



PRESENTATION TO CITY COUNCIL

Calimesa Creek Master Plan



Calimesa Creek Master Plan



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Calimesa Creek Master Plan

Project Overview

Purpose

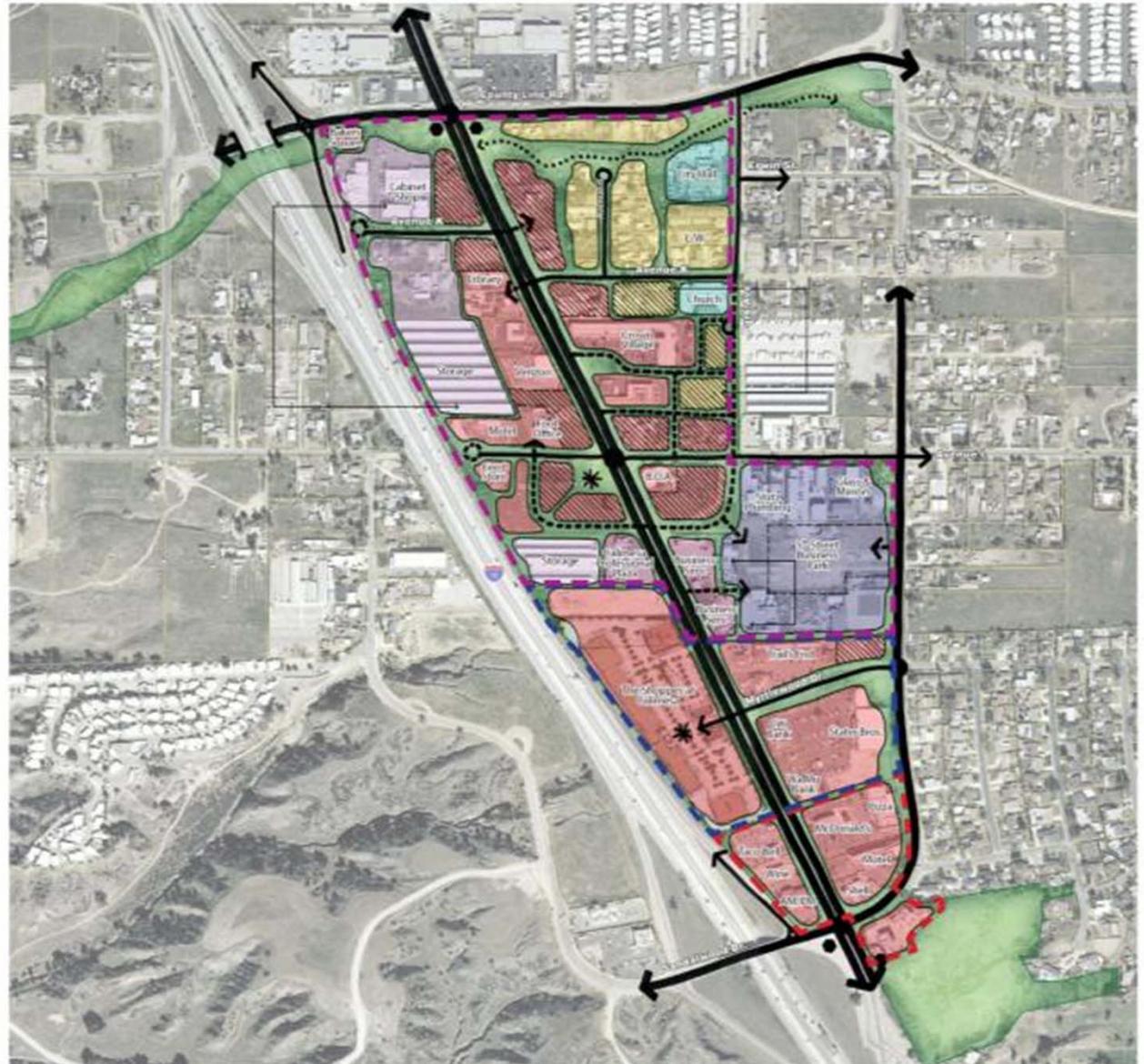
- Facilitate implementation of the new **Downtown Business District Code**

