

2019

City of
SACRAMENTO
Department of Public Works



ANNUAL REPORT

City of Sacramento Public Works
www.cityofsacramento.org/Public-Works



MISSION

Provide innovative and sustainable public infrastructure and services.

VISION

Preserve and enhance the quality of life.

BALANCED GOALS

Quality Customer Service, Employee Development, Optimize Operations, Reliable and Sustainable Funding

CORE VALUES

Teamwork, Integrity, Accountability, Dedication

We, the employees of the Public Works Department, are committed to providing innovative and sustainable public infrastructure and services. We manage almost everything you see at the City of Sacramento — buildings, streets, lights, signs, trees, bridges, fleet, parking, and more!

We are the second largest department in the City of Sacramento. 750 employees are dedicated to preserving and enhancing the quality of life for the community.

The following is our major accomplishments from FY 2018/2019 in support of our mission, vision, goals, and values of Public Works.

DEPARTMENT

 LEADERSHIP



HECTOR BARRON
PW Director



JAMES CHRISTENSEN
*Facilities and Real
Property Manager*



JEROME COUNCIL
*Recycling and Solid
Waste Manager*



MATT EIERMAN
Parking Services Manager



NADER KAMAL
*Engineering Services
Manager (Interim)*



JUAN MONTANEZ
*Maintenance Services
Manager*



RYAN MOORE
Transportation Manager



MARK STEVENS
Fleet Manager



CICELY GARNETT
Human Resources Manager



NICOLE HENDERSON
Finance and Budget Manager



RHEA SALVADOR
Support Services Manager



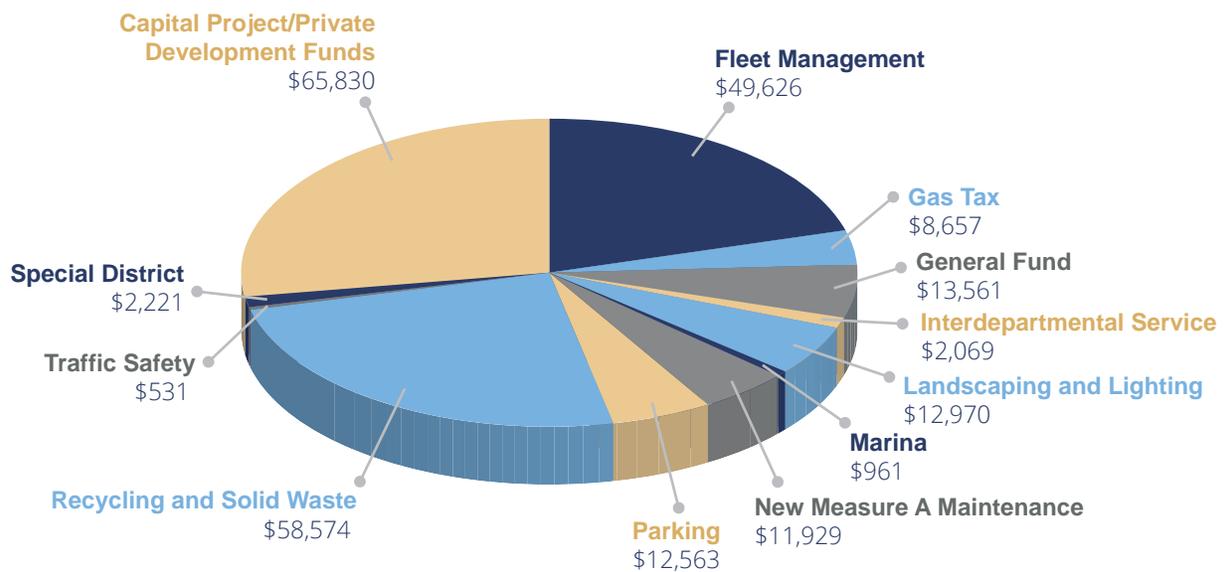
LUCINDA WILLCOX
*Policy and
Funding Manager*

PUBLIC WORKS BY THE NUMBERS

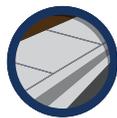
Sacramento's roads and infrastructure must be safe, sustainable and accessible to preserve our quality of life. As the oldest city in California, Sacramento has more than \$10 billion in transportation infrastructure we are responsible for maintaining, along with over 400 public buildings, over 2,600 vehicles in the City's fleet, 4,775 public parking spaces, and a closed landfill.

