements.
9	9	73930	Guardrail Improvement Program	564,304	399,304	63,559	64,999	270,746	80,000	80,000	Gas Tax	This is a continuing program. Projects will be scheduled by City staff as repairs and/or replacements are identified.	This project includes the repair or replacement of damaged guardrails and the installation of guardrails at various locations throughout the City on an ongoing, as-needed basis.
Grand Total:				86,204,575	16,911,575	9,756,958	1,048,067	14,234,550	11,305,000	5,480,000			

Recommended FY2022 CIP - Summary Report

Transportation

Priority	Project#	Project Name	Total Estimated Cost	Appropriated thru FY21	Expenditures as of 3/3/2021	Encumbrances as of 3/3/2021	Project Balance as of 3/3/2021	FY22 Anticipated Expenditures	FY22 Proposed Appropriation	Funding Sources	FY22 Proposed Schedule	Notes
New	Old											
1	1	75111 Pasadena Bicycle Program FY 2021-2025	581,073	221,073	59,516	10,890	150,667	80,000	80,000	TDA Article 3	Implementation of the Bicycle Transportation Plan will continue in FY 2022, including installation of additional painted bike-way amenities such as green paint at conflict points and installation of sharrows along Roseways. In addition, prioritization of Bike Boulevards (Greenways), existing bike network gaps, and associated outreach will continue in FY 2022.	This project includes the implementation of the Bicycle Transportation Action Plan, additional on-street bike parking, the retrofit of existing bike-way facilities to meet current Caltrans standards, and implementation of a bicycle safety and outreach program.
2	6	75114 Citywide Complete Streets Program FY 2021-2025	874,915	299,915	84,119	8,926	206,870	200,000	75,000	Traffic Reduction Fee;	Ongoing work including speed hump investigations, preferential parking program and Neighborhood Traffic Management Program (NTMP) will continue in FY 2022. Specific NTMPs for the neighborhoods of Mountain Street/Summit Avenue Area (between Fair Oaks Avenue and Los Robles Avenue), N. Raymond Avenue Area (between Washington Blvd and Howard Street) and Mountain St/Holliston Ave Area (between Mentor Ave and Hill Ave) will be completed in FY 2022.	The Citywide Complete Streets Program is a comprehensive process for managing traffic volume, travel speeds and traffic-related noise in the City's residential neighborhoods.
3	2	75047 Pedestrian Safety Enhancements at Signalized Intersections	1,704,660	1,204,660	315,602	5,128	883,430	858,557	500,000	Road Maintenance and Rehabilitation Account (SB1)	Construction will be completed in FY 2022 for the intersections of Colorado Boulevard at Fair Oaks Avenue and Lake Avenue at Mountain Street.	This project includes the installation of pedestrian safety enhancements including pedestrian bulb-outs, curb ramps, improved crosswalk visibility and associated striping to enhance pedestrian safety at Fair Oaks Avenue and Colorado Boulevard, and Lake Avenue and Mountain Street.
4	3	75090 Left Turn Signal Phasing at Fair Oaks Ave. and Colorado Blvd.	160,000	160,000	41,732	0	118,268	142,141	0		Construction will be completed in FY 2022 following the completion of the "Pedestrian Safety Enhancements at Signalized Intersections" project (75047).	This project includes the installation of protected left-turn traffic phases at the signalized intersection of Fair Oaks Avenue and Colorado Boulevard.
5	4	75112 Pedestrian Crossing Enhancements Program FY 2021-2025	1,111,695	211,695	74,750	5,453	131,492	240,000	100,000	Traffic Reduction Fee	Construction for the Rectangular Rapid Flashing Beacon at Raymond Ave and Bellevue Dr and Marengo Ave and Bellevue Dr will be completed in FY 2022.	This project includes the installation of enhancements to uncontrolled marked crosswalks, including the design and installation of enhanced pedestrian signage with lights, pedestrian traffic signals, bulb outs, median islands, enhanced crosswalk markings and other pedestrian safety enhancements.