Goals

- Enhance the Calimesa Creek area as a **gateway** and **amenity**
- Improve **parking** conditions in the Downtown Business District

Process

- Assess** constraints and opportunities
- Develop **conceptual** creek system & design alternatives
- Develop strategic **development** plan, including parking
- Determine **next steps** for future funding and implementation





Calimesa Creek Master Plan

Master Plan Report

Introduction

- Background
- Project Site Overview
- Community Involvement

Creek Master Plan

- Overview
- Creek Drainage System
 - Alternatives and Preferred System
 - Landscape Palette
- Creek Design & Development
 - Design Scenarios
 - Development Strategy
 - Streets and Frontages
 - Gateway Concepts
- Administration & Implementation
 - Future Considerations
 - Next Steps





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Calimesa Creek Restoration Opportunities & Benefits

- Creation of a new recreational amenity
- Enhance community identity at the gateway to the City
- Provides link or connection with adjacent neighborhoods
- Ability to provide natural setting and riparian habitat in Urban Environment





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Creek Restoration In Urban Settings Offer Unique Opportunities

- *Flood Control Is Not Ugly*
- Transform derelict land into a greenway for more liveable community
- Inherent recreational opportunities
- Embodies responsible management of water related public assets
- Catalyst for commercial, civic, and cultural activities
- Hidden flood control functions





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Study Area





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Calimesa Creek – Watershed Area





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Calimesa Creek

Current Conditions

- Unstable Bank Erosion
- Vegetation Overgrowth
- Undersized Culverts



Other Challenges

- Mapping of FEMA flood hazard zones
- Confinement of the FEMA Zones to the Creek Restoration Area





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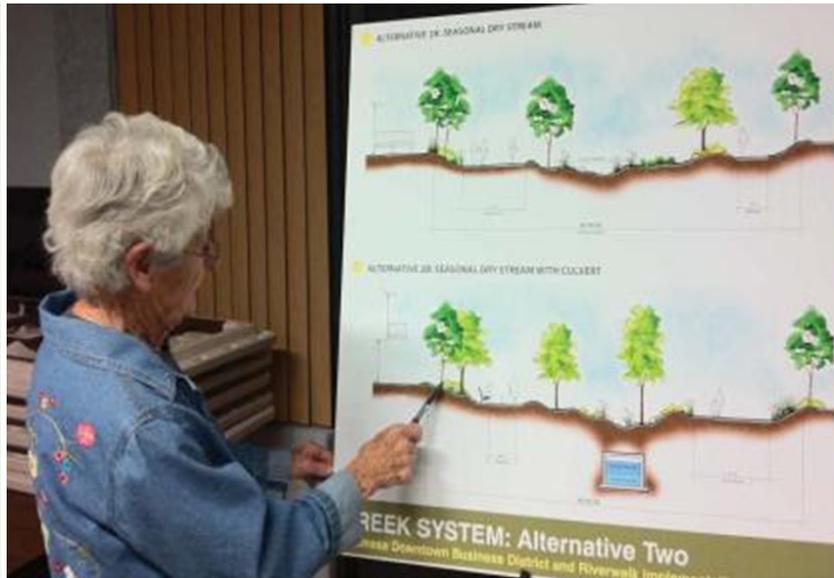
Community Involvement

Ad Hoc Creek Committee

- City Council, Planning Commission, Public Works and Safety Commission, Trails Commission, Community Services Commission, and the business community
- Committee met five times to conduct a site visit, discuss pertinent issues, review design alternatives, and provide input on the final conceptual plans for Calimesa Creek

Public Workshop

- Attended by members of the community, including residents, business owners, and other interested parties from neighboring areas and the City of Yucaipa
- Overview of the project, existing conditions, analyses of the drainage system, parking conditions, and proposed creek design alternatives
- Open forum for questions and answers

