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RIVERSIDE COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT

**AGENDA**

Commissioners of Zone 2 of the Riverside County Flood Control and Water Conservation District will hold a Public Capital Improvement Plan (CIP) Budget Hearing at 2:00 p.m. on Thursday, December 12, 2024 at the Riverside County Flood Control District office, 1995 Market Street, Riverside.

The purpose of this meeting is to receive requests from interested parties for project funding for the CIP budget for Fiscal Year 2025-2026.

1. Chief Engineer's Report of Zone Activities.
2. Receive requests from interested parties for projects for Fiscal Year 2025-2026.
3. Oral communication from the audience.

**The Public CIP Budget Work Session is set for 2:00 p.m. on Tuesday, February 11, 2025 at the Riverside County Flood Control and Water Conservation District office, 1995 Market Street, Riverside. The purpose of the meeting is to present the draft CIP budget for Fiscal Year 2025-2026 for consideration by our Zone Commissioners.**

**Zone 2**  
**Report to the Zone Commissioners**  
 By Jason E. Uhley, General Manager-Chief Engineer  
 November 2024

The District maintains a 5-year Capital Improvement Plan (CIP) which identifies projects that the District intends to fund over a 5-year period. Information on our overall CIP can be viewed at <https://rcflood.org/cip>.

This report has been prepared by District staff to provide a status update on CIP projects that are either completed or otherwise expected to be active during the current fiscal year.

## Completed Projects

These projects were recently completed and will not show on future updates to our 5-year CIP.

### Norco Elementary School Storm Drain, Stage 0 (2-6-10048-00)

This was a City of Norco-led project to reduce street and community flooding. It consisted of 1,500 feet of 24-inch to 36-inch storm drain pipe that collects flows along Temescal Avenue and Norco Elementary School and conveys them to South Norco Channel Line SA. The City of Norco is responsible for operation and maintenance of the facility. This project was funded by the District.

The project has been completed, and a Notice of Completion was filed in January 2024.

### Norco MDP Lateral NA-6, Stage 0 (2-6-10054-00) *[formerly Norco - Fifth Street Storm Drain, Stage 1 (2-8-00087-01)]*

This was a City of Norco-led project that installed approximately 2,700 feet of 42-inch to 48-inch reinforced concrete pipe in Corona Avenue, 5<sup>th</sup> Street and Temescal Avenue that alleviated flooding on the private properties between Temescal Avenue and Corona Avenue. Flows are conveyed from Fifth Street and outlet into existing North Norco Channel Line NA. The City of Norco is responsible for operation and maintenance of the facility. This project was funded by the District.

The project has been completed, and a Notice of Completion was filed in February 2024.

### Norco MDP Line S-2, Stage 1 (2-8-00164-01)

This was a City of Norco-led project that provided flood protection to properties along Second Street. The project consisted of approximately 2,700 feet of reinforced concrete pipe (18-inch to 40-inch) along Hillside Avenue and conveys flows to the existing South Norco Channel, west of Corona Avenue. The City of Norco is responsible for operation and maintenance of the facility.

This project was funded by the District. The project has been completed, and Notice of Completion was filed in January 2024.

### El Cerrito Channel Restoration, Stage 90 (2-8-00110-90)

This was a District-led project that replaced approximately 2,300 feet of existing concrete trapezoidal channel with higher capacity reinforced concrete box and concrete rectangular channel of varying dimensions. The primary objective was to provide 100-year flow capacity within the proposed facility and remove the existing Federal Emergency Management Agency (FEMA) floodplain. The project collects flows from two existing storm drain systems at the El Cerrito Road-Temescal Canyon

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Road/Ontario Avenue intersection and conveys the water northeasterly to Temescal Creek. The District is responsible for operation and maintenance of the project improvements. This project was funded by the District.

Construction of the project has been completed, and the Notice of Completion was recorded on July 3, 2024. The Letter of Map Revision used to remove the existing FEMA floodplain was submitted June 2024.

### **First Street Storm Drain (2-6-10050-00)**

This was a City of Norco-led project that reduced street and community flooding. It consisted of 900 feet of 30-inch diameter storm drain that collects flows within First Street and conveys them west into an existing Interstate 15 Caltrans culvert. The City of Norco is responsible for operation and maintenance of the facility. This project was funded by the District.

Project construction has been completed.

## **Current Construction**

These projects are under construction as of the preparation of this report.

### **Norco MDP Line N-4 Extension (2-6-10027-00)**

This is a City of Norco-led project to construct 2,900 feet of storm drain ranging from 24 inches to 36 inches in diameter. The project will collect water along Valley View Avenue and 4<sup>th</sup> Street to convey it westerly toward Interstate 15, outletting into the existing North Norco Channel. This project will reduce street and community flooding along 4<sup>th</sup> Street and Valley View Avenue. The City of Norco will be responsible for operation and maintenance of the facility. This project is funded by the District.

The project is currently in construction and estimated to be complete in Fiscal Year 2024-2025.

### **Van Buren Sewer Improvement Project (2-6-10042-00)**

This is a District contribution to fund a joint project between the Riverside County Office of Economic Development and the City of Riverside Public Utilities (RPU) to extend the existing RPU sanitary sewer line within Van Buren Boulevard from Wood Road two miles westerly to King Avenue, including a sewer lift station on the northeast corner of Krameria Avenue and Washington Street. This project is anticipated to benefit surface water quality in the surrounding streams and rivers by bringing sewer service to a community that is currently on septic systems in a watershed that is known to have concerns about bacteria leaching into surface water runoff. RPU will be responsible for operation and maintenance of the facility. The District's contribution will cover a portion of the overall project; the remaining portion will be covered by RPU and an U.S. Economic Development Administration grant.

The Cooperative Agreement between the District and the City of Riverside was executed in August 2023.

The project is split into two projects: pipeline and lift station. The design is complete. The construction of the pipeline is in progress and is expected to be completed by end of Fiscal Year 2024-2025. The lift station is expected to be completed in Fiscal Year 2025-2026.

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### **North Norco Channel, Stage 11 (2-8-00140-11)**

This District-led project will replace an interim existing earthen channel with a higher capacity concrete-lined channel that can safely contain and convey the 100-year flow, thereby significantly reducing the floodplain along the channel. The mainline will include approximately 5,900 feet of trapezoidal and rectangular channel and will replace culverts under three street crossings (Corona Avenue, Valley View Avenue and Sixth Street). Stage 11 collects flows from the existing North Norco Channel Line N-1 storm drain at the westerly end of Rose Court and conveys them southerly to the existing confluence with North Norco Channel Line NA northwest of Valley View Avenue and Fifth Street. The project will also construct two water quality basins to reduce runoff pollutants from adjacent land. The District is to include sewer and waterline utility relocations in the construction contract on behalf of the City of Norco. The District will be responsible for operation and maintenance of the storm drain improvements. This project is funded by the District with contributions from the City of Norco for waterline and electrical relocations.

The project is currently in active construction and is expected to be complete by winter 2025.

### **Woodcrest-Rinehart Acres Drainage Plan Improvements, Stage 1 (2-8-00406-01)**

This is a District-led project to reduce street and community flooding in the Woodcrest-Rinehart Acres subdivision. The project consists of 10,250 feet of drainage-related street improvements and 8,000 feet of underground storm drain system ranging in diameter from 18 inches to 66 inches to collect flows from Mariposa Avenue to Dallas Avenue and from Obsidian Drive to Wood Road. The District will be responsible for operation and maintenance of the mainline storm drain facility, and the County of Riverside will maintain the street improvements and drainage inlets. This project is funded as a cost share between the District, the City of Riverside and Western Municipal Water District for waterline relocations.

The project has already been advertised with an estimated construction start date in February 2025.

## **Active District-Led Projects**

This section provides a status update on CIP projects actively worked on by the District during the current fiscal year.

### **PCB Remediation Temescal, (2-8-00050-00)**

This is a District-led project to remediate polychlorinated biphenyls (PCBs) found in the District's existing Temescal Creek Channel access road from El Camino Avenue to Magnolia Avenue. At the recommendation of the United States Environmental Protection Agency, the project will be capping the contaminated material by placing a 6-inch asphalt cover for 1,270 feet of the southern 28 feet wide access road around Temescal Creek Channel. This will help to prevent PCBs in the fill from spreading into the adjacent environment and channel. This project is funded as a cost share with the adjacent landowner and the District.

The Cooperative Agreement is set to be executed between the adjacent landowner and the District in fall 2024.

### **Temescal Creek Flood Plain Acquisition, Stage 1 (2-8-00052-01)**

This is a District-led project to identify and acquire up to 541 acres worth of parcels from willing sellers along the Temescal Canyon Wash that are subject to flood hazards. The approximate limits of the acquisition are between Magnolia Avenue to the north and Lake Street to the south along Temescal Creek. This is a non-structural flood hazard mitigation program with the potential to preserve or restore the natural



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habitat, improve water quality, recharge ground water aquifers and/or provide recreational opportunities. The District has partially funded this project, and as funds become available, the funding will increase.

Since the start of the project to date, the District has acquired 17 parcels and has the budget to acquire one additional parcel for the project in Fiscal Year 2024-2025.

### **Lake Mathews Cajalco Road Storm Drain, Stage 1 (2-8-00095-01)**

This is a District-led project intended to reduce street and residential flooding near Cajalco Road in the Lake Mathews area. The project was requested by a resident along High Res Way who experiences flooding of their property during storm events.

The District conducted topographic survey of the site and is currently working on the Project Charter, which evaluates the flooding problem, potential project scope, objectives and evaluates existing constraints. Collecting the floodwaters before they impact the resident would require work on Metropolitan Water District (MWD) property. MWD informed the District in July 2024 that MWD cannot support the project as the land has been permanently conserved for Stevens Kangaroo Rat Habitat. The District is evaluating whether there are other cost-effective solutions to the flooding concerns raised by the resident.

### **Mockingbird Canyon Stabilization, Stage 3 (2-8-00180-03)**

This District-led project contains roughly two miles of improvements along Mockingbird Canyon Wash from Pennington Place bridge to the Van Buren crossing downstream. The primary objective for this project is to stabilize Mockingbird Canyon Wash and reduce sediment transport and erosion that can damage public infrastructure and adjacent residences. The drainage improvements are anticipated to consist of soil bank protection and grade control structures, with a majority of the bottom left earthen and allowed to revegetate naturally. The project also includes two new crossings, one at Greenview Drive and another downstream for additional residential access. The project will also replace the existing Pennington Place bridge as well as provide an opportunity for a future trail system to be established by other entities. The District will be responsible for operation and maintenance of the facility (not including future trails). This project is funded by a combination of fees collected from the Mockingbird Canyon Area Drainage Plan and District Zone funds.

The project is currently partially funded, and funding will be increased in future years based on available revenues. The design consulting firm is nearly complete with 30% Improvement Plans, which will trigger the start of discussions with any affected landowners and environmental permitting.

### **Bedford Canyon Channel, Stage 1 (2-8-00253-01)**

This District-led project proposes to stabilize approximately 2,200 feet of Bedford Canyon Wash, located south of Cajalco Road between Interstate 15 and Temescal Canyon Road in Corona. The primary objective of this project is to safely convey the 100-year storm flows in a stabilized system from Interstate 15 northbound freeway to an existing culvert under Temescal Canyon Road in a manner that reduces erosion and sediment deposition generated in the wash. Additionally, the project will aim to accommodate space for the future Butterfield Overland Trail project (constructed and maintained by others). The District will be responsible for operation and maintenance of the channel. This project is funded as a cost share between the District and Riverside County Transportation Commission.

The District completed 90% Plans in April 2024 and is now working on completing final plans, specifications and cost estimates, with construction expected to start in Fiscal Year 2025-2026.

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## Active Partner-Led Projects

This section provides a status update on CIP projects actively worked on by partner agencies in the current fiscal year.

### Jurupa Community Services District (JCSD) Recycled Water Distribution System, Stage 50 (2-6-10018-50)

This is a JCSD-led regional project to enhance reclaimed water use and includes a series of recycled water pipelines throughout Eastvale and a pump station at the Western Riverside County Regional Wastewater Authority. This regional collaboration will increase the amount of recycled water usage from the originally planned 660 acre-feet per year (AFY) to over 3,800 AFY in the JCSD and Corona service areas. JCSD will be responsible for operation and maintenance of the facility. This project is funded as a cost share between the District and multiple partners (primarily JCSD with approved grants from State Water Resources Control Board and US Bureau of Reclamation), including the Cities of Corona and Norco, Western Municipal Water District and Home Gardens Sanitary District.

The pump station design was completed in December 2023. On June 4, 2024, JCSD held a groundbreaking ceremony to mark the start of construction for the project. Construction is anticipated to occur in phases over several years.

### Butterfield Drive Reclaimed Water Flow Control Station, Stage 50 (2-6-10029-50)

The City of Corona-led project will construct a 16-inch flow control station pipe to connect the existing 20-inch reclaimed waterline at Butterfield Drive to the existing 24-inch steel reclaimed pipeline delivering reclaimed water from the Water Reclamation Facility #1 (WRF1) reclaimed water storage tank to the Cota Ponds. The project will also include using high density polyethylene pipe to slip line approximately 4,000 feet of the existing 24-inch steel pipe from WRF1 to the proposed flow control station site. This project will, in conjunction with other projects, help transport approximately 12,000 acre-feet of reclaimed water per year for beneficial re-use. The City of Corona will be responsible for operation and maintenance of the facility. This project is funded as a cost share between the District and the City of Corona.

Design is expected to be complete in the fall 2024.

### Corona South Joy Street Storm Drain (2-6-10031-00)

The City of Corona (City)-led project proposes to construct 1,600 feet of 36-inch diameter reinforced concrete pipe. The facility will convey storm flows from Seventh Street to Second Street and tie into an existing culvert under the 91 Freeway. The project will alleviate street flooding experienced along the streets. The City of Corona will be responsible for operation and maintenance of the facility. This project is funded by the District.

The Cooperative Agreement between the District and the City was executed in July 2024. Design is anticipated to begin in winter 2024.

### Corona - East Grand Boulevard Storm Drain (2-6-10032-00)

The City of Corona-led project proposes to construct 1,600 feet of 36-inch diameter reinforced concrete pipe. The facility will convey storm flows from Seventh Street to Third Street and tie into the existing Corona Line 52 storm drain. The project will alleviate street flooding experienced along the streets. The

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City will be responsible for operation and maintenance of the facility. This project is funded by the District.

The City of Corona plans to release a Request for Proposals in 2024.

**Norco North Drive & Grulla Storm Drain (2-6-10038-00)**

This is a City of Norco-led project to reduce street and community flooding by upgrading an existing facility. It consists of 2,750 feet of storm drain pipe collecting runoff from the intersection of Crestview Drive and North Drive and conveying it northwesterly into the Santa Ana River. The City of Norco will be responsible for operation and maintenance of the facility. This project is funded by the District.

The Improvement Plans are 90% complete. The project is phased to accommodate construction of the adjacent lift station.

**Eastvale Alternative Drainage & Water Quality (2-6-10040-00)**

This is a City of Eastvale (City)-led study to evaluate the feasibility to retrofit existing surface Best Management Practices (BMP) from private land to be repurposed for potential multi-use/public benefits for the City. Some of the potential solutions for these relocations are alternate/underground drainage detention, retention, infiltration and water quality improvement facilities. The study will also evaluate ways to address the water quality issue of pollutants discharged to the Santa Ana River during the dry season. This project is funded by the District.

The Cooperative Agreement between the District and the City was executed in February 2023. The City's consultant is currently working on the BMP Retrofit Master Plan with the final report expected in Fiscal Year 2024-2025.

**Norco Town & Country Drive Storm Drain (2-6-10043-00)**

The City of Norco (City)-led storm drain project consists of approximately 1,500 feet of 30-inch reinforced concrete pipe within Town & Country Drive that conveys flows from Tara Lane and Horseless Carriage Drive toward Hamner Avenue. The project will reduce flooding in the surrounding area. The City of Norco will be responsible for operation and maintenance of the facility. This project is funded by the District.

The Cooperative Agreement between the District and the City was executed in July 2024. The improvement plans are 90% complete with construction expected to begin in Fiscal Year 2024-2025.

**Norco Minor Storm Drain Improvements: (1) Parkridge Avenue & (2) North Drive (2-6-10044-00)**

These City of Norco(City)-led projects consist of approximately 600 feet of 18" reinforced concrete pipe (RCP) for two separate minor improvement projects within Parkridge Avenue and North Drive in the city of Norco. The projects will reduce flooding in the area. The first location is near the intersection of Parkridge Avenue and Kips Corner Road. The proposed storm drain will capture runoff from existing private properties and convey it southeasterly onto Parkridge Avenue. The second location is situated on private property near the intersection of North Drive and California Avenue. The proposed storm drain will capture runoff from multiple residential properties and convey it westerly via proposed 18-inch RCP storm drain to an existing catch basin in California Avenue. Also proposed is an alternate design utilizing 18-inch RCP storm drain and an under-sidewalk drain to convey runoff onto North Drive. The City of

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Norco will be responsible for operation and maintenance of both facilities. This project is funded by the District.

The Cooperative Agreement between the District and the City was executed in June 2024. The improvement plans are 90% complete with construction expected to begin in Fiscal Year 2024-2025.

**Corona Storm Drain Catch Basin Retrofit (2-6-10045-00)**

The City of Corona (City)-led project will install 1,200 trash capture devices inside catch basins in a multi-year duration with a projected completion year of 2030. The project is to comply with the Santa Ana Regional Water Quality Control Board's (Board) Trash Provisions order in addressing the impacts of trash on surface waters. The City is working with the Board to begin installing approved trash capture devices in catch basins located in high density areas citywide. The City will be responsible for operation and maintenance of the facilities. This project is funded as a 50/50 cost share between the District and the City.

The District is working on the Cooperative Funding Agreement with the City.

**Corona South Victoria Avenue Storm Drain (2-6-10046-00)**

This is a City of Corona (City)-led project to reduce flooding within Victoria Avenue. The project consists of approximately 1,900 feet of 36-inch diameter reinforced concrete pipe proposed to collect and convey runoff from Seventh Street toward an existing culvert crossing the 91 Freeway. The City of Corona will be responsible for operation and maintenance of the facility. This project is funded by the District.

The District is working on the Cooperative Funding Agreement with the City. Design is expected to start in winter 2024.

**Corona Drains Line 9A (2-6-10047-00)**

This is a City of Corona (City)-led project to construct a master planned storm drain to provide flood protection to businesses and residences along Magnolia Avenue. The project consists of approximately 3,000 feet of 24-inch to 33-inch diameter underground storm drain. The project will collect runoff at Kellogg Avenue and convey it to the existing City-owned storm drain in Magnolia Avenue ending at Mt. Wilson. The City of Corona will be responsible for operation and maintenance of the facility. This project is funded by the District.

The Cooperative Agreement between the District and the City was executed in July 2024. Design is expected to start in Winter 2024.

**Norco Citation Drive Storm Drain (2-6-10051-00)**

This is a City of Norco (City)-led project to reduce street and community flooding. It consists of 200 feet of 24-inch diameter storm drain pipe to collect water from a low point on Citation Drive and convey it north to the existing District Norco Master Drainage Plan Line S-5 storm drain. The City will be responsible for operation and maintenance of the facility. This project is funded by the District.

The Cooperative Agreement between the District and the City was executed in June 2024. The improvement plans are 60% complete.

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### **Norco Lateral S-1C Extension (2-6-10052-00)**

This is a City of Norco (City)-led project to place 1,300 feet of 30-inch reinforced concrete pipe within Hillside Avenue to collect flows and drain them north into the existing District Norco Master Drainage Plan Line S-1 storm drain located in Third Street. The City of Norco will be responsible for operation and maintenance of the facility. This project is funded by the District.

The Cooperative Agreement between the District and the City was executed in June 2024. The improvement plans are 60% complete.

### **Norco Lateral S-5E (2-6-10053-00)**

This is a City of Norco (City)-led project to reduce street and community flooding. The City is exploring two options on Hillside Avenue. Option 1 consists of 1,100 feet of 24-inch to 36-inch diameter reinforced concrete pipe within private property to collect flows and convey them westerly to Norco Master Drainage Plan Line S-5. Option 2 consists of 1,110 feet of 24-inch to 36-inch diameter reinforced concrete pipe within Hillside Avenue to collect flows and convey them southerly to Norco Master Drainage Plan Line S-1. The City will be responsible for operation and maintenance of the facility. This project is funded by the District.

The Cooperative Agreement between the District and the City was executed in June 2024. The improvement plans are 60% complete.

### **Coldwater Canyon Recharge Basin Study (2-6-10055-00)**

This is a City of Corona-led project to reevaluate the runoff from Coldwater Canyon and Mayhew Canyon and methods to allow some of the water to be recharged into the mining pits during storm events. The Strategic Planning Summary Report, dated January 2017, includes retention basins, a down spout into the Chandler mining pit and other stormwater appurtenances that address flood risk reduction and water conservation. This study would also look at the best approach to protect water quality. This project is funded as a 50/50 cost share between the District and the City of Corona.

The study is expected to begin in Fiscal Year 2024-2025.

### **Heli Hydrant Fire Pro System Phase 2 (2-6-10056-00)**

This is a Jurupa Community Services District (JCSD)-led project to install three 15-foot diameter by 8-foot tall Heli-Hydrant tank systems to provide the California Department of Forestry and Fire Protection (Cal Fire) with reliable and accessible water resources during wildfire events. The tank systems will improve Cal Fire pilots' response time to eradicate fires, reducing the risk of loss of life and property to the surrounding communities within Riverside County, including the associated the post-fire flood risk. The decreased response times will also reduce the amount of water used during wildfire events and the burn area, resulting in water conservation. JCSD will be responsible for operation and maintenance of the facility. This project is funded as a cost share between JCSD and the District.

The Cooperative Agreement between the District and JCSD was executed in September 2024 and construction to follow in fall 2024.

### **Norco MDP Line N-3, Stage 1 (2-8-00086-01)**

The City of Norco (City)-led project proposes approximately 2,100 feet of reinforced concrete pipe, ranging in pipe diameter from 36 inches to 66 inches. The storm drain alignment is within 5<sup>th</sup> Street and conveys flows from Aryana Avenue to North Norco Channel, located on the east side of Interstate 15.



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This project will alleviate flooding within the streets and surrounding area. The District and the City will share operation and maintenance responsibilities based on storm drain sizing. This project is funded by the District.

The District executed the Cooperative Funding Agreement with the City of Norco in July 2022. The City is currently reviewing the improvement plans.

**Santa Ana River - Below Prado Dam [Corps Project] (2-8-00105-00)**

This U.S. Army Corps of Engineers (Corps)-led project has constructed streambank improvements necessary due to the planned increased discharge capacity from the Prado Dam. Construction of Reach 9, Phases 2A and 2B, Mobile Home Levee and BNSF projects are completed but have not been turned over to the District for operation and maintenance. This project is funded as a cost share via Local Cooperative Agreement between the Corps, Riverside County, Orange County, San Bernardino County and Riverside County Transportation Commission. District costs are related to right of way acquisition and utility relocation for the BNSF Bridge Protection project.

The District and Corps are working together toward the completion of the Operations, Maintenance, Repair, Replacement and Rehabilitation Manuals to complete the transfer of the projects for long-term operation and maintenance.

**South Norco Channel, Stage 2 (2-8-00150-02)**

This City of Norco-led project will replace 5,800 feet of existing undersized channel and will convey storm flows from Hamner Avenue to an existing reinforced concrete box (RCB) south of Parkridge Avenue. Proposed facilities will include varying sizes of rectangular channel and RCB. The improvements will provide 100-year level of flood protection and remove residences and businesses adjacent to the channel out of the Federal Emergency Management Agency mapped floodplain. The District will be responsible for operation and maintenance of the channel.

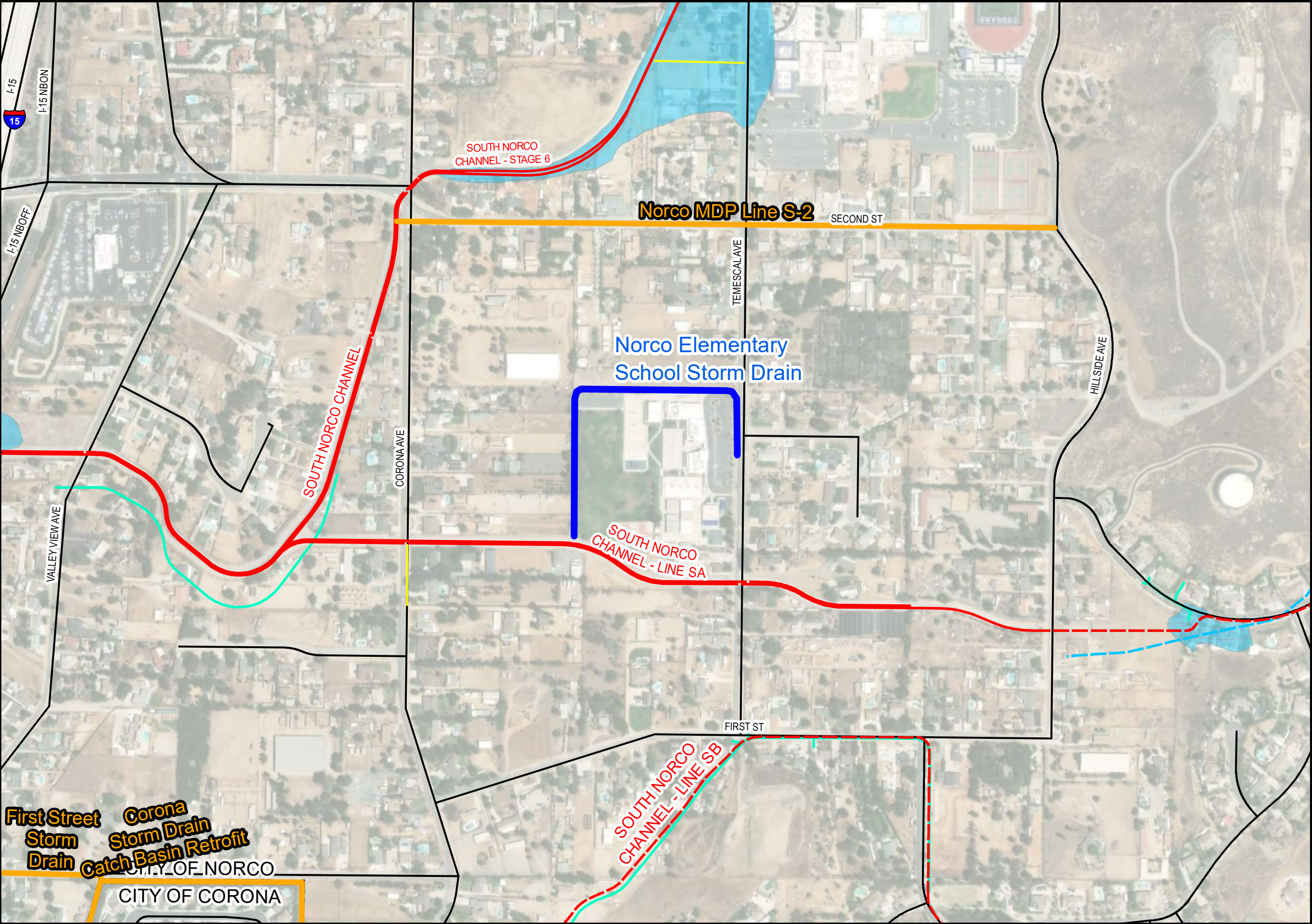
This project is funded by the District. The City of Norco is working on preparing final plans, right of way acquisition and environmental permitting.

**West Norco Channel Extension, Stage 2 (2-8-00160-02)**

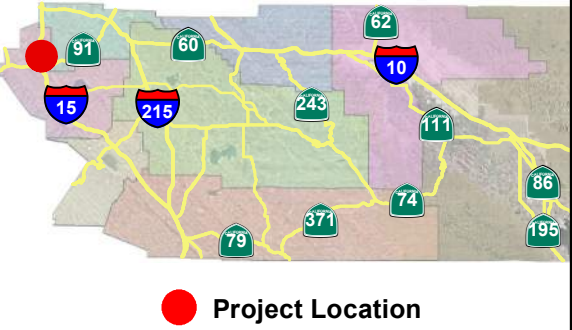
The City of Norco-led project consists of approximately 1,300 feet of 8-feet by 4-feet reinforced concrete box between Parkridge Avenue and River Road. The proposed project extends the West Norco Channel south to an existing 90-inch reinforced concrete pipe privately owned storm drain. The project also proposes to replace the existing dual 57-inch corrugated metal pipe upstream. This project could potentially remove properties from a Federal Emergency Management Agency mapped floodplain.

Upon reviewing the project improvement limits in detail, the facility has an undersized downstream outlet. We are currently assessing alternative solutions to address this matter as increasing downstream pipe to adequate size is not feasible as it is under existing residential tracts in the city of Corona.





VICINITY MAP

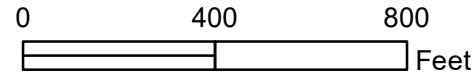


Description

This is a City of Norco-led project to reduce street and community flooding. It consists of 1,500 feet of 24-inch to 36-inch storm drain pipe to collect flows along Temescal Avenue and Norco Elementary School and convey them to South Norco Channel Line SA. The City of Norco will be responsible for operation and maintenance of the facility.

Legend

- Norco Elementary School Storm Drain
- Existing Above Ground District Facilities
- Existing Below Ground District Facilities
- Other Budgeted CIP Facilities
- Un-budgeted District Facilities
- City Facilities
- Natural Flowlines
- City Boundary
- FEMA Floodplain

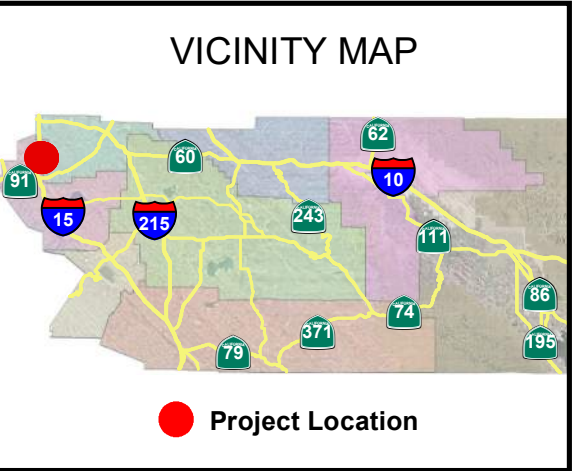
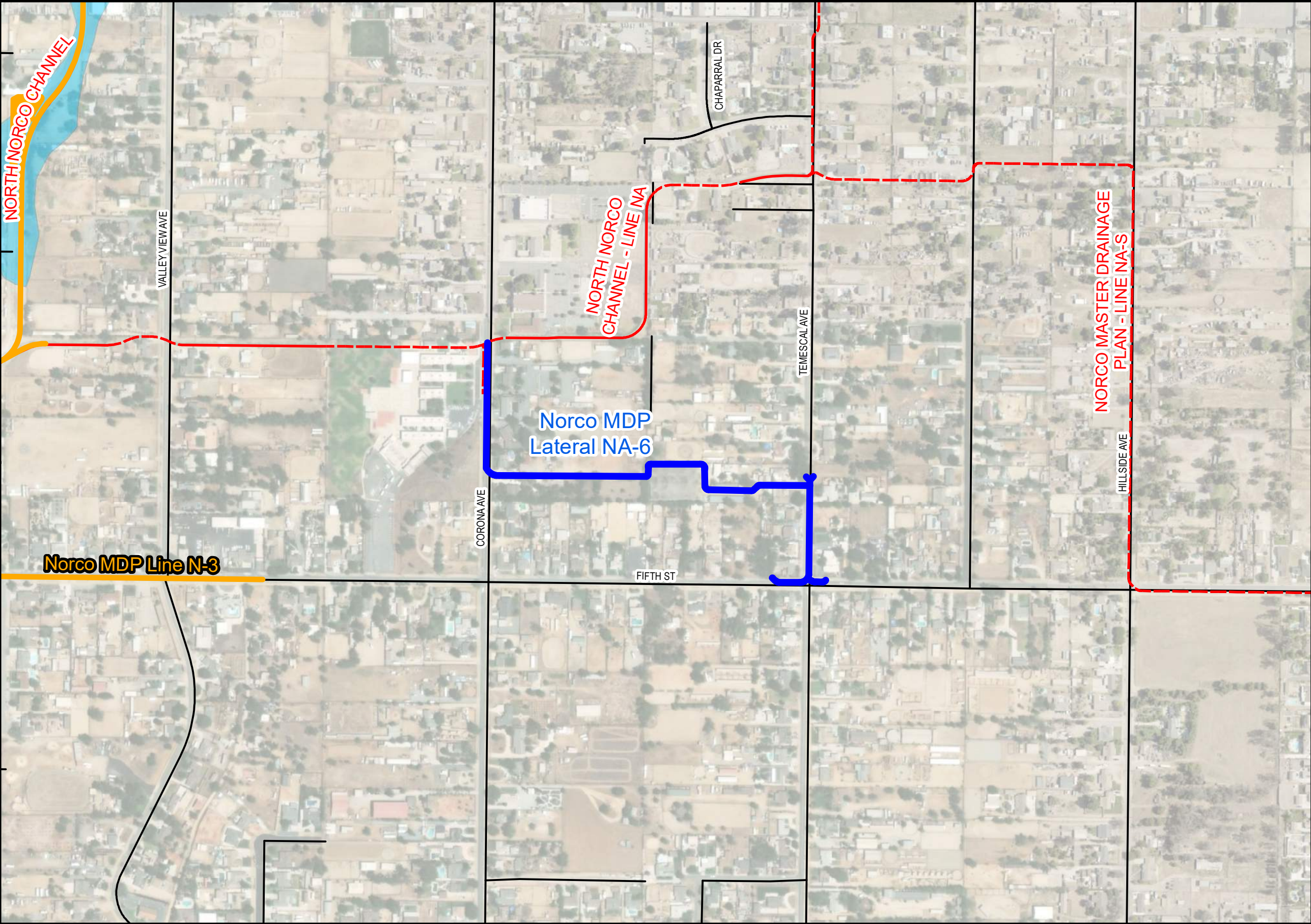


RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
**Norco Elementary School Storm Drain**  
Supervisorial District 2



Project No.	2-6-10048-00
Engineer	T. Hanson
Date Created	6/22/2023

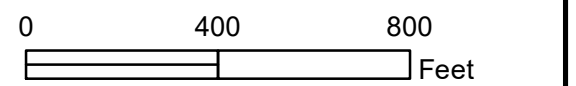




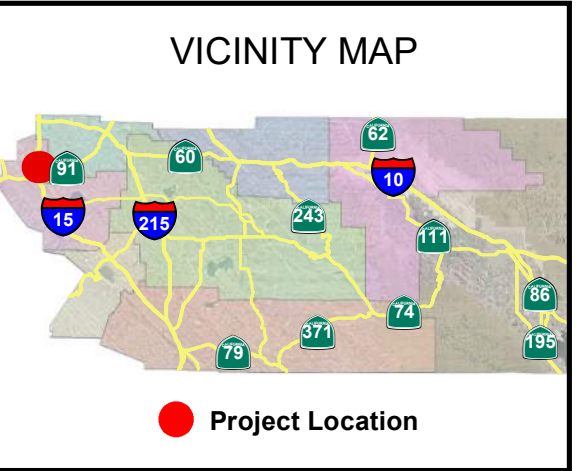
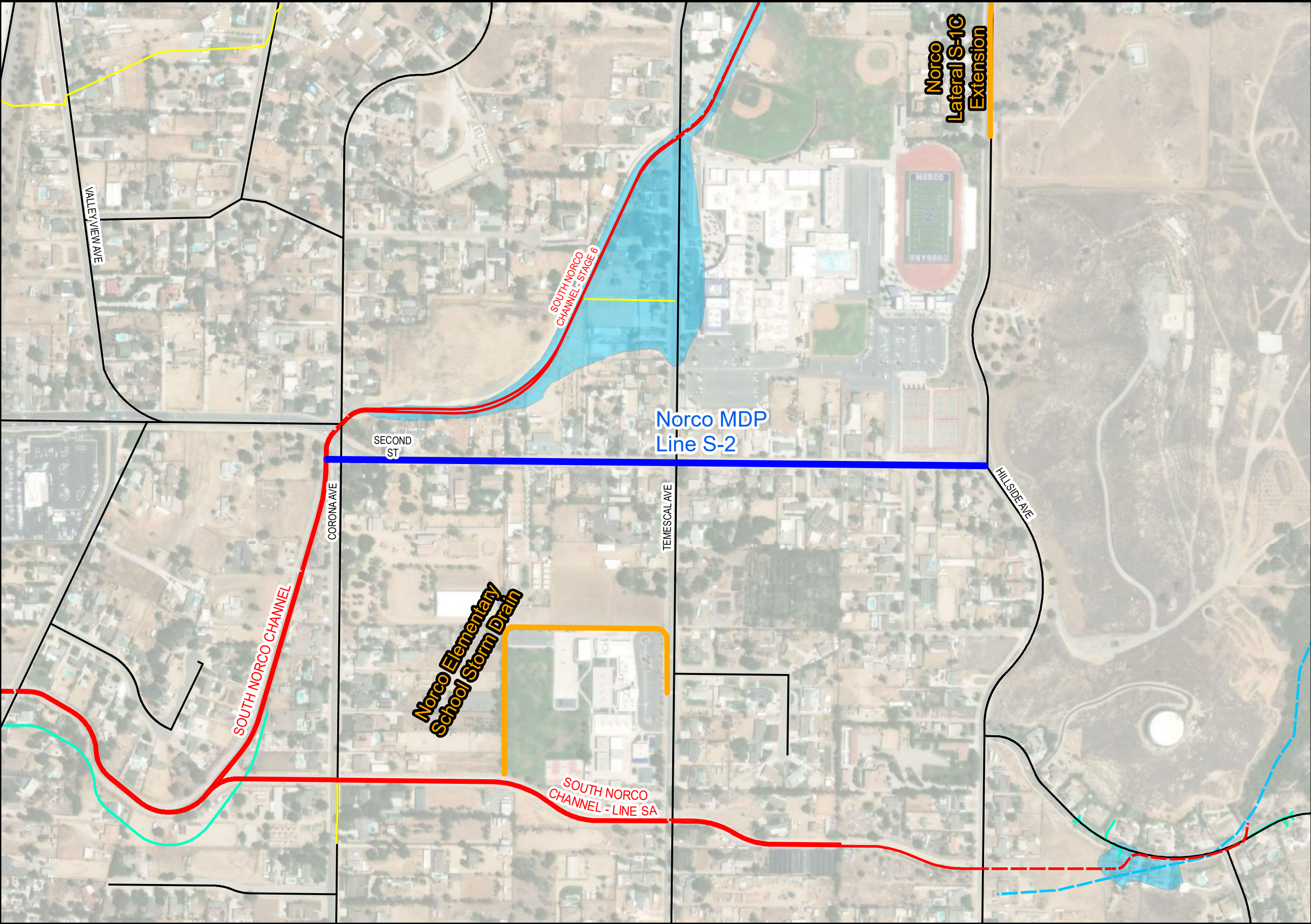
**Description**

This is a City of Norco-led project to install approximately 2,700 feet of 42-inch to 48-inch reinforce concrete pipe in Corona Avenue, 5th Street and Temescal Avenue to alleviate flooding on the private properties between Temescal Avenue and Corona Avenue. Flows will be conveyed from Fifth Street and outlet into existing North Norco Channel - Line NA. The City of Norco will be responsible for operation and maintenance of the facility.

