



ARROYO SECO

The Arroyo Seco flows from its headwaters in the San Gabriel Mountains through the cities of La Canada Flintridge, Pasadena, and South Pasadena, to its confluence with the Los Angeles River near downtown Los Angeles. The upper half of the Arroyo Seco flows within the Angeles National Forest. Devils Gate Dam is located where the Arroyo Seco exits the forest.

The Arroyo Seco flows in a natural state above Devils Gate Dam and **is concrete lined the entire length below the dam**. The concrete walls of the engineered section have a trapezoidal configuration just upstream of the confluence with the Los Angeles River for about 3 miles then transitions to a vertical configuration where the 110 Freeway intersects Pasadena Avenue. It continues in this form until the Rose Bowl where it transitions back to a trapezoidal channel. **For most of its length, the creek flows through and adjacent to parks.**

The **Arroyo Seco bike path** runs adjacent to the creek for about 2-miles starting at East Avenue 43 . A major portion of this path descends into the creek bed and runs adjacent to the low-flow channel– allowing direct access to the creek. An **unpaved multi-use trail** runs adjacent to the creek for about two miles through Lower Arroyo Park. However, as it flows through the Brookside Golf Course no fencing is present and direct access to the creek is possible. A **new path section in South Pasadena** opened from York to Arroyo Seco Parkway.

POPULATION

- Density²: 23 people/acre (LA County Avg: 13)
- Household Income²: \$46K (LA County Avg: \$54K)
- Community Burden³: Most Burdened 38% of State

KEY ADJACENCIES INCLUDE

- Brookside Golf & Country Club
- Arroyo Park
- Arroyo Seco Golf Course
- Debs Regional Park
- Heritage Square Museum
- Sycamore Grove Park

31 SCHOOLS WITHIN 0.5 MILES

² 2010 Census
³ State of California, CES 3.0
⁴ 2010 Census/LA County Park Assessment

PARK SPACE

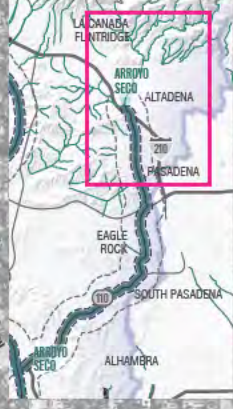
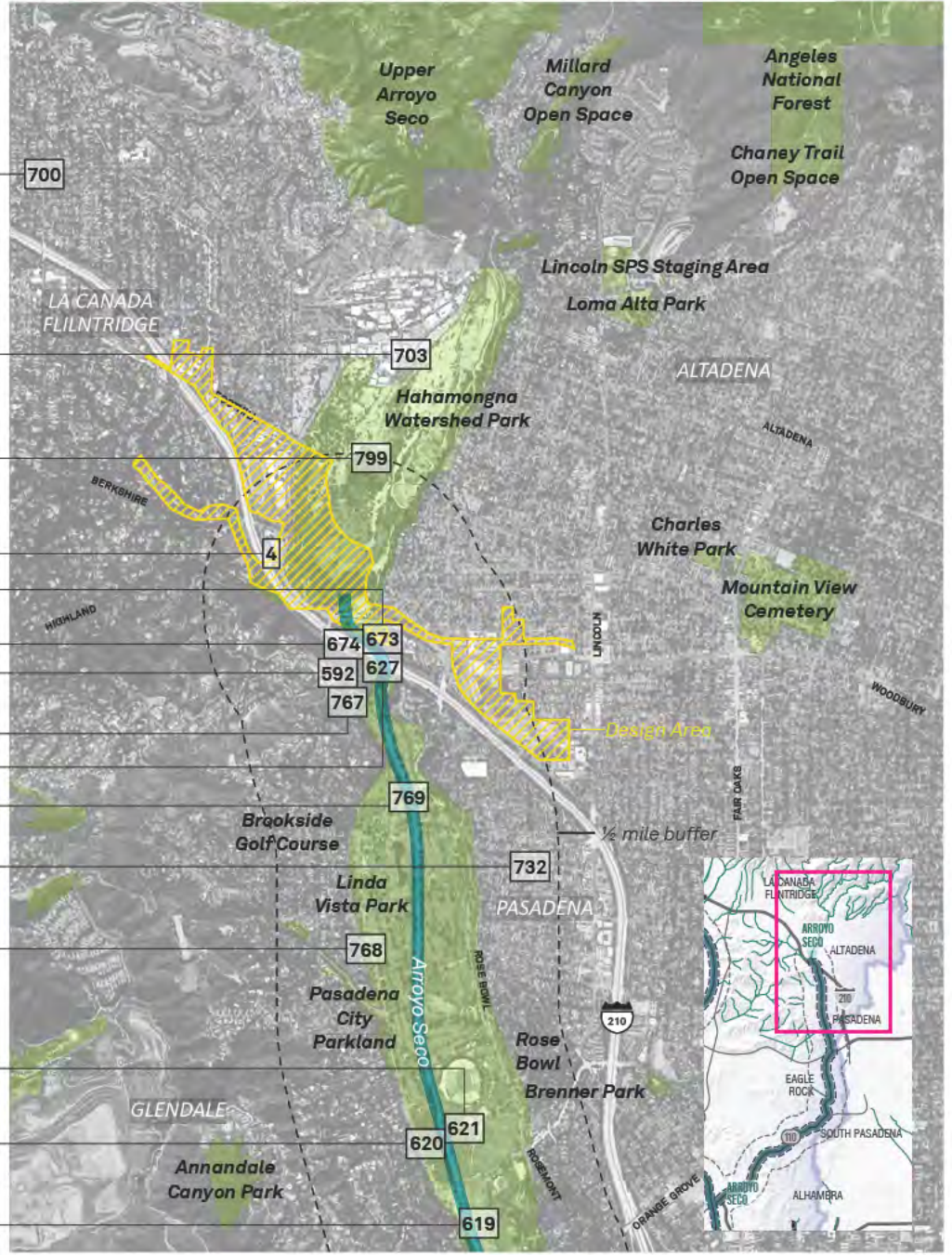
- Park Provision⁵: 9.36 acres per 1,000 people (LA County Avg: 3.3 acres per 1,000 people)
- Most of Arroyo Seco flows through and adjacent to parks

SOME PREVIOUS PLANNING EFFORTS

- One Arroyo Plan (2018)
- Arroyo Seco Watershed Assessment (2010)
- The Arroyo Seco Watershed Management and Restoration Plan (2006)
- The Los Angeles River Revitalization Master Plan (City of Los Angeles) identifies the Arroyo Seco's confluence with the Los Angeles River as an "opportunity area"

OPPORTUNITY AREAS ON ARROYO SECO - INTERSTATE 210 TO BROOKSIDE PARK

- OA 700 Arroyo Seco Foothill Communities
- OA 703 Hahamongna Watershed Park
- OA 799 Oak Grove Park Trail Restoration and Wayfinding
- OA 4 Arroyo Seco Enhanced Community Connectivity
- OA 673 Arroyo Seco Enhanced Habitat Connectivity-5
- OA 674 Arroyo Seco Enhanced Habitat Connectivity-6
- OA 592 Arroyo Seco Open Space, Education, and Watershed Demonstration Park-1
- OA 767 Flint Wash Enhancements
- OA 627 Arroyo Seco Enhanced Habitat Connectivity-5
- OA 769 Brookside Golf Course - Channel Naturalization
- OA 732 Pasadena's Central Arroyo
- OA 768 Brookside Golf Course - Alternative Stream
- OA 621 Arroyo Seco Stormwater Capture-3
- OA 620 Arroyo Seco Stormwater Capture-2
- OA 619 Arroyo Seco Stormwater Capture-1



COMMENT SOURCE

- People and Recreation (Committee)
- People and Recreation (Public)
- Public Comment
- Existing & Planned Projects
- Water and Environment (Public)
- Water and Environment (Committee)
- Planning Team