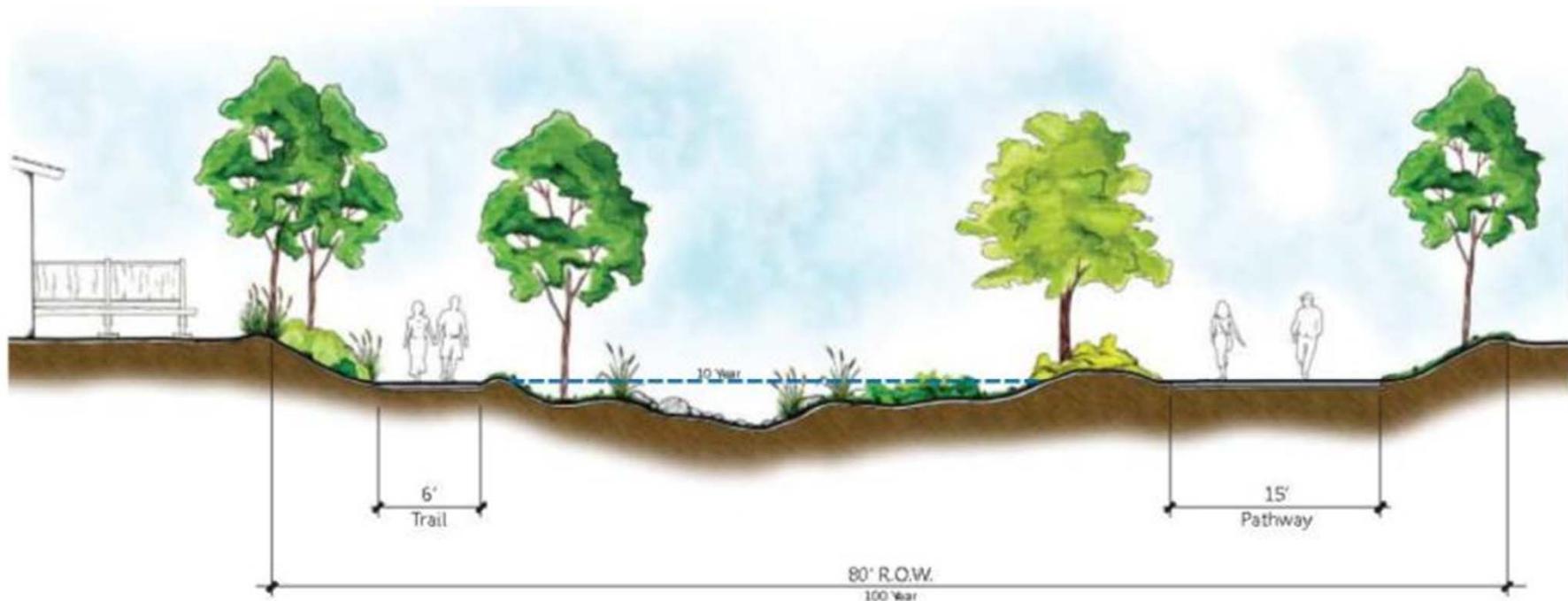




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Alt.1 – Seasonally Dry Stream

- Rehabilitates the creek bed as a rock-bottom channel to resemble a naturally vegetated dry stream with seasonal water flow.
- In addition to providing access to and along the creek, both the pathway and trail are designed for peak flow conveyance in the case of 100-year storm water levels.
- Estimated Construction Cost: \$572,680