- Legend**
- Norco MDP Lateral NA-6
  - Existing Above Ground District Facilities
  - Existing Below Ground District Facilities
  - Other Budgeted CIP Facilities
  - FEMA Floodplain

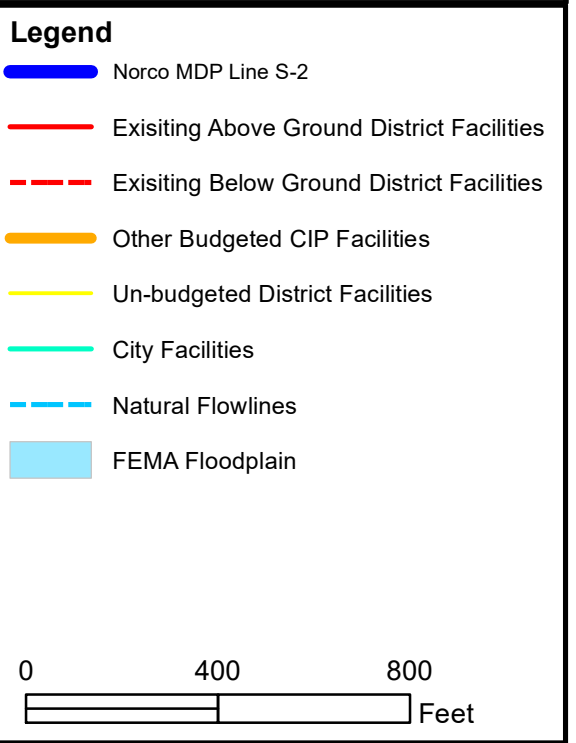




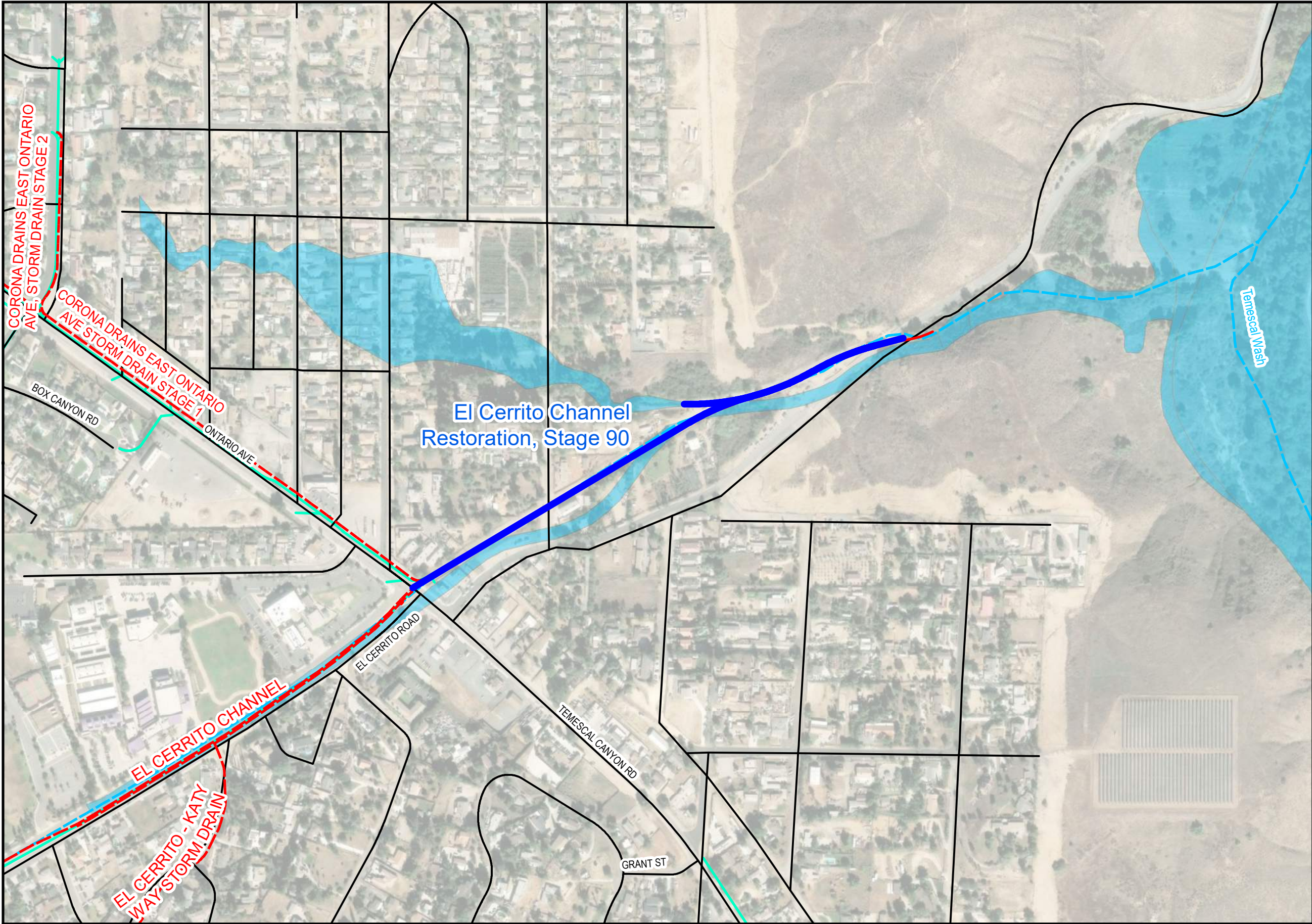


### Description

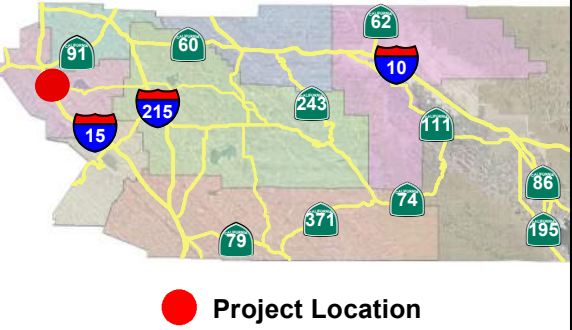
This City of Norco-led project to provide flood protection to properties along Second Street. The project consists of approximately 2,700 feet of reinforced concrete pipe (18-inch to 40-inch) along Hillside Avenue and conveys flows to the existing South Norco Channel, west of Corona Avenue. The City of Norco will be responsible for operation and maintenance of the facility.







VICINITY MAP

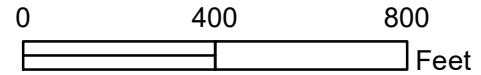


Description

This was a District-led project that replaced approximately 2,300 feet of existing concrete trapezoidal channel with higher capacity reinforced concrete box and concrete rectangular channel of varying dimensions. The primary objective was to provide 100-year flow capacity within the proposed facility and remove the existing Federal Emergency Management Agency (FEMA) floodplain. The project collected flows from two existing storm drain systems at the El Cerrito Road-Temescal Canyon Road/Ontario Avenue intersection and conveyed the water northeasterly to Temescal Creek. The District is responsible for operation and maintenance of the project improvements.

Legend

- El Cerrito Channel Restoration, Stage 90
- Existing Above Ground District Facilities
- Existing Below Ground District Facilities
- County Facilities
- Natural Flowlines
- FEMA Floodplain

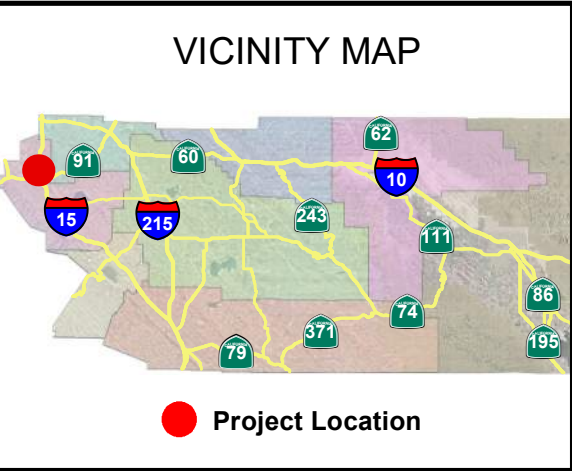
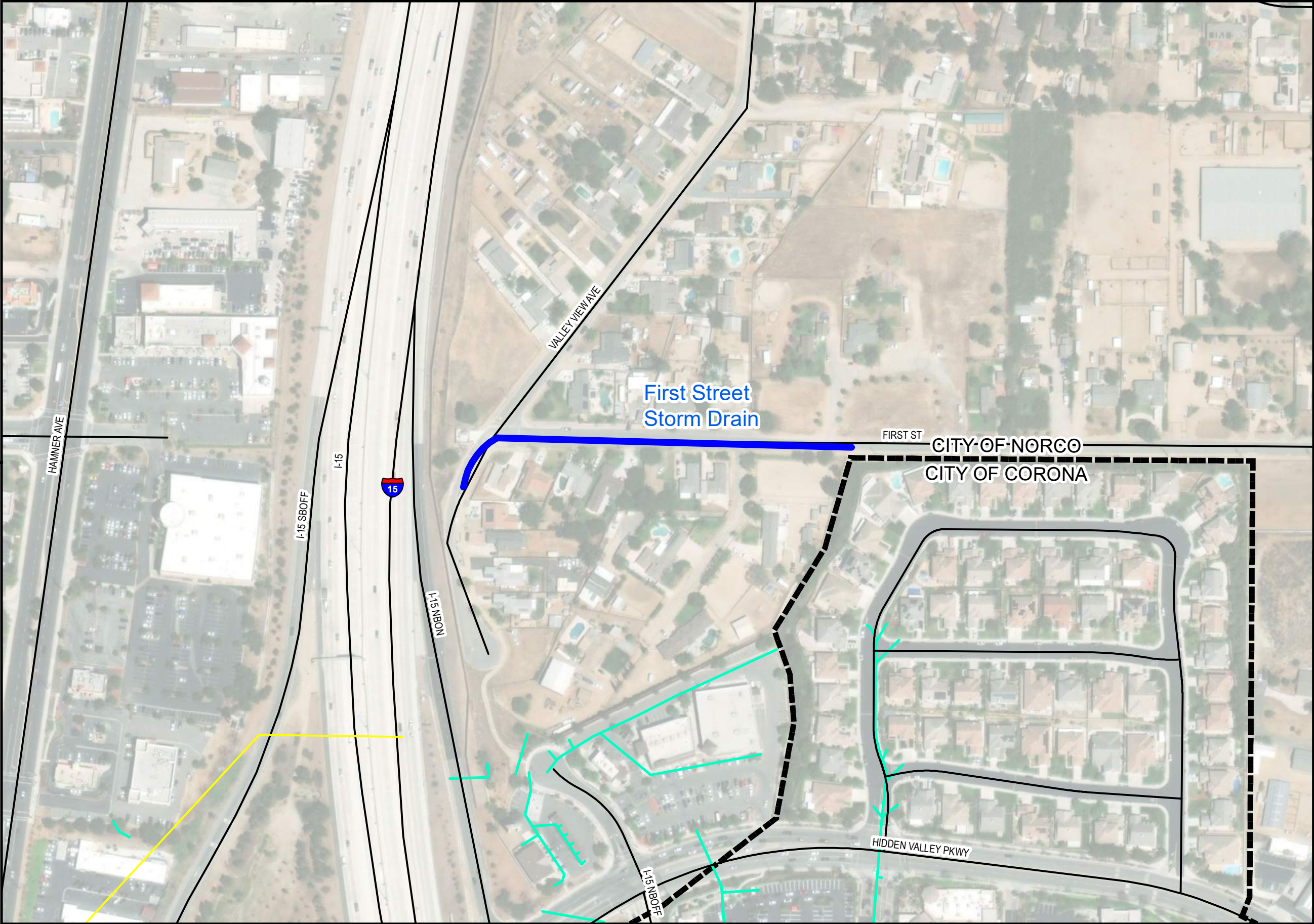


RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
**El Cerrito Channel Restoration, Stage 90**  
Supervisory District 2



Project No.	2-8-00110-90
Engineer	A.Chan
Date Created	10/8/2024





**Description**

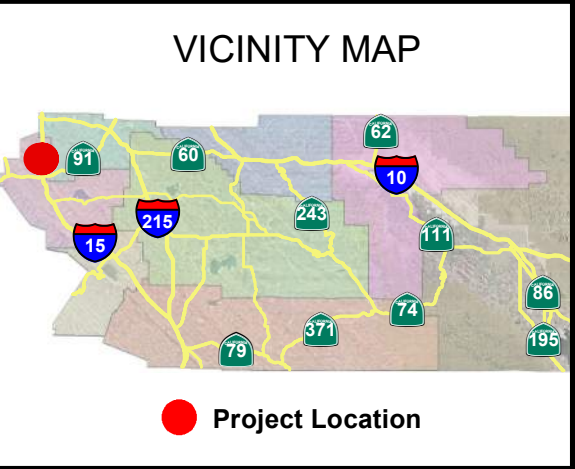
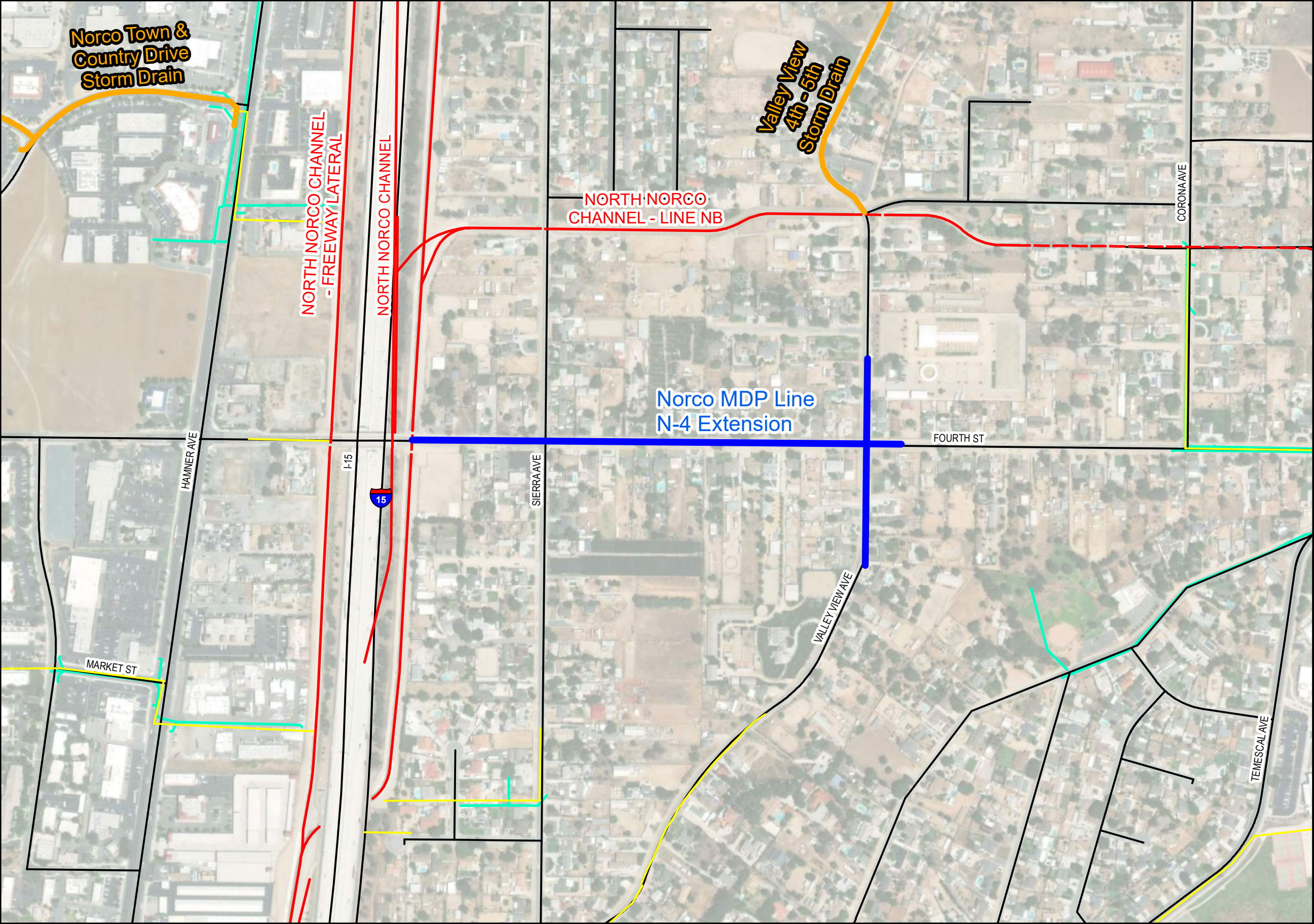
This is a City of Norco-led project to reduce street and community flooding. It consists of 900 feet of 30-inch diameter storm drain to collect flows within First Street and convey them west into an existing Interstate 15 Caltrans culvert. The City of Norco will be responsible for operation and maintenance of the facility.

**Legend**

- First Street Storm Drain
- Un-budgeted District Facilities
- City Facilities
- City Boundary

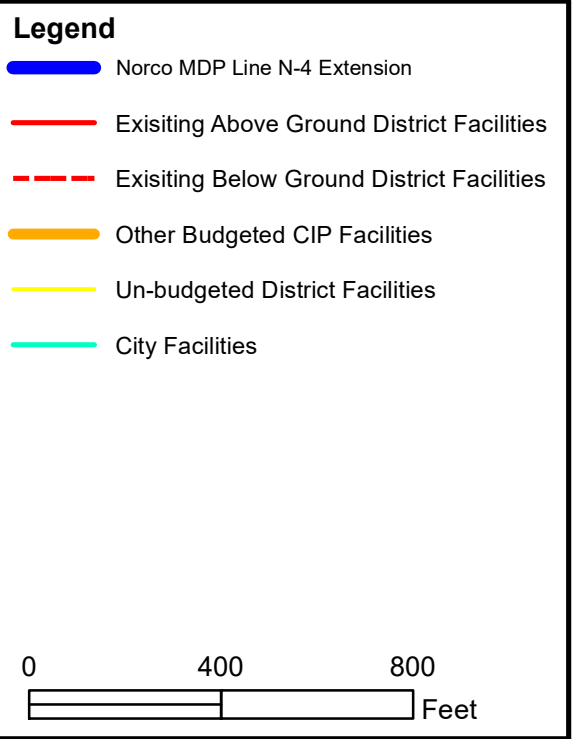
0 200 400 Feet



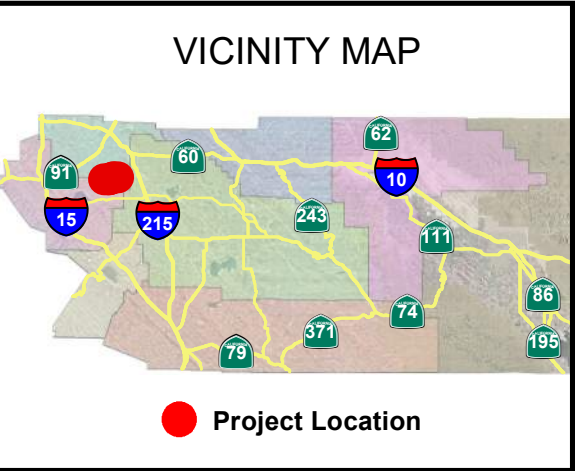
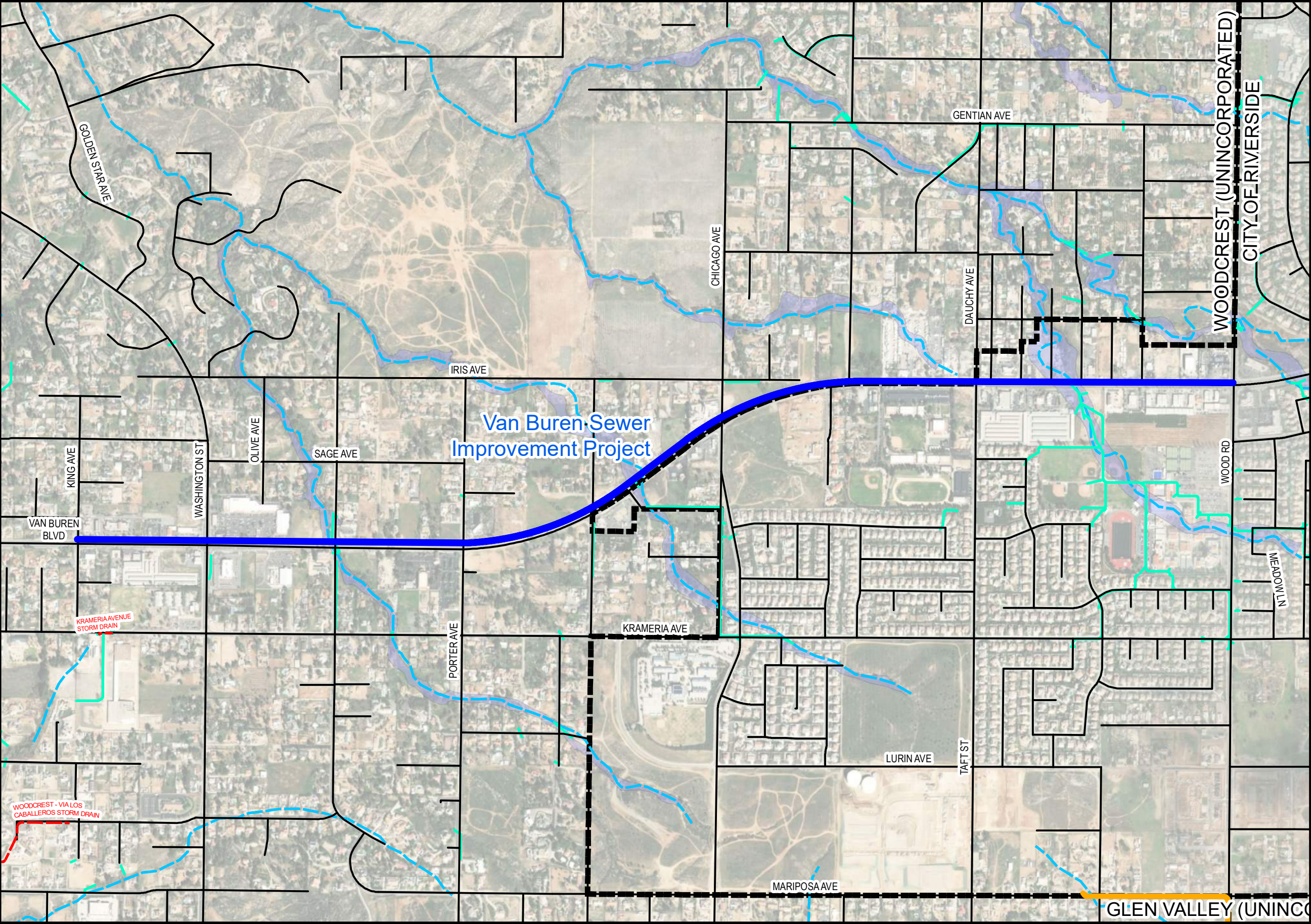


**Description**

This is a City of Norco-led project to construct 2,900 feet of storm drain ranging from 24 inches to 36 inches in diameter. The project will collect water along Valley View Avenue and 4th Street to convey it westerly toward Interstate 15, outletting into the existing North Norco Channel. This project will reduce street and community flooding along 4th Street and Valley View Avenue. The City of Norco will be responsible for operation and maintenance of the facility.







### Description

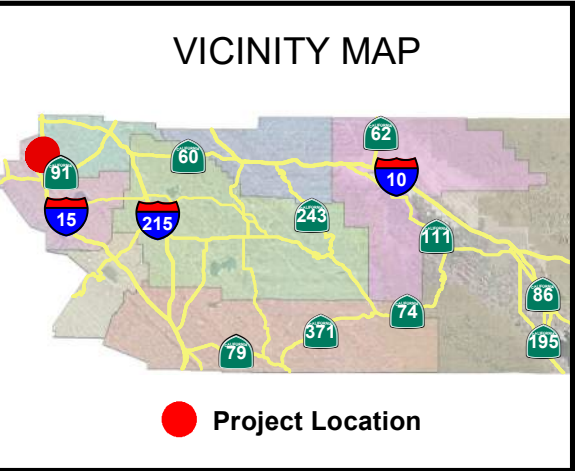
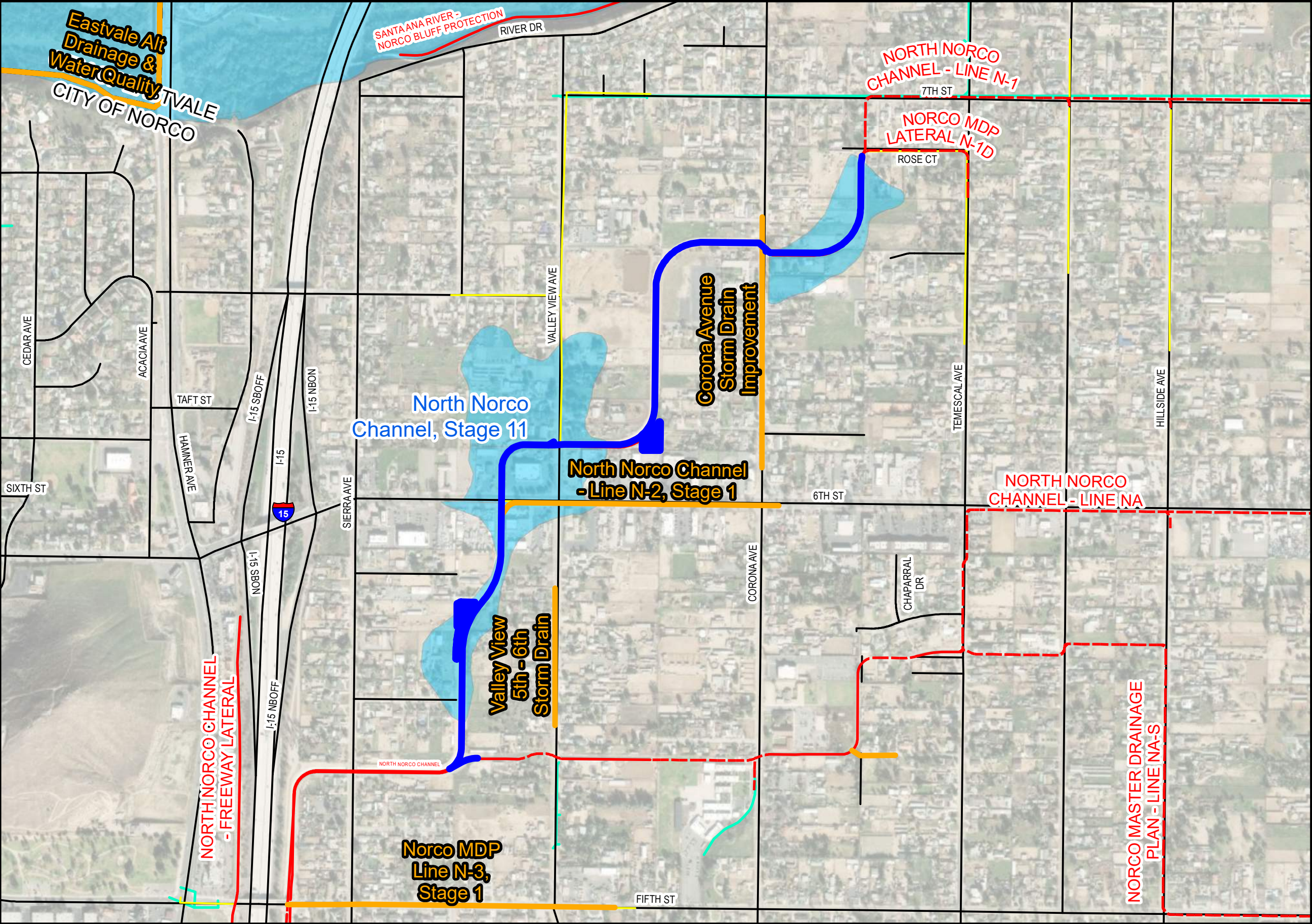
This is a District contribution to fund a joint project between the Riverside County Office of Economic Development and the City of Riverside Public Utilities (RPU) to extend the existing RPU sanitary sewer line within Van Buren Boulevard from Wood Road two miles westerly to King Avenue, including a sewer lift station on the northeast corner of Krameria Avenue and Washington Street. This project is anticipated to benefit surface water quality in the surrounding streams and rivers by bringing sewer service to a community that is currently on septic systems in a watershed that is known to have concerns about bacteria leaching into surface water runoff. RPU will be responsible for operation and maintenance of the facility.

### Legend

- Van Buren Sewer Improvement Project
- Existing Below Ground District Facilities
- Budgeted CIP Facilities
- City Facilities
- Natural Flowlines
- City Boundary
- Flood Hazard Area

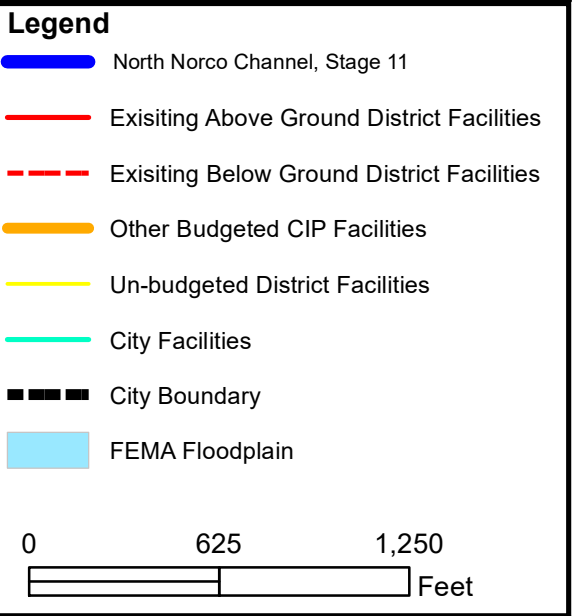
0 1,000 2,000 Feet



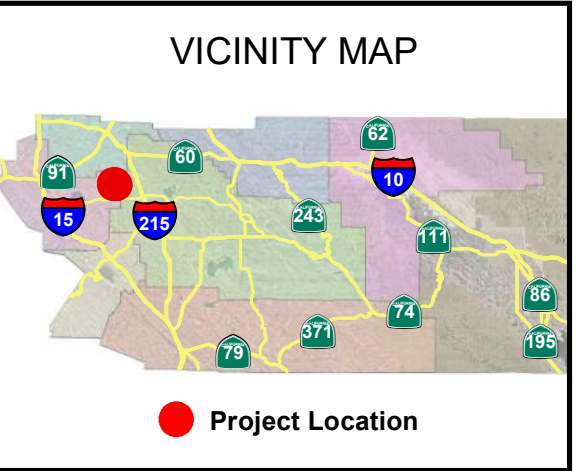
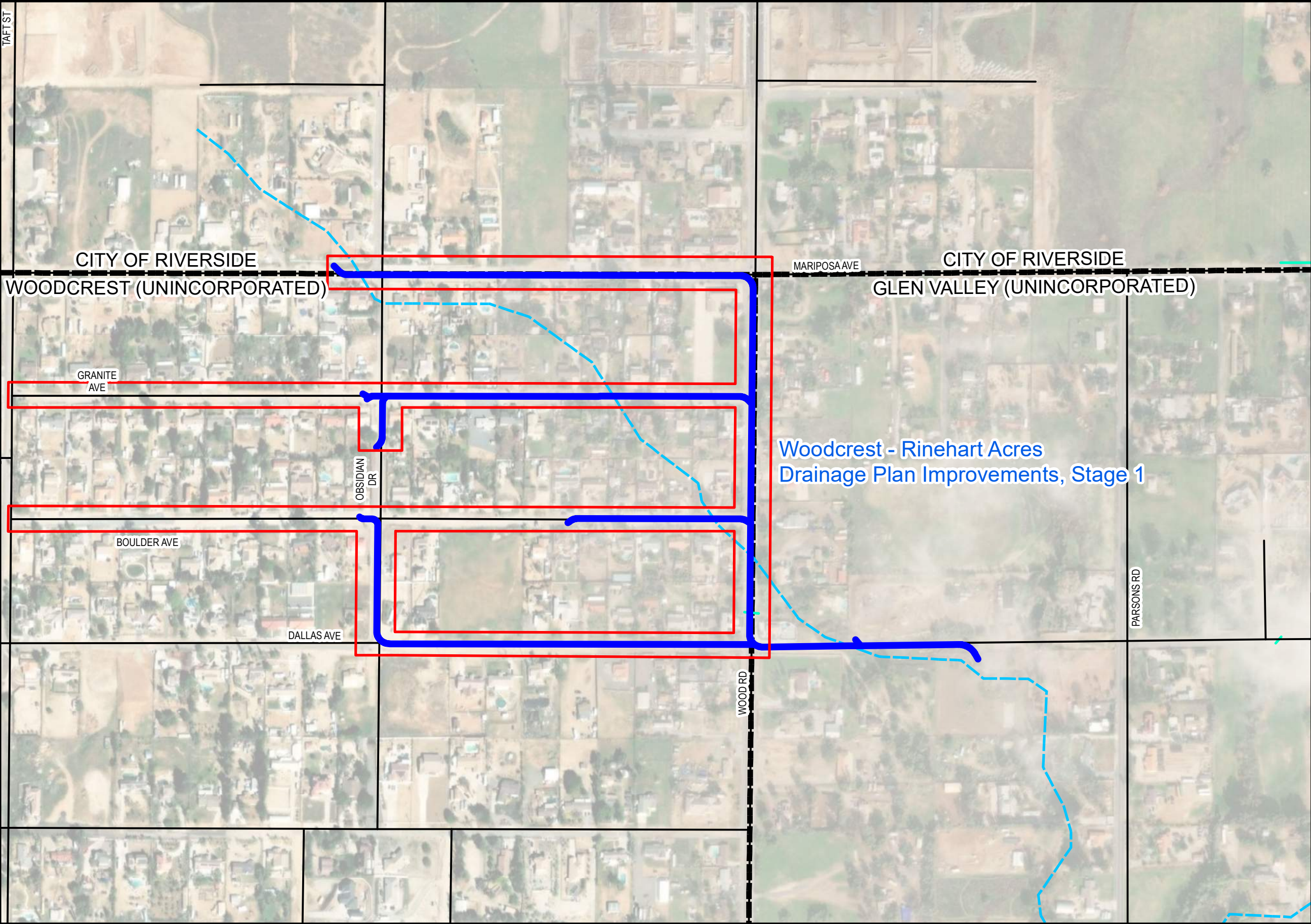


### Description

This District-led project will replace an interim existing earthen channel with a higher capacity concrete-lined channel that can safely contain and convey the 100-year flow, thereby significantly reducing the floodplain along the channel. The mainline will include approximately 5,900 feet of trapezoidal and rectangular channel and will replace culverts under three street crossings (Corona Avenue, Valley View Avenue and Sixth Street). Stage 11 collects flows from the existing North Norco Channel Line N-1 storm drain at the westerly end of Rose Court and conveys them southerly to the existing confluence with North Norco Channel Line NA northwest of Valley View Avenue and Fifth Street. The project will also construct two water quality basins to reduce runoff pollutants from adjacent land. The District is to include sewer and waterline utility relocations in the construction contract on behalf of the City of Norco. The District will be responsible for operation and maintenance of the storm drain improvements.