As funding allows, the City continuously has improvement projects either underway or in the planning stages to maintain safety and efficient operations.

DEPARTMENT FUNDING SUMMARY BY FUND TYPE
(IN \$000S)



3,000
LANE MILES
OF STREETS
MAINTAINED



3,200
MILES OF
SIDEWALK



850+
SIGNALIZED
INTERSECTIONS

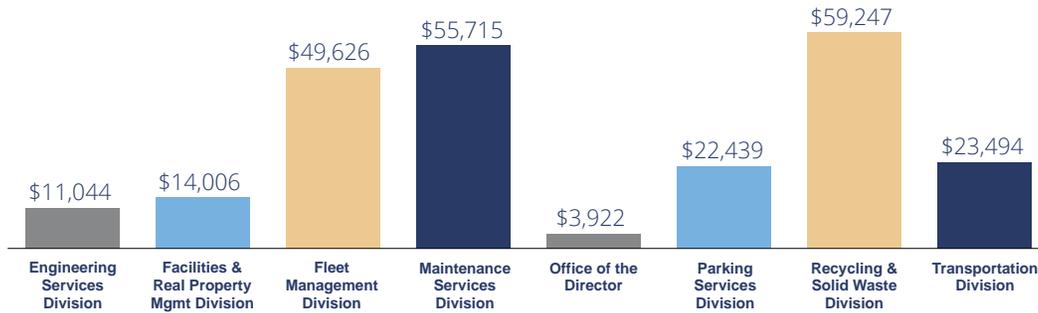


3000+
LANE MILES
OF ROADWAY

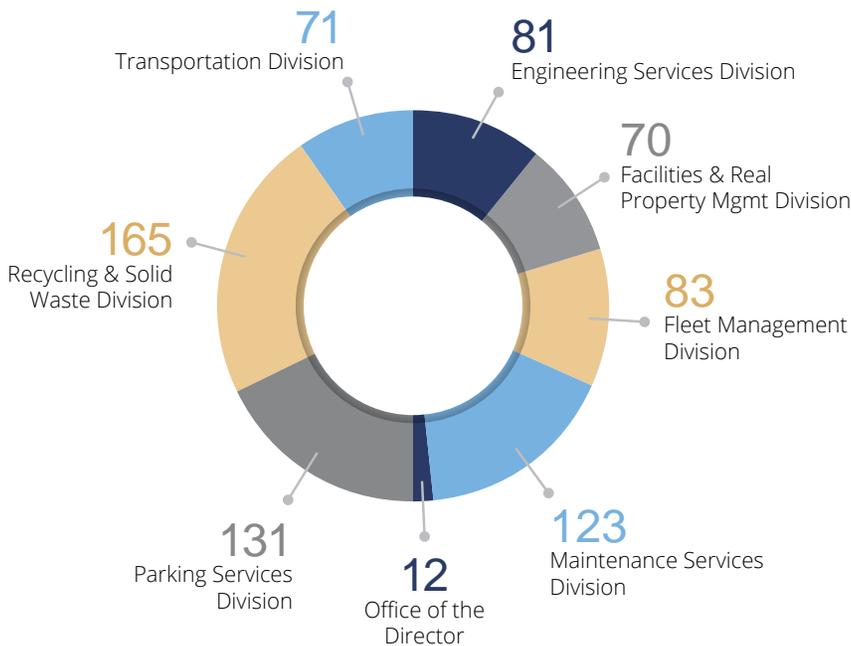


83
MILES OF
OFF-STREET
BIKEWAYS

DIVISION BUDGETS (ALL FUNDS)



