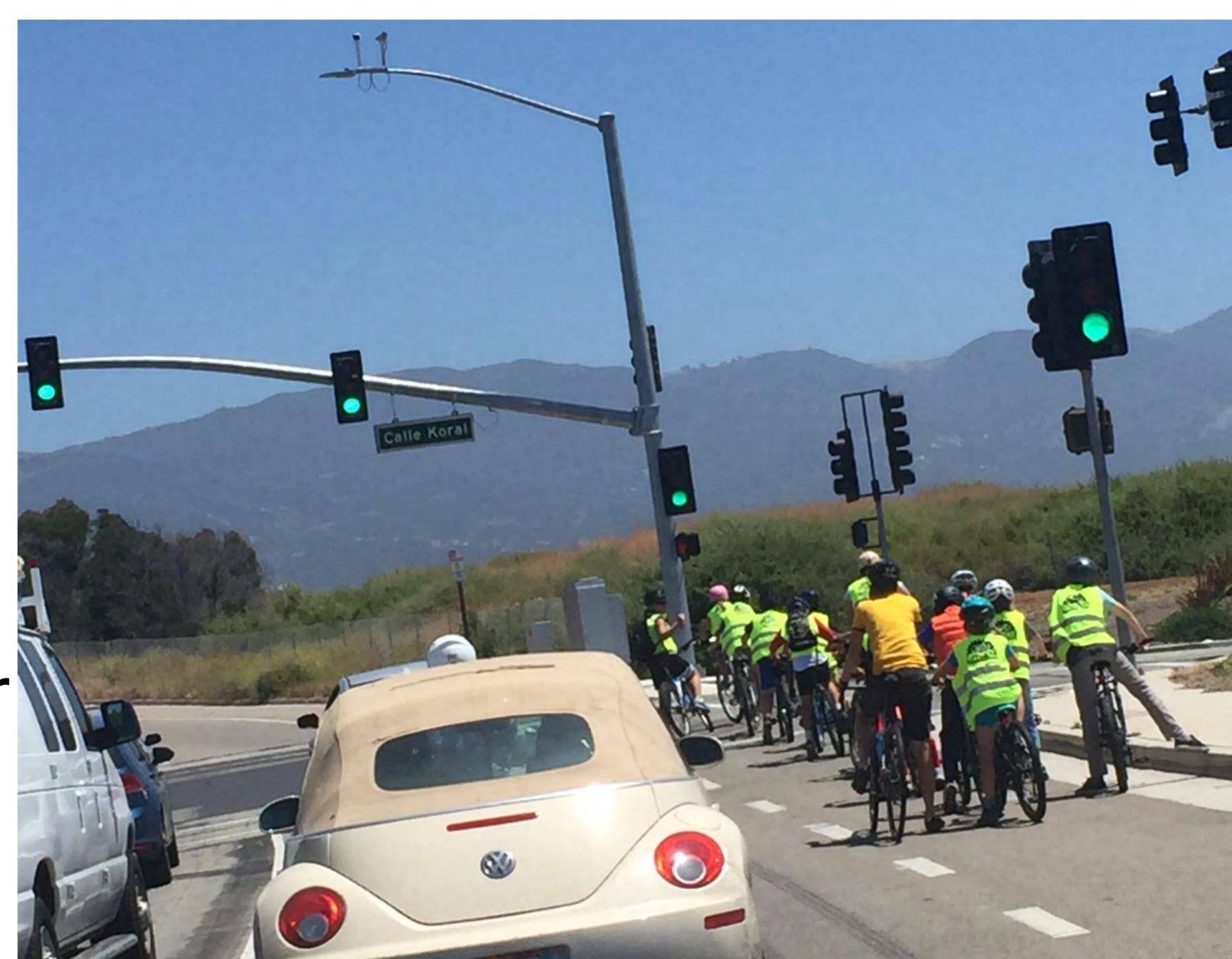
# Bicycle Capital Improvement Program Project Update

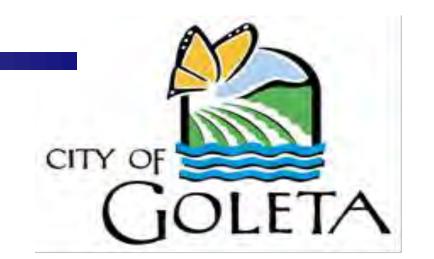
December 5, 2017
Teresa Lopes, Senior Project Engineer
James Winslow, Senior Project Engineer



#### Outline

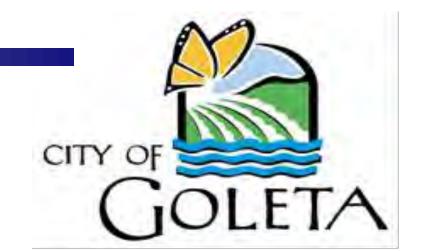
- Overview
- Project list...
  - Purpose and Need
  - Budgets
  - Timeframe
- Question and answer



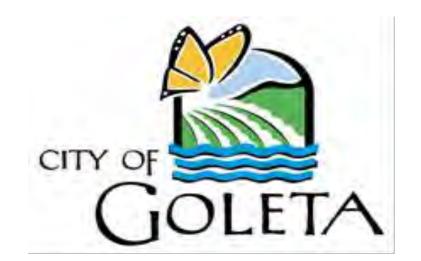


#### CIP

- > 57 Projects
- Bicycle Projects only
  - 9 projects; ~\$11 million
- Other Bike and Pedestrian Improvements
  - 15 projects
- Future grant funding



