

CITY OF CORONA PUBLIC WORKS DEPARTMENT



2017 / 2018 Biennial Report

April 17, 2019

A Message from the Director



On behalf of the Corona Public Works Department, I am proud to present the Biennial Report for the years 2017-18. This report represents the culmination of the Department's efforts to provide quality service and infrastructure to the citizens of Corona.

The City of Corona Department of Public Works continues to focus on providing exceptional and responsive customer service in a number of diverse areas: Land Development, Permitting, Capital Improvement Projects, Traffic Engineering and Signals; and Transit Services. This report seeks to highlight many of our notable achievements in 2017 and 2018.

Even with all we have accomplished, we face serious challenges in the coming years. Our biggest departmental challenge is the increased costs associated with public works activities. Projections for much-needed transportation and commuter projects are some of the costliest ventures we have undertaken.

Located adjacent to the principal traffic artery between Riverside and Orange Counties (SR-91), Corona is regularly confronted with the herculean task of improving the routing for average daily traffic of over 280,000 vehicles. With this number expected to increase 50-70% by 2030, we must partner with local government agencies, RCTC, Caltrans, TCA, OCTA, Riverside County and WRCOG to leverage resources and to press on toward project goals.

The bulk of the Department's funding comes from a blend of revenue divergent sources: gas and sales taxes paid by local consumers, fees paid by service users, and governmental grants. The Department continues to search for resourceful methods of fiscal ingenuity while never wavering our commitment and dedication to the City and its residents.

Corona, affectionately known as "The Circle City," was incorporated in 1896 and is located approximately 45 miles southeast of Los Angeles in Riverside County. The City encompasses over 39 square miles with a population of more than 160,000. Corona's heritage spans more than a century and has emerged as an ethnically diverse community where a significant portion of the population is comprised of young, well educated families. The Department of Public Works provides a wide variety of services to this diverse public. Our goal is to provide for the maintenance and safe use of all public facilities.

Of course, none of these accomplishments would be possible without the sustained dedication of the exceptional women and men of the Department. Encompassing 5 divisions of 30 full-time employees with diverse backgrounds, education, and personalities come together each and every day to contribute, each in their own way, to the overall success of the Department. You can read their names in the roster that appears in the back of this report, but I encourage you to take the time to read this report and see the endeavors designed to ensure that the future of Corona's infrastructure remains unparalleled.

Nelson D. Nelson
Public Works Director

Tom Koper
Assistant Public Works
Director

MISSION STATEMENT

The Public Works Department is committed to providing efficient and cost-effective engineering, land development, traffic and transit services. We strive to serve our citizens and customers in a helpful, compassionate and responsive manner.

STRATEGIC GOALS

The Public Works Department's Strategic Goals are:

- To provide prompt, courteous, and professional customer service to the community.
- To improve the quality of life within the community.
- To improve traffic flow at congested locations throughout the City.
- To promote and implement the planning and development of City infrastructure and capital improvement programs.
- To maintain City facilities at the highest level possible to ensure long-term sustainability and safe use.
- To utilize technology that would establish the most effective work methods.
- To maximize organizational productivity and efficiency.

Traffic Engineering

Land Development

Public Transportation

Capital Improvement Projects

Construction Inspection

Traffic Signal Maintenance

CAPITAL IMPROVEMENT PROGRAM

Our capital improvement program provides the road map for the construction of public facilities and infrastructure, including both new facilities and the rehabilitation or replacement of existing facilities. The Capital Improvement Project (CIP) section provides the technical assistance, direction, and management of the program through design, bidding, and construction to execute that program. They also provide in-house design services for smaller, routine projects.

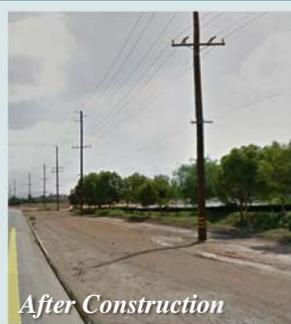
Project Name: SR 91/71 Interchange Waterline
Project No: 2015-01
Completed: December 2017
Project Cost: \$475,244

This project constructed 130 linear feet of 16-inch ductile iron pipe and abandoned 100 linear feet of existing 16-inch steel pipe. The purpose of the project was to relocate the waterline and allow for construction of the new Green River Road on-ramp overhead bridge that was built by the Riverside County Transportation Commission (RCTC).