NUMBER OF EMPLOYEES BY DIVISION



\$44 million
INVESTED AS ELECTRIFY AMERICA'S FIRST GREEN CITY



\$21 million
IN TRANSPORTATION GRANTS RECEIVED



67%
SAVINGS DUE TO LIGHTING RETROFITS FOR CITY COMMUNITY CENTERS AND LIBRARIES



475
BOAT SLIPS ISSUED



260
CAR SHARE VEHICLES AVAILABLE



25,000
ON-STREET PARKING SPACES MANAGED



100,000+
TREES MAINTAINED



24,500
POT HOLES PATCHED



42,000+
STREETLIGHTS MAINTAINED



18
FLOOD GATES MANAGED



150
BRIDGES MAINTAINED



250,000
TONS RECYCLED



DIVISION ENGINEERING

- Design & Construction
- Development Review
- Survey & Inspection
- Transportation Programming



Downtown Mobility Project

The Downtown Mobility Project consists of two types of improvements: Class IV protected bikeways and the conversions of specific one-way streets to two-way streets.

This is a continuation of the Downtown Bikeways Project, which has implemented lane reductions and parking protected bikeways on P, Q and 10th Streets in 2018, along with the J Street Mobility Project in 2018.



Ramona Avenue Extension Project

The Ramona Avenue Extension Project improved pedestrian and vehicular connectivity to the north and south of US Highway 50 with an extension of Ramona Avenue from Brighton Avenue to Folsom Boulevard. The project constructed a new, two-lane roadway that includes bicycle lanes in both directions and a separated sidewalk with landscaping adjacent to northbound traffic.

The project will facilitate a future extension of Ramona Avenue into the CSUS campus, providing an additional access to the university.





Construction Management Integrated Software

The City's Construction Services team has implemented Construction Management Integrated Software which is web-based and data-based. With its use, the user can provide deliverable construction inspection reports in a more efficient and user-friendly electronic format. Inspectors can prepare a detailed report in the field that includes all information that typically goes into a daily diary. With the coordinated efforts from all areas within the City, staff is now able to make more efficient use of time between the field and the office.



Highway Safety Improvement Program

In recent years to-date, the City has been awarded \$17M in federal funds through the Highway Safety Improvement Program Cycle 7 and Cycle 8 for projects that were identified as part of a proactive safety analysis by the City reviewing citywide crash data involving pedestrians and bicyclists. Appropriate safety countermeasures were identified for project implementation which included pedestrian islands, flashing beacons, signal head replacements, and advanced dilemma zone loop detection.



Folsom Boulevard Complete Streets Rehabilitation

The Folsom Boulevard Complete Streets Rehabilitation Project included rehabilitation of the pavement section (base repair, key cutting and overlay), widening of Folsom Boulevard, continuous sidewalk and bike lanes on both sides of Folsom



Boulevard, on-street parking where feasible, installation of new drainage/sewer improvements, and street lighting. These improvements have enhanced safety on Folsom Boulevard for all modes of traffic and facilitate future development activity along the corridor.



R Street Phase III

The R Street Phase III Project, 13th Street to 16th Street, is the third and final phase of a three-phase revitalization of R Street in downtown Sacramento. It bridges the gap between the R Street Phase I Project, 10th Street to 13th Street, and Phase II between 16th Street and 18th Street.

- Improved pedestrian safety and accessibility and provided streetscape improvements while maintaining the street's historic sense of shared space between pedestrians, bicyclists, and vehicles.
- Restored the area, while integrating the heart and soul of R Street.
- Catalyst for development in the area of the Sacramento Center and the R Street Corridor.



The I Street Bridge Replacement Project

The new bridge will be the first in more than 50 years to cross the Sacramento River. Since the times of the I Street Bridge (1912), the Tower Bridge (1935), and the Pioneer Bridge (1965), many things have changed: the waterfront, environmental considerations, transit, how people travel, and the importance of connecting two thriving cities.

