

City of Palo Alto City Council Staff Report

(ID # 10698)

Report Type: Study Session Meeting Date: 3/2/2020

Summary Title: CIP Projects Update December 2019

Title: Semiannual Update on the Status of Capital Improvement Program

Projects

From: City Manager

Lead Department: Public Works

Recommendation

This is an informational report to facilitate a Council Study Session discussion on the City's capital improvement program and the status of the 2014 Council Infrastructure Plan. No action by Council will be taken.

Executive Summary

The City Council and Palo Alto community can be proud of the City's capital improvement program (CIP). The CIP represents major investments into infrastructure functionality and sustainability, funded largely through the 2014 Council Infrastructure Plan as well as utility rates and various other sources totaling \$751 million through 204 projects over the next five years. Over the past five years, the City has completed 55 individual community-serving projects totaling nearly \$148 million of improvements.

The CIP also represents a major effort for much of the City workforce. The following table summarizes the status of all projects for the six-month period of July - December 2019.

	Active Pro	ojects	Construction	
Project Type	One-Time	Recurring	Phase (excludes Recurring)	Completed
Buildings & Facilities	34	10	9	1
Parks & Open Space	12	9	-	1
Streets & Sidewalks	4	6	-	-
Traffic & Transportation	13	5	2	1

Airport	2	-	1	-
Electric Fund	28	10	7	-
Fiber Optics Fund	1	2	-	-
Gas Fund	2	4	-	-
Storm Drain	3	1	-	-
Water Fund	7	7	2	-
Wastewater Collection Fund	5	4	1	2
Wastewater Treatment Fund	6	1	-	-
Totals	117	59	22	5

Background

This report provides Council with an update on the status of capital improvement program (CIP) projects. Prior to 2016, year-end and mid-year financial reports included very simplistic status updates on CIP projects. In contrast, this semiannual report provides more detailed and useful information for Council regarding general fund and enterprise fund projects that appear on Council agendas and will be visible throughout the community.

Discussion

Project Update Organization

The City has a robust capital improvement program, and a large number of individual projects are in progress at any given time. In the five-year CIP FY 2020-2024, there are 204 projects (capital, enterprise and internal fund projects) totaling \$751 million in funding. The attached CIP project tables are intended to provide Council a quick overview of each project, including budgetary information, the anticipated completion date, a brief description of the project scope, the current status of the project, and upcoming activities including Council actions. Also included in the report, is a list of all completed projects since the introduction of the Infrastructure Management System.

The 2014 Council Infrastructure Plan is a major focus of staff's capital improvement program efforts. The following table details the Total Project Budget and Total Actual Expenses through the first half of FY 2020 for the Infrastructure Plan projects.

Major/Significant Projects Summary

Significant milestones have been achieved on the Infrastructure Plan projects since June 2019. Basement and ground level concrete floors have been completed on the California Avenue Garage, the Highway 101 Pedestrian/Bicycle Bridge project awarded a construction contract in November, and phases 1 and 2 of the Charleston/Arastradero Corridor Project are complete. Current Infrastructure Plan project schedules can be found at http://www.infrastructure.cityofpaloalto.org/

<u>Council</u> <u>Infrastructure</u> Plan Projects	<u>CIP</u> Number	<u>Update</u>	Total Project Budget	Total Actual Expenses*
New Public Safety Building	PE-15001	Design Development phase was completed and Construction Document preparation is underway. Plans submitted for building permit in December 2019.	\$115,526,721	\$7,348,829
Bicycle and Pedestrian Transportation Implementation Plan	PL-04010	Project on hold pending recent project evaluation and review of future project scoping.	\$20,800,000	\$9,108,934
New Downtown Parking Garage	PE-15007	Certified EIR and approved land use actions. Project on hold pending review of downtown parking supply options.	\$29,097,382	\$1,438,546
New California Avenue Area Parking Garage	PE-18000	Construction on schedule and underway with basement and ground level concrete floors poured. Project completion is expected in summer 2020.	\$51,351,746	\$20,308,836
Charleston Arastradero Corridor Project	PE-13011	Phases 1 & 2 improvement are nearly complete. Phase 3 to start construction in spring 2020.	\$19,600,075	\$10,919,564
Fire Station 3 Replacement	PE-15003	Construction is nearly complete with only site landscaping and final permit sign-off remaining.	\$10,080,296	\$8,671,723
Highway 101 Pedestrian/Bicycle Overpass Project	PE-11011	The notice to proceed was issued to the contractor in January, site preparation is underway and bridge construction will start in February	\$24,592,167	\$5,281,292
Fire Station 4 Replacement	PE-18004	Under Development.	\$10,200,000	\$0
Byxbee Park Completion	PE-18006	On hold pending completion of Baylands Comprehensive Conservation Plan.	\$3,814,601	\$342,825
Downtown Parking Guidance System	PL-15002	Under Development.	\$2,977,803	\$130,937

^{*}Expenses as of January 28, 2020

Key considerations for the information presented in the project update tables include:

- Project status information is current as of December 2019
- The individual project tables align with the Capital Improvement Fund categories in the FY 2020-2024 capital budget: Buildings and Facilities, Parks and Open Space, Streets and Sidewalks, and Traffic and Transportation. Enterprise Fund projects follow the order of their respective Fund in the capital budget
- Additional project information is available in the FY 2020-2024 capital budget
- Cubberley Property Infrastructure Fund projects are included in the Buildings and Facilities table

- Each project table is divided into a section for one-time projects and a section for recurring projects that have ongoing annual funding
- Budgetary figures include staff oversight costs for projects to which staff costs have been allocated

Completed Projects

Projects completed in the first half of FY 2020, since the last update through June 2019 include the following:

Capital Improvement Fund (general fund)

- Downtown Mobility and Safety Improvements (PL-16001)
- Thermal Imaging Cameras Replacement (FD-20002)
- Cubberley Track and Field Replacement (CB-19000)

Enterprise Funds:

- Wastewater Collection System Rehabilitation Augmentation Project 24 (WC-11000)
- Wastewater Collection System Rehabilitation Augmentation Project 26 (WC-13001)

These completed projects do not include the significant amount of annual work completed under ongoing recurring projects, such as streets and sidewalks repairs, parking lot maintenance, roofing replacements, and regular maintenance of Utilities assets.

Cubberley Track and Field Replacement (CB-19000)



City of Palo Alto

Projects Under Construction

Projects that are currently under construction include the following:

Capital Improvement Fund (general fund):

- Animal Shelter Renovation (PE-19002)
- Charleston/Arastradero Corridor Project (PE-13011)
- Fire Station 1 Improvements (PF-14002)
- Fire Station 3 Replacement (PE-15003)
- Fire Ringdown System Replacement (FD-14002)
- High and Bryant Street Garages Waterproofing and Repairs (PE-18002)
- Highway 101 Pedestrian/Bicycle Overpass Project (PE-11011)
- JMZ Renovation (AC-18001)
- New California Avenue Area Parking Garage (PE-18000)
- Municipal Service Center lighting, Mechanical, and Electrical Improvements (PF-16006)
- Parking Lot J Elevator Modernization (PF-18000)
- Ventura Buildings Improvements (PE-15011)

Enterprise Funds:

- Airport Apron Reconstruction (AP-16000)
- Fiber Optic System Rebuild (FO-16000)
- HCB Pilot Wire Relay Replacement (EL-17005)
- Mayfield Reservoir Subgrade and Venting Repair (WS-19000)
- Rebuild Electrical Underground District 24 (EL-10006)
- Rebuild Electrical Underground District 19 (EL-11008)
- Reconfigure Quarry Feeders (EL-14005)
- Electrical Underground District 46 Charleston, El Camino Real (EL-12001)
- Electrical Underground District 47 Middlefield, Homer, Webster, Addison (EL-11010)
- Water Main Replacement Project 27 (WS-13001)
- Wastewater Collection System Rehabilitation / Augmentation Project 28 (WC-15001)
- Wastewater Collection System Rehabilitation / Augmentation Project 29 (WC-16001)
- Plant Master Plan (WQ-10001)
- Utility Site Security Improvements (EL-04012)

As described above for completed projects, the list of projects under construction does not include work currently being conducted under recurring CIP projects.

Below are some photos of projects under construction:

Charleston/Arastradero Corridor Project (PE-13011)







New California Avenue Area Parking Garage (PE-18000)









Resource Impact

Funding for the projects discussed in this report is provided in the FY2020 Capital Budget and 5-Year Plan.

Stakeholder Engagement

Stakeholder engagement is conducted separately for each project.

Attachments:

• ATTACHMENT A: CIP Project Updates and List of Completed Projects

DECEMBER 2019

ATTACHMENT A

Semiannual Update on the Status of Capital Improvement Program Projects

Capital Improvement Fund CIP Projects

- Buildings and Facilities Projects
- Parks and Open Space Projects
- Streets and Sidewalks Projects
- Traffic and Transportation Projects

Enterprise Fund CIP Projects

- Airport Projects
- Electric Projects
- Fiber Optics Projects
- Gas Projects
- Storm Drain Projects
- Water Projects
- Wastewater Collection Projects
- Wastewater Treatment Projects

List of Completed Projects

One-Time Projects

Baylands	Prior Years	Total Project	Implementing	Project	Project Completion
Boardwalk	Actuals	Budget	Department	Phase	
Improvements	\$2,240,522	\$22,200	Public Works	Completed	Winter 2019
(PE-14018)	construction contra completed in Janu wetlands by remov access zone need to	nct was awarded to any 2019. During coving vegetation and posterior coming, and planting nations.	Vortex Marine Construction, an equipmoples of the construction, an equipmoples of the construction of the	ction, Inc. in Jurent access zone on mats. These on The wetland r	alk on the same alignment. The ne 2018 and construction was a was constructed within the temporary impacts within the estoration will include grading, started in December 2019 and
Animal Shelter	Prior Years	Total Project	Implementing	Project	Project Completion
Renovation	Actuals	Budget	Department	Phase	, , , , , , , , , , , , , , , , , , ,
(PE-19002)	\$270,962	\$3,929,979	Public Works	Construction	Fall 2020
	agreement for ope	ration of the shelter	by Pets in Need appro	oved by City Co	al Shelter that accompany the uncil in November 2018. The on. The new kennel addition is
Water, Gas, Wastewater	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion
Office Remodel	\$5,996	\$754,437	Public Works	Design	Fall 2020
(PE-19001)	(WGW) office space needs of the depar operations and rep additional offices a	e at the Municipal Ser tment. This project place aging furniture nd cubicles for new s also be included with	will reconfigure the wo and finishes. The ne staff. Upgrades to lighti	current space nork-area so it is work-area so it is work-area will in ing, fire life syst	Gas Wastewater o longer meets the operational more efficient for department clude a small reception area, ems and enhancements to the ly in design, and construction is

Baylands Flood	Prior Years	Total Project	Implementing	Project	Project Completion
Protection Levee	Actuals	Budget	Department	Phase	
Improvements	\$266,666	\$1,353,765	Public Works	Pre-design	Fall 2020
(PE-17006)	network of flood View. The proje impacts of 50 ye Francisquito Cree Bayfront levees k SAFER Bay Feasib	I protection levees in ect will be designed ears of future sea le ek Joint Power Autho between Mountain Vi bility Study. The draft view and for discussion	the Palo Alto Bayland to provide 1% (100 ye vel rise. This project ority (JPA) SAFER Bay I iew and Redwood City. Feasibility Study was re	s between San I ear) protection f may be impleme Project, which is The project is or leased in June 20	v of improvements to the existing rancisquito Creek and Mountain rom tidal flooding, including the ented as an element of the Sar designing improvements to the hold pending completion of the D19. The report will be presented as should be advanced into design
Cardiac Monitor Replacement	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion
(FD-20000)	\$0	\$850,000	Fire	Pre-Design	Summer 2021
	with other tools in patients and p	needed for patient as rovide defibrillation a	ssessment and airway ve	erification, cardia ment has encuml	onitors in the Department. Along no monitors assess cardiac activity pered the funds and it is currently
City Facilities	Prior Years	Total Project	Implementing	Project	Project Completion
Assessment and	Actuals	Budget	Department	Phase	
Record Plan	\$0	\$314,000	Public Works	Design	Fall 2020
Management System (PE-20002)	facility condition opportunity to d	assessment is warrar evelop a new electro	nted per the City's APW onic system for managir	A reaccreditation of the record place	ility condition assessment. A new n requirements. It is also an idea nns of all City facilities. Currently ecord plans are still only availabl

	indexed system	that will be easily acce	ssible to all City staff.		
City Hall Space Planning	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion
(PE-19000)	\$0	\$81,932	Public Works	Pre-Design	Fall 2024
		r the City Hall office bu			e workgroup space needs and ary design of the space following
Civic Center	Prior Years	Total Project	Implementing	Project	Project Completion
Electrical Upgrade & EV	Actuals \$87,860	Budget \$991,581	Public Works	Phase Design	Spring 2021
(PE-17010) Civic Center Fire		ect is to install 13 du V charger installations Total Project	_	rs in City parking Project	g garages. Design is currently in Project Completion
Life Safety	Actuals	Budget	Department	Phase	1 Toject completion
Upgrades	\$16,624	\$627,018	Public Works	Design	Summer 2020
(PE-18016)	system is appro	aching the end of its et current code requi	useful life. The fire a	alarm panels and	alarm system. The fire life safety I associated equipment need an currently being prepared for a
Civic Center	Prior Years	Total Project	Implementing	Project	Project Completion
Waterproofing	Actuals	Budget	Department	Phase	
Study and Repairs	\$54,493	\$742,555	Public Works	Design	Fall 2020
(PE-15020)	_				r plaza deck structural system. In The results indicated that the

Fire and Utilities Trench Training Facility	Prior Years Actuals \$0	Total Project Budget \$110,000	Implementing Department Fire	Project Phase Design	Project Completion Summer 2020
Systems (CB-19001)	Project Status: Thi Wing I, and Gyms installation of cont	s project replaces the A and B boiler room rol points for each b	Building Management S	System (BMS) community Center rollers, valve a	ontrols for the Pavilion, Theater, r. The project will include the
Building Management	Actuals \$0	Budget \$ 360,807	Department Public Works	Phase Design	Winter 2020
Cubberley	services was release community co-design concept layouts of	ed in November 2017 gn meetings, comple a future site. A drai community for input	. In the first half of fisco ted a needs assessment ft Cubberley Concept Pl	al year 2019, th t and program an was complet	e consultant has facilitated two document, and developed four ted in November 2019 and was began and is expected to be Project Completion
Plan (CB-16001)	Project Status: Thi	s project supports t	he development of a I	Master Plan fo	r future use of the Cubberley for master planning consultan
Community Center Master	Actuals \$505,301	Budget \$616,592	Department Community Services	Phase Design	Summer 2020
Cubberley	estimated to begin i	Total Project	Implementing	Project	g amended and construction is Project Completion