Project Name: Ontario Zone 4 Waterline
Project No: 03-0112
Completed: May 2017
Project Cost: \$394,382

This project constructed approximately 1,750 linear feet of 12-inch ductile iron pipe along Ontario Avenue, from Kellogg to Fullerton Avenues.



Project Name: City Park Basketball & Volleyball Court Addition
Project No: 71610217
Completed: May 2018
Project Cost: \$675,486

This project was necessary to facilitate the construction of the Ion Exchange Project. The project includes the relocation of an existing basketball and volleyball court, and construction of two new half courts, picnic shelter area, lighting system and landscaping at City Park.



Project Name: Ontario Avenue Street Improvements
Project No: 2014-08
Completed: July 2018
Project Cost: \$1,500,617

Cold-In-Place Recycling (CIR) is a rehabilitation method that removes and reuses the existing asphalt surface that was used on Ontario Avenue from Magnolia to California Avenues. CIR grinds off the top 3-5 inches of existing asphalt, mixes the asphalt with a recycling agent, and then places it back down with a paver.



CAPITAL IMPROVEMENT PROGRAM

Project Name: Santa Ana River Trail Staging Area Sewer Extension

Project No: 2017-31

Completed: August 2018

Project Cost: \$276,891

Due to the Phase II construction of the Auxiliary Embankment by the Army Corps of Engineers, the City relocated existing cathodic protection equipment, and concrete encased reclaimed water and sewer pipeline located within the Prado Dam area owned by the Orange County Flood Control District (District). The City also extended an existing public sewer manhole and installed a private sewer force main as part of the project. These additional improvements will serve a future District facility that will be located along the Santa Ana River Trail.



Before Construction



After Construction

Project Name: Citywide Sidewalk Improvements, Phase I

Project No: 2017-01

Completed: March 2018

Project Cost: \$722,716

This sidewalk project included the replacement of more than 80,000 square feet of damaged sidewalks and 110 linear feet of curbs and gutters located in the South Corona area.



Before Construction



After Construction

Project Name: Home Gardens Water District Well Collection

Project No: 68420507

Completed: October 2018

Project Cost: \$6,184,558

The project constructed approximately 10,920 linear feet (LF) of 16-inch to 20-inch ductile iron water transmission pipeline from the Wells 32 and 33 site on Grant Street to the Ion Exchange Water Treatment Plant (IEWTP) at City Park, and approximately 3,060 LF of 24-inch ductile iron water transmission pipeline from the IEWTP to the City's well collection system in Joy Street. The project also included construction of approximately 550 LF of 12-inch brine waste discharge line from the IEWTP to the Santa Ana River Interceptor pipeline at the Temescal Wash. The project was required to deliver local groundwater from Well 33 to the IEWTP for treatment.

During Construction



During Construction

During Construction



After Construction

CAPITAL IMPROVEMENT PROGRAM

Project Name: Ion Exchange Treatment Plant

Project No: 68510507

Completed: November 2018

Project Cost: \$7,928,568

The Ion Exchange Treatment Plant Project was constructed to remove nitrates and perchlorates from local groundwater sources, in support of the City's efforts to develop local groundwater supplies to replace water currently imported from the Colorado River. The project, located at City Park, included construction of a 6,000 square foot concrete masonry block building with architectural enhancements reminiscent of the former City Park Municipal Plunge public swimming pool. The facility includes an ion exchange treatment system with pressure vessels loaded with resins designed to remove nitrates and perchlorates. The site is fully landscaped with drought tolerant plants and a drip irrigation system.