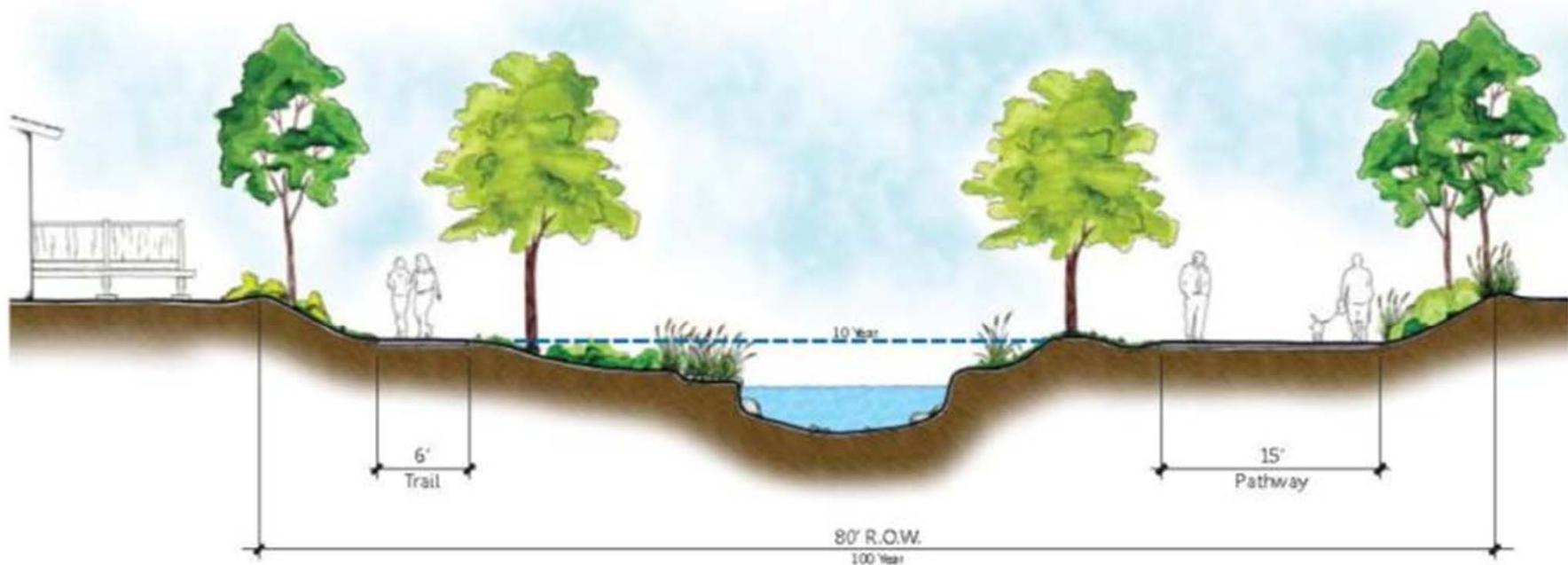




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Alt.2 – Recirculated Stream

- A natural flowing stream throughout the year through the use of drop structures and pumps. A series of small waterfalls may be used to slow water flow speed and provide visual interest.
- Both the pathway and trail are designed for peak flow conveyance in the case of 100-year storm water levels, thus reducing the overall required right-of-way for the creek and trails to 80 feet.
- Estimated Construction Cost: \$898,156