Recommended FY2022 CIP - Summary Report

Transportation

Priority New	Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY21	Expenditures as of 3/3/2021	Encumbrances as of 3/3/2021	Project Balance as of 3/3/2021	FY22 Anticipated Expenditures	FY22 Proposed Appropriation	Funding Sources	FY22 Proposed Schedule	Notes
6	5	75113	Arterials Speed Management Program FY 2021-2025	410,500	110,500	0	6,229	104,271	100,000	75,000	Gas Tax	Design for Speed Feedback Signs on Villa St between Wilson Ave and Hill Ave and Washington Blvd between Catalina Ave and Hill Ave will begin in FY 2022. Additional potential raised median locations will be identified and installed.	This project includes the installation of electronic speed feedback signs or full electronic changeable message boards that will promote compliance to posted speed limits.
7	7	75087	Complete Streets Project - Union Street Cycle Track	8,227,877	7,727,877	1,416,931	32,567	7,590,502	7,596,600	0		Construction will begin in FY 2022.	This project includes a protected bicycle lane (cycle track) on Union Street from Hill Avenue to Arroyo Parkway, which will provide an alternative mode of travel connecting Metro Gold Line stations to major institutions and employment centers.
8	8	75052	Complete Streets Project - Cordova St. from Hill Ave. to Arroyo Pkwy.	4,476,342	4,076,342	575,701	0	3,500,641	3,512,700	400,000	\$200,000 Sewer Fund; \$200,000 Gas Tax	Construction will begin in FY 2022.	This project includes a vehicular-oriented street to be converted into a complete street by removing two vehicular traffic lanes to accommodate pedestrian and bicycle facilities.
9	9	75105	Lake Ave. Traffic and Pedestrian Safety Enhancements from Mountain St. to Maple Ave. - Design Phase	200,000	200,000	132,486	46,792	20,722	0	0		Final design will begin when funds are identified.	This project includes the installation of Pedestrian Safety Enhancements on Lake Avenue from the Metro L (GOLD) Line Station to Mountain Street.
10	10	75077	Complete Streets Project - Avenue 64 from Colorado Blvd. to South City Limits	1,871,000	1,871,000	78,210	255,236	1,537,554	1,546,000	0		Construction will begin in FY 2022.	This project includes the installation of bulb-outs and/or median islands along selected intersection on Avenue 64, from Melrose Avenue to Burleigh Drive.
11	11	75093	Complete Streets Project - N. Hill Ave. from North City Limit to Villa St.	1,599,980	635,000	31,267	0	603,733	600,000	600,000	MTA Multi-Year Subregional Program (MSP)	Design will begin in FY 2022.	This project includes the installation of traffic calming elements including traffic circles at the intersections of Hill Avenue at Topeka Street and Hill Avenue at Elizabeth Street.
12	12	75106	South Lake Ave. Pedestrian Access Improvements to Gold Line Station	3,087,000	2,396,000	9,152	0	2,386,848	570,000	577,500	South Lake Parking Meters Fund	Design will be completed in FY 2022.	This project includes the streetscape improvements to a 1.06 mile portion of Lake Avenue beginning at the Gold Line station at Corson Street to the southern terminus at California Boulevard.
13	13	75107	Complete Streets Project - Mountain St. at Sierra Bonita Ave. and Sinaloa Ave. - Design Phase	200,000	200,000	4,348	0	195,652	197,300	0		Design will be completed in FY 2022.	This project includes the design for the installation of a raised median island at Mountain Street and Sierra Bonita Avenue, and a traffic circle at Mountain Street and Sinaloa Avenue.
14	*	14	Enhancements to Metro Gold Line Allen Station - Design Phase	1,500,000	500,000	0	0	0	0	0		A quick build pilot project will begin implementation in FY 2021 and continue into FY 2022. The design of the permanent installation will begin when funds are identified.	This project includes the design of pedestrian safety enhancements along Allen Avenue from Villa Street to Colorado Boulevard to enhance the safety and walkability of this pedestrian connection to the Metro Gold Line Allen Station.
15	46		Complete Streets Project - Rosemont Ave. Pedestrian Safety Enhancements from Seco St. to Orange Grove Blvd. - Design Phase	400,000	0	0	0	0	0	0		This project will begin when funds are identified.	This project includes the design of multimodal safety enhancements on Rosemont Avenue between Orange Grove Boulevard and Seco Street.