ALISO CANYON

PACOIMA WASH

TUJUNGA WASH

BURBANK WESTERN

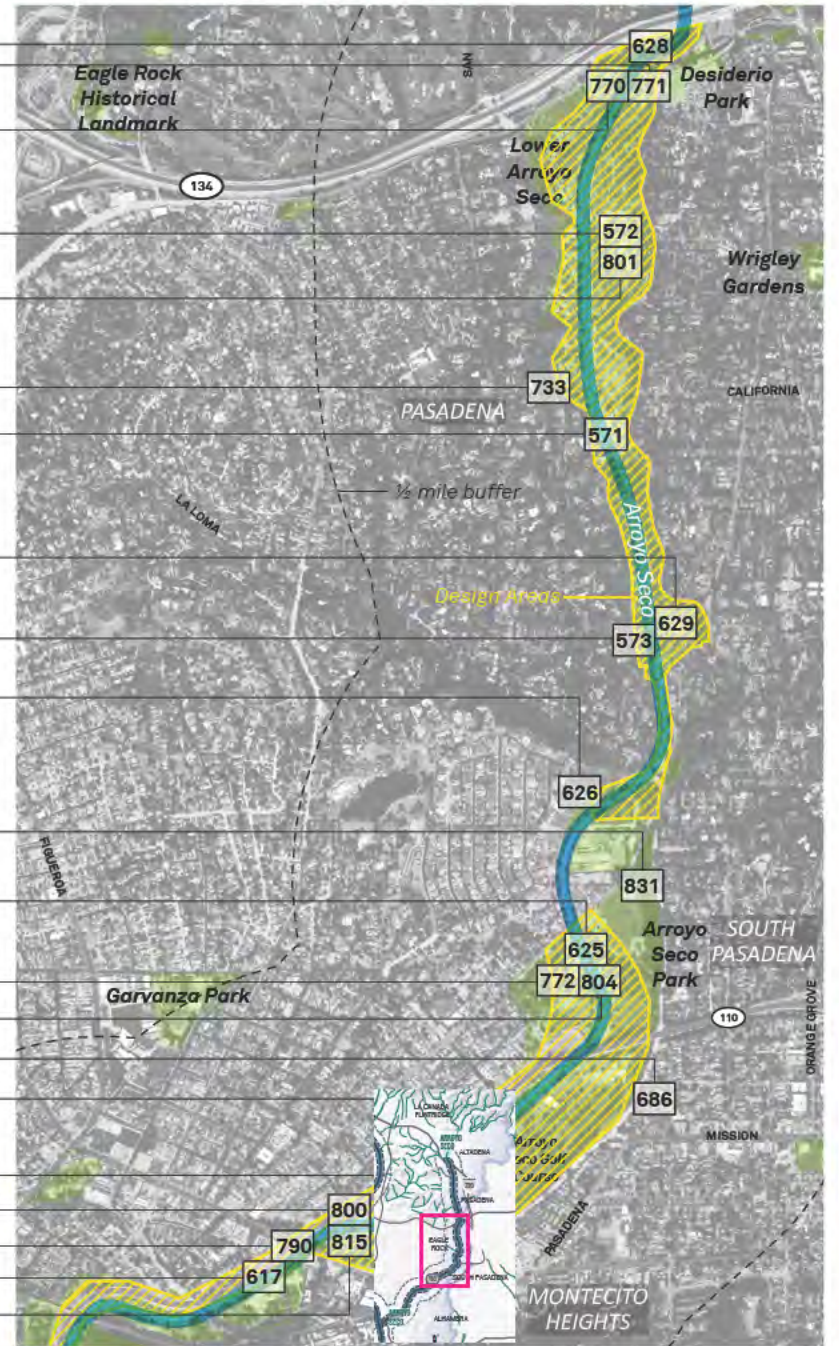
VERDUGO WASH

ARROYO SECO

UPPER LA RIVER

OPPORTUNITY AREAS ON ARROYO SECO - STATE ROUTE 134 TO ARROYO SECO PARK

- OA 628 Arroyo Seco Enhanced Habitat Connectivity-6
- OA 771 Lower Arroyo Park - Low Flow Improvement
- OA 770 Lower Arroyo Park - Channel Naturalization
- OA 572 Arroyo Seco Channel Restoration and Habitat Improvement-2
- OA 801 Lower Arroyo Park Casting Pond Stormwater Capture
- OA 733 Pasadena's Lower Arroyo
- OA 571 Arroyo Seco Channel Restoration and Habitat Improvement-1
- OA 629 Arroyo Seco Enhanced Habitat Connectivity-7
- OA 573 Arroyo Seco Channel Restoration and Habitat Improvement-3
- OA 626 Arroyo Seco Enhanced Habitat Connectivity-4
- OA 831 Arroyo Seco Riparian/Wetland Corridor and Wilderness Park
- OA 625 Arroyo Seco Green Lung-14
- OA 772 Stoney Drive
- OA 804 Pascual Park Native Garden and Wildlife Refuge
- OA 686 Arroyo through South Pasadena
- OA 618 Arroyo Seco Green Lung-16
- OA 817 South Pasadena Arroyo Seco Multi-Use Path
- OA 800 Arroyo Seco Pkwy Bikeway Connector
- OA 790 Clean and Repair Broken Bike Path
- OA 617 Arroyo Seco Green Lung-15
- OA 815 Arroyo Bike Path Restoration



COMMENT SOURCE

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ALISO CANYON

PACIFICA WASH

TUJUNGA WASH

BURBANK WESTERN

VERUJUGO WASH

ARROYO SECO

UPPER LA RIVER

OPPORTUNITY AREAS ON ARROYO SECO - HERMON PARK TO PASADENA AVE

- OA 616 Arroyo Seco Green Lung-14
- OA 624 Arroyo Seco Enhanced Habitat Connectivity-3
- OA 574 Arroyo Seco Adjacent Inundation and Restoration
- OA 623 Arroyo Seco Enhanced Habitat Connectivity-2
- OA 614 Arroyo Seco Green Lung-12
- OA 575 Arroyo Seco Wet Weather Capture -1

- OA 615 Arroyo Seco Green Lung-13
- OA 685 Arroyo through Los Angeles
- OA 622 Arroyo Seco Enhanced Habitat Connectivity-1
- OA 794 Arroyo Homeless Opportunity
- OA 613 Arroyo Seco Green Lung-11

- OA 612 Arroyo Seco Green Lung-10

- OA 576 Arroyo Seco Wet Weather Capture-2
- OA 773 Sycamore Grove Park Restoration

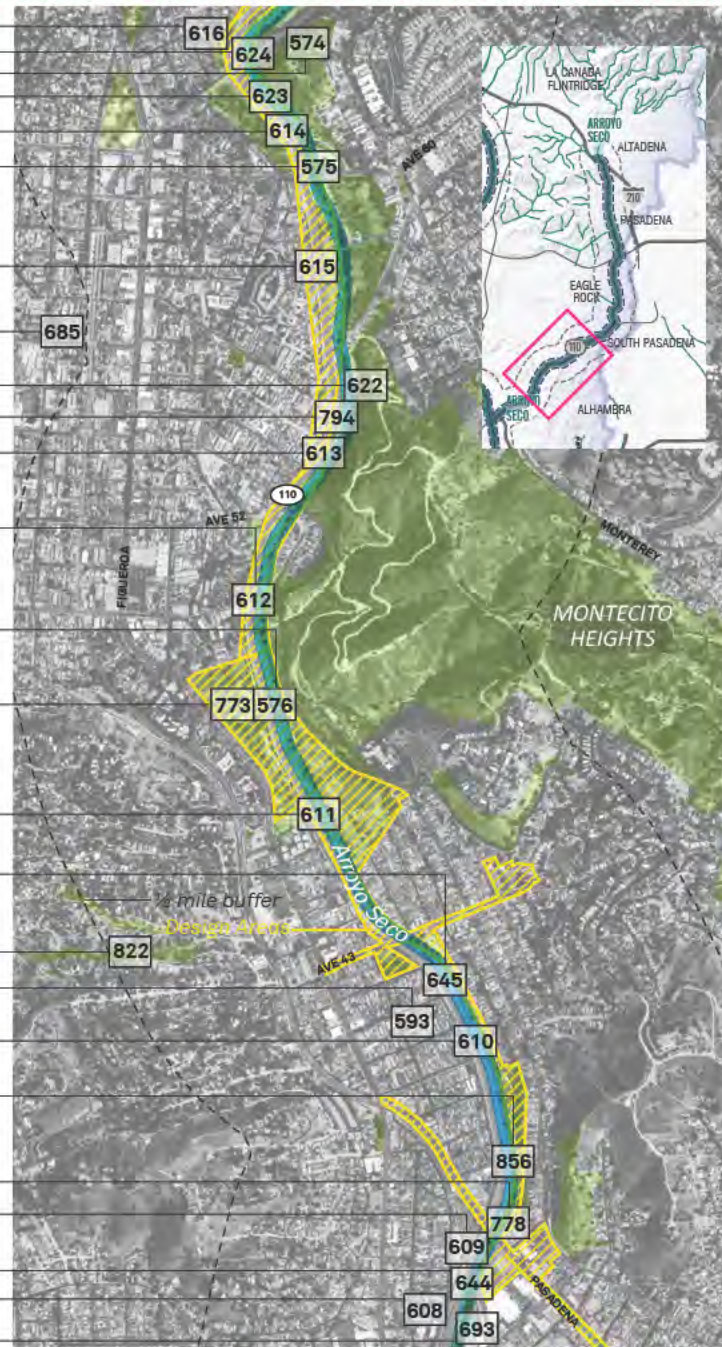
- OA 611 Arroyo Seco Green Lung-9
- OA 645 Arroyo Seco Area Bike Lane Project