The cities of Sacramento and West Sacramento have agreed that a new “neighborhood friendly” bridge needs to be constructed north of the existing I Street Bridge. The new I Street Bridge will increase economic development and riverfront access, make walking and bicycling across the river easier, reduce traffic delays, and improve travel safety and emergency access. The new bridge will be movable, have wide sidewalks and bike lanes, and will accommodate a future streetcar. The existing I Street Bridge will remain to accommodate train traffic, but the roadway approaches to the top level of the bridge will be removed.

In 2018, the cities developed and implemented a design competition to engage a bridge architect to join their team for the design of the new bridge. In 2019, the winning architect with the project team will host a series of public meetings to gather input for the architectural design of the bridge.

The Del Rio Trail Project

With the first phase recently funded by the Sacramento Area Council of Governments, the proposed 4.5-mile Del Rio Trail project consists of a Class I multi-use path (12 to 16 feet of pavement with decomposed granite shoulders ranging from 2 to 3 feet) along the abandoned agricultural railway corridor west of Freeport Boulevard from south of Meadowview Road/Pocket Road to the Sacramento River Parkway north of Sutterville Road. The project will incorporate context-sensitive design features that respect the historic railway use of the corridor while providing a safe path of travel for bicyclists and pedestrians. Within surplus space along the corridor, future opportunity sites that would complement the trail have been identified for nature walks, urban gardens, playgrounds, workout stations, and other park themed amenities.



Sutter Park Neighborhood Development

The Sutter Park Neighborhood is a new neighborhood situated in East Sacramento on the former site of Sutter Memorial Hospital. The approximately 20-acre site is bounded to the northwest by 51st Street and to the south by F Street, with existing single family residential surrounding it apart from a medical office building located adjacent to the southeast portion of the site.

This project presents a rare opportunity for the City of Sacramento to weave an infill and reuse a site into the existing fabric of the community. By focusing high-quality development into this strategic location, the project serves to complete the East Sacramento grid. The neighborhood will create new opportunities for a variety of healthy lifestyles, including opportunities to recapture elements of the earlier era of local producing gardens.

This is a 95 lot subdivision within 19 acres for the first phase and will include an additional 9 lots in the 2nd phase. Construction for Phase 1 was completed in 2018.



DIVISION FLEET



- **Vehicle & Equipment Maintenance & Repair**
- **Procurement**
- **Fueling**
- **Greenhouse Gas Innovation**
- Ranked 2nd in North America for Largest Green Fleet
- Installation of 28 electric chargers for electric vehicles for the City of Sacramento at 300 Richards Blvd.
- Installation of CAM module to our Fleet software
- On track to once again replace all 2018/19 vehicles approved in the current budget





DIVISION

FACILITIES AND REAL PROPERTY MANAGEMENT

- Architecture & Engineering
- Facility Maintenance
- Real Property
- Sustainability

Fire Station 15

Public Works Facilities and Real Property Management partnered with the Sacramento Fire Department to deliver the new Fire Station 15 in 2018. Completed and occupied in December 2018, Fire Station 15 is located at 1640 West El Camino.

Fire Station 15 replaces the former station at Newborough Dr., constructed in 1982 as an interim Fire Station. This 9,311 sq. ft. station sleeps 10 firefighters, and was built to LEED Silver standards. Fire Station 15 utilizes on-site storm water management techniques, and incorporates daylighting in the living quarters and apparatus bays. Solutions like an isolated 100% exhaust room for turnout gear, an apparatus bay diesel fume exhaust system, and engine company-sized dorm rooms are examples of best practices incorporated into the design of Fire Station 15.



Softball Complex Waterline Replacement

This project installed a new water service to feed the City of Sacramento Softball Complex. The project included installing over 4,000 feet of water line across the Haggin Oaks Golf Course to provide water service to the Softball Complex to supplement the non-potable water available via well. This project supports ongoing public use of the Softball Complex allowing for drinking fountains and food service on site.



Fairytale Town ADA Parking Improvement

The on-street disabled parking and the walkway at 15th Avenue and Land Park Drive was upgraded to be code compliant. The disabled parking upgrade is a continuation of needed improvement work that arose from a trip and fall accident on the asphalt walkway along 15th Avenue and Land Park Drive. The work consisted of demolition of asphalt concrete sidewalk and disabled parking spaces replacing both with concrete construction, parking striping, and signage. The accessible parking serves all visitors of Fairytale Town, the Zoo, Amphitheater, Duck Pond, and families using the soccer field and the large picnic areas.