Fire Ringdown	Prior Years	Total Project	Implementing	Project	Project Completion
System	Actuals	Budget	Department	Phase	
Replacement	\$244,144	\$353,300	Fire	Construction	Winter 2020
(FD-14002)	service in the fire	e stations. A vendor was	selected through a coop on the rebuild of Fire Sta	perative purchase etion 3 to comp	ides an audible alert of calls for sing agreement. Installation has lete the project simultaneously.
Fire Station 1	Prior Years	Total Project	Implementing	Project	Project Completion
Improvements	Actuals	Budget	Department	Phase	
(PF-14002)	\$73,510	\$187,067	Public Works	Construction	Summer 2020
	Project Status: (pad work remain		plete with only paintin	g, skylight repla	scement, and outdoor concrete
Fire Station 3	Prior Years	Total Project	Implementing	Project	Project Completion
Replacement	Actuals	Budget	Department	Phase	
(PE-15003)	\$7,656,982	\$10,080,296	Public Works	Construction	Winter 2020
	new structure th 3 at 2000 Geng continued into 2 2019 the interio	nat meets essential servic Road has been complet 2019 with some challeng	es standards and currented. Construction on the searlier this year that is nearly completed. Site	t program need ne new Fire Stat t impacted the perion and the perion in the period in	o Road and Newell Road with a s. The Temporary Fire Station # tion began in January 2018 and projected schedule. During fall nd final permit sign-off are the 020.
Fire Station 4	Prior Years	Total Project	Implementing	Project	Project Completion
Improvements	Actuals	Budget	Department	Phase	
(P-18004)	\$0	\$10,200,000	Public Works	Pre-design	Spring 2022
	East Meadow D	• •	facility will be based	on the prior F	corner of Middlefield Road and Replacement Study and Needs etion of Fire Station #3.
High and Bryant	Prior Years	Total Project	Implementing	Project	Project Completion

Street Garages	Actuals	Budget	Department	Phase	
Waterproofing	\$31,728	\$352,730	Public Works	Construction	Summer 2020
and Repairs	Project Status: This	project includes a st	udy for analysis and rep	pairs to the wat	er proofing system in the High
(PE-18002)	parking garage. Re	pairs are 75% comple	, ,	garage as addit	completed in the High Street onal repairs are needed in the he garage.
Internal Alarm	Prior Years	Total Project	Implementing	Project	Project Completion
System	Actuals	Budget	Department	Phase	
Replacement	\$50,759	\$77,569	Police	Design	Fall 2020
(PD-14000)	Project Status: This	project will replace th	e citywide Internal Aları	m System. The	City Hall alarms migrated to the
	new system in FY 20 2020.	019. There are on-go	ing discussions about ac	lding additional	sites and a CAD interface in FY
JMZ Renovation	Prior Years	Total Project	Implementing	Project	Project Completion
(AC-18001)	Actuals	Budget	Department	Phase	
	\$1,041,302	\$4,587,156	Community Services	Construction	Summer 2020
	•	• •			oo to the Cubberley auditorium the Cubberley auditorium was
	,	, ,	_		im in June 2018 and opened to
	•				306K in April 2019) for the new
	· ·	• • • • •		•	en the Friends of the JMZ and
	1 -		· · · · · · · · -		June 2018 and is now 85%
	•				mately two additional months
	•	•		• •	20. Individual Exhibits are in a
	-		•	•	s in fabrication, and others still
		-		•	lic opening of the new JMZ is
	scheduled for Octob	er 3, 2020.			· -
Municipal Service	Prior Years	Total Project	Implementing	Project	Project Completion
Center Lighting,	Actuals	Budget	Department	Phase	

Mechanical, and	\$931,209	\$7,218,775	Public Works	Design	Winter 2021
Electrical	Project Status: This	project replaces origin	nal mechanical, electrica	I, and lighting sy	ystems installed in 1966. It also
Improvements (PF-16006)	_				group. Bids for the site-wide unding was added for FY 2020.
	A contract amendm	nent with the design of	consultant is currently in	n negotiation to	better prepare the facility for
	electrification in the	future. The consulta	nt will modify the desigr	and it will be is	sued for bids again in FY 2020.
Municipal Service	Prior Years	Total Project	Implementing	Project	Project Completion
Center A, B, & C	Actuals	Budget	Department	Phase	
Roof	\$0	\$2,146,289	Public Works	Design	Winter 2021
Replacement (PF-17000)	gravel roof is nearing deteriorate beyond roofing system would efficiency. Project Mechanical, and E	ng the end of its usef I a certain point, the uld be required. The I dates have been a lectrical Improvemen	ul life and needs to be fluid applied system can application will meet of djusted to coordinate at project (PF-16006). The to the condition of the	rehabilitated. If annot be used urrent cool roo with the Mun Roof replacem roofs.	g roof. The existing asphalt and the existing roof is allowed to and a full replacement of the fing codes to optimize energy icipal Service Center Lighting, ent will be done before the
Avenue Area	Actuals	Budget	Implementing Department	Project Phase	Project Completion
Parking Garage			Department	riiase	
	50.532.093	S51.351.746	Public Works	Construction	Summer 2020
(PE-18000)	\$6,532,693 Project Status: This	\$51,351,746 project will provide a		Construction Area Parking G	
(PE-18000)	Project Status: This	project will provide a	new California Avenue	Area Parking G	Summer 2020 arage, part of the 2014 Council ing Project. The Public Safety
(PE-18000)	Project Status: This Infrastructure Plan	project will provide a and is being coording	new California Avenue ated with the new Pub	Area Parking G lic Safety Build	arage, part of the 2014 Council
(PE-18000)	Project Status: This Infrastructure Plan Building will be place	project will provide a and is being coordin ced on Lot C-6 while the	new California Avenue ated with the new Pub ne new garage will be pl	Area Parking G lic Safety Build aced on Lot C-7	arage, part of the 2014 Council ing Project. The Public Safety
(PE-18000)	Project Status: This Infrastructure Plan Building will be place 2019 and has proceed.	project will provide a and is being coordin ced on Lot C-6 while the	new California Avenue ated with the new Pub ne new garage will be pl with a portion of the gro	Area Parking G lic Safety Build aced on Lot C-7	arage, part of the 2014 Council ing Project. The Public Safety . Construction began in winter
(PE-18000) New Public Safety	Project Status: This Infrastructure Plan Building will be place 2019 and has proceed.	project will provide a and is being coordin ced on Lot C-6 while the eeded on schedule w	new California Avenue ated with the new Pub ne new garage will be pl with a portion of the gro	Area Parking G lic Safety Build aced on Lot C-7	arage, part of the 2014 Council ing Project. The Public Safety . Construction began in winter
	Project Status: This Infrastructure Plan Building will be place 2019 and has proceed Project completion in	project will provide a and is being coordin ced on Lot C-6 while the eeded on schedule w is expected in summer	n new California Avenue ated with the new Pubne new garage will be plotted a portion of the grow 2020.	Area Parking G lic Safety Build aced on Lot C-7 ound floor cond	arage, part of the 2014 Counciling Project. The Public Safety Construction began in winter crete placed in late December.
New Public Safety	Project Status: This Infrastructure Plan Building will be place 2019 and has proce Project completion in Prior Years	project will provide a and is being coordin- ced on Lot C-6 while the eeded on schedule w is expected in summer	new California Avenue ated with the new Pub ne new garage will be ploith a portion of the grown 2020.	Area Parking G lic Safety Build aced on Lot C-7 ound floor cond Project	arage, part of the 2014 Counciling Project. The Public Safety Construction began in winter crete placed in late December.

	in the California Av Infrastructure Plan.	enue business district The PSB plans were ce in spring 2020 with	are now an integrated submitted for building p	project and bo permit review in	nents. The PSB and new garage th are part of the 2014 Council n late December 2019. Project te new California Avenue garage
New Downtown	Prior Years	Total Project	Implementing	Project	Project Completion
Parking Garage	Actuals	Budget	Department	Phase	
(PE-15007)	\$1,407,820	\$29,097,382	Public Works	Design	Summer 2022 arking garage in the University
	2018. In February 2 and Reporting Prog	019, the City Council or ram. The Record of La City returns to the Po	certified the EIR by adop and Use Action was app	oting the Resolu roved for three	received ARB approval in July ation and Mitigation Monitoring (3) years and the project is oner discussion on the downtown
Parking Lot J	Prior Years	Total Project	Implementing	Project	Project Completion
Elevator	Actuals	Budget	Department	Phase	
Modernization	\$413,998	\$781,324	Public Works	Construction	Spring 2020
(PF-18000)	_		_		The project involves upgrading
			control interface, call b e project is approximatel		eeting current ADA standards.
Performing Arts	Prior Years	Total Project	Implementing	Project	Project Completion
Venues Seat	Actuals	Budget	Department	Phase	
Replacement (AC-	\$0	\$419,000	Community Services	Design	Summer 2020
18000)	revised to replace a	II the seats in the Cor	he self-rise mechanism mmunity and Children's	in three venue Theatre. Staff i	s for performing arts has been s working to determine if there he RFP can move forward.

Police Video	Prior Years	Total Project	Implementing	Project	Project Completion
Recording	Actuals	Budget	Department	Phase	
Systems	\$0	\$300,000	Police	Design	Winter 2021
Replacement (PD-20000)	events in the field introduced in 2011 to 8 hours, secure need to be replace	with in-car cameras a 3. In-car systems are d to the officer's unif	as well as body-worn ca fixed in the vehicles an orm. The in-car video s 021. The BWCs are und	nmeras (BWC). The d BWCs operate system is nearing	ording systems used to record ne in-car camera technology was on rechargeable batteries for up the end of its service life and withe current fiscal year after a one
Self-Contained	Prior Years	Total Project	Implementing	Project	Project Completion
Breathing	Actuals	Budget	Department	Phase	
A = = = = (CCD A)	\$0	\$ 86,000	Fire	Pre-Design	Summer 2021
Air Compressor	Project Status: Th	nis project replaces t	he central air compres	sor that provide	s air for Self-Contained Breathi
Air Compressor Replacement	Project Status: The Apparatus (SCBA)	is project replaces t tanks to ensure firefi	he central air compres	sor that provide	
Air Compressor Replacement (FD-20001)	Project Status: The Apparatus (SCBA)	is project replaces t tanks to ensure firefi	he central air compres ghter safety when ente	sor that provide	s air for Self-Contained Breathi
Air Compressor Replacement (FD-20001) Self-Contained	Project Status: The Apparatus (SCBA) Department is res	is project replaces to tanks to ensure firefi earching potential ve	he central air compres ghter safety when ente ndors and collecting pr	sor that provide ring environmen icing.	s air for Self-Contained Breathints with hazardous air quality. The
Air Compressor Replacement (FD-20001) Self-Contained Breathing Apparatus	Project Status: The Apparatus (SCBA) Department is result Prior Years Actuals \$730,139	ris project replaces to tanks to ensure firefice earching potential ve Total Project Budget \$ 799,999	he central air compres ghter safety when ente ndors and collecting pr Implementing Department Fire	sor that provide ring environmenticing. Project Phase Design	Project Completion Winter 2020
Air Compressor Replacement (FD-20001) Self-Contained Breathing Apparatus Replacement	Project Status: The Apparatus (SCBA) Department is researched by Prior Years Actuals \$730,139 Project Status: The When entering has provides breathald dangerous to life 2018, 26 percent approaching the example of the status o	Total Project Budget \$ 799,999 is project replaces Secure for firefighter or health. The expect of the Palo Alto Fire I and of their useful life.	he central air compres ghter safety when ente ndors and collecting pr Implementing Department Fire elf Contained Breathing when responding to firs when entering envirted service life for SCB. Department (PAFD) SCB	Project Phase Design Apparatus equire and hazardor ronments where As is 15 years. We had and Bluetooth comments and Bluetooth comments comments where and Bluetooth comments and Bluetooth comments and Bluetooth comments and Bluetooth comments and Bluetooth comments are provided and Bluetooth are provided and Bluetooth comments are provided and Bluetooth are provided and Bl	Project Completion Winter 2020 pment (SCBA) used by firefighte us materials incidents. The SCE the atmosphere is immediate then this project was funded in eir useful life and 41 percent we onnectivity components are being
Apparatus (SCBA) Air Compressor Replacement (FD-20001) Self-Contained Breathing Apparatus Replacement (FD-18000) Thermal Imaging	Project Status: The Apparatus (SCBA) Department is researched by Prior Years Actuals \$730,139 Project Status: The When entering has provides breathald dangerous to life 2018, 26 percent approaching the example of the status o	Total Project Budget \$ 799,999 is project replaces Secure for firefighter or health. The expect of the Palo Alto Fire I and of their useful life.	Implementing Department Fire elf Contained Breathing when responding to firs when entering envited service life for SCB. Department (PAFD) SCB. E. Final coupling units	Project Phase Design Apparatus equire and hazardor ronments where As is 15 years. We had and Bluetooth comments and Bluetooth comments comments where and Bluetooth comments and Bluetooth comments and Bluetooth comments and Bluetooth comments and Bluetooth comments are provided and Bluetooth are provided and Bluetooth comments are provided and Bluetooth are provided and Bl	Project Completion Winter 2020 pment (SCBA) used by firefighte us materials incidents. The SCE the atmosphere is immediate then this project was funded in eir useful life and 41 percent we onnectivity components are being

Replacement	\$0	\$ 99,000	Fire	Completed	Fall 2019
(FD-20002)	Project Status: This	project replaced the	Thermal Imaging Camer	as (TICs) on all	fire and response vehicles used
	to help identify the	location of victims; as	ssess the source of fires	, smoke, and he	eat; and create a plan of action.
	Two thermal imagir	ng cameras were appr	oved for purchase as pa	rt of the Fiscal \	Year 2019 Mid-Year Review and
	the remaining nine	will be replaced with t	this project. All remainii	ng cameras have	e been purchased and delivered
	and will be put into	use in FY 2020.			
				I	
Ventura Buildings	Prior Years	Total Project	Implementing	Project	Project Completion
Improvements	Actuals	Budget	Department	Phase	
(PE-15011)	\$560,860	\$2,525,420	Public Works	Construction	Fall 2020
	Project Status: Th	is project replaces a	and upgrades the med	hanical and ele	ectrical systems and provides
	accessibility improv	ements for the Vento	ura facility. Advanced I	Design Consulta	nts was awarded a contract in
	August 2016 for des	sign services. Bids rec	eived for the project exc	ceeded the bud	get and the project was on hold
	until additional fund	ding was available thro	ough the FY 2020 budge	t. The project w	vill resume in spring 2020 with a
	new solicitation and	l anticipated construct	tion contract will be awa	rded in the sum	nmer 2020.