#### Hollister Class 1 Bike Path/Multi-Use Path



### Hollister Class 1 Bike Path/Multi-Use

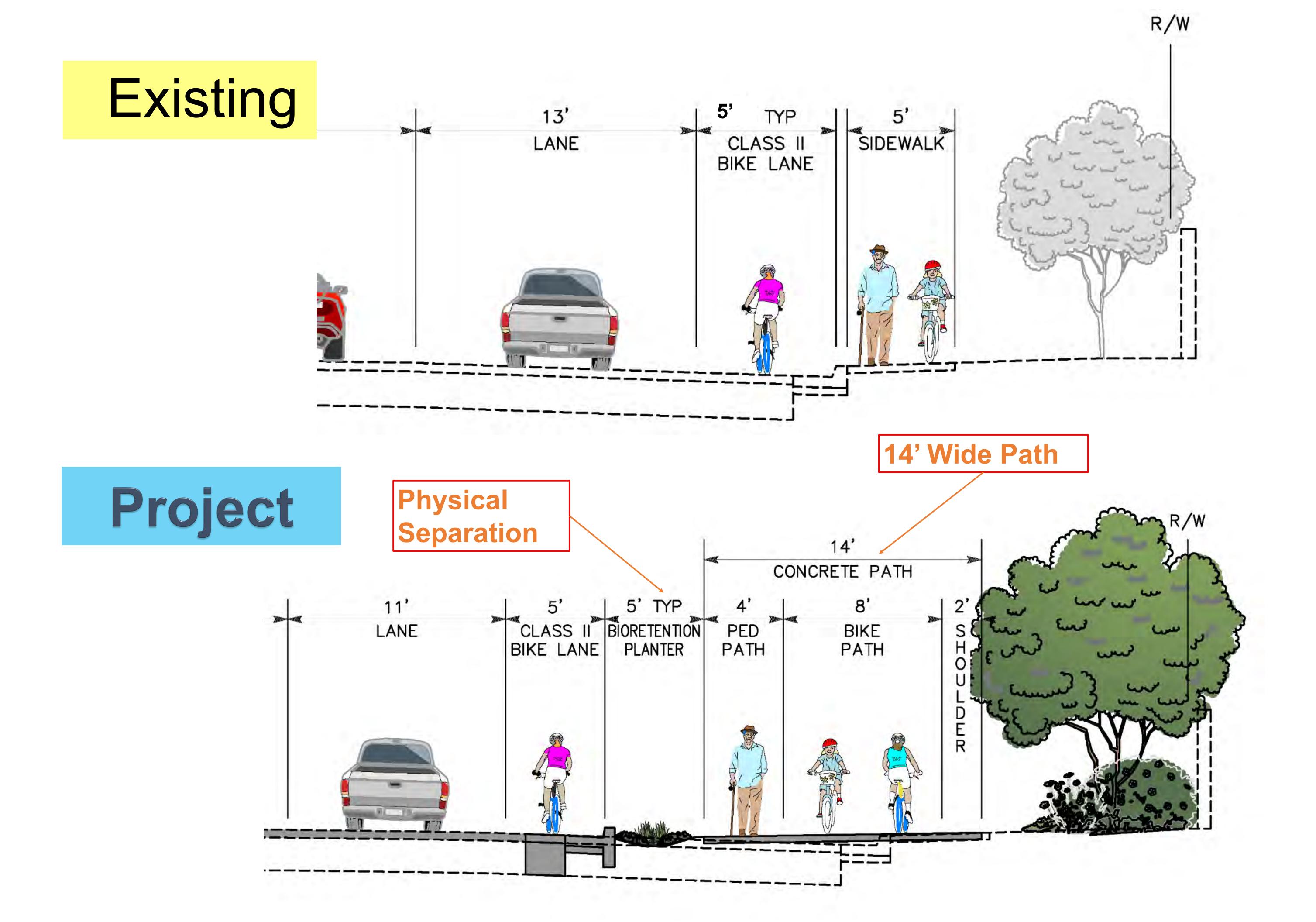
- Purpose and Need
- Budget

Path

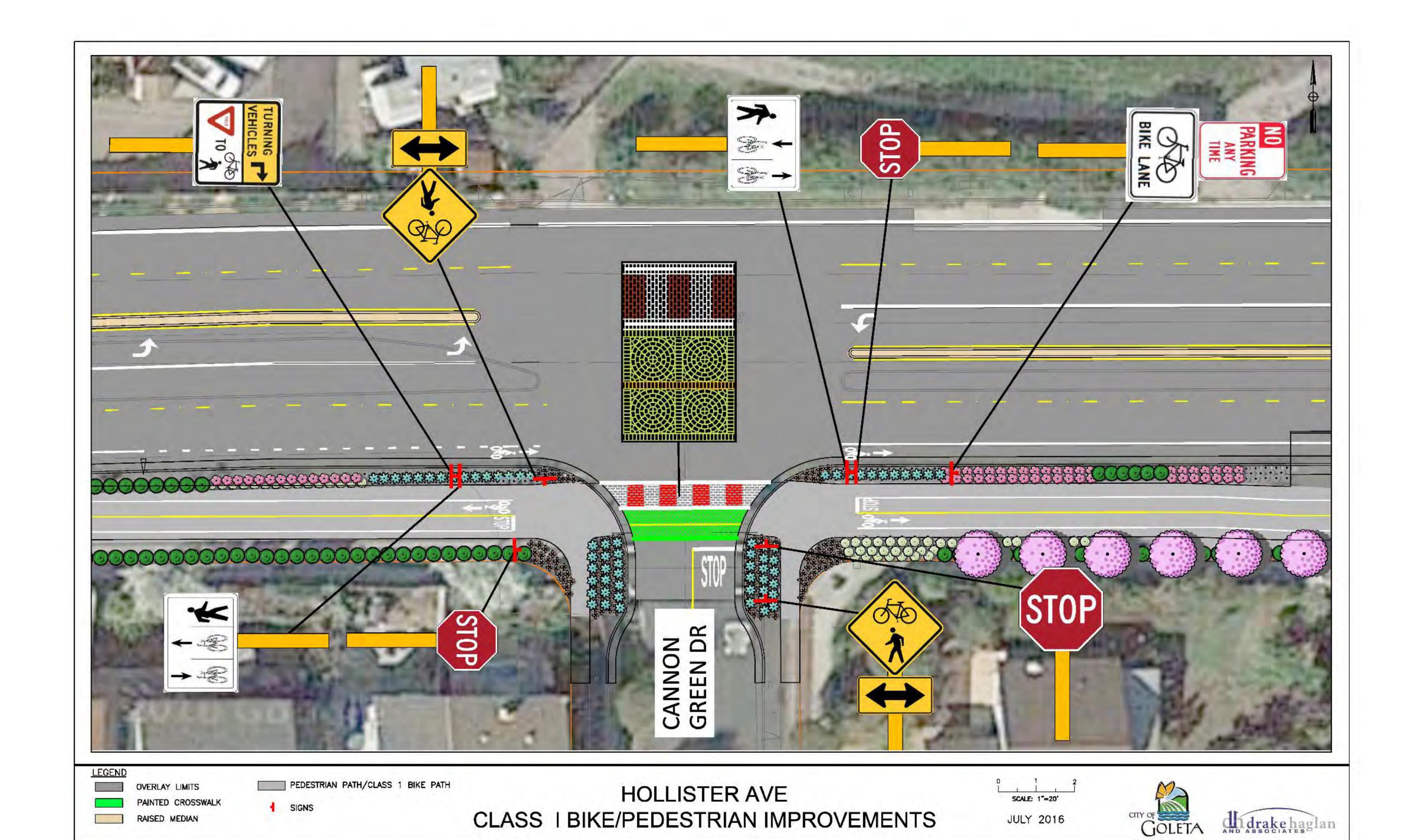
Timeframe



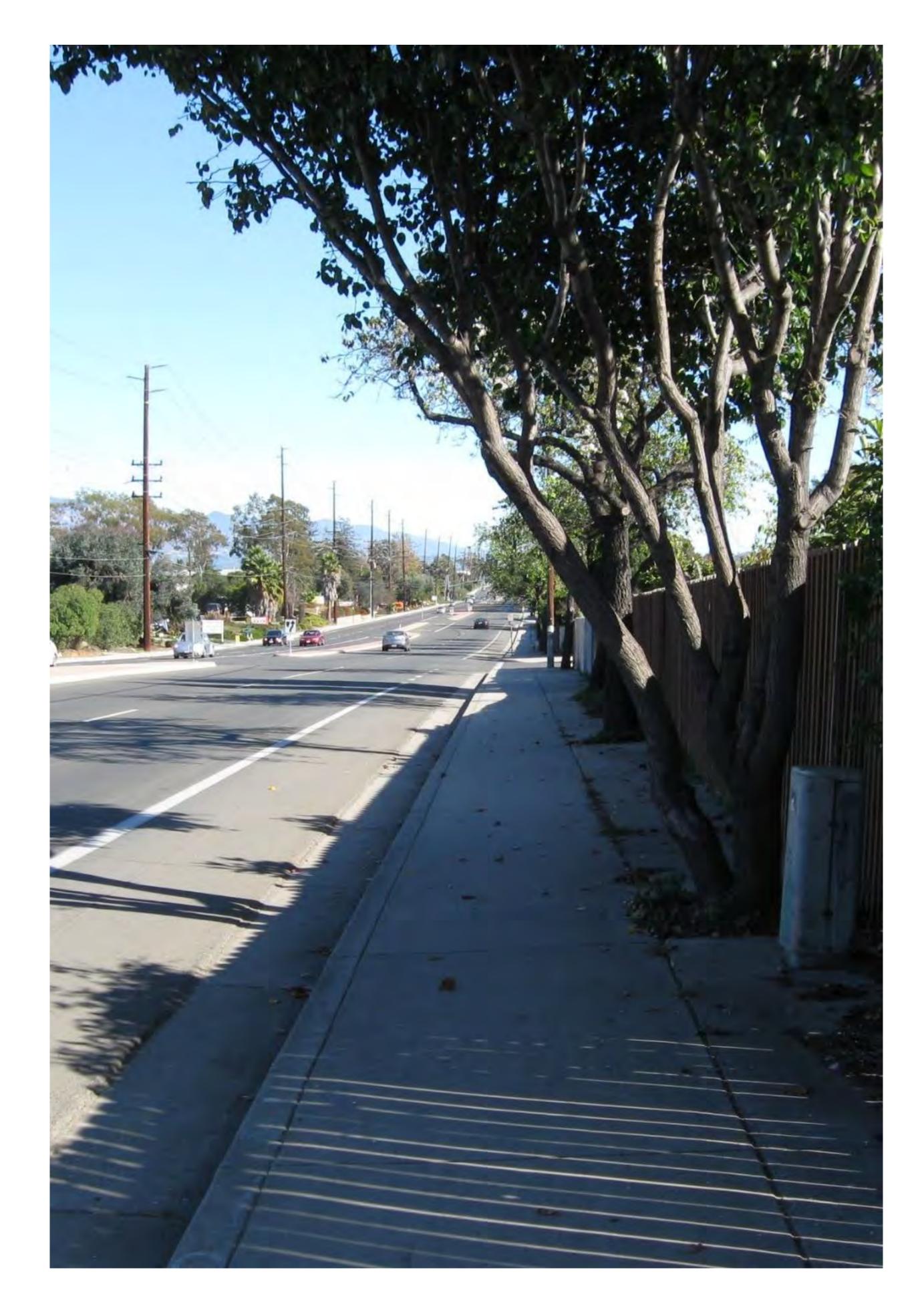


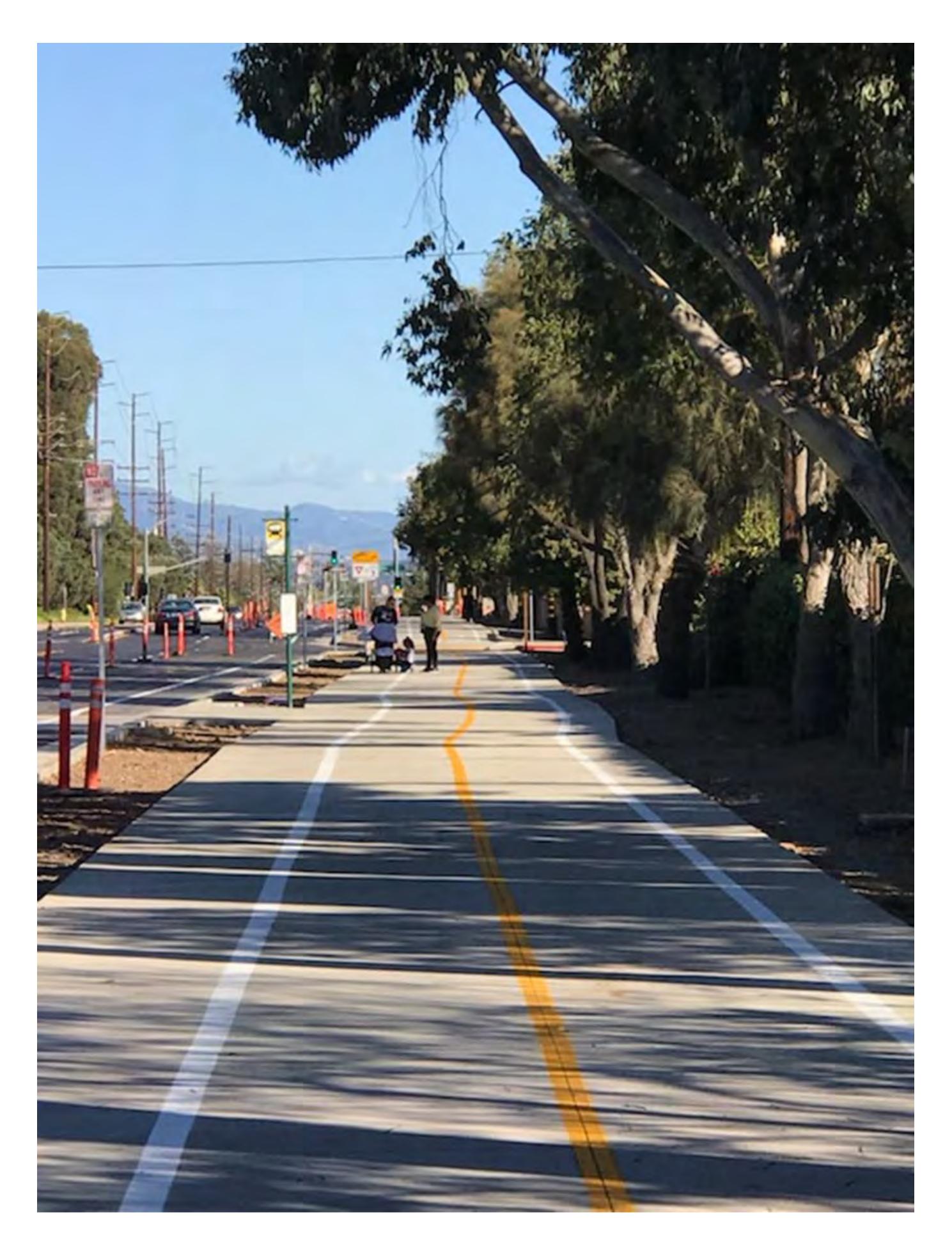


#### Typical Crossing Pavement Markings and Signing



#### BEFORE AFTER





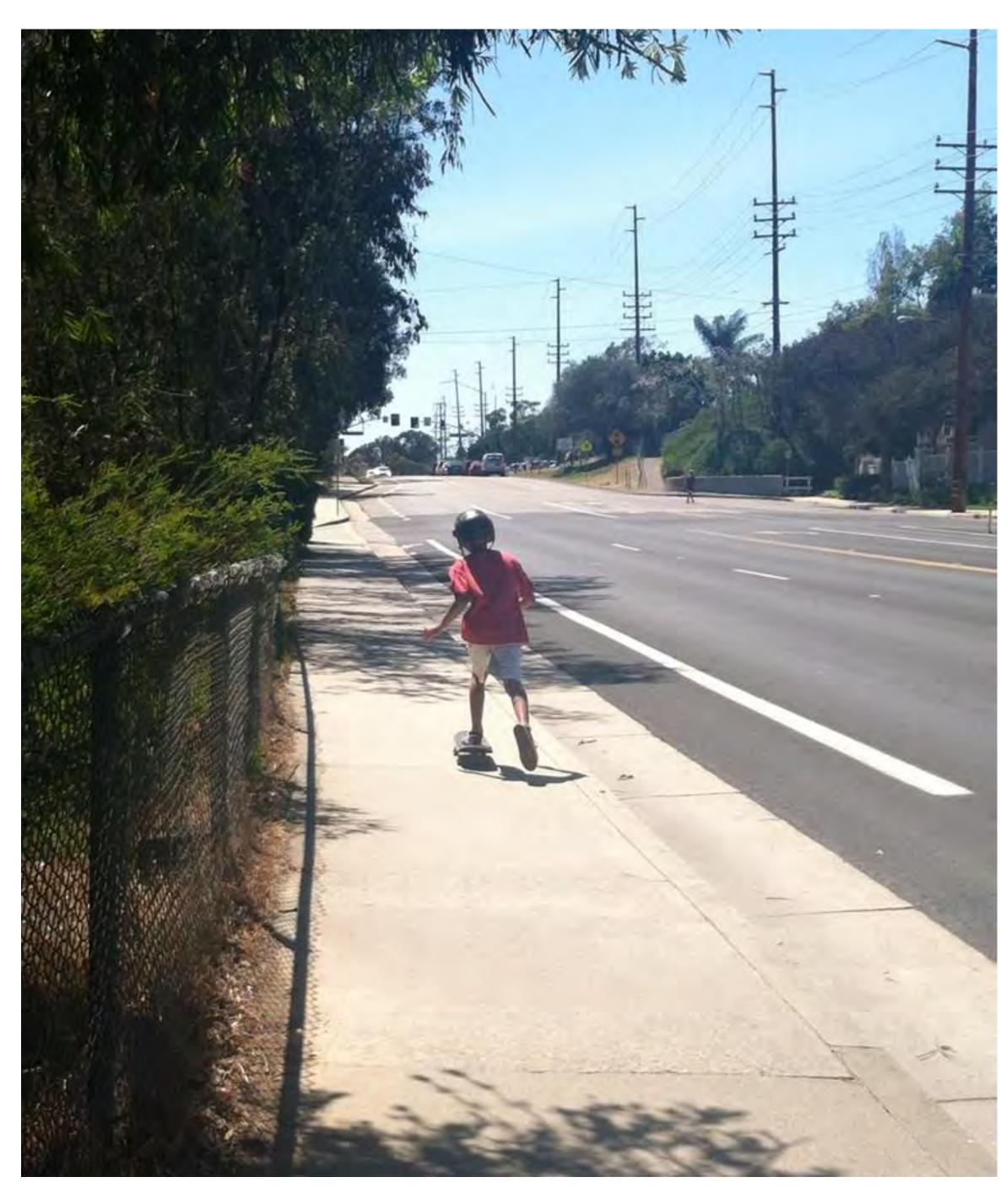


#### BEFORE

#### AFTER

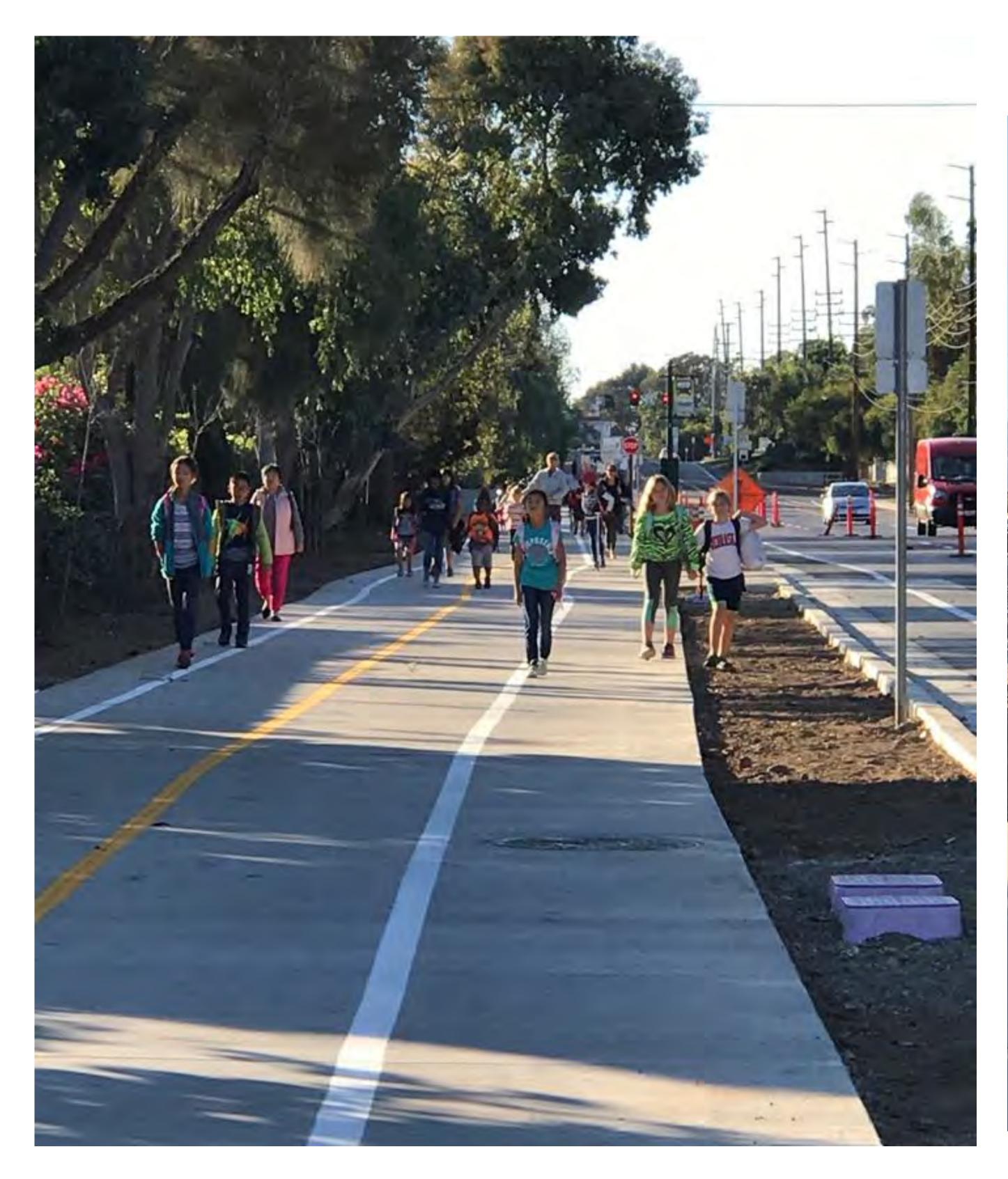


#### BEFORE



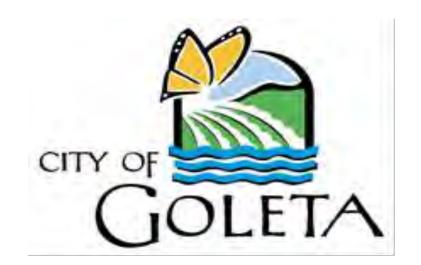


#### AFTER





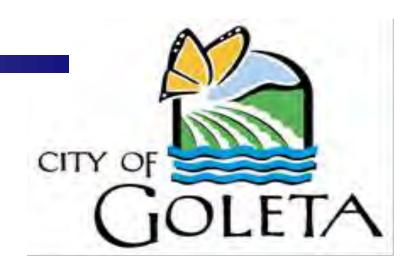