Recommended FY2022 CIP - Summary Report

Transportation

Priority New	Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY21	Expenditures as of 3/3/2021	Encumbrances as of 3/3/2021	Project Balance as of 3/3/2021	FY22 Anticipated Expenditures	FY22 Proposed Appropriation	Funding Sources	FY22 Proposed Schedule	Notes
16	15		Citywide Continental Crosswalk Implementation	5,100,000	0	0	0	0	0	0		A Continental Crosswalk implementation plan will be completed utilizing Department of Transportation Operating Budget in FY 2022.	This project includes the systematic replacement of crosswalk markings throughout the City. Replacement of existing marked crosswalk striping with Continental style crosswalk at 340 signalized intersections and 70 marked uncontrolled crosswalks, citywide.
17	New		Greenway (Bike Boulevard) Implementation - Design Phase	800,000	0	0	0	0	0	0		This project will begin when funding is identified.	New Project - see page 8 for more information

Traffic Operations, Traffic Signals, and ITS

18	17	75115	Transportation System Safety Enhancements Project - FY 2021 - 2025	625,000	100,000	0	0	100,000	125,000	125,000	\$75,000 Traffic Reduction Fee \$50,000 Gas Tax	Staff will continue to address safety concerns at high collision intersections, with a focus on safety enhancements in the Civic Center and the central business district in FY 2022.	This project includes the geometric modifications and enhancements to various locations in the City identified to be experiencing higher than average traffic collisions compared to similar locations.
19	18	75094	Implement Bus Signal Priority System on Pasadena Transit Buses	1,447,191	1,447,191	218,077	127,929	1,101,185	950,000	0		Construction will begin in FY 2022.	This project includes the installation of transponders that are compatible with Metropolitan Transit Authority Rapid Bus technology on all Pasadena Transit buses to provide transit signal priority.
20	19	75095	Adaptive Traffic Control Network - Phase II	2,071,766	2,071,766	257,519	0	1,814,247	330,000	0		Construction will begin in FY 2022.	This project includes the expansion of the City's existing Adaptive Traffic Control (ATC) capabilities on South Fair Oaks Avenue to four arterial segments, allowing for adaptive traffic control capabilities within the mobility corridor network.
21	20	75098	Traffic Signal at Fair Oaks Ave. and Bellevue Dr.	925,000	925,000	118,532	0	1,505,468	900,000	0		Construction will continue in FY 2022.	This project includes the installation of a traffic signal at the intersection of Fair Oaks Avenue and Bellevue Drive.
22	21	75108	Traffic Signal Safety Enhancements at the Intersections of Lake Ave. at Corson St. and Maple St.	125,000	125,000	0	0	125,000	100,000	0		Construction will begin in FY 2022.	This project includes the installation of dynamic electronic "No Right Turn" signs, new traffic signal poles, and foundations at the intersections of Lake Avenue at Corson Street and Maple Street.
23	22	75104	Traffic Signal Improvements at Colorado Blvd. and Bonnie Ave.	129,000	129,000	55,848	72,000	1,152	0	0		Construction will be completed in FY 2022.	This project includes the installation of a protected-permissive flashing yellow arrow at westbound Colorado Boulevard at Bonnie Avenue and an overlap phase for the eastbound right turn.
24	23	75109	Left Turn Phasing at San Gabriel Blvd. and California Blvd.	125,000	125,000	42,320	83,000	-320	0	0		Construction will be completed in FY 2022.	This project includes the installation of northbound and southbound flashing yellow arrow protective permissive left turn phasing at the intersection of San Gabriel Boulevard and California Boulevard.