Recurring Projects

Americans With	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion
Disabilities Act			Department		
Compliance	\$227,637	\$822,220	Public Works	N/A	Recurring
(PF-93009)		project provides accessibility ements such as path of travel			
	includes Council ad December 17, 2018 the ADA Transition and survey respons report was submitt	option of the update to the continuous approved an amend Plan update. The public outries were compiled and taken ed to the City by our consultance appeted to go to Council for acceptance.	itywide ADA Transition ment to the consultant each process for the control into consideration to ints for review and fin	n Plan that began t contract for publ updated plan was the ADA Transitio alization in Septen	in November 2015. On ic outreach to complete completed in June 2019 n Plan Schedule. A final

Roth Building Maintenance	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
(PF-07011)	\$1,420	\$41,073	Public Works	N/A	Recurring		
	service, and a new	project is for window repairs ventilation system at the Roth such time that the building is I	building. In addition,		allation of electrical		
Building Systems	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion		
Improvements	40000	****	Department	Construction			
(PF-01003)	\$26,223	\$419,991 s project provides electrical, 1	Public Works	N/A	Recurring		
City Bridge	constraints. The ne completed during the completed during the complete during the comp	ew cooling tower fill media for the winter months. Current Year Budget	City Hall is now plans	ned for Winter 202	20 since the work is to be Project Completion		
Improvements	Piloi feai Actuals	Current rear Budget	Department	Project Phase	Project Completion		
(PE-20001)	\$0	\$16,000	Public Works	N/A	Recurring		
	years. This progra	s project includes bridge mair am will include on-going for work to be done, and addi dustry standards.	inspections to repo	rt physical chan	ges to the structures,		
City Facility Parking Lot	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
Maintenance	\$27,831	\$1,024,611	Public Works	N/A	Recurring		
(PE-09003)	Project Status: This project maintains parking lots and walkways at City facilities. The parking lot resurfacing at Fire Station #1, as part of the FY 2019 overlay project was completed in fall 2019						

Cubberley Roof Replacements	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion
(CB-16002)	\$282,779	\$577,200	Public Works	N/A	Recurring
		s project replaces existing roo Cubberley Wings F and FH ro			
Cubberley	Prior Years	Current Year Budget	Implementing	Project Phase	Project Completion
Repairs	Actuals		Department		
(CB-17001)	\$84,889	\$761,862	Public Works	N/A	Recurring
		project is for general mainte eted to address trip and fall in	r general maintenance needs of the Cubberley campus.	bberley campus. S	everal more concrete
Facility Interior Finishes	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion
Replacement	\$75,238	\$1,175,656	Public Works	N/A	Recurring
	paint, lighting, ceiling safety, mechanical reconfiguration is Collections area is in Children's Library of	s project improves the intering tiles, soundproofing, and electrical and plumbing complete, and installation on process and includes new for free replacement schedule odel scheduled to be completed.	fixed office furniture ode compliance requi will be in February 2 urniture, new casewor ed to be completed in	, doors, windows, rements. Design 020. Conceptual ok, and painting of summer 2020.	and associated fire/life for the OMB furniture design for the Revenue the interior office space.
Roofing Replacement	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion
(PF-00006)	\$770,934	\$712,014	Public Works	N/A	Recurring
	roof replacement delayed due to ro	s project replaces existing roo for the Ventura Community of modifications required fo of and Mitchell Park Tiny Tot	Center has been co r current remodel of	mpleted. Animal facility. Bayland	Shelter roof recoating s Athletic Center Snack

University	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion
Avenue Parking			Department		
Improvements	\$48,116	\$361,100	Public Works	N/A	Recurring
(PF-14003)	Project Status: Th	is project maintains parking	g lots and parking s	structures within	the University Avenue
		s Parking District. After Park have been resurfaced and no	· ·		9, all University Avenue

One-Time Projects

Baylands	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project			
Comprehensive			Department		Completion			
Conservation Plan	\$322,220	\$431,029	Community Services	Design	Summer 2020			
(PG-17000)	Project Status: This p	project develops a conserv	ation plan examining na	tive vegetation, wildlife	e habitat, and public			
	access for trails, recr	eation amenities, and into	erpretive messaging. St	aff interviewed and se	elected a consultant,			
	AECOM, to create the	plan. Staff and the consult	ant have created an exis	ting conditions report, f	ormed a stakeholder			
		up, held three stakeholder	<u> </u>	<u>-</u>	-			
		eloped conceptual plans fo						
		cess and upon completion	the Baylands Compreher	nsive Conservation Plan	will be presented to			
	Council for formal add	ption.						
5 1 1 4 11 1 11		I = =	T	Ta	T			
Baylands Athletic	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project			
Center 10.5 Acre	***	4	Department		Completion			
Expansion	\$10,402	\$115,132	Community Services	Pre-Design	Summer 2020			
(PG-19001)	Project Status: This project includes conceptual plans and public outreach for future use of an additional 10.5 acre							
	expansion of the Baylands Athletic Center from land that was previously part of the golf course. With completion of the wetland delineation and in consultation with an Ad Hoc committee of the Parks and Recreation Commission, staff							
					•			
	is developing a scope	to hire a consultant to cond	luct public outreach and	orepare a conceptual de	esign.			
Byxbee Park	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project			
Completion		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Department	.,	Completion			
(PE-18006)	\$342,825	\$3,814,601	Public Works	Pre-Design	Winter 2022			
	Project Status: This project allows for the remaining improvements to Byxbee Park that follows the completion of the							
	landfill capping work. The Baylands Comprehensive Conservation Plan (BCCP), which is currently undergoing CEQA							
	analysis, includes development of a conceptual plan for Byxbee Park. The BCCP and the conceptual plan for Byxbee							
	analysis, includes dev	elopilient of a conceptual	plan for byxocc rain. It		. ,			
		ummer 2020 and will be us	·	sign and construction.	,			
Foothills Park,			·	sign and construction. Project Phase	Project			

Arastradero	\$0	\$486,096	Community Services	Pre-Design	Winter 2023			
Preserve and	Project Status: This project creates a comprehensive conservation plan for Foothills Park, Pearson Arastradero							
Esther Clark Park	Preserve, and Esther (Preserve, and Esther Clark Park. The plan will provide guidance on wildlife and habitat management, public access and						
Conservation Plan								
(PG-17001)	, ,	nd recreation management	. The plan will also provid	le priorities, which will I	nelp guide resources			
	to the most important	t projects.						
Boulware Park	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project			
Improvements			Department		Completion			
(PE-17005)	\$100,462	\$550,805	Public Works	Pre-Design	Fall 2022			
		park renovation project wa		·	• •			
	'	ial purchase of the adjacer						
	purchased by the City. In response to the purchase, the City is currently utilizing the funding for the initial renovation							
	project for the design and outreach for both the existing park and the newly purchased park land. Additional funding							
	is being requested as part of the current CIP process to implement park renovations for the existing Boulware Park							
	and the new park land. A Community meeting to kick off the expanded park project was held in October 2019. A Parks and Recreation Commission meeting is planned for January 2020 with additional meetings to follow throughout 2020							
		- .	•	litional meetings to follo	ow throughout 2020			
	to finalize the design.	Construction is anticipated	in Fiscal Year 2022.					
Cameron Park	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project			
Improvements			Department		Completion			
(PG-14002)	\$0	6227.000						
	ŞU	\$237,000	Community Services	Pre-Design	Summer 2020			
		\$237,000 project upgrades and renova	·					
	Project Status: This p		tes safety and accessibili	ty features at Cameron	Park with a primary			
	Project Status: This p	roject upgrades and renova	tes safety and accessibili	ty features at Cameron	Park with a primary			
Cubberley Field	Project Status: This p focus on the park play	roject upgrades and renova ground. Project is currently	tes safety and accessibili in design planning phase	ty features at Cameron with staff. A communit	Park with a primary y meeting is planned			
Cubberley Field Restroom	Project Status: This p focus on the park play for March 2020.	roject upgrades and renova	tes safety and accessibili	ty features at Cameron	Park with a primary			

	Design for the project community meeting v	project will install a new rect started in fall 2018 alor was held on November 15, ne project is in design.	ng with public outreach.	Anticipated installation	on is in fall 2020. A		
Cubberley Track	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project		
and Field			Department		Completion		
Replacement	\$23,862	\$1,880,089	Public Works	Completed	Fall 2019		
(CB-19000)	project Status: This project was complete	oroject replaced the synth d in fall 2019.	etic turf field, installed a	n all-weather track and	a fitness area. The		
Foothills Park Dam	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project		
Seepage			Department		Completion		
Investigation and Repairs	\$0	\$36,000	Public Works	Pre-design	Winter 2021		
(PE-20000)	seepage is suspected	of the dam. The seepage is to be the trench backfill ar I investigate the pipe and t	ound the pipe that returns	•			
Ramos Park	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project		
Improvements			Department		Completion		
(PG-14000)	\$0	\$271,000	Community Services	Design	Summer 2021		
	replacing the existing	project includes safety a g park playground, benche munity outreach is planned	nd accessibility improveres, and drinking fountain,	as well as resurfacing	the basketball court		
Rinconada Park	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project		
Improvements			Department		Completion		
(PE-08001)	\$2,280,051	\$4,680,681	Community Services	Design	Summer 2020		
(FL-00001)	Project Status: This project provides upgrades to safety, site amenities, playground facilities, a new restroom,						

	irrigation, drainage a	nd accessibility improveme	nts at Rinconada Park. 1	These improvements we	ere identified in the			
	Rinconada Long Range Plan (LRP). The project schedule is currently being coordinated with the construction of the new Junior Museum and Zoo Project. The Parks and Recreation Commission recommended a Park Improvement Ordinance (PIO) for Council adoption in January 2020. Design and public outreach for the project has been performe							
	by in house staff. T	he project is anticipated t	to go out to bid in Feb	ruary 2020. According	to the LRP, future			
	improvement phases	would include renovatio	n to the eastern side	of the park, arbor ar	nd pool areas, and			
	development around	the electrical substation.						
	Prior Voars Actuals Total Project Budget Implementing Project Phase Project							
Turf Management	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project			
Turf Management Plan	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion			
ı	Prior Years Actuals	Total Project Budget \$118,000		Project Phase Pre-Design	_			
Plan	\$0		Department Community Services	Pre-Design	Completion Fall 2020			
Plan	\$0 Project Status: This	\$118,000	Department Community Services atural turf athletic fields	Pre-Design maintained and broke	Completion Fall 2020 red by the City for			
Plan	\$0 Project Status: This organized sports, and	\$118,000 project evaluates select na	Department Community Services atural turf athletic fields ons for improving the qu	Pre-Design maintained and broke uality and durability of	Completion Fall 2020 red by the City for the fields. Staff is			

Recurring Projects

Art In Public	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project			
Spaces			Department		Completion			
(AC-86017)	\$208,945	\$1,349,443	Community Services	N/A	Recurring			
	Project Status: This project provides the ongoing temporary and permanent artworks through							
	These funds are prir	marily comprised of poo	oled Municipal Percent	for Art allocations as well	as funds rolled over			
	from previous years	from previous years due to the multi-year nature of public art projects. The 2016 Public Art Master Plan						
	provides a ten-yea	r plan for the future	prioritization of public	art projects in Palo Al	to. FY 2020 funded			
	temporary public artwork at King Plaza, Cubberley, the area surrounding California Avenue Garage construction							
	site, and for the upo	coming Code: Art2 Fest	ival. Additional funds w	ere also used to hire a co	onsultant to create a			
	California Avenue Public Art Plan. Some of the current Municipal Projects in process for FY 2021 include							
	artworks for the Cl	narleston/Arastradero	Corridor, the Highway	101 Bike and Pedestria	n Bridge, the Public			

	Safety Building, and	public programming fo	r Code: ART2.				
Benches, Signage, Walkways,	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
Perimeter	\$420,374	\$207,000	Community Services	N/A	Recurring		
Landscaping (PG-06003)	landscaping at various Playing Fields, various was installed at the locations. In fall 2	ous City facilities. In sprous digital park director Peers Dog Park, and m	ing 2019, there were re ry maps were created aintenance gates were t Lytton Plaza were re	benches, signage, fer epairs to the pavers at for online applications, installed at various City placed. The fence at	the Stanford Palo Alto , wood fiber surfacing , Park and Open Space		
Dog Park	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project		
Installation and			Department		Completion		
Renovation	\$15,746	\$177,000	Community Services	N/A	Recurring		
	not been determin		ns are under consider	next dog park installate ation. Staff is meetin of existing dog parks.			
Off-Road Pathway Resurfacing and	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
Repair	\$0	\$455,000	Community Services	N/A	Recurring		
(OS-09001)	on inspections and	Project Status: This project resurfaces failing and broken pathways within the City. Pathways are chosen based on inspections and resident requests. The Adobe Creek Reach Trail will be built with the Highway 101 Pedestrian and Bicycle Overcrossing Project beginning in winter 2020.					
Open Space Lakes And Pond	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
Maintenance	\$14,406	\$102,800	Community Services	N/A	Recurring		

(OS-00002)	Project Status: This project rehabilitates lakes and ponds in open space nature preserves to protect habitat and recreational safety and to meet State Division of Safety of Dams requirements. The second a three-year contract to clear aquatic weeds at Boronda Lake is in progress and scheduled to be com September 2020.				
Open Space Trails and Amenities	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion
(OS-00001)	\$286,674	\$207,000	Community Services	N/A	Recurring
	the Baylands, and the May 2018, and the Pearson Arastrader	ne Pearson-Arastradero contractor has started	Nature Preserves. A co the annual trail work. s Park included 50 mile	ic areas, and campgroun ontract for trail maintend In fall 2019 the annual es of trails. At the south	ance was awarded in trail maintenance at
Park Restroom Installation	Prior Years Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion
(PG-19000)	\$0	\$414,000	Community Services	N/A	Recurring
	The restrooms may	be prefabricated, and ϵ	each installation will rec	hat currently do not hav quire a Park Improvemen a restroom at Ramos Park	t Ordinance. Staff is
Parks and Open Space Emergency	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion
Repairs	\$177,434	\$142,000	Community Services	N/A	Recurring
(PG-09002)	Project Status: This project replaces or repairs play grounds, play yard surfaces, wooden structures, park amenities, and play equipment in the event of storms, fire, vandalism or structural failure. In fall 2019 surface repairs were made to Peers Park tennis courts to prevent potential tripping hazards, the deteriorated wooden playground border at Bol Park was replaced and a damaged wooden pedestrian bridge at Briones Park was repaired.				

Athletic Courts	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project
Resurfacing			Department		Completion
(PG-06001)	\$55,378	\$266,200	Community Services	N/A	Recurring
	fall 2019 the tennis	• •	nd pickleball additions a	etball courts in various Pa t Mitchell Park was comp	•

One-Time Projects

California Avenue	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
District Gateway	Actuals	Budget	Department			
Signs	\$7,604	\$177,001	Public Works	Design	Winter 2020	
(PE-17004)	way for the Californ	ia Avenue business di	•	the Architectural R	ateway signs in the right-of- eview Board will be made in	
El Camino Median	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion	
Landscape	\$12,330	\$1,058,329	Public Works	Design	Fall 2022	
Newell Road/ San	designs will be cons	istent with the goals a		Camino Real Master	s, and groundcover. Median Planning Study. The project Project Completion	
Francisquito	Actuals	Budget	Department	.,		
Creek Bridge	\$1,367,302	\$4,831,259	Public Works	Pre-Design	Spring 2022	
Replacement (PE-12011)	Project Status: This project removes and replaces the Newell Road bridge over San Francisquito Creek with clear span to allow the channel to convey up to the natural capacity of the San Francisquito Creek approximately 7,500 cfs, and will provide improved safety for vehicular, bicycle, and pedestrian traffic. T project draft Environmental Impact Report (EIR) was released in spring 2019. This report analyzes potent traffic, aesthetic, and other environmental impacts and proposes appropriate mitigation measures. The project is being closely coordinated with the City of East Palo Alto, Santa Clara Valley Water District, and the S Francisquito Creek Joint Powers Authority (JPA). The EIR is anticipated to be certified by Council in spring 202 The design of the preferred alternative will be submitted to regulatory agencies for permits. Project constructions estimated to start as early as summer 2021.					
Streetlights	Prior Years	Total Project	Implementing	Project Phase	Project Completion	

Condition	Actuals	Budget	Department		
Assessment	\$8,799	\$241,481	Public Works	Design	Summer 2021
(PE-13014)		•			ty's streetlight system. Due 2020. An RFP will be issued