- OA 822 Mt Washington Canyon Rain Gardens and Graywater Systems
- OA 593 Arroyo Seco Open Space, Education, and Watershed Demonstration Park-2

- OA 610 Arroyo Seco Green Lung-8
- OA 856 Arroyo Seco Greenway

- OA 778 Heritage Square to Sycamore Grove Park Bikeway and Demonstration
- OA 609 Arroyo Seco Green Lung-7

- OA 644 Arroyo Seco Area Bike Path Connection
- OA 608 Arroyo Seco Green Lung-6
- OA 693 Arroyo Seco Confluence with Los Angeles River

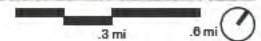


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OPPORTUNITY AREAS ON ARROYO SECO - PASADENA AVE TO LOS ANGELES RIVER

- OA 709 In Channel Habitat Enhancement Projects with Active Planting/Seeding
- OA 710 Opportunity for In Channel Habitat Enhancement Projects with Passive Recruitment
- OA 713 LA River Ecosystem Restoration IFR
- OA 605 Arroyo Seco Green Lung-3
- OA 699 Elysian Park Native Habitat
- OA 829 Indigenous People Native Garden and Art Installation
- OA 793 Frog Town Foot Bridge 2
- OA 604 Arroyo Seco Green Lung-2
- OA 603 Arroyo Seco Green Lung-1
- OA 895 Arroyo Seco Confluence
- OA 792 Arroyo Bikeway
- OA 826 Humboldt to Ed Reyes Greenway Crosswalk
- OA 871 Bending the River Back into the City
- OA 827 LAR by Buena Vista Hill Elysian Park Bikeway
- OA 606 Arroyo Seco Green Lung-4
- OA 607 Arroyo Seco Green Lung-5



COMMENT SOURCE

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- People and Recreation (Public)
- Public Comment
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ALISO CANYON

PACIFICA WASH

TUJUNGA WASH

BURBANK WESTERN

VERDUGO WASH

ARROYO SECO

UPPER LA RIVER



Arroyo Seco (in this area)



Hahamongna Park



Flint Canyon Wash

FLINT CANYON CONFLUENCE

Wildlife Corridor

This design area is one of the most important habitat areas in the Arroyo Seco corridor. To improve this habitat, the “Arroyo Seco Watershed Management and Restoration Plan” proposed numerous projects. If chosen, we would recommend studying how these plans could be linked to create a unique ecological system for habitat and passive recreation.

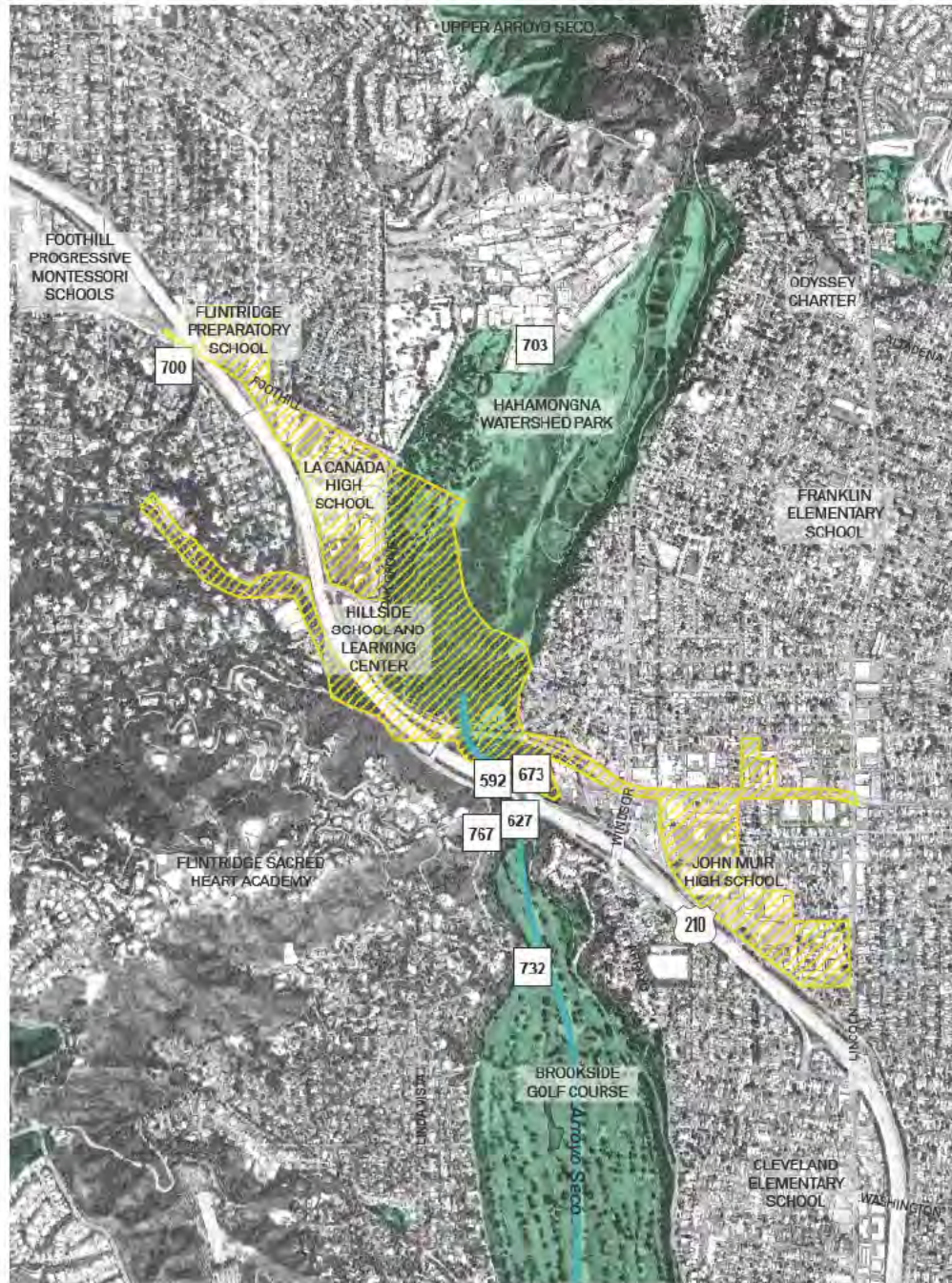
This could include

- ▶ **Naturalization of Flint Canyon Wash.** The wash is unlined for over ½ mile before it ends at the Arroyo Seco, making it a critical habitat link between Hahamongna, the San Rafael Hills, and San Gabriel Mountains. Although unlined, the channel has been heavily modified from its natural profile and there is an opportunity to modify it and further strengthen its ecological role
- ▶ **Infiltration and water treatment of storm drains discharge.** Several large storm drains discharge directly into the Hahamongna critical habitat. Tests from DPW have shown high levels of bacterial contamination in this discharge (DPW). To protect and enhance existing habitat, infiltration and water treatment should be installed
- ▶ **Connection to schools.** There are half a dozen schools within walking distance of this design area. Green streets, bike paths and multi-use trails could simultaneously create additional ecological connections and help bring students to this unique area

HOW DOES IT ALIGN WITH COMMUNITY NEEDS?

- ▶ Meets existing needs for habitat, ecology, access, education, stormwater management and reduction of pollution impact

Arroyo Seco Design Areas// Flint Canyon Confluence



FLINT CANYON CONFLUENCE

OPPORTUNITY AREAS IN THIS DESIGN AREA

- 592** Arroyo Seco Open Space, Education, and Watershed Demonstration Park-1
- 627** Arroyo Seco Enhanced Habitat Connectivity-5
- 673** Arroyo Seco Enhanced Habitat Connectivity-5
- 700** Arroyo Seco Foothill Communities
- 703** Hahamongna Watershed Park
- 732** Pasadena's Central Arroyo
- 767** Flint Wash Enhancements





Arroyo Seco (in this area)



Pasadena Casting Club

LOWER ARROYO PARK NATURALIZATION

Restoring the Natural Stream

This design area presently contains some of the best remaining native habitat in the Arroyo Seco south of Devil's Gate Dam. This is also the most feasible place to remove the Arroyo's concrete lining and restore a natural stream channel.