#### Ward Drive Class 2 Bike Lanes



#### Ward Drive Class 2 Bike Lane

- Purpose and Need
- Budget
- Timeframe





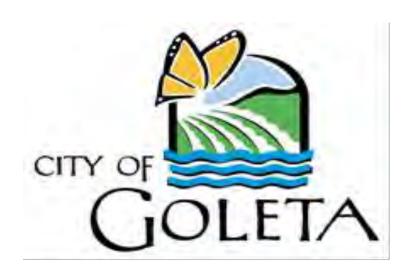




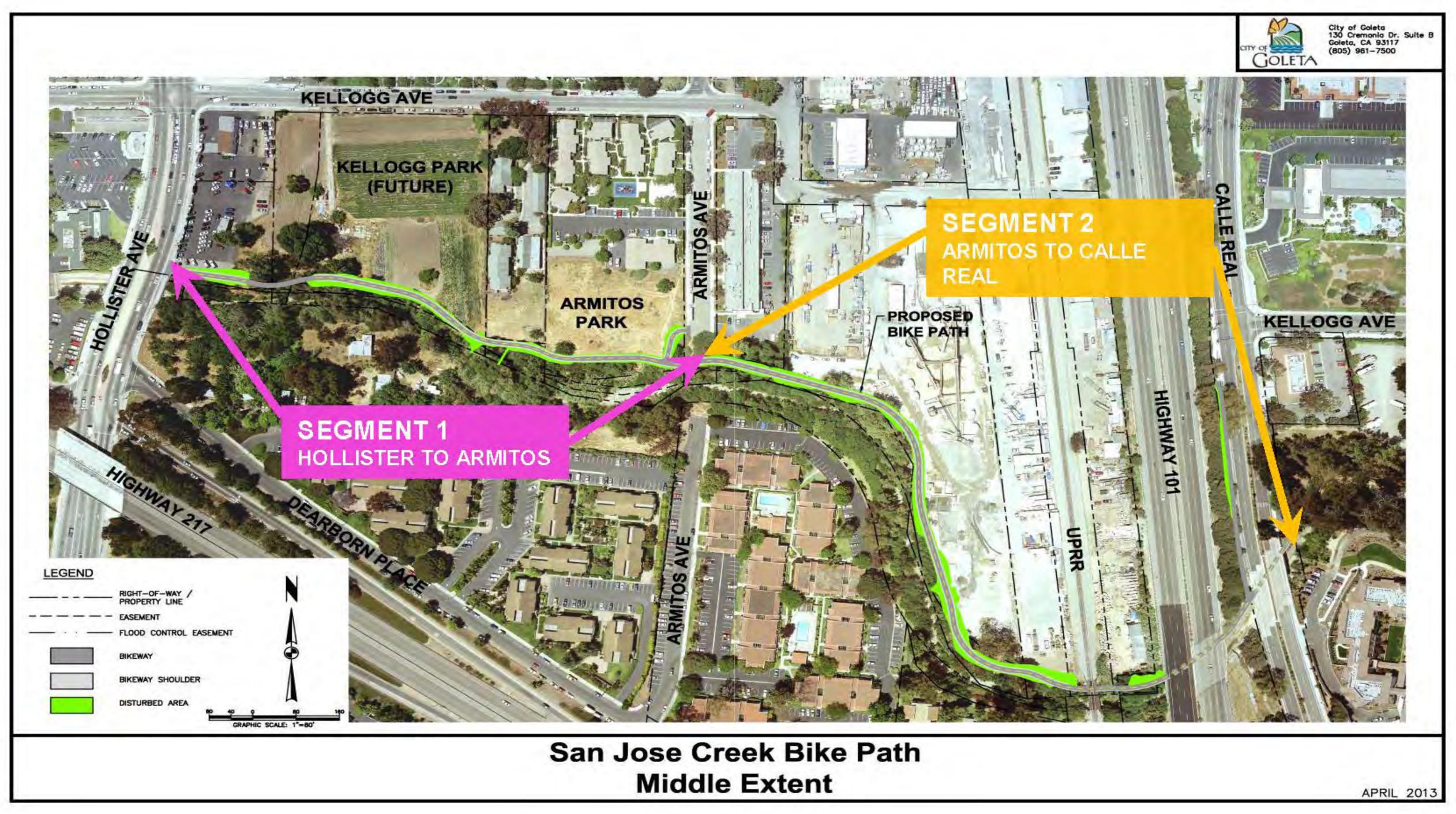


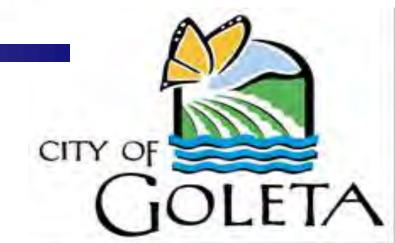


### San Jose Creek Bike Path Middle Extent



## San Jose Creek Class I Bike Path – Middle Extent Project Location Map





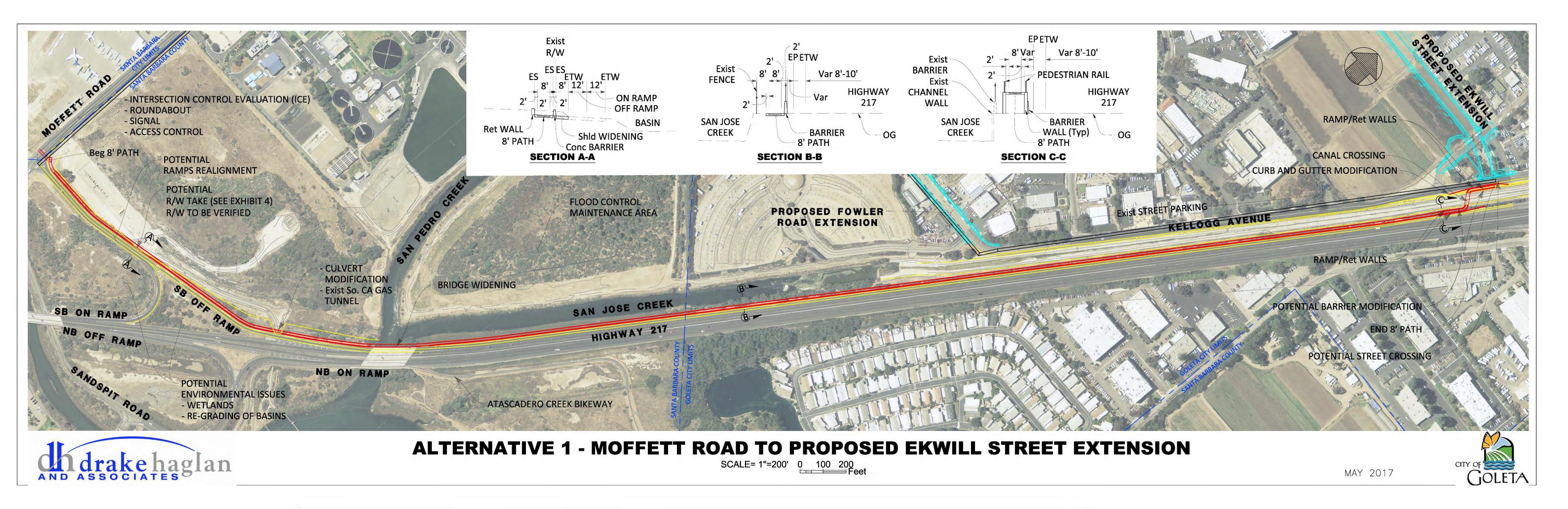
### San Jose Creek Bike Path Southern Extent

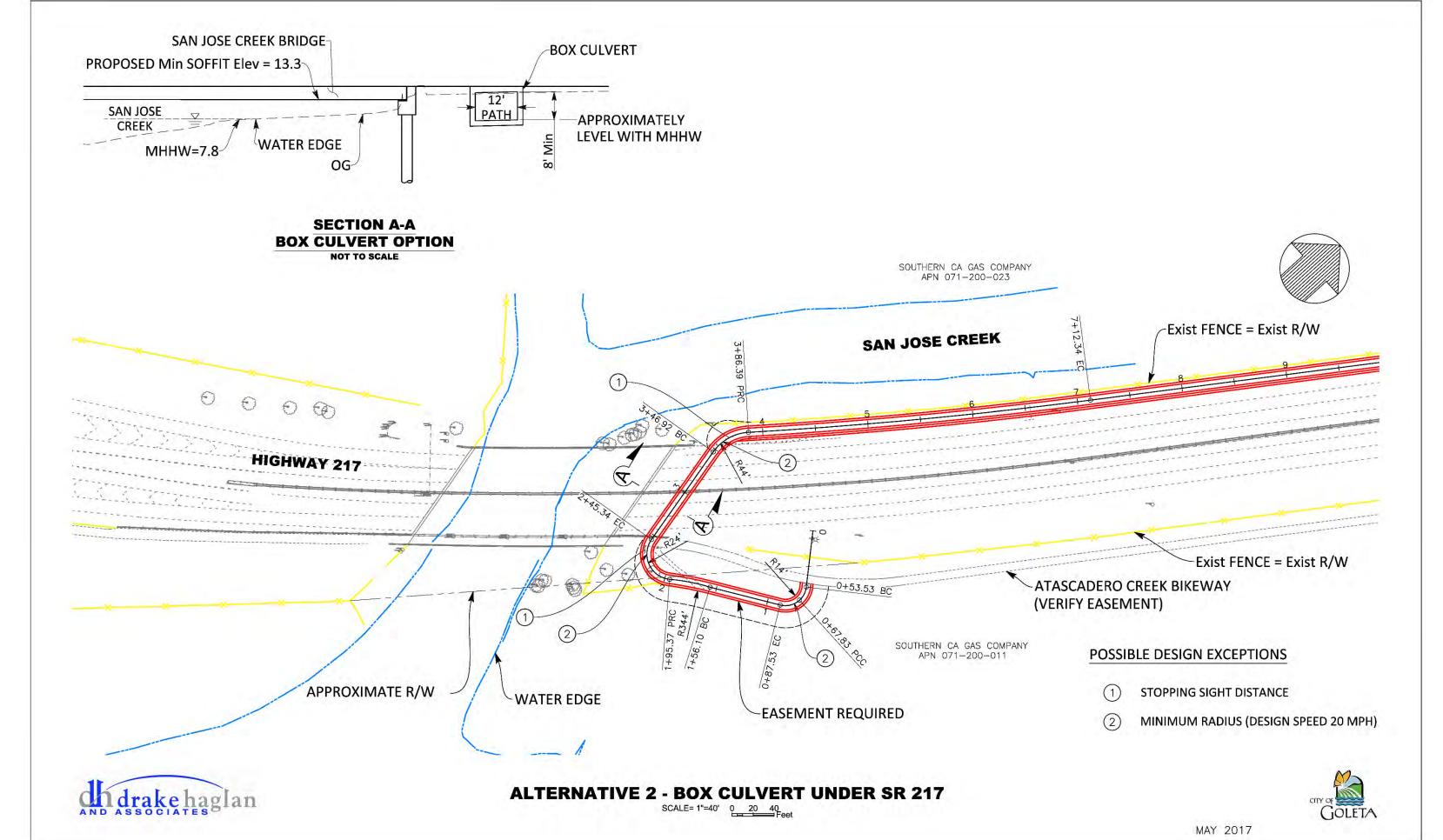


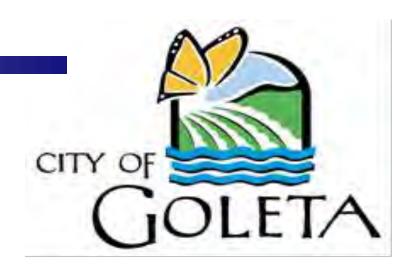
### San Jose Creek Bike Path Southern Extent