Recurring Projects

Curb and Gutter	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion		
Repairs		Budget	Department		. roject completion		
(PO-12001)	\$450,166	\$569,223	Public Works	N/A	Recurring		
	Project Status: This project repairs curbs and gutters uplifted by tree roots. For FY 2020, the curb and gu						
	locations are select	ed from a list report	ed by the public and e	valuated by Public	Works staff. This project is		
	combined with the	current year's Sidewa	ılk Repair Project (PO-89	9003). As of Decem	ber 2019, there were 1,300		
	linear feet of curbs	replaced and 3,000 sq	uare feet of gutter repa	ired at various loca	tions throughout the City.		
Sidewalk Repairs	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion		
(PO-89003)		Budget	Department				
	\$1,658,872	\$1,455,975	Public Works	N/A	Recurring		
	Project Status: This	project repairs and	replaces broken and u	plifted sidewalks.	The program completed all		
	twenty-three sidew	alk districts in 2017	, a thirty-year (1986 –	· 2017) sidewalk re	epair district cycle. Council		
	approved a sidewa	lk assessment contra	ct in November 2017	to evaluate the sid	dewalk program and assess		
	1 '				essment to compile a list of		
	_	•			ese priority locations were		
	1 '		•		square feet of driveway, and		
	brought 19 curb ramps up to ADA compliance as of December 2019.						
C							
Sign Reflectivity	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion		
Upgrade	4	Budget	Department				
(PO-11000)	\$10,207	\$246,663	Public Works	N/A	Recurring		

	of signs not meetin	g the minimum requ		om MUTCD approved	ining of all traffic signs. A list I Nighttime Visual Inspection ments.
Street Lights	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
Improvements		Budget	Department		
(PO-05054)	\$100,374	\$374,352	Public Works	N/A	Recurring
	restore or improve	street lighting.		·	res and wiring as needed to
Street	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
Maintenance		Budget	Department		
(PE-86070)	\$5,353,373	\$9,413,643	Public Works	N/A	Recurring
	2019. The citywide maintaining the 85 Resurfacing Project	PCI goal of 85 was m score while address performed over 1.6 wthorne Avenue fro	et at the end of caler sing the remaining so lane miles of resur	ndar year 2018, and t treets with PCI score facing, including Eve	od or excellent conditions, be emphasis will now shift to the street es less than 60. The Street erette Avenue from Alma to intenance Project has slurr
Thermoplastic	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
Lane Marking		Budget	Department		
and Striping	\$13,006	\$231,455	Public Works	N/A	Recurring
(PO-11001)	and striping is incorrestriped 27,270 line	porated into annual ear feet of thermopla	Pavement Preventive	Maintenance Project rom lane striping, cro	Thermoplastic lane marking ts. In FY 2020 the project has sswalk striping, and bike land

One-Time Projects

Charleston	Prior Years	Total Project	Implementing Department	Project Phase	Project Completion		
Arastradero	Actuals	Budget					
Corridor Project	\$7,254,489	\$19,600,075	Public Works	Construction	Fall 2020		
(PE-13011)	Project Status: This project is part of the Council Infrastructure Plan. It will reconfigure the Charleston Arastradero Corridor to provide new landscaped median islands, bulb outs, enhanced bike lanes and new street trees to complement the new lane configurations that were approved for permanent retention in 2008 and 2012. City Council approved the conceptual plan line for the corridor in September 2015. This project will be constructed in three phases. Remaining work for Phase 1 includes widening the Los Altos-Palo Alto Bike Path and remaining streetlight work. The contractor is completing punchlist work on Phase 2. The redesign of Phase 3 is wrapping up and expected to go out to bid in February 2020 and start construction in spring 2020.						
Churchill Avenue Alma Street	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion		
Railroad Crossing	\$0	\$4,814,000	Office of Transportation	Design	Summer 2021		
Safety Improvements (PL-20000)	Project Status : This project will design and construct pedestrian and bicycle safety improvements on the east side of the Churchill Avenue and Alma Street railroad crossing intersection. Design includes, but is not limited to, traffic signal modifications, street lighting improvements, roadway resurfacing, sidewalk realignment and/or widening, drainage improvements, utility relocations, signage and striping, innovative bicycle treatments, traffic calming elements, and way-finding improvements.						
Churchill Avenue	Prior Years	Total Project	Implementing Department	Project Phase	Project Completion		
Enhanced Bikeway	Actuals	Budget					
(PL-14000)	\$247,905	\$3,429,459	Office of Transportation	Design	Summer 2021		

	Project Status : This project includes the planning, design and construction of a shared-use path along the north side of Churchill Avenue between the existing shared-use path at Castilleja Avenue and the Stanford Perimeter Trail. It also includes intersection improvements at Churchill Avenue and El Camino Real, to include a new dedicated westbound right-turn lane. Design plans for the project are at 65% completion. Staff is aiming to finalize the design plans by July 2020 and begin construction soon after. An encroachment permit from Caltrans will need to be secured for the work within the El Camino Real right-of-way.					
Downtown Parking	Prior Years	Total Project	Implementing Department	Project Phase	Project Completion	
Wayfinding	Actuals	Budget				
(PL-15004)	\$445,082	\$1,163,180	Office of Transportation	Design	Fall 2021	
Project Status : This project included design and installation of new downtown parking wayfinding signal will incorporate a new parking brand for the City and replace the existing parking signage to improve of parking in Downtown Palo Alto. This project will be implemented in coordination with the Downtown underground utilities replacement project. The construction contract was awarded in Jan Signs were fabricated and delivered late fall 2018. Due to operational constraints and insufficient felectrification, the project has been suspended indefinitely.						
Highway 101 Pedestrian/Bicycle Overpass Project (PE-11011)	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion	
	\$5,096,952	\$24,592,167	Public Works	Construction	Summer 2021	

	new pedestrian brid for preliminary desi and June 2019 to approval of the pro funds authorization	dge across Highwagn and environme provide the final ject design, right-on (E-76) in August with Granite Con	ne Council Infrastructure Plan, y 101 at Adobe Creek. Councintal assessment services. The design and bidding/constructof-way certification, and encrost 2019. The project was issuestruction on November 18, 20 l.	l approved a desig contract was ame tion support servi pachment permit, (ed for bids in Au	n contract in May 2016 nded in December 2017 ces, respectively. Upon Caltrans granted federal gust 2019 and Council			
Downtown Mobility and	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion			
Safety	\$1,924,945	\$1,845,547	Office of Transportation	Completed	Fall 2019			
Parking			pedestrian signal heads and sown underground utilities repland the second limits and second limits and second limits are personal to the second limits and second limits are personal to the second limits are per	_	ications was completed Project Completion			
Management and	Actuals	Budget	promonang popurament	110,0001111000	i reject completion			
System	\$248	\$ 1,287,123	Office of Transportation	Design	Spring 2022			
Implementation (PL-16002)	Project Status: This project includes implementation and installation of equipment to implement outcomes of the paid parking study for downtown, including the Comprehensive Parking Permit and Cita System. Professional Account Management (Duncan) was selected as the City's service provider for comprehensive permit and citation management system. System design started in fall 2019. Base system schedule to launch in select districts in fall 2020.			ring Permit and Citation ervice provider for the				
El Camino Real	Prior Years	Total Project	Implementing Department	Project Phase	Project Completion			
Pedestrian Safety	Actuals	Actuals Budget						

and Streetscape Project	\$113,422	\$6,481,553	Office of Transportation	Pre-Design	Summer 2021	
(PL-18000)	Project Status: The El Camino Real Pedestrian Safety and Streetscape Project will install complete street improvements focused on pedestrian safety at controlled and uncontrolled crosswalks, enhanced but operations at two existing major transit stops, and new urban design amenities between Stanford Avenue and Sheridan Avenue. The project includes: Curb extensions; median refuges; median shade trees; pedestriat scale lighting and potential bus enhancement.					
Embarcadero Road at El	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion	
Camino Improvements	\$871,548	\$7,470,939	Office of Transportation	Design	Spring 2023	
	•	ection realignment	neter Trail, a protected intersets at High Street, Emerson Streety enhancements.	•	·	
Quarry Road Improvements	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion	
and	\$0	\$7,470,939	Office of Transportation	Design	Fall 2022	
Transit Center Access (PL-16000)	Project Status: This project includes the planning, design and construction of bicycle and pedestrian improvements along Quarry Road between El Camino Real and Welch Road, including, but not limited to, upgraded bicycle lanes and crosswalks, innovative intersection treatments for bicyclists, and improved access to transit stops. Planning, design, and construction of a new bicycle, pedestrian, and transitway between the Palo Alto Transit Center bus depot and the intersection of Quarry Road and El Camino Real has been completed. Implementation is timed to support expanded operations of the hospital and the completion of Caltrain electrification in 2022.					

Emergency Vehicle Traffic Signal	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion		
Preemption System Pilot	\$0	\$597,500	Palo Alto Fire Department	Design	Fall 2020		
(PL-19000)	Project Status: This project will purchase and implement an emergency vehicle preemption system pilot project. The system will integrate with the City's current traffic signal management system and with the City's computer- aided emergency response dispatch system to provide safer and quicker response times for emergency vehicles. Staff has procured a cost estimate from one vendor and is finalizing a contract for sole source services. Project start date is anticipated for spring 2020.						
Railroad Grade Separation and	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion		
Safety Improvements	\$2,101,075	\$12,401,738	Office of Transportation	Design	Summer 2024		
(PL-17001)	Project Status: This project is a community-based process to advance the railroad grade crossing circulation study and context sensitive solutions study envisioned by the City Council. It will also fund the preparation of Project Study Report and environmental analysis that will be required for the City to realize its goals of advancing grade separations. This capital project provides funds for a contract with AECOM to do engineering support for the rail grade separation studies. Funding for safety improvements at the railroad crossing at Alma Street and Churchill Avenue has been moved into a separate project, Churchill Avenue/Alma Street Railroad Crossing Safety Improvement Project (PL-20001).						
Downtown Automated Parking Guidance Systems, Access Controls & Revenue Collection Equipment	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion		
	\$130,028	\$2,977,803	Office of Transportation	Design	Spring 2021		

(PL-15002)	Project Status: This project includes design and installation of new downtown parking guidance systems, access controls and revenue collection equipment that will be coordinated with both the Downtown Parking Wayfinding, PL-15004 project and the Downtown Parking Management Study that is scheduled to be completed at the end of 2016. Following City Council direction in April 2016, Staff has advanced the design of the single space detection system with individual indicator lights. Staff contracted with Dixon Resources for additional management support in design and procurement for the system installation in the Downtown garages on University Avenue.
	Sarages on oniversity rectides

Bicycle and Pedestrian	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
Transportation	\$2,367,931	\$2,321,200	Office of Transportation	N/A	Recurring		
Plan Implementation (PL-04010)	Project Status: The Neighborhood Traffic Safety and Bicycle Boulevards Phase 1 Project along Amarillo Avenue/Moreno Avenue, and Ross Road were completed in November 2018. The remaining segments of Bryant Street and Louis Road/Montrose Avenue are on hold until further Council review in 2019. Conceptual plans for the Neighborhood Traffic Safety and Bicycle Boulevards Phase 2 Project along Bryant Street, Maybell Avenue, Stanford Avenue, and Park Boulevard/Wilkie Way were adopted by City Council in 2015. Phase 2 is on hold at 75% design until further Council review in early 2020.						
Safe Routes To School	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
(PL-00026)	\$89,373	\$222,300	Office of Transportation	N/A	Recurring		

	planning, encourage impacted by school crosswalks, and improcontinue and traffic countermeasures. In Alma to Fabian Way	ment activities, ar commute activities oved signage along studies will be n FY 2020 and 2021, on Fabian Way for	the City's Safe Routes to School capital improvements along es. The capital improvements in g suggested safe routes to school pursued for locations in need 21, enhanced signage, striping a rom East Meadow Drive to East ween East Meadow Drive and Ch	local and collected clude traffic calm l. In FY 2020, traf d of traffic calm nd buffers on Ea Charleston Road	or streets that may be ning devices, enhanced fic calming projects will ning and other safety st Meadow Drive from	
Parking District Implentation	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion	
(PL-15003)	\$32,760	\$272,100	Office of Transportation	N/A	Recurring	
	Project Status: This project implemented the signage needs of the residential preferential Phase 1 of the Downtown Residential Preferential Parking Program was implemented in Octowas implemented in April 2016, and the program was made permanent in April 2017. The Mayfield RPP program was made permanent in April 2018. The Southgate RPP program was notober 2019. The Old Palo Alto pilot was approved by Council and began in November 2019.					
Traffic Signal and Intelligent Transportation Systems (PL-05030)	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion	
	\$368,200	\$2,461,200	Office of Transportation	N/A	Recurring	

	Project Status: This project will include design and construction of traffic signals, traffic signal communications networks, detection and data projects for transportation use, and maintenance of the City's traffic signal Central management system. The project includes the replacement of traffic signal controllers/cabinets, video detection systems, and other related field equipment. The new controllers enable additional traffic signal timing strategies and improve the reliability of the City's traffic signals.						
Transportation	Prior Year Actuals	Current Year	Implementing Department	Project Phase	Project Completion		
and Parking		Budget					
Improvements (PL-12000)	\$290,303	\$337,000	Office of Transportation	N/A	Recurring		
(PL-12000)	Project Status: This project implements miscellaneous neighborhood traffic calming improvements including neighborhood traffic studies and parking improvements. This project also funds the development of grant proposals used to procure funding for future projects. Projects which are currently in progress include the Middlefield North Traffic Safety Project, Crescent Park neighborhood safety improvement pilot, and Charleston/San Antonio Traffic Signal Safety and Operations Improvement Project.						

Airport Apron Reconstruction	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion		
(AP-16000)	\$13,499,947	\$41,987,059	Public Works	Construction	Summer 2022		
	Project Status: This project includes the design and reconstruction of the Palo Alto Airport apron and is being implemented in multiple phases. The pavement surfaces at the airport are failing and uneven. The need reconstruct the aircraft parking apron is critical to airport safety. Construction Phase I was completed November 2017. Construction Phase II will be completed in Winter 2020. Construction on Phase III is scheduled to begin in FY 2021.						
Airport Facilities	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Electrical	Actuals	Budget	Department				
Improvements	\$0	\$206,000	Public Works	Design	Fall 2020		
(AP-20000)	Project Status: This project upgrades the outdated electrical panels for the Palo Alto Airport office rental spaces. The project design phase is nearing completion and the solicitation process is tentatively scheduled for May 2020.						

Recurring Projects

2019-2023 – Airport Capital Improvements Program Projects: There are no recurring projects scheduled at this time.

230 kV Electric	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Intertie	Actuals	Budget	Department			
(EL-06001)	\$578,055	\$440,045	Utilities	Pre-Design	Summer 2020	
	requirements to escity's electric syste University and SLAC other parties involved	tablish a 230 kV elect m directly to the 230 National Accelerator red with facilitating t	tric intertie line and co OkV transmission line. T Laboratory (under the c	nstruct a 230/60 kV he City has presen oversight of the Dep	termine the general project If substation to connect the ted its findings to Stanford artment of Energy), the two se from SLAC and Stanford	
Capacitor Bank	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Installation	Actuals	Budget	Department			
(EL-16002)	\$180,434	\$186,300	Utilities	Design	Fall 2020	
	Northern California Power Association Power Factor requirements are met. Staff has performed an analysis where capacitors are needed to provide VAR support to the system. Capacitor banks will be installed Hanover, Hansen Way, Quarry Road and Park Boulevard Substations. Capacitor banks have been ordered, the first installation has been completed at Hansen Way substation. The remaining installations will happe phases and are expected to be completed by fall 2020.					
Coleridge	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Cowper	Actuals	Budget	Department		, , , , , , , , , , , , , , , , , , , ,	
Tennyson	\$29,827	\$980,000	Utilities	Design	Summer 2021	
4/12kV	Project Status: This	project converts the	primary electric distribu	tion system in the (Coleridge/Cowper/Tennyson	
Conversion (EL-14000)	area from 4 kV to 12 kV. This project is a precursor to work being planned for Colorado/Hopkins Substations. Design is at 75% completion as of December 2019.					
Colorado Power Station	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion	

Equipment	\$922,316	\$2,762,500	Utilities	Design	Fall 2021				
Upgrades	Project Status: This	s project provides fui	nding to replace aging	peripheral equipme	ent used on the substation				
(EL-19001)	transformer banks	at the Colorado Po	ower Station, but the	project scope has	been reassigned for the				
	replacement of the	failed COP-2 transfor	mer replacement. The a	ging peripheral equ	ipment will be dealt with in				
	future years. Ongoir	ng funding will be use	d to deal with the COP-3	transformer bank.					
Colorado	Prior Years	Total Project	Implementing	Project Phase	Project Completion				
Substation Site	Actuals	Budget	Department						
Improvements	\$16,360	\$500,000	Utilities	Pre-Design	Fall 2021				
(EL-19002)	Project Status: This	project will make mo	difications to the substa	ation driveways and	I fence to provide adequate				
	ingress and egress f	ingress and egress for utility vehicles used for maintenance and repair.							
Colorado Hopkins	Prior Years	Total Project	Implementing	Project Phase	Project Completion				
System	Actuals	Budget	Department						
Improvement	\$0	\$3,518,000	Utilities	Pre-Design	Summer 2027				
(EL-15000)	Project Status : This project will replace deteriorating equipment which will increase system capacity and improve sorvice reliability for the areas sorved by the Hapkins and Colorado substations and adjacent								
	improve service reliability for the areas served by the Hopkins and Colorado substations and adjacent								
	substations. After performing the preliminary engineering analysis, it has been decided to rebuild Hopkins substation to a 12kV substation. Design on this project will begin summer 2020.								
	_		T -		T				
East Meadow Circles 4/12kV	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion				
Conversion	\$38,704	\$1,014,995	Utilities	Pre-Design	Spring 2022				
(EL-17001)	Project Status : The project converts the primary electric distribution system in the East Charleston/Alma								
	Street/East Meadow Drive/Middlefield Road area from 4 kV to 12 kV. This project is in the preliminary stages of								
	assessment for engineering design. The project is being reevaluated to determine the scope of work that should								
	be involved. Issues with replacing the rear-easement facilities may dictate a change in direction of the project								
	scope. Some work has been done evaluating the condition of the existing poles in the project area. Engineering								
	is continuing to wor	k on a preliminary des	sign that should be com	pleted May 2020.					