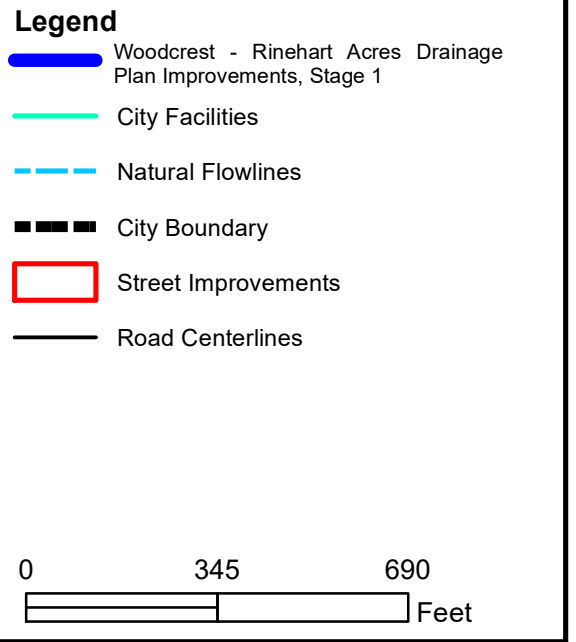




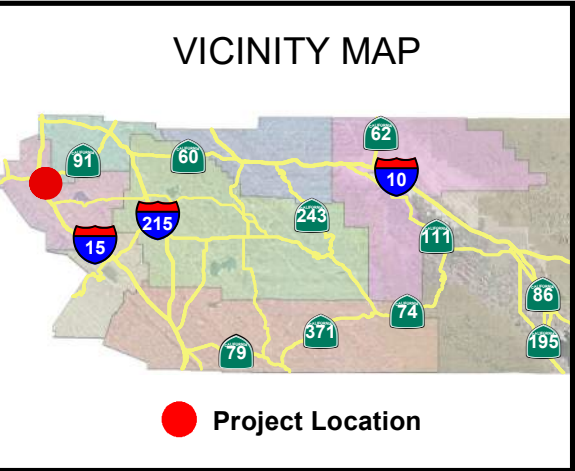
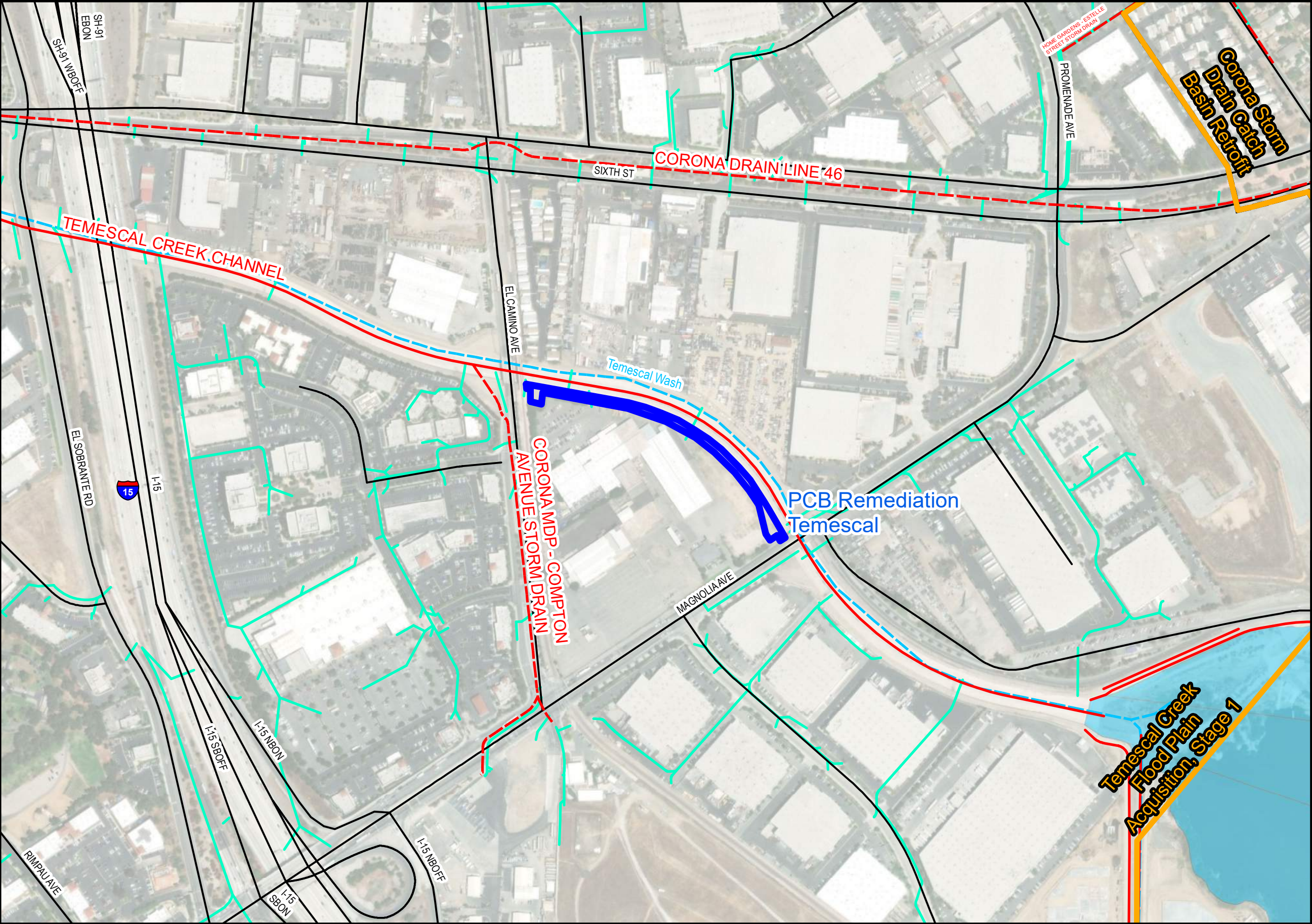


**Description**

This is a District-led project to reduce street and community flooding in the Woodcrest Rinehart Acres subdivision. The project consists of 10,250 feet of drainage-related street improvements and 8,000 feet of underground storm drain system ranging in diameter from 18-inches to 66-inches to collect flows from Mariposa Avenue to Dallas Avenue and from Obsidian Drive to Woods Road. The District will be responsible for operation and maintenance of the mainline storm drain facility, and the County of Riverside will maintain the street improvements and drainage inlets.

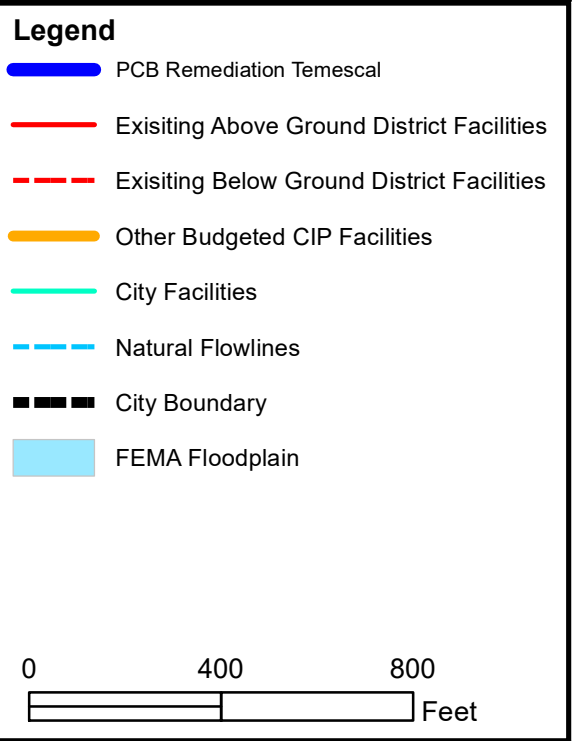




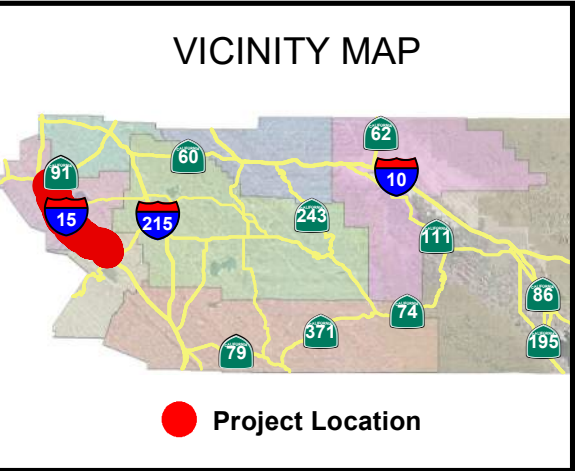
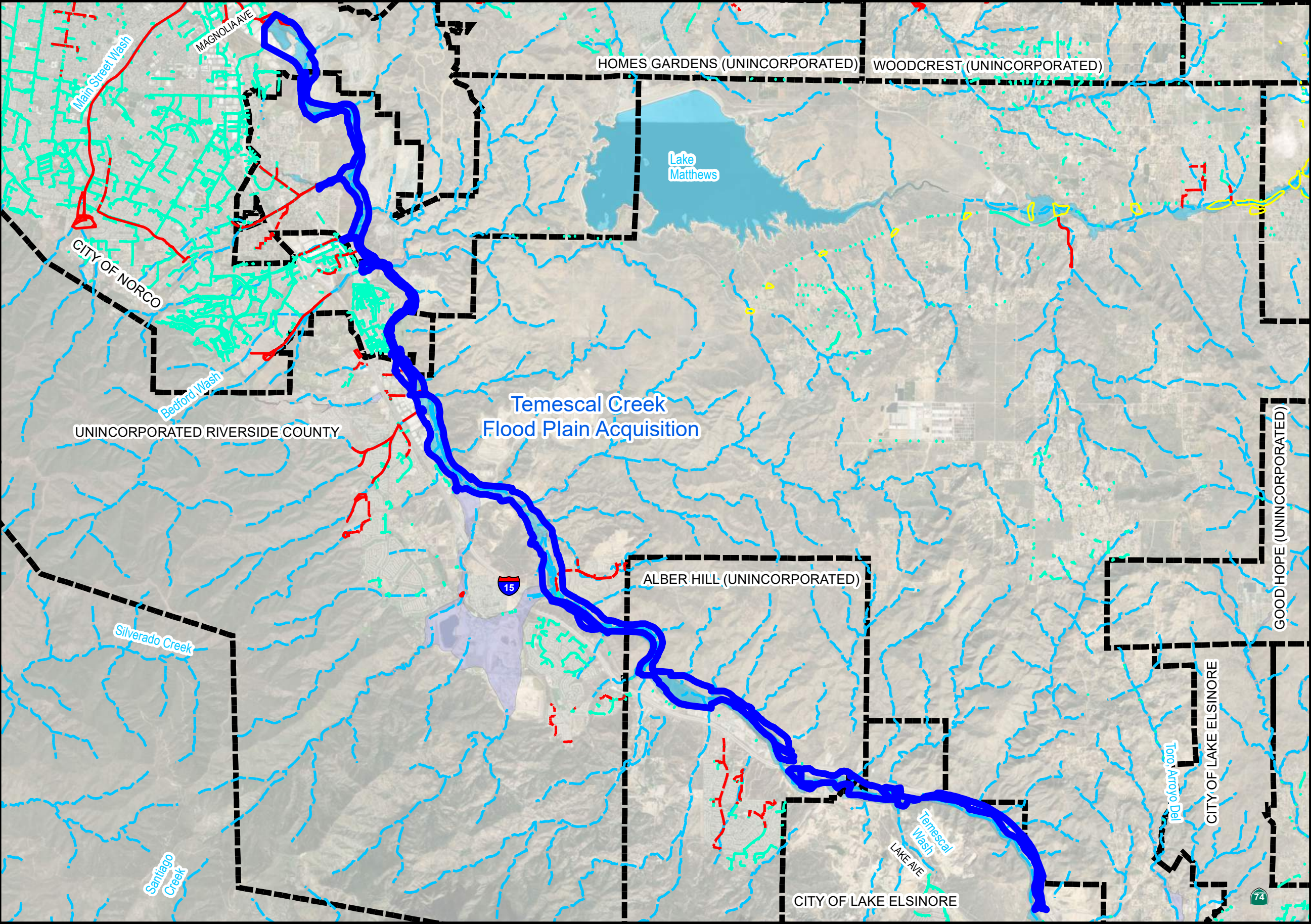


### Description

This is a District-led project to remediate polychlorinated biphenyls (PCBs) found in the District's existing Temescal Creek Channel access road from El Camino Avenue to Magnolia Avenue. At the recommendation of the United States Environmental Protection Agency, the project will be capping the contaminated material by placing a 6-inch asphalt cover for 1,270 feet of the southern 28 feet wide access road around Temescal Creek Channel. This will help to prevent PCBs in the fill from spreading into the adjacent environment and channel.

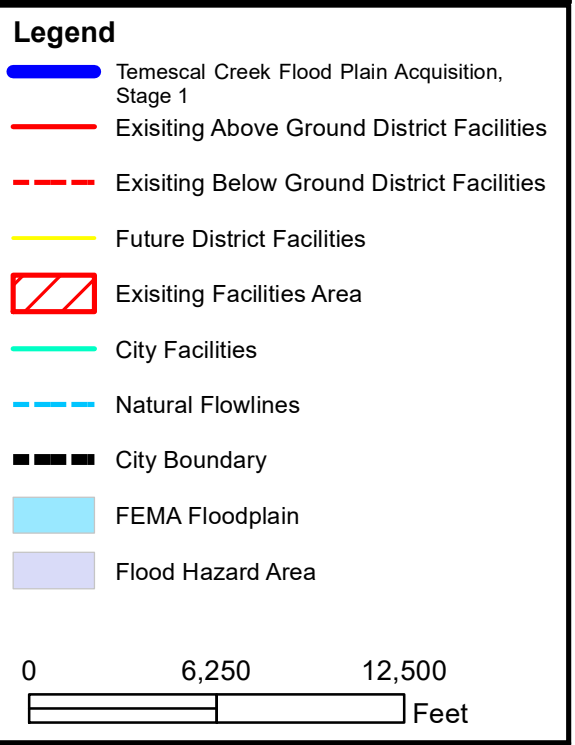




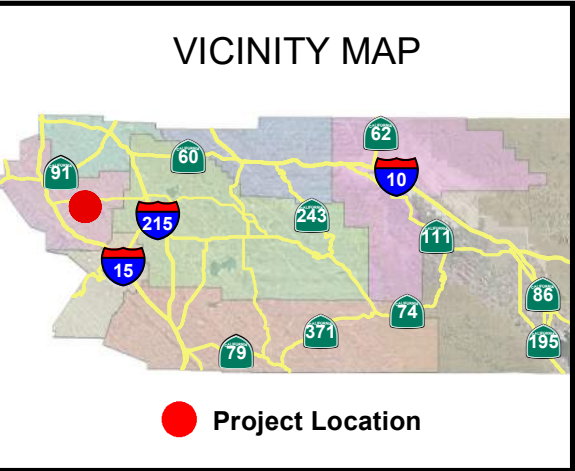
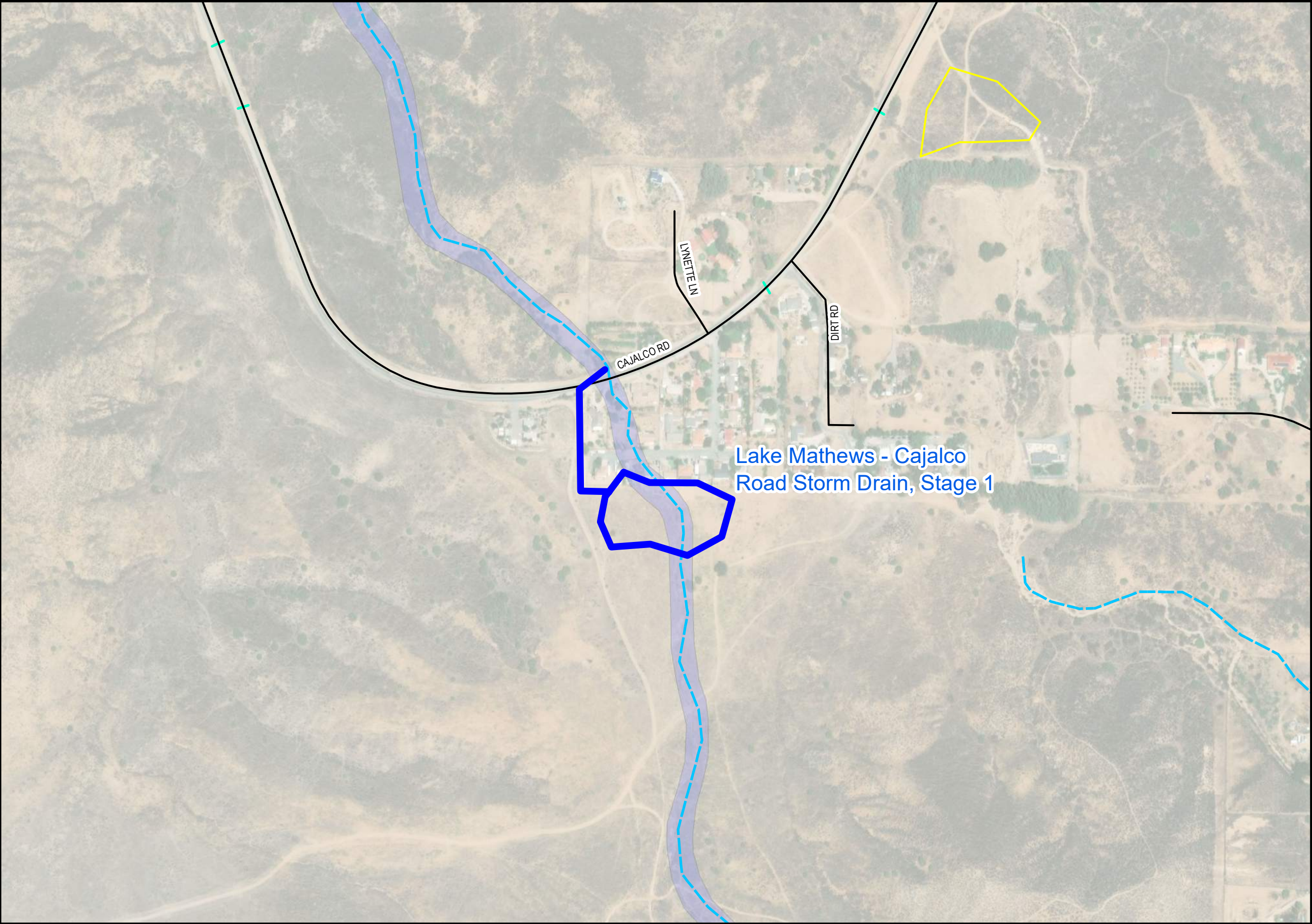


### Description

This is a District-led project to identify and acquire up to 541 acres worth of parcels from willing sellers along the Temescal Canyon Wash that are subject to flood hazards. The approximate limits of the acquisition are between Magnolia Avenue to the north and Lake Street to the south along the Temescal Creek. This is a non-structural flood hazard mitigation program with the potential to preserve or restore the natural habitat, improve water quality, recharge ground water aquifers and/or provide recreational opportunities.







**Description**

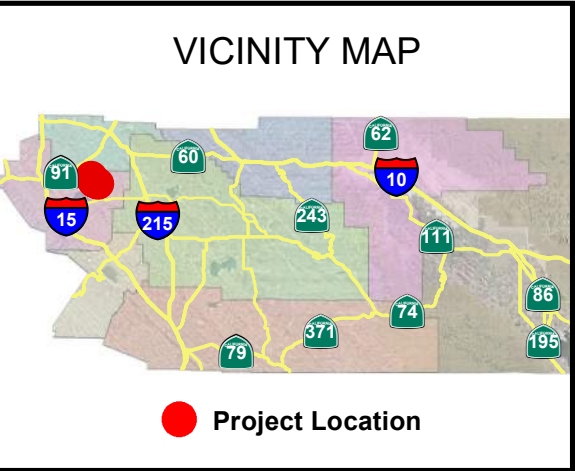
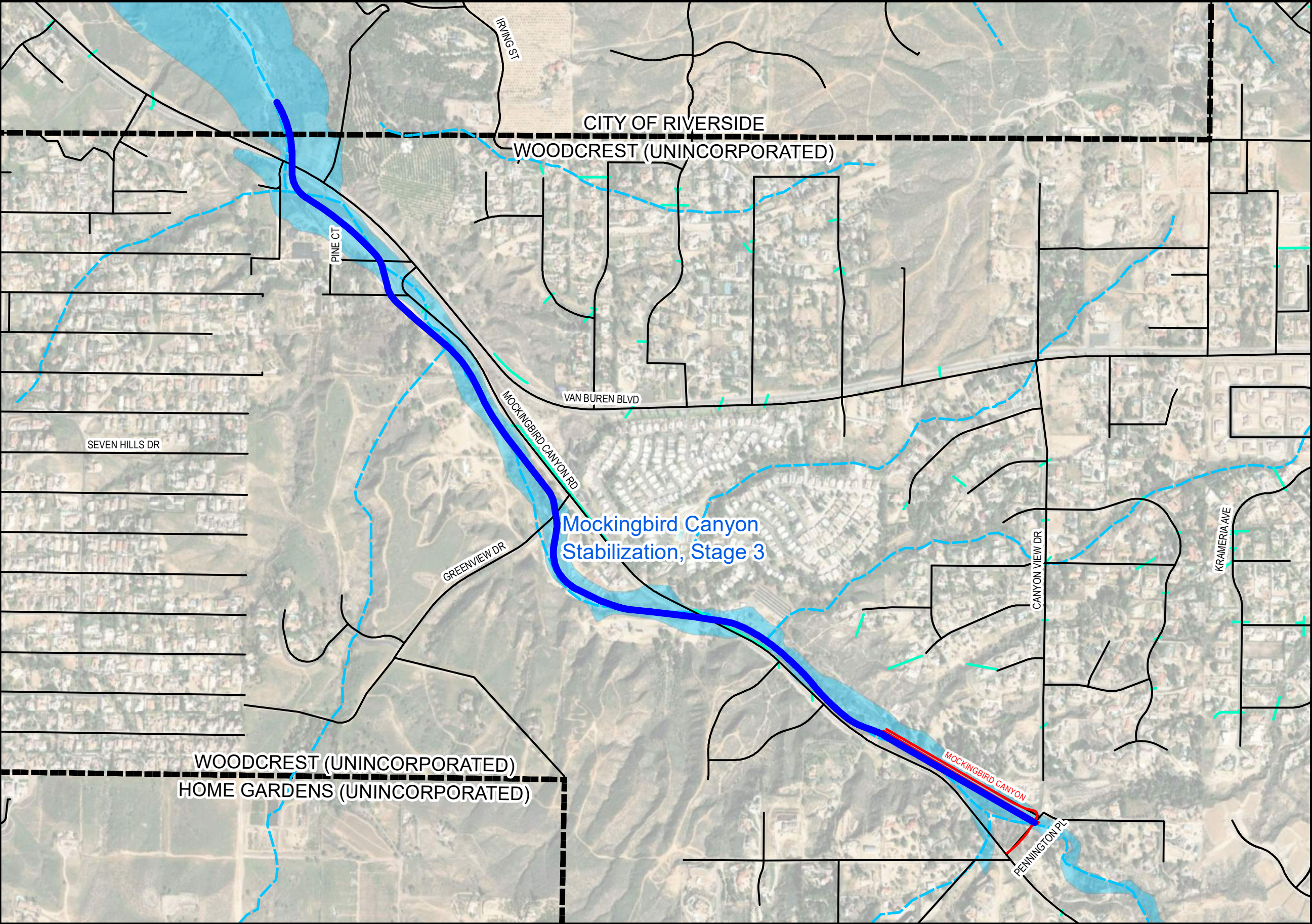
This is a District-led project intended to reduce street and residential flooding near Cajalco Road in the Lake Mathews area. The project was requested by a resident along High Res Way who experiences flooding of their property during storm events.

**Legend**

- Lake Mathews - Cajalco Road Storm Drain, Stage 1
- Un-budgeted District Facilities
- City Facilities
- Natural Flowlines
- Flood Hazard Area

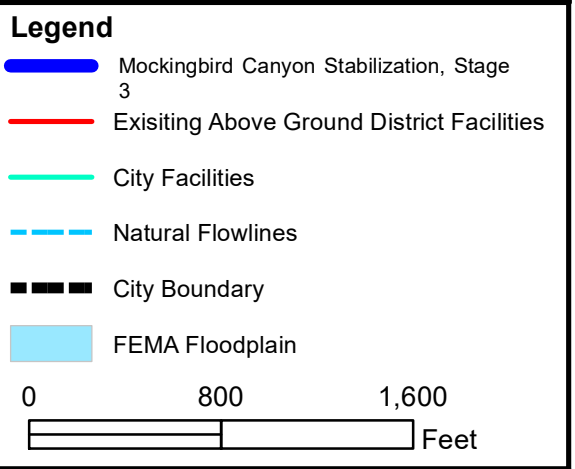
0 400 800 Feet



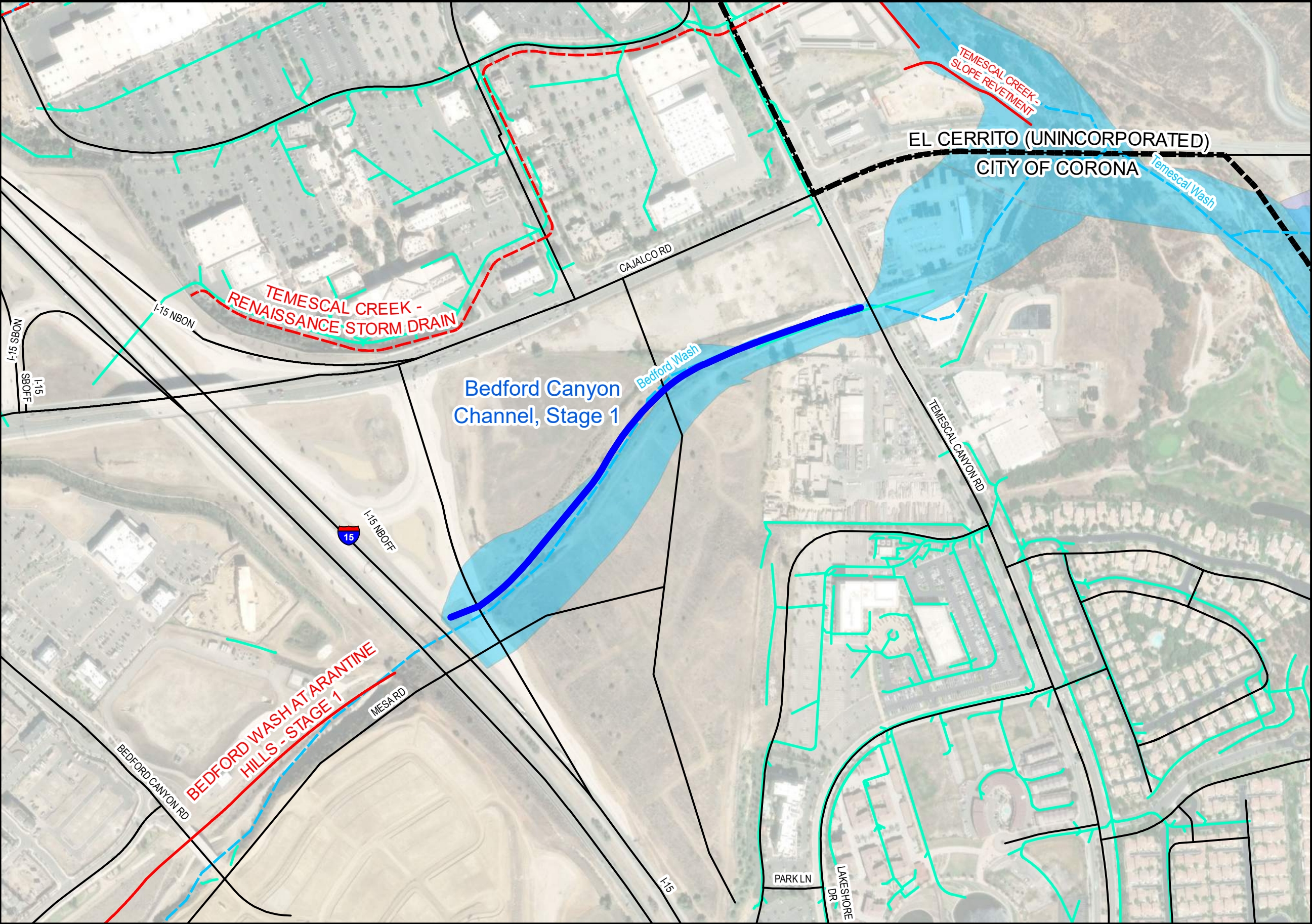


### Description

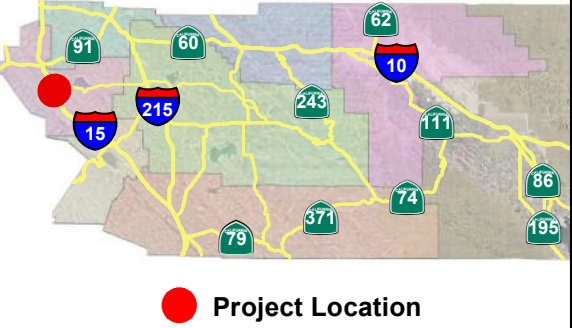
This District-led project contains roughly two miles of improvements along Mockingbird Canyon Wash from Pennington Place bridge to the Van Buren crossing downstream. The primary objective for this project is to stabilize Mockingbird Canyon Wash and reduce sediment transport and erosion that can damage public infrastructure and adjacent residences. The drainage improvements are anticipated to consist of soil bank protection and grade control structures, with a majority of the bottom left earthen and allowed to revegetate naturally. The project also includes two new crossings, one at Greenview Drive and another downstream for additional residential access. The project will also replace the existing Pennington Place bridge as well as provide an opportunity for a future trail system to be established by other entities. The District will be responsible for operation and maintenance of the facility (not including future trails).







VICINITY MAP

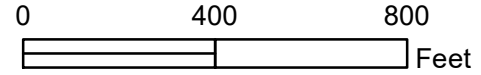


Description

This District-led project proposes to stabilize approximately 2,200 feet of Bedford Canyon Wash, located south of Cajalco Road, between Interstate 15 and Temescal Canyon Road in Corona, California. The primary objective of this project is to safely convey the 100-year storm flows in a stabilized system from Interstate 15 northbound freeway to an existing culvert under Temescal Canyon Road in a manner that reduces erosion and sediment deposition generated in the wash. Additionally, the project will aim to accommodate space for the future Butterfield Overland Trail project (constructed and maintained by others). The District will be responsible for operation and maintenance of the channel.

Legend

- Bedford Canyon Channel, Stage 1
- Existing Above Ground District Facilities
- Existing Below Ground District Facilities
- City Facilities
- Natural Flowlines
- City Boundary
- FEMA Floodplain
- Flood Hazard Area

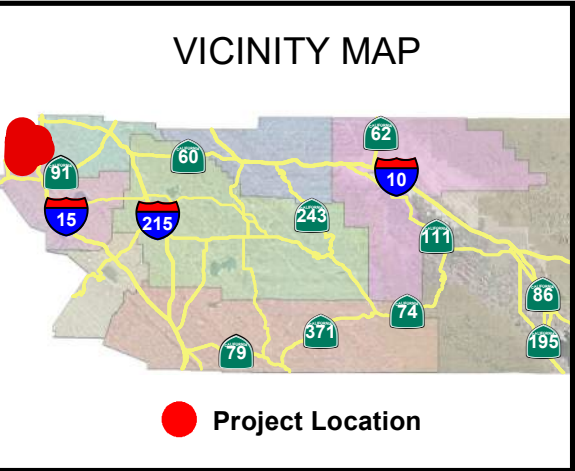
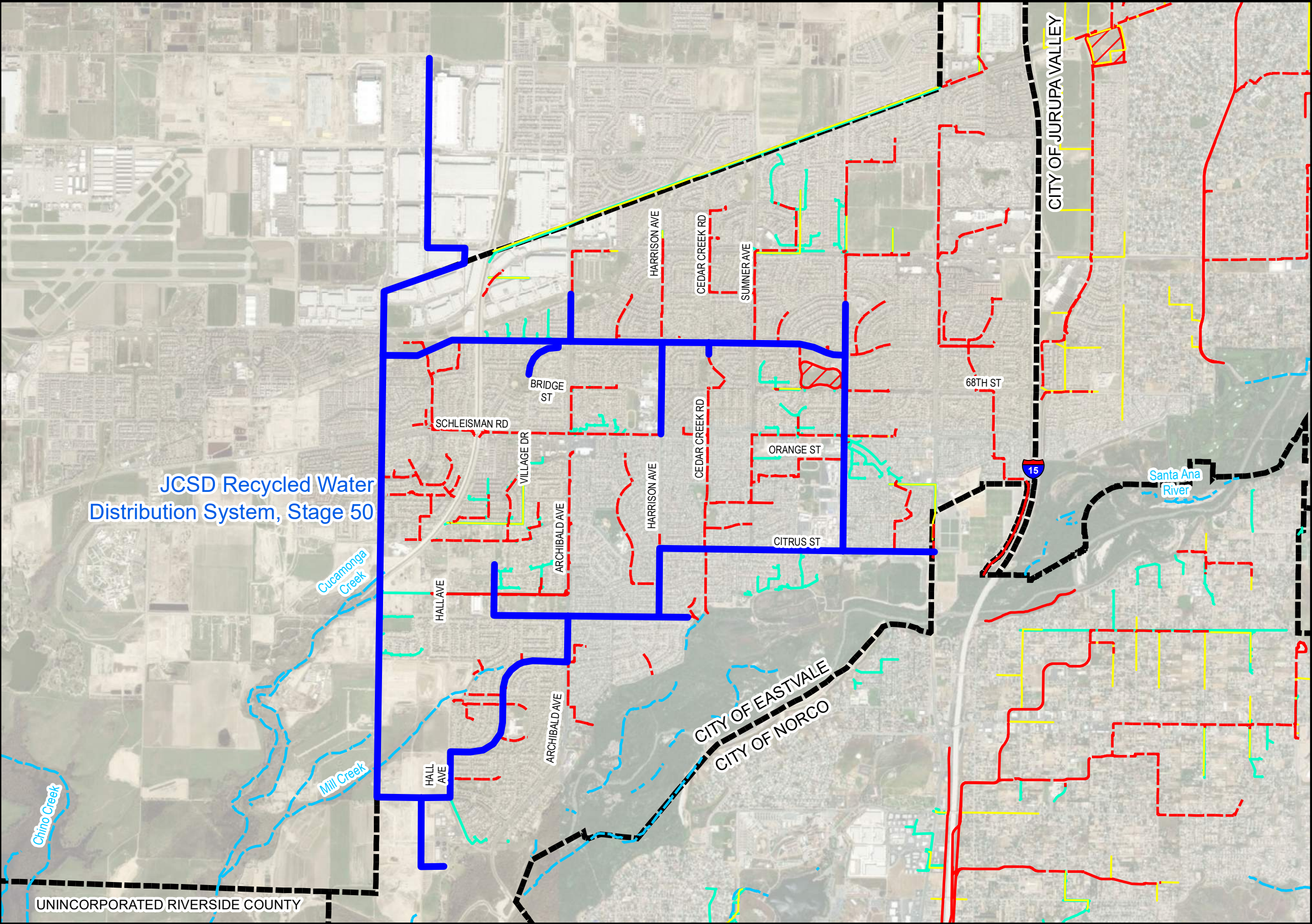


RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
**Bedford Canyon Channel, Stage 1**  
Supervisorial District 2



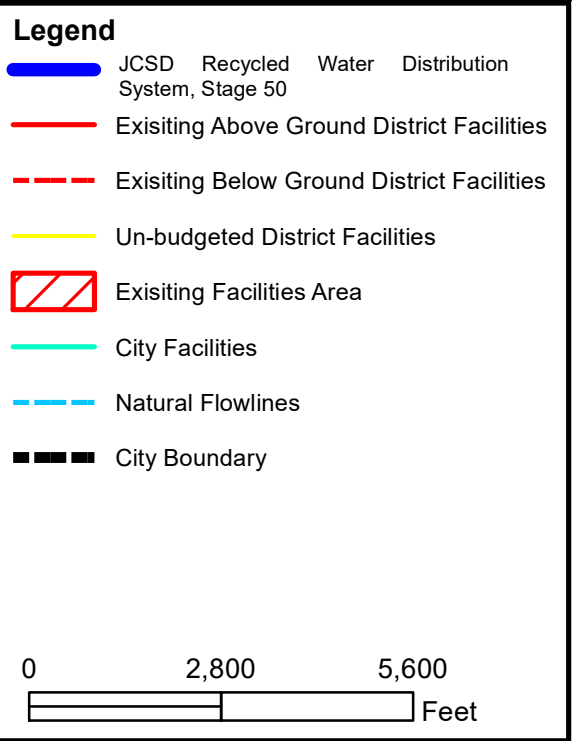
Project No.	2-8-00253-01
Engineer	M. Sethi
Date Created	10/8/2024



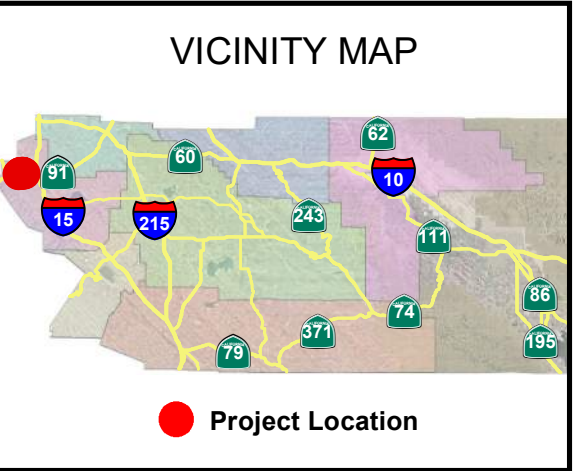
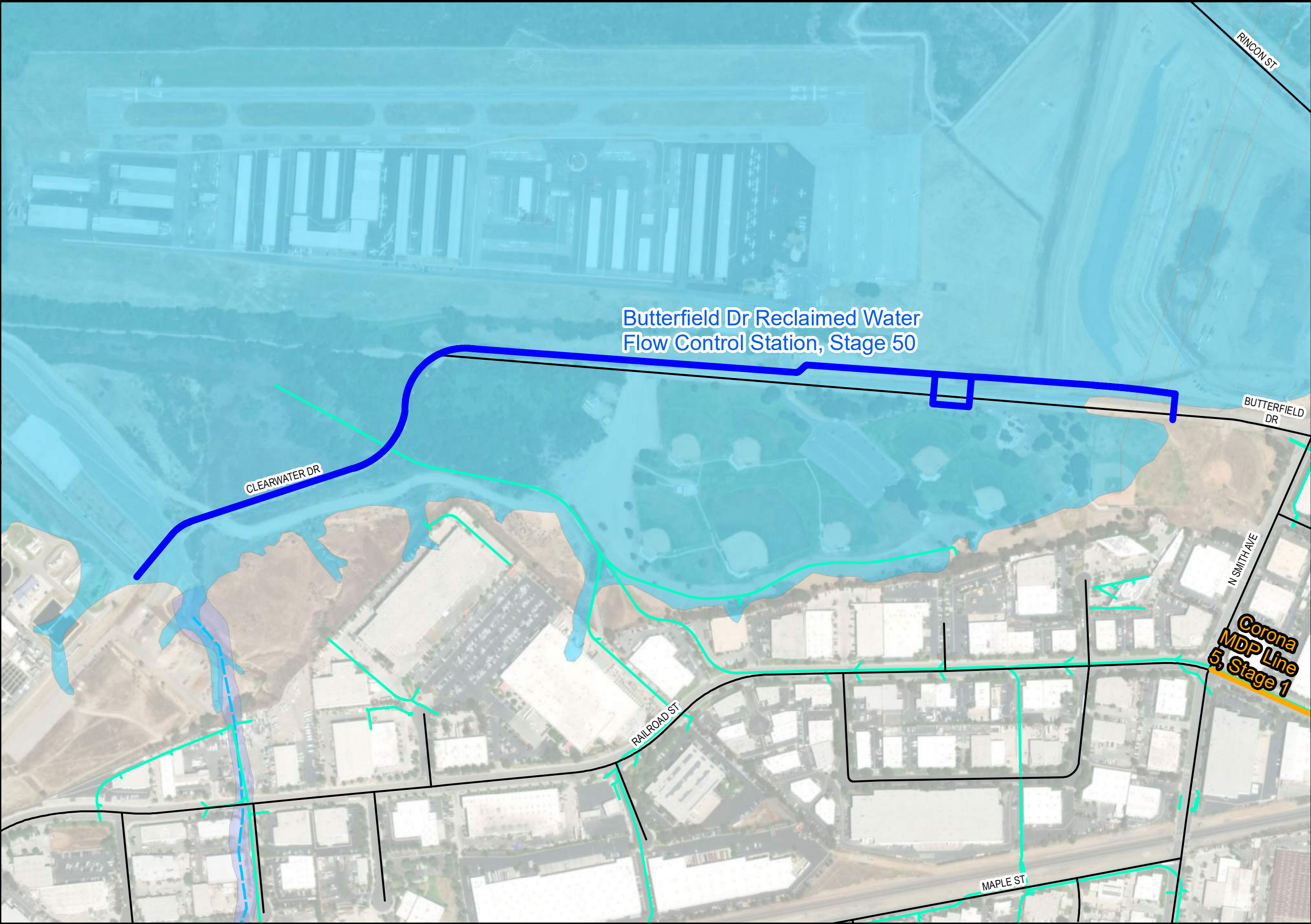


**Description**

This is a JCSD-led regional project to enhance reclaimed water use and includes a series of recycled water pipelines throughout Eastvale and a pump station at the Western Riverside County Regional Wastewater Authority. This regional collaboration will increase the amount of recycled water usage from the originally planned 660 acre-feet per year (AFY) to over 3,800 AFY in the JCSD and Corona service areas. JCSD will be responsible for operation and maintenance of the facility.