Fire Station Vehicle Exhaust Extraction Systems

This project installed vehicle exhaust extraction systems at 6 fire stations. These systems capture and removed the carcinogenic emissions of fire equipment as it exits the fire station; the remaining 12 stations will be completed this year. The reduced emissions improved the indoor air quality throughout the station by removing contamination risks and improved the general health and safety of our fire staff.



300 Richards Blvd. Fleet EVSE Upgrade

This project installed 26 new electric vehicle chargers at the 300 Richards Blvd. building to support the deployment of fleet electric vehicles to be used by Parking, Development Engineering, and Community Development. The deployment electric vehicles will help the City reduce greenhouse emissions, as well as save on fuel and maintenance costs. The project also improved the accessibility of the existing chargers and provided expansion capacity for future electric vehicle deployments.



SACY, Building 1 – 311 Office Remodel and Electrical System Upgrade

This project remodeled the existing 2,800 sq. ft. 311 call center, providing new furniture to facilitate 6 additional workstations. Additionally, new carpet, paint, and LED lighting were installed to upgrade the interior quality. The new furniture features movable work surfaces and integrated monitor mounts to improve ergonomics, space efficiency, and accessibility. The building electrical infrastructure was improved to allow for greater reliability and serviceability.



Boys & Girls Clubs of Greater Sacramento

Public Works Facilities and Real Property Management partnered with City Youth, Parks & Community Enrichment (YPCE) to deliver the Community Center at Shasta Park. This facility is being leased to the Boys & Girls Clubs of Greater

Sacramento, and is being operated as its North Laguna Boys & Girls Club branch. The facility is 2,880 sq. ft., featuring a landscaped yard and a paved rear yard with a greenhouse. This facility is tucked in between the Shasta Park and the Valley Hi – North Laguna Library, and will provide area youth with ample access to both the Park and Library.



Martin Luther King Jr. Library – ADA Parking Lot Improvement

The existing disabled parking spaces serving the Martin Luther King Jr. Library were upgraded to meet the current accessible parking code provisions. The built-up curbs at the parking access aisles was a source of patrons’ grievances and needed to be reconstructed with code compliant curb cuts. The asphalt pavement of the existing disabled parking spaces and the access aisles exceeded the maximum code compliant slope for accessible parking. At the front patio, the deteriorating wooden spacers separating the exposed aggregate concrete sections created voids and resulted in a potential risk to injury to the patrons of the Library.



The work consisted of demolition of asphalt concrete (AC) disabled parking spaces, walkway and front patio, parking striping and signage. Also included in the improvement project was the installation of a new automatic sliding door.



Lighting Energy Efficiency Upgrade – Phase #1

This project involves the procurement and installation of LED lamps, LED light fixture retrofit kits, and lighting fixture ballasts for the following sites: Del Paso Library, McKinley Library, South Natomas Library, Clunie Community Center, Hagginwood Community Center, Oak Park Community Center, Samuel C. Pannell Community Center, and the South Natomas Community Center. The LED retrofit reduces energy consumption, reduces maintenance costs and improves the overall lighting of the community centers and libraries.



Sam and Bonnie Pannell Community Center Kitchen Remodel

The kitchen will be opening in March 2019 for a soft opening inside the Sam & Bonnie Pannell Community Center Pool Building. Fresher Sacramento has signed on as a tenant, and will be utilizing the formerly vacant space to provide low-cost ready-made meals to the surrounding neighborhoods and greater community.

SACY Cleanup, Phase 2

Work was completed in October 2018 to remove lead dust accumulations in 19 buildings at the South Area Corp Yard (SACY). Confirmation samplings showed that all buildings were reduced to safe levels, and we received clearances to occupy the buildings.



