


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

DATE: March 13, 2018

TO: Transportation Advisory Commission

FROM:  Phyllis Hollowell, Acting Finance and Management Services Administrator

RE: Recommended FY 2019 – 2023 Capital Improvement Program

Attached for your review are summary reports for the *Streets and Streetscapes* and *Transportation* sections of the Recommended FY 2019 – 2023 Capital Improvement Program (CIP). This item will be discussed at the Commission meeting on Thursday, March 22, 2018 at 4:00 p.m. On Monday, March 5, this item received the full support of the Commission's CIP Subcommittee.

Summary reports for "active" projects in the *Streets and Streetscapes* (page 1) and *Transportation* (pages 2 – 4) sections outline the proposed FY 2019 CIP by providing the following information for each project:

- Total estimated cost;
- Funding appropriated through FY 2018;
- Expenditures to date through 2/15/18;
- Project balance as of 2/15/18;
- FY 2019 anticipated expenditures;
- FY 2019 recommended appropriations;
- Funding sources where funding is recommended for FY 2019; and
- FY 2019 proposed schedule.

In addition, project sheets for new FY 2019 projects (pages 5 – 14) and a "Future Projects" section (pages 15 – 17) are included for your review. A list of completed projects and projects anticipated for completion by June 30, 2018 is available on page 18.

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

cc: Ara Maloyan, Director of Public Works
Fred Dock, Director of Transportation
Kris Markarian, City Engineer

Recommended FY2019 CIP - Summary Report

Streets and Streetscapes

Priority	Project#	Project Name	Total Estimated Cost	Appropriated thru FY18	Expenditures as of 2/15/2018	Encumbrances as of 2/15/2018	Project Balance as of 2/15/2018	FY19 Anticipated Expenditures	FY19 Proposed Appropriation	Funding Sources	FY19 Proposed Schedule
New	Old										
1	New	Annual Citywide Street and ADA Improvement Program	19,190,000	0	0	0	0	3,190,000	3,190,000	Road Maintenance and Rehabilitation Account \$2,390,000 Gas Tax \$800,000	In FY 2019, repair or rehabilitation of streets will be completed as identified by the FY 2018 Pavement Management Program. Actual mileage will depend on rehabilitation method selected.
2	New	Annual ADA Sidewalk and Miscellaneous Concrete Improvement Program	9,750,000	0	0	0	0	1,950,000	1,950,000	General Fund \$1,000,000 Sewer Maintenance and Construction Fund \$650,000 Gas Tax \$300,000	Maintenance of sidewalks, curb and gutter, and curb ramps will continue in FY 2019.
3	1	73920 Resurfacing and Slurry Seal FY 2017 - 2019	4,176,293	4,176,293	423,927	0	3,752,366	3,000,000	0		In FY 2019, four miles of resurfacing on Orange Grove Boulevard will be completed and a pavement management system will be implemented.
4	5	73921 Curb and Gutter Improvements Citywide FY 2017 - 2018	1,349,697	1,349,697	671,451	7,549	670,697	300,000	0		This project will be completed in FY 2019.
5	New	Bridge Improvement Program	250,000	0	0	0	0	50,000	50,000	Gas Tax	Bridge improvements will continue in FY 2019.
6	New	Guardrail Improvement Program	425,000	0	0	0	0	85,000	85,000	Gas Tax	Guardrail installation and repair will continue in FY 2019.
7	9	73323 Holly Street Bridge - Seismic Retrofit	9,775,000	9,503,000	308,703	0	9,194,297	350,000	0		Preparation of environmental documentation and preliminary design will be completed in FY 2019.
8	11	73924 Alley Improvements Citywide FY 2018 - 2019	300,000	300,000	15,574	0	284,426	200,000	0		Design and construction of improvements to Meneely Alley will be completed in FY 2019.
Grand Total:			45,215,990	15,328,990	1,419,655	7,549	13,901,786	9,125,000	5,275,000		