Recommended FY2022 CIP - Summary Report

Transportation

Priority New	Priority Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY21	Expenditures as of 3/3/2021	Encumbrances as of 3/3/2021	Project Balance as of 3/3/2021	FY22 Anticipated Expenditures	FY22 Proposed Appropriation	Funding Sources	FY22 Proposed Schedule	Notes
25	24	75110	Left Turn Phasing at Fair Oaks Ave. and Bellefontaine St.	90,000	90,000	27,671	55,000	7,329	0	0		Construction will be completed in FY 2022.	This project includes the installation of northbound flashing yellow arrow protective permissive left turn phasing at the intersection of Fair Oaks Avenue and Bellefontaine Street.
26	25	75116	Old Pasadena Traffic Improvement - FY 2021-2025	189,512	69,512	0	0	69,512	30,000	30,000	Parking Meter Revenue - Old Pasadena	On street parking will be evaluated and dynamic curb management will be studied in FY 2022. Additional enhancements to signing, striping, and signal operations will also continue as requests are received.	This project includes the mitigation of parking and traffic impacts and issues needed in Old Pasadena.
27	26	75506	Gold Line Phase I - Project Enhancements	5,711,908	5,711,908	5,169,450	0	542,458	250,000	0		Implementation of the Light Rail Train Tracking and Network System (75517) will be completed in FY 2022. Outreach and final design for the Pedestrian Access Enhancements (75523) will begin in FY 2022.	This project includes the enhancements along the Gold Line route and stations.
28	28	75701	Intelligent Transportation System Phase I - Traffic Management Center and Transit Vehicle Arrival Information System	3,959,350	3,959,350	3,376,522	18,280	564,548	577,880	0		Construction will be completed in FY 2022.	This project includes the upgrade of control equipment at the Traffic Management Center (TMC), including upgrades to the display monitors of the TMC video wall, providing digital video solutions for video management and other communication improvements.
29	30	75913	Intelligent Transportation System Phase I - Video Detection System and Fiber Optic Communication	710,900	710,900	48,709	0	662,191	670,120	0		Construction will be completed in FY 2022.	This project includes the installation of conduit and fiber optic communication lines on San Gabriel Boulevard as well as upgrades to the communication infrastructure at intersections currently equipped with video detection cameras to follow the transmission of intersection video to the Traffic Management Center.
30	29	75912	Intelligent Transportation System Phase I - Parking Guidance	698,711	698,711	3,723	11,900	683,088	683,100	0		Construction will be completed in FY 2022.	This project includes the installation of vehicle counters at up to four City owned parking garages (Delacey, Schoolhouse, Del Mar Station, and Holly Street) as well as the installation of changeable message signs at key garage entrance points to display real time garage occupancy.
31	31	75117	Intelligent Transportation System (ITS) Equipment Upgrades/Replacement - FY 2021-2025	450,802	150,802	0	25,000	175,802	50,000	50,000	Gas Tax	This project will continue in FY 2022.	This project includes upgrades to video detection cameras and other ITS infrastructure in the northwest. In FY 2021, the City installed a CCTV camera at Fair Oaks Ave and Mountain St and replaced traffic signal hardware at 25 intersections in the Northwest to provide reliable traffic signal communication and operations. In FY 2022, the City will replace the traffic signal cabinet at El Molino Ave and Maple St, replace video detection cameras at Los Robles Ave and Buckeye St, and replace traffic signal controllers at multiple locations.