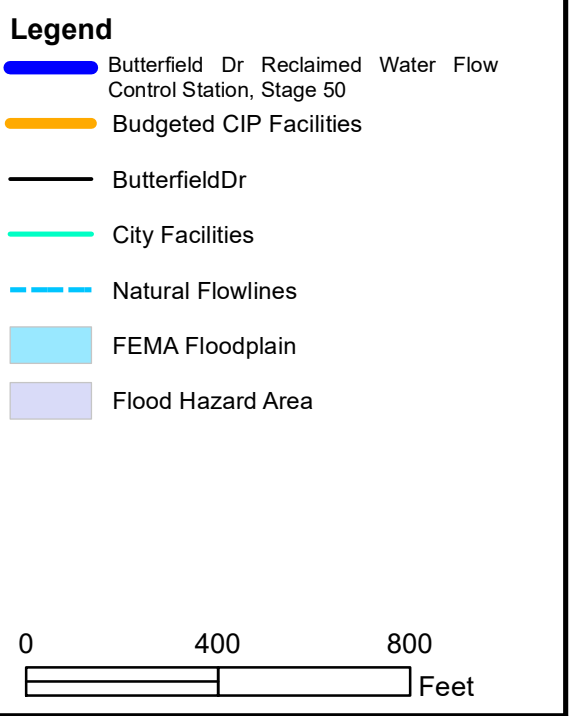




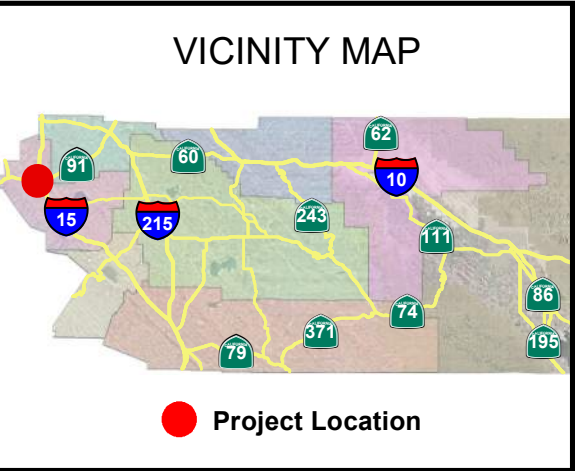
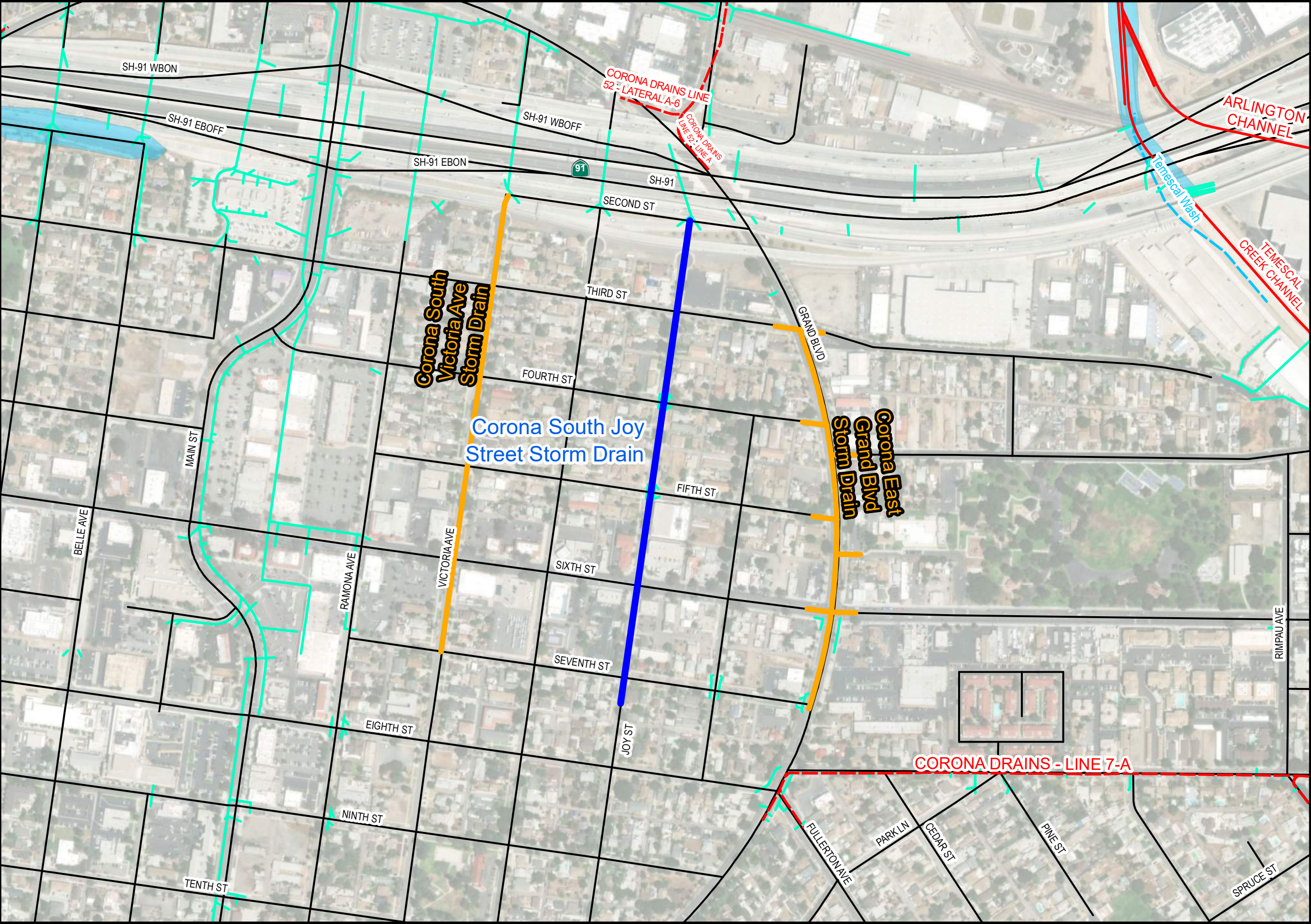


### Description

The City of Corona-led project will construct a 16-inch flow control station pipe to connect the existing 20-inch reclaimed waterline at Butterfield Drive to the existing 24-inch steel reclaimed pipeline delivering reclaimed water from the Water Reclamation Facility #1 (WRF1) reclaimed water storage tank to the Cota Ponds. The project will also include using high density polyethylene pipe to slip line approximately 4,000 feet of the existing 24-inch steel pipe from WRF1 to the proposed flow control station site. This project will, in conjunction with other projects, help transport approximately 12,000 acre-feet of reclaimed water per year for beneficial re-use. The City of Corona will be responsible for operation and maintenance of the facility.



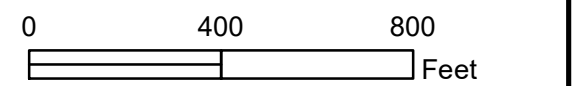




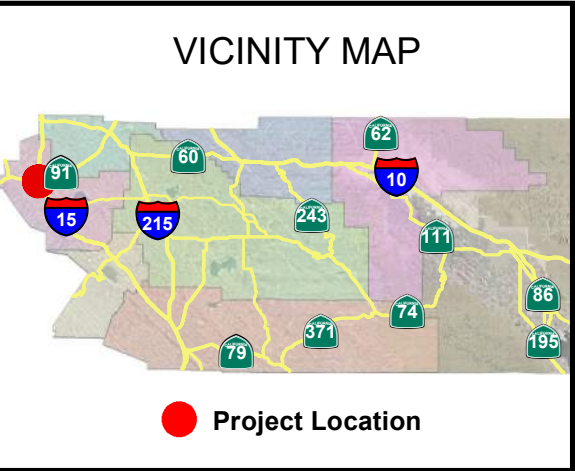
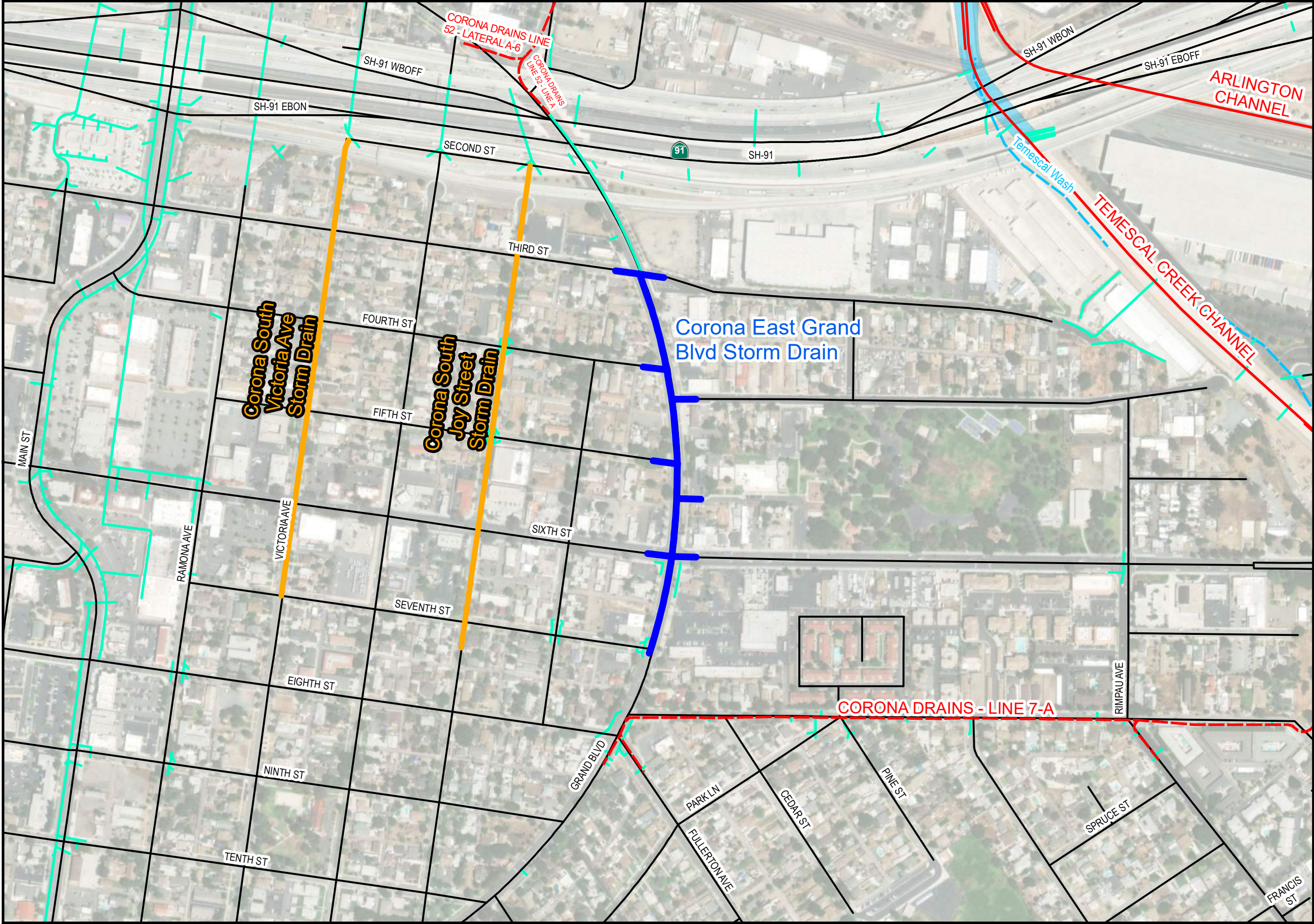
**Description**

The City of Corona-led project proposes to construct 1,600 feet of 36-inch diameter reinforced concrete pipe. The facility will convey storm flows from Seventh Street to Second Street and tie into an existing culvert under the 91 Freeway. The project will alleviate street flooding experienced along the streets. The City of Corona will be responsible for operation and maintenance of the facility.

- Legend**
- Corona South Joy Street Storm Drain
  - Existing Above Ground District Facilities
  - Existing Below Ground District Facilities
  - Other Budgeted CIP Facilities
  - City Facilities
  - Natural Flowlines
  - FEMA Floodplain

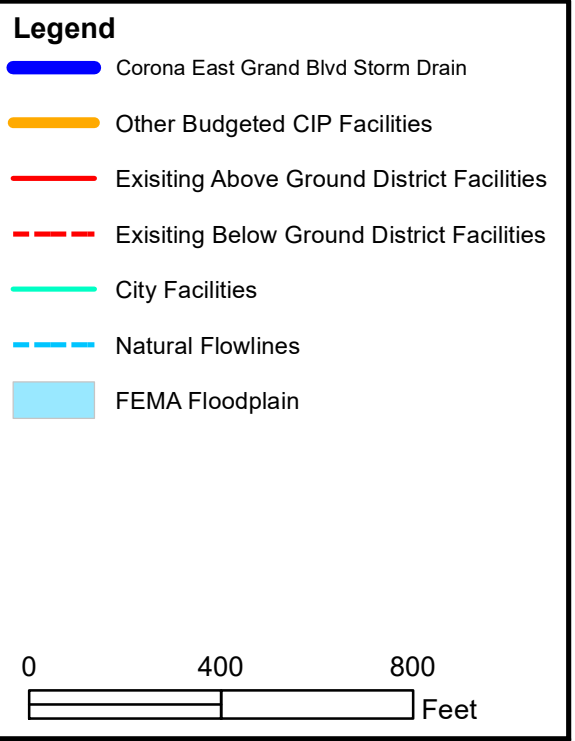




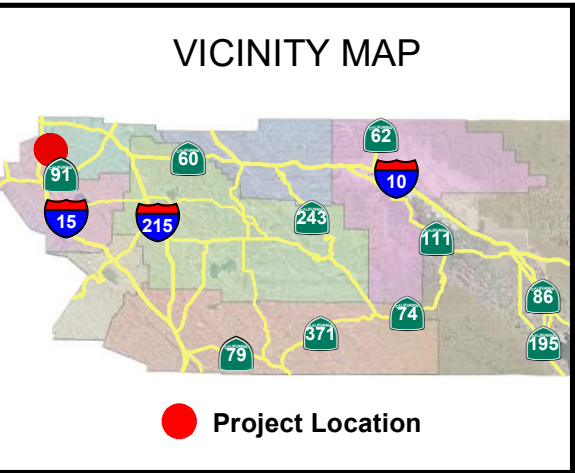
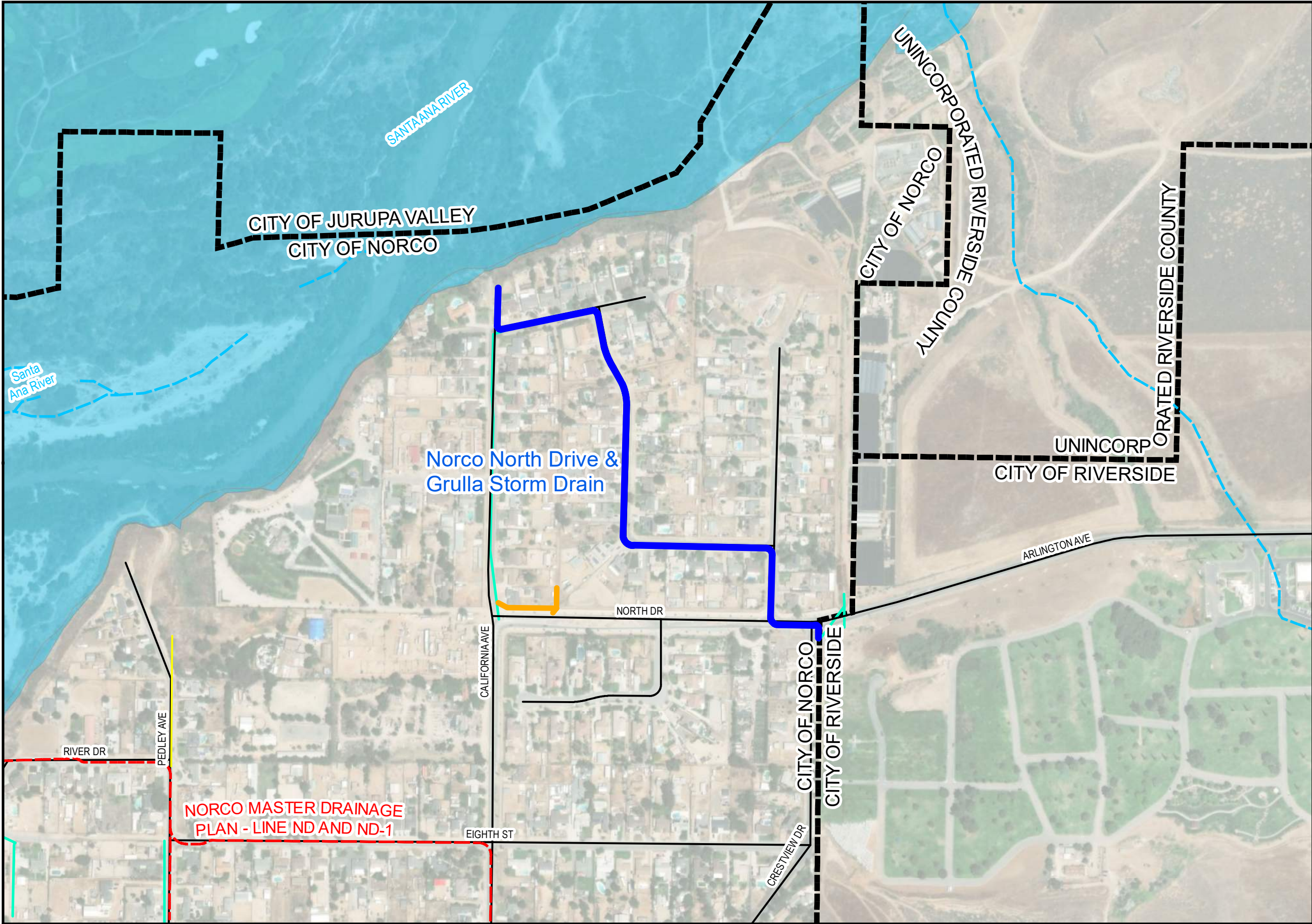


### Description

The City of Corona-led project proposes to construct 1,600 feet of 36-inch diameter reinforced concrete pipe. The facility will convey storm flows from Seventh Street to Third Street and tie into the existing Corona Line 52 storm drain. The project will alleviate street flooding experienced along the streets. The City will be responsible for operation and maintenance of the facility.







**Description**

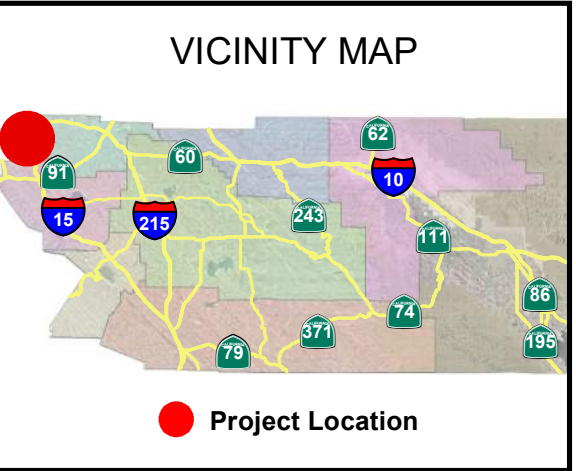
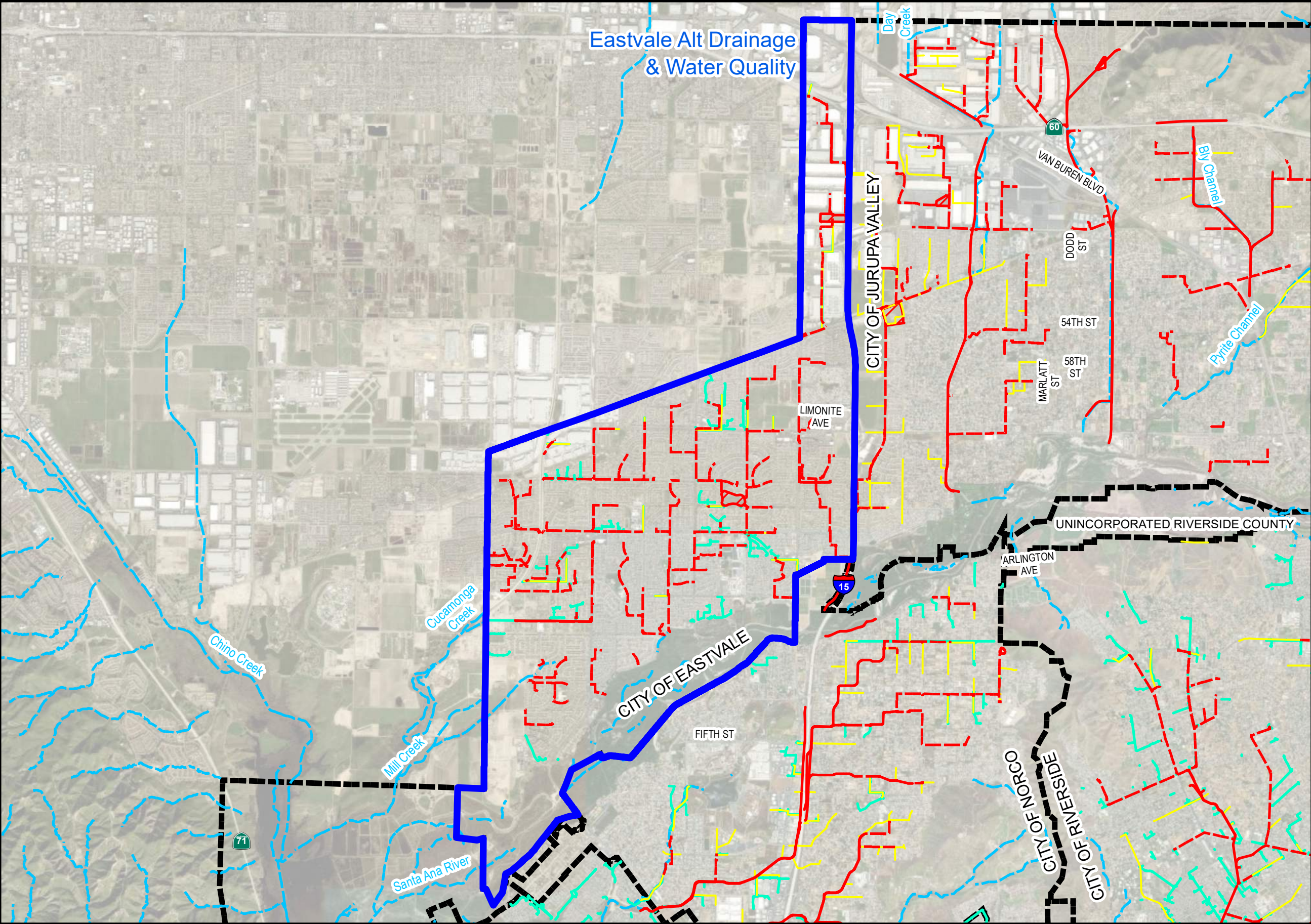
This is a City of Norco-led project to reduce street and community flooding by upgrading an existing facility. It consists of 2,750 feet of storm drain pipe collecting runoff from the intersection of Crestview Drive and North Drive and conveying it northwesterly into the Santa Ana River. The City of Norco will be responsible for operation and maintenance of the facility.

**Legend**

- Norco North Drive & Grulla Storm Drain
- Existing Below Ground District Facilities
- Other Budgeted CIP Facilities
- Un-budgeted District Facilities
- City Facilities
- Natural Flowlines
- City Boundary
- FEMA Floodplain

0 400 800 Feet





**Description**

This is a City of Eastvale-led study to evaluate the feasibility to retrofit existing surface Best Management Practices (BMP) from private land to be repurposed for potential multi-use/public benefits for the City. Some of the potential solutions for these relocations are alternate/underground drainage detention, retention, infiltration, and water quality improvement facilities. The study will also evaluate ways to address the water quality issue of pollutants discharged to the Santa Ana River during the dry season.

**Legend**

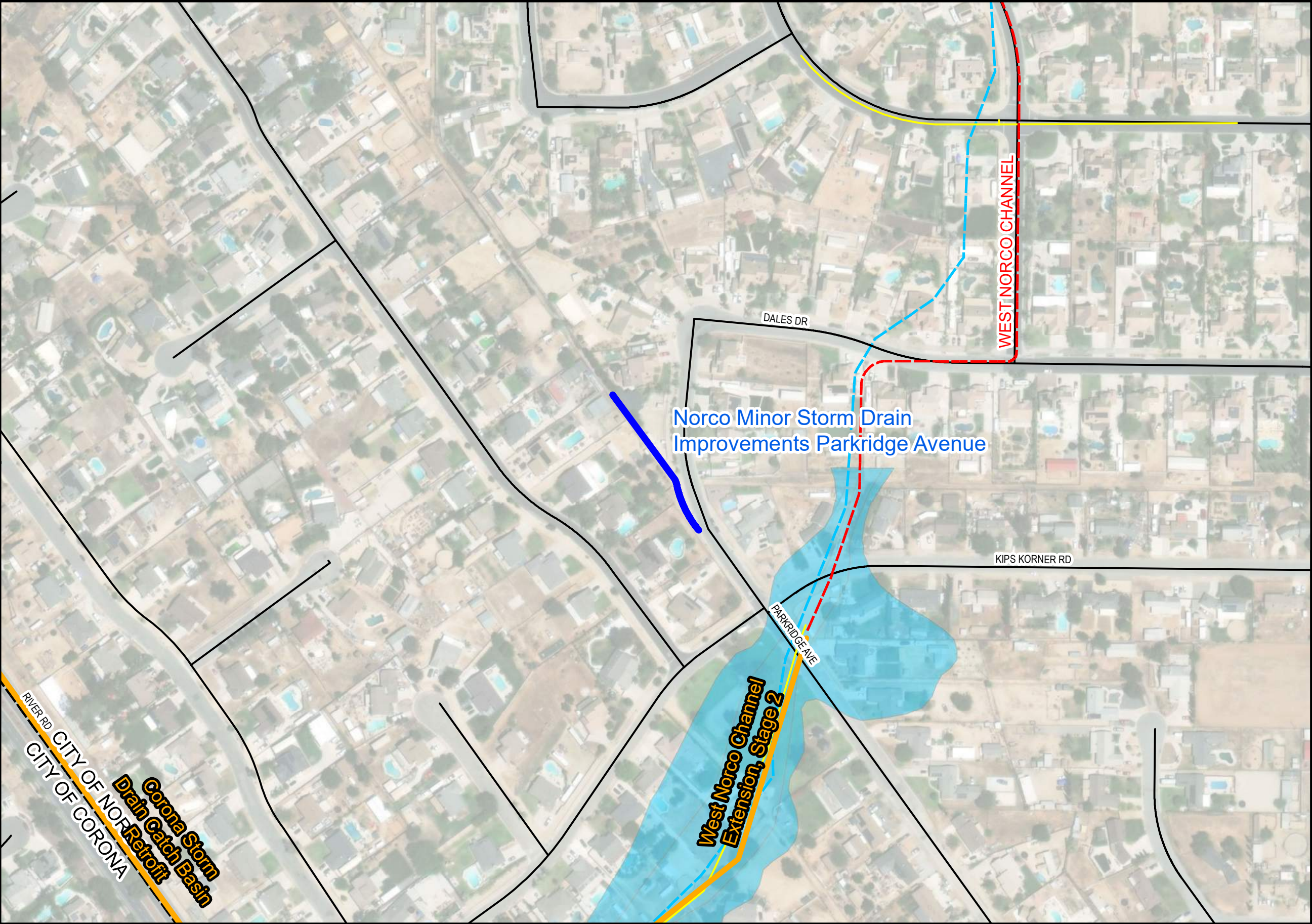
- Eastvale Alt Drainage & Water Quality
- Existing Above Ground District Facilities
- Existing Below Ground District Facilities
- Un-budgeted District Facilities
- Existing Facilities Area
- City Facilities
- Natural Flowlines
- City Boundary

0 5,000 10,000 Feet

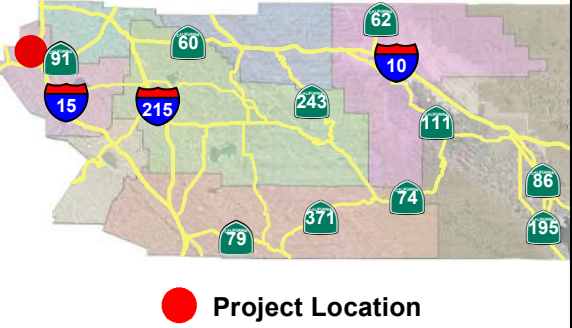








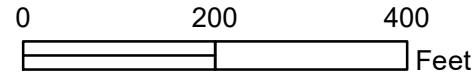
VICINITY MAP



**Description**

These City of Norco-led projects consists of approximately 600 feet of 18" reinforced concrete pipe (RCP) for two separate minor improvement projects within Parkridge Avenue and North Drive in the City of Norco. The projects will reduce flooding in the area. The first location is near the intersection of Parkridge Avenue and Kips Corner Road. The proposed storm drain will capture runoff from existing private properties and convey it southeasterly onto Parkridge Avenue. The City of Norco will be responsible for operation and maintenance of both facilities.