Recommended FY2019 CIP - Summary Report

Transportation

Priority New	Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY18	Expenditures as of 2/15/2018	Encumbrances as of 2/15/2018	Project Balance as of 2/15/2018	FY19 Anticipated Expenditures	FY19 Proposed Appropriation	Funding Sources	FY19 Proposed Schedule
1	1	75075	Pasadena Bicycle Program FY 2016 - 2020	498,190	288,190	216,345	2,946	68,899	100,000	90,000	TDA Article 3	Implementation of the Bicycle Transportation Plan will continue in FY 2019.
2	2	75047	Pedestrian Safety Enhancements at Signalized Intersections	455,300	455,300	238,223	0	217,077	185,000	0		Construction will begin when environmental clearance is obtained by Caltrans.
3	3	75083	Pedestrian Crossing Enhancements Program	731,500	656,500	261,665	55,876	338,959	350,000	75,000	Gas Tax	Treatments at the following locations have been identified for enhanced flashing sign installation in FY 2019: Raymond Avenue at Bellevue Drive, Orange Grove Boulevard at Manzanita Avenue, Villa Street at Madison Avenue, Orange Grove Boulevard at Sunnyslope Avenue, and Los Robles Avenue at Buckeye Street.
4	5	75092	Enhancements to Metro Gold Line Allen Station - Concept Study	300,000	200,000	1,799	0	198,201	100,000	0		Concept study and community outreach will be completed in FY 2019.
5	6	75076	Citywide Complete Streets Program FY 2016 - 2020	750,000	321,826	115,696	84,668	121,462	145,000	100,000	Gas Tax	In FY 2019, ongoing work including speed hump investigations, preferential parking program and neighborhood traffic management program will continue.
6	7	75605	Arterials Speed Management Program	767,000	417,000	284,298	0	132,702	85,000	75,000	Gas Tax	In FY 2019, additional arterial speed management strategies will be implemented including the installation of up to five speed feedback signs.
7	8	75087	Complete Streets Project - Union Street Cycle Track - Phase I	6,512,000	1,034,477	16,339	999,714	18,424	0	2,080,409	MTA Grant - Federal Flexible CMAQ Funds \$1,312,123 ATP Cycle 3 \$542,886 Traffic Reduction Fee \$225,400	Design will continue in FY 2019.
8	9	75052	Complete Streets Project - Cordova St. from Hill Ave. to Arroyo Pkwy.	2,726,613	2,626,613	64,855	0	2,561,758	300,000	100,000	Traffic Reduction Fee	Design will continue in FY 2019.
9	11	75074	Complete Streets Project - Lida St. between Knollwood Dr. and Lancashire Pl.	325,000	100,000	14,539	0	85,461	290,000	225,000	Gas Tax \$25,000 Traffic Reduction Fee \$200,000	Construction will be completed in FY 2019.
10	10	75077	Complete Streets Project - Avenue 64 from Colorado Blvd. to South City Limits	2,000,000	200,000	16,393	0	183,607	0	0	Gas Tax (\$129,000)	Construction will begin when funding is identified.
11	12	75093	Complete Streets Project - N. Hill Ave. from North City Limit to Villa St. - Concept Study	300,000	100,000	0	0	100,000	50,000	0		Design will continue in FY 2019.
12	New		Complete Streets Project - Sunnyslope Ave. at Estado St. - Construction Phase	425,000	0	0	0	0	0	0		Construction will begin when funding is identified.
13	13	75096	Mid-block Traffic Signal and Crosswalk at 1790 N. Fair Oaks Ave.	265,000	265,000	12,075	0	252,925	220,000	0		Construction will be completed in FY 2019.

