

# Safety & Mobility Improvements near Housing Element Sites Community Meeting

Zone #3 (Cardiff, New Encinitas, Olivenhain)

Wednesday, August 30th, 2023

**Welcome!**

*We will begin in  
a few minutes.*



# Welcome