- Legend**
- Norco Minor Storm Drain Improvements Parkridge Avenue
  - Other Budgeted CIP Facilities
  - Existing Below Ground District Facilities
  - Un-budgeted District Facilities
  - Natural Flowlines
  - City Boundary
  - FEMA Floodplain

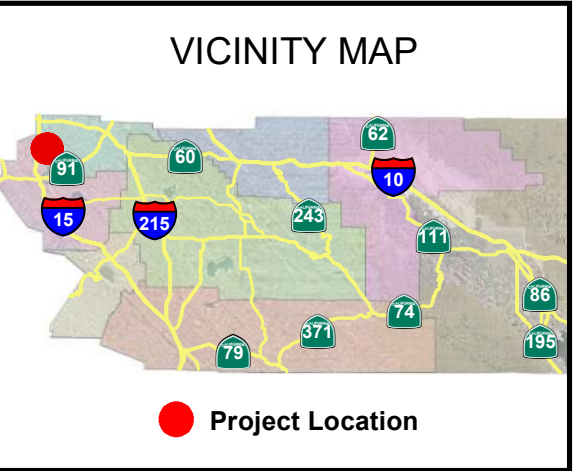
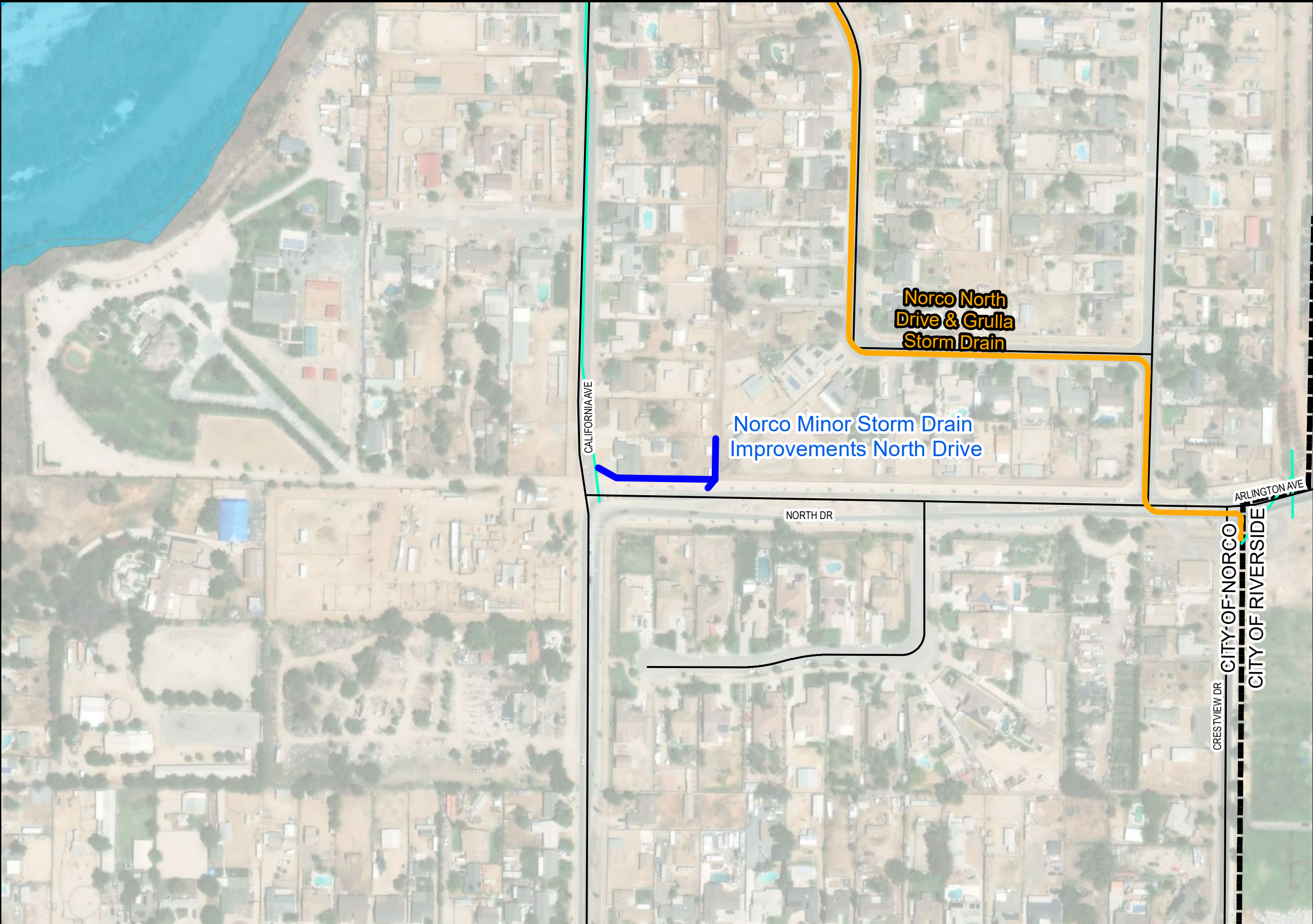


RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
**Norco Minor Storm Drain Improvements Parkridge Avenue**  
Supervisory District 2



Project No.	2-6-10044-00
Engineer	T. Hanson
Date Created	6/3/2024

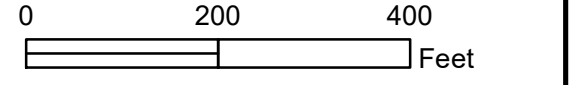




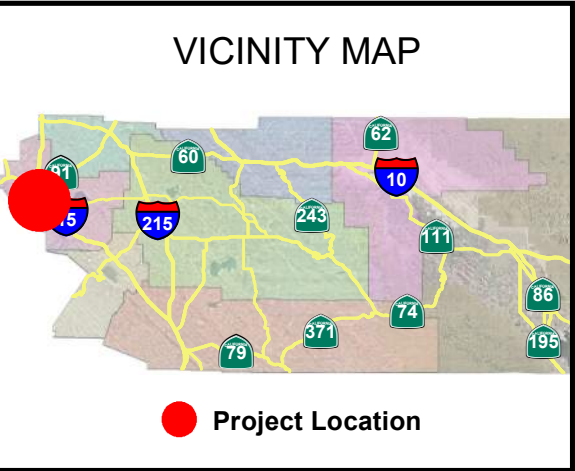
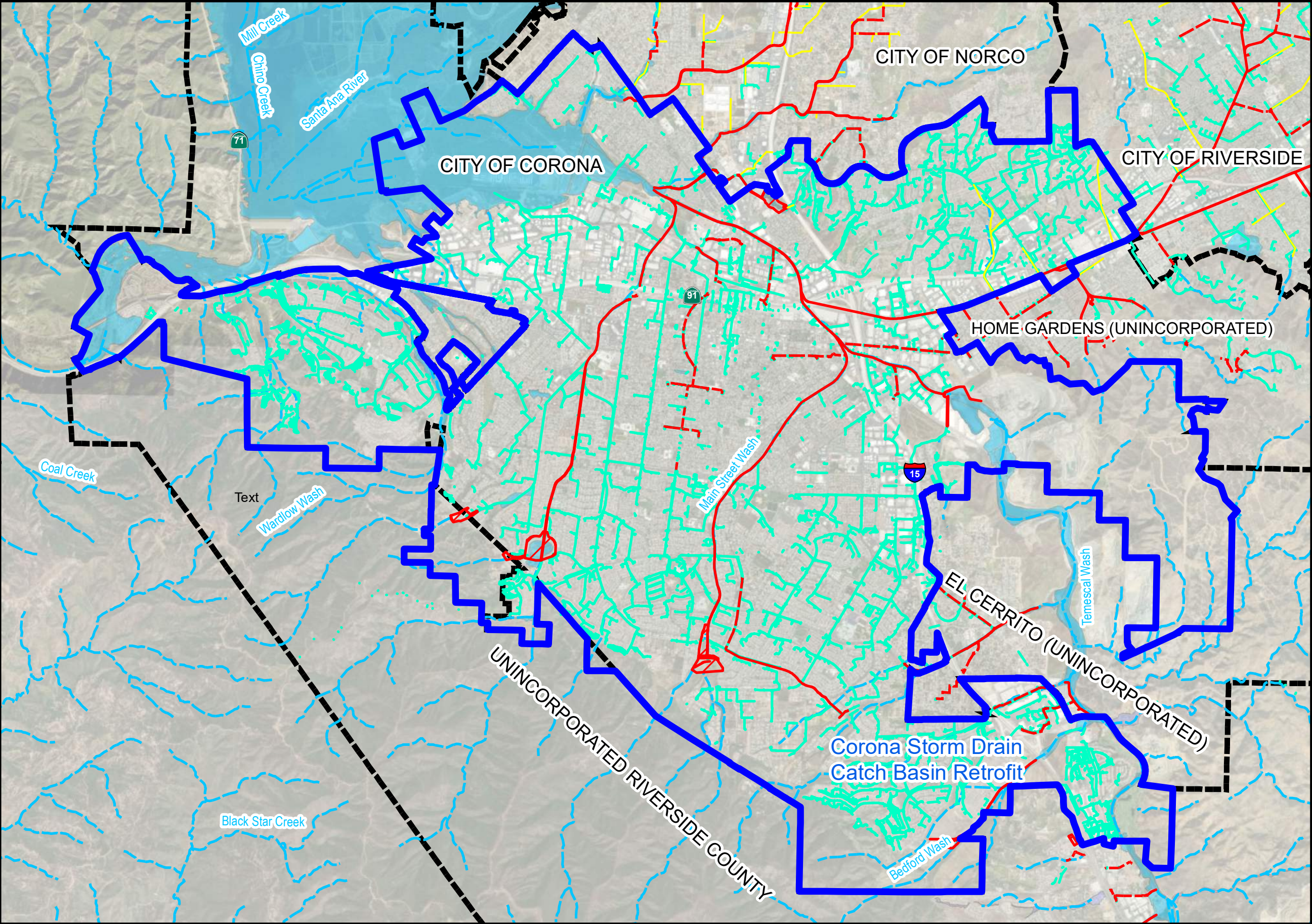
**Description**

These City of Norco-led projects consists of approximately 600 feet of 18" reinforced concrete pipe (RCP) for two separate minor improvement projects within Parkridge Avenue and North Drive in the City of Norco. The projects will reduce flooding in the area. The second location is situated on private property near the intersection of North Drive and California Avenue. The proposed storm drain will capture runoff from multiple residential properties and convey it westerly via proposed 18-inch RCP storm drain to an existing catch basin in California Avenue. Also proposed is an alternate design utilizing 18-inch RCP storm drain and an under-sidewalk drain to convey runoff onto North Drive. The City of Norco will be responsible for operation and maintenance of both facilities.

- Legend**
- Norco Minor Storm Drain Improvements North Drive
  - Other Budgeted CIP Facilities
  - City Facilities
  - Natural Flowlines
  - City Boundary
  - FEMA Floodplain

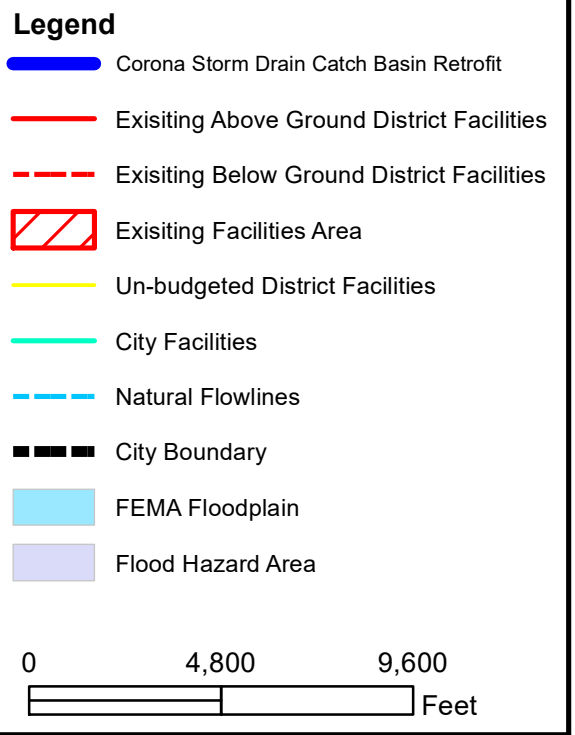




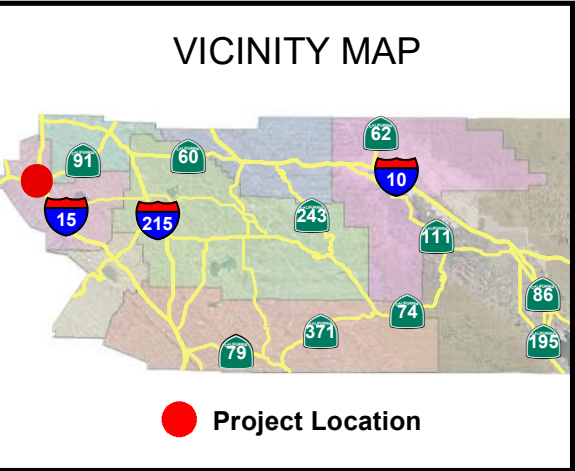
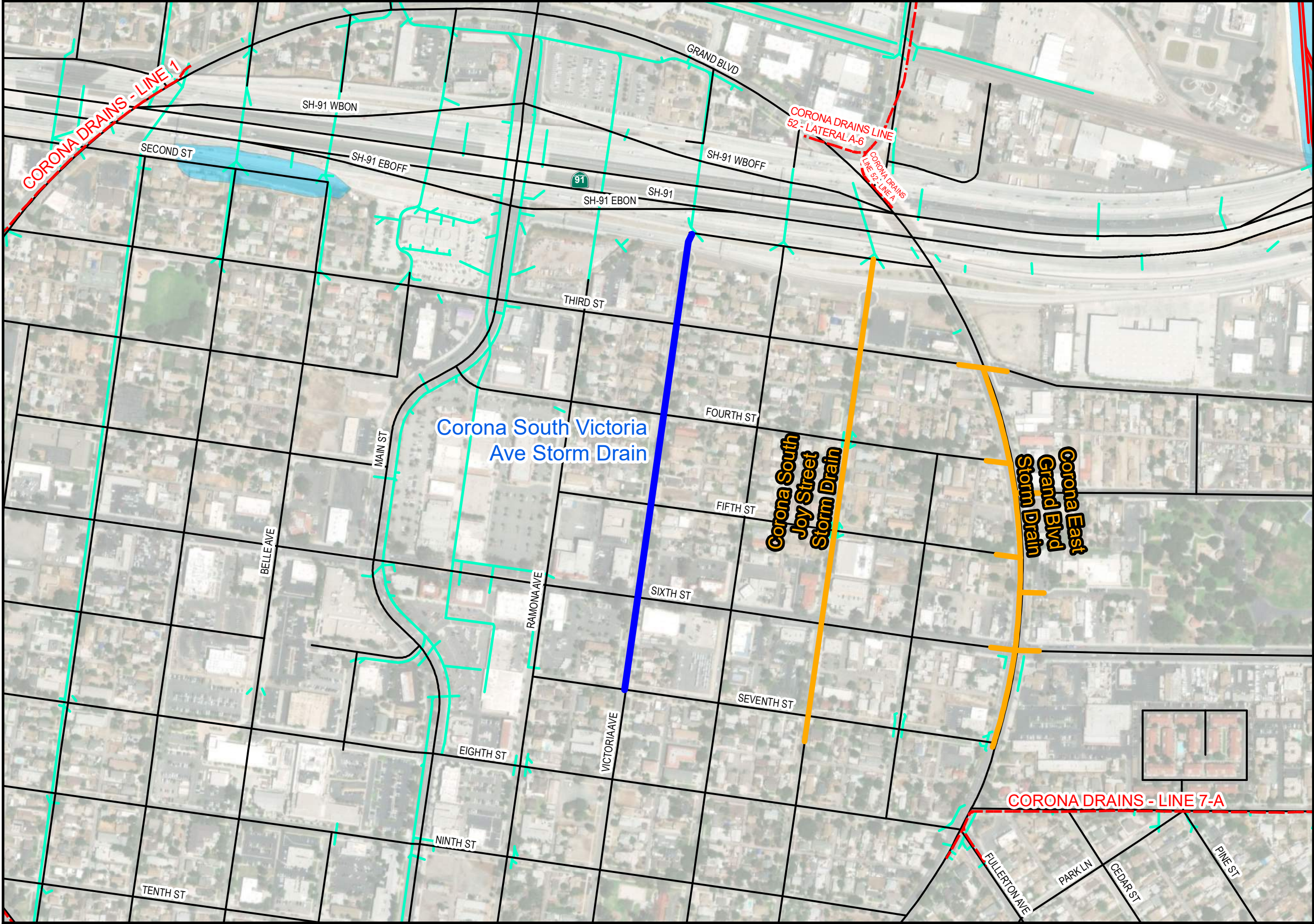


**Description**

The City of Corona (City)-led project will install 1,200 trash capture devices inside catch basins in a multi-year duration with a projected completion year of 2030. The project is to comply with the Santa Ana Regional Water Quality Control Board's (Board) Trash Provisions order in addressing the impacts of trash on surface waters. The City is working with the Board to begin installing approved trash capture devices in catch basins located in high density areas citywide. The City will be responsible for operation and maintenance of the facilities.



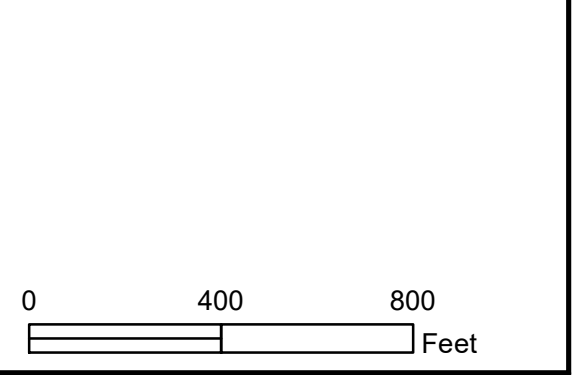




**Description**

This is a City of Corona-led project to reduce flooding within Victoria Avenue. The project consists of approximately 1,900 feet of 36-inch diameter reinforced concrete pipe proposed to collect and convey runoff from Seventh Street toward an existing culvert crossing the 91 Freeway. The City of Corona will be responsible for operation and maintenance of the facility.

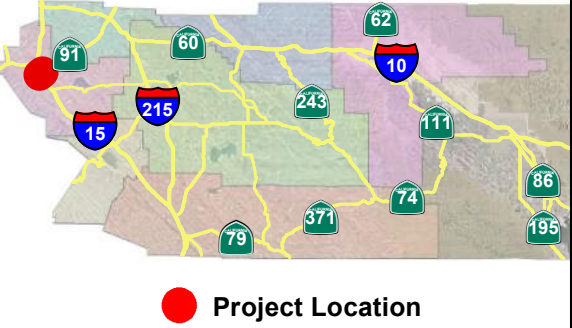
- Legend**
- Corona South Victoria Ave Storm Drain
  - Existing Above Ground District Facilities
  - Existing Below Ground District Facilities
  - Other Budgeted CIP Facilities
  - City Facilities
  - FEMA Floodplain







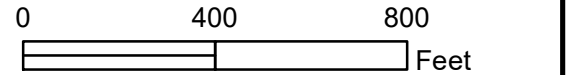
VICINITY MAP



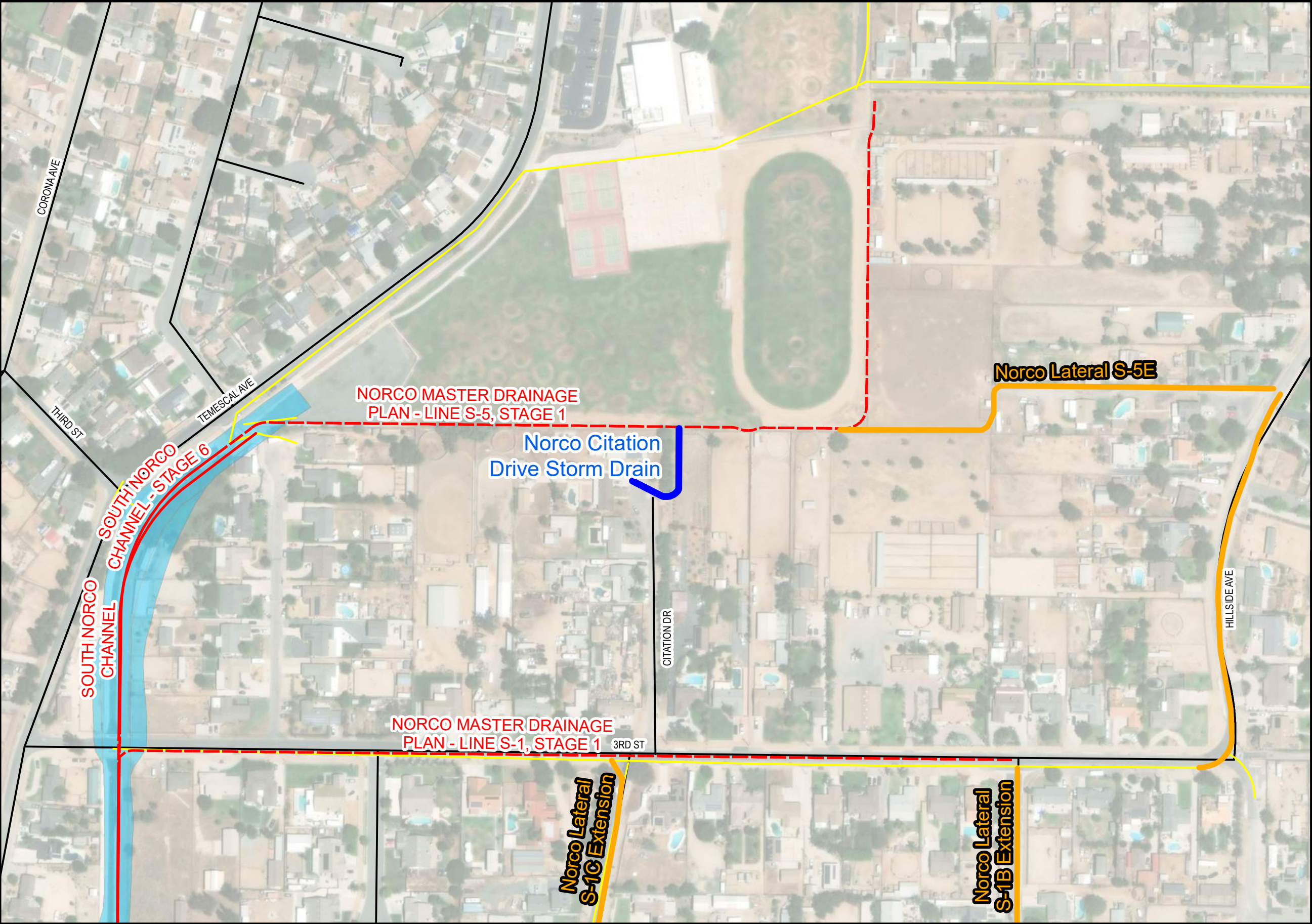
**Description**

This is a City of Corona-led project to construct a master planned storm drain to provide flood protection to businesses and residences along Magnolia Avenue. The project consists of approximately 3,000 feet of 24-inch to 33-inch diameter underground storm drain. The project will collect runoff at Kellogg Avenue and convey it to the existing City-owned storm drain in Magnolia Avenue ending at Mt. Wilson. The City of Corona will be responsible for operation and maintenance of the facility.

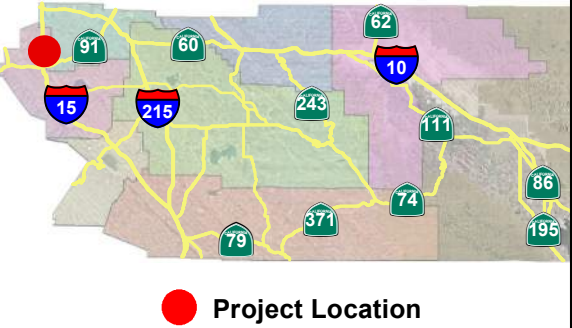
- Legend**
- Corona Drains Line 9A
  - Existing Above Ground District Facilities
  - Existing Below Ground District Facilities
  - City Facilities
  - Natural Flowlines
  - FEMA Floodplain







VICINITY MAP

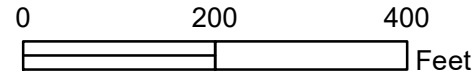


Description

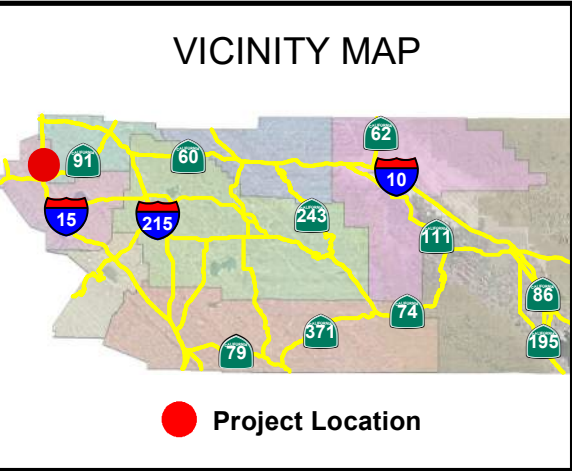
This is a City of Norco-led project to reduce street and community flooding. It consists of 200 feet of 24-inch diameter storm drain pipe to collect water from a low point on Citation Drive and convey it north to the existing District Norco Master Drainage Plan Line S-5 storm drain. The City will be responsible for operation and maintenance of the facility.

Legend

- Norco Citation Drive Storm Drain
- Existing Above Ground District Facilities
- Existing Below Ground District Facilities
- Other Budgeted CIP Facilities
- Un-budgeted District Facilities
- FEMA Floodplain



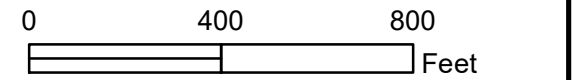




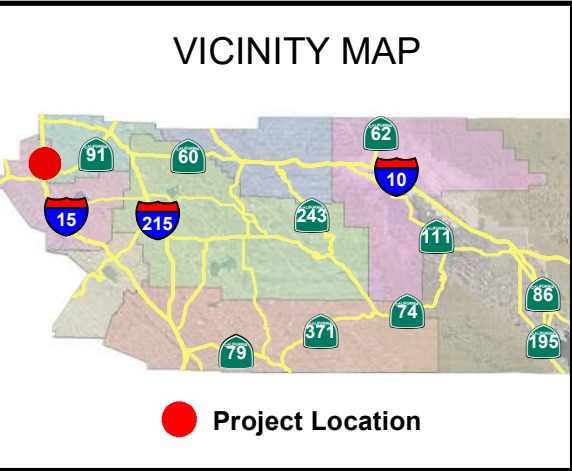
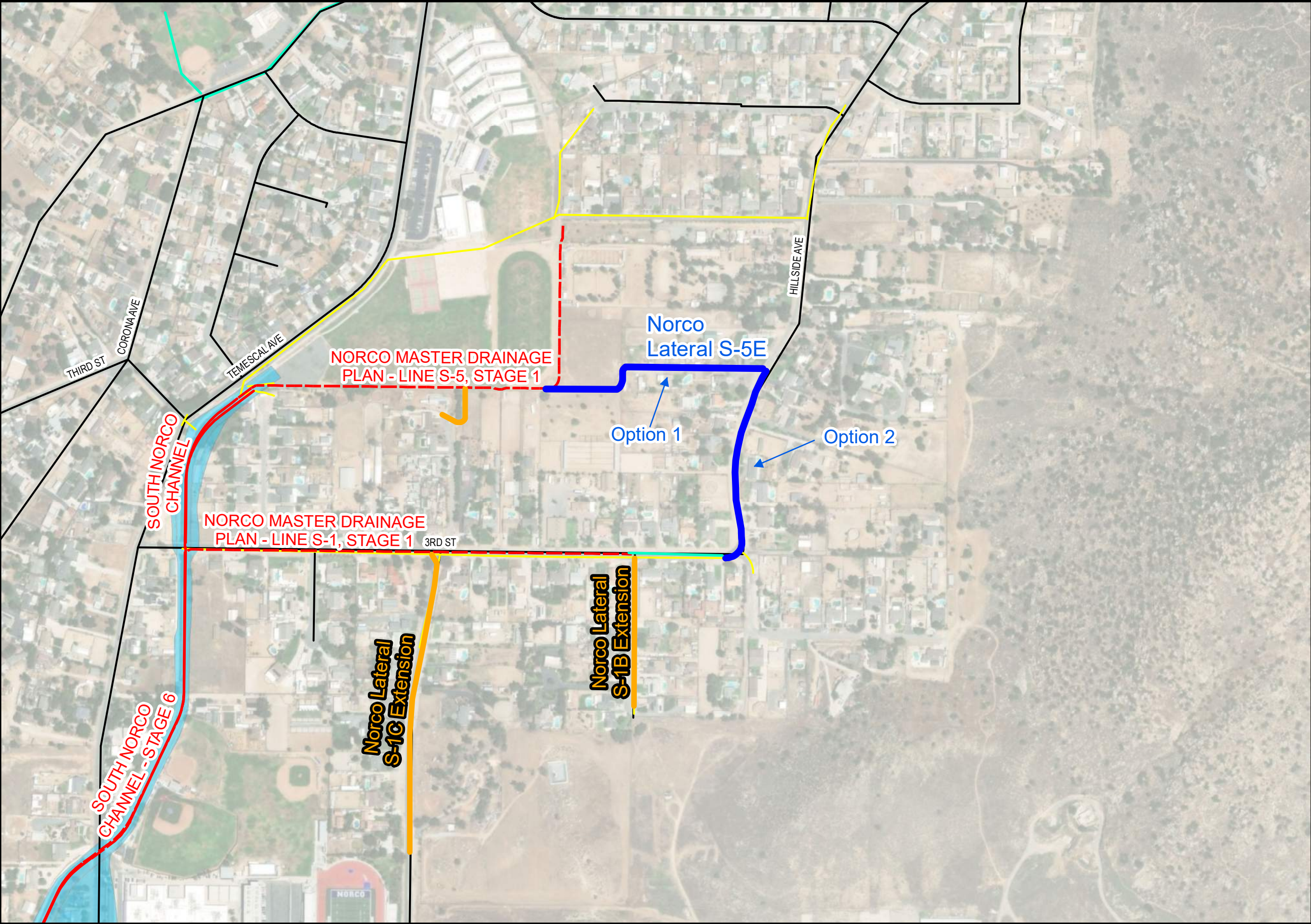
**Description**

This is a City of Norco-led project to place 1,300 feet of 30-inch reinforced concrete pipe within Hillside Avenue to collect flows and drain them north into the existing District Norco Master Drainage Plan Line S-1 storm drain located in Third Street. The City will be responsible for operation and maintenance of the facility.

- Legend**
- Norco Lateral S-1C Extension
  - Existing Above Ground District Facilities
  - Existing Below Ground District Facilities
  - Other Budgeted CIP Facilities
  - Un-budgeted District Facilities
  - FEMA Floodplain

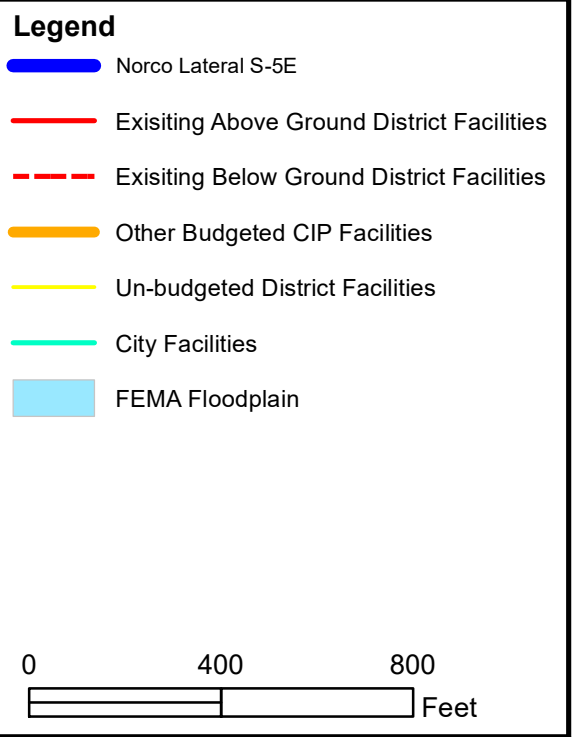




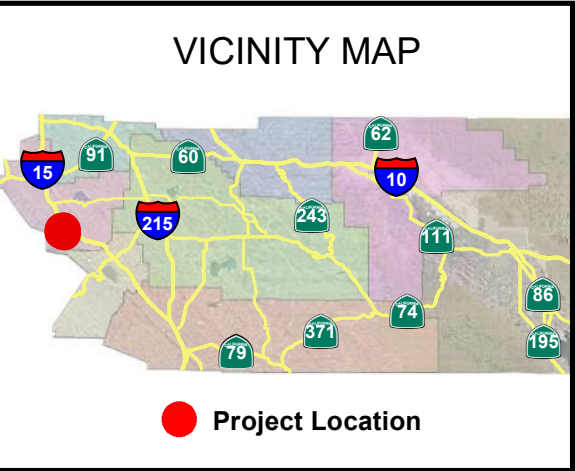
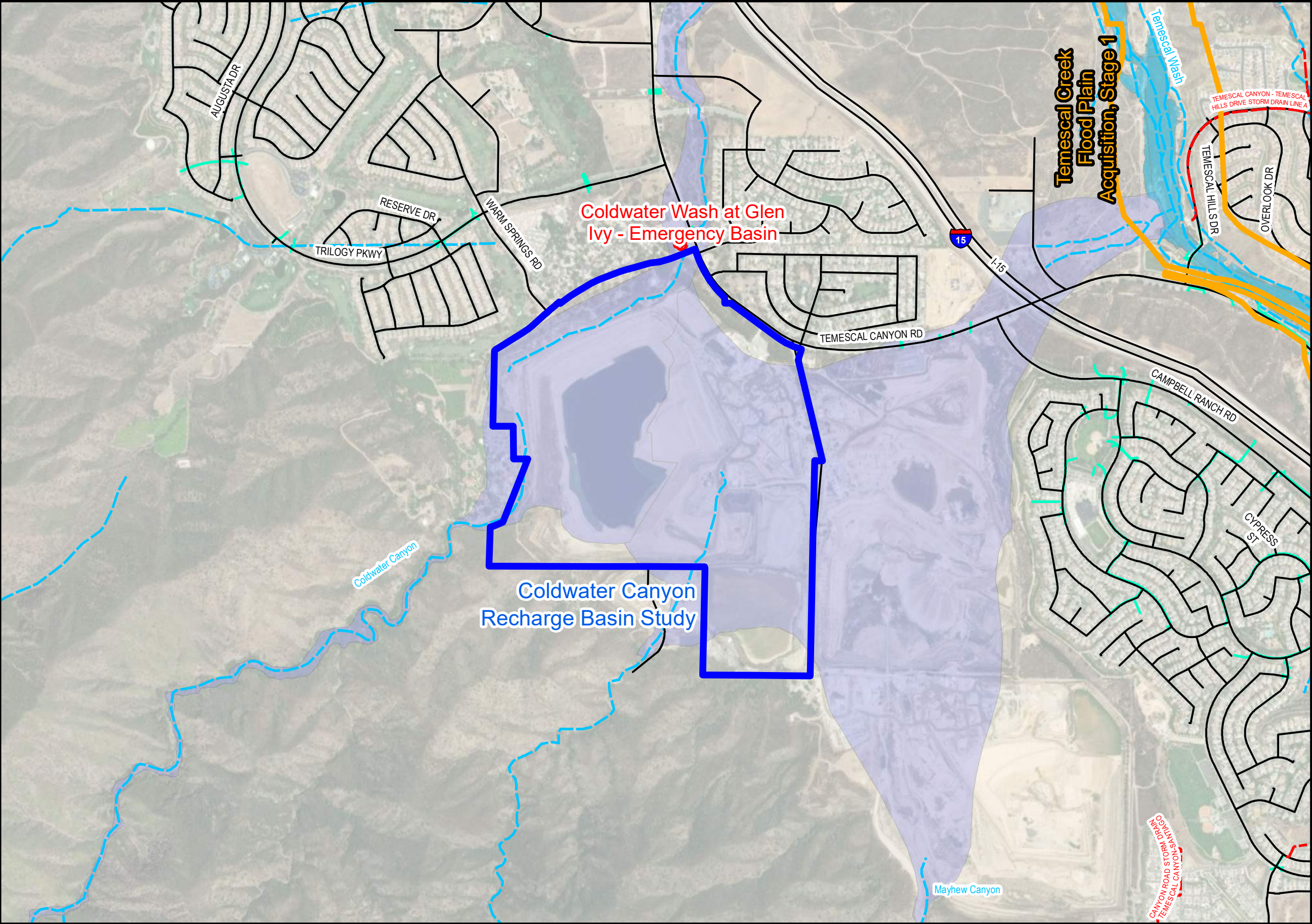


### Description

This is a City of Norco-led project to reduce street and community flooding. The City is exploring two options on Hillside Avenue: Option 1 consists of 1,100 feet of 24-inch to 36-inch diameter reinforced concrete pipe within private property to collect flows and convey them westerly to Norco Master Drainage Plan Line S-5; and Option 2 consists of 1,110 feet of 24-inch to 36-inch diameter reinforced concrete pipe within Hillside Avenue to collect flows and convey them southerly to Norco Master Drainage Plan Line S-1. The City will be responsible for operation and maintenance of the facility.

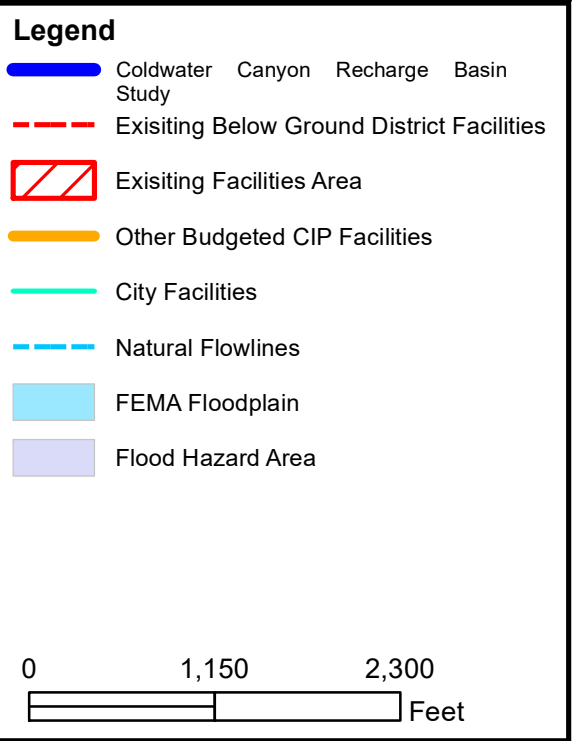




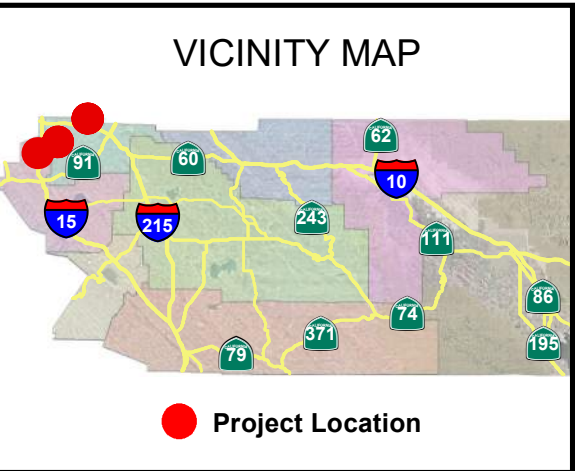
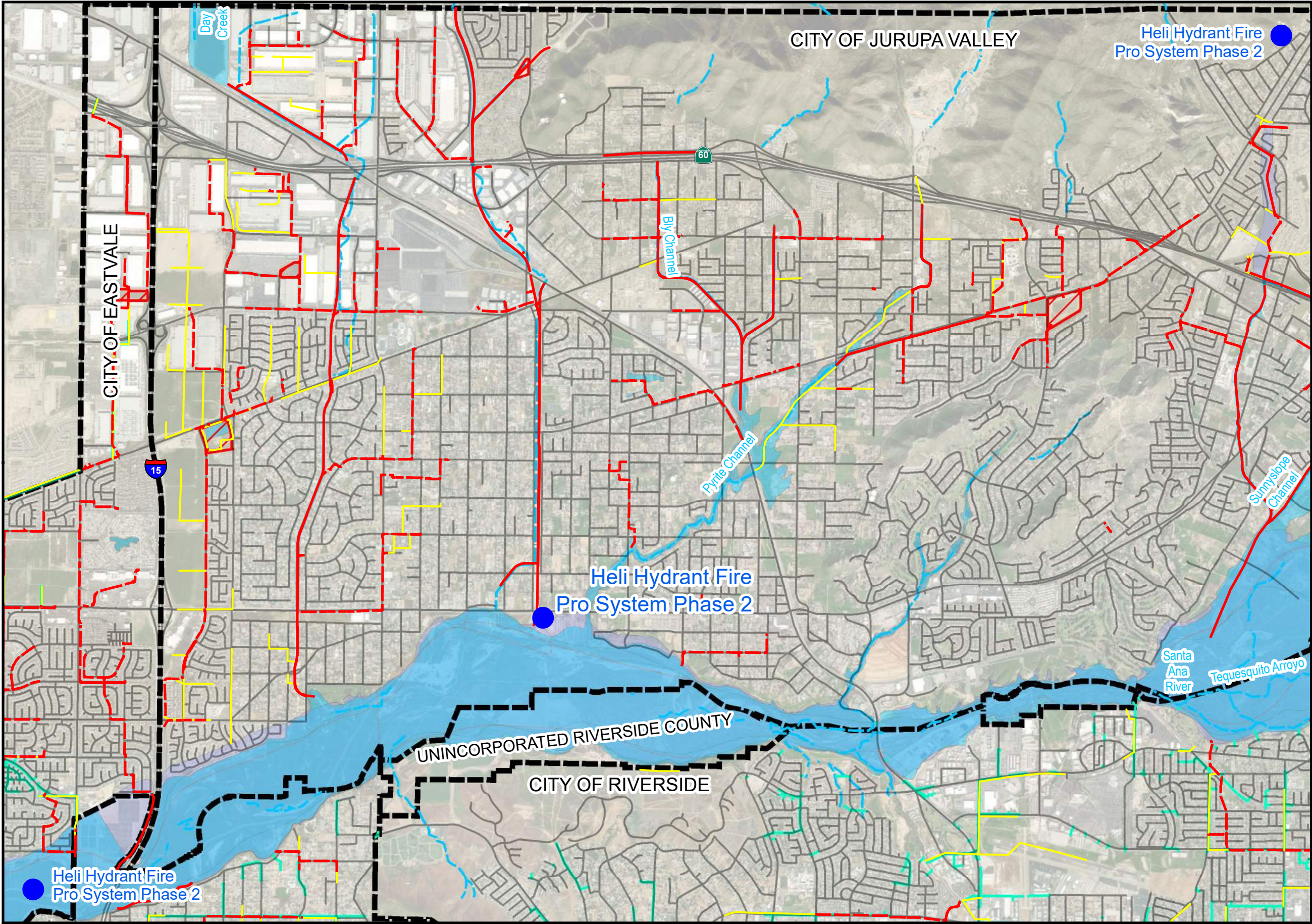


### Description

This is a City of Corona-led project to reevaluate the runoff from Coldwater Canyon and Mayhew Canyon and methods to allow some of the water to be recharged into the mining pits during storm events. The Strategic Planning Summary Report, dated January 2017, includes retention basins, a down spout into the Chandler mining pit and other stormwater appurtenances that address flood risk reduction and water conservation. This study would also look at the best approach to protect water quality.