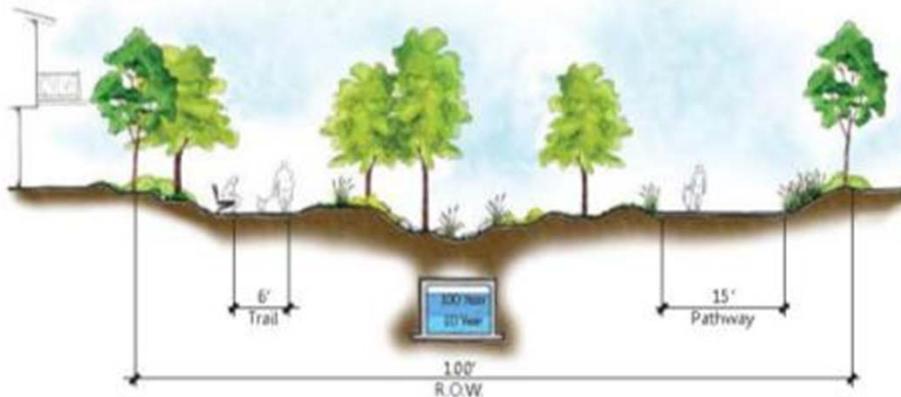


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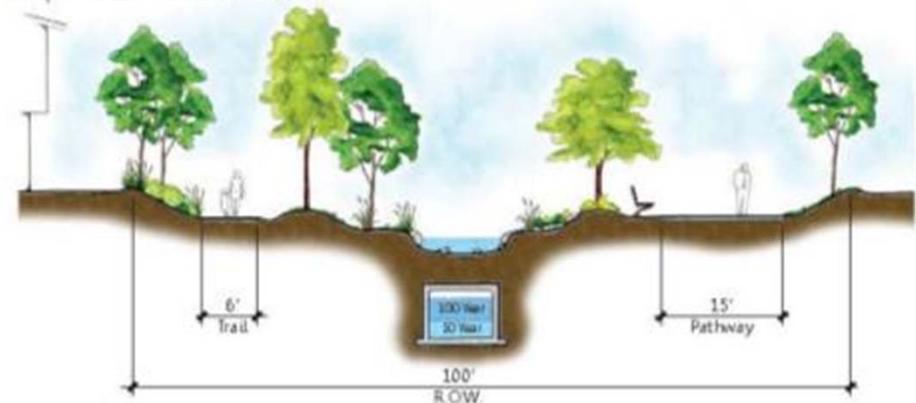
Alt.3 – Culvert Channel

- An underground culvert (8'-wide by 6'-high concrete box) with either a seasonally dry stream (Option A) or a recirculated water feature (Option B) on the surface.
- Features would be similar to other design alternatives.
- Estimated Cost (Option A): \$1,924,098 (Construction) + \$131,000/yr (O&M)
- Estimated Cost (Option B): \$2,207,648 (Construction) + \$122,000/yr (O&M)

► Option A: Seasonally Dry Stream



► Option B: Redirculated Stream





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Preferred Drainage System

- Culvert Channel with a dry stream that can ultimately transition to a recirculated stream depending on available future funding

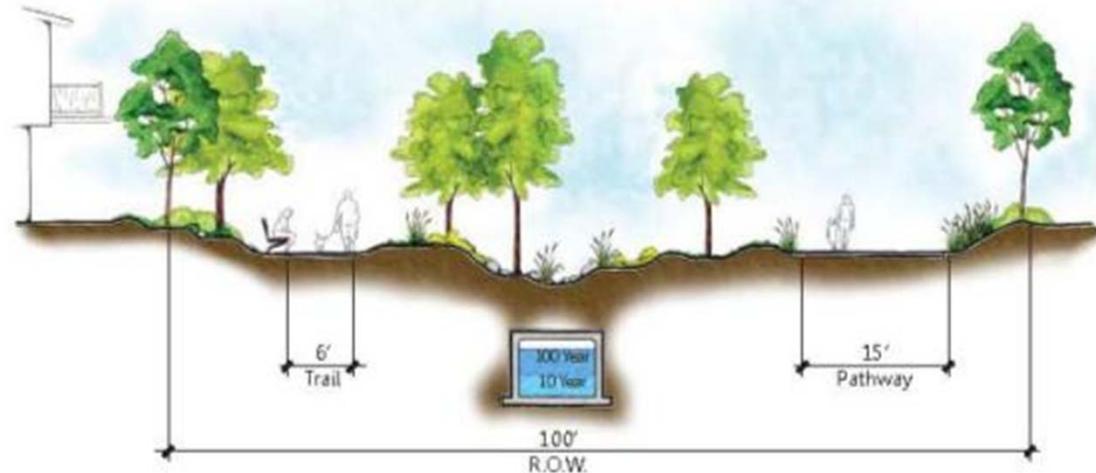
Criteria

- Public Workshop Feedback
- Public Acceptance
- Adjacent Property Impacts
- Financial Implications
- Drainage Efficiency