As a long-term goal, the tributary's ecological and hydrological functioning can be restored through re-creation of a continuous riparian habitat corridor within the waterway.

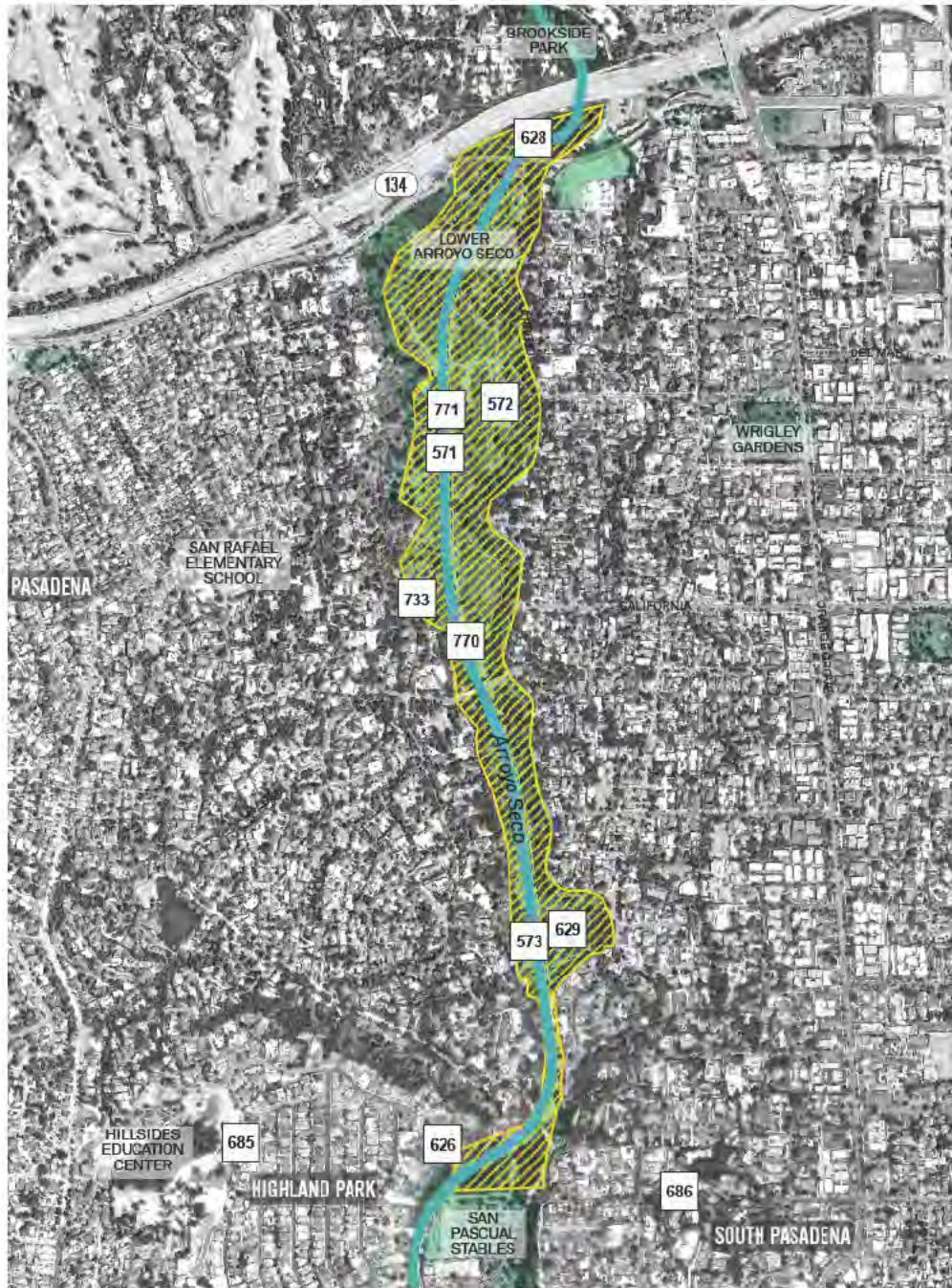
This could include

- ▶ **Stormwater infiltration.** The ample open space, coupled with possible Arroyo naturalization, offer the opportunity to infiltrate large volumes of urban runoff generated upstream
- ▶ **Develop "treatment terraces"** within the channel to treat stormwater flows that "daylight" or surface in the River
- ▶ **Public Space.** The existing Arroyo Seco Park might be modified to create small terraced pocket parks and native landscaped areas that would allow people to access the waterway

HOW DOES IT ALIGN WITH COMMUNITY NEEDS?

- ▶ Meets existing needs for access, stormwater management and habitat

Arroyo Seco Design Areas// Lower Arroyo Park Naturalization



LOWER ARROYO PARK

OPPORTUNITY AREAS IN THIS DESIGN AREA

- 571** Arroyo Seco Channel Restoration and Habitat Improvement-1
- 572** Arroyo Seco Channel Restoration and Habitat Improvement-2
- 573** Arroyo Seco Channel Restoration and Habitat Improvement-3
- 626** Arroyo Seco Enhanced Habitat Connectivity-4
- 628** Arroyo Seco Enhanced Habitat Connectivity-6
- 629** Arroyo Seco Enhanced Habitat Connectivity-7
- 685** Arroyo through Los Angeles
- 686** Arroyo through South Pasadena
- 733** Pasadena's Lower Arroyo
- 770** Lower Arroyo Park - Channel Naturalization
- 771** Lower Arroyo Park - Low Flow Improvement
- 801** Lower Arroyo Park Casting Pond Storm-water Capture



IMAGINE!

South of the Ventura Freeway, the Arroyo Seco mimics the original varied riparian landscape that Charles Fletcher Lummis wandered. The naturalized waterways allow surface water to collect and infiltrate in depressed water infiltration gardens, recharging the first flush of storm events and cleaning stormwater that is eventually released into the waterways.

CONTEXT

The 199-acre Lower Arroyo Park design area is in the southern part of Pasadena. The area follows the Arroyo Seco from Highway 134 to about Highway 110. The design area is an existing park.

Around 11,801 people live within ½ mile of the tributary in this area. The average total CalEnviroScreen score is in the 31st percentile for the state, which is lower than some of the other design areas.

Arroyo Seco Design Areas// Lower Arroyo Park Naturalization

RESILIENCY BENEFITS

Analyzing the Lower Arroyo Park Naturalization design area concept through the i-Tree suite of tools, ArcMap 10.7.1, and AutoCAD yielded the following benefits. Please see Appendix F for a full description of the methodology.

The design includes **121 acres** of new or enhanced permeable cover

WATER



STORMWATER CAPTURE

10 acre-feet

or **5**
Olympic-sized swimming pools



AIR



The design includes **6,839 trees** that sequester carbon, and remove pollutants from the air



AIR POLLUTANT REMOVAL

7,239 tons

Additional Carbon Sequestration

205 tons

Additional Carbon Dioxide Avoided

6 tons

Additional Pollutant Removal

HABITAT

The design includes **159 acres** of new and enhanced ecological habitat that contribute to the Rim of the Valley Corridor Preservation and **78 acres** of additional tree canopy



HABITAT CREATION

65%

the size of the 244-acre Verdugo Mountain Open Space Preserve



COMMUNITY



The design includes **179 acres** of new and enhanced open space and **16 miles** of new or enhanced community connections



9.5 miles

Green Streets

1.2 miles

Multi-modal paths

4.5 miles

Trails

Arroyo Seco Design Areas// Lower Arroyo Park Naturalization



Existing Conditions looking North from Bradford Street

Arroyo Seco Design Areas// Lower Arroyo Park Naturalization

Comprehensive feasibility studies, required jurisdictional coordination, environmental impacts, and other engineering design details, are not part of this plan



Proposed Design looking North from Bradford Street

Arroyo Seco Design Areas// Lower Arroyo Park Naturalization



LOWER ARROYO PARK NATURALIZATION DESIGN AREA CONCEPT

- NATURALIZED ARROYO SECO
- REMOVAL OF CHANNEL WALLS
- TERRACED VEGETATION
- GREEN STREETS
- OVERLOOKS

Arroyo Seco Design Areas// Lower Arroyo Park Naturalization

LOWER ARROYO SECO (ENLARGEMENT)

To allow for stream naturalization, this concept was designed to withstand temporary flooding by enabling stormwater and debris to quickly recede. Techniques include slope stabilization, the use of fast-draining soils, appropriate vegetation, and durable finishes. A gradient of texture surfaces: from gabions, step gabions, smoother stone terraces also help control the flow of water.