Facility	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Relocation for	Actuals	Budget	Department				
Caltrain	\$103,587	\$3,062,000	Utilities	Design	Fall 2020		
Modernization	Project Status: The	Utilities Department	received approval from	n Caltrain to contin	ue removal of the overhead		
(EL-17007)	lines in October 201	18. The installation of	the Overhead Catenary	System above the	rails to power the trains will		
	cause conflicts with	n the City's overhead	electric and communic	cation lines, as well	as those owned by others,		
	_				pleted the design work in		
		•	•	•	leted by contractors. Work		
		•			ossings. The bid package is		
					sued in conjunction with EL-		
	19004 – Wood Pole	Replacement in the h	nopes of obtaining bette	ring bid prices.			
Hopkins	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Substation	Actuals	Budget	Department				
4/12kV	\$0	\$5,693,000	Utilities	Pre-Design	Spring 2023		
Conversion	Project Status: This	project converts the	distribution system cor	nected to the Hopl	kins Sub-station from 4kV to		
(EL-20000)	12kV. Engineering d	lesign is to begin on th	nis project in fall 2020.				
HCB Pilot Wire	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Relay	Actuals	Budget	Department				
Replacement	\$305,123	\$819,660	Utilities	Construction	Summer 2022		
(EL-17005)	Project Status: This project replaces the existing HCB pilot wire relays with a new microprocessor based line						
	differential protective relays to protect the city's 60kV sub-transmission line sections and equipment from damage due to faults (i.e. short circuits) on the 60kV line sections. Staff has completed the relay replacement						
	between line sections HO-QR, MB-EM and EM-AC and is working on the design for the replacement of relays						
	between line sections GOP-PB, COP-AC and COP-HO.						
	between line sectio	ns cor-rb, cor-Ac ai	iu cor-no.				
Rebuild	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Underground	Actuals	Budget	Department				

(EL-11003)	the area bounded b in the preliminary s rebuilding the elect input regarding the	y Los Palos Avenue, G tages of engineering ric system along Ara design of the project	ilenbrook Drive, Pomon design and work will be stradero Road. Work o	a Avenue, and Arasi e coordinated with n this project has b ings with the reside	in Underground District 15, tradero Road. This project is EL-16000 which is currently been delayed due to public ents, UAC, and Council. This	
Reb Underground	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
District 16	Actuals	Budget	Department			
(EL-13003)	\$10,858	\$398,254	Utilities	Design	Spring 2021	
Rebuild	Prior Years	bs for better bid resu	Implementing	Project Phase	Project Completion	
Underground	Actuals	Budget	Department			
District 19	\$149,023	\$0	Utilities	Construction	Summer 2020	
(EL-11008)	Project Status: This project rebuilds and replaces the underground electric system in Underground District 19, the area bounded by Forest Avenue, Waverley Street, Addison Avenue, and Alma Street. Much of this work needs to be performed during the evening or after hours to avoid impacting commercial businesses, which increases the construction timeline. Construction by city staff is approximately 85% completed for this area, but is currently delayed due to a shortage of Operations staff. Due to the work location and the impact to commercial customers, this work is being kept inhouse rather than contracting the remaining work. Work will begin again once the work can be scheduled with Operations and impacted customers can be notified. Work is being done in conjunction with EL-10006.					
Rebuild	Prior Years	Total Proiect	Implementing	Project Phase	Project Completion	
Rebuild Underground	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion	

(EL-14002)	Project Status: This project rebuilds and replaces the underground electric system in Underground District 20,						
		•			In Avenue. This project is in ed as of December 2019.		
Rebuild	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Underground	Actuals	Budget	Department				
District 23	\$0	\$1,264,000	Utilities	Pre-design	Summer 2024		
(EL-17000)	Project Status: This	project rebuilds and	replaces the undergro	und electric system	in Underground District 23,		
		•	milton Avenue; and Souign. Design on this proje		project is in the preliminary y 2021.		
Rebuild	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Underground	Actuals	Budget	Department				
District 24	\$1,885,129	\$2,529,220	Utilities	Construction	Fall 2020		
	Project Status: This project rebuilds and replaces the underground electric system in Underground District 24 the area bounded by Lytton Avenue; Bryant Street; Forest Avenue; and Alma Street. Construction by city staff i approximately 85% completed but is currently delayed due to a shortage of Operations staff. Due to the worl location and the impact to commercial customers, this work is being kept inhouse rather than contracting the remaining work. Work will begin again once the work can be scheduled with Operations and impacted customers can be notified. Work is being done in conjunction with Rebuild Underground District 19 (EL-11008).						
Rebuild	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Underground	Actuals	Budget	Department	_			
District 25	\$9,266	\$242,600	Utilities	Design	Winter 2021		
(EL-19000)	Project Status: This project rebuilds and replaces the underground electric system in Underground District 25. District 25 includes Orme Street between Los Robles Avenue and Juana Briones School. Engineering design is currently in progress and is awaiting the procurement of an easement on private property. Once granted the project will be released and scheduled with Electric Operations for construction.						
Rebuild	Prior Years	Total Project	Implementing	Project Phase	Project Completion		

Underground	Actuals	Budget	Department				
District 26	\$4,800	\$796,830	Utilities	Design	Spring 2021		
(EL-16000)	Project Status: This project rebuilds and replaces the underground electric system in Underground District 26 the area along Arastradero Road between El Camino Real and Hillview Avenue. This project is in the preliminary stages of assessment for engineering design and will be designed in conjunction with EL-11003 which is rebuilding the electric system on Los Palos Avenue, Glenbrook Drive, and Pomona Avenue. This project will be bundled with other similar type jobs for better bid results.						
Rebuild	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Underground	Actuals	Budget	Department				
District 30	\$0	\$1,556,000	Utilities	Pre-Design	Summer 2024		
(EL-19003)	Project Status: Thi	s project will rebuild	and replace the under	ground electric sys	tem in the area of the City		
Reconfigure Quarry Feeders	Prior Years Actuals	Total Project Budget	e. Design on this project Implementing Department	Project Phase	Project Completion		
(EL-14005)	\$469,506	\$1,036,776	Utilities	Construction	Fall 2020		
	Project Status: This project reconfigures how distribution circuits are connected to each substation transformer at Quarry Substation. While phases of this project have been completed in construction, others phases still need to be designed and constructed. The final phase of this project is in design. Construction is scheduled for fall 2020.						
Smart Grid	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Technology	Actuals	Budget	Department				
Installation	\$736,960	\$20,066,110	Utilities	Pre-Design	Fall 2024		
(EL-11014)	Project Status: Council approved proceeding with Advanced Metering Infrastructure (AMI) and associated smart grid investments in December 2018. AMI is a foundational technology that is becoming a standard in the utilities industry and will improve customer experience while enabling CPAU to operate more effectively. An AMI-based smart grid system will empower customers to more efficiently utilize utility supplies, facilitate customer						

	adoption of distributed energy resources (DER) such as solar photovoltaics (PV) and electric vehicles (EV), and enable the timely detection of water leaks. AMI will also enable CPAU to optimize operations and improve reliability by reducing restoration time for outages.					
Substation 60kV	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Breaker	Actuals	Budget	Department			
Replacement	\$248,238	\$3,413,180	Utilities	Design	Summer 2024	
(EL-17002)	Project Status: This	project replaces high	n voltage circuit breake	ers that interconnect	the nine electric substations	
	the use. Staff comp	leted the first phase o	•	stallation, and is now	<pre>d/or are now underrated for r moving onto a procurement</pre>	
Substation	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Physical Security	Actuals	Budget	Department	110,0001111000	oject compiction	
(EL-16003)	\$212,719	\$2,139,796	Utilities	Design	Winter 2023	
	and intrusion. A pr	ofessional services coved by staff for projectional security	ontract was awarded tects to be implemented	to Burns & McDonne ed this Fiscal Year.	c substations from vandalismell and the study is complete funding will be requested in essing fencing, tree trimming,	
Utility Site	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Security	Actuals	Budget	Department			
Improvements	\$1,539,560	\$1,644,681	Utilities	Construction	Spring 2021	
(EL-04012)	Project Status: This project adds electronic security systems at utility sites to protect equipment at electric substations, water pumping plants, reservoirs, and gas stations from intrusion and vandalism. To date, cameras and detection systems have been installed at nine (9) electric substations, three (3) water stations, and one (1) natural gas station to monitor facilities. Staff is working on standardizing equipment and video management software across departments. This project is 75% completed. Video feeds have been transferred to new					

VA Hospital –	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Customer Load	Actuals	Budget	Department	110,000111000	i i ojest sempremen		
Requirements	\$84,984	\$0	Utilities	Design	Summer 2023		
(EL-17003)	Project Status: This project is to meet the growing electric needs of the VA Hospital. Staff has had numer discussions with VA Hospital on electric load growth at the hospital and anticipated needs from the utility. M of the cost is reimbursed to the City by the VA Hospital. Staff has prepared preliminary designs for intessolutions and is awaiting additional information from VA to develop long range plans to meet their future needs.						
Underground	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
District 42 –	Actuals	Budget	Department				
Embarcadero	\$0	\$2,050,000	Utilities	Pre-Design	Spring 2024		
Road, Emerson, Middlefield	Underground Utilit	ong Embarcadero ies District and perf	between Emerson and orming the work on a g	d Middlefield. This բ general benefit basis ւ	oroject involves creating an under the provisions of Utility		
Middlefield	ground system al Underground Utilit Rule 17 which req the cost of underg	ong Embarcadero cies District and perfuires the Utility to be tounding their services.	between Emerson and orming the work on a go bear the cost of the distances.	d Middlefield. This presented benefit basis until tribution system and	project involves creating an under the provisions of Utility the property owners to bear		
Middlefield Underground	ground system al Underground Utilit Rule 17 which req the cost of underg	ong Embarcadero cies District and perfuires the Utility to brounding their service Total Project	between Emerson and forming the work on a good rear the cost of the distress. Implementing	d Middlefield. This բ general benefit basis ւ	oroject involves creating an under the provisions of Utility		
Middlefield	ground system al Underground Utilit Rule 17 which req the cost of underg	ong Embarcadero cies District and perfuires the Utility to brounding their services.	between Emerson and orming the work on a go bear the cost of the distances.	d Middlefield. This presented benefit basis until tribution system and	project involves creating an under the provisions of Utility the property owners to bear		
Middlefield Underground District 46 –	ground system al Underground Utilit Rule 17 which req the cost of underge Prior Years Actuals \$2,328,463 Project Status: Thi of West Charlesto Operations staff ha	ong Embarcadero cies District and perf uires the Utility to k rounding their service Total Project Budget \$3,920,203 s project undergrou on and El Camino as caused a review a	between Emerson and forming the work on a goear the cost of the distress. Implementing Department Utilities Inds the existing overhead and revision of construction	Project Phase Construction ead utility systems in abstructures have because of the plans. Staff is not a second contraction and a second contraction are a second contraction and a second contraction are a second contraction as a second contraction and a second contraction are a second contraction are a second contraction and a second contraction are a second contract	project involves creating an under the provisions of Utility the property owners to bear Project Completion		
Underground District 46 – Charleston/El Camino Real (EL- 12001)	ground system al Underground Utilit Rule 17 which req the cost of underge Prior Years Actuals \$2,328,463 Project Status: Thi of West Charlesto Operations staff ha	ong Embarcadero cies District and perf uires the Utility to b rounding their service Total Project Budget \$3,920,203 s project undergrou on and El Camino as caused a review a construction of the	between Emerson and forming the work on a great the cost of the distress. Implementing Department Utilities Inds the existing overhead the existing overhead the existing overhead the existing overhead the existing of construction of co	Project Phase Construction ead utility systems in abstructures have be cition plans. Staff is not steel poles, and rem	Project Completion Fall 2021 the area along the 400 block een installed. A shortage of ow working on a bid package oval of the overheard wires.		
Underground District 46 – Charleston/El Camino Real (EL-	ground system al Underground Utilit Rule 17 which req the cost of underground Prior Years Actuals \$2,328,463 Project Status: This of West Charlesto Operations staff has to complete the reserved.	ong Embarcadero cies District and perf uires the Utility to k rounding their service Total Project Budget \$3,920,203 s project undergrou on and El Camino as caused a review a	between Emerson and forming the work on a goear the cost of the distress. Implementing Department Utilities Inds the existing overhead and revision of construction	Project Phase Construction ead utility systems in abstructures have because of the plans. Staff is not a second contraction and a second contraction are a second contraction and a second contraction are a second contraction as a second contraction and a second contraction are a second contraction are a second contraction and a second contraction are a second contract	Project Completion Fall 2021 the area along the 400 block ten installed. A shortage of ow working on a bid package		
Underground District 46 – Charleston/El Camino Real (EL- 12001) Underground	ground system al Underground Utilit Rule 17 which req the cost of underground Prior Years Actuals \$2,328,463 Project Status: This of West Charlesto Operations staff has to complete the reserved.	ong Embarcadero cies District and perf uires the Utility to b rounding their service Total Project Budget \$3,920,203 s project undergrou on and El Camino as caused a review a construction of the	between Emerson and forming the work on a great the cost of the distress. Implementing Department Utilities Utilities Utilities Utilities Utilities Utilities Underground sure and revision of construction of construction of construction of construction of the constr	Project Phase Construction ead utility systems in abstructures have be cition plans. Staff is not steel poles, and rem	Project Completion Fall 2021 the area along the 400 block een installed. A shortage of ow working on a bid package oval of the overheard wires.		

Addison	Middlefield Road, Homer Avenue, Webster Street, and Addison Avenue. Installation of substructures and utility				
(EL-11010)	electric system is completed. There is only one customer who has not converted their service and staff is				
	working with the customer to get this accomplished. Where possible, the overhead electric lines are being				
	removed and poles cut down to the level of the communication lines.				