Recommended FY2019 CIP - Summary Report

Transportation

Priority New	Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY18	Expenditures as of 2/15/2018	Encumbrances as of 2/15/2018	Project Balance as of 2/15/2018	FY19 Anticipated Expenditures	FY19 Proposed Appropriation	Funding Sources	FY19 Proposed Schedule
14	New		Traffic Signal Improvements at Colorado Blvd. and Bonnie Ave.	129,000	0	0	0	0	129,000	129,000	Gas Tax	Design will begin in FY 2019.
15	14	75091	Traffic Signal at Garfield Ave. and Washington Blvd.	631,000	75,000	5,660	0	69,340	0	0		Construction will begin when funds are identified.
16	New		Traffic Signal at Fair Oaks Ave. and Bellevue Dr.	774,000	0	0	0	0	0	0		This project will begin when funding is identified.
17	New		Traffic Signal at Green St. and Holliston Ave.	646,000	0	0	0	0	0	0		This project will begin when funding is identified.
18	New		Traffic Signal at Orange Grove Blvd. and Craig Ave.	500,000	0	0	0	0	0	0		
19	New		Traffic Signal Operations and Maintenance Assessment	200,000	0	0	0	0	0	0		This project will begin when funding is identified.
20	16	75701	Intelligent Transportation System (ITS) Project - Phase I	4,198,961	4,198,961	2,687,406	446,748	1,064,807	1,000,000	0		Schedule TBD
21	17	75506	Gold Line Phase I - Project Enhancements	5,711,908	5,711,908	3,583,462	0	2,128,446	1,500,000	0		Construction on the Light Rail Train Tracking and Network System will be completed in FY 2019.
22	18	75079	Mobility Corridor Improvements FY 2016 - 2020	421,861	271,861	143,916	0	127,945	150,000	100,000	Gas Tax	The project will supplement Caltrans Connected Corridor Project. Caltrans received a Metro Grant to install various ITS improvements to participating cities in the I-210 Integrated Corridor Management Project. In Pasadena, approximately \$1.5M ITS improvements will be installed along the parallel mobility corridors. In FY 2019, the Mobility corridor project will be utilized to cover City staff time in the plan checking and inspection of Caltrans improvements within Pasadena.
23	19	75080	Old Pasadena Traffic Improvement - FY 2016 - 2020	150,000	90,000	956	0	89,044	80,000	30,000	Parking Meter Revenue - Old Pasadena	Preliminary design for mid-block crosswalks in Old Pasadena will begin in FY 2019.
24	21	75089	Transportation System Safety Enhancements Project	1,275,000	834,040	53,068	0	780,972	675,000	0		In FY 2019, design of enhancements at each intersection will be completed and construction is scheduled to begin.
25	22	75090	Left Turn Signal Phasing at Fair Oaks Ave. and Colorado Blvd.	160,000	160,000	0	0	160,000	160,000	0		Construction will begin when environmental clearance is obtained by Caltrans.
26	23	75084	Mobility Corridors - Rose Bowl Access Systems	1,622,000	1,622,000	191,364	21,661	1,408,975	1,300,000	0		Construction will continue in FY 2019.
27	26	75094	Implement Bus Signal Priority System on Pasadena Transit Buses	1,447,191	1,447,191	0	0	1,447,191	900,000	0		Design will begin in FY 2019.
28	27	75095	Adaptive Traffic Control Network - Phase II	2,502,572	2,502,572	0	0	2,502,572	1,400,000	0		Design will begin in FY 2019.

Recommended FY2019 CIP - Summary Report

Transportation

Priority New	Priority Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY18	Expenditures as of 2/15/2018	Encumbrances as of 2/15/2018	Project Balance as of 2/15/2018	FY19 Anticipated Expenditures	FY19 Proposed Appropriation	Funding Sources	FY19 Proposed Schedule
29	28	75602	Implementation of Citywide Transportation Performance Monitoring Network	3,132,428	386,928	333,484	36,200	17,244	0	0		Staff will continue implementation of the Live Traffic Data high resolution data collection and reporting in FY 2019. The City will also continue to pursue funding opportunities for additional performance monitoring tools.
30	31	75709	Traffic Signal Indication Safety Improvements - Phase II	770,000	770,000	174,637	58,318	595,363	400,000	0		This project will continue in FY 2019.
31	33	75078	Intelligent Transportation System (ITS) Equipment Upgrades/Replacement - FY 2016 - 2020	375,000	75,000	51,810	0	23,190	50,000	50,000	Gas Tax	This project will continue in FY 2019.
32	36	75086	Purchase of Dial-A-Ride Vehicles	1,052,516	674,638	631,716	2,611	40,311	400,000	377,878	FTA 5310 Enhanced Mobility of People with Disabilities \$268,869 Proposition A/C Local Return Fund \$109,009	The four remaining replacement vehicles will be purchased and are anticipated to be in service in FY 2019.
33	37	75085	Purchase of 8 Replacement Transit Vehicles and 4 Expansion Fixed-Route Transit Vehicles	6,831,900	4,305,051	1,754,993	2,141,556	408,502	1,600,000	1,207,443	FTA 5316 Job Access and Reverse Commute Program Grant \$862,830 Proposition A Local Return Fund \$344,613	Two of the four outstanding replacement vehicles will be purchased and are anticipated for delivery in FY 2019. The final two replacement vehicles will be purchased when funding is identified.
34	38	75707	Construction of Transit Operations Maintenance Facility	33,000,000	2,185,000	1,050,541	234,962	899,497	0	0		Construction will begin when funding is identified.
35	39	75900	Bus Stop Improvement Program	623,500	323,500	249,302	5,450	68,748	50,000	0		This is an ongoing annual project. Work will be completed on an as-needed basis.
Grand Total:				82,210,440	32,298,556	10,053,563	4,090,710	18,204,207	11,619,000	4,639,730		