The site's design and programming are linked to the spaces ability to withstand the strong forces of water and treat urban runoff from the surrounding catchment zone before it enters the waterways. The focus on habitat creation and the desire to treat water biologically promoted the use of more woodlands and wetlands, frog ponds, meadows, and grassy swales. Overlaid onto this new topography are traditional park amenities and activities: seating, lighting, picnic benches paths for strolling and biking, and bridge from which to watch birds.



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NEXT STEPS

Additional required analyses and next steps for the Lower Arroyo Park Naturalization design area include:

- ▶ A preliminary engineering report that includes feasibility-level analyses, cost estimates, and coordination
- ▶ Geotechnical evaluation for wetlands should be performed,
- ▶ Analysis of the expected flows during wet and dry weather
- ▶ Soil remediation analyses to determine extent of possible existing contamination
- ▶ Identification of the appropriate water rights for river diversions
- ▶ Analysis of the effects of increased water demand from vegetation and wildlife
- ▶ Biological studies for wildlife needs for habitat restoration and preservation areas
- ▶ Hydrologic and hydraulic modeling to determine potential for channel naturalization
- ▶ An Environmental Impact Report/ Statement (EIR/EIS) may need to be completed to assess any potential environmental impacts
- ▶ Water quality analysis—including pollutant settling and oxygen demand
- ▶ Air quality assessment should be performed
- ▶ Study to assess the potential for planting native vegetation to restore the historic habitat and ecological function of the tributary wherever possible while not reducing its ability to manage the flood risk to adjacent communities
- ▶ Additional analysis to consider climate change and updated storm return intervals to help understand and prioritize opportunities and improvements



Arroyo Seco (in this area)



Welch Site



Heritage Square Museum

HERITAGE SQUARE

An Urban Community and Ecological Connector

In the park-poor areas at the southern end of the Arroyo Seco, there is an opportunity to create an ecological and cultural destination by connecting the vacant Welch Site and the Sycamore Grove Park, with community institutions such as the Heritage Museum, the Metro Station, the Lummis House, and numerous schools.

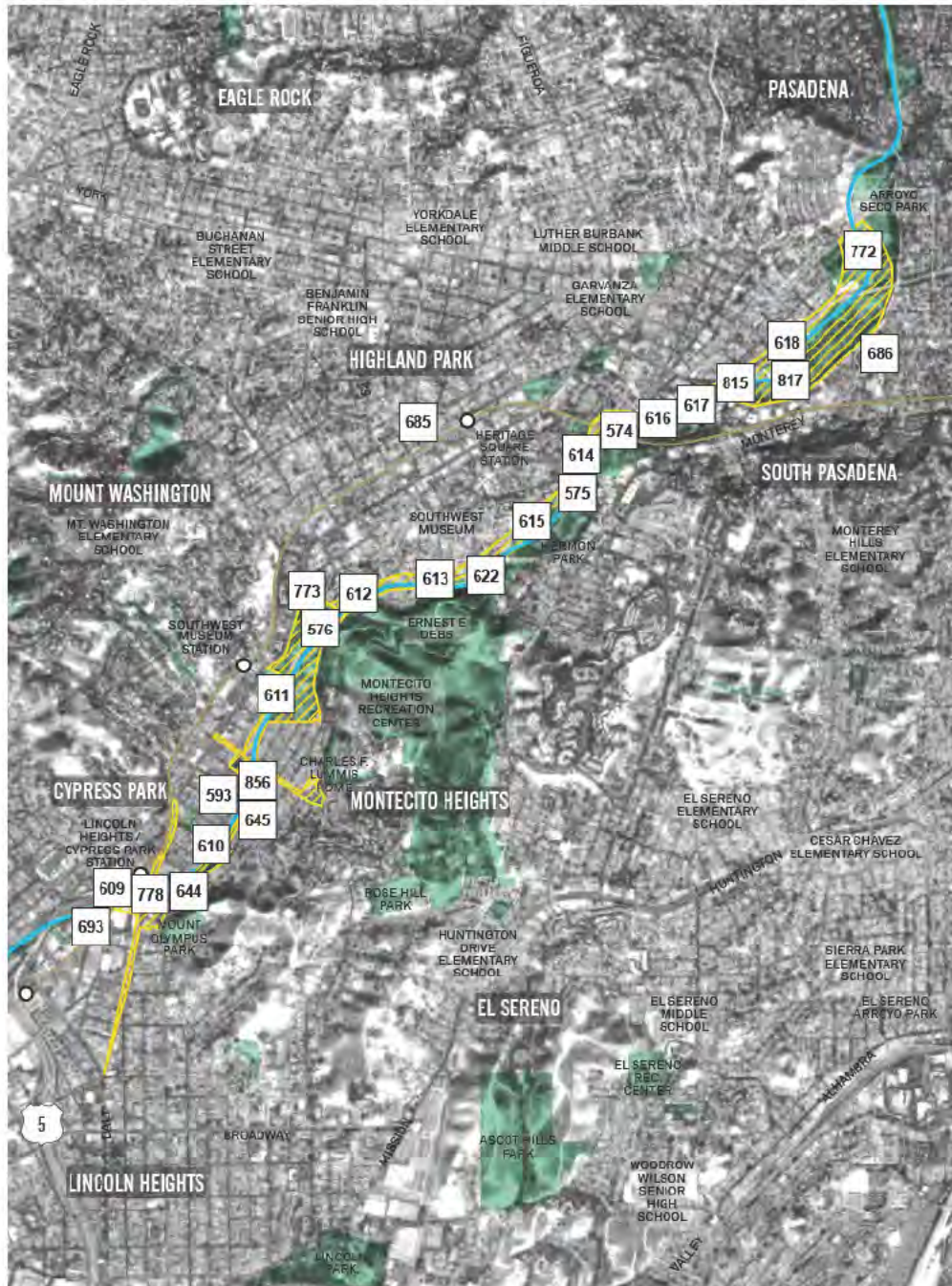
This could include

- ▶ **Daylighting and restoring** an underground stream at Sycamore Grove Park
- ▶ **Habitat Restoration** at the Welch Site link Ernest E. Debs Park and Elysian Park via the Confluence. Restoration with native plants would provide both forage and cover for resident and transient animals alike
- ▶ **Stormwater gardens** could be installed on the Welch Site treat runoff from an industrial/commercial area of the Arroyo Seco

HOW DOES IT ALIGN WITH COMMUNITY NEEDS?

- ▶ Meets existing needs for connection, habitat, access, culture, education, stormwater management and reduction of pollution impact

Arroyo Seco Design Areas// Heritage Square



HERITAGE SQUARE

OPPORTUNITY AREAS IN THIS DESIGN AREA

- | | |
|--|---|
| 574 Arroyo Seco Adjacent Inundation and Restoration | 625 Arroyo Seco Green Lung-14 |
| 575 Arroyo Seco Wet Weather Capture -1 | 644 Arroyo Seco Area Bike Path Connection |
| 576 Arroyo Seco Wet Weather Capture-2 | 645 Arroyo Seco Area Bike Lane Project |
| 593 Arroyo Seco Open Space, Education, & Watershed Demonstration Park-2 | 685 Arroyo through Los Angeles |
| 609 Arroyo Seco Green Lung-7 | 686 Arroyo through South Pasadena |
| 610 Arroyo Seco Green Lung-8 | 693 Arroyo Seco Confluence with Los Angeles River |
| 611 Arroyo Seco Green Lung-9 | 772 Stoney Drive |
| 612 Arroyo Seco Green Lung-10 | 773 Sycamore Grove Park Restoration |
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| 618 Arroyo Seco Green Lung-16 | 817 South Pasadena Arroyo Seco Multi-Use Path |
| 622 Arroyo Seco Enhanced Habitat Connectivity-1 | 856 Arroyo Seco Greenway |



Arroyo Seco Design Areas **HERITAGE SQUARE (385 ACRES)**

IMAGINE!