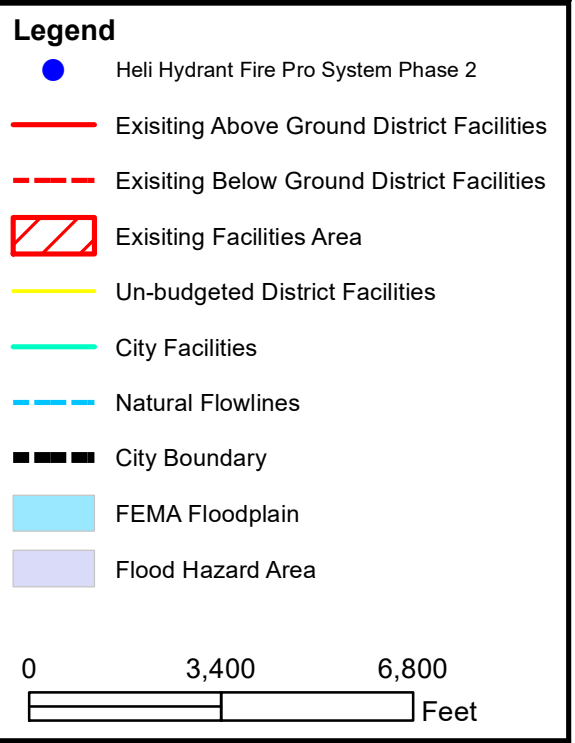




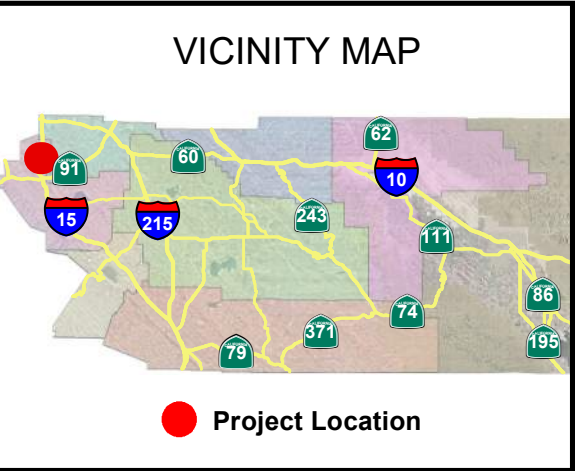
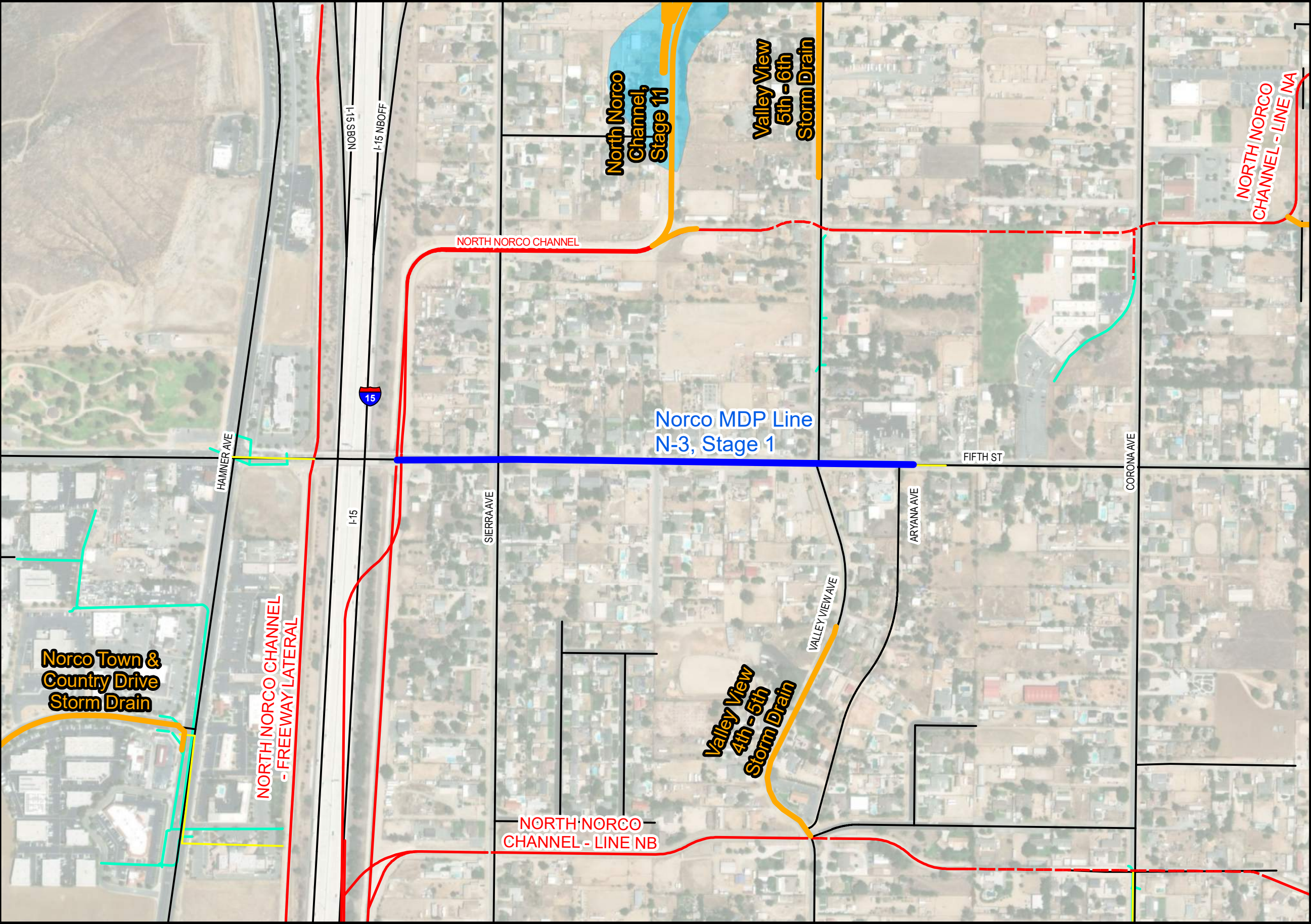


### Description

This is a Jurupa Community Services District (JCSD)-led project to install three 15-foot diameter by 8- foot-tall Heli-Hydrant tank systems to provide the California Department of Forestry and Fire Protection (Cal Fire) with reliable and accessible water resources during wildfire events. The tank systems will improve Cal Fire pilots' response time to eradicate fires, reducing the risk of loss of life and property to the surrounding communities within Riverside County, including the associated the post-fire flood risk. The decreased response times will also reduce the amount of water used during wildfire events and the burn area, resulting in water conservation. JCSD will be responsible for operation and maintenance of the facility.







### Description

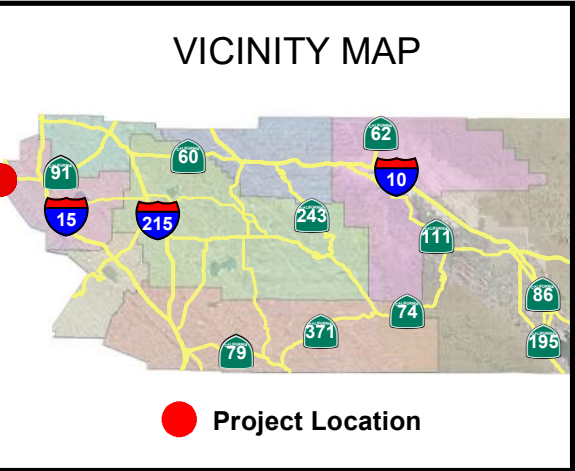
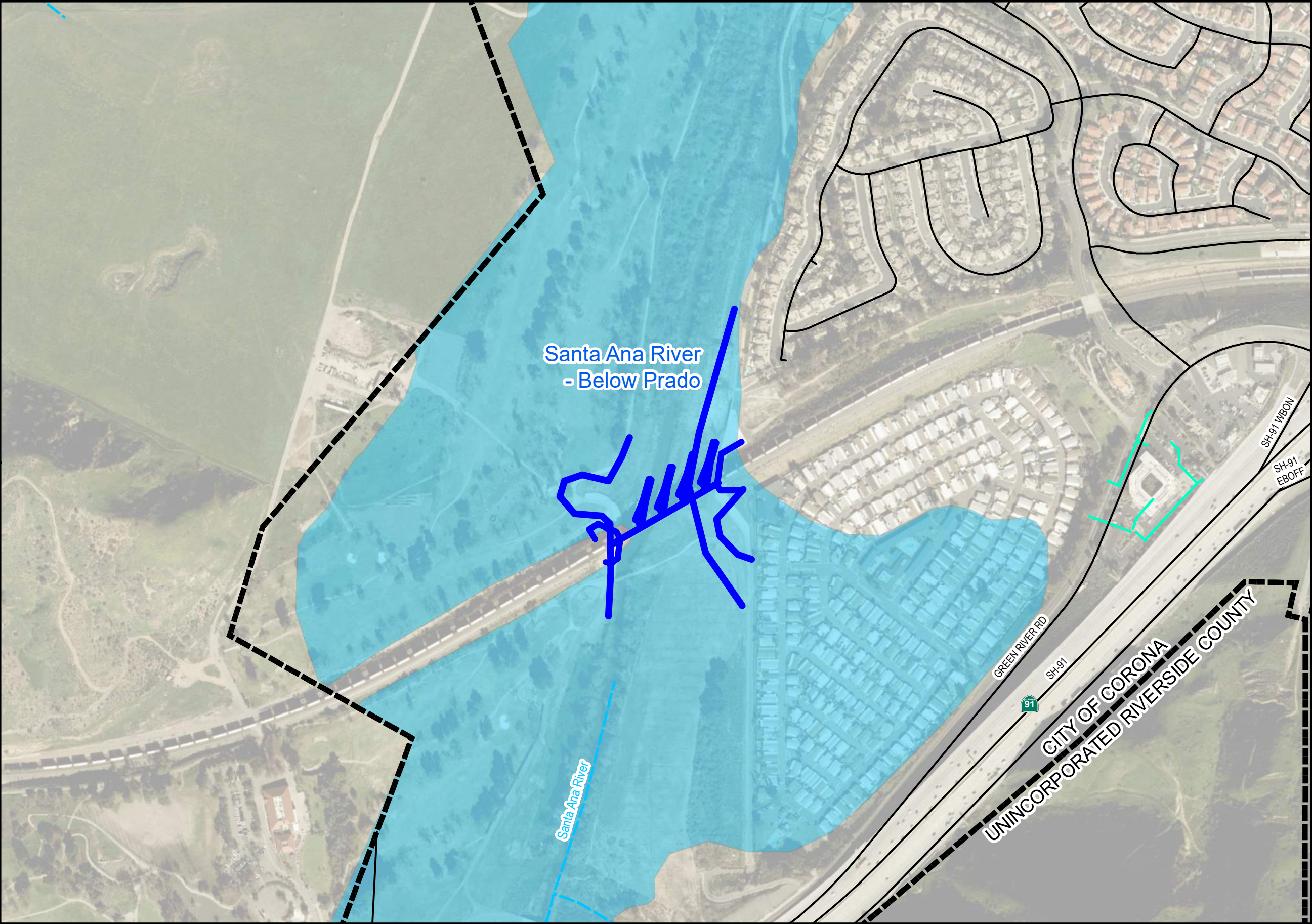
The City of Norco-led project proposes approximately 2,100 feet of reinforced concrete pipe, ranging in pipe diameter from 36 inches to 66 inches. The storm drain alignment is within 5th Street and conveys flows from Aryana Avenue to North Norco Channel, located on the east side of Interstate 15. This project will alleviate flooding within the streets and surrounding area. The District and the City of Norco will share operation and maintenance responsibilities based on storm drain sizing.

### Legend

- Norco MDP Line N-3, Stage 1
- Existing Above Ground District Facilities
- Existing Below Ground District Facilities
- Other Budgeted CIP Facilities
- Un-budgeted District Facilities
- City Facilities
- FEMA Floodplain

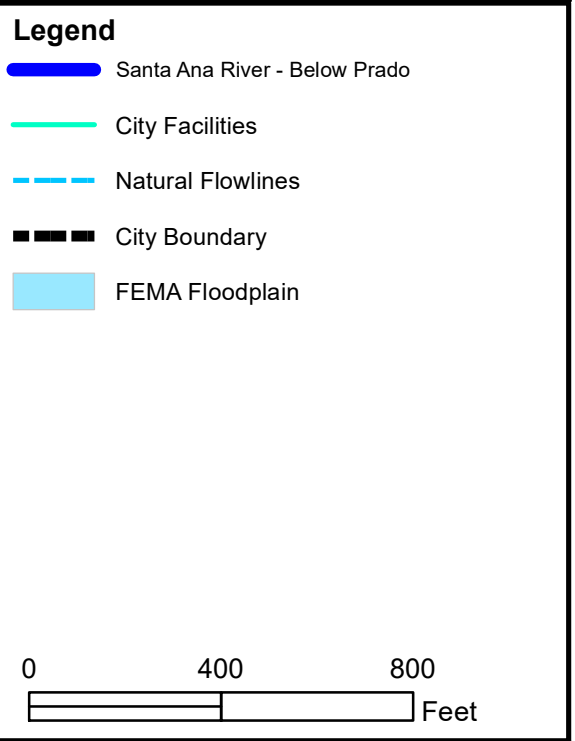
0 400 800 Feet





**Description**

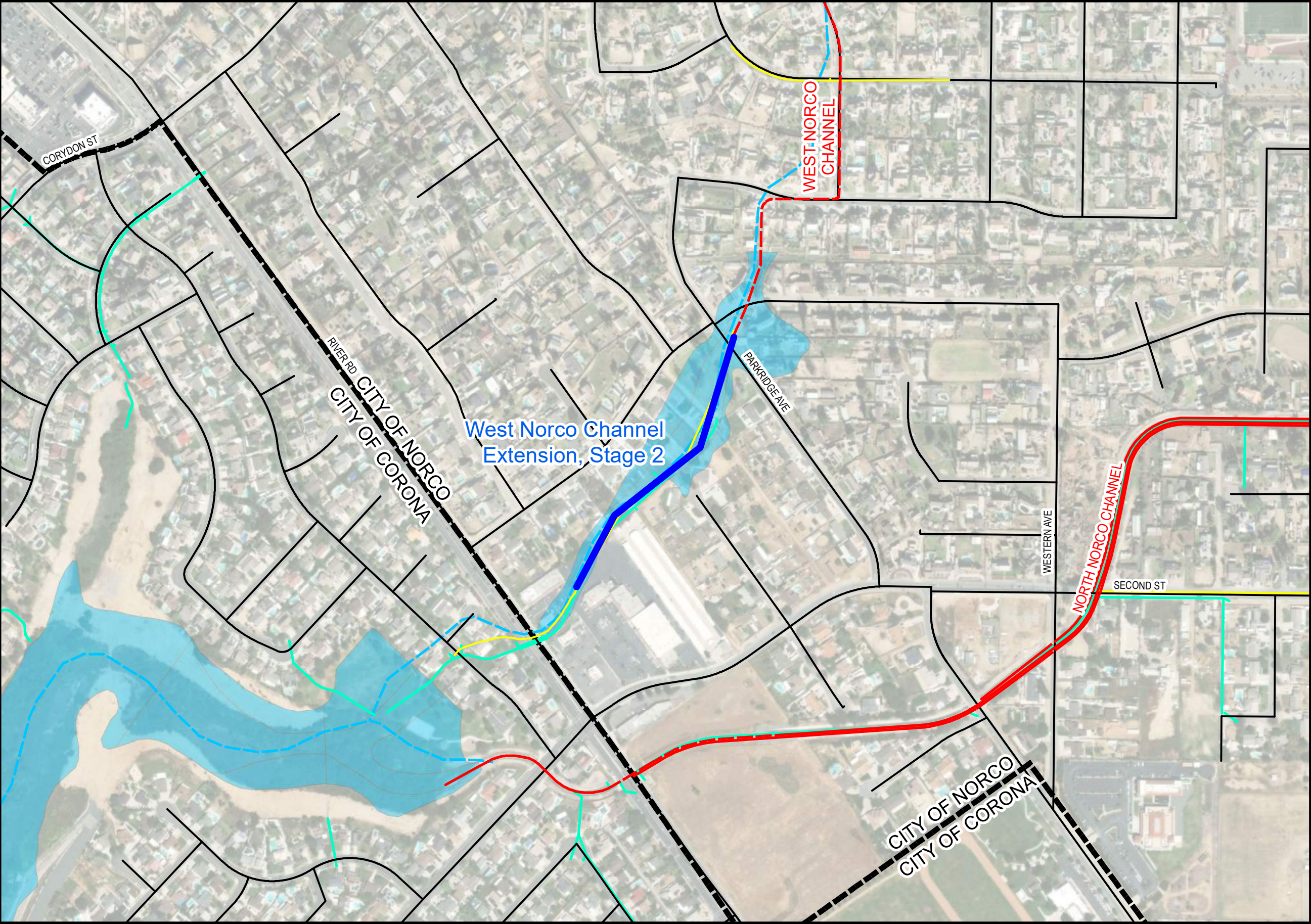
This U.S. Army Corps of Engineers (Corps)-led project has constructed streambank improvements necessary due to the planned increased discharge capacity from the Prado Dam. Construction of Reach 9, Phases 2A and 2B, Mobile Home Levee and BNSF projects are completed but have not been turned over to the District for operation and maintenance. This project is funded as a cost share via Local Cooperative Agreement between the Corps, Riverside County, Orange County, San Bernardino County and Riverside County Transportation Commission. District costs are related to right of way acquisition and utility relocation for the BNSF Bridge Protection project.



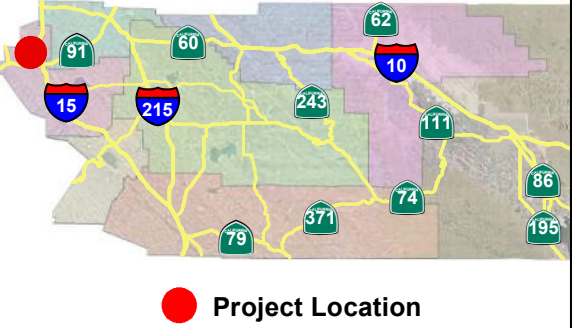








VICINITY MAP



Description

The City of Norco-led project consists of approximately 1,300 feet of 8-foot by 4-foot reinforced concrete box between Parkridge Avenue and River Road. The proposed project extends the West Norco Channel south to an existing 90-inch reinforced concrete pipe privately owned storm drain. The project also proposes to replace the existing dual 57-inch corrugated metal pipe upstream. This project could potentially remove properties from a Federal Emergency Management Agency mapped floodplain. Upon reviewing the project improvement limits in detail, the facility has an undersized downstream outlet. We are currently assessing alternative solutions to address this matter as increasing downstream pipe to adequate size is not feasible as it is under existing residential tracts in the city of Corona.

Legend

- West Norco Channel Extension, Stage 2
  - Other Budgeted CIP Facilities
  - Existing Above Ground District Facilities
  - Existing Below Ground District Facilities
  - Un-budgeted District Facilities
  - City Facilities
  - Natural Flowlines
  - City Boundary
  - FEMA Floodplain
- 0 400 800 Feet



RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
**West Norco Channel Extension, Stage 2**  
Supervisory District 2



Project No.	2-8-00160-02
Engineer	T. Hanson
Date Created	10/8/2024



# ZONE 2

AMILIA FITCH, 2<sup>nd</sup> District  
 FRED MEYERS, 2<sup>nd</sup> District  
 BAXTER MILLER, 2<sup>nd</sup> District

The demand for infrastructure generally outpaces available financial resources leaving many unmet needs.

The district must consider public safety above all else, but also strive to develop the most economical project possible consistent with this obligation.

The available fund balance usually makes up the difference if projected revenue does not cover projected appropriations.



## Fund Balance for FY 2023–2024

JULY 1, 2023 \$89,442,937

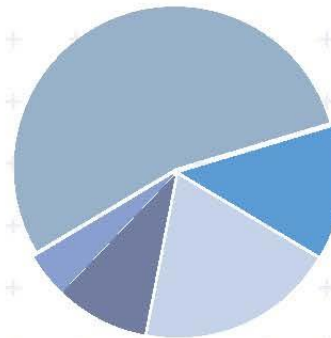
JUNE 30, 2024 \$80,657,791

## Property Taxes (5 years revenue trend)



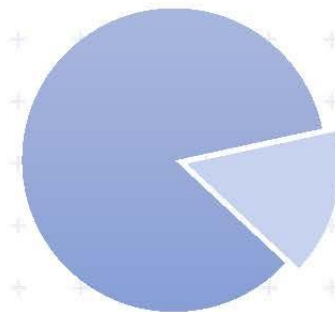
## Uses

(How the money is used)  
**TOTAL \$39,694,000**



## Sources

(Where the money comes from)  
**TOTAL \$30,909,000**





# ZONE 2

AMILIA FITCH, 2<sup>nd</sup> District

FRED MEYERS, 2<sup>nd</sup> District

BAXTER MILLER, 2<sup>nd</sup> District

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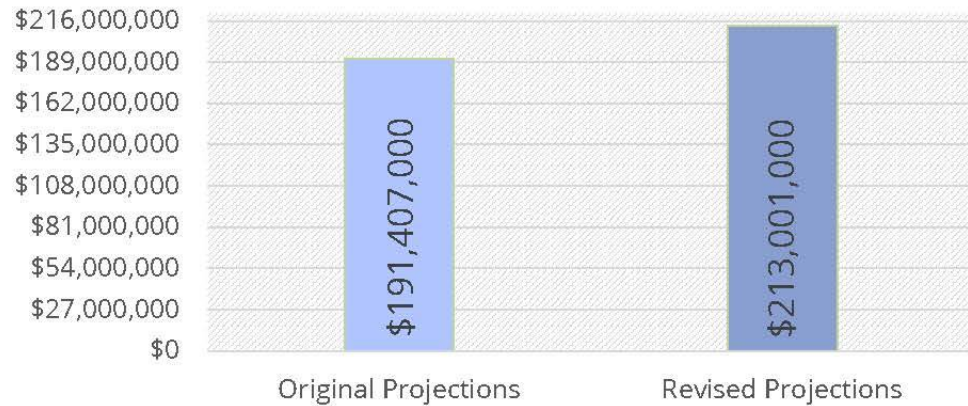
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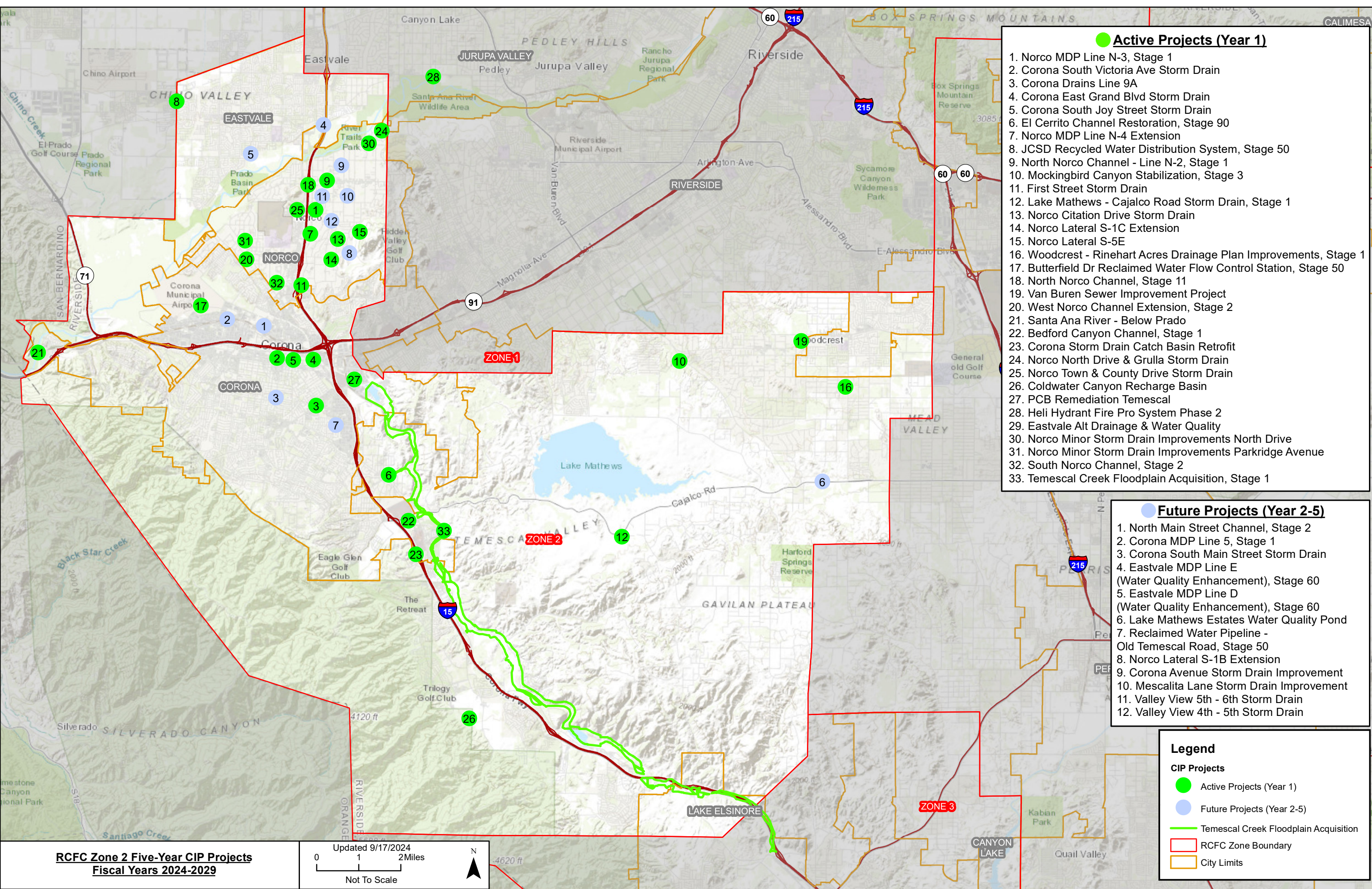
**Forecasting  
FY25-26 thru FY29-30**

## Original Projections vs. Revised Projections Additional Funding Available



**Forecasting \$41,919,000 funding to be available for Cost Increases on Existing Projects and New Requests**





**Active Projects (Year 1)**

1. Norco MDP Line N-3, Stage 1
2. Corona South Victoria Ave Storm Drain
3. Corona Drains Line 9A
4. Corona East Grand Blvd Storm Drain
5. Corona South Joy Street Storm Drain
6. El Cerrito Channel Restoration, Stage 90
7. Norco MDP Line N-4 Extension
8. JCSD Recycled Water Distribution System, Stage 50
9. North Norco Channel - Line N-2, Stage 1
10. Mockingbird Canyon Stabilization, Stage 3
11. First Street Storm Drain
12. Lake Mathews - Cajalco Road Storm Drain, Stage 1
13. Norco Citation Drive Storm Drain
14. Norco Lateral S-1C Extension
15. Norco Lateral S-5E
16. Woodcrest - Rinehart Acres Drainage Plan Improvements, Stage 1
17. Butterfield Dr Reclaimed Water Flow Control Station, Stage 50
18. North Norco Channel, Stage 11
19. Van Buren Sewer Improvement Project
20. West Norco Channel Extension, Stage 2
21. Santa Ana River - Below Prado
22. Bedford Canyon Channel, Stage 1
23. Corona Storm Drain Catch Basin Retrofit
24. Norco North Drive & Grulla Storm Drain
25. Norco Town & County Drive Storm Drain
26. Coldwater Canyon Recharge Basin
27. PCB Remediation Temescal
28. Heli Hydrant Fire Pro System Phase 2
29. Eastvale Alt Drainage & Water Quality
30. Norco Minor Storm Drain Improvements North Drive
31. Norco Minor Storm Drain Improvements Parkridge Avenue
32. South Norco Channel, Stage 2
33. Temescal Creek Floodplain Acquisition, Stage 1

**Future Projects (Year 2-5)**

1. North Main Street Channel, Stage 2
2. Corona MDP Line 5, Stage 1
3. Corona South Main Street Storm Drain
4. Eastvale MDP Line E (Water Quality Enhancement), Stage 60
5. Eastvale MDP Line D (Water Quality Enhancement), Stage 60
6. Lake Mathews Estates Water Quality Pond
7. Reclaimed Water Pipeline - Old Temescal Road, Stage 50
8. Norco Lateral S-1B Extension
9. Corona Avenue Storm Drain Improvement
10. Mescalita Lane Storm Drain Improvement
11. Valley View 5th - 6th Storm Drain
12. Valley View 4th - 5th Storm Drain



# Zone 2 CIP Budget Hearing

December 12, 2024



## **For attendees joining via TEAMS:**

- Please keep your microphone muted until called upon.
- Handouts can be accessed from:
  - [www.rcflood.org/cip](http://www.rcflood.org/cip)



# Flood Control



**Storm Drains, Channels, Levees, Dams**



# *Shared Responsibility for Flood Protection*



- Riverside County Flood
  - Dams, levees
  - Regional channels and storm drains
  
- Cities/County
  - Road culverts
  - Smaller storm drains ( $\leq 36"$ )
  - Catch basins (roadside inlets)
  
- Rural Property Owners/HOAs
  - Other drainage infrastructure
  - Natural washes



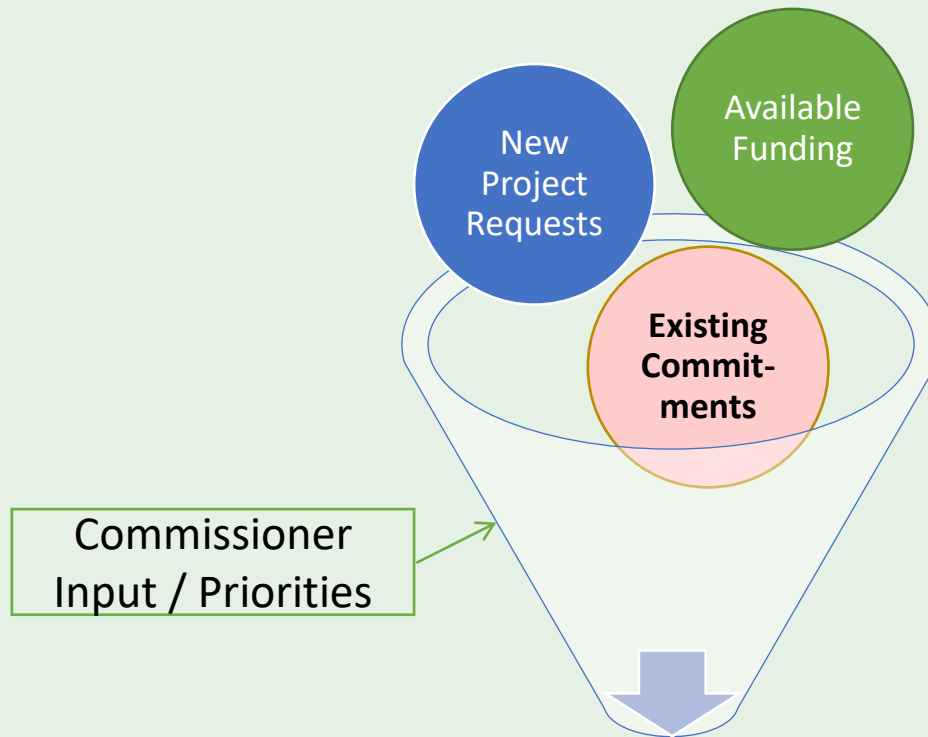


Hearing

New  
Project  
Requests



# Hearing



District Staff Evaluate projects, costs, funding

# Workshop







Available  
Funding

**Darrylenn Prudholme-Brockington**

Chief of Finance



# ZONE 2

AMILIA FITCH, 2<sup>nd</sup> District  
 FRED MEYERS, 2<sup>nd</sup> District  
 BAXTER MILLER, 2<sup>nd</sup> District

The demand for infrastructure generally outpaces available financial resources leaving many unmet needs.