FY 2019 - 2023 Capital Improvement Program
Streets and Streetscapes
Annual Citywide Street and ADA Improvement Program

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Annual Citywide Street and ADA Improvement Program							
		Gas Tax	4,600,000	0	800,000	800,000	1,000,000	1,000,000	1,000,000
		RMRA Fund	11,950,000	0	2,390,000	2,390,000	2,390,000	2,390,000	2,390,000
		Unfunded	2,640,000	0	0	810,000	610,000	610,000	610,000
		Total	19,190,000	0	3,190,000	4,000,000	4,000,000	4,000,000	4,000,000

DESCRIPTION: This project provides for the systematic rehabilitation of streets throughout the City as ranked and prioritized in the FY 2018 Pavement Management Program. As part of this program, separate projects will be completed on an annual basis as defined in a five-year pavement plan. Projects will include resurfacing and slurry sealing of asphalt streets, improvements to alleys and concrete streets and installation of ADA compliant ramps.

JUSTIFICATION: Systematic maintenance of asphalt streets at regular intervals prolongs the service life of roadway pavement and significantly lowers the cost of providing paved public streets by reducing the need for full reconstruction.

SCHEDULE: In FY 2019, repair or rehabilitation of streets will be completed as identified by the FY 2018 Pavement Management Program. Actual mileage will depend on rehabilitation method selected.

RELATIONSHIP TO GENERAL PLAN: This project is consistent with the Public Facilities Element of the General Plan by continuing to implement capital improvements which maintain or rehabilitate infrastructure and enhance the quality of life of the community.

IMPACT ON NORTHWEST: Portions of this project are located in Northwest Pasadena which is an area that has been targeted for revitalization.

HISTORY: This program was created and initially funded in FY 2019.

FY 2019 - 2023 Capital Improvement Program
 Streets and Streetscapes
 Annual ADA Sidewalk and Miscellaneous Concrete Improvement Program

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Annual ADA Sidewalk and Miscellaneous Concrete Improvement Program							
		Gas Tax	1,500,000	0	300,000	300,000	300,000	300,000	300,000
		General Fund	5,000,000	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
		Sewer Maintenance and Construction Fund	3,250,000	0	650,000	650,000	650,000	650,000	650,000
		Total	9,750,000	0	1,950,000	1,950,000	1,950,000	1,950,000	1,950,000

DESCRIPTION: This project provides for the annual ADA sidewalk and concrete improvements citywide. Sidewalk locations will be prioritized based on the City's Accessibility and Disability Commission's criteria, which are: (1) high traffic volume streets; (2) high pedestrian routes; (3) highest vertical deviation; and (4) ADA-related citizen complaints. This program will also provide for construction of curb and access ramps to achieve ADA compliance; drainage improvements on streets with flat grades; and repair of broken or raised concrete curbs and gutters along City streets. Projects in this program will be completed on an annual basis.

JUSTIFICATION: Pasadena had nearly 1.1 million square feet of damaged sidewalk. At the end of FY 2018, approximately 670,000 square feet of damaged sidewalks remain. Repairing these sidewalks will result in a safer, more pleasant pedestrian environment.

SCHEDULE: Maintenance of sidewalks, curb and gutter, and curb ramps will continue in FY 2019.

RELATIONSHIP TO GENERAL PLAN: This project is consistent with the Mobility Element Policy 2.7 of the General Plan by promoting improvements for pedestrians to support vibrant and active streets and major places of activity.