Sunday, 11am. The Arroyo Seco Heritage Square area is already filled with friends, families, and visitors from all over the country that are setting up picnics at Sycamore Grove and Artesian Park, the riding bikes down the Arroyo Allee, and walking to the latest exhibit at the Southwestern Museum/ The area has become known as the best place to experience what Los Angeles was like when she was a young, growing city grounded in an “arroyo culture” and an arts and crafts sensibilities.

CONTEXT

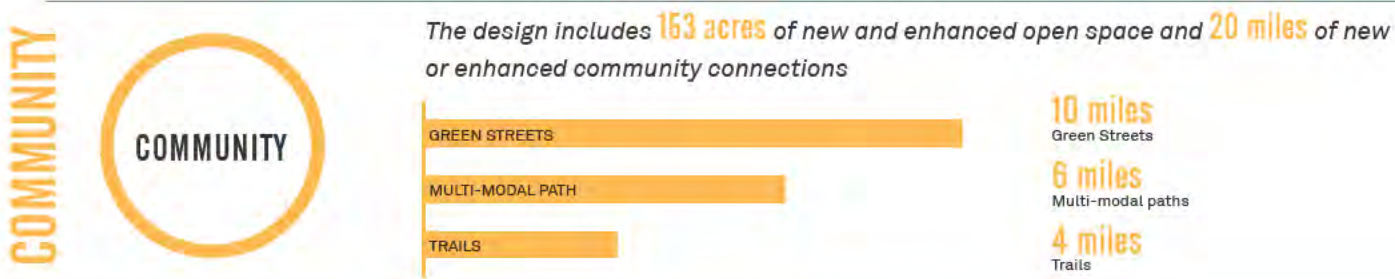
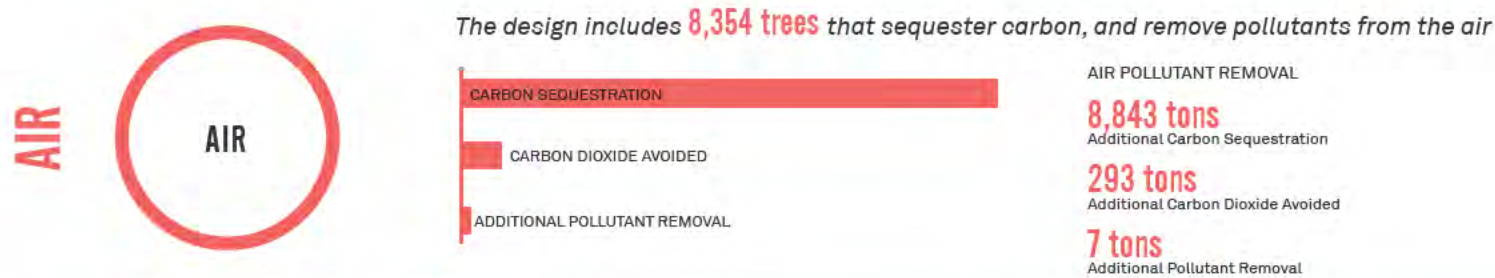
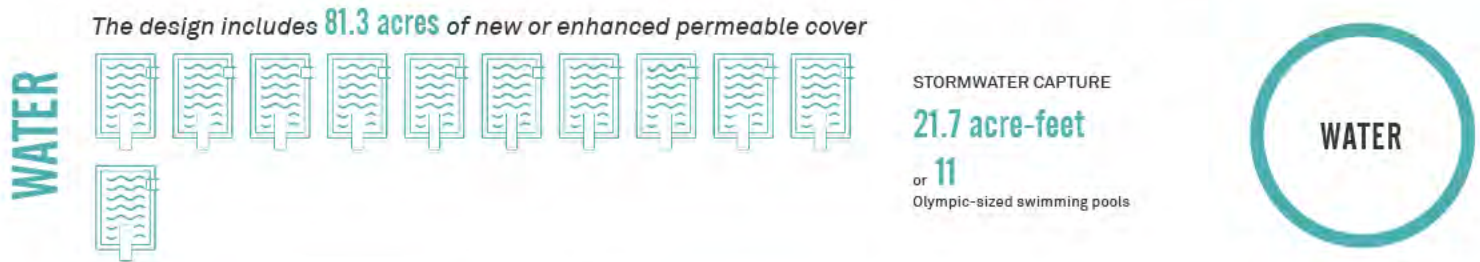
The 385-acre Heritage Square design area follows the Arroyo Seco through neighborhoods in Northeast Los Angeles including Montecito Heights, Mount Washington, Lincoln Heights, and Cypress Park. The design area is flanked by the Arroyo Seco Parkway (110) and Pasadena Avenue. The northerly portion of the design area includes Sycamore Grove Park and the Montecito Heights Recreation Center.

The area is dense with about 34,048 people living within ½ mile of the tributary in this area. The pollution burden in the area is high with the average CalEnviroScreen score being in the 82nd percentile. Pollution comes from the freeways and industrial uses in the area.

Arroyo Seco Design Areas// Heritage Square

RESILIENCY BENEFITS

Analyzing the Heritage Square design area concept through the i-Tree suite of tools, ArcMap 10.7.1, and AutoCAD yielded the following benefits. Please see Appendix F for a full description of the methodology.



Arroyo Seco Design Areas// Heritage Square



View looking North at the Arroyo Seco near the Montecito Recreation Center

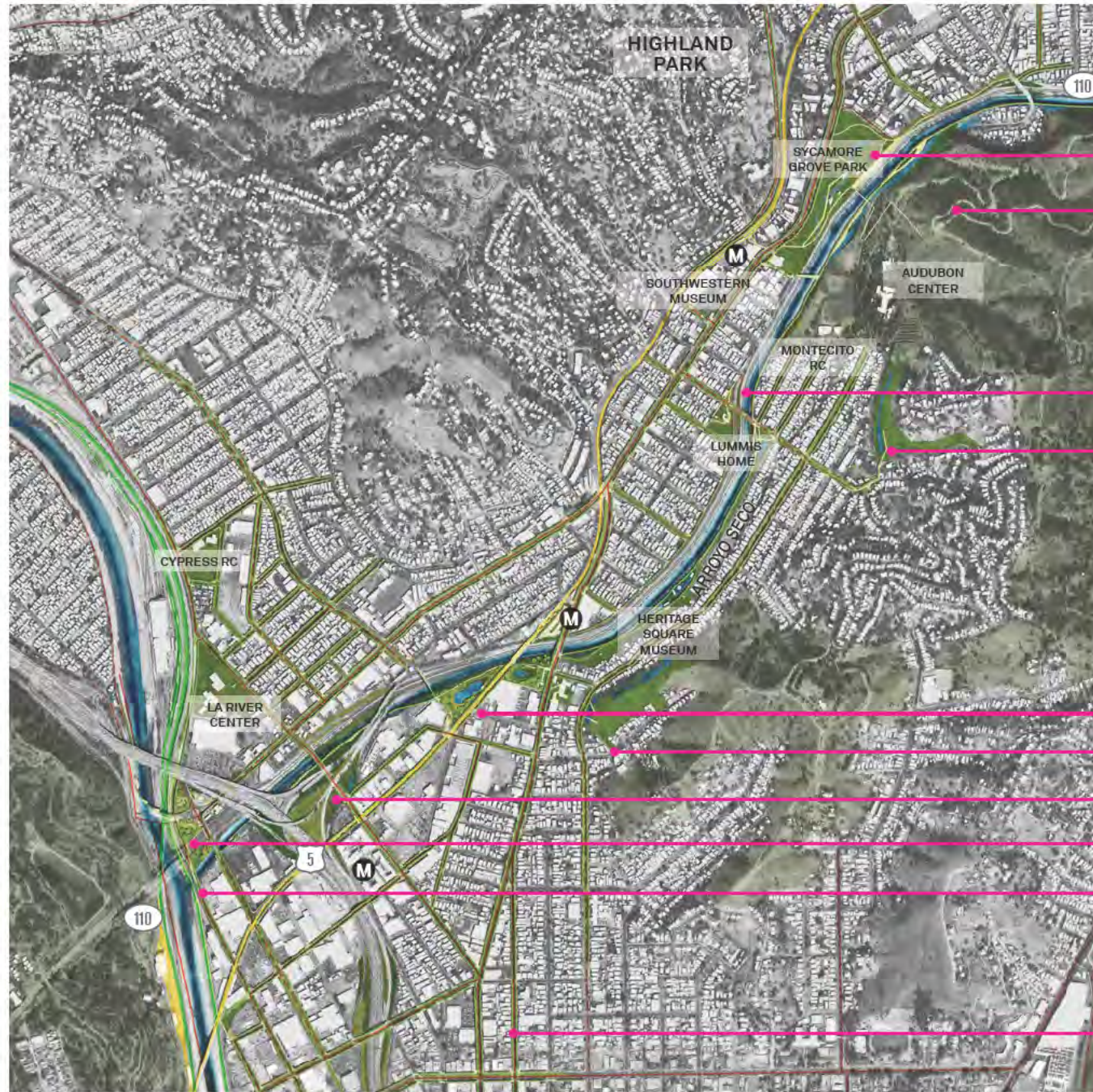
Arroyo Seco Design Areas// Heritage Square