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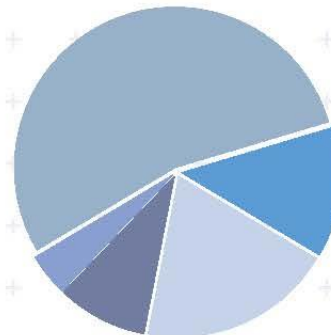
JUNE 30, 2024 \$80,657,791

## Property Taxes (5 years revenue trend)



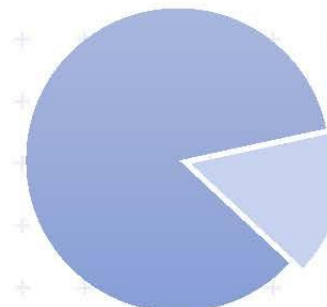
## Uses

(How the money is used)  
**TOTAL \$39,694,000**



## Sources

(Where the money comes from)  
**TOTAL \$30,909,000**





# ZONE 2

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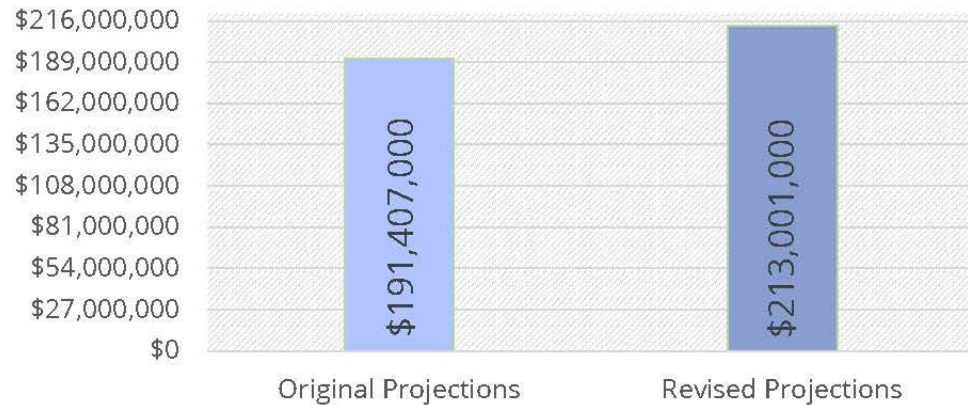
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**Forecasting  
FY25-26 thru FY29-30**

## Original Projections vs. Revised Projections Additional Funding Available




**Projected  
Increase in  
Funding  
\$21,594,000**



**5<sup>th</sup> Year  
Added  
Funding  
\$ 20,325,000**

**Forecasting \$41,919,000 funding to be available for Cost Increases  
on Existing Projects and New Requests**





**Existing  
Commitments**



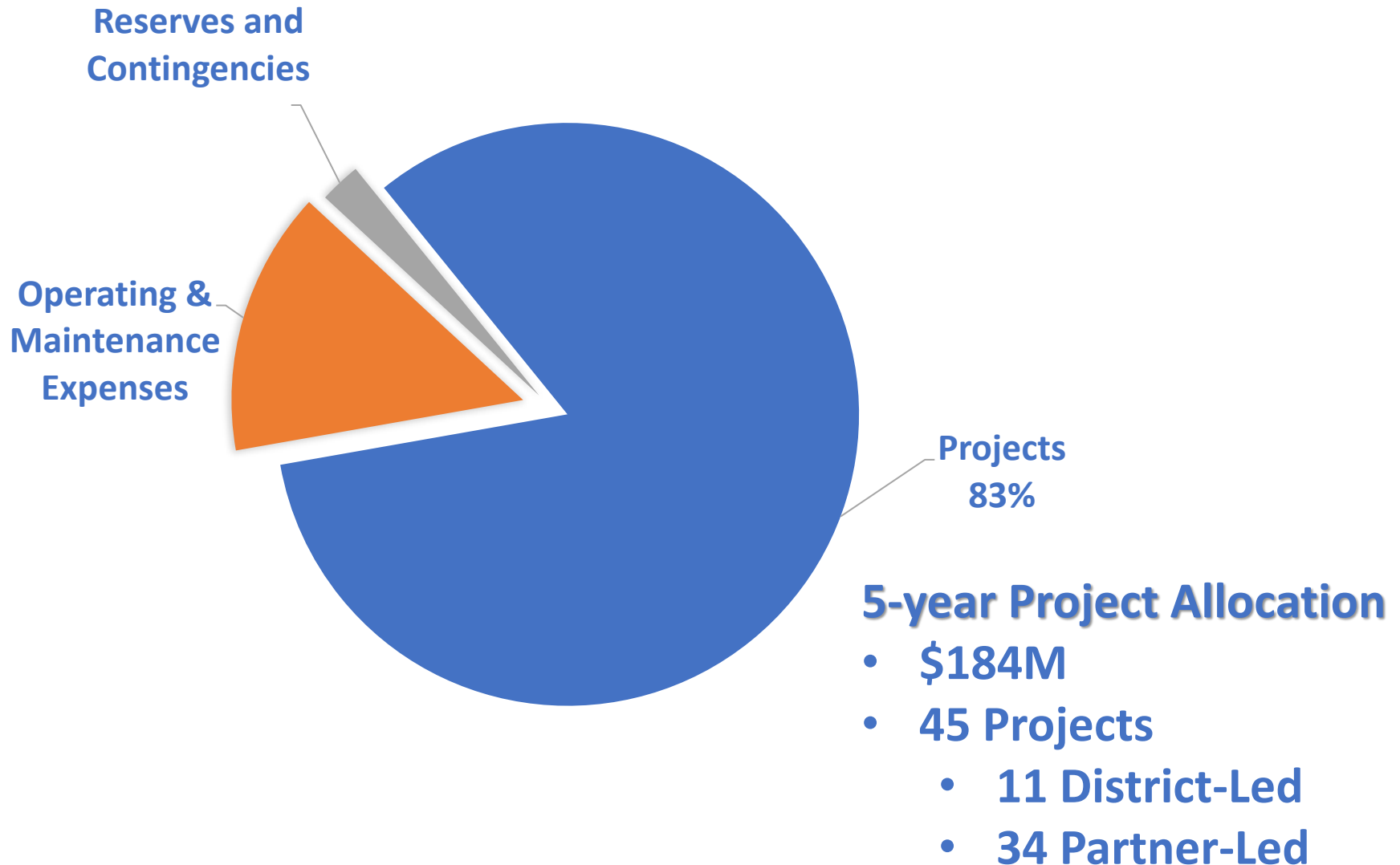
**District Projects**



**Komy Ghods**  
Chief of Design



# 5-Year Allocations per CIP





**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
DISTRICT LED PROJECT SUMMARY - ZONE 2  
FISCAL YEARS 2024-25 THROUGH 2028-29**

Project Number	Stg No.	Project Title	Project Cost	Appropriations		Funding Sources (5-Year Total)			Total NOT
			Total Remaining Cost	FY 2024-25	FY 2026-29	Tax Revenue	ADP Contribution	External Contribution	District Funded
DESIGN & CONSTRUCTION PROJECTS									
2-8-00110	90	EL CERRITO CHANNEL RESTORATION	\$1,106,816	\$1,106,816	\$0	\$1,106,816	\$0	\$0	\$0
2-8-00140	11	NORTH NORCO CHANNEL	3,103,102	3,103,102	0	3,103,102	0	0	0
2-8-00144	01	NORTH NORCO CHANNEL - LINE N-2	5,199,295	60,000	5,139,295	5,199,295	0	0	0
2-8-00180	03	MOCKINGBIRD CYN STABILIZATION	46,363,499	1,986,137	32,720,638	33,522,490	1,184,285	0	(11,656,724) <sup>1</sup>
2-8-00253	01	BEDFORD CANYON CHANNEL	10,143,309	3,795,254	6,348,055	10,143,309	0	0	0
2-8-00406	01	WOODCREST RINEHART ACRES DRAIN	12,358,897	6,374,208	5,984,689	11,159,749	0	1,199,148	0
DESIGN & CONSTRUCTION PROJECTS			\$78,274,918	\$16,425,517	\$50,192,677	\$64,234,761	\$1,184,285	\$1,199,148	(\$11,656,724)
PLANNING PROJECTS									
2-8-00050	00	PCB REMEDIATION TEMESCAL	\$594,731	\$444,731	\$0	\$444,731	\$0	\$0	(\$150,000) <sup>2</sup>
2-8-00052	01	TEMESCAL CREEK FLOOD PLAIN AQ	14,400,000	600,000	600,000	1,200,000	0	0	(13,200,000) <sup>1</sup>
2-8-00095	01	LAKE MATTHEWS CAJALCO ROAD SD	2,791,569	368,438	2,423,131	2,791,569	0	0	0
2-6-10000	00	FLOOD CONTROL BASN RETRO STUDY	400,000	0	400,000	400,000	0	0	0
2-8-09058	00	LK MATHWS ESTATE WTR QLTY POND	7,703,719	0	7,703,719	7,703,719	0	0	0
PLANNING PROJECTS			\$25,890,019	\$1,413,169	\$11,126,850	\$12,540,019	\$0	\$0	(\$13,350,000)
ZONE 2 DISTRICT LED PROJECT TOTALS			\$104,164,937	\$17,838,686	\$61,319,527	\$76,774,780	\$1,184,285	\$1,199,148	(\$25,006,724)

1 - District unfunded balance

2 - Cost share - Funded by third party

**FIVE-YEAR CIP SUMMARY**

<b>FUND BALANCE FORWARD - JULY 1, 2024:</b>	<b>\$76,916,588</b>
<b>REVENUE:</b>	
Taxes	\$140,288,073
Interest	\$4,911,721
Rental	\$1,500
<b>Subtotal Revenue</b>	<b>\$145,201,294</b>
External Contribution	\$1,199,148
<b>Total Five Year Revenue</b>	<b>\$146,400,442</b>
<b>Total Funds Available</b>	<b>\$223,317,030</b>

<b>APPROPRIATIONS:</b>	
District Led Project Appropriations	\$79,158,213
Partner Led Project Appropriations	\$104,265,652
Miscellaneous Watershed Protection Projects	\$500,000
Capital Project Cost Inflation	\$2,374,746
Operating & Maintenance Expenses	\$32,451,378
Contingencies	\$2,674,140
ADP Refund - Lake Mathews ADP to MWD	\$5,000
<b>Total Five Year Appropriations</b>	<b>\$221,429,129</b>
<b>ENDING FUND BALANCE - JUNE 30, 2029:</b>	<b>\$1,887,901</b>

Existing Commitments



RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
PARTNER LED PROJECT SUMMARY - ZONE 2  
FISCAL YEARS 2024-25 THROUGH 2028-29

Project Number	Stg No.	Project Title	Project Cost	Appropriations				Funding Sources			Total NOT District Funded
			Total Remaining Cost	FY 2024-25		FY 2026-29		5-Year Total			
				District Direct Cost	Contribution to Partner Agency	District Direct Cost	Contribution to Partner Agency	Tax Revenue	ADP Contribution	External Contribution	
PARTNER LED CONTRIBUTION PROJECTS											
2-6-10018	50	JCSD RECYCLED WATER DIST SYST	\$67,124,038	\$0	\$10,435,665	\$0	\$10,464,335	\$20,900,000	\$0	\$0	(\$46,224,038) <sup>2</sup>
2-6-10027	00	NORCO MDP LN N-4 EXTENSION	511,671	66,740	444,931	0	0	511,671	0	0	0
2-6-10029	50	BUTTERFELD DR RECL WTR FLW STN	4,313,354	102,000	3,956,354	0	0	4,058,354	0	0	(255,000) <sup>2</sup>
2-6-10031	00	CORONA SOUTH JOY ST SD	1,469,000	0	54,545	39,000	1,375,455	1,469,000	0	0	0
2-6-10032	00	CORONA EAST GRAND BLVD SD	1,941,000	0	91,818	51,000	1,798,182	1,941,000	0	0	0
2-6-10038	00	N NORCO DR & GRULLA SD(SUB SD)	1,841,000	51,000	1,790,000	0	0	1,841,000	0	0	0
2-6-10040	00	EASTVALE ALT DRAINAGE & WQ	150,000	0	150,000	0	0	150,000	0	0	0
2-6-10042	00	VAN BUREN SEWER IMPROVMNT PROJ	16,789,755	0	5,015,000	0	0	5,015,000	0	0	(11,774,755) <sup>2</sup>
2-6-10043	00	NORCO TOWN & COUNTRY DRIVE SD	299,940	26,340	273,600	0	0	299,940	0	0	0
2-6-10044	00	NORCO MINOR SD IMPR PARKRDGE	379,750	9,750	370,000	0	0	379,750	0	0	0
2-6-10045	00	CORONA SD CATCH BASIN RETROFIT	2,020,000	0	1,000,000	0	0	1,000,000	0	0	(1,020,000) <sup>2</sup>
2-6-10046	00	CORONA SOUTH VICTORIA AVE SD	1,469,000	0	64,545	39,000	1,365,455	1,469,000	0	0	0
2-6-10047	00	CORONA DRAINS LINE 9A	3,812,000	0	300,000	102,000	3,410,000	3,812,000	0	0	0
2-6-10050	00	FIRST STREET STORM DRAIN	162,000	0	162,000	0	0	162,000	0	0	0
2-6-10051	00	NORCO CITATION DRIVE STORM DRN	58,650	7,650	51,000	0	0	58,650	0	0	0
2-6-10052	00	NORCO LATERAL S-1C EXTENSION	1,120,450	30,450	1,090,000	0	0	1,120,450	0	0	0
2-6-10053	00	NORCO LATERAL S-5E	1,164,650	31,650	1,133,000	0	0	1,164,650	0	0	0
2-6-10055	00	COLDWATER CYN RCHRG BSN STUDY	500,000	0	250,000	0	0	250,000	0	0	(250,000) <sup>2</sup>
2-6-10056	00	HELI HYDRANT FIRE PRO SYS PH 2	1,026,000	0	513,000	0	0	513,000	0	0	(513,000) <sup>2</sup>
2-6-09113	00	CORONA AVE SD IMPROV	1,120,000	0	0	0	1,120,000	1,120,000	0	0	0
2-6-09114	00	MESCALITA LANE SD IM	201,000	0	0	0	201,000	201,000	0	0	0
2-6-09115	00	VALLEY VIEW 5-6TH SD	1,060,000	0	0	0	1,060,000	1,060,000	0	0	0
2-6-09116	00	VALLEY VIEW 4-5TH SD	1,120,000	0	0	0	1,120,000	1,120,000	0	0	0
2-6-10003	50	RECLMD WTR PIPLN OLD TEMSC RD	1,000,000	0	0	0	500,000	500,000	0	0	(500,000) <sup>2</sup>
2-6-10033	00	CORONA SOUTH MAIN STREET SD	3,915,000	0	0	105,000	3,810,000	3,915,000	0	0	0
2-6-10049	00	NORCO LATERAL S-1B EXTENSION	667,440	0	0	19,440	648,000	667,440	0	0	0
PARTNER LED CONTRIBUTION PROJECTS			\$115,235,698	\$325,580	\$27,145,458	\$355,440	\$26,872,427	\$54,698,905	\$0	\$0	(\$60,536,793)
PARTNER LED CAPITAL IMPROVEMENT PROJECTS											
2-8-00086	01	NORCO MDP LINE N-3	\$2,774,186	\$149,186	\$2,625,000	\$0	\$0	\$2,774,186	\$0	\$0	\$0
2-8-00105	00	SANTA ANA BELOW PRADO	10,310,000	10,000	10,300,000	0	0	10,310,000	0	0	0
2-8-00150	02	SOUTH NORCO CH	23,082,725	872,986	752,500	701,321	20,755,918	23,082,725	0	0	0
2-8-00160	02	WEST NORCO CHANNEL STAGE 2	2,564,800	49,931	0	114,869	2,400,000	2,564,800	0	0	0
2-8-00060	02	NORTH MAIN STREET CHANNEL	5,486,365	0	0	193,548	5,292,817	5,486,365	0	0	0
2-8-00280	01	CORONA MDP LINE 5 STG 1	3,731,954	0	0	221,954	3,510,000	3,731,954	0	0	0
2-8-00304	60	EASTVALE MDP LINE D WQ	1,078,839	0	0	246,998	831,841	1,078,839	0	0	0
2-8-00310	60	EASTVALE MDP LINE E WQ	537,878	0	0	128,663	409,215	537,878	0	0	0
PARTNER LED CAPITAL IMPROVEMENT PROJECTS			\$49,566,747	\$1,082,103	\$13,677,500	\$1,607,353	\$33,199,791	\$49,566,747	\$0	\$0	\$0
ZONE 2 PARTNER LED PROJECT TOTALS			\$164,802,445	\$1,407,683	\$40,822,958	\$1,962,793	\$60,072,218	\$104,265,652	\$0	\$0	(\$60,536,793)

1 - District unfunded balance

2 - Cost share - Funded by third party

Existing Commitments



**Zone 2**  
**Report to the Zone Commissioners**  
By Jason E. Uhley, General Manager-Chief Engineer  
November 2024

The District maintains a 5-year Capital Improvement Plan (CIP) which identifies projects that the District intends to fund over a 5-year period. Information on our overall CIP can be viewed at <https://rcflood.org/cip>.

This report has been prepared by District staff to provide a status update on CIP projects that are either completed or otherwise expected to be active during the current fiscal year.

## Completed Projects

These projects were recently completed and will not show on future updates to our 5-year CIP.

### Norco Elementary School Storm Drain, Stage 0 (2-6-10048-00)

This was a City of Norco-led project to reduce street and community flooding. It consisted of 1,500 feet of 24-inch to 36-inch storm drain pipe that collects flows along Temescal Avenue and Norco Elementary School and conveys them to South Norco Channel Line SA. The City of Norco is responsible for operation and maintenance of the facility. This project was funded by the District.

The project has been completed, and a Notice of Completion was filed in January 2024.

### Norco MDP Lateral NA-6, Stage 0 (2-6-10054-00) [formerly Norco - Fifth Street Storm Drain, Stage 1 (2-8-00087-01)]

This was a City of Norco-led project that installed approximately 2,700 feet of 42-inch to 48-inch reinforced concrete pipe in Corona Avenue, 5<sup>th</sup> Street and Temescal Avenue that alleviated flooding on the private properties between Temescal Avenue and Corona Avenue. Flows are conveyed from Fifth Street and outlet into existing North Norco Channel Line NA. The City of Norco is responsible for operation and maintenance of the facility. This project was funded by the District.

The project has been completed, and a Notice of Completion was filed in February 2024.

### Norco MDP Line S-2, Stage 1 (2-8-00164-01)

This was a City of Norco-led project that provided flood protection to properties along Second Street. The project consisted of approximately 2,700 feet of reinforced concrete pipe (18-inch to 40-inch) along Hillside Avenue and conveys flows to the existing South Norco Channel, west of Corona Avenue. The City of Norco is responsible for operation and maintenance of the facility.

This project was funded by the District. The project has been completed, and Notice of Completion was filed in January 2024.

### El Cerrito Channel Restoration, Stage 90 (2-8-00110-90)

This was a District-led project that replaced approximately 2,300 feet of existing concrete trapezoidal channel with higher capacity reinforced concrete box and concrete rectangular channel of varying dimensions. The primary objective was to provide 100-year flow capacity within the proposed facility and remove the existing Federal Emergency Management Agency (FEMA) floodplain. The project collects flows from two existing storm drain systems at the El Cerrito Road-Temescal Canyon



# Active Projects

Design and Construction

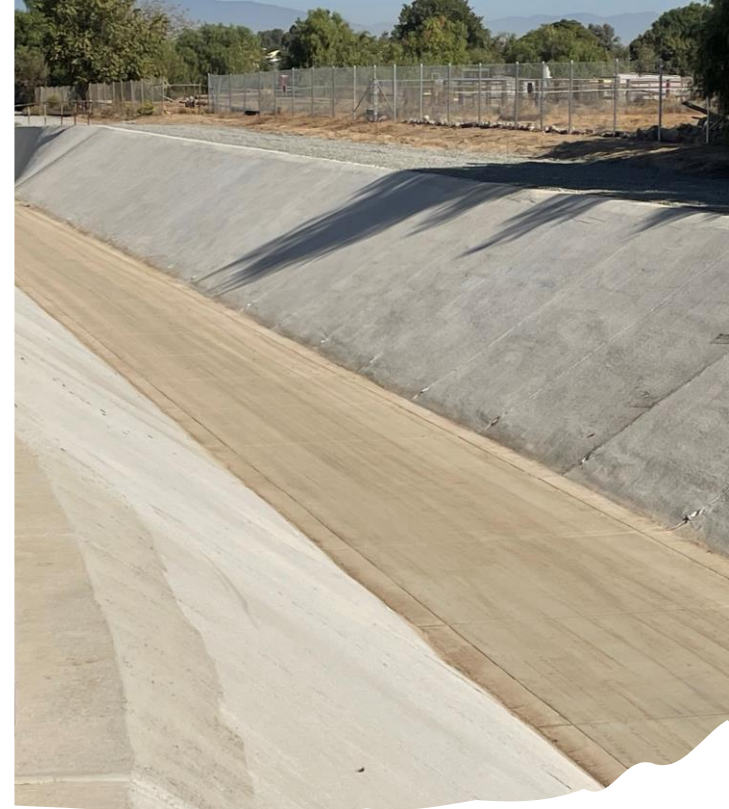


# El Cerrito Channel (2-8-00110)

\$4.7M  
COMPLETED





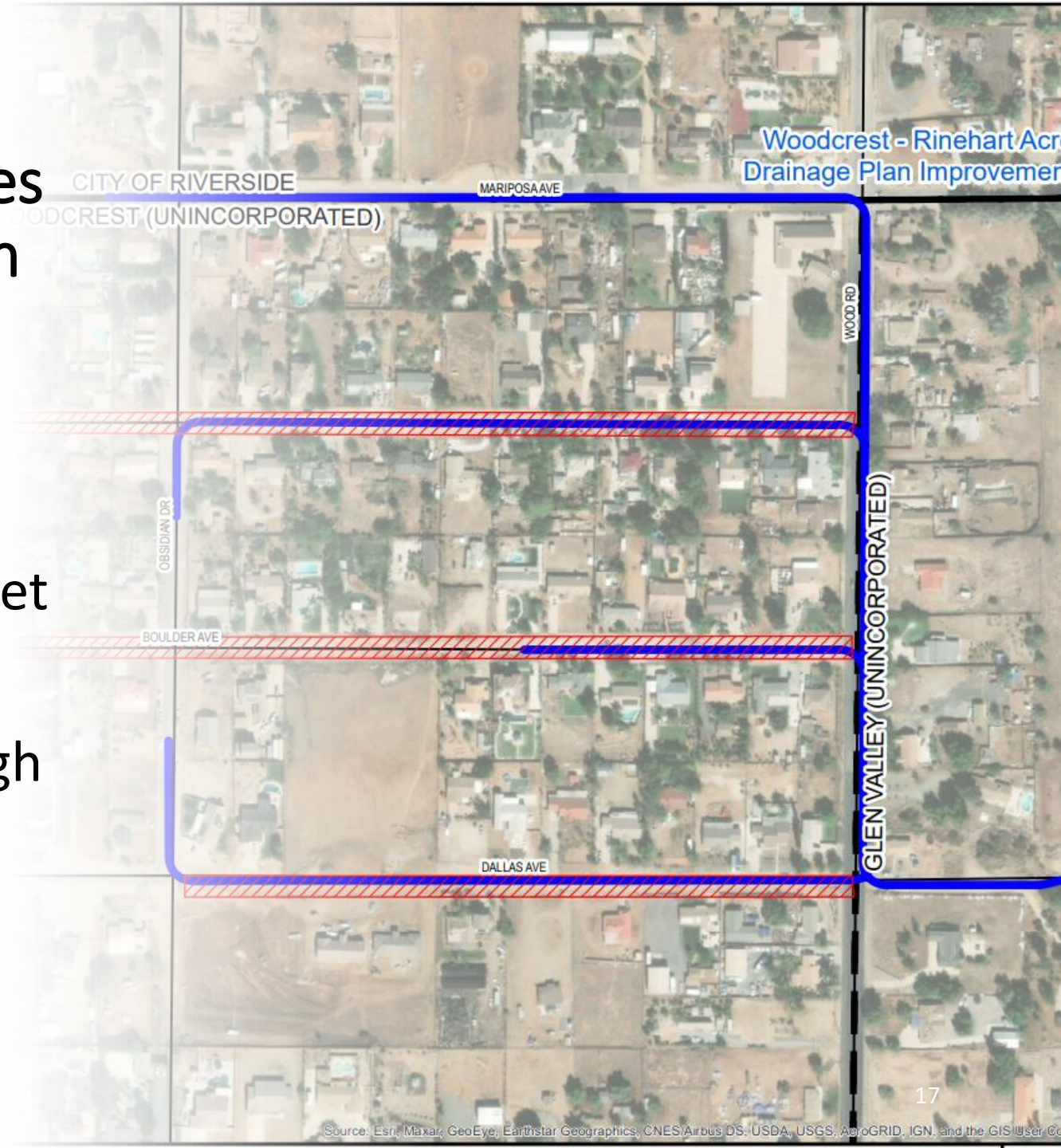


North Norco  
Channel Stg 11  
(2-8-00140)  
\$12M COMPLETED



# Woodcrest Rinehart Acres Drainage Plan (2-8-00406)

- \$12.1M
- Storm and Street improvements to reduce flooding through community
- AWARDED







# Mockingbird Canyon Stabilization (2-8-00180)

- \$61M Project
- Protects Mockingbird Canyon road and adjacent residents.
- Advertise in 2026



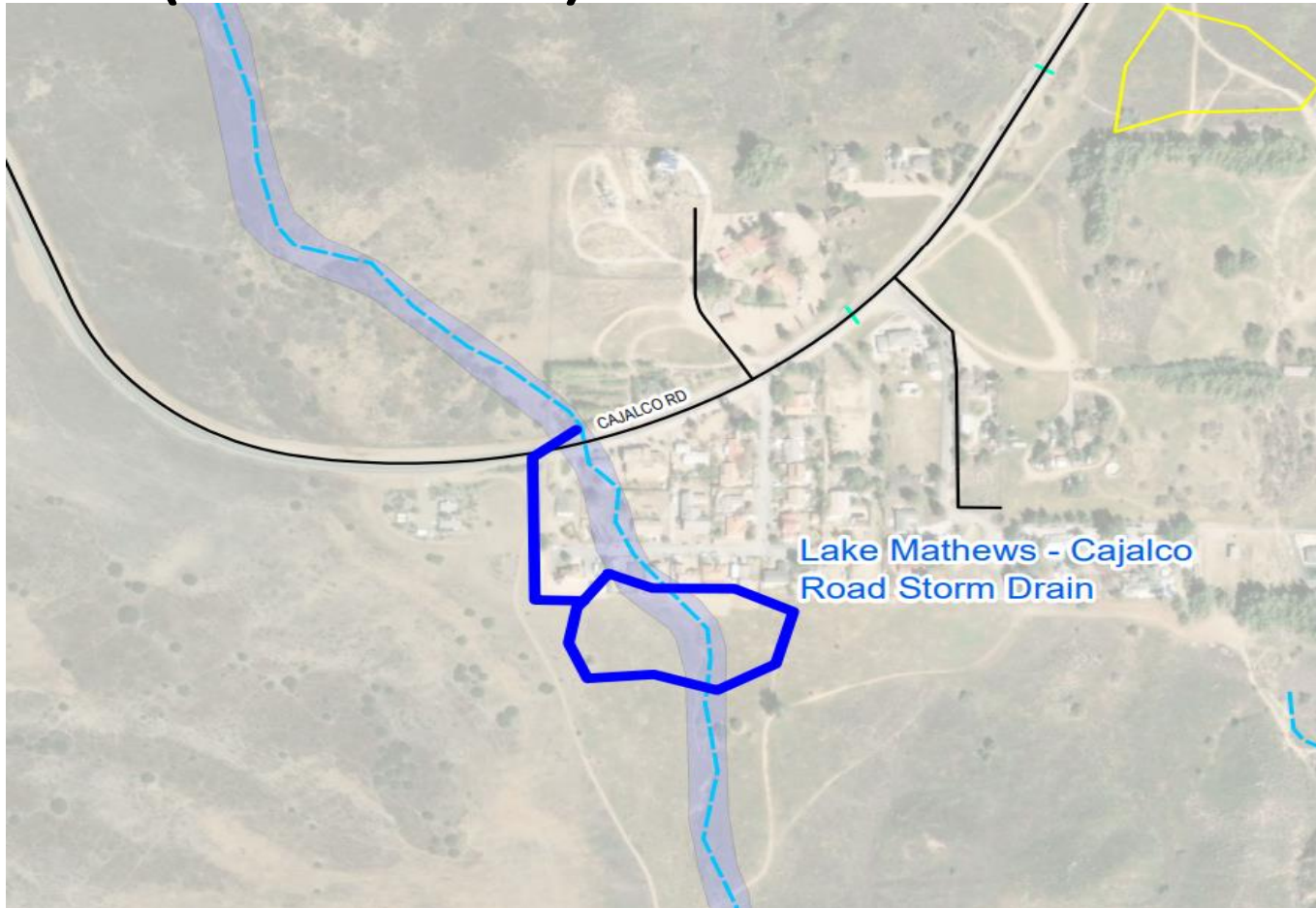
# Bedford Canyon Channel Stabilization (2-8-00253)

- \$9M
- Design Plans are being finalized
- Advertise 2025





# Cajalco Road Storm Drain (2-8-00095)





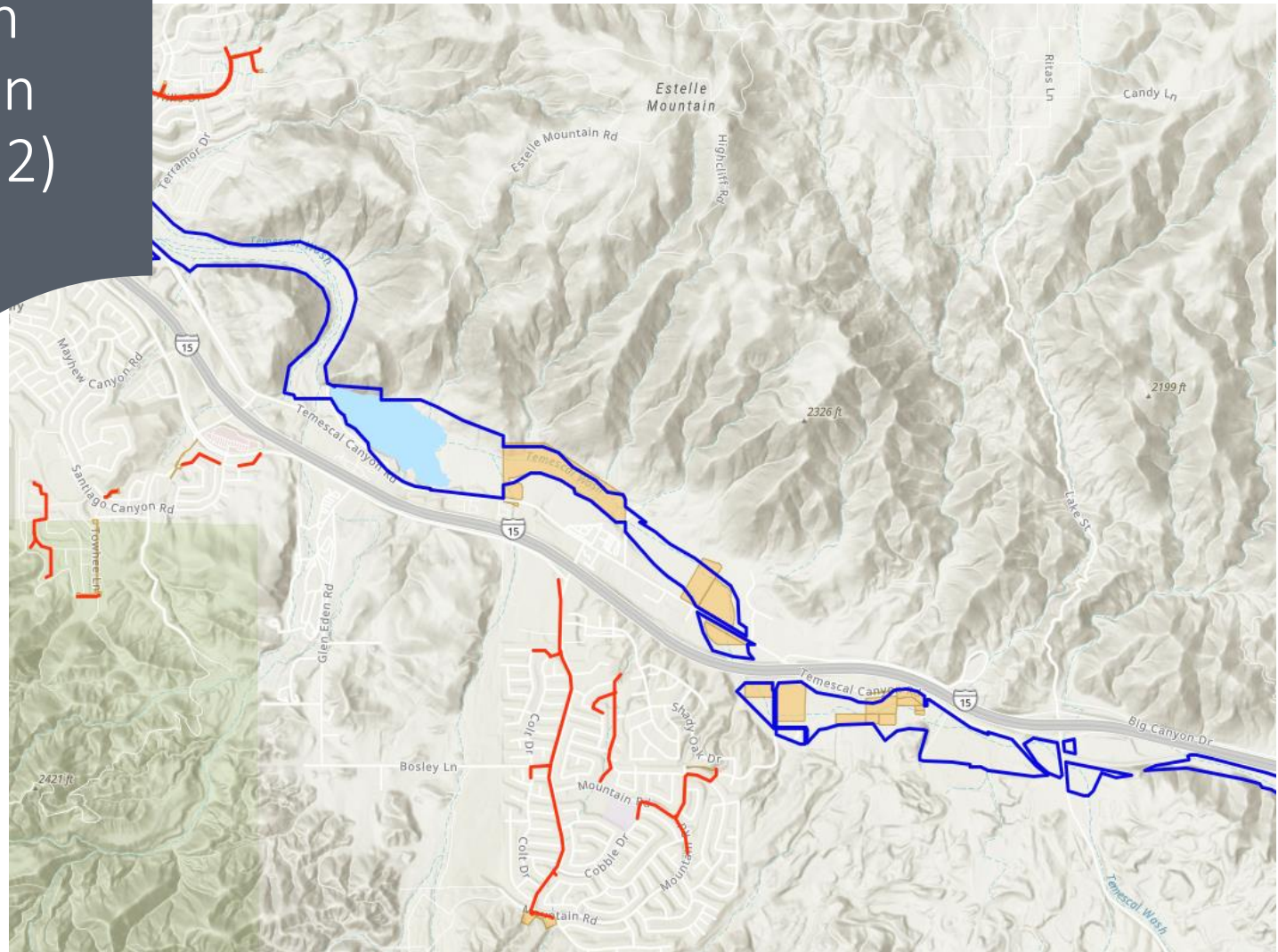
# PCB REMEDIATION TEMESCAL CREEK CHANNEL (2-8-00050)

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# Temescal Wash Floodplain Acquisition (2-8-00052)







**Existing  
Commitments**



**Partner Projects**



**Rohini Mustafa**  
Chief of Planning





# Partner Projects



- \$104M Total Existing Allocation
- 34 Projects



# Completed Partner Led Projects in 2024

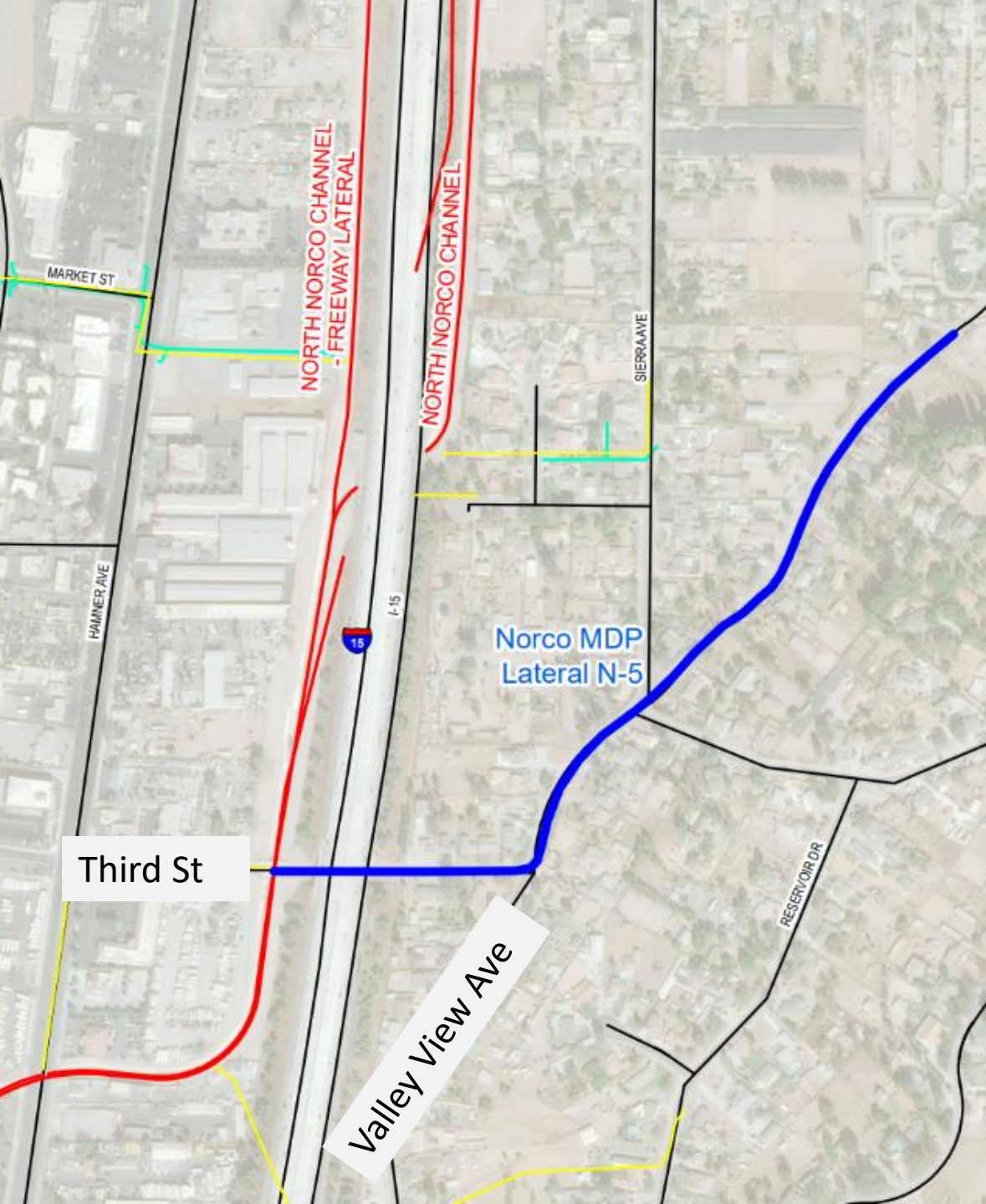
- Norco Elementary School SD|2-6-10048  
✓ *NOC Jan 2024*
- Norco MDP Line S-2|2-8-00164-01  
✓ *NOC Jan 2024*
- Norco MDP Lateral NA-6 2-6-10054  
✓ *NOC Feb 2024*
- Norco N-1C EXT|2-6-10035  
✓ *NOC July 2024*
- First Street SD|2-6-10050  
✓ *NOC Aug 2024*
- Norco N-1G|2-6-10034  
✓ *Final Invoice being processed*





# Active Projects

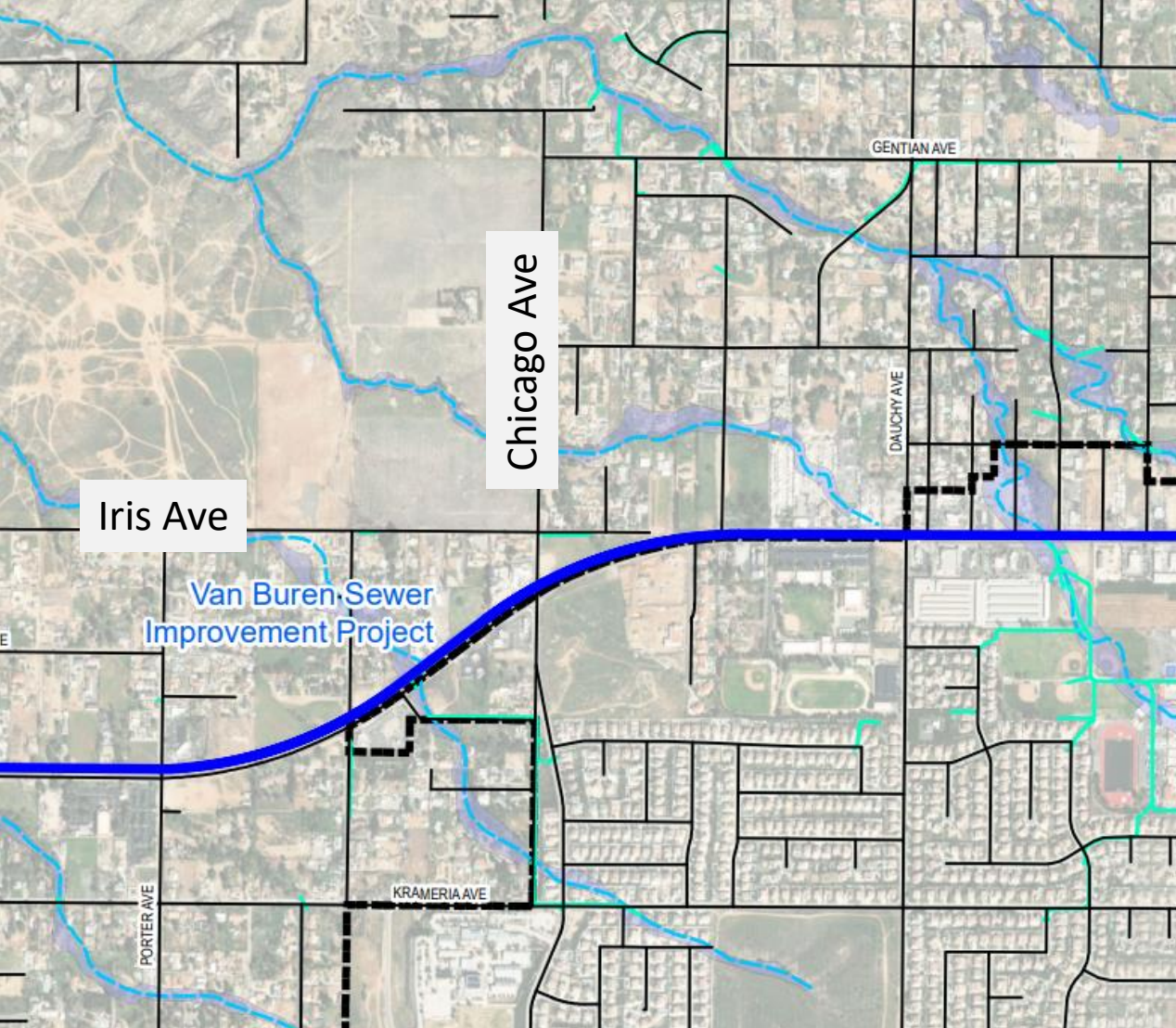




## Norco MDP Lateral N-5 2-6-10048

- City of Norco-led project
- 2,600 LF of underground storm drain
- Along Valley View Avenue near Third Street
- Project NOC expected in Feb 2025