- Purpose and Need
- Budget
- Timeframe

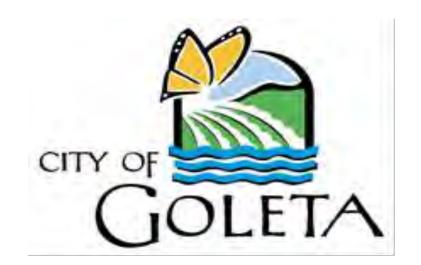








#### Cathedral Oaks Class 1 Bike Path





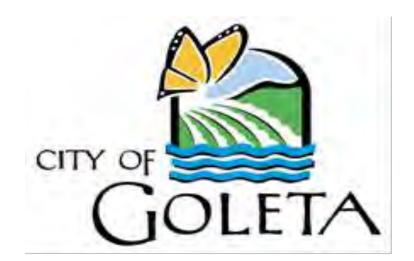
#### Cathedral Oaks Class 1 Bike Path

- Purpose and Need
- Budget
- Timeframe



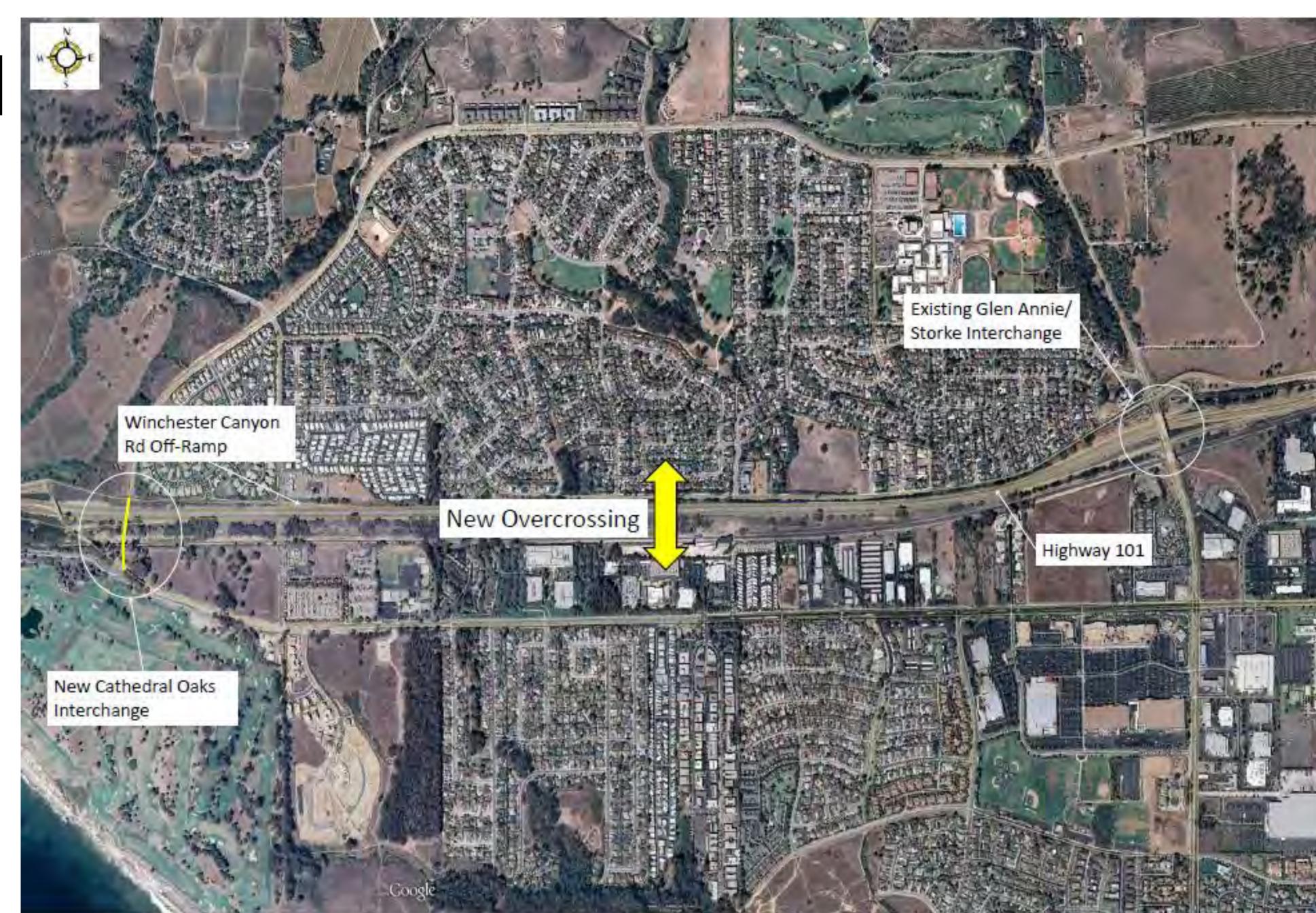


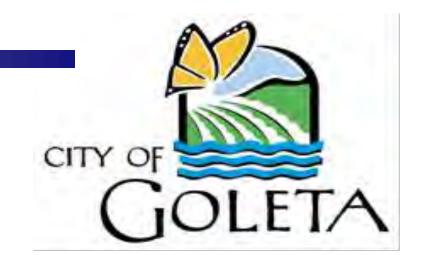
### 101 Overcrossing

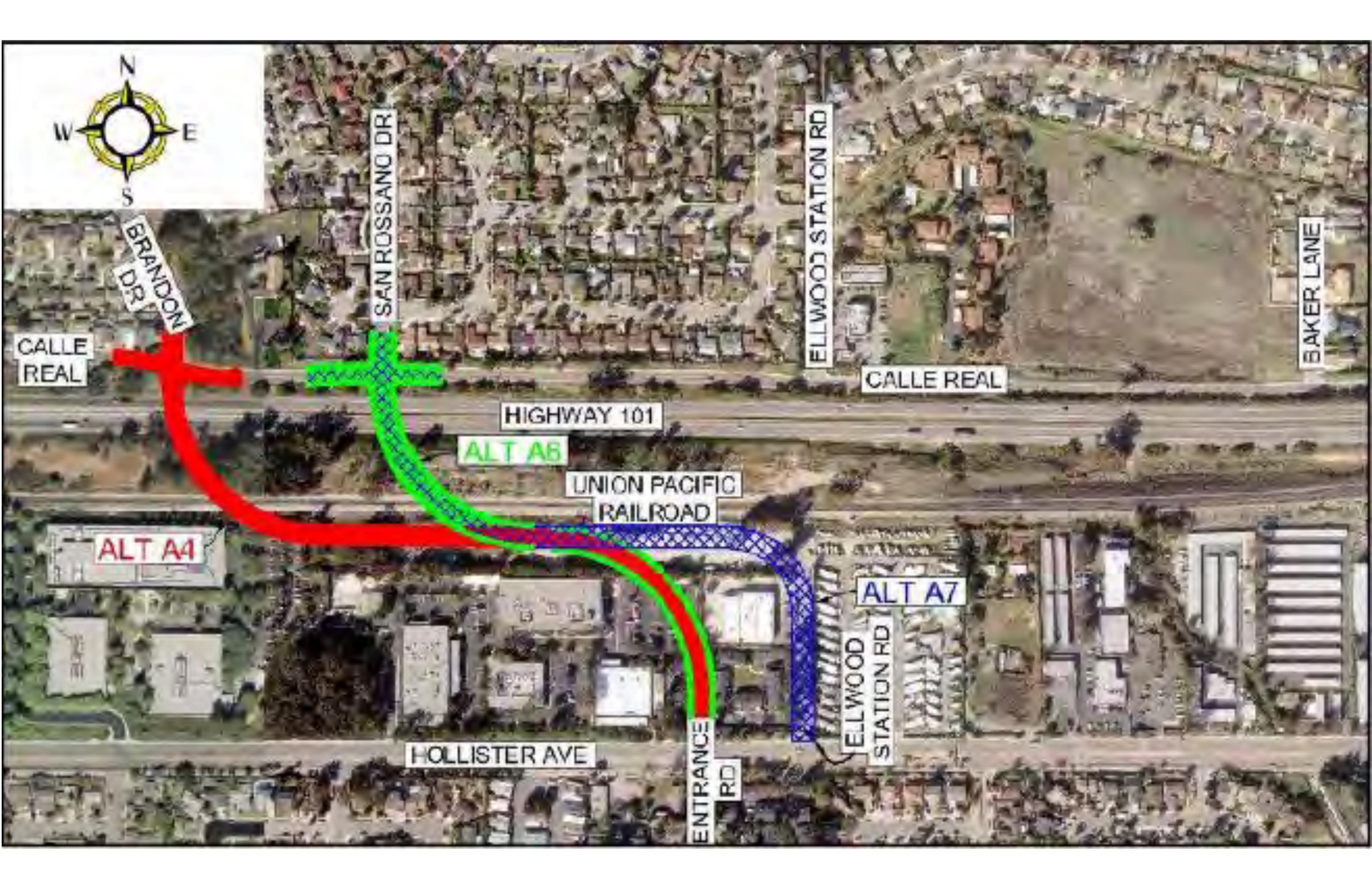


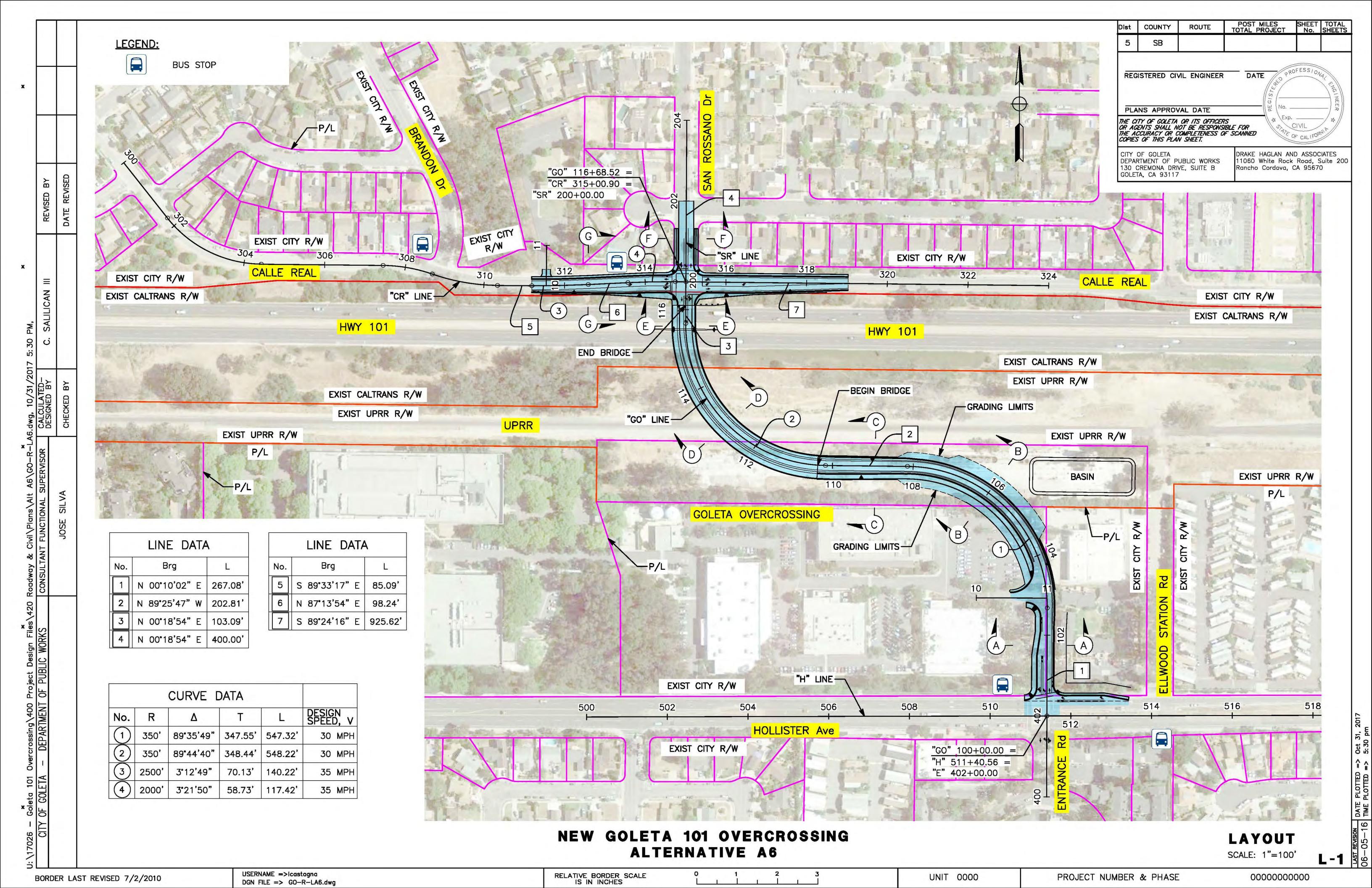
### 101 Overcrossing

- Purpose and Need
- Budget
- Timeframe

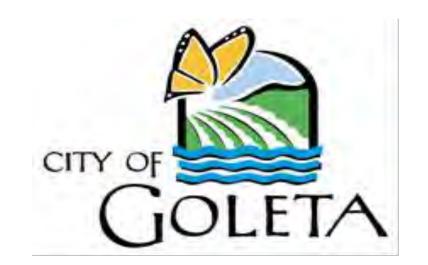








#### Fairview Overcrossing Class 1 Bike Path



#### Fairview Class 1

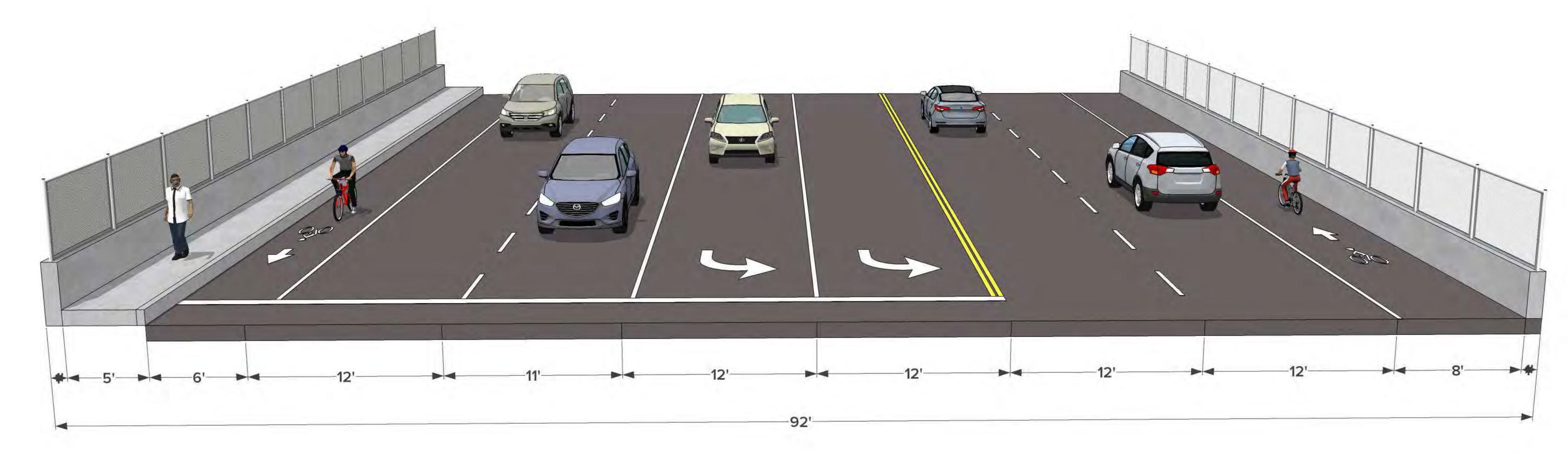
- Purpose and Need
- Budget
- Timeframe



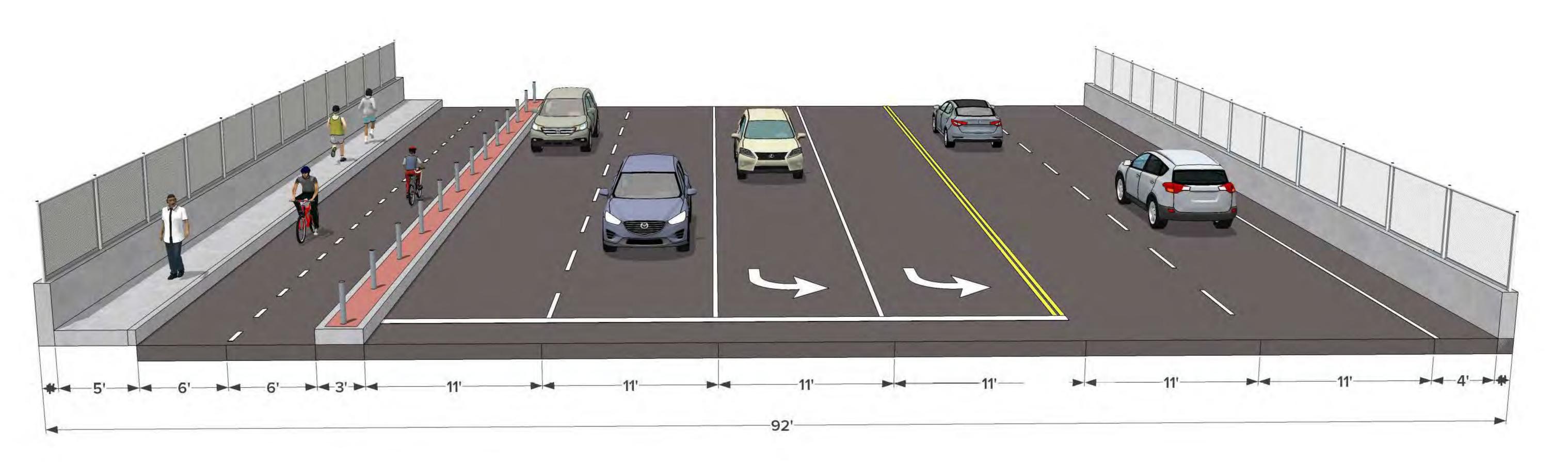


# POTENTI/ OVERPASS 101 oncept FAIRVIEW AVE Corridor Entire





**Existing Conditions** 



Proposed Layout

#### Recommendations and Next Steps

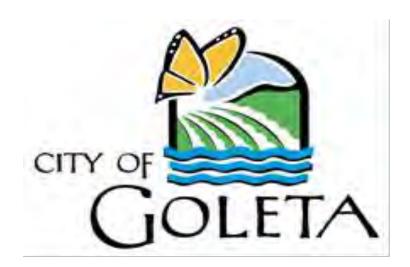
- Planning Commission (65401)
- New project & budget
- Submit joint ATP grant application



### Coordination



#### Storke Road Evaluation





#### Storke Road Evaulation

- Purpose and Need
- Budget
- Timeframe



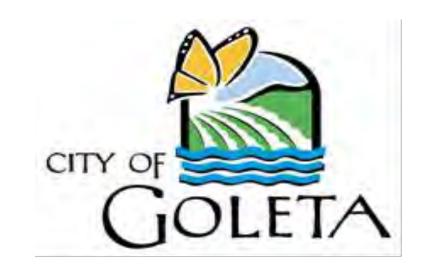








### Hollister Complete Streets Corridor Plan



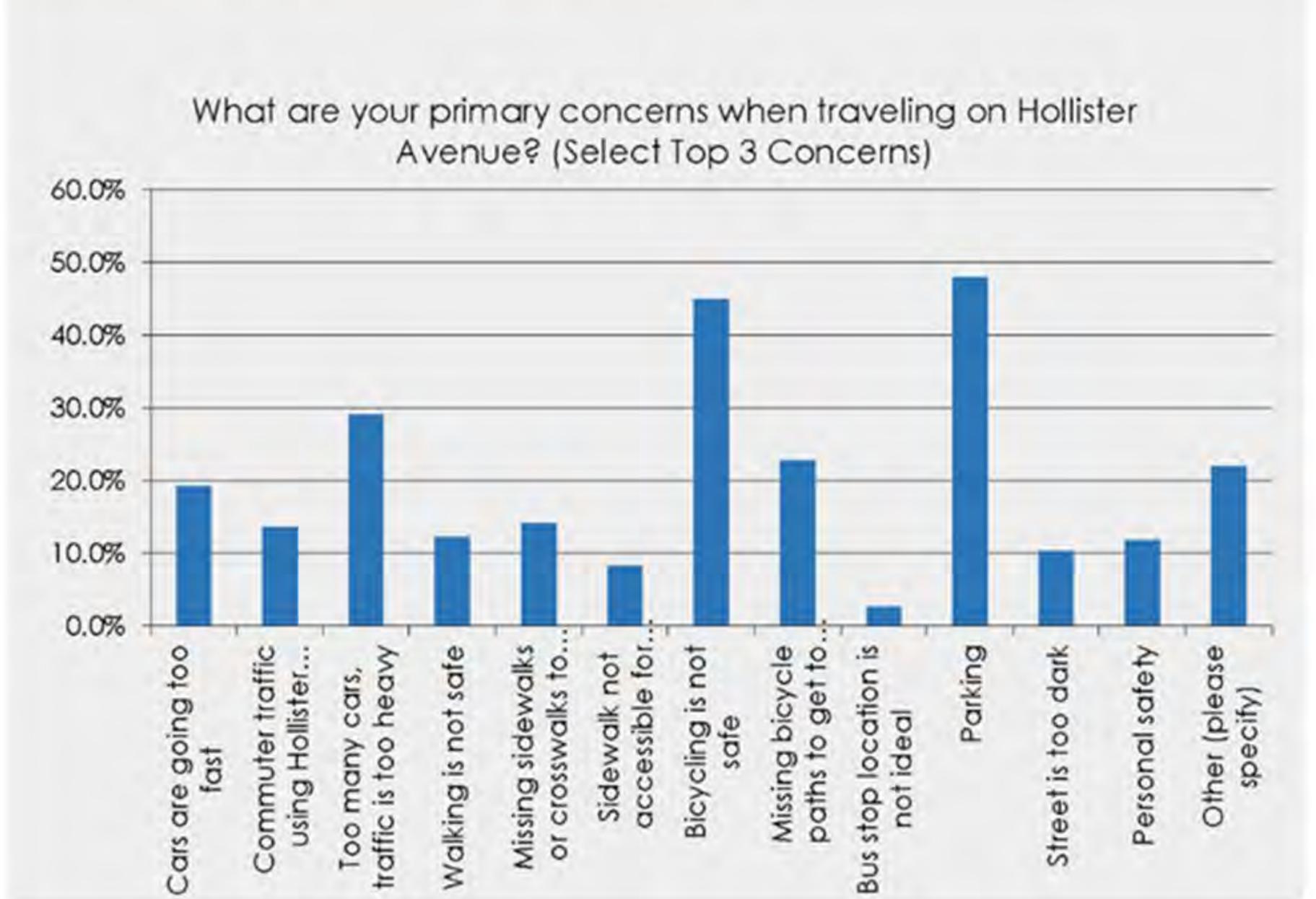
### Hollister Complete Streets Corridor

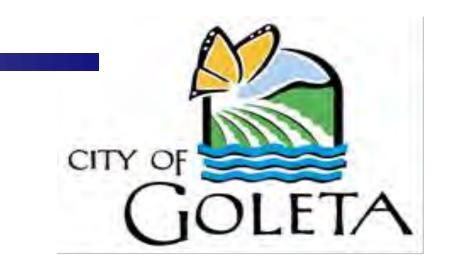
Figure 5.3 Online Survey Question 5 - Areas of Concerns

### Plan

- Purpose and Need
- Budget
- Timeframe





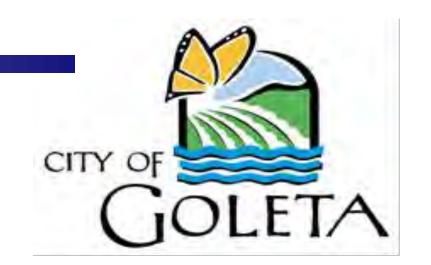


## Goals and Objectives

- Make Hollister Ave through Old Town Safer for all travel modes and for all users
- Provide safe and convenient multi-modal connections to residents, employees and visitors
- Improve the quality of life in Old Town by making Hollister Avenue appealing to walk, bike, drive, shop and dine.
- Maximize Community Engagement
- Community preferred alternative to achieve vision of the project

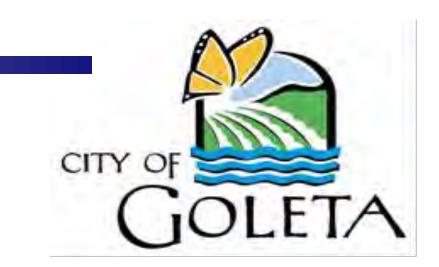
### Challenges and Issues

- Balancing Needed/Desired Improvements in a Constrained Corridor
- Address potential impacts of the plan to adjacent arterials and Hwy 101
- Coordination and Consistency with other ongoing projects in the Old Town area



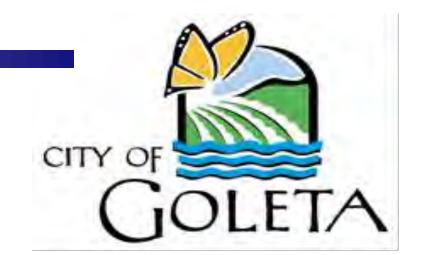
### Past and Current Phase of the Project

- Inventory Existing Facilities, Programs and Conditions –
   Complete
- Outreach to date:
  - Community Workshop April 13, 2017
  - Walking and Biking Tour of Old Town May 6, 2017
  - Stakeholder Meeting No. 1 July 27, 2017
  - Consultant Coordination Meeting August 2017
  - Stakeholder Meeting No. 2 October 25, 2017
  - City Open House November 2, 2017
- Identify Issues Complete
- Needs and Demand Analysis Complete
- Develop Alternatives CURRENT PHASE