Crocker Art Museum Stair Rail Replacement

The East side of Historic Crocker facing 3rd Street has stairs to the first floor of the Hastings house. The stair rails were in poor condition and in need of repair. Facilities Maintenance facilitated the repairs to make sure we kept to the historic look and workmanship of the original time period.



South Land Park (SLP) Corp Yard Damage Repair

The SLP Corp Yard building was damaged by a fallen tree during one of our past storms. Much of the steel that held the roof was damaged during the incident. Facilities solicited the help of one of our general contractors to assess and repair the damage.



North Market Roof in Old Sacramento

North Market was recently turned back over to the City of Sacramento from the State who leased the building for several years. The building needed repairs so it could be turned into a leasable space. The first item to be repaired on the building was to replace the end of life roof. Repairs and upgrades continue to be performed and planned.



Fire Station 16 Remodel

Station 16 is an older station and was in need of some remodel work. The work included:

1. Full station abatement of hazardous materials.
2. New kitchen and fixtures.
3. New flooring and lighting throughout the station.
4. Leaking skylights were removed from the women's restroom and the roof extended out and exterior wall stucco'd.
5. New data and alerting system.
6. New asphalt parking lot.
7. New concrete apron in front.





DIVISION TRANSPORTATION

- Traffic Control & Lighting
- Telecommunications Engineering
- Civil Engineering
- Traffic Investigations

- Held the inaugural Sunday Street event by closing Broadway to cars and opening it up to the community to engage in healthy activities.
- Led the City Council adoption of the City's Vision Zero traffic safety goal to eliminate traffic related fatalities and severe injuries by 2017.
- Sacramento became a member of the National Association of City Transportation Officials (NACTO). NACTO is an association of 63 major North American cities and 10 transit agencies working collaboratively on transportation to build better cities.



- Implemented the City's first parking protected bikeways in downtown and successfully secured \$5 million of state funds for further expanding the network.
- Worked with Verizon allowing the City to become one of the first 5G cities in the world.

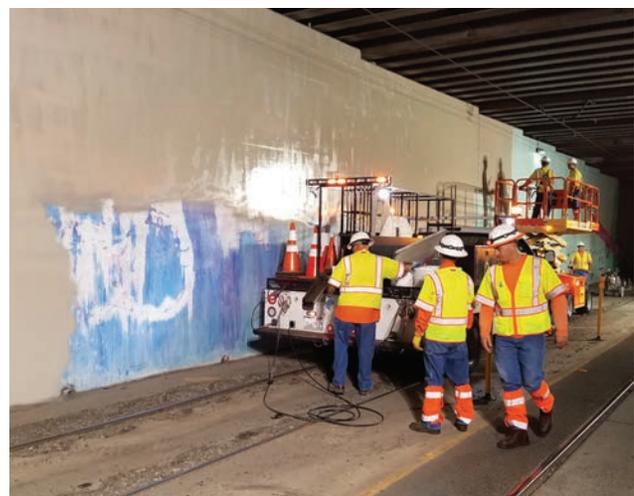




- Received and recommended for approximately \$21 million in transportation grants to help meet critical mobility and safety needs.
- Completed the City's largest Speed Lump Project. Traffic Signs & Markings, Traffic Investigators and Maintenance Services/Streets worked closely together to complete this project in a timely manner.
- Traffic Signs & Markings completed the Ice Blocks Project. Removed old markings and installed new pre-form thermoplastic markings

on R Street from 16th to 18th Street. This project was very labor intensive.

- Completed the re-painting of the 12th Street underpass bridge project. Traffic Signs & Markings, Maintenance Services/Streets and Regional Transit worked closely together to clean and re-paint the underpass bridge. This project was completed over four weekends.






Crush it!

Crush cans before you put them in the recycle bin.



Recycling & Solid Waste

CLEAN AIR VEHICLE



DIVISION

RECYCLING AND SOLID WASTE

- Code Enforcement
- Integrated Waste Equipment Operations
- Landfill Services
- Seasonal Services



The Recycling and Solid Waste Division is committed to providing quality customer service and efficient and cost effective residential collection services.