Communications	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
System		Budget	Department		
Improvements	\$800,766	\$100,000	Utilities	N/A	Recurring
(EL-89031)	Project Status: This	project installs copp	er wire cable systems, l	high frequency coa	xial cable, fiber optic cable,
	and related equipn	nent to provide com	munications services fo	or traffic signal cod	ordination, telephone links,
	•		•	•	ion (SCADA) system. Staff is
	_				to facilitate the substation
	·		•	•	cation instead of the copper
		•	existing relays. No ad	ditional work has b	een completed at this time
	due to higher projec	ct priorities.			
Electric Customer	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
Connections	Prior real Actuals	Budget	Department	Project Phase	Project Completion
(EL-89028)	\$2,648,995	\$2,400,000	Utilities	N/A	Recurring
(22 03020)					omers; upgrading of existing
	_				nsions for new or existing
		•		•	temporary and permanent
	_	l and commercial cust	_	raction to provide	temporary and permanent
	power to residentia	rana commercial case			
Electric System	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
Improvements		Budget	Department	-	
(EL-98003)	\$2,414,005	\$1,500,000	Utilities	N/A	Recurring
	Project Status: This	project consists of v	arious projects that rep	lace deteriorated fa	acilities or install protective
	devices that improv	e the Electric Distribu	ition System. Projects a	re in various stages	of development to replace

	transformers, replace poles, replace overhead wires, and install protective devices to improve service reliability.						
Electric Utility Geographic	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
Information	\$68,904	\$326,000	Utilities	N/A	Recurring		
System (EL-02011)	Project Status: This project enhances the citywide Geographical Information System (GIS). The primary emphasis will be to provide a compatible user interface and estimating software, to edit and update data which will reside in the citywide GIS. Staff is working on a scope of work for an RFP to assess GIS needs for Utilities Engineering. This funding is also being used to pay for Utilities Electric Division's share of cost for the implementation of new city-wide GIS system (ESRI) led by IT.						
SCADA System	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion		
Upgrades		Budget	Department				
(EL-02010)	\$63,805	\$265,000	Utilities	N/A	Recurring		
	•	-	n 2014 used for monitof ftware upgrade in 2020	•	stations and equipment and		
Substation	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion		
Facility		Budget	Department				
Improvements	\$375,144	\$327,800	Utilities	N/A	Recurring		
(EL-89044)	Project Status: This project makes improvements to facilities at the electric substations in Palo Alto. Staff is working on the replacement of Remote Terminal Units (RTU) at various substations, upgrading gravel and grounding, and reconfiguring steel trusses and associated devices.						
Substation	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion		
Protection		Budget	Department				
Improvements	\$690,592	\$300,000	Utilities	N/A	Recurring		
(EL-89038)		• •			substations to protect the to faults (i.e. short circuits)		

	on the electric system. Staff completed the 60kV coordination study and is working on designs for improvements				
Underground	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
System Rebuild		Budget	Department		
(EL-16001)	\$22,478	\$350,000	Utilities	N/A	Recurring
	Project Status: This project replaces underground electric equipment in areas that were originally installed underground, i.e. not part of an Underground District. Staff is working to identify areas where based on the age of the existing cables are a high priority for cable replacement. So far this includes areas in the Stanford Research Park, Arastradero Road, and along East Bayshore Road. New areas have been identified but no progress has been made on development of the project as staff are currently working on other projects with higher priorities.				
Wood Pole	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
Replacement		Budget	Department	_	
(EL-19004)	\$26,395	\$1,500,000	Utilities	N/A	Recurring
	identified 84 wood submitted to Purcha	ooles for the pole replaining for review and a	nnual replacement of d acement contract and a dvertisement. This bid p lernization, in the hopes	re currently the bid package is being issu	package has been ued in conjunction with EL-
Upgrade Electric	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
Estimating		Budget	Department		
System	\$23,148	\$0	Utilities	N/A	Recurring
(EL-13008)	Project Status: This project upgrades the existing Electric estimating software used for preparing job estimates by integrating engineering analysis, adding predefined standards and templates, and by integrating documentation, materials ordering, and work management functions. Staff completed the underground construction standards and the draft of the overhead construction standards for electric installations. The software used for project estimating was upgraded to the latest version. Staff is working with IT to facilitate the transition of the mapping and estimating software to ESRI.				

Fiber Optic	Prior Years	Total Project	Implementing	Project Phase	Project Completion
System Rebuild	Actuals	Budget	Department		
(FO-16000)	\$167,167	\$1,292,165	Utilities	Design	Spring 2021
	optic network arou	ınd Palo Alto. The first	phase of this project ha	as been constructed. T	ortions of the "dark" fiber he remaining phases are in m completing the design.

Fiber Optics	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion		
Network System		Budget	Department				
Improvements	\$1,009,942	\$500,000	Utilities	N/A	Recurring		
(FO-10001)	Project Status: This	project improves the i	reliability within the fibe	er optic network sys	stem. A project to install a		
	new fiber optic cabl	e from Park Substatio	n to the Stanford Resea	rch Park to enhand	e capabilities and reliability		
	is identified and wai	ting for availability of	staff to design				
		,	Ü				
Fiber Optics	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion		
Customer		Budget	Department				
Connections	\$133,326	\$250,000	Utilities	N/A	Recurring		
(FO-10000)	Project Status: This project enables the installation of fiber optic infrastructure for new service connections.						
	Projects are developed as needed to meet customer requests for leasing of fibers on the Dark Fiber system.						
	Staff have processed and completed X number of 3 customer connection projects in Q1 and Q2. This is in						
	addition to several smaller projects involving existing fiber optic cable connections that did not require						
		•	andled directly by Opera	•			
	additional engineers	is acsibiliatia welle lia	marca an ectry by Opera	cions stain.			
<u> </u>							

Gas Main Replacement	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion		
Project 23	\$154,872	\$11,124,281	Utilities	Design	Fall 2021		
(GS-13001)	Project Status: This project enables the design and construction to replace approximately 22,700 linear feet (which represents 2.0% of the City's Gas distribution main system) of distribution main and 320 gas service laterals constructed mainly of PVC material on various streets within the Midtown, Midtown West, Evergreen, Ventura, and Green Acres neighborhoods. The design is expected to be completed in spring 2020 with construction beginning in winter 2021.						
Gas ABS/Tenite Replacement	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion		
Project	\$31,015	\$2,615,100	Utilities	Design	Spring 2020		
(GS-18000)	Project Status: This project replaces approximately 130 gas services laterals constructed of Acrylonitrile-butadiene-styrene (ABS) or Tenite material on various streets. Council approved funding fin June 2019. Construction began in fall 2019 and will be completed in spring 2020.						

Gas System,	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion	
Customer			Department			
Connections	\$1,039,110	\$1,342,415	Utilities	N/A	Recurring	
(GS-80017)	Project Status: This	s project enables the Gas	Distribution System to	be extended in or	der to provide gas service	
	to new customers	and augment service to	customers with incre	eased natural gas	demands. Improvements	
	include new mains, services, valves, regulators, meters, and accessories. This project upgrades infrastructure to					
	provide gas service connections to new customers, meet changes in existing customer service demands, and					
	respond to changes in gas service requirements due to new development or redevelopment. This project is					
	funded partially fro	m reimbursements by cu	stomers. City crews co	mpleted approxim	nately 80 new gas services	
	between July 2019 a	and December 2019.				

Gas Distribution System	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion
Improvements	\$9,600	\$500,000	Utilities	N/A	Recurring
(GS-11002)	distribution system system to improve some or its various compevaluate service relations and to n	capacity for load growth, service reliability, conduct ponents, and making gerliability needs and make ninimize potential econor feet of natural gas main	replacing deteriorated to the research related to neral improvements to improvements to the solic losses due to service.	capital facilities, report of the system. The system to maintaintee interruptions. In	ctivities include: increasing econfiguring/adding to the he gas distribution system e City must continuously n top level service to City the first half of FY 2020, in non-standard locations
Gas Equipment	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion
and Tool	4447.005	4100.000	Department	21/2	
(GS-13002)	\$117,005	\$100,000	Utilities	N/A	Recurring directional boring/locating
	equipment and too annual basis to safe	ols, and general shop equence of the second shop is a second shop in the second shop in the second shop is a second shop in the second s	uipment and tools. The natural gas distribution	ne equipment nee n system and to en	ds to be upgraded on an sure operators' safety and nachines and a pressure
Gas Meters and Regulators	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion
(GS-80019)	\$45,551	\$250,000	Utilities	N/A	Recurring
Project Status: This project provides replacement of the existing gas meters and regulators coordination of gas meter and regulator replacements with gas meters identified to be replaced contract, which is generally gas meters that are 25 years or older. The gas meter replacement p the accuracy of gas consumption measurement, reduces possible revenue loss due to under-region provides customers with accurate monthly bills.				e replaced under the AMI acement program ensures	

Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Actuals	_	Department	.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
\$0	\$3,166,000	Public Works	Design	Winter 2021	
Project Status: This	project incorporates	a design of a new sma	ll pump station wit	th 25 cubic feet per second	
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		_			
		• •			
1	•		•		
_	ii anticipates awaitiii	g a construction contrac	t iii suiiiiilei 2020,	with construction beginning	
Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Actuals	Budget	Department			
\$45,028	\$2,976,813	Public Works	Design	Fall 2020	
_		•	• •	,	
	•				
•		·	•		
	•	•	Struction contract is	Scheduled for willter 2020.	
Construction is planni					
Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Actuals	Budget	Department			
		Public Works	Design	Winter 2021	
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1			•	-	
· ·				_	
•	•	•	•		
in fall 2020	a.reio.pacco arrai airi	o 33.131. 431.011 301111 40			
	Project Status: This capacity and upgrade system does not had in advance of the Bayshore Road and design contract. Statin fall 2020. Prior Years Actuals \$45,028 Project Status: This Polyethylene and recompletion of the Navenue storm drain Construction is planned. Prior Years Actuals \$2,624 Project Status: This per second capacity pump station will all pump station in advallow the system to design contract. Sta	\$0 \$3,166,000 Project Status: This project incorporates capacity and upgrades 700 linear feet of system does not have the force needed to in advance of the outfall and upsizing Bayshore Road and convey runoff from a design contract. Staff anticipates awarding in fall 2020. Prior Years Actuals \$45,028 Project Status: This project provides republication of the Matadero Creek Storm Avenue storm drain improvements. The Construction is planned to begin spring 2020. Prior Years Actuals Budget \$2,624 \$1,339,400 Project Status: This project incorporates of per second capacity. The Storm Drain Mapump station will allow storm flows to be pump station in advance of the outfall would allow the system to convey runoff from a design contract. Staff anticipates awarding	Actuals Budget \$0 \$3,166,000 Public Works Project Status: This project incorporates a design of a new sma capacity and upgrades 700 linear feet of storm drain pipe to 30 system does not have the force needed to discharge storm flows in advance of the outfall and upsizing the storm drain pipe of Bayshore Road and convey runoff from a 10-year storm event. Prodesign contract. Staff anticipates awarding a construction contract in fall 2020. Prior Years Actuals Budget Department \$45,028 \$2,976,813 Public Works Project Status: This project provides replaces 1,750 linear feet Polyethylene and replace associated catch basins, laterals and completion of the Matadero Creek Storm Water Pump Station of Avenue storm drain improvements. The procurement for a construction is planned to begin spring 2020. Prior Years Actuals Budget Department \$2,624 \$1,339,400 Public Works Project Status: This project incorporates design and construction per second capacity. The Storm Drain Master Plan identifies this apump station will allow storm flows to be pumped into the Adobe pump station in advance of the outfall would eliminate the routin allow the system to convey runoff from a 10-year storm event. Prodesign contract. Staff anticipates awarding a construction contract.	Actuals Budget Department	

Storm Drainage	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion
System		Budget	Department		
Replacement and	\$461,993	\$2,159,481	Public Works	N/A	Recurring
Rehabilitation (SD-06101)	storm drain system project to rehabilita December 2019. T p	, including deteriorat ate an existing box cul	ed storm drain pipes, lvert over Oregon Expre oid and staff anticipates	manholes, and sto essway is underway	maintain the integrity of the rm drain inlets. The current r. The design was finalized in ruction contract will occur in

Mayfield	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Reservoir	Actuals	Budget	Department			
Subgrade and	\$0	\$600,000	Utilities	Construction	Summer 2020	
Venting Repair (WS-19000)	Project Status: Thi Storage Projects. T rehabilitation work sealed in the reser completed and the	project is part of the City's recent Seismic Upgrade and Emergency Water Supply e reservoir was drained in 2012 for approximately two years to allow extensive seince be performed and construction of a new pump station. Subsequently hairline cracks where it is a geotechnical consultant was hired to evaluate the tank foundation. This study e were several options identified. Staff has completed the design of the vent sock sealing. A construction contract was awarded in fall 2019 and work is anticipated to see the construction contract was awarded in fall 2019.				
Water Main	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Replacement	Actuals	Budget	Department	.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Project 27	\$148,886	\$ 7,787,000	Utilities	Construction	Summer 2020	
(WS-13001)	corroded water ma The project is curre	ins and services along ntly under constructi	g the mains on Sand Hil	l Road, Oak Creek Dri	turally deficient, aging, or ve (5%) and Fulton Avenue. ion of the work that should	
Water Regulation	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Station	Actuals	Budget	Department			
Improvements	\$ 1,476,112	\$ 797,100	Utilities	Pre-Design	Winter 2020	
(WS-07000)	Project Status: This project for Water Regulation Station Improvements includes seismic upgrades, improvements and other various upgrades to increase the structural reliability of three of the City's tu with SFPUC. Work under this project was included in the Seismic Upgrade of four Steel Tanks and Turnouts' Project and the project was completed and closed out. Due to multiple existing issues California Turnout, upgrade work at this facility has been removed from the contract and will be re-eval The Water Configuration Study was terminated and staff will review the needs at a Pre-Design Additionally, new issues with the pressure reducing valves in the Page Mill and Arastradero regulating st					

	were found and will be addressed.						
Water Recycling Facilities	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion		
(WS-07001)	\$ 705,477	\$ 852,699	Utilities	Pre-Design	Fall 2023		
	Project Status: This project allows the City to hire a consultant to prepare a business plan, prepare predesign, and secure funding options for an expansion of the existing recycled water delivery system in The pipeline will primarily serve the Stanford Research Park and provide an alternative supply source of cubic feet per year, roughly 10% of Palo Alto's total water consumption in 2015. The environmental report was completed in September 2015. The expansion pipeline is one of several water reuse projects considered in the Northwest County Recycled Water Strategic Plan. This, or one of the other projects recommended to Council for design and construction. The earliest that work would commence is in FY 2						
Water Reservoir	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Coating	Actuals	Budget	Department				
Improvements	\$ 1,624,519	\$ 2,141,182	Utilities	Design	Winter 2020		
Improvements (WS-08001)	Project Status: This project for Water Reservoir Coating Improvements includes the recoating of four steel tanks. Work under this project was included in the Seismic Upgrade of four Steel Tanks and the three Turnout Projects. Once construction started, it was found that the Montebello Reservoir was in very poor condition. Due to escalating costs associated with roof replacement, staff decided to complete construction of the Montebello Reservoir and re-evaluate the remaining three tanks for replacement. Coating work at the three remaining steel tanks (Dahl, Park and Corte Madera Reservoirs) was removed from the construction contract. The City contracted with an engineering consultant to study the water system as a whole and make recommendations for upgrades and/or improvements. During the Water Configuration Study, the Corte Madera Reservoir was found to be in critical condition and was recommended to be replaced. Part of the funding for the new reservoir will come from this task. The Water Configuration Study contract was terminated due to Consultant's staffing inability to complete the project. This CIP is scheduled to be closed and the remaining funds are to be returned to reserves.						