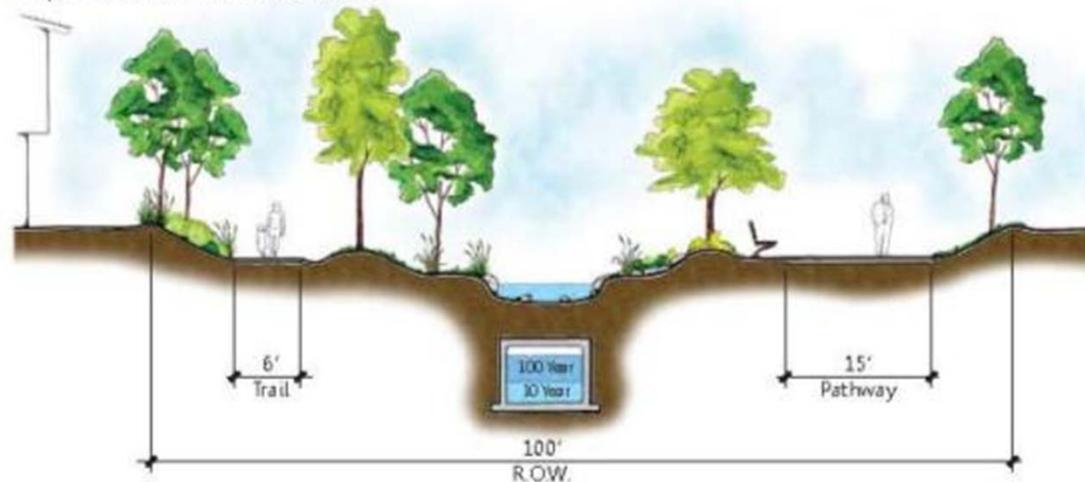
Construction Cost

- Phase 1: \$1,924,098
- Phase 2: + \$54,000

Option A: Seasonally Dry Stream



Option B: Recirculated Stream



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Creek Design Alternative 1

- Min. width of 40 ft each direction from center of creek for total creek width of 80 ft
- Maintains existing creek flowline
- Creek improvements may encroach into some developable land to provide for flood control



Creek Design Alternative 2

- Min. width of 80 to 100 ft from edge of currently developed commercial properties
- Does not take away additional developable commercial property
- Improvements would impact some residential properties more than current conditions





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Existing Conditions

- 13-14 curb cuts
- Individual parking lots of 2-8 spaces each
- No on-street parking



Strategic Development Plan

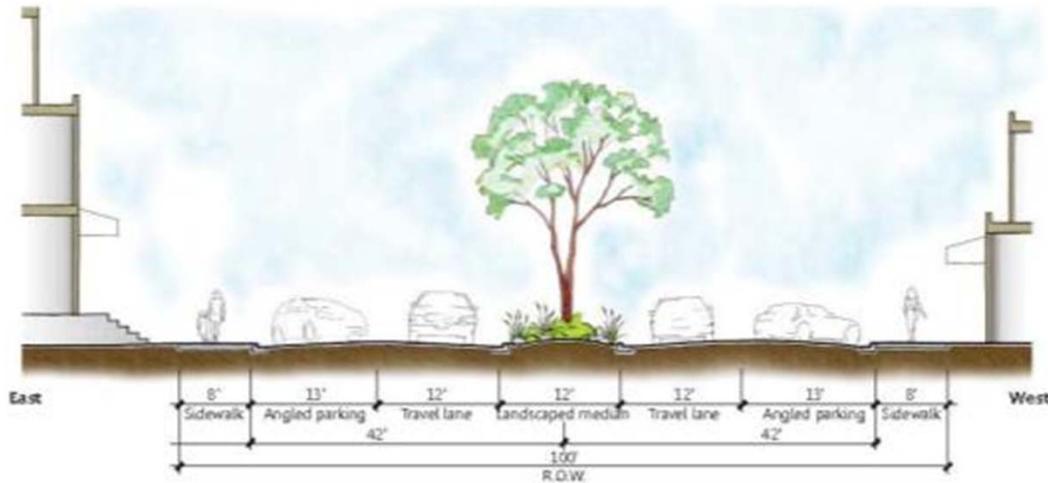
- 4-5 curb cuts - allows greater efficiencies in traffic flow and access
- Shared parking - provide capacity for overflow parking during peak hours
- On-street parking – potential for additional development