Optimize Operations

- Refined appliance/e-waste collection by developing collection zones which reduced drive time and customer wait time from 8 weeks to 2 weeks.
- Responded to a Cleanup and Abatement Order by installing 36 gas wells, 9 sumps, and other equipment at the 28th Street Landfill.
- Relocated water tower from McKinley Village to Sutter's Landing Corp Yard.



- Completed outreach and began implementation of new monthly restricted parking in the Central City Services area allowing sweepers to access curbs and improve service.
- Improved point to point routing with most current authoritative street network, reducing use of paper by ~50%, and reducing drive times.
- Improved leaf season collection by meeting the 14-day level of service 90% of the time.
- Painted Meadowview buildings 1 & 2.
- Added 14 new sideloaders and one new rearloader for improved reliability and carbon emissions reduction.
- Installed wi-fi hotspots in supervisor trucks, improving communications and zonar capability in the field.





Quality Customer Service

- Updated recollect system so customers can customize alerts to specific commodities.

Employee Development

- Provided Supervisory Academy Training to ten future front-line supervisor candidates.
- Trained supervisors on field activity completion in the billing system.



Reliable And Sustainable Funding

- Purchased two new flatbed trucks for appliance/e-waste collection enabling the division to stop renting two flatbeds and reduce operating costs.
- Implemented a paint stewardship program called PaintCare at our Household Hazardous Waste Collection Facility, where the division will receive more than \$10,000 annually in new revenue and eliminate more than \$65,000 in annual disposal costs for paint.
- Participated in the Mattress Recycling Council Illegal Dump Compensation Program and received more than \$47,000 in payments by tracking illegally dumped mattresses.

DIVISION

MAINTENANCE SERVICES

- Concrete and Maintenance Repair
- Pavement Maintenance & Repair
- Streetscapes
- Urban Forestry



Roadway Resurfacing Project

Development of the City's largest Roadway Resurfacing Project allocated \$16,000,000 to the preservation and restoration of arterial and neighborhood streets.

With over 3,000 lane-miles of streets, the City of Sacramento owns and maintains the fifth largest city street network in California. The recent passing of the Road Repair and Accountability Act (Senate Bill 1) triggered an influx of additional funding to maintain the transportation system. During the year of 2018, the City was able to deliver its largest roadway resurfacing project which allocated \$16 million to the preservation and restoration of arterial and neighborhood streets. The Department of Public Works is committed to cost-effective pavement maintenance strategies to meet their mission and vision to "provide innovative and sustainable public infrastructure and services" and to "preserve and enhance the quality of life," respectively.



Completed a Floodgate Assessment of the Department's 18 Floodgates

The City of Sacramento is situated at the confluence of two major rivers, the Sacramento and the American, which makes it susceptible to river floods. The levees that protect the City are designed to provide a high level of flood protection. Floodgates allow roads and railroads to pass through openings in levees during the dry season. The Department of Public Works operates and maintains 18 floodgates in the flood protection system. These floodgates range in age from almost 100 years old to less than 5 years old with the majority being over 50 years old. With the age of the floodgates and current standards in mind, Public Works completed a comprehensive assessment of the floodgate system in 2018. Information gathered from this assessment will help guide the City on prioritizing needed restoration to maintain the system in a state of good repair.





DIVISION PARKING

- Parking Enforcement
- Off-street Parking
- Sacramento Marina Operations
- Business Development & Client Relations

Advances in Parking Enforcement

The 2017-2018 fiscal year ushered in new innovations in parking enforcement technology that not only reduced carbon emissions, but increased efficiencies and accuracy in reporting.



Electric vehicles now comprise the majority of our fleet while upgraded handhelds now connect with smart meter data to provide real-time reporting. AutoVu cameras in enforcement vehicles also provide officers real-time pictures to monitor where potential stolen vehicles were found.