Water Tank	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Seismic Upgrade	Actuals	Budget	Department			
and	\$ 3,617,775	\$ 11,728,043	Utilities	Design	Summer 2021	
Rehabilitation (WS-09000)	Project Status: This project for Seismic Water System Upgrades includes seismic upgrades at the Monte Mayfield, Corte Madera, Park, Boronda, and Dahl Reservoirs in compliance with the American Society of Engineers (ASCE 7) seismic codes. Work at the steel tank sites includes the installation of new concrete food anchor chairs and tie-downs, installation of seismic shut off valves and control valves, flexible joints a inlet/outlet piping connections, relocation of various inlet and outlet piping, backup power supplies reinforcement and/or replacement of interior tank columns. Seismic upgrade work at the Mayfield Resewas completed in summer 2013 and work on the Boronda Reservoir was completed in summer 201 remaining reservoirs were to be seismically upgraded as part of the Seismic Upgrade of four Steel Tank three Turnouts' Project. However, during construction at the Montebello Reservoir, it was found the existing roof, support columns and support beams, and floor coating needed total replacement due to their condition. Given that all four tanks were constructed at the same time, staff assumes that the remaining tanks are in the same condition. In order to determine the most efficient way to upgrade and/or replace remaining three reservoirs, upgrade work at the Corte Madera, Park and Dahl Reservoirs has been remained three construction contract. The City is currently under contract with an engineering consultant to stuck water system as a whole and make recommendations for upgrades and/or improvements. During the Vonfiguration Study the Corte Madera Reservoir was found to be in critical condition and was recommend be replaced. Most of the funding for the new reservoir will come from this task. Design documents to a level were completed. Request for Proposals for the Design/Build project are being solicited.					
Water Main	Prior Years	Total Project	Implementing	Project Phase	Project Completion	
Replacement	Actuals	Budget	Department			
Project 28	\$0	\$ 9,085,107	Utilities	Pre-Design	Winter 2022	
(WS-14001)	Project Status : This project will replace approximately 11,810 linear feet (which represents 1.1% of the City's water distribution system) of mains and services on various streets within the City, including areas in the Duveneck/St. Francis, Barron Park and Charleston Meadows neighborhoods. The recently approved capital improvement plan increases the scope of each project and staggers construction projects to every other year.					

Water Service	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion
Hydrant			Department		
Replacement	\$72,158	\$ 400,000	Utilities	N/A	Recurring
(WS-80014)	Project Status: This	s project replaces systen	n control valves, deteri	iorated galvanized	service lines, lead goose-
	necks, and fire hydr	ant valves and assemblie	es as a result of Fire Dep	partment flow testi	ng; upgrades fire hydrants
	in main replacemer	nt project areas; and rep	laces existing undersize	ed or deteriorated	copper water services. In
	the first half of FY 2	020, 16 fire hydrants wer	e replaced.		
Water System	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion
Customer			Department		
Connections	\$ 851,385	\$ 750,000	Utilities	N/A	Recurring
(WS-80013)	Project Status: Thi	s project allows for im	provements that inclu	de new main ext	ensions, valves, domestic
	services, meters on	upgraded services, back	flow devices, fire servic	ces, and fire hydra	nts. System extensions are
	required to provide	service to new customer	s and to serve existing (customers request	ing expanded service.
Water	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion
Distribution			Department		
System	\$148,016	\$ 446,620	Utilities	N/A	Recurring
Improvements	Project Status: This	s project enables improv	vements to water distr	ribution system de	eliverability and reliability.
(WS-11003)	Typical activities inc	clude: installing restrainir	ng joints at critical pipel	ines and bridge cre	ossings, increasing the size
	of inadequate facil	ities, system leakage su	ırveys, network model	ing, and fire flow	studies or other system
	improvements as r	required. Continuous ev	aluation of system ne	eds and making i	required improvements is
	•	•		• , ,	federal safe drinking water
	standards. During	the last six months the	Mayfield Reservoir V	FD replacement a	nd back-up controls were
	•				o add the capability for the
		•			ations at the pump station
					Page Mill Road was bid as
	part of the WMR 2	7 project which is under	construction. ACP pip	e study began and	d staff is in the process of

	collecting pipe samples. The Water CAD modeling software was upgraded from 2000 pipe to 5000 pipe model.						
Water General	Prior Year Actuals	Current Year Budget	Implementing Project Phase		Project Completion		
Equipment/Tools	Department						
(WS-13002)	\$0	\$ 50,000	Utilities	N/A	Recurring		
	Project Status: This project acquires new equipment and tools, the replacement of existing fusion end other associated tools. The fusion equipment is used to fuse together pipe joints in the Circular distribution system. Equipment and tools are required to be upgraded on an annual basis to main quality standards for the installation of the City's water distribution mains, along with the associate standards and worker safety and productivity measures. Staff did not purchase any equipment or to						
	first half of FY 2020.		cy measures. Stan and	mot paremase any	equipment of tools in the		
Water Meters	Prior Year Actuals	Current Year Budget	Implementing	Project Phase	Project Completion		
(WS-80015)			Department				
	\$122,265	\$ 1,292,700	Utilities	N/A	Recurring		
	customers, installing also allows for ann Standard replacement	g meter bypasses, and requal testing and calibrati	placing obsolete meter on of selected meters the first half of FY 202	rs that are no long to maintain mete	grading meters for current ger repairable. This funding er accuracy and reliability. Il implementation process		
Water System Supply	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion		
Improvements	\$61,673	\$ 261,620	Utilities	N/A	Recurring		
(WS-11004)	Project Status: This project evaluates and improves the City's water distribution system on an as-needed basis. Typical activities performed under this project include: piping modifications, equipment replacements associated with water delivery, Supervisory Control software upgrades, system modifications for water system quality compliance, conditional assessment of the reliability of transmission mains, and security system installations. The water system includes the connection facilities between the City's and the San Francisco Public Utility Commission's pipelines, emergency water wells within the City, pumping stations, water reservoirs, and pipelines. Procured SCADA switches and firewall components for the fiber connections to 27 water sites.						

	Software to control the system was purchased too. Staff will install the hardware and softwar					
Water, Gas, Wastewater	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion	
Utility GIS Data	\$178,991	\$ 736,399	Utilities	N/A	Recurring	
(WS-02014)		•			nformation System) needs.	
	updated informatio USA (Underground verifying existing ur field crews and onof existing above-g database. Accurate	n is used by various City Service Alert) requiremenderground utilities during all personnel to meet the cound utility features we utility data helps the deserted.	staff, such as marking ents; developing design gents; developing design gent activition activition specific needs. An within the CIP projecting of new pipe alignments.	/locating undergro n drawings for pipe ies; creating custor nual surveying con areas. The data nent to minimize co	y information in GIS. The und utilities to comply with eline replacement projects; mized utility map books for stracts to collect GPS points is used to correct the GIS onstruction conflicts. Create atabase and Utilities AME	

Wastewater	Prior Years	Total Project	Implementing	Project Phase	Project Completion			
Collection System	Actuals	Budget	Department					
Rehabilitation	\$	\$3,131,595	Utilities	Completed	Fall 2019			
Augmentation	Project Status: This project is part of the Utilities Department plan to address areas that were identified in							
Project 24	Wastewater Capital Improvement Project 17 (Cleaning and Video Inspection of the Collection System) as							
(WC-11000)			ombined with Project 2	5 and 26(WC-12001	I; WC-13001). Construction			
	was completed in Se	eptember 2019.						
Wastewater	Prior Years	Total Project	Implementing	Project Phase	Project Completion			
Collection System	Actuals	Budget	Department					
Rehabilitation	\$	\$3,309,998	Utilities	Completed	Fall 2019			
Augmentation	Project Status: This	project is part of th	e Utilities Department	plan to address ar	eas that were identified in			
Project 26	· ·	•		•	the Collection System) as			
(WC-13001)	_		-	•	.1001; WC-12001). All new			
				iew sewer cleanout	s located in the City's right-			
	of-way. Construction	n was completed in Se	eptember 2019.					
Wastewater	Prior Years	Total Project	Implementing	Project Phase	Project Completion			
Collection System	Actuals	Budget	Department					
Rehabilitation	\$475,261	\$5,092,599	Utilities	Construction	Winter 2020			
Augmentation	Project Status: This	project enables the	design and construction	n of high priority w	astewater main and lateral			
Project 28	replacement work	to reduce inflow of r	ainfall and ground wat	er into the collecti	on system. The scope is to			
(WC-15001)	replace approximate	ely 10,000 linear feet	of wastewater mains in	cluding Oregon Ave	enue, Colorado Avenue, and			
	•		•	•	Midtown West, and Lower			
					ill be within existing utility			
					lete. Colorado Avenue and			
	_	ad construction will o	ccur in January 2020. I	Project completion	is on schedule for February			
	2020.							

Wastewater	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Collection System	Actuals	Budget	Department				
Rehabilitation	\$421,684	\$6,921,684	Utilities	Pre-Design	Spring 2023		
Augmentation	Project Status: This	project funds the d	esign and construction	of high priority ma	ain and lateral replacement		
Project 30	work, which reduce	s inflow of rainfall an	d groundwater into the	collection system.	The project replaces 12,066		
(WC-16001)	linear feet (which r	epresents 1.1% of the	e City's Wastewater Col	llection System) for	various streets in the City,		
	including Ventura a	nd Research Park neig	hborhoods. The project	will be comprised of	of laterals identified in video		
	inspection work or	through maintenance	records as deficient and	d in need of replace	ement. Priority will be given		
	to areas identified b	y Public Works as targ	geted work zones ensuri	ng coordination bet	tween departments.		
			T	1			
Wastewater	Prior Years	Total Project	Implementing	Project Phase	Project Completion		
Collection System	Actuals	Budget	Department				
Rehabilitation	\$327,849	\$4,508,339	Utilities	Construction	Spring 2020		
Augmentation	Project Status : This	project enables the	design and construction	of replacement of	approximately 9,000 linear		
Project 29	feet of wastewater	mains. The sanitary s	sewer mains, laterals, ar	nd manholes to be	rehabilitated or replaced in		
(WC-16001)	this project is loca	ted in the Charlestor	n Meadows neighborho	ood. The City and	the Contractor will provide		
	written notification to all affected residents prior to the start of construction. Construction is expected to start						
	in early January 202	0 and last approximat	ely three months.				

Sewer System,	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion			
Customer		Budget	Department					
Connections	Connections \$ 295,652 \$445,000 Utilities N/A Recurring							
(WC-80020)	Project Status: This	project installs sewe	er lateral connections ar	nd additions or exte	ensions of existing mains to			
	serve new custome	rs and to respond to c	hanges in sewer require	ments due to redev	relopment. Old existing non-			
	plastic sewer laterals with condition deficiencies per Utilities Operations' criteria are required to be replaced							
	Other revenue includes customer connection and capacity fees for connecting to the wastewater collection							

	system.							
Sewer Lateral/Manhole	Prior Year Actuals	Current Year Budget	Implementing Department	Project Phase	Project Completion			
Rehabilitation and Replacement	\$ 494,877	\$921,500	Utilities	N/A	Recurring			
(WC-99013)	Project Status: This project replaces defective sewer laterals, cleanouts, manholes, install backwater devices, and purchase equipment to support these activities to maintain the Wastewater Collection System. Information collected during routine annual maintenance activities is used to prioritize work. The work performed will help reduce both the backflow of sewage onto private property and the City's treatment expenses. This project also cleans and video-inspects sewer collection mains and laterals as necessary. This resulted in streamlined collection system operations and maintenance from July through December 2019 effectively and efficiently reducing SSOs.							
Wastewater	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion			
General	40.00	Budget	Department					
Equipment and Tools	\$24,204	\$50,000	Utilities	N/A	Recurring			
(WC-13002)	Troject cause the project metallic and adjustment of the first and cause accounts							
Wastewater	Prior Year Actuals	Current Year	Implementing	Project Phase	Project Completion			
System		Budget	Department					
Improvements	\$0	\$260,000	Utilities	N/A	Recurring			
(WC-15002)	Project Status: This project implements improvements to the Wastewater Collection System. Typical activities include: increasing system capacity for growth, flow monitoring, hydraulic modeling and system analysis, load							

simulations, asset management analysis and assessment, system inflow/infiltration analysis, and sanitary sewer overflow monitoring and reduction. Mainline sewer backups and overflows into homes and businesses are costly and create a health risk. Reducing the losses associated with these backup claims requires a continuous evaluation of system needs and making improvements to maintain a high level of service. Replacement of the City's legacy wastewater maintenance and asset management software (ICOM) is scheduled to begin in spring 2020.

Advanced	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project				
Water			Department		Completion				
Purification	\$0	\$23,246,073	Public Works	Pre-Design	Summer 2022				
Facility (WQ-19003)	further improve the q reverse osmosis to red Water and Mountain V	roject enables the design and construction of an Advanced Water Purification Facility of the tertiary-treated recycled water by microfiltration or ultrafiltration followed duce the level of total dissolved solids. The water reuse partnership agreement with View provides \$16 million in funding from Valley Water for this project. Design is expected with project completion in FY 2022.							
Outfall Line Construction	Prior Years Actuals	Total Project Budget	Implementing Department	Project Phase	Project Completion				
(WQ-19000)	\$0	\$8,219,000	Public Works	Design	Winter 2022				
(\(\) = 3 3 3 3 7	· ·	Project Status: This project consists of the construction of a new parallel outfall pipe to convey final plant effluent							
	· ·	Design is 90% complete. The City is	•	• •	•				
	the construction phase		B						
Secondary	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project				
Treatment			Department		Completion				
Upgrades	\$483,059	\$30,763,109	Public Works	Design	Fall 2024				
(WQ-19001) Project Status: This project upgrades the Secondary Treatment process at the Regional V Plant. The existing Secondary Treatment process has two main components; the Fixed Film F Activated Sludge (AS) Process. This project includes the reconstruction of the AS process, re Aeration Basins and the elimination of the FFRs. The design contract began in October 201 State low-interest loan or bond for the construction phase.					actors (FFR) and the abilitation of the AS				
New Laboratory	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project				
and			Department		Completion				
Environmental	\$76,175	\$22,767,993	Public Works	Design	Fall 2024				
Services	Project Status : This p	roject replaces the existing Plant la	b and environment	al services office	s. This building will				

Building (WQ-14002)	consolidate staff from four separate buildings currently and will provide a larger and updated lab. The solicitation and selection of a design consultant is complete. The design contract began in February 2019. Staff is pursuing a State low-interest loan or bond for the construction phase.						
Plant Master	Prior Years Actuals	Total Project Budget	Implementing	Project Phase	Project		
Plan			Department		Completion		
(WQ-10001)	\$3,024,494	\$0	Public Works	Construction	Fall 2021		
Primary		State low-interest loans for to provide support for the task Total Project Budget			Project		
Sedimentation			Department		Completion		
Tank	\$653,663	\$20,389,640	Public Works	Design	Fall 2022		
Rehabilitation (WQ-14003)	Project Status : This project enables the design and construction for new protective coatings on each of the four concrete primary sedimentation tanks and replacement of worn rotating parts, equipment, and electrical equipment. The primary tanks at the Plant were installed in 1972. This recoating project will extend the concrete life another 30 years. Design is 90% complete. The City is expecting a State low-interest loan be awarded for the construction stage.						

Plant Repair,	Prior Year	Current Year Budget	Implementing	Project Phase	Project Completion			
Retrofit and	Actuals		Department					
Equipment	\$327,099	\$7,017,719	Public Works	Recurring				
Replacement	Project Status: T	his project enables the assessn	nent, repair, and retr	ofit of the Plan	t's concrete and metal			
(WQ-19002)	structures; the re	placement of necessary Plant equ	ipment and ancillary	facilities to maint	ain treatment reliability			
	and existing infrastructure; and the replacement of large diameter flow meters built into the wastewater							
	treatment system	on sewers, pipes, and water lines	S.					