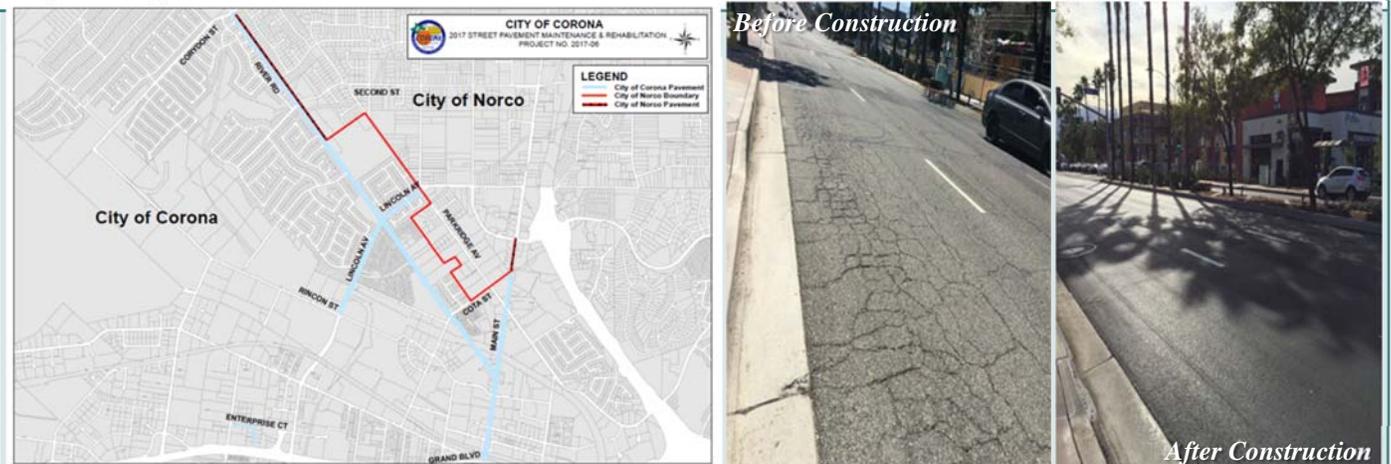
Project Name: 2017 Street Pavement Maintenance and Rehabilitation

Project No: 2017-06

Completed: December 2018

Project Cost: \$2,843,265

The project consisted of pavement rehabilitation of approximately 18 lane-miles of major streets in the northern part of the City. Completion of this project preserves the existing pavement, extends the useful life of the asphalt, and provides a smoother travel surface for motorists and pedestrians. This project also completed road improvements in the City of Norco under a cooperative agreement between the cities.

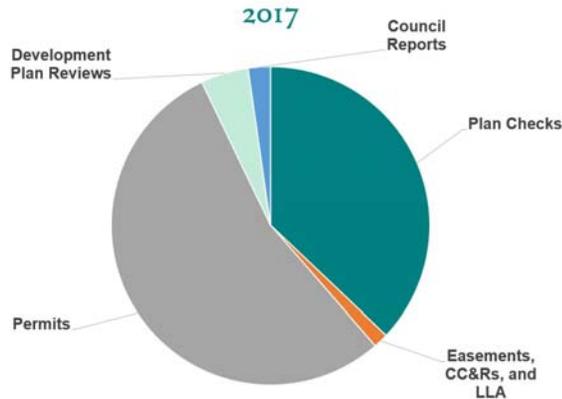


LAND DEVELOPMENT

The Land Development Section is responsible for processing development applications for adjusting land or properties to yield land development projects that are politically, economically and environmentally acceptable to land owners and the public. The goal is to ensure a safe and orderly development of raw land or redevelopment of existing land uses into new uses that comply with State and local laws, and also accepted best engineering practices. The team assists applicants of

development projects through the plan review process, using clear communication and a partnering approach to achieve an expedient and successful completion of each project.

In 2017 and 2018, Land Development processed numerous plans, lot line adjustments, permits and presented reports to the City Council. The Public Works counter staff also assisted 2,165 customers in 2017 and 4,883 customers in 2018.



Activity	2017	2018
Plan Checks	1,087	1,763
Easements, CC&Rs and Lot Line Adjustments	44	24
Permits	1,592	515
Development Plan Reviews (DPR)	142	65
City Council Reports	66	62

Current Development

Land Development projects still under construction or near completion include the following:

Arantine Hills (Phase 1)

This master planned community is designated for up to 1,806 dwelling units, 10.0 acres of commercial use, 56.8 acres of open space and 8.7 acres of parkland. Backbone utility, street, landscape and storm drain infrastructure were constructed as well as completion of the model home complex and clubhouse for the first phase of the project in 2018.