### Next Steps

- Presence at Old Town Christmas Parade December 9<sup>th</sup>
- Public Outreach Workshop/Design January 2018
- Business Owners and Property Owners January 2018
- Stakeholder Meeting No. 3 February/March 2018
- Council Workshop Present alternatives along with feedback from public outreach March 2018.
- Finalize Alternatives March 2018
- Draft Complete Streets Plan April 2018



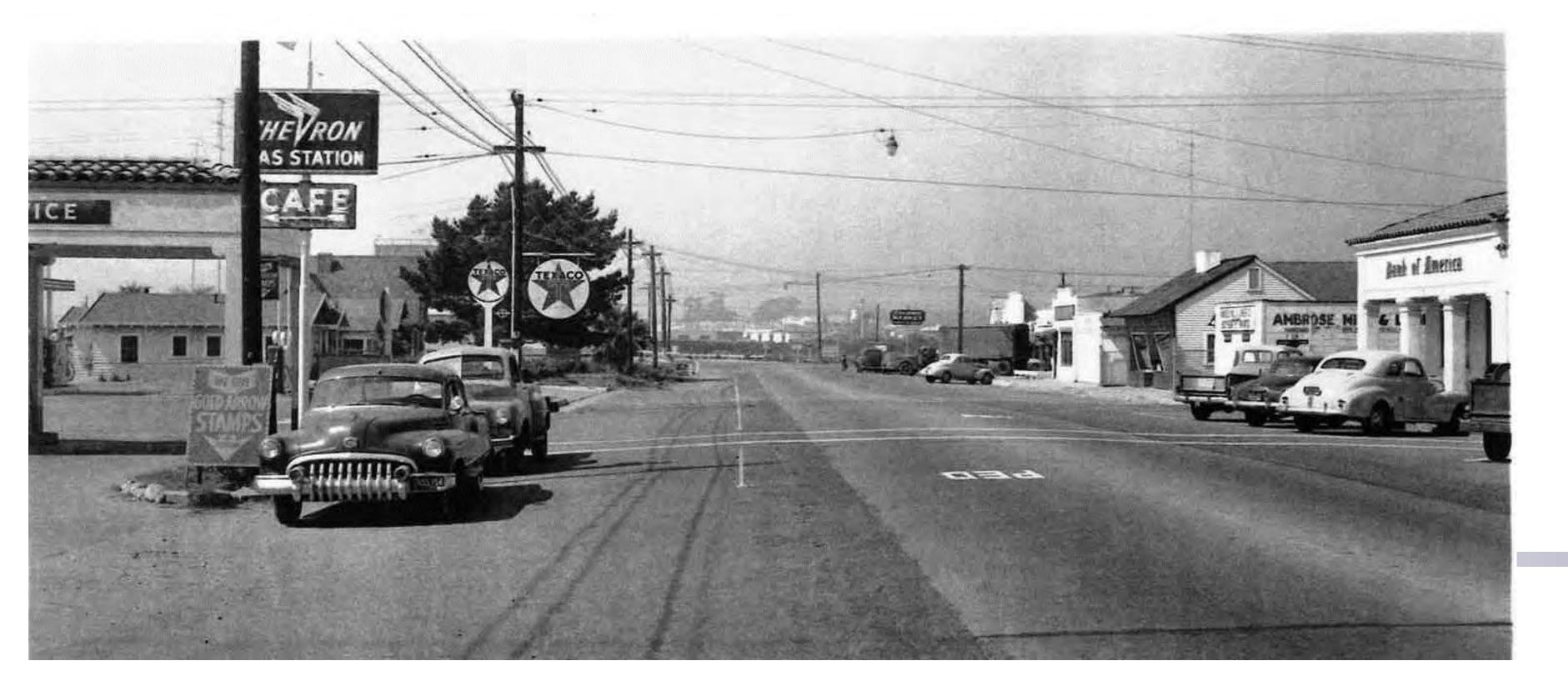


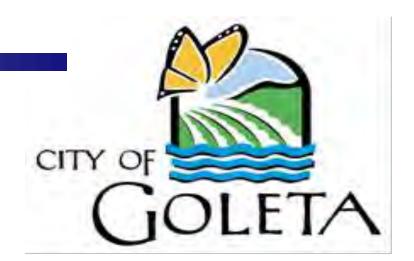
2-Lane Hollister Ave of the Past

#### Complete Street Hollister Ave for the Future



REVERSE DIAGONAL PARKING







# Bicycle and Pedestrian Master Plan



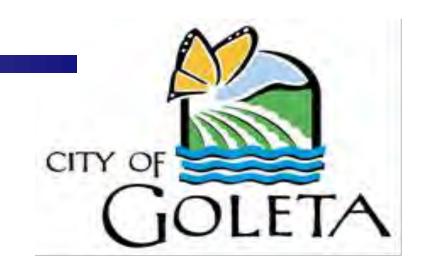


### Bicycle and Pedestrian Master Plan

- Purpose and Need
- Budget
- Timeframe

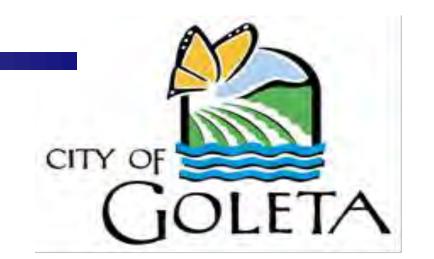






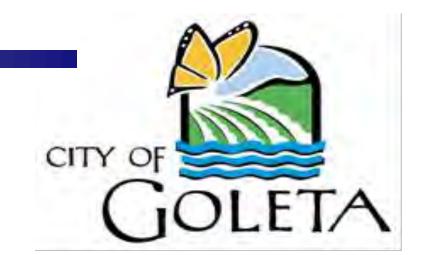
## Project Specific Goals

- Identify Gaps and Barriers (both perceived and actual)
- Developing Metric and Methodology to Prioritize Projects
- Incorporating Design Guidelines
- Encouraging Walking and Biking



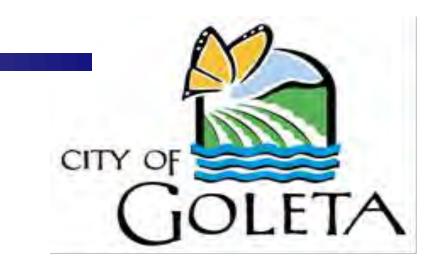
## Grant Primary Objectives

- Promote Public Health,
- Reduce Automobile Usage and Fuel Consumption, and
- Promote Equity.

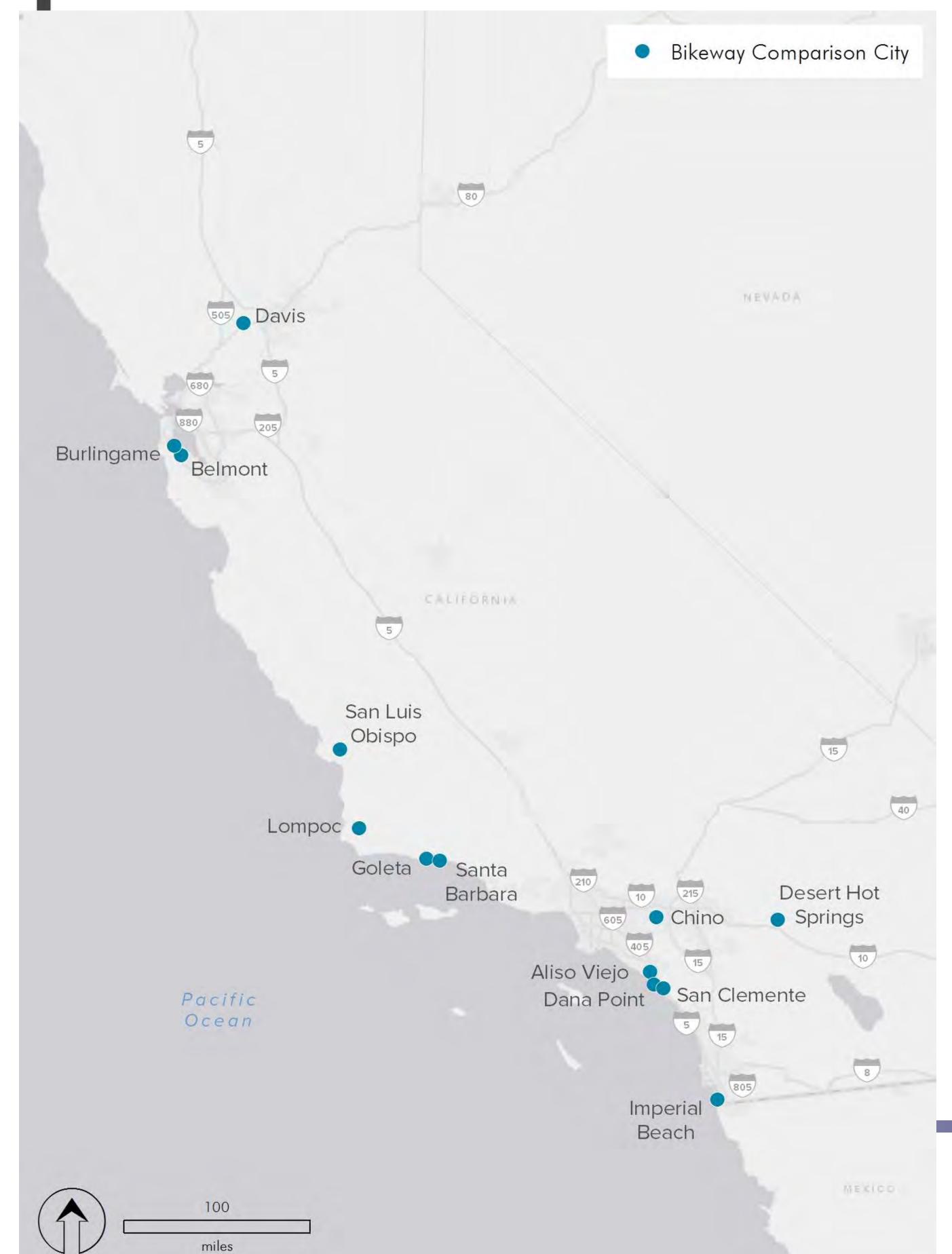


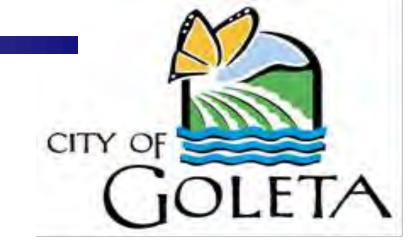
# Challenges and Opportunities

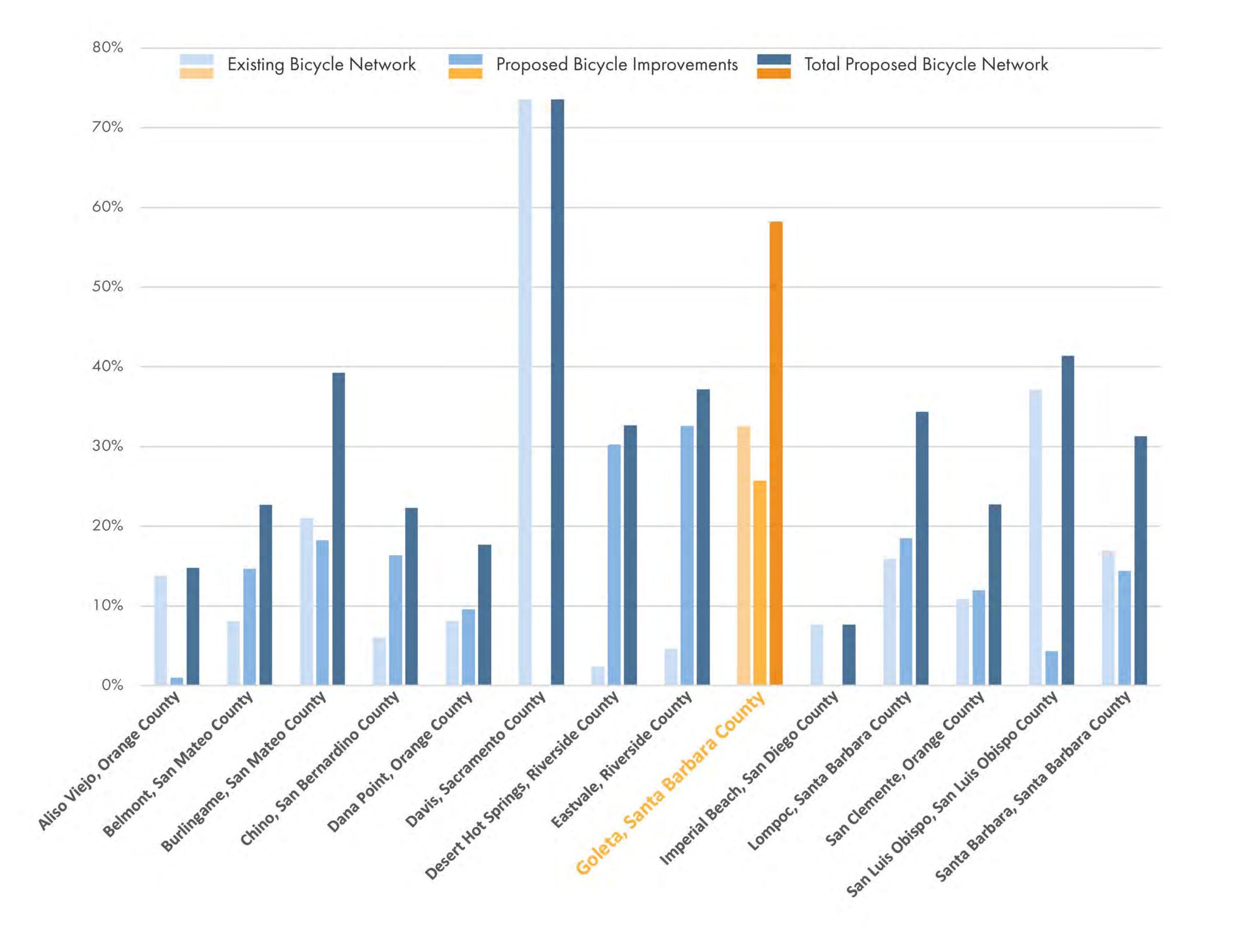
- Prioritizing Projects
  - Short-term, intermediate, longer-term
- Filling in Gaps
- Removing Barriers
- Balancing travel lanes, parking, sidewalks, and cycling
- Limited Right-of-Way
- Crosswalk Improvements
- Jurisdictional coordination signal timing



Bike Comparisons – California





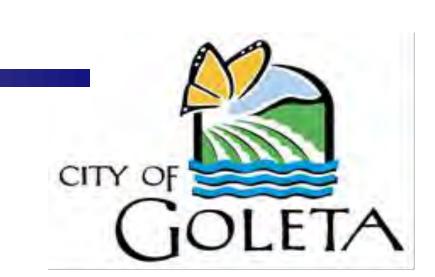


Bikeway Network Comparisons

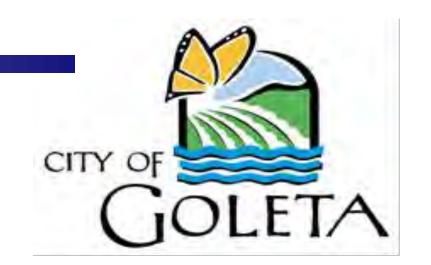


### Next Steps

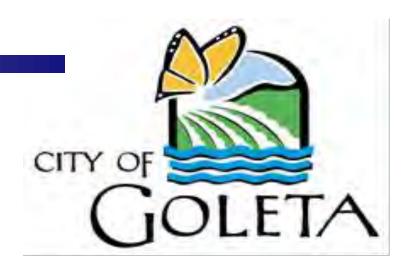
- Draft Recommendations Completed
- List of Potential Projects Under Review
- Draft Document Current Task
- TAC meetings Ongoing
- Council Workshop January
- CEQA Winter/Spring 2018
- Public Workshops/PC Spring 2018
- Council Adoption April/May 2018
- Update street design standards Phase II