Sacramento Marina Making Waves

The Sacramento Marina is going strong with the annual boat slip occupancy at 80% and the addition of Police Observation Devices (PODs) to increase security for customers. Structural improvements were also recently made and efficiencies were gained with the installation of upgraded marina software to better track occupancy and sales.

parking solutions for their employees, tenants and customers. Parking Services now manages over 65 parking locations on behalf of clients. These managed locations ensure underutilized locations are made available to the public and promote the mantra of tapping into shared resources to reduce not only our carbon footprint, but to ensure long-term parking off the street to provide more turnover on the street for short-term parking. Services also include sign design, equipment leases and general maintenance of the facility. Client services also extend to the street where clients may need assistance with curbside management.



Parking Management Solutions

Aside from maintaining public parking on the street and in City-owned garages and lots, the Parking Services Division also provides invaluable resources to property and building owners seeking

Parking Access and Revenue Control System Upgrades

All City of Sacramento garages were upgraded with the Amano-McGann Parking Access and Revenue Control System to provide faster entry and exits for customers, along with more convenient payment machines. Staff now utilize handheld devices to accept credit cards and scan parking reservations while being able to monitor parking occupancy during large events. The SacPark online reservation system has also seen great success with over 586,000 transactions since its introduction in September 2016. The increase in reservations assists parking staff by providing the information needed to ensure garages are properly staffed on event nights.



vehicle parking options, provider of mobile meter payments and the convenience of smart meters that allow motorists to stay a little longer when necessary. Municipalities from across the country and as far as Buenos Aires have also taken notice. The SacPark system provides customers with more options than ever before to make their visits more enjoyable and parking easier than ever!



SacPark Making a Name for Itself

The Parking Services Division was honored as the 2016 Public Parking Program of the Year by the California Parking Professionals Association (CPPA). Later, on February 7, 2017, SacPark was recognized as a registered trademark by the United States Patent and Trademark Office. The Parking Services team was also invited to be speakers at the 2017 CPPA Annual Conference to share our success story



and municipal parking strategies. Since then, SacPark has become a name that customers recognize as the best source for event parking, electric

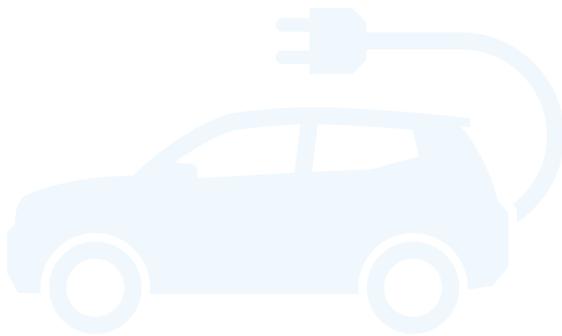
Improving the Customer Experience

The last year in Parking brought changes to long-standing ordinances in order to improve the customer experience. There are now four additional free meter holidays during the year and a pilot program for educational institutions to facilitate a balance of the parking supply between schools and residents in high impact areas. Part of the customer parking experience also includes proximity to amenities. Vela Café in City Hall Garage is still going strong and the new additions of Starbucks Coffee in Capitol Garage and Goodside Coffeehouse in Memorial Garage will provide convenient food options.



SUSTAINABILITY UPDATES

- As part of a new electric car-sharing program launched by the City of Sacramento and partners Electrify America and Envoy, the Sac-to-Zero initiative was the first electric car share in Sacramento funded by Electrify America. The City has been working to increase access to zero-emissions vehicles, expand ZEV technology use and prepare Sacramento for future electric vehicle adoption. Over a 10-year period ending in 2027, Electrify America is investing \$800 million in California to install electric vehicle-charging infrastructure, ZEV education and access programs, electric vehicle charging infrastructure, zero emissions car sharing, and electric shuttle and bus programs in the U.S.
- In 2018, the City's new Car Share program was established to operate 260 all-electric Chevy Bolts in a free-floating car share program.
- The City's first curbside EV charging pilot was installed in Southside Park. Three chargers are available for public use in the City's right-of-way, including three 50-kW DC fast chargers and three 150-kW high-power chargers. The 150-kW chargers can provide up to 240-mile range in as few as 20 to 30 minutes.
- Public Works secured an EV Blueprint planning grant from the California Energy Commission, for approximately \$200,000.



City of
SACRAMENTO
Department of Public Works

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