Terrano Apartments at Dos Lagos

This development constructed over 270 new multi-family homes along Temescal Canyon Road and Dos Lagos Drive. The location is within minutes to the Dos Lagos Shopping Center and championship Dos Lagos golf course. The Terrano apartment homes are surrounded by beautiful master planned communities, lively retail shops, and offer residents quick access to the adjacent 15 Freeway.



Corona Vista Commercial Center

This project is a comprehensive redevelopment of an existing church property. Corona Vista provided a new neighborhood-oriented commercial plaza and a permanent religious facility on approximately 7.3 acres at the southeast corner of Ontario and Fullerton Avenues. The commercial plaza features a new 26,000 square foot Smart & Final Extra grocery store, as well as two new commercial pads with over 11,000 square feet and 6 suites that are now home to shops like Dunkin' Donuts, MOD Pizza, Nothing Bundt Cakes, and Ono Hawaiian BBQ.



INSPECTION

This group provides a broad spectrum of services related to Public Works activities. These services include the inspection of all above ground (streets, curbs, gutters, sidewalks, streetlights, traffic signals, striping, etc.) and underground (sewer, water, storm drain, fiber optic, electrical conduits, etc.) improvements for private development, utilities, and City projects. The purpose of inspection is to ensure the compliance with plans, specifications, local, State, and Federal laws, regulations, and ordinances.

Accomplishments for 2017 and 2018

The inspection group conducted 3,198 inspections and provid-

ed inspection for 11 Capital Improvement Projects, 285 new permits, and closed 299 permits in 2017. The inspection group conducted 4,250 inspections and provided inspection for 14 Capital Improvement Projects, 337 new permits, and closed 326 permits in 2018.

Promotions/Appointments

Andrew Coover was promoted to Public Works Inspector II in 2017. Jeff Nelson was promoted to Inspection Superintendent in 2018. Tom Koper was appointed City Engineer in 2018.

TRAFFIC ENGINEERING & SIGNAL OPERATIONS

Traffic Engineering ensures that Corona's traffic circulation system is operating in a safe, efficient manner. In accordance with state and local regulation, Traffic Engineering staff plans for growth-related needs, designs system improvements, coordinates construction activities, and maintains system components for vehicles, bicycles and pedestrians.

Signal Operations is responsible for the maintenance, operation and repair of the City's traffic circulation system. This includes all aspects of the City's Advanced Transportation Management System (ATMS), traffic cameras, roadway warning beacons, enhanced crosswalks, and dynamic message signs. These facilities and equipment provide for the safe and efficient travel for the motoring public throughout Corona. Signal Operations is responsible for maintaining all of the following equipment:

Equipment Type	Quantity
Radar Speed Limit Signs	12
City Traffic Signals	166
Dynamic Message Signs	8
Changeable Message Sign Trailers	6
Traffic Signals in Corona	202
Traffic Devices	232
Enhanced Crosswalks	15
School Timer Flashing Beacons	9

Accomplishments for 2017

- New school beacons installed at Corona Ranch Elementary
- New enhanced pedestrian crosswalk locations:
 - Blaine at Metrolink Station
 - Harrison, west of Main Street

- Rincon, west of Main Street
- New traffic signals installed at:
 - Serfas Club and Rancho Corona
 - Activated Monterey Peninsula and Palisades signals on Serfas Club
 - Lincoln Avenue and Shopping Center
 - Main and Eighth Street
 - Sixth and Belle

Accomplishments for 2018

- New traffic signals installed at:
 - Eagle Glen and Masters
 - Eagle Glen and Clementine

Responsive Service

Traffic Engineering and Signal Operations not only monitor and analyze the existing traffic circulation, but also respond to inquiries from the public regarding areas of concern. Traffic Engineering performed the following activities in 2017 and 2018:

Activity	2017	2018
Traffic Signal Service Calls	715	462
Preventive Maintenance Inspections	696	535
Traffic Count Studies	423	36
Traffic Device Warrant Analysis	23	19
Traffic Device Work Orders	120	105
Speeding Complaint Analysis	36	36
Speed Surveys	127	45

TRANSPORTATION

The Public Works Transportation section manages Corona’s fixed route system and demand response transit services, also known respectively as the Corona Cruiser and Dial-A-Ride. Transportation staff administers the City’s emissions reduction programs, actively seeks improvements to pedestrian and bicycle facilities, and also facilitates access to multimodal transportation options by working with regional public transit providers.