Recommended FY2022 CIP - Summary Report

Transportation

Priority New	Priority Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY21	Expenditures as of 3/3/2021	Encumbrances as of 3/3/2021	Project Balance as of 3/3/2021	FY22 Anticipated Expenditures	FY22 Proposed Appropriation	Funding Sources	FY22 Proposed Schedule	Notes
32	32	75118	Mobility Corridor Improvements FY 2021-2025	462,144	162,144	20,399	0	141,745	120,000	50,000	Gas Tax	This project will continue in FY 2022.	This project includes technology upgrades and operations and modifications to support the I-210 Integrated Corridor Management Project. The corridors in the Northwest include: Fair Oaks Ave, Mountain St, and Orange Grove Blvd.
33	33	75602	Implementation of Citywide Transportation Performance Monitoring Network	3,182,428	586,928	383,839	0	203,089	200,000	75,000	Traffic Reduction Fees	Construction will begin in FY 2022.	This project includes the implementation of a Citywide transportation performance monitoring network that will continuously monitor minor arterials, collectors and other "gateways" by linking them to the City's Traffic Management Center (TMC).
34	34	75121	Walnut Street Corridor Signal Improvements	4,100,000	4,100,000	0	0	4,100,000	20,000	0		Design will continue in FY 2022.	This project includes the replacement of old traffic signal controller infrastructure and communication equipment along Walnut Street to reduce delay, manage speeds and collect data.
35	35	75120	St. John Capacity Enhancement	2,600,000	2,600,000	0	0	2,600,000	500,000	0		Design will continue in FY 2022.	This project includes the modification of the intersections of the I-210 eastbound off ramp at California Boulevard and westbound California Boulevard at the St. John Avenue northbound I-210 on ramp to provide dual southbound left turn movements and dual right turn movements which require roadway striping and reconfiguring lanes.
36	36	75119	Installation of Automated License Plate Readers - Pilot Program	220,000	220,000	0	0	220,000	0	0		This project will continue in FY 2022.	This project includes the implementation of a pilot program of installation of Automated License Plate Readers (ALPR) on traffic signals at the following three intersections: Orange Grove Boulevard at Rosemont Avenue, Holly Street at Linda Vista Avenue, and Linda Vista Avenue at Lida Street.
37	37		Intelligent Transportation System Projects & Traffic Flow Improvements within the SR 710 Affected Corridors	3,800,000	0	0	0	0	3,800,000	3,800,000	Measure R Mobility Improvement Program Grant	Design will begin in FY 2022.	This project includes the upgrade of traffic signal controllers and cabinets; and the installation of fiber optics communication, dedicated short range communication and signal preemption technology at up to 55 signalized intersections along segments of Orange Grove Boulevard, Colorado Boulevard, Green Street, Holly Street and Hill Avenue.
38	38		Traffic Signal at Del Mar Blvd. and Michigan Ave.	683,000	0	0	0	0	0	0		This project will begin when funding becomes available.	This project includes the installation of the new traffic signal at the intersection of Del Mar Boulevard and Michigan Avenue.
39	39	75097	Traffic Signal at Orange Grove Blvd. and Craig Ave.	500,000	60,000	10,155	0	49,845	0	0		Construction will begin when funding becomes available.	This project includes the installation of a traffic signal at the intersection of Orange Grove Boulevard and Craig Avenue.
40	40	75099	Traffic Signal at Orange Grove Blvd. and Sunnyslope Ave.	481,000	65,000	14,929	0	50,071	0	0		Construction will begin when funding becomes available.	This project includes the installation of a new traffic signal at Orange Grove Boulevard and Sunnyslope Avenue.

Recommended FY2022 CIP - Summary Report

Transportation

Priority New	Priority Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY21	Expenditures as of 3/3/2021	Encumbrances as of 3/3/2021	Project Balance as of 3/3/2021	FY22 Anticipated Expenditures	FY22 Proposed Appropriation	Funding Sources	FY22 Proposed Schedule	Notes
41	41	75085	Purchase of Replacement Transit Vehicles and Expansion Fixed-Route Transit Vehicles	18,792,493	7,848,105	5,069,232	12,785	2,766,089	1,164,388	1,164,388	\$964,388 MTA Multi-Year Subregional Program \$200,000 Proposition A/C Local Return Funds	Two replacement CNG cutaway buses are anticipated to be delivered in FY 2022 and four additional replacement CNG standard buses are anticipated for delivery in FY 2023.	This project includes the purchase of replacement transit vehicles and expansion transit vehicles for the City of Pasadena's fixed-route transit system.
42	42	75086	Purchase of Dial-A-Ride Vehicles	2,234,316	1,274,316	946,893	0	327,423	0	0		Three replacement vehicles and one expansion vehicle will be purchased and delivered in FY 2022.	This project includes the purchase of replacement paratransit vehicles for the City's Dial-A-Ride program.
43	43	75707	Construction of Transit Operations Maintenance Facility	29,964,388	2,185,000	1,618,649	265,750	300,601	0	0		This project will continue when funding becomes available.	This project includes the construction of a Transit Operations and Maintenance Facility (TOMF) at 2180 East Foothill Boulevard. The proposed transit facility will support operations and maintenance of the Pasadena Transit and Dial-A-Ride services fleet, including accommodating 30 compressed natural gas buses and 15 paratransit vehicles.
44	44	75900	Bus Stop Improvement Program	663,500	363,500	288,880	18,178	56,442	0	0		This is a continuing program. Projects will be scheduled by City staff as locations are identified.	This project includes the installation of new bus benches, bus stop amenities and concrete paving at various bus stop locations throughout the City.
Grand Total:				116,747,451	55,093,195	20,495,161	1,061,043	33,450,615	26,113,786	7,701,888			

* A portion of project cost is not included in the total estimated costs. See Special Considerations on project page.