CIP#	<u>Project Name</u>	Project Description	Project Type	Fund Source	<u>Department</u>	Season Completed	Year Completed	Total Pr Budge	
PL-16001	Downtown Mobility and Safety Improvements	This project included the construction of curb extensions and the installation of new pedestrian signal heads and traffic signal modifications in 2019 as part of the Upgrade Downtown project.	Construction	Traffic and Transportation	Office of Transportation	Fall	2019	\$ 1,	819,847
FD-20002	Thermal Imaging Cameras Replacement	This project replaced the Thermal Imaging Cameras (TICs) on all fire and response vehicles used to help identify the location of victims; assess the source of fires, smoke, and heat; to assist in creating a plan of action.	Purchase	Buildings and Facilities	Fire Department	Fall	2019	\$	99,000
WC-11000	Wastewater Collection System Rehabilitation Augmentation Project 24	This project addressed areas that were identified in Wastewater Capital Improvement Project 17 (Cleaning and Video Inspection of the Collection System) as needing rehabilitation. This project was combined with Project 25 and 26(WC-12001; WC-13001).	Construction	Wastewater Collection	Utilities	Fall	2019	\$ 3,	131,595
WC-13001	Wastewater Collection System Rehabilitation Augmentation Project 26	This project was combined with Project 24 and 25(WC-11001; WC-12001). All new service laterals were installed from the new sewer main to the new sewer cleanouts located in the City's right-of-way.	Construction	Wastewater Collection	Utilities	Fall	2019	\$ 3,	309,998
CB-19000	Cubberley Track and Field Replacement	This project replaced the synthetic turf field, installed an all-weather track and a fitness area.	Construction	Parks and Open Space	Public Works	Fall	2019	\$ 1,	851,708
PE-14018	Baylands Boardwalk Improvements	This project replaced the existing boardwalk with similar alignment and configuration.	Construction	Buildings and Facilities	Public Works	Winter	2019	\$ 2,3	123,681
PE-17009	City Hall Floor 4 Remodel	This project improved the Administrative Services Department offices on the fourth floor of City Hall.	Construction	Buildings and Facilities	Public Works	Winter	2019	\$ 4	494,818
PE-14015	Lucie Stern Buildings Mechanical and Electrical Upgrades	This project replaced and upgraded the mechanical, electrical, and fire/life safety systems at Lucie Stern Children's Theater, Lucie Stern Community Theater, and Lucie Stern Community Center.	Construction	Buildings and Facilities	Public Works	Spring	2019	\$ 6,3	142,607
PL-16000	Quarry Road Improvements and Transit Center Access	This project included planning, design and construction of bicycle and pedestrian improvements along Quarry Road.	Construction	Traffic and Transportation	Planning and Community Environment	Spring	2019	\$ 5,2	148,378
EL-17008	Utility Control Center Upgrades	This project upgraded the Utility Control Center working environment.	Construction	Electric	Utilities	Winter	2019	\$ 4	499,997
GS-12001	Gas Main Replacement Project 22	This project replaced approximately 23,700 linear feet of gas mains and services along University Avenue and other streets in the Downtown North nieghborhood.	Construction	Gas	Utilities	Spring	2019	\$ 11,6	658,997

CIP#	Project Name	Project Description	Project Type	Fund Source	<u>Department</u>	Season Completed	Year Completed	Total Project Budget **
WC-12001	Wastewater Collection System Rehabilitation / Augmentation Project 25	This project was combined with Project 24 and 26 (WC-11001; WC-13001) replacing 45,294 linear feet of sanitary sewer mains in university South, Professorville and Old palo Alto neigborhoods.	Construction	Wastewater Collection	Utilities	Spring	2019	\$ 3,211,998
WQ-14001	Dewatering and Loadout Facility	This project provides funding for the design and construction of the sludge dewatering facility and truck loadout to retire existing dewatering and sewage sludge incinerators.	Construction	Wastewater Treatment	Public Works	Spring	2019	\$ 27,497,551
WS-12001	Water Main Replacement – Project 26	This project replaced approximately 11,000 linear feet of aging water mains and services which included water main replacement as part of the Upgrade Downtown Project.	Construction	Water	Utilities	Spring	2019	\$ 7,506,161
PE-17009	City Hall Floor 5 Remodel	This project improved the Planning and Community Environment (PCE) Department offices on the fifth floor of City Hall.	Construction	Buildings and Facilities	Public Works	Summer	2018	\$ 525,000
AC-14001	Baylands Nature Interpretive Center Exhibit Improvements	This project replaced worn out or non-functioning exhibits at the Baylands Nature Interpretive Center.	Construction	Buildings and Facilities	Community Services	Summer	2018	\$ 56,000
PE-17000	Mitchell Park Adobe Creek Bridge Replacement	This project replaced the existing bridge over Adobe Creek in Mitchell Park.	Construction	Parks and Open Space	Public Works	Summer	2018	\$ 250,000
PD-14000	Internal Alarm System Replacement	This project replaced the citywide system of panic alarms from various departments and the Council chambers.	Construction	Buildings and Facilities	Police	Summer	2018	\$ 78,000
EL-14004	Maybell 1&2 4/12kV Conversion	This project converted circuits 1 & 2 at Maybell substation from 4kV to 12kV.	Construction	Electric	Utilities	Fall	2018	\$ 364,796
GS-15001	Security at City Gas Receiving Stations	This project equiped the City's four Gas Receiving Stations with video surveillance systems.	Construction	Gas	Utilities	Summer	2018	\$ 150,000
SD-13003	Matadero Creek Storm Water Pump Station and Trunk Line Improvements	This project upgraded the capacity to the Matadero Creek Storm Water Pump Station, which serves a low-lying 1200-acre area of southeastern Palo Alto.	Construction	Storm Drain	Public Works	Summer	2018	\$ 6,685,317
AP-16002	Wildlife Hazard Management Plan	The Wildlife hazard Management Plan identified the specific actions the airport will take to mitigate the risk of wildlife strikes on or near the airport.	Study	Airport	Public Works	Summer	2018	\$ 63,415
WC-14001	Wastewater Collection System Rehabilitation Augmentation Project 27	This project replaced 16,859 linear feet of sanitary sewer mains of various sizes on various streets.	Construction	Wastewater Collection	Utilities	Winter	2018	\$ 4,022,455

CIP#	Project Name	Project Description	Project Type	Fund Source	<u>Department</u>	Season Completed	Year Completed	Total Project Budget **
PG-15000	Buckeye Creek Hydrology Study	This project analyzed flooding conditions and recommended flood control structures and drainage and erosion control solutions for the creek located within Foothills Park.	Study	Parks and Open Space	Public Works	Spring	2018	\$ 167,741
PE-17004	CalTrain Corridor Video Management System Installation	This project replaced two existing gateway signs in the right-of-way for the California Avenue business district.	Construction	Streets and Sidewalks	Public Works	Spring	2018	\$ 1,550,000
PF-16003	Parking Lot Q Elevator Modernization	This project modernized the existing elevator at Parking Lot Q.	Construction	Buildings and Facilities	Public Works	Fall	2017	\$ 170,608
PE-13003	Parks, Trails, Open Space, and Recreation Master Plan	This master plan provided guidance on the recreation and improvement needs for Palo Alto's parks, trails, open space and recreational programs.	Study	Parks and Open Space	Community Services	Fall	2017	\$ 627,057
PE-12003	Rinconada Park Master Plan	This project developed a plan for short, medium and long range improvements to the regional park including the consideration of pathways, new restrooms and playgrounds, new landscaping, and revitalization of underutilized areas within the park.	Study	Parks and Open Space	Community Services	Fall	2017	\$ 541,355
PE-13012	Structural Assessment of City Bridges	The project developed an inventory of all City-owned bridges and culvert structures, condition assessment, cost estimate for rehabilitation, and recommendation for future inspection frequencies, assessment and improvements.	Study	Buildings and Facilities	Public Works	Fall	2017	\$ 198,529
WC-11000	Wastewater Collection System Rehabilitation / Augmentation Project 24	Combined with Project 25 and 26 (WC-12001; WC-13001), this project replaced and/or rehabilitated approximately 42,398 linear feet of sanitary sewer mains of various sizes, 779 sewer laterals, and 121 sewer manholes.	Construction	Wastewater Collection	Utilities	Fall	2017	\$ 3,119,806
WC-13001	Wastewater Collection System Rehabilitation / Augmentation Project 26	Combined with Project 25 and 26 (WC-12001; WC-13001), this project replaced and/or rehabilitated approximately 42,398 linear feet of sanitary sewer mains of various sizes, 779 sewer laterals, and 121 sewer manholes.	Construction	Wastewater Collection	Utilities	Fall	2017	\$ 3,361,118
PG-13003	Golf Reconfiguration and Baylands Athletic Center Improvements	This project completed the rehabilitation of the Palo Alto Municipal Golf Course, including a new layout for the course, new prefabricated restroom, new water-saving turf and irrigation system, and rebranded the course as the Baylands Golf Links.	Construction	Parks and Open Space	Public Works	Fall	2017	\$ 13,675,177
GS-11000	Gas Main Replacement – Project 21	This project combined with GWR 19B & GMR 20 and replaced ABS gas mains and services.	Construction	Gas	Utilities	Winter	2017	\$ 2,364,937

CIP#	Project Name	Project Description	Project Type	Fund Source	<u>Department</u>	Season Completed	Year Completed	Total Project Budget **
WS-11000	Water Main Replacement – Project 25	This project provided installation of approximately 11,869 linear feet of new High Density Polyethylene (HDPE) water mains, 232 new HDPE water services, and 15 new fire hydrants within the City limits.	Construction	Water	Utilities	Winter	2017	\$ 5,445,069
WS-15004	Water System Master Plan	The 2015 Water System Master Plan identified present capital improvements and replacement rates required to ensure optimal reliability levels of service to the existing distribution and transmission systems.	Study	Water	Utilities	Spring	2017	\$ 500,000
WC-10002	Wastewater Collection System Rehabilitation / Augmentation Project 23	Combined with Project 22 (WC-09001). This project replaced and/or rehabilitated approximately 33,497 linear feet of sanitary sewer mains of various sizes, 554 sewer laterals, and 102 sewer manholes.	Construction	Wastewater Collection	Utilities	Winter	2017	\$ 1,272,289
EL-10009	Street Light System Street Light System Conversion Project	This project converted HPS streetlights to LED and the conversion of approximately 4500 cobrahead streetlight fixtures.	Construction	Electric	Utilities	Spring	2017	\$ 696,918
EL-13006	Sand Hill / Quarry 12kV InterTie	This project installed new wire to connect circuits QR-24 and QR-27 in the Sand Hill/Quarry area.	Construction	Electric	Utilities	Winter	2017	\$ 208,648
EL-15001	Electric Substation Battery Replacement	This project replaced the batteries in all nine of the City's electric substations.	Construction	Electric	Utilities	Winter	2017	\$ 400,000
PG-13001	Stanford/Palo Alto Playing Fields Soccer Turf Replacement	This project replaced the synthetic turf at the Stanford/Palo Alto Playing Fields.	Construction	Parks and Open Space	Community Services	Fall	2016	\$ 1,499,979
PG-09003	Park Maintenance Shop Remodel	This project renovated and remodeled the Parks maintenance shop for safety and efficienciency upgrades.	Construction	Parks and Open Space	Community Services	Summer	2016	\$ 94,419
PE-12017	City Hall First Floor Renovations	This project installed new elevator control panels and replaced the gray-painted panels inside the elevators.	Construction	Buildings and Facilities	Public Works	Summer	2016	\$ 3,974,963
PE-11012	Temporary Main Library	This project created a temporary main Library to be used while the new one was being constructed.	Construction	Buildings and Facilities	Public Works			\$ 156,254

CIP#	Project Name	Project Description	Project Type	Fund Source	<u>Department</u>	Season Completed	Year Completed	Total Project Budget **
PE-15029	Baylands Nature Interpretive Center Facility Improvement	The project replaced decking, railings, structural framing members, exterior wood flooring, and cabinetry, restroom reconfiguration, and provided Americans with Disabilities Act (ADA) improvements.	Construction	Buildings and Facilities	Public Works	Spring	2017	\$ 889,452
PE-13008	Bowden Park Improvements	This project improved the children's playground and included park amenity upgrades such as new playground equipment, a new retaining wall, surfacing and pathway upgrades, planting restoration and irrigation renovations, and replaced of damaged wood benches and the playground perimeter fence.	Construction	Parks and Open Space	Community Services	Summer	2016	\$ 421,126
PE-13020	Byxbee Park Trails	This project provided trail and site amenities over the remaining area of the landfill cap.	Construction	Parks and Open Space	Public Works	Fall	2016	\$ 334,607
PE-17002	City Hall Floor 3 Remodel	This project improved the Utilities Department administrative offices on the third floor of City Hall. It included new carpet, wall reconfiguration, a kitchenette, cabinets, paint, soundproofing, office furniture, doors, and associated building systems.	Construction	Buildings and Facilities	Public Works	Spring	2017	\$ 440,000
PE-14015	Lucie Stern Buildings Mechanical and Electrical Upgrades – Phase 1	This project replaced and upgraded the mechanical, electrical, and fire/life safety systems at Lucie Stern Children's Theater, Lucie Stern Community Theater, and Lucie Stern Community Center.	Construction	Buildings and Facilities	Public Works	Summer	2016	\$ 3,247,248
PG-12004	Sarah Wallis Park Improvements	This project improved site amenities with new concrete pathways, replaced old furnishings, and upgraded landscape with drought tolerant species.	Construction	Parks and Open Space	Community Services	Winter	2017	\$ 65,000
AP-16003	Airport Perimeter Fence	This project replaced the perimeter fencing and gates surrounding the Palo Alto Airport boundaries to prevent unauthorized access to the airport runway in accordance with Federal and State standards.	Construction	Airport	Public Works	Spring	2017	\$ 2,003,540
SD-11101	Channing Avenue/Lincoln Avenue Storm Drain Improvements	This project installed of 5,800 linear feet of 36-inch to 60-inch diameter storm drain along Channing and Lincoln Avenues over three project phases to increase drainage system capacity.	Construction	Storm Drain	Public Works	Winter	2016	\$ 7,676,275
GS-14004	Gas Distribution System Model	This project included the development, model installation, testing, documentation, and staff training of a natural gas distribution system model.	Study	Gas	Utilities	Summer	2016	\$ 149,500
AC-14000	Art Center Auditorium Audio, Visual and Furnishings	This project replaced outdated audio visual equipment and furnishings following the auditorium's use as a temporary library.	Construction	Buildings and Facilities	Community Services	Winter	2016	\$ 150,000

CIP#	Project Name	Project Description	Project Type	Fund Source	<u>Department</u>	Season Completed	Year Completed		al Project udget **
PF-15000	Rinconada Pool Locker Room	This project renovated the Rinconada Pool locker room including the changing area, restrooms, and showers in the women's and men's locker rooms.	Construction	Buildings and Facilities	Public Works	Winter	2016	\$	464,433
PE-13016	El Camino Park Restoration	This project installed new athletic fields, synthetic turf, field lighting, fencing, a new restroom, scorekeeper booth and storage buildings, an expanded parking lot, new bike and pedestrian pathways, landscaping, benches, and other amenities.	Construction	Parks and Open Space	Community Services	Fall	2015	\$	5,611,122
Notes: ** I	Notes: ** Final Project Actuals may be different from Total Project Budget amounts					Grand Total		\$ 1	148,168,489