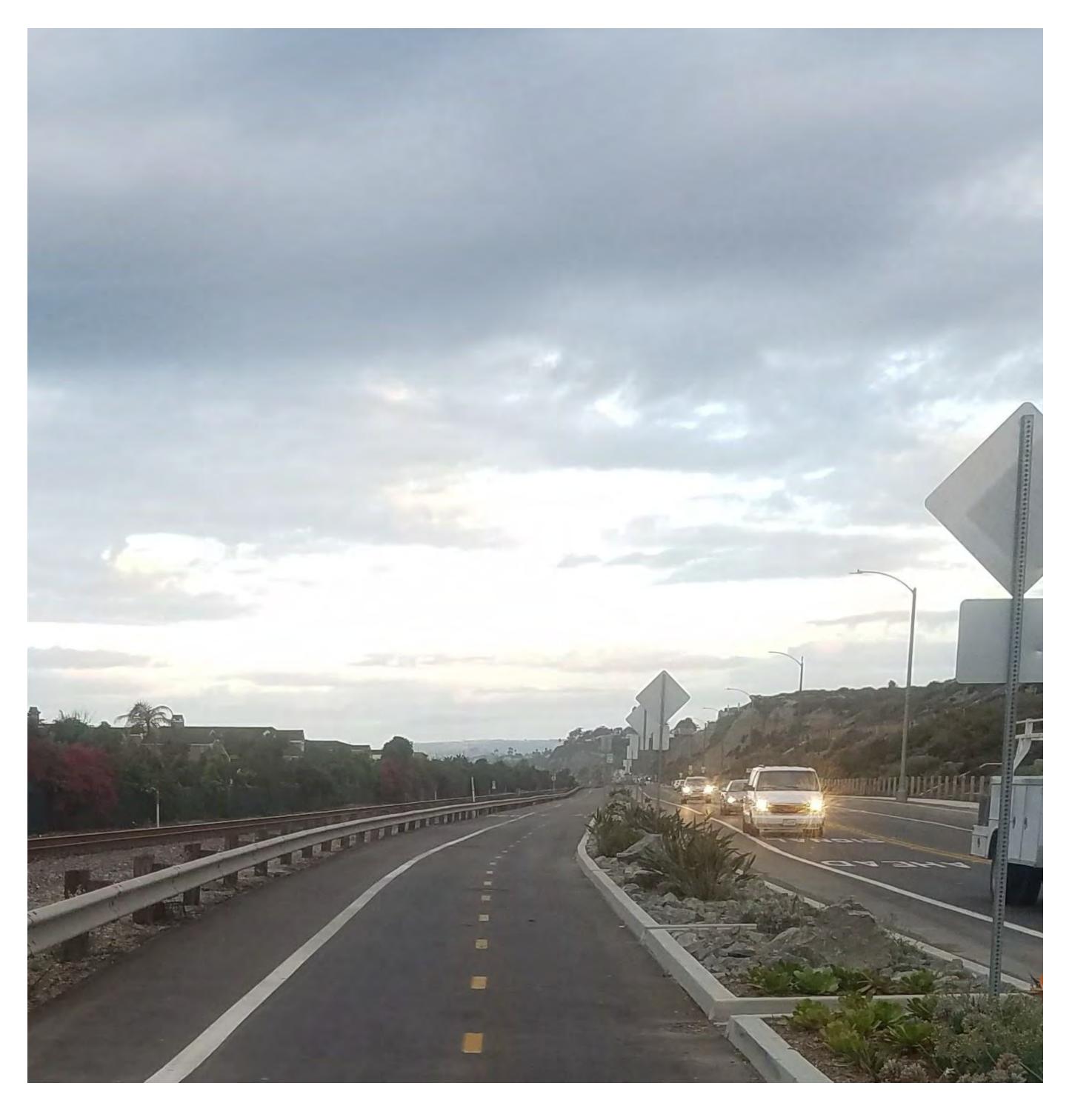
# QUESTIONS?

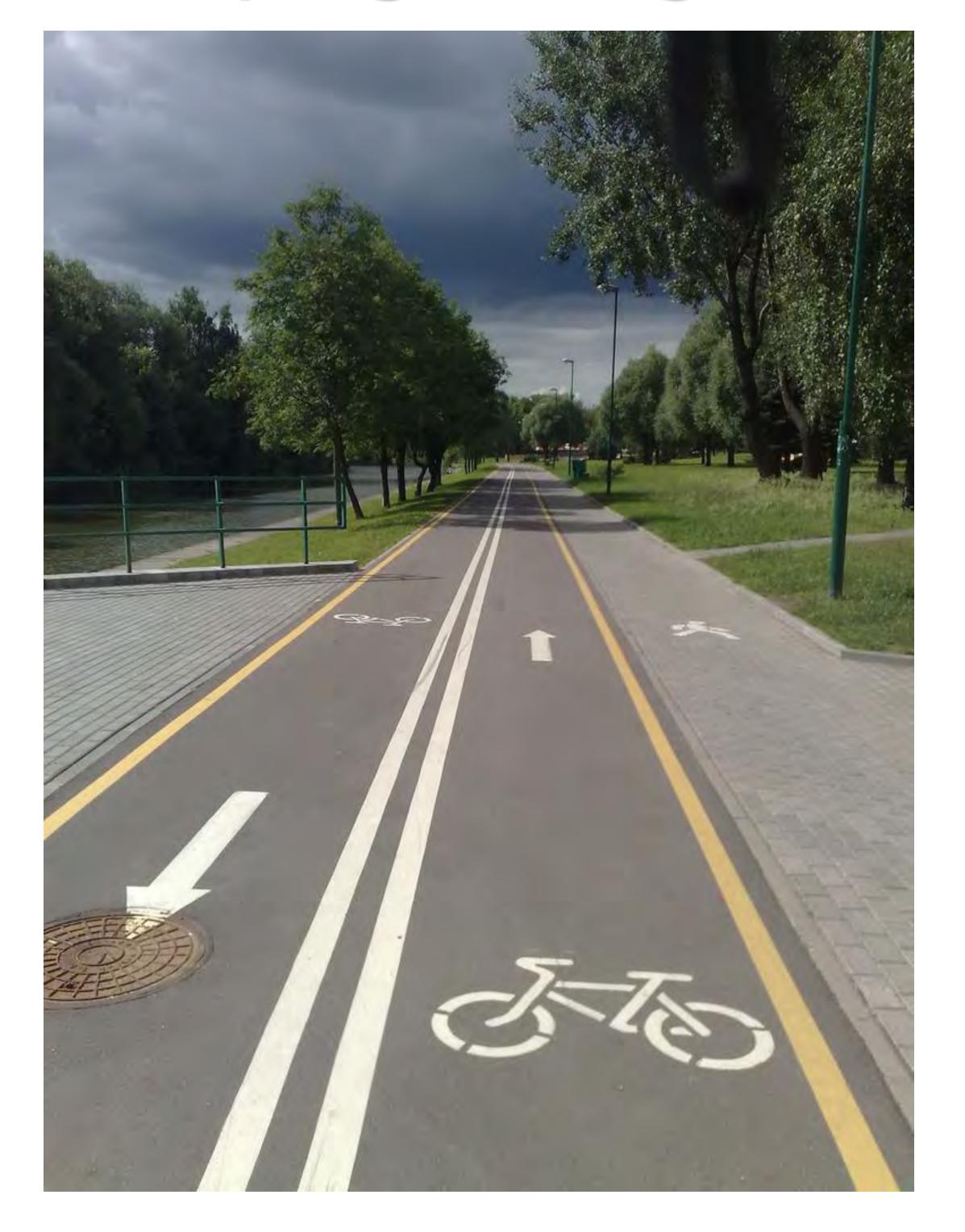


# ADDITIONAL SLIDES

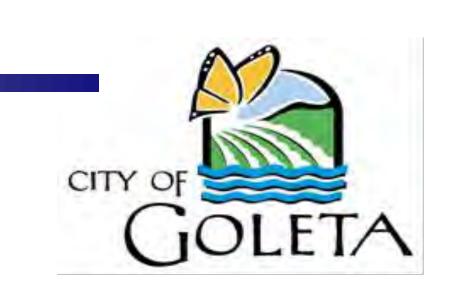


### Other Class I Paths with similar striping configurations





Central Coast Trail Class I Bike Path – San Clemente



#### RAISED CROSSINGS



Netherlands – Speed Table



**Netherlands – Exit Construction** 





- Used commonly in the Netherlands for cycle track crossings
- Rise can vary from 6 inches (curb height) to 0 inches – grades vary 15% and higher
- Only at unsignalized intersection crossings

#### Safety benefit:

- Raising the crossing leads to reduced vehicle speeds as cars must slow to cross speed table
- Raises awareness/expectation of the possible presence of bicyclists and pedestrians

#### Cons:

- Can create drainage problems
- Use of a curve Issue for turning bicycles or motorcycles
- Noise
- Location of driveways

#### INTERSECTION TREATMENTS AND PAVEMENT MARKINGS





- Bicycle Symbols
- Elephant tracking
- Colored Paint
- Ladder Crosswalk





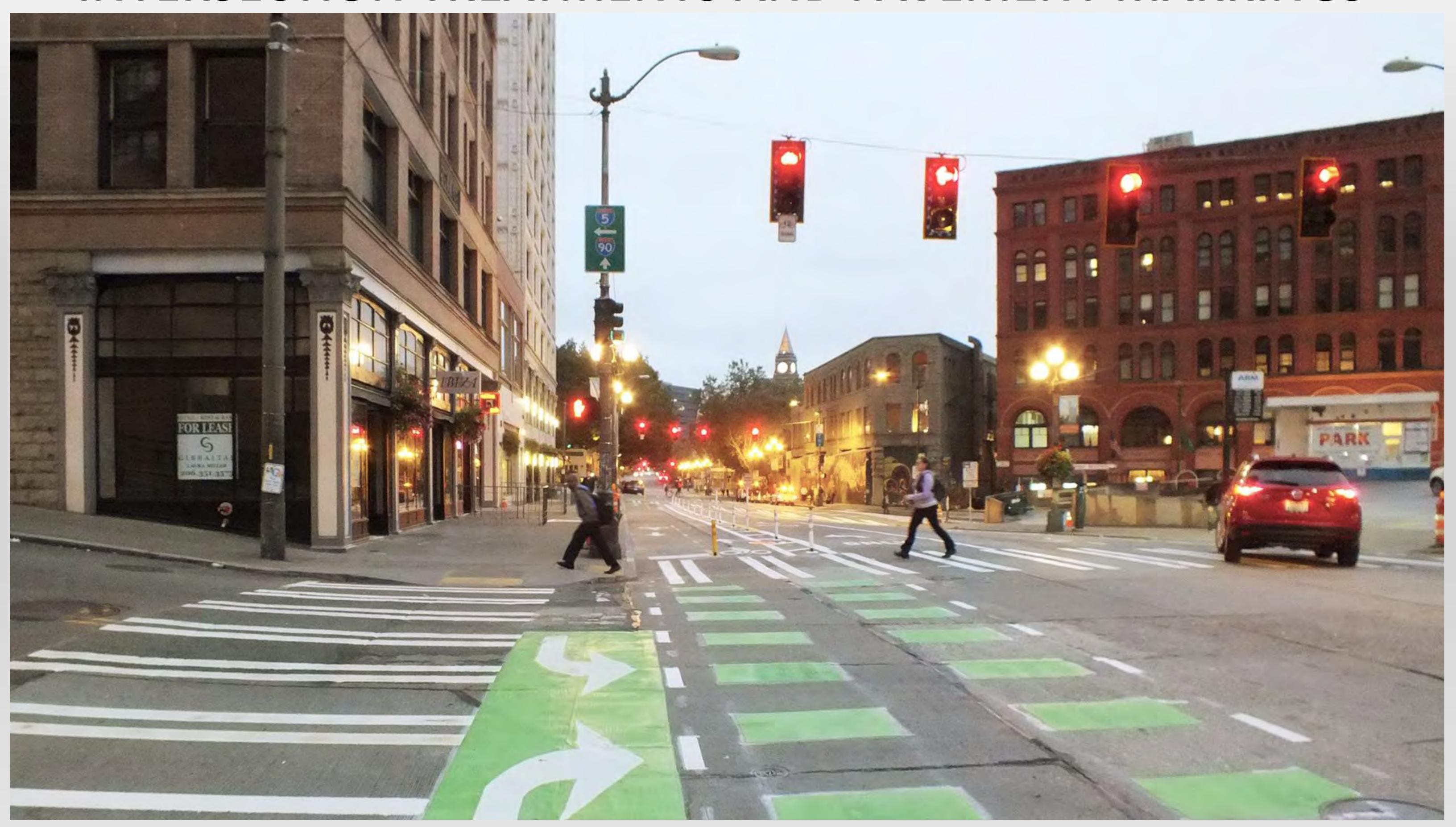




#### INTERSECTION TREATMENTS AND PAVEMENT MARKINGS



### INTERSECTION TREATMENTS AND PAVEMENT MARKINGS



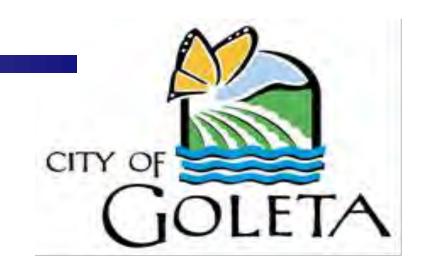
## Mode Share Component

- Consultant Proposal
- Potential Mode Shift
- Meaningful numbers to set goals



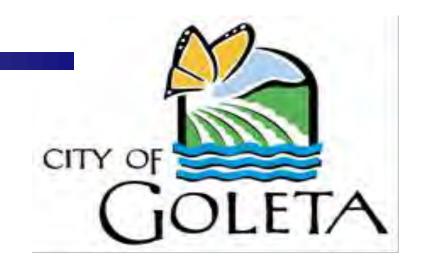
# Sharing

- Comments shared with other Agencies
- Coordinating on Regional Connectivity
- Coordinating with Caltrans on future signal timing
- Joint CIP Consultant Meetings August 30
  - Bicycle and Pedestrian Master Plan
  - Hollister Avenue Complete Streets
  - Old Town Sidewalk Improvements Project



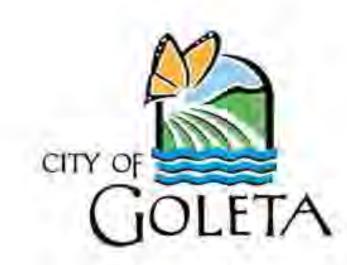
### General Plan

- Potential Recommendations Require GP Amendment
- Policy Discussions
- Council Approved GPA Initiation
  - Removing Streets from Federal Aid Urban Category
  - Allows City to Reduce Speeds



# Draft Plan Outline





#### City of Goleta • Bicycle and Pedestrian Master Plan

Draft Document Outline - Revised 10 August 2017

#### 1. INTRODUCTION

Scope Study Area Vision, Goals and Objectives Potential Performance Measures

**Planning Context** 

Bicycle/Pedestrian Network History
Regional Planning and Previous Master Plans
Relationship to GP and Other City Planning
Integrating Hollister Avenue Complete Streets

#### Bicycle and Pedestrian State of Practice

Overview

Primary Guidance (Caltrans HDM Chapter 1000, AASHTO Bikeway Guide, NACTO Bikeway, Street and Stormwater Guides)

Applicable Legislation (SB 1, 375, 672, 743 and AB-902, 1096, 1358, 1581, 1371, 1193, 1218)
Complete Streets and Routine Accommodation

#### **Bicycling and Walking Benefits**

Environmental Benefits (Community/regional emissions reductions, air quality improvements)
Health Benefits (Individual and community health improvements, active lifestyle, social interaction)
Economic Benefits (Individual and community cost savings, property values, tourism)
Social Justice (Disadvantaged communities, expanded mobility choice)

#### 2. EXISTING CONDITIONS AND ANALYSIS

#### **Existing Conditions**

Land Use (Existing and planned)

Roadway Conditions (Roadway types, ADTs, speed limits)

Activity Centers (Typical and specific to Goleta)

Mobility Barriers (Bicycle and pedestrian travel barriers)

Bicycling Mode Share (Most recent bike mode share: US Census, Strava®, other sources)

Walking Mode Share (Most recent walking mode share: US Census)

Public Transit Mode Share (MTD routes and boarding/alighting data)

Personal Vehicle Availability (Personal vehicle ownership: US Census)

School Zone Infrastructure (Existing bike/pedestrian treatments around schools)

Population and Employment (Population density, employment density: US Census)

Income (Household income: US Census)

Age Stratification (Age density patterns: US Census)



# Draft Plan Outline





#### **Analysis**

Bicycle and Pedestrian Propensity (GIS modeling/analysis)
Bicycle and Pedestrian Collisions (Collision mapping/analysis (SWITRS, TIMS, Sheriff)
Demographic Trends and Characteristics (Population, ethnicity, age trends: US Census)
Level of Traffic Stress (Analysis employing existing street type, width, traffic volume, speed, etc.)
Gap Analysis (Barriers to bicycle and pedestrian travel analysis)

#### 3. PUBLIC OUTREACH

Outreach Plan

Technical Advisory Committee (Role, member list: Various City of Goleta departments, City of Santa Barbara, County of Santa Barbara, UCSB, SBCAG, MTD, Goleta Chamber of Commerce, County Health, SBBike, COAST, Community Environmental Council, Community Associations)
Public Workshops and Pop-up Events (Locations and outcomes)
Online Survey and Comment Map (Methodology and outcomes)

Outreach Summary (Outreach results compilation and analysis)

#### 4. RECOMMENDATIONS

#### **Bicycle and Pedestrian Treatments**

Bicycle Treatments (Class I, II, III, IV, Buffered Class II lanes, sharrows, bike boxes, bicycle boulevards, protected intersections, signage and wayfinding)

Pedestrian Treatments (PHBs, RRFBs, pedestrian refuges, mid-block crossings, curb extensions, senior zones)

Traffic Calming (Roundabouts, speed tables/raised crosswalks, diverters, signals/warning devices)

#### **Recommended Physical Improvements**

Bicycle and Pedestrian Improvement Prioritization (Based on analysis, City and public input, best practices, demographic trends, etc.)