**FY 2022 - 2026 Capital Improvement Program
Transportation
Greenway (Bike Boulevard) Implementation - Design Phase**

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2021	Recommended FY 2022	Proposed FY 2023	Proposed FY 2024	Proposed FY 2025	Proposed FY 2026 and Beyond
NEW		Greenway (Bike Boulevard) Implementation - Design Phase							
	Unfunded		800,000	0	0	0	0	0	800,000
	Total		800,000	0	0	0	0	0	800,000

DESCRIPTION: This project provides for the design of enhancements to the accessibility and safety of the bicycle network along four north-south corridors in Pasadena identified as Greenways. The corridors include street segments of El Molino Ave, Wilson Ave, Sierra Bonita Ave and Craig Ave. The design effort would include neighborhood outreach along each corridor as part of the final design process. Proposed enhancements include:

- Bicycle detection on signalized approaches that lack such detection and are not on recall
- Bicycle signage and striping including sharrows, green conflict zone markings, striped median and edge lines
- On-street parking shift
- Bike lane through existing intersection diverter with new bicycle signal heads
- Cycle track
- Pavement rehabilitation with narrower gutters (long-term)
- Raised traffic calming median islands with striping
- Intersection bulb-outs/curb extensions
- Upgraded signal poles and signal heads
- Traffic circles and roundabouts
- New traffic signals
- Intersection median barriers for left turns (optional)

JUSTIFICATION: The 2015 Bicycle Transportation Action Plan identified various corridors as Greenways (also known as bike boulevards). In FY 2020 the Transportation Department conducted a study to develop conceptual bicycle safety and access enhancements along the greenway corridors, conduct a traffic analysis and develop an implementation plan.

The following corridors were studied:

- El Molino Ave: Atchison St to Bonita Dr (approx. 3.8 miles)
- Wilson Ave: Washington Blvd to California Blvd (approx. 2.3 miles)
- Sierra Bonita Ave: Washington Blvd to Colorado Blvd (approx 1.6 miles)

FY 2022 - 2026 Capital Improvement Program
Transportation
Greenway (Bike Boulevard) Implementation - Design Phase

- Craig Ave: Orange Grove Blvd to Del Mar Blvd (approx. 1.1 miles)

The four north-south bicycle boulevard corridors are essential in providing access to many residential neighborhoods, commercial areas, local parks, schools, colleges, and other major destinations throughout the City. The four bicycle boulevard corridors provide access north and south of the Interstate 210 Freeway. Implementation of the traffic calming features and other improvements would help reduce traffic speeds and collisions, helping increase the safety for pedestrians and cyclists along the four corridors.

SCHEDULE: This project will begin when funding is identified.

RELATIONSHIP TO THE GENERAL PLAN: *To be determined by the Planning and Community Development Department.*

SPECIAL CONSIDERATION: This project is estimated to cost of this project is \$7.9 million. The total estimated project cost will be finalized when design phase is completed.

HISTORY: This project was created in FY 2021 and is currently unfunded.

FY 2022 - 2026 Capital Improvement Program
Completed Projects

Project# Project Name

Streets and Streetscapes

73931	Annual Citywide Street Resurfacing and ADA Improvement Program - FY 2020
73936	Curb Ramp ADA Improvements FY 2021
73928	Miscellaneous Concrete Improvement Program FY 2019 - 2020

Transportation

Traffic Operations, Traffic Signals, and ITS

75907	Traffic Signal System Master Plan
75911	Intelligent Transportation System (ITS) Master Plan Implementation Phase III