Comprehensive feasibility studies, required jurisdictional coordination, environmental impacts, and other engineering design details, are not part of this plan



View looking North at the Arroyo Seco near the Montecito Recreation Center

Arroyo Seco Design Areas// Heritage Square



HERITAGE SQUARE DESIGN AREA CONCEPT

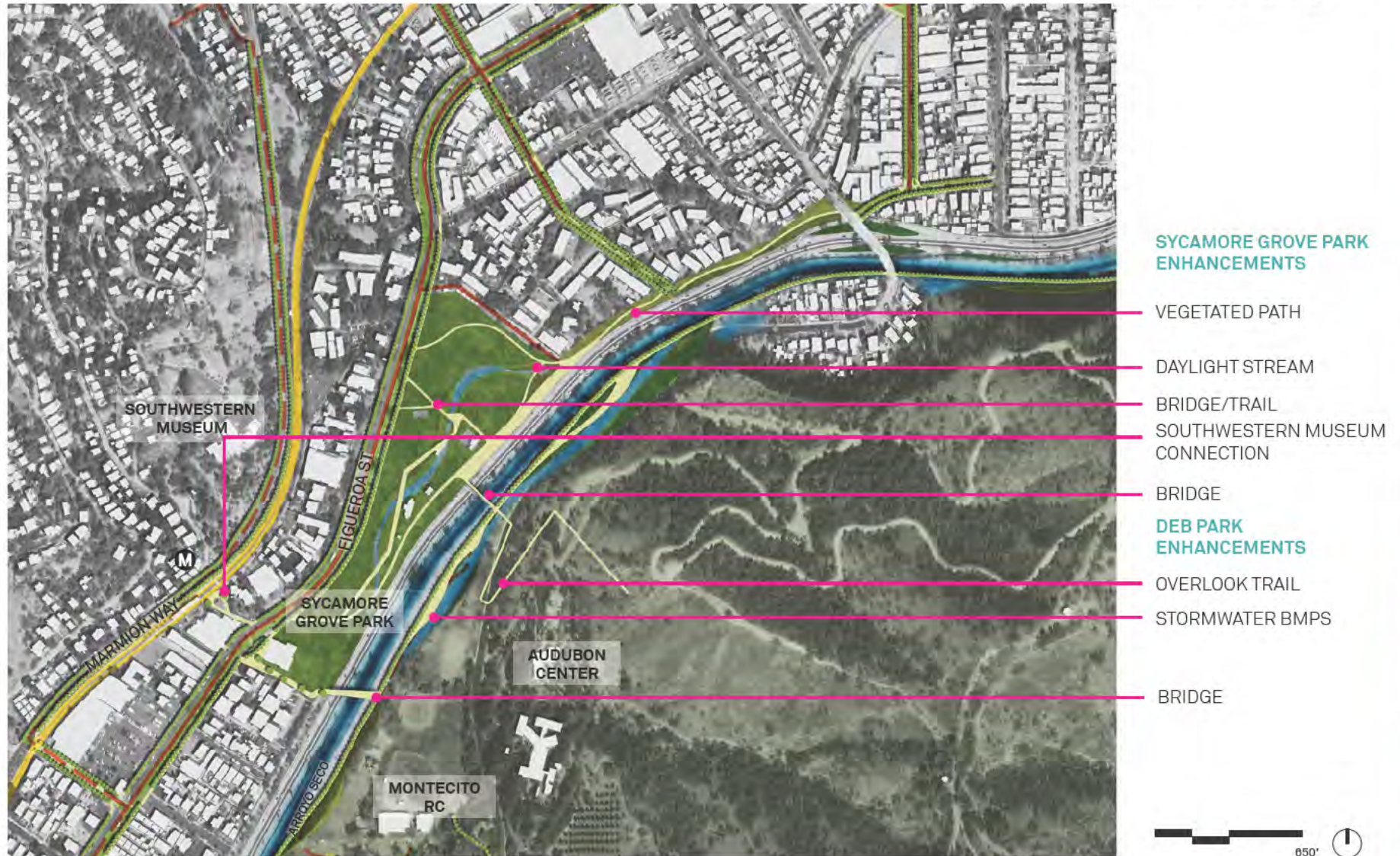
- SYCAMORE GROVE PARK ENHANCEMENTS
- DEBS PARK ENHANCEMENTS
- ARROYO ALLEE
- FOOTHILL DETENTION BASIN
- ARTESIAN PARK
- FOOTHILL DETENTION BASIN
- FILTRATION FOREST
- CONFLUENCE PLAZA
- ARROYO BIKE PATH CONNECTION TO THE METRO RIVER PATH
- GREEN STREETS



Arroyo Seco Design Areas// Heritage Square

SYCAMORE GROVE PARK (ENLARGEMENT)

From its history as a red-light district at the turn of the 20th century, Sycamore Grove Park is now one of the oldest parks in Los Angeles and signals our new relationship to the area's waterways. This design concept is a response to Northeast Trees and others who advocated to daylight the North Branch Creek in this location. Once the Arroyo Seco's largest tributary, the North Branch has become buried within one of the largest and most contaminated storm drains in the watershed. Sycamore Grove Park's design seeks to create an experientially rich experience from its connection to the Southern Western Museum and Debs Park on the east and west side down to the waterway's edge which is deliberately wild in its native plantings.



Arroyo Seco Design Areas// Heritage Square

THE ARROYO ALLEE (ENLARGEMENT)

The Arroyo Allee is a linear park along the Southern Arroyo Seco that is designed to engage people with the life and history of the city. Linking the waterway, public transit, and iconic institutions including the Lummis House and Heritage Square, the park uses materials, textures, and planting to create a variety of spaces and texture to engage the mind and the senses. Seating, tall trees, planted borders, play space, public art, and interpretive signage will make the park a comfortable, welcoming, and heterogeneous destination.