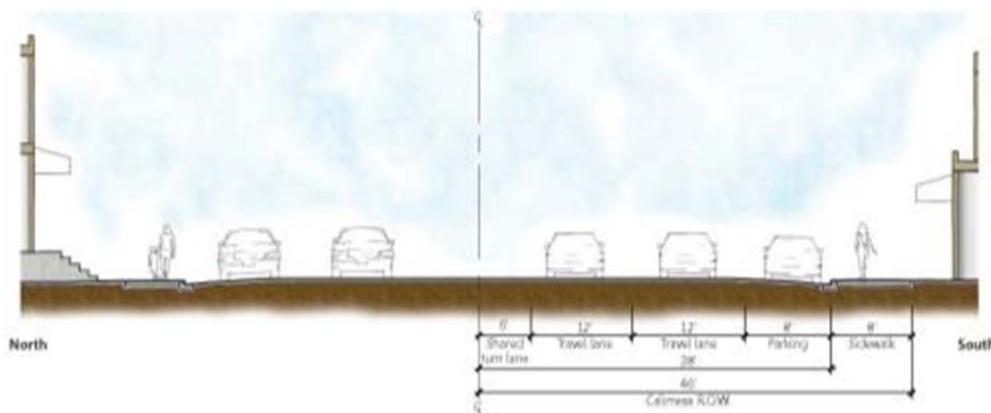


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Calimesa Boulevard



County Line Road





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Gateway Concepts

Concept 1

- Captures the form and spirit of the San Bernardino mountains in the background.
- Visually interesting with the use of horizontal planes at varied levels.





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Gateway Concepts

Concept 2

- Simple and elegant monument design.
- Enhances identification for passing vehicular traffic.





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Gateway Concepts

Concept 3

- A sculptural representation of the local land form.
- Artistically intricate and unique.



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Administration & Implementation

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- Provides series of feasible alternative creek designs that will be the basis for additional study
- Provides preliminary costs estimates for each of the alternatives, including cost of construction, engineering and design, and construction administration (Appendix A).
- Identifies tasks associated with preventative maintenance and routine inspections for each alternative, along with annual operation and maintenance costs (Appendix A).
- Will ***continue to be refined*** through the detailed design process

Figure 14. Planning Process



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Recommended Next Steps

1. TITLE SEARCH

- Confirm ownership of the creek and determine potential easements over the corridor for project construction, ongoing maintenance, and public access.

2. COORDINATION WITH COUNTY FLOOD CONTROL

- Coordination with the County is required to discuss ongoing maintenance of the channel and County requirements for the design.

3. DELINEATION OF JURISDICTIONAL WATERS AND HABITATS

- Identify waters and habitats that may be subject to state or federal jurisdiction and a biological assessment of the creek to determine the presence or absence of any threatened or endangered species.
- Preliminary discussions with the permitting agencies should then be undertaken to discuss mitigation requirements and ratio of impacted area to mitigation area.

4. CREEK CORRIDOR PRELIMINARY DESIGN REPORT

- Preliminary design includes hydraulic elements, overall grading, and channel design (approx. 60% complete detail Preliminary Design Plans).
- Following this task, final design calculations and construction documents can be prepared.

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Recommended Next Steps

5. WATER FEATURE/MANMADE STREAM PRELIMINARY DESIGN

- Preliminary design for creek water feature (60% completion of Construction Plans).
- Water feature plans are separate from channel construction plans to facilitate construction of the water feature as a second phase of project construction.

6. PRELIMINARY LANDSCAPE DESIGN

- Preliminary design of landscape features in conjunction with the Preliminary Design Report.
- Encourage community involvement during this process to promote stewardship and utilize local knowledge and preference
- Prepare final design and construction documents upon completion of Preliminary Design Report.

7. FUNDING OPTIONS

- Explore local funding tools and grant opportunities at both the state and federal level.
 - Value Capture: Infrastructure Finance District
 - Assessment Districts: Landscape and Lighting Maintenance District, Geologic Hazard Abatement Districts
 - California Commerce and Trade Agency: Rural Economic Development Infrastructure Program
 - California Infrastructure and Economic Development Bank: Infrastructure State Revolving Fund
 - Proposition 84: Urban Greening Grant (2013)
 - US Economic Development Administration: Public Works and Development Facilities Program
 - US Department of Agriculture: Rural Housing Service

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Next Steps

- Finalize scope for EPA Grant

- Finalize Master Plan report
 - Final Review
 - Publication
 - Distribution



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Thank You!