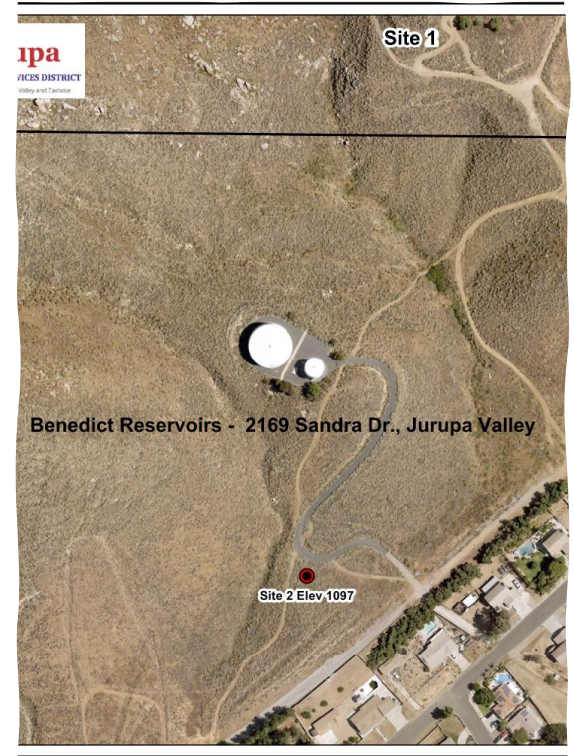




Van Buren Sewer Improvement  
2-6-10042

Project Completion:  
March 2025





# HELI HYDRANT FIRE PROTECTION SYSTEM PHASE 2 | 2-6-10056

Construction: Early 2025



- Higher Estimate for Construction
- Total Additional Request: \$1,275,162 (New Total: \$5,333,516)

Butterfield Dr Reclaimed Water  
Flow Control Station, Stage 50

Butterfield Dr Reclaimed Water Flow Control Station  
2-6-10029-50



1300LF of storm drain to alleviate flooding which impacts access to DMV

Construction Bid: Q1 2025

Additional Funding needed for utility relocation: \$222K

New Total: \$1.198M

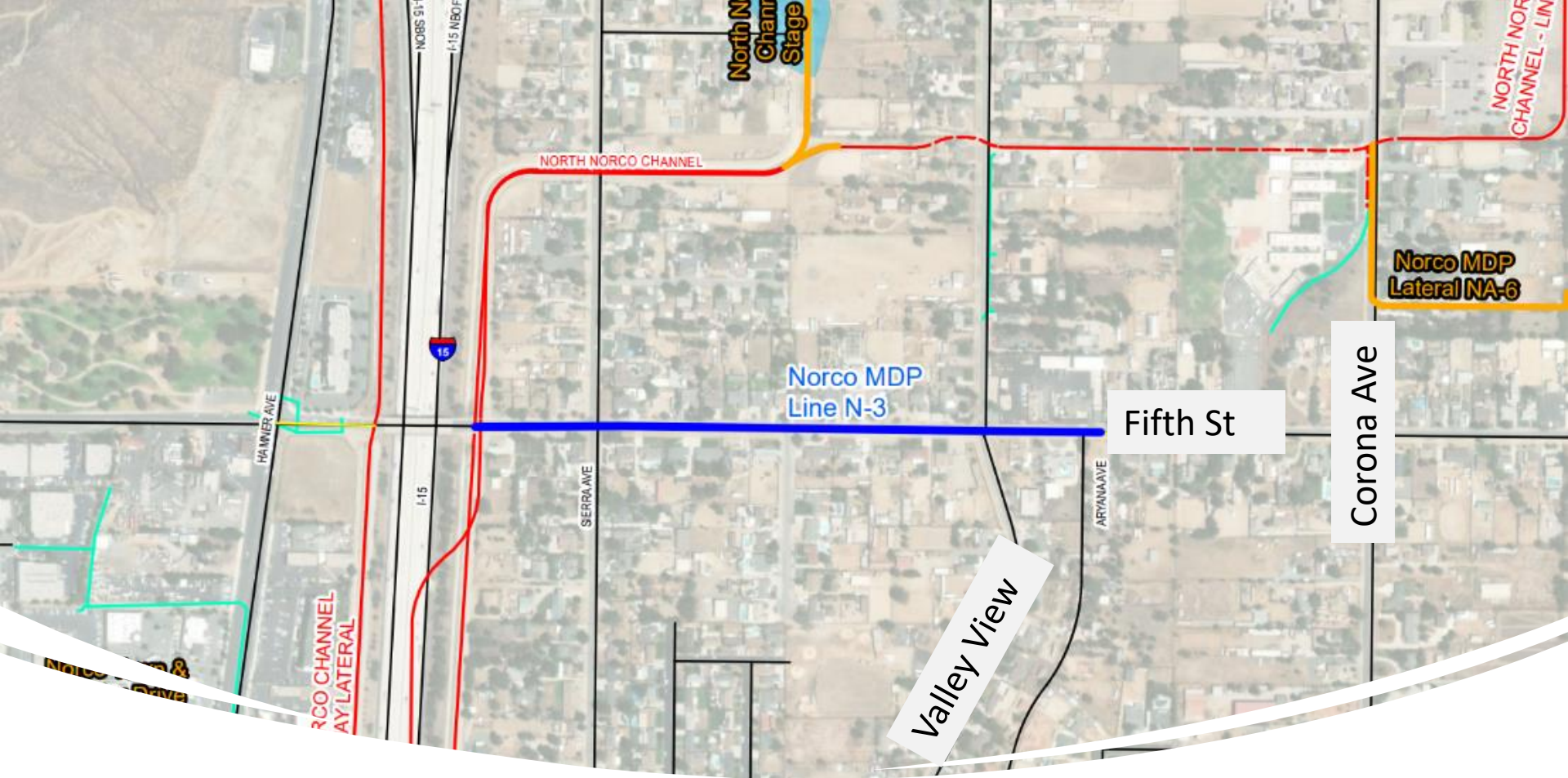
Norco Town & Country  
Drive Storm Drain

Hamner Ave

NORTH NORCO CHANNEL  
- FREEWAY LATERAL

Norco Town and Country Drive  
2-6-10043





# Norco MDP Line N-3 2-8-00086-01

- City of Norco-led project
- 2,100 LF of underground storm drain along Fifth Street
- Additional \$375K for sewer relocations, design revisions and 18" lateral extension along Valley View
- New Total: \$3M
- Construction Bid: Late 2025



South  
Norco  
Channel,  
Stg 2  
2-8-00150-  
02

South Norco Channel

First St

Hamner Ave





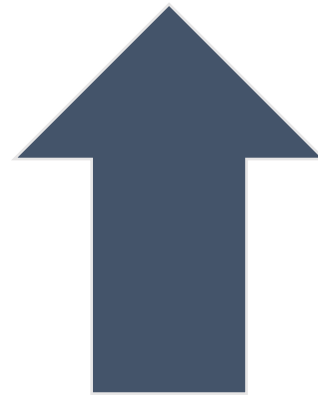
New Project  
Requests



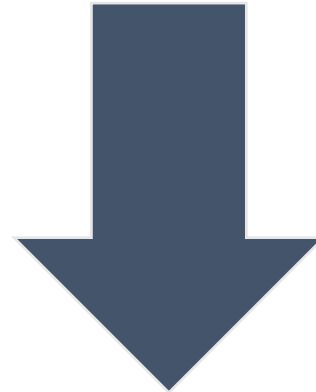
**Public Input**



Recent Activity  
and Trends



Demand



Supply

- Construction Costs
  - 8-10% increase
  - Approximately \$6M in inflation



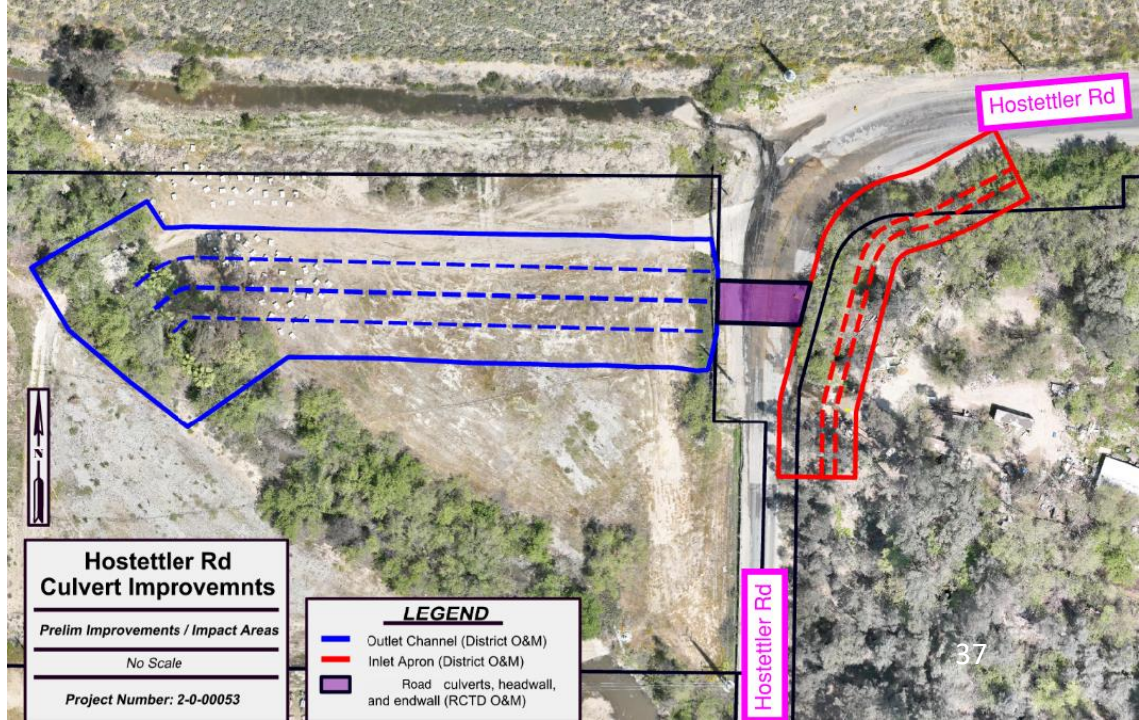
# Additional Funding Requests Received to Date: **\$53.6M**

## Funding Available: **\$41.9M**

District Partially Unfunded \$39.2M	Corona \$6.6M	JCSD \$400K	Norco \$2.35M	TVWD \$6.21M
<ul style="list-style-type: none"> <li>Hostettler Road (New) <b>\$1.7M -yes</b></li> <li>Mockingbird Canyon Stabilization (Partially Funded) <b>\$31M -25.3M</b></li> <li>Inflation and scope changes (Rough) <b>\$6M - yes</b></li> </ul>	<ul style="list-style-type: none"> <li>Corona Downtown Storm Drain (Swap+\$1.2M) <b>\$1.2M -yes</b></li> <li>AMI Meter Replacement (Previously requested) <b>\$3M -no</b></li> <li>Butterfield Recl Wtr Flow <b>\$1.28M -yes</b></li> <li>South Victoria Ave SD (2024 Co-op Ag \$1.43M) <b>\$474K -no</b></li> </ul>	<ul style="list-style-type: none"> <li>Smart Irrigation (Previously requested) <b>\$400K -no</b></li> </ul>	<ul style="list-style-type: none"> <li>Hillside Ave SD (New) <b>\$1.75M -yes</b></li> <li>Norco Town &amp; Country Dr (Scope) <b>\$222K -yes</b></li> <li>Norco N-3 (Scope) <b>\$375K -yes</b></li> </ul>	<ul style="list-style-type: none"> <li>Potable Water Supply Redundancy (New) <b>\$2.1M - no</b></li> <li>Water Conservation Project (New) <b>\$780K -yes</b></li> <li>Regional Lift Station (New) <b>\$3.33M -yes</b></li> </ul>

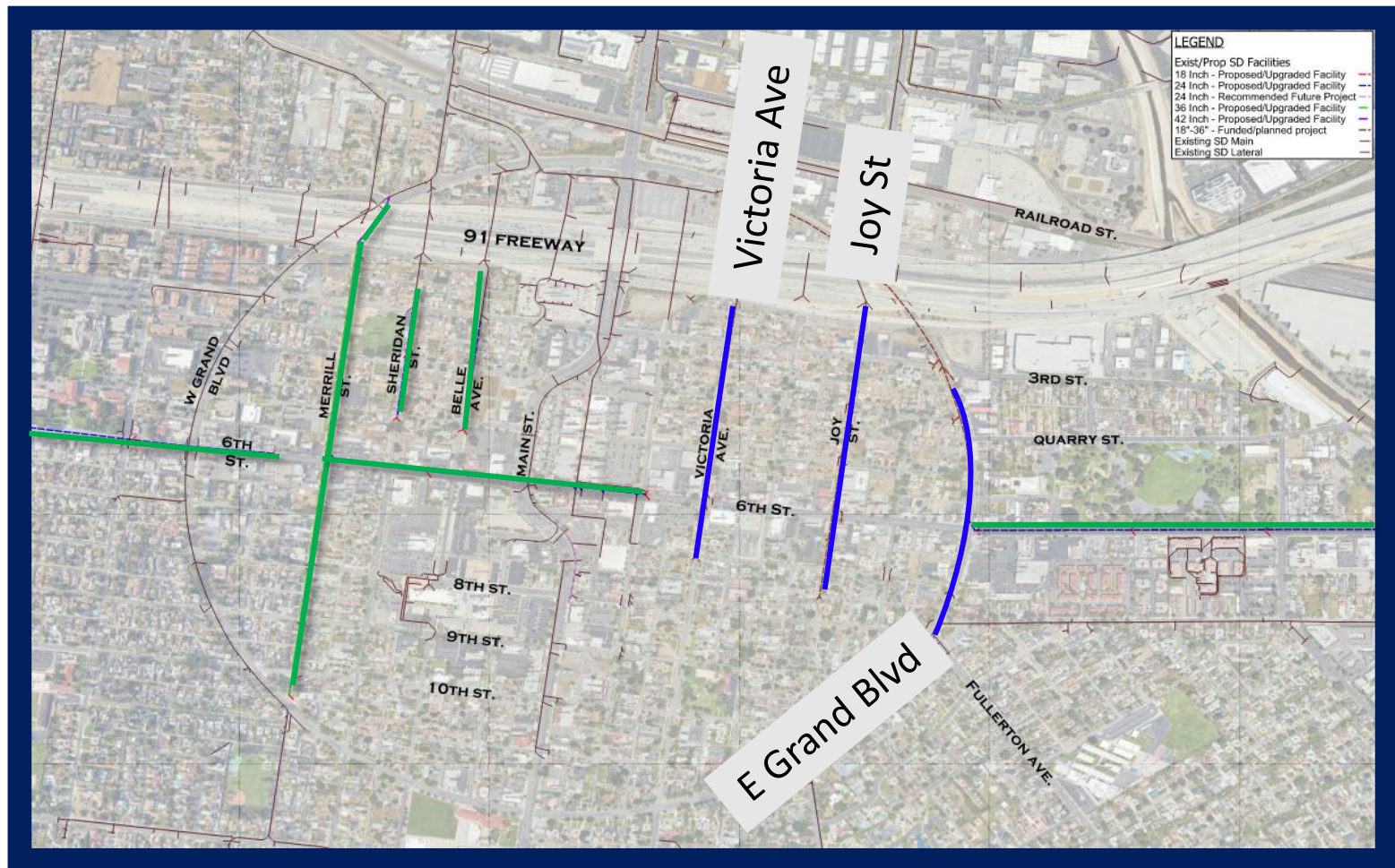


Temescal  
Wash  
Hostettler Rd  
Improvement  
2-8-00053  
(\$1.7M)





# Corona Downtown Storm Drain Improvements 2-8-09118 (\$10.3M)

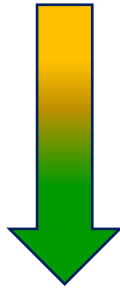




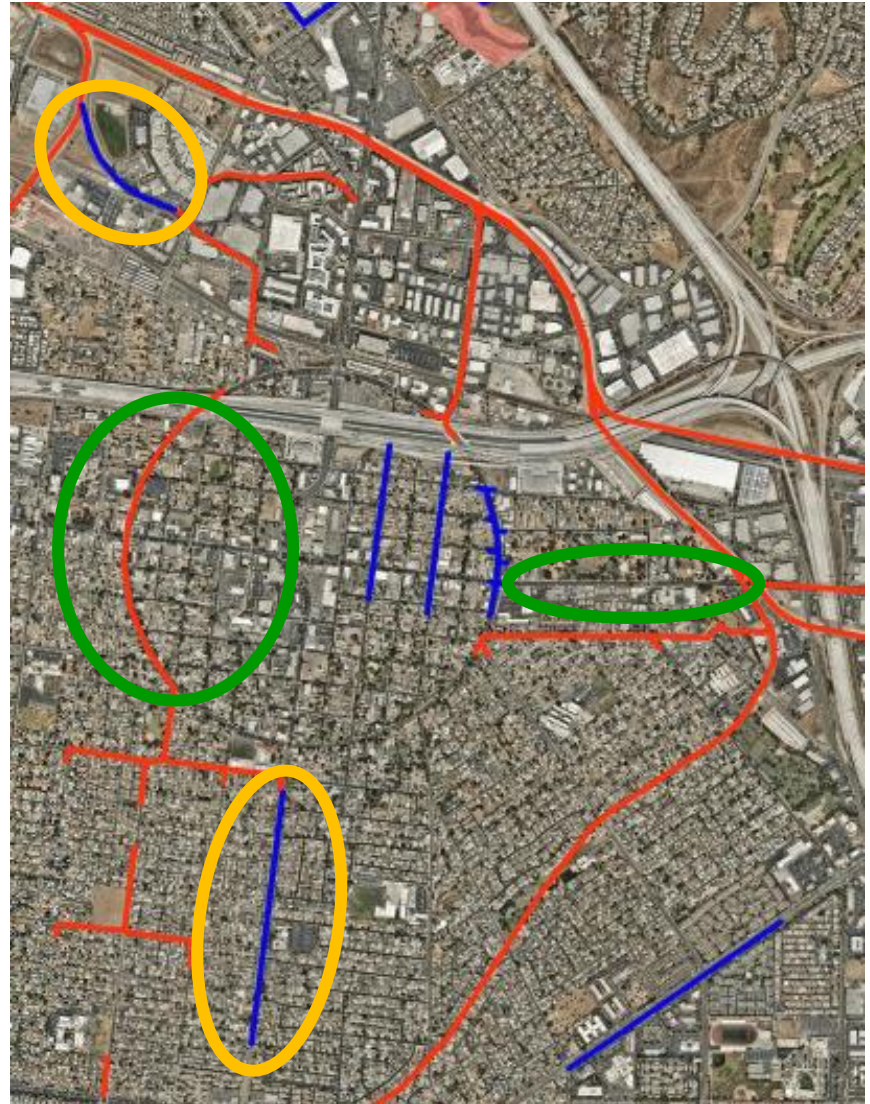
## Corona Downtown Storm Drain Improvements (\$10.3M)

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- Corona North Main Street 2-8-0060 (\$5.3M)
- Corona South Main Street 2-6-10033 (\$3.8M)



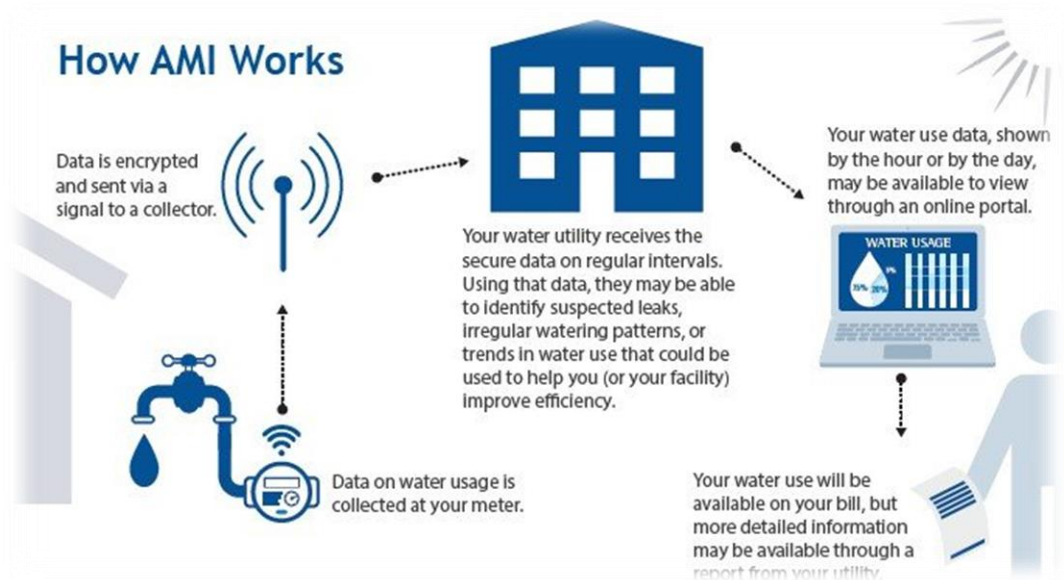
- Corona Downtown Storm Drain Improvements (\$10.3M)
  - Requires additional \$1.2M





# City of Corona AMI Meter Replacement 2-6-09102

\$3M

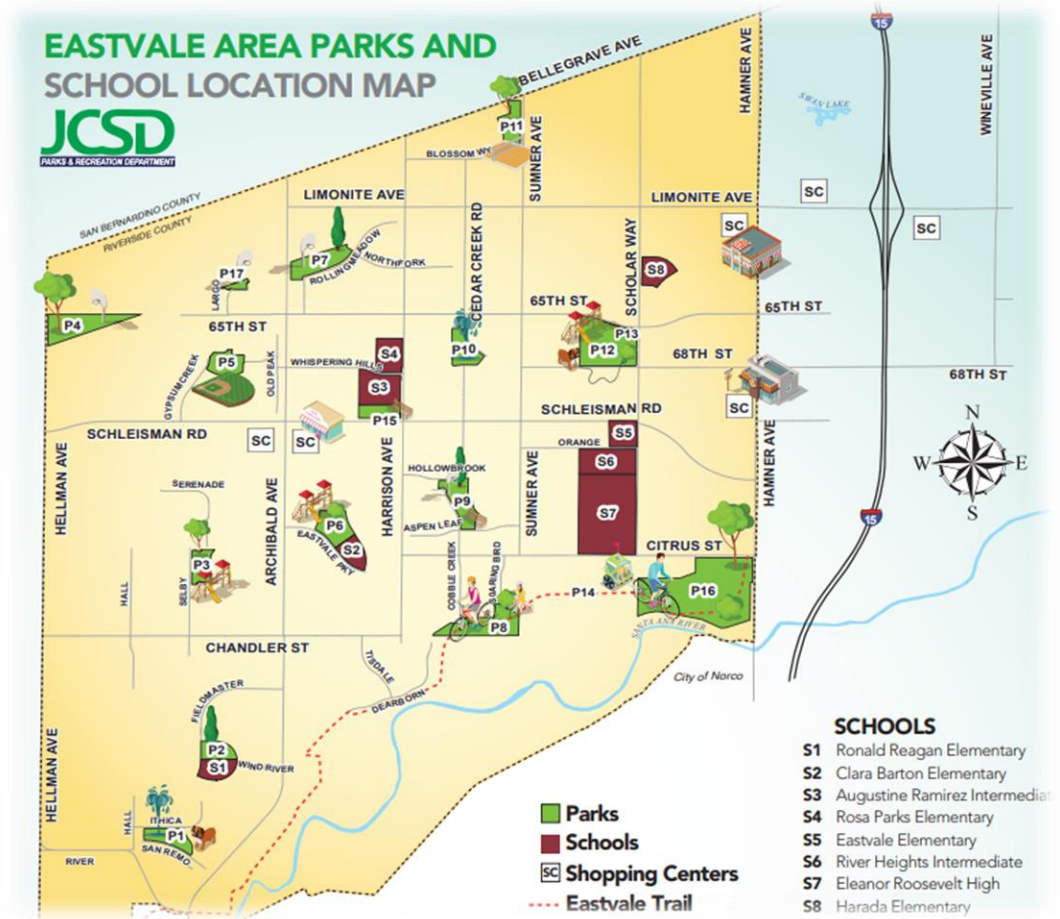


- The project is replacing/retrofitting approximately 46,500 water meters to AMI
- Previously Requested



JCSD  
SMART Irrigation  
Control Systems  
within 15 Parks &  
2 Facilities  
2-8-09110

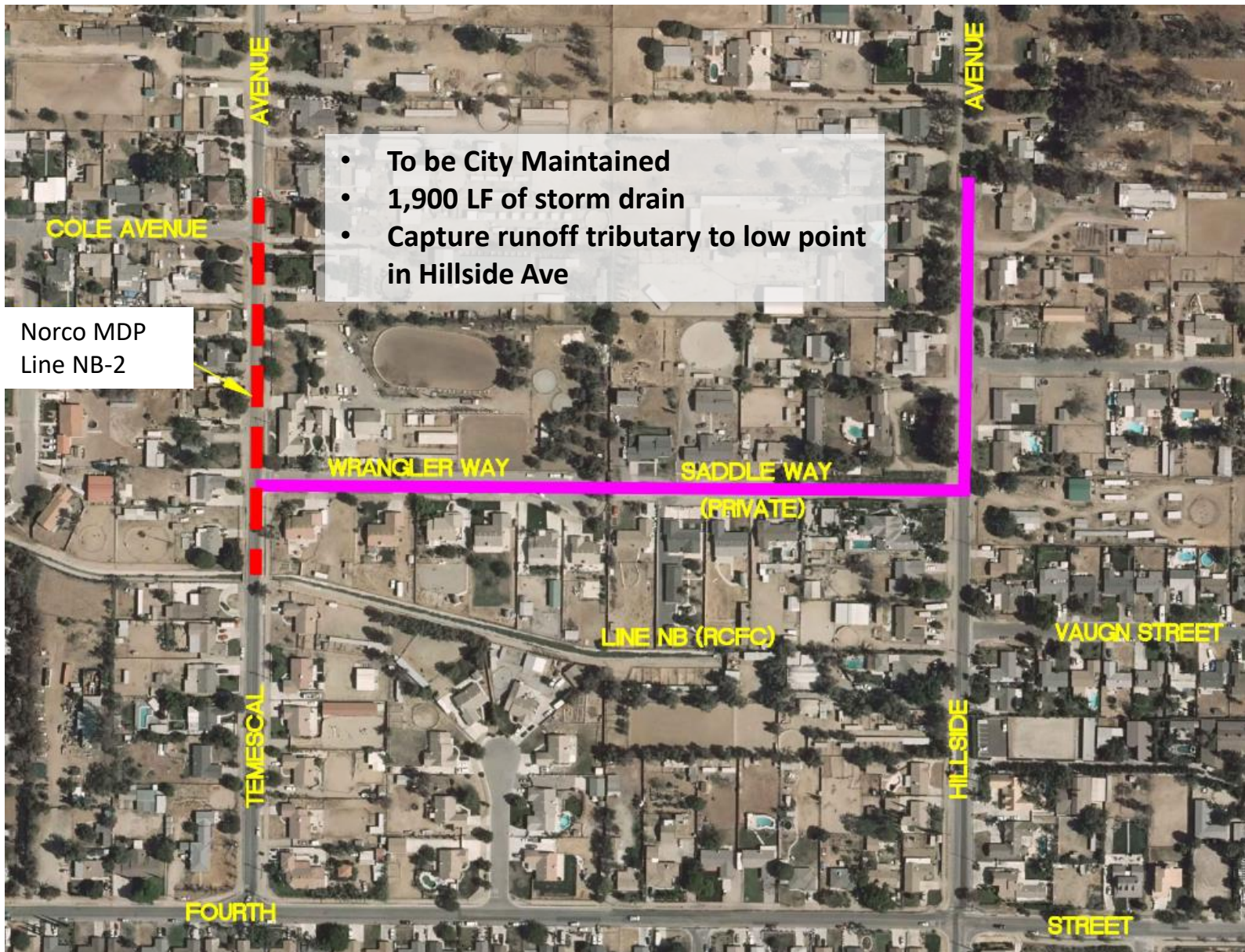
\$400K



Previously Requested



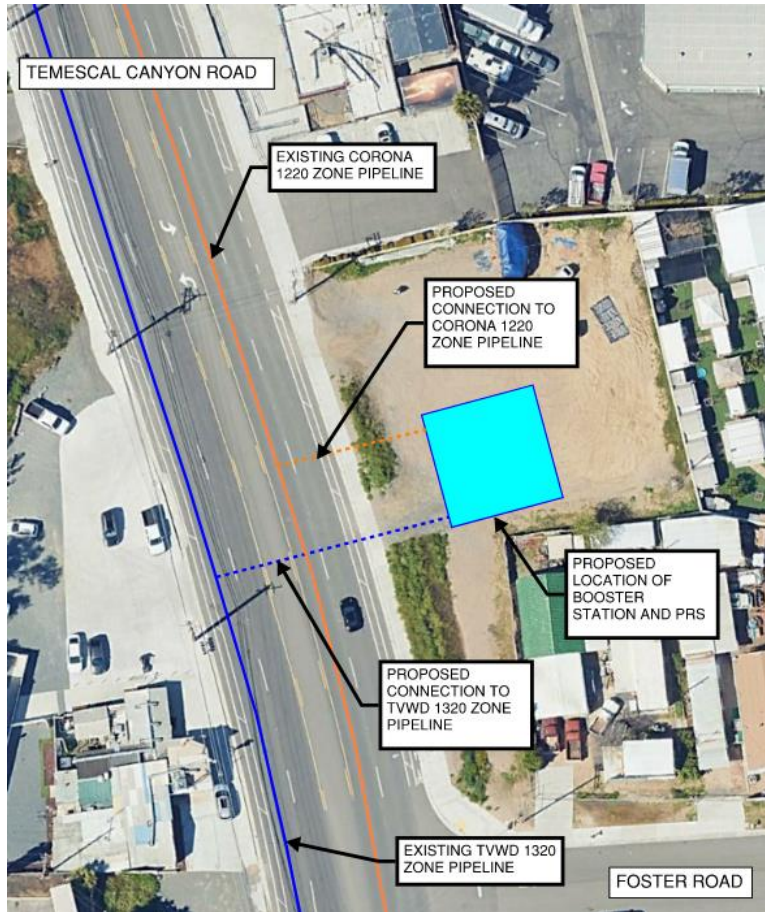
# Hillside Ave Storm Drain | 2-6-09119 | \$1.75M





# TVWD–Inter Agency Potable Water Supply Redundancy Project | 2-6-09120

\$2.1M

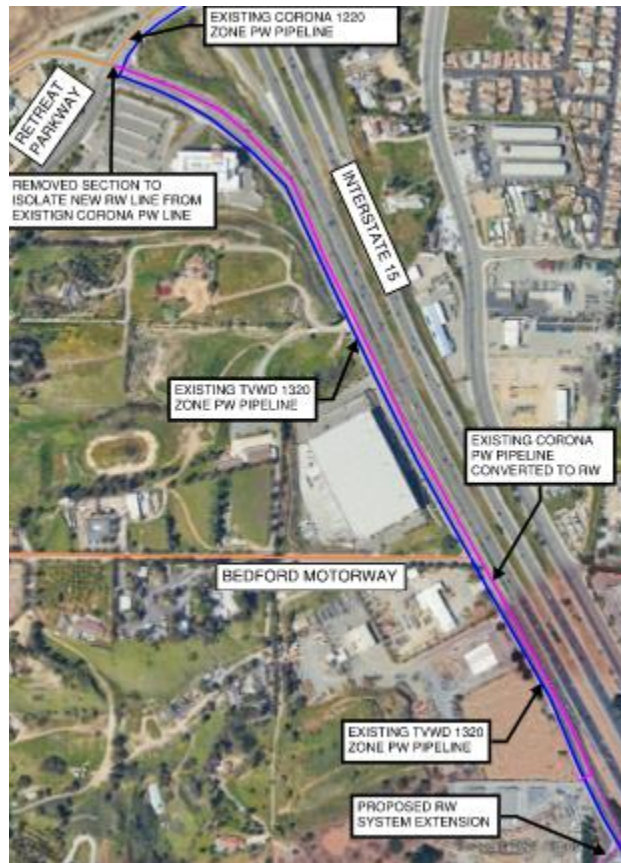


- Approximately 44% cost share
- Collaboration with Corona
- Inter-agency connection between the potable water systems of both agencies to increase regional reliability and fire suppression capabilities.
- New Booster pump to increase pressure to provide capacity for emergency supply of water per local fire flow requirements.
- Construction ETA 2028.



# TVWD–Inter Agency Water Conservation Project | 2-6-09121

## \$780K

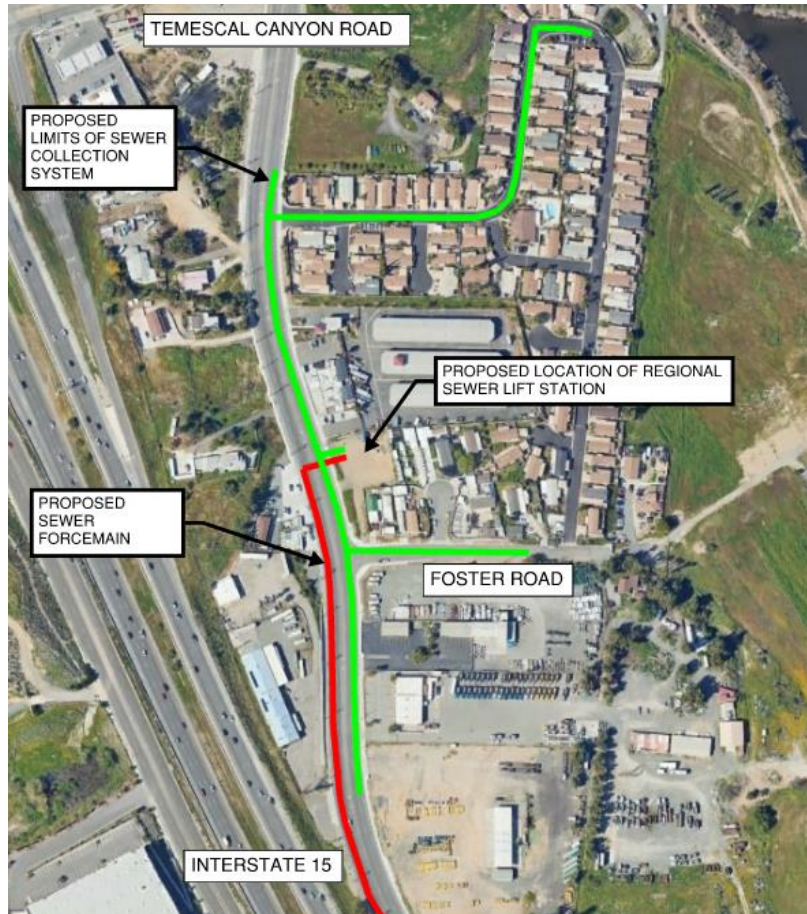


- 50% cost share
- Collaboration with Corona
- Expansion of reclaimed system to offset potable use.
- Corona customers will be transferred to TVWD's potable system
- Corona potable mains will be converted to recycled water.
- Construction ETA 2028.



# TVWD-Regional Lift Station | 2-6-09122

## \$3.33M



- Approximately 50% Cost Share Request
- Collaboration with Corona
- Septic to Sewer lines conversion
- Lift Station to convey wastewater to TVWD's regional plant
- Treated water to be used in TVWD's reclaimed water system.
- Construction ETA 2028.