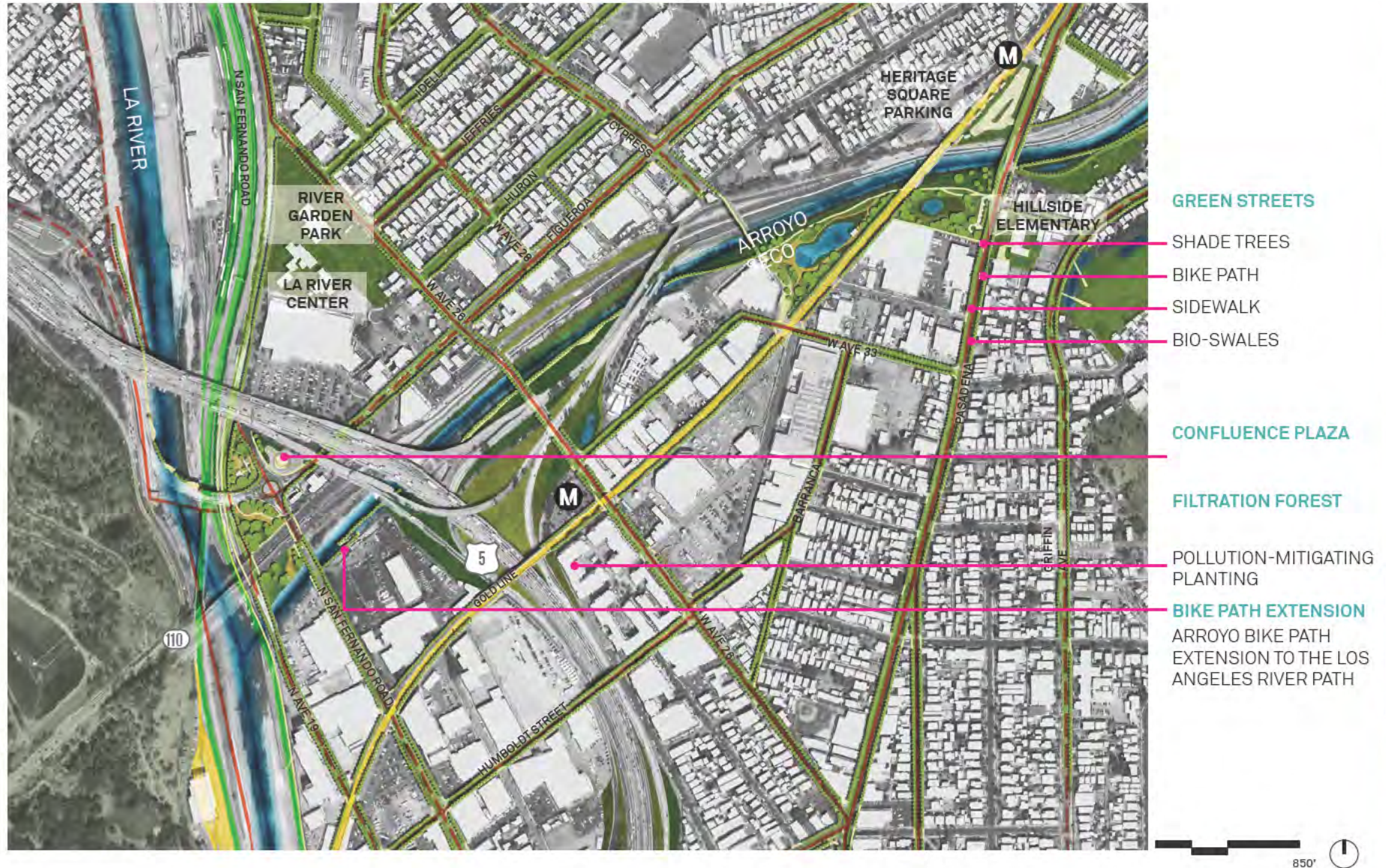
The park will also include a series of green and grey infrastructure improvements, such as bio-retention basins, swales, and permeable surfaces intended to slow down and capture stormwater.



Arroyo Seco Design Areas// Heritage Square

THE CONFLUENCE (ENLARGEMENT)

This design area concept includes a network of green streets, parks, and bike paths that connect the tributary environmentally and physically to the Los Angeles River. The proposed design will extend the Arroyo Bike Path from Avenue 43 to San Fernando Road where it can connect with the Los Angeles River Path (funded by Metro). It is a resilient, multi-modal, cultural network that grounds the space, increasing the sense that the area is a transportive refuge from the rest of the City.



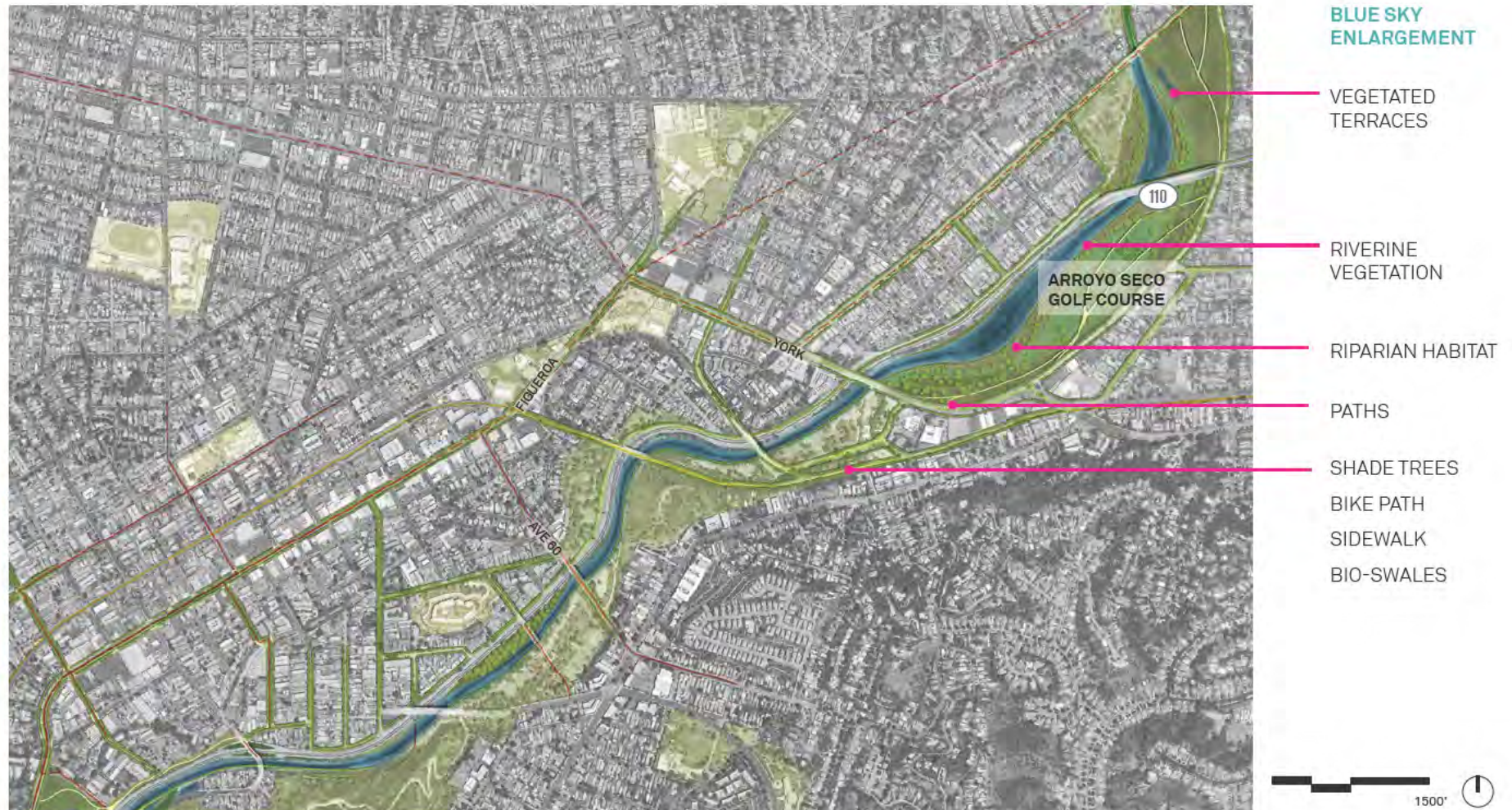
- ALISO CANYON
- PACIFICA WASH
- TUJUNGA WASH
- BURBANK WESTERN
- VERUGUO WASH
- ARROYO SECO
- UPPER LA RIVER

Arroyo Seco Design Areas// Heritage Square

BLUE SKY (ENLARGEMENT)

Between the 110 parkway and York Boulevard, there is space to widen the Arroyo Seco with rougher planted surfaces and greater area for infiltration. That adjacent golf course acts as both a recreation space and a high-volume plane for the waterway. This design concept gives the Arroyo Seco room to unfurl, widening with “softer” engineered banks, a low-flow channel, and riverine vegetation that will cultivate animal habitat. The system of landscape and pathways helps inundate and disperse the water flow.

The combination of natural water and engineered edges work together to restore bird habitat to the corridor and create a shaded environment for fish spawning. The riparian plant species can withstand periodic inundation associated with storm events. These overlapping systems form a designed ecology for the river, which allow for the co-existence of recreation, flood control, and habitat.



NEXT STEPS

Additional required analyses and next steps for the Heritage Square design area include:

- ▶ A preliminary engineering report that includes feasibility-level analyses, cost estimates, and coordination
- ▶ Geotechnical evaluation for wetlands should be performed
- ▶ Analysis of the expected flows during wet and dry weather
- ▶ Soil remediation analyses to determine extent of possible existing contamination,
- ▶ Identification of the appropriate water rights for river diversions
- ▶ Analysis of the effects of increased water demand from vegetation and wildlife
- ▶ Biological studies for wildlife needs for habitat restoration and preservation areas
- ▶ Hydrologic and hydraulic modeling to determine potential for channel naturalization
- ▶ An Environmental Impact Report/ Statement (EIR/EIS) may need to be completed to assess any potential environmental impacts
- ▶ Water quality analysis—including pollutant settling and oxygen demand
- ▶ Air quality assessment should be performed
- ▶ Study to assess the potential for planting native vegetation to restore the historic habitat and ecological function of the waterway wherever possible while still maintaining its primary function for reducing the flood risk to adjacent communities