IMPACT ON THE NORTHWEST: A portion of this project is located in Northwest Pasadena which is an area that has been targeted for revitalization.

HISTORY: This program was created and initially funded in FY 2019. At the end of FY 2018, repairs to 430,000 square feet of sidewalk were completed.

FY 2019 - 2023 Capital Improvement Program
Streets and Streetscapes
Bridge Improvement Program

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Bridge Improvement Program							
	Gas Tax		250,000	0	50,000	50,000	50,000	50,000	50,000
	Total		250,000	0	50,000	50,000	50,000	50,000	50,000

DESCRIPTION: This project provides for the systematic maintenance of the City's bridge structures. Bridge maintenance includes: repair of concrete spalls and cracks; replacement of deteriorated steel reinforcement; 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 miscellaneous work.

JUSTIFICATION: Bridges are an integral part of the City's transportation network. Timely maintenance will extend the useful service life of a bridge at a fraction of the cost of future rehabilitation as well as provide a safer facility for public use.

SCHEDULE: Bridge improvements will continue in FY 2019.

RELATIONSHIP TO GENERAL PLAN: This project is consistent with the Seismic and Safety Element of the General Plan by helping to achieve and maintain an environment in which Pasadena residents can enjoy personal safety and security.

IMPACT ON THE NORTHWEST: Approximately 20 percent of this project is located in Northwest Pasadena which is an area that has been targeted for revitalization.

HISTORY: This project was created and initially funded in FY 2019. Previous work was completed under the "Bridge Improvements Citywide" project (73902).

FY 2019 - 2023 Capital Improvement Program
Streets and Streetscapes
Guardrail Improvement Program

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Guardrail Improvement Program							
	Unfunded		425,000	0	85,000	85,000	85,000	85,000	85,000
	Total		425,000	0	85,000	85,000	85,000	85,000	85,000

DESCRIPTION: This project provides for the repair or replacement of damaged guardrails and the installation of guardrails at various locations throughout the City on an ongoing, as-needed basis.

JUSTIFICATION: Damaged and deteriorated guardrails are replaced to provide a high level of safety. Guardrail locations are identified as they become safety issues and are installed in accordance with Caltrans standards.

SCHEDULE: Guardrail installation and repair will continue in FY 2019.

RELATIONSHIP TO GENERAL PLAN: This project is consistent with the Public Facilities Element of the General Plan by enabling more efficient development and utilization of public facilities.

IMPACT ON THE NORTHWEST: Portions of this project are located in Northwest Pasadena which is an area that has been targeted for revitalization.

HISTORY: This project was created and initially funded in FY 2019. Previous work was completed under the "Installation/Replacement of Guardrails FY 2016-2020" project (73911).

FY 2019 - 2023 Capital Improvement Program
 Transportation
 Complete Streets Project - Sunnyslope Ave. at Estado St. - Construction Phase

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Complete Streets Project - Sunnyslope Ave. at Estado St. - Construction Phase							
	Unfunded		425,000	0	0	0	0	0	425,000
	Total		425,000	0	0	0	0	0	425,000

DESCRIPTION: This project provides for the installation of bulb-outs/median island and new curb ramps at the intersection of Sunnyslope Avenue and Estado Street.

JUSTIFICATION: The intersection Sunnyslope Avenue and Estado Street is a gateway intersection to the Daisy/Villa residential neighborhood. This project was identified as a result of public concerns that vehicle traffic from Sunnyslope Avenue is causing cut-through traffic and speeding concerns within the Daisy/Villa neighborhood.

SCHEDULE: Construction will begin when funding is identified.

RELATIONSHIP TO GENERAL PLAN: This project is consistent with the Mobility Element of the General Plan by protecting neighborhoods and helping to promote and improve traffic safety within the City.

HISTORY: This project was created FY 2019 and is currently unfunded. Design was completed as part of the "Citywide Complete Streets Program FY 2016-2020" (75076).

FY 2019 - 2023 Capital Improvement Program
 Transportation
 Traffic Signal Improvements at Colorado Blvd. and Bonnie Ave.

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Traffic Signal Improvements at Colorado Blvd. and Bonnie Ave.							
	Gas Tax		129,000	0	129,000	0	0	0	0
	Total		129,000	0	129,000	0	0	0	0

DESCRIPTION: This project provides for 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.