Updated Street Design Standards (Current best practices supporting Complete Streets)
Wayfinding Signage Improvements

Integration with Other Transportation Modes

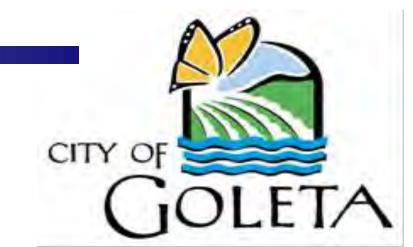
#### Recommended Programs and Policies

Pedestrian and Bicycle Policies (Recommended new policies and revisions)
Walking/Biking Education/Promotion Programs (Example programs)
Inter-Agency Communication (City, County, SBCAG, UCSB, MTD, Sheriff, Fire)
Tracking and Monitoring Pedestrian and Bicycle Travel (Recommended protocols)
Policy Integration (Vision Zero, GHG, Complete Streets, Routine Accommodation, Safe Routes to School, Social Justice, Disadvantaged Communities)

Future Opportunities (Long-term vision, comprehensive low-stress network)

#### 5. FUNDING

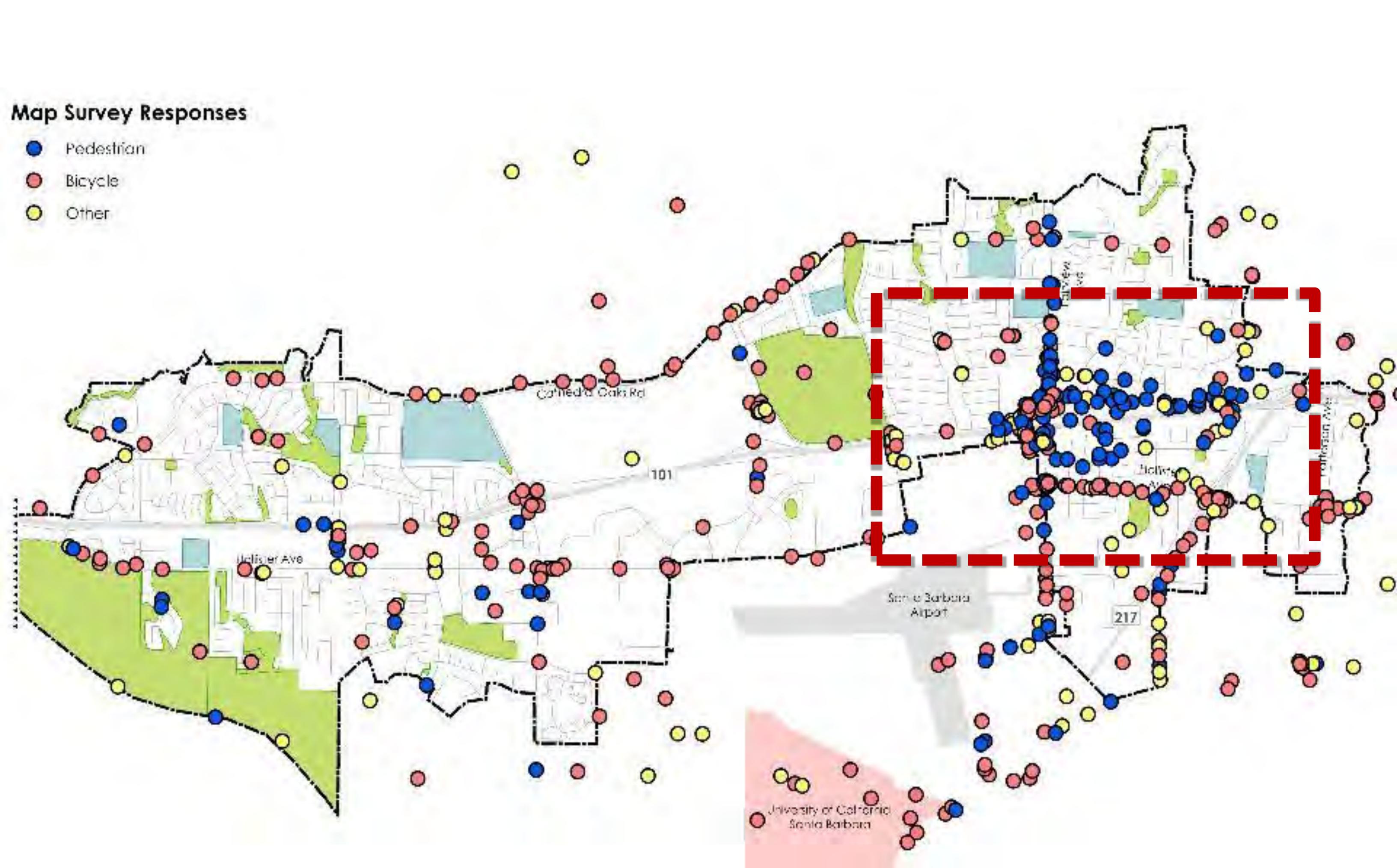
Typical Costs
Preliminary Cost Estimates
Funding Source Recommendations and Strategies

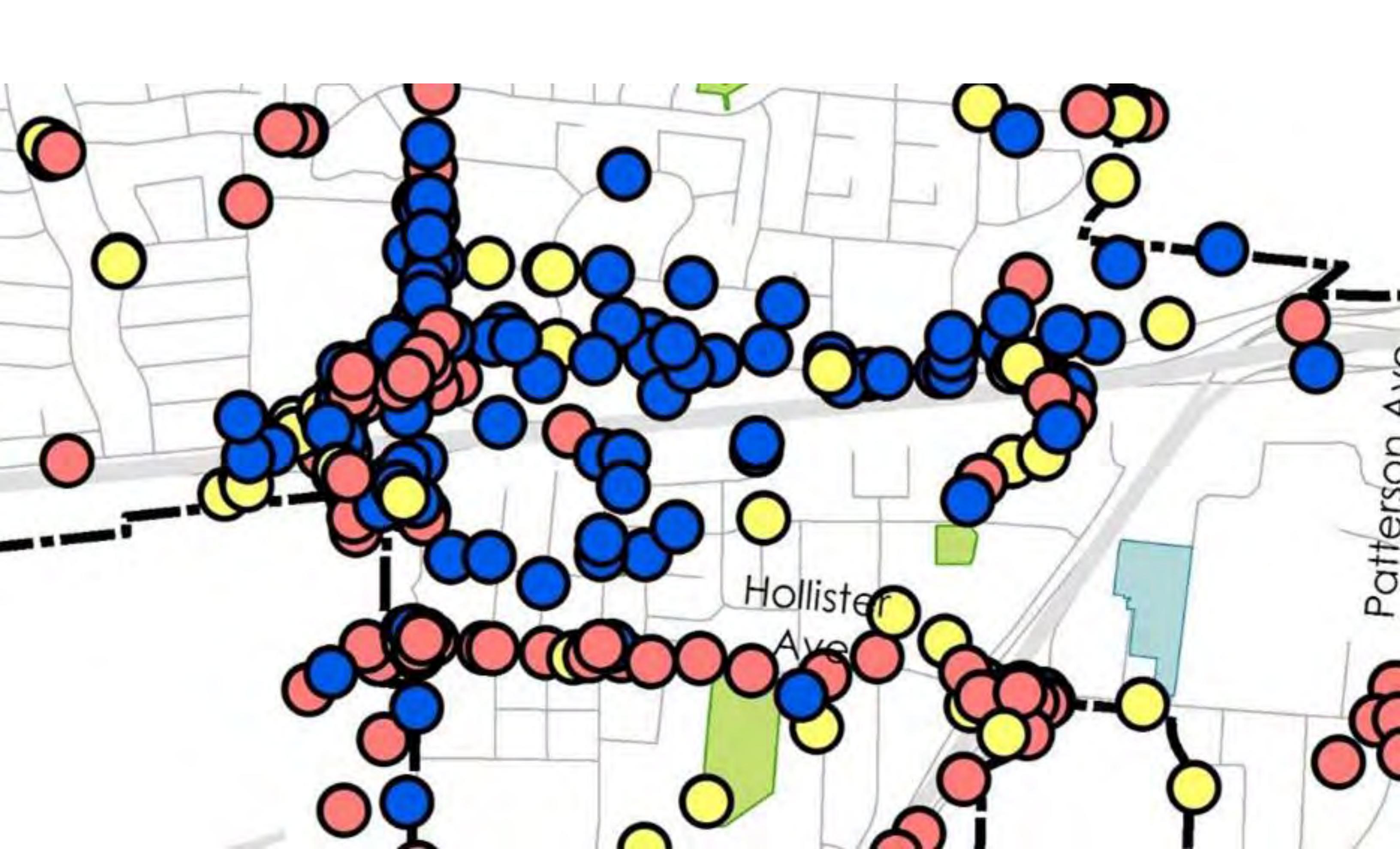


## Analysis and Assessment

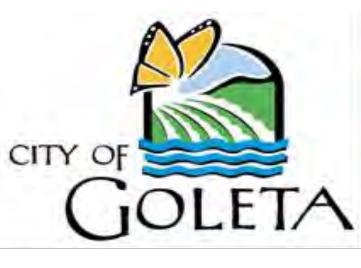
- Inventory bicycle and pedestrian networks
- Analyze bicycle and pedestrian facility gaps
- Collision Data
- Public Input
- Schools
- Review demographic trends
- Review current street design standards (phase II)