New Facilities and Equipment

In 2017, the Transportation section completed the Corona Cruiser Bus Stop Improvement Project, No. 2014-04. This project included:

- 4 new passenger shelters;
- 7 bench replacements;
- 4 new trash receptacles; and
- 10 new concrete pads at Corona Cruiser bus stops.

These improvements not only ensure compliance with American’s with Disabilities Act (ADA) requirements, but also increase pedestrian accessibility and passenger comfort.

The City of Corona introduced 11 new Compressed Natural Gas (CNG) cutaway buses to replace older buses. The new buses cost just over \$1.4 million, and were funded completely from grants, and will be used primarily for the Dial-A-Ride program. Some of the features for the new buses are:

- ADA compliant accessible, including wheelchair lifts and securing wheelchairs during trips;
- Accommodates up to 18 seated passengers, or 14 seated and 2 wheelchair passengers;
- Air conditioning, seat belts and grab handles;

- 8 video surveillance cameras and a two-way radio communications system; and
- An onboard fire suppression and methane detection system.

Service Changes

Several important changes to the transportation services have occurred over the past two years. The Corona Cruiser’s eastbound Blue Line and westbound Red Line added a stop and increased its hours of operation.

- The Corona Cruiser returned service to the Corona Senior Center and the Corona Public Library along Belle Avenue.
- The Corona Cruiser implemented an earlier service start time of 6:30 a.m. to better accommodate students’ needs for school transportation.

A major change occurred to the Dial-A-Ride (DAR) program in 2018. On August 16, 2017 the Corona City Council approved changing the DAR program from providing services to

the general public to exclusively providing service for senior citizens, ages 60 and older, persons with disabilities, and individuals certified for complementary paratransit service under the ADA.

Lastly, in September 2018 a new company took over transit services for both the Corona Cruiser and DAR programs—MV Public Transportation. MV Public Transportation’s contract is for three years, with an option to extend it for an additional two years.



DEPARTMENT ROSTER

Administration

Nelson D. Nelson, P.E.	Public Works Director
Tom Koper, P.E.	Assistant Public Works Director/City Engineer
	Executive Assistant II
Dana Romeo-Powers	Public Works Specialist
Laura Lopez	Administrative Assistant

Capital Improvement Projects

Vernon R. Weisman, P.E.	District Engineer
Barry Ghaemi	Senior Engineer
Mohammed Ibrahim, P.E.	Senior Engineer
Serena Hinojosa	Utility Engineer
Ulises Escalona	Associate Engineer
Katherine Wong	Associate Engineer
Alisa Chheav	Intern II
Joselyn Nuflo	Intern II
Kiana Sarad	Intern II
Mohamad El Cheikh	Intern

Inspection

Jeff Nelson	Inspection Superintendent
Andrew Coover	Inspector II
Brian Ladnier	Inspector II
Julianna Zaleski	Inspector I
Stephanie Lucido	Office Assistant

Land Development

Michele Hindersinn, P.E.	Senior Engineer
Chris Horn, P.E.	Senior Engineer
Zachary Murray	Utility Engineer
Karen Avveduto	Permit Technician
Micky Leyva	Permit Technician
Andrea Cisneros	Office Assistant
Amber Campbell	Intern II
Noe Herrera	Intern II
Laura Lopez	Intern II

Traffic Engineering

Dennis Ralls, T.E.	Program Manager
Rosalva Ureno, P.E, T.E.	Senior Traffic Engineer
Aaron Cox	Associate Traffic Engineer
Gabriel Hernandez	Traffic Signal Coordinator
Corey Griffio	Traffic Signal Technician
Scot Miller	Engineering Technician
Quoc Tran	Traffic Management Center Technician
Maria Flores	Intern II
Diego Tapia	Intern II

Transportation

Sudesh Paul	Transportation Planning Supervisor
Gerardo Sanabria	Associate Engineer

Partner Agencies