JUSTIFICATION: A traffic investigation of vehicular and pedestrian volumes and collision history determined that a protected-permissive left turn traffic signal phase should be installed for westbound Colorado Boulevard at Bonnie Avenue. In addition, the eastbound right turn should be modified to include an overlap phase with the existing northbound left turn.

SCHEDULE: Design will begin in FY 2019.

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

HISTORY: This project was created and fully funded in FY 2019.

FY 2019 - 2023 Capital Improvement Program
 Transportation
 Traffic Signal at Fair Oaks Ave. and Bellevue Dr.

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Traffic Signal at Fair Oaks Ave. and Bellevue Dr.							
		Unfunded	774,000	0	0	0	0	0	774,000
		Total	774,000	0	0	0	0	0	774,000

DESCRIPTION: This project provides for the installation of a traffic signal at the intersection of Fair Oaks Avenue and Bellevue Drive.

JUSTIFICATION: Two marked uncontrolled crosswalks currently exists at the intersection of Bellevue Drive and Fair Oaks Avenue. This crosswalk serves students walking to Waverly School as well as other businesses in the area. This intersection is approximately 800' north of California Boulevard and 800' south of Del Mar Boulevard. A traffic signal installed at this location will enhance pedestrian safety.

SCHEDULE: This project will begin when funding is identified.

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

HISTORY: This project was created in FY 2019 and is currently unfunded.

FY 2019 - 2023 Capital Improvement Program
 Transportation
 Traffic Signal at Green St. and Holliston Ave.

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Traffic Signal at Green St. and Holliston Ave.							
		Unfunded	646,000	0	0	0	0	0	646,000
		Total	646,000	0	0	0	0	0	646,000

DESCRIPTION: This project provides for the installation of a traffic signal at the intersection of Green Street and Holliston Avenue.

JUSTIFICATION: Two marked uncontrolled crosswalks currently exist allowing pedestrians to cross at Green Street and Holliston Avenue. This intersection is adjacent to Pasadena City College and was identified in the Bicycle Plan as a Roseway, connecting the upcoming Union Street Cycle Track to the current Cordova Street bike lanes. A traffic signal at this location will enhance pedestrian and bicyclist safety.

SCHEDULE: This project will begin when funding is identified.

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

HISTORY: This project was created in FY 2019 and is currently unfunded.

FY 2019 - 2023 Capital Improvement Program
 Transportation
 Traffic Signal at Orange Grove Blvd. and Craig Ave.

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Traffic Signal at Orange Grove Blvd. and Craig Ave.							
	Unfunded		500,000	0	0	0	0	0	500,000
	Total		500,000	0	0	0	0	0	500,000

DESCRIPTION: This project provides for the installation of a traffic signal at the intersection of Orange Grove Boulevard and Craig Avenue.

JUSTIFICATION: The intersection of Orange Grove Boulevard and Craig Avenue is located near the mid-point of an almost one-mile uninterrupted segment of Orange Grove Boulevard (between Allen Avenue and Altadena Drive). This intersection meets the coordinated signal systems warrant as defined in the California Manual on Uniform Traffic Control Devices, and provides a right-of-way control point to group traffic and improve traffic flow. Craig Avenue is identified as a Bicycle Boulevard in the Mobility Element of the General Plan, and installing a traffic signal at this intersection provides a controlled crossing point for bicyclists and pedestrians. In 2017, the City received a request to re-evaluate the potential for a traffic signal at this intersection due to collisions at the intersections. A new traffic signal warrants analysis was conducted and the traffic signal still meets the coordinated signal systems warrant.

SCHEDULE: This project will begin when funding is identified.

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

HISTORY: This project was created in 2019 and is currently unfunded. The original project was created in FY 2006 and fully funded in FY 2007. However, due to opposition of the project from a group of residents, the project was never constructed and interim safety enhancements were installed in lieu of the traffic signal. Enhancements included restricting the northbound through and northbound left turn movement from Craig Avenue, creating a northbound right turn only at the intersection of Craig Avenue and Orange Grove Boulevard. In addition, an intersection ahead sign, supplemented by a beacon, was installed on Orange Grove Boulevard for the eastbound approach to the intersection.