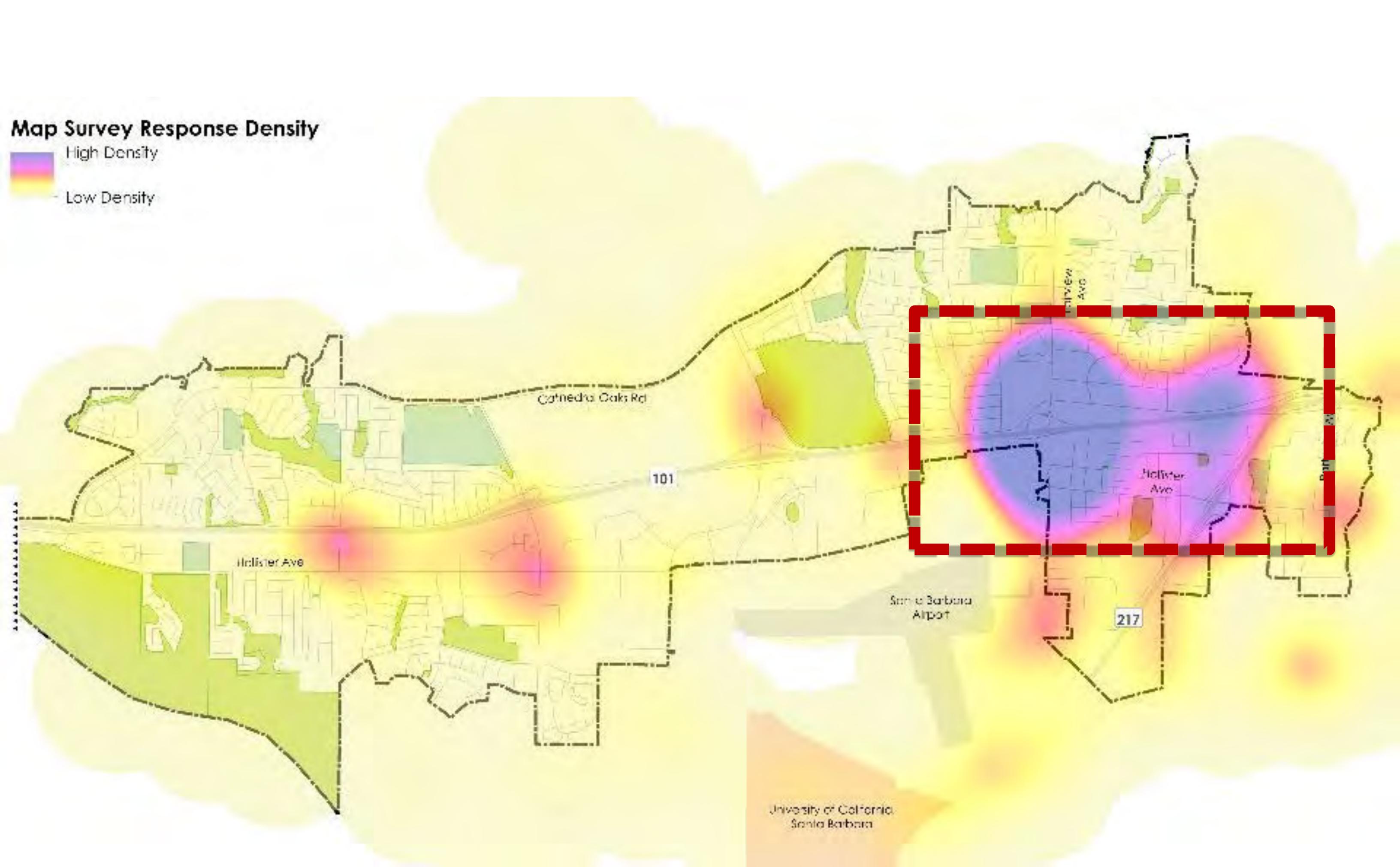






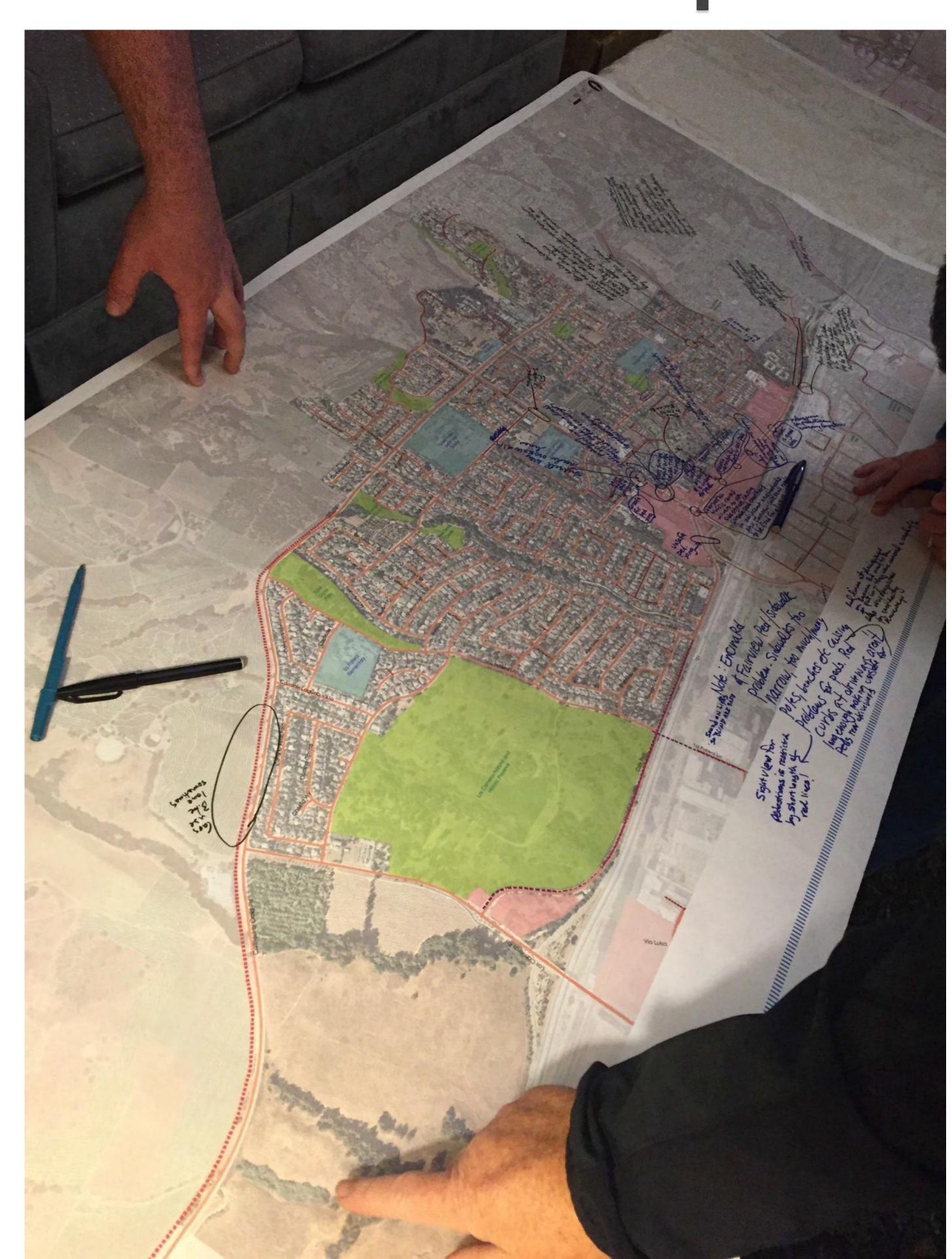


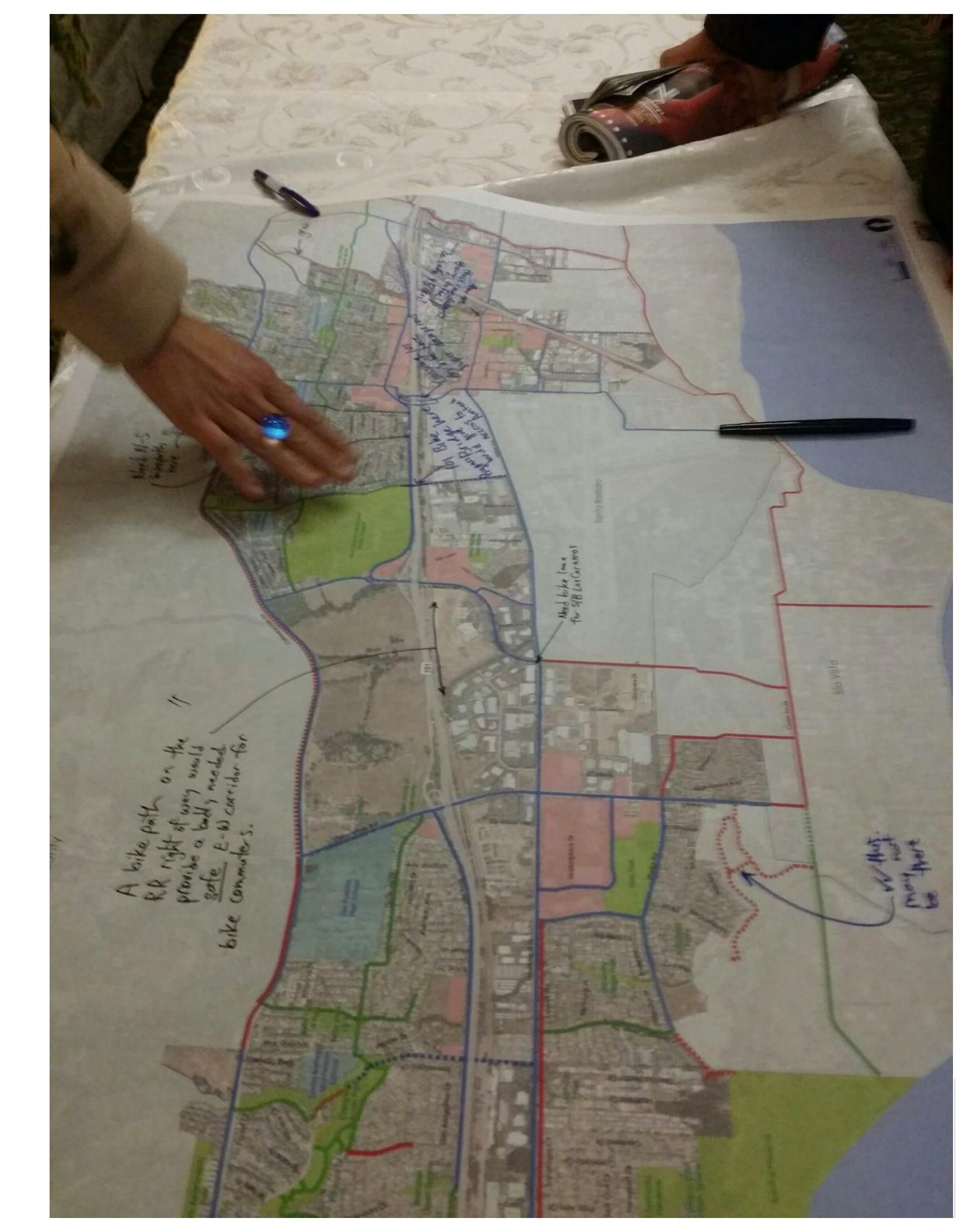


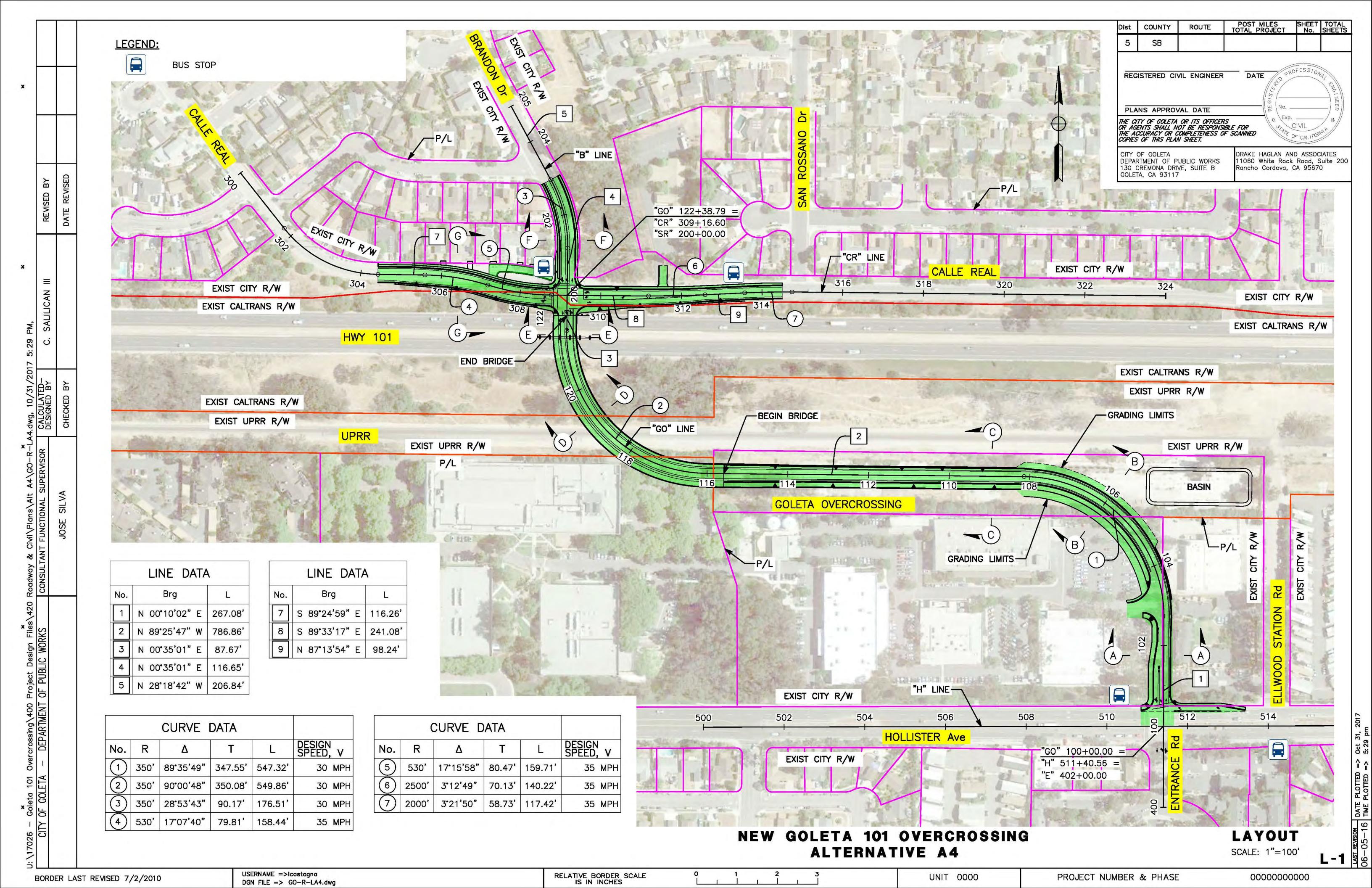


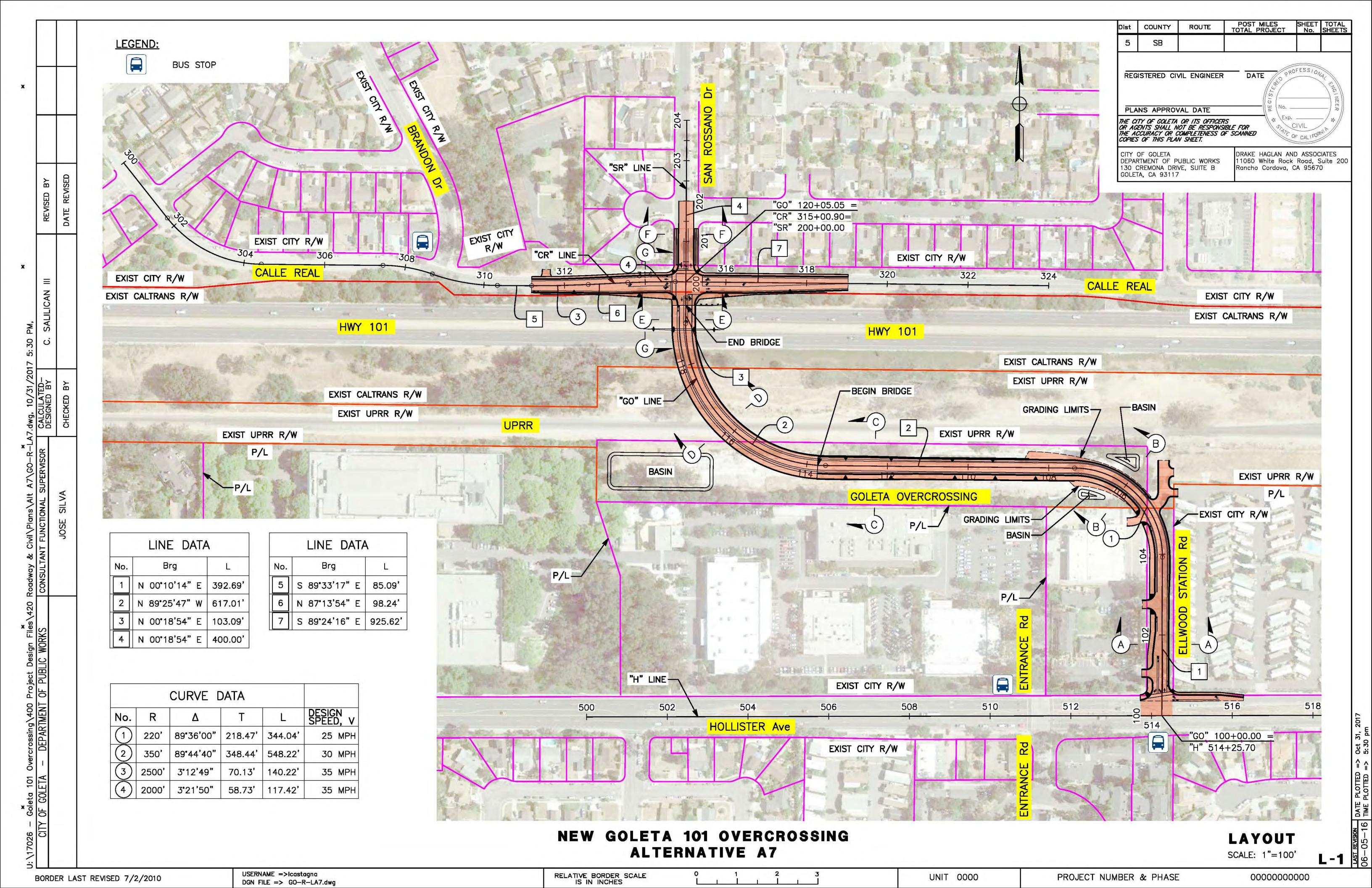


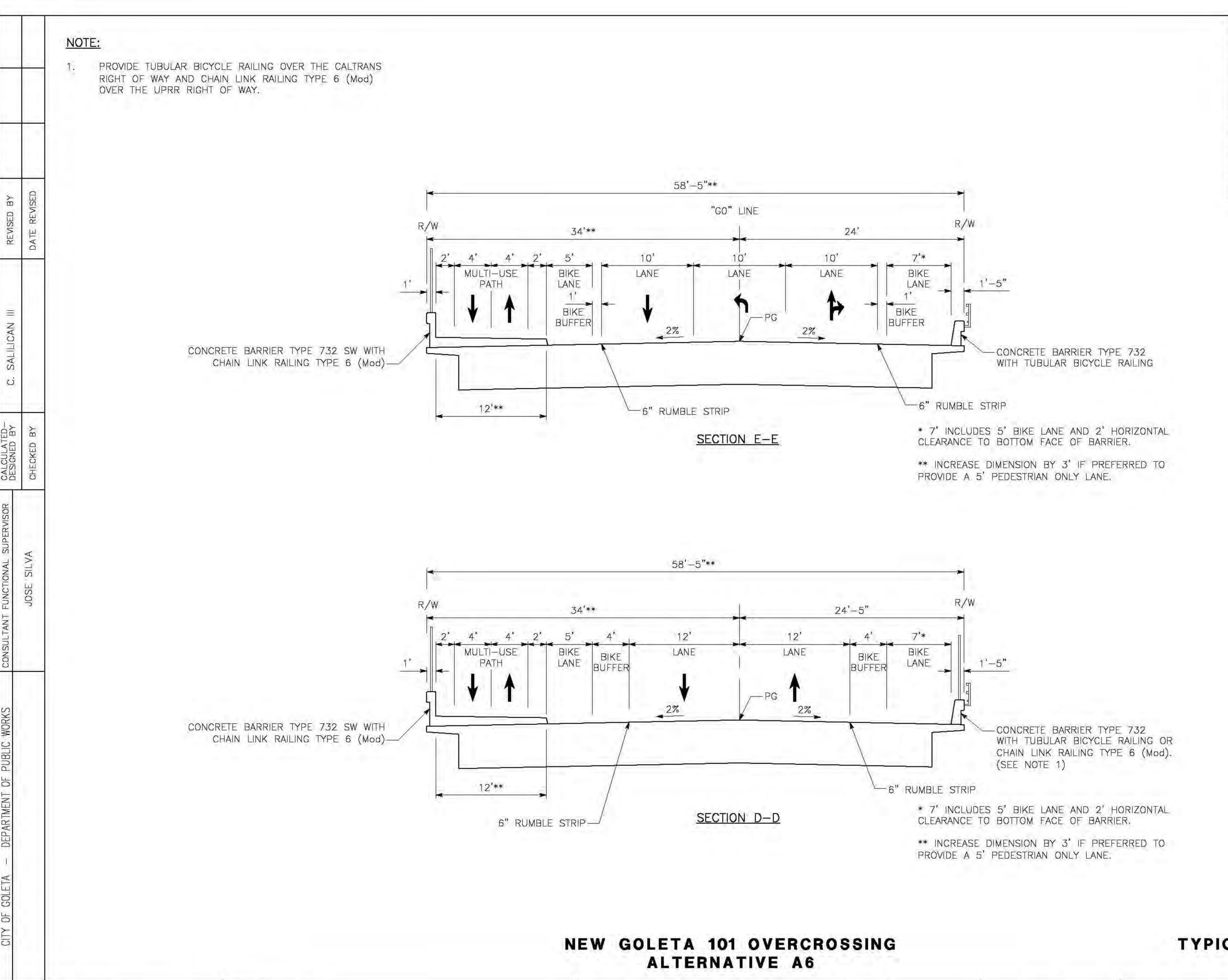
# Workshops











ROUTE SB REGISTERED CIVIL ENGINEER DATE PLANS APPROVAL DATE THE CITY OF GOLETA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET. CITY OF GOLETA DRAKE HAGLAN AND ASSOCIATES DEPARTMENT OF PUBLIC WORKS 11060 White Rock Road, Suite 200 130 CREMONA DRIVE, SUITE B Rancha Cardova, CA 95670 GOLETA, CA 93117

TYPICAL CROSS SECTIONS

NO SCALE

X-3 89

USERNAME =>lcastagna DGN FILE => GO-R-XA6.dwg RELATIVE BORDER SCALE IS IN INCHES

PROJECT NUMBER & PHASE

BORDER LAST REVISED 7/2/2010

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UNIT 0000