FY 2019 - 2023 Capital Improvement Program
 Transportation
 Traffic Signal Operations and Maintenance Assessment

Priority	Project No.	Description	Total Estimated Costs	Appropriated Through FY 2018	Recommended FY 2019	Proposed FY 2020	Proposed FY 2021	Proposed FY 2022	Proposed FY 2023 and Beyond
NEW		Traffic Signal Operations and Maintenance Assessment							
	Unfunded		200,000	0	0	0	0	0	200,000
	Total		200,000	0	0	0	0	0	200,000

DESCRIPTION: This project provides for a Traffic Signal Operations and Maintenance Assessment that will develop a traffic signal infrastructure maintenance and operations plan, and incorporate the funding required to systematically upgrade the aging traffic signal infrastructure. This project also provides an inventory and assessment of the current traffic signal infrastructure including life expectancy of existing traffic signal equipment, traffic signal poles and signal equipment, safety lighting, ADA accessibility, vehicle detection, signal controllers, closed circuit television, in-roadway lighting and communications.

JUSTIFICATION: In the past 40 years, traffic signal hardware in Pasadena has been installed to facilitate safe and efficient movement of people and goods throughout the City. Traffic signals play an integral role and it is critical to define the needs for equipment replacement and prioritization of projects. In addition, intelligent transportation systems were added to further enhance the operation of the traffic signals and much of the infrastructure is nearing the end of its useful life. Video detection camera systems are failing and outdated traffic signal controller cabinets do not have the functionality or space required to meet the demand of new equipment needs. Lastly, traffic signal mast arms installed on concrete streets lights have the potential of failing in high wind conditions and therefore require systematic replacement of precast concrete street light poles utilized for traffic signal purposes.

SCHEDULE: This project will begin when funding is identified.

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

IMPACT ON THE NORTHWEST: Portions of this project are located in Northwest Pasadena which is a location that has been targeted from revitalization.

HISTORY: This project was created in FY 2019 and is currently unfunded.

Recommended FY2019 CIP - Summary Report (Future Projects)

Streets and Streetscapes

Priority New	Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY18	Expenditures as of 2/15/2018	Encumbrances as of 2/15/2018	Project Balance as of 2/15/2018	FY19 Anticipated Expenditures	FY19 Proposed Appropriation	Funding Sources	FY19 Proposed Schedule
11	16		Pedestrian Safety Enhancements on Oak Knoll Ave	300,000	0	0	0	0	0	0		This project will begin when funds are identified.
12	18		Intersection Improvements at Colorado Blvd and Garfield Ave	257,850	0	0	0	0	0	0		This project will begin when funds are identified.
13	* 17		Route 210 Freeway Soundwalls	38,610,000	0	0	0	0	0	0		This project will begin when funds are identified.
14	19		Improvement of Green Street - Orange Grove Blvd. to Hill Avenue	3,620,882	0	0	0	0	0	0		This project will begin when funds are identified.
15	20		South Lake Streetscapes Improvements - Phase II	2,700,000	0	0	0	0	0	0		This project will begin when funds are identified.
16	21		Safe Routes to School - Sidewalk Repairs	1,000,000	0	0	0	0	0	0		This project will begin when funds are identified.
17	22		Fair Oaks/Orange Grove Specific Plan - Transportation Issues - Future Unfunded	3,500,000	0	0	0	0	0	0		This project will begin when funds are identified.
18	23		East Colorado Boulevard Specific Plan - Future Unfunded	4,000,000	0	0	0	0	0	0		This project will begin when funds are identified.
19	24		North Lake Specific Plan - Future Unfunded	4,000,000	0	0	0	0	0	0		This project will begin when funds are identified.
20	25		East Pasadena Specific Plan - Phase II	5,000,000	0	0	0	0	0	0		This project will begin when funds are identified.
21	26		South Fair Oaks Specific Plan - Future Unfunded	3,500,000	0	0	0	0	0	0		This project will begin when funds are identified.
22	27		Civic Center/Mid-Town Public Improvements and Related Components - Phase II	8,500,000	0	0	0	0	0	0		This project will begin when funds are identified.
23	29		New York Drive Bridges - Preventive Maintenance	2,181,000	0	0	0	0	0	0		This project will begin when funds are identified.
24	28		San Rafael Bridge - Seismic Retrofit	5,966,000	0	0	0	0	0	0		This project will begin when funds are identified.
25	30		Arroyo Boulevard Bridge - Seismic Retrofit	1,461,000	0	0	0	0	0	0		This project will begin when funds are identified.

Recommended FY2019 CIP - Summary Report (Future Projects)

Streets and Streetscapes

Priority New	Priority Old	Project#	Project Name	Total Estimated Cost	Appropriated thru FY18	Expenditures as of 2/15/2018	Encumbrances as of 2/15/2018	Project Balance as of 2/15/2018	FY19 Anticipated Expenditures	FY19 Proposed Appropriation	Funding Sources	FY19 Proposed Schedule
26	31		Pasadena Avenue and St. John Avenue Street Improvements	3,120,000	0	0	0	0	0	0		This project will begin when funds are identified.
27	32		Sierra Madre Boulevard Slope	247,000	0	0	0	0	0	0		This project will begin when funds are identified.
Grand Total:				49,763,732	0	0	0	0	0	0		

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

Recommended FY2019 CIP - Summary Report (Future Projects)

Transportation

Priority New	Project# Old	Project Name	Total Estimated Cost	Appropriated thru FY18	Expenditures as of 2/15/2018	Encumbrances as of 2/15/2018	Project Balance as of 2/15/2018	FY19 Anticipated Expenditures	FY19 Proposed Appropriation	Funding Sources	FY19 Proposed Schedule
37	30	Traffic Signal and Pedestrian Improvements on Kinneloa Ave. at Del Mar Blvd.	770,000	0	0	0	0	0	0		This project will begin when funding is identified.
38	46	Traffic Signal at Orange Grove Blvd. and Sunnyslope Ave.	481,000	0	0	0	0	0	0		This project will begin when funds are identified.
39	47	Traffic Signal at Electronic Dr. and Sierra Madre Villa Blvd.	860,000	0	0	0	0	0	0		This project will begin when funds are identified.
40	48	Complete Streets Project - Washington Blvd. (Pedestrian and Bicycle Improvement Project)	870,000	0	0	0	0	0	0		This project will begin when funds are identified.
41	49	Complete Streets Project - Orange Grove Blvd. (Pedestrian and Bicycle Improvement Project)	2,300,000	0	0	0	0	0	0		This project will begin when funds are identified.
42	50	Mountain Street Curb Extension	297,000	0	0	0	0	0	0		This project will begin when funds are identified.
43	51	Installation of Permanent Chokers in Bungalow Heaven - Phases II, III, IV	765,000	0	0	0	0	0	0		The design of Phase II, III, and IV will be completed when funds are identified.
44	52	Upgrade Traffic Signals to "Traffic Actuated" Signals	5,600,000	0	0	0	0	0	0		This project will begin when funds are identified.
45	53	Signal Preemption Equipment at Traffic Signals Citywide - Phase II	1,600,000	0	0	0	0	0	0		This project will begin when funds are identified.
Grand Total:			13,543,000	0	0	0	0	0	0		

FY 2019 - 2023 Capital Improvement Program
Completed Projects

Project#	Project Name
Streets and Streetscapes	
73913	Citywide Sidewalk ADA Improvements
73909	Pedestrian Accessibility FY 2016 / 2017
73925	Curb Ramp Pedestrian Accessibility Improvements FY 2017 - 2021
73910	Drainage Improvements on Streets with Flat Grades FY 2016 - 2020
73902	Bridge Improvements Citywide
73911	Installation/Replacement of Guardrails FY 2016 - 2020
73912	Old Pasadena Tree Grates and Frames
Transportation	
0	Crosswalk Enhancements and Curb Ramps
75048	Left Turn Signal Phasing at Colorado Blvd. and Orange Grove Blvd. and at Orange Grove Blvd. and Holly St.
75044	Pasadena Wayfinding System
75915	Federal and State Traffic Sign Compliance Program
75911	Intelligent Transportation System (ITS) Master Plan Implementation Phase III
75050	Upgrade Traffic Signal Heads on One-Way Streets
75082	Thermoplastic Pavement Marking - Pilot Program
0	Replacement of Loop Detection at Various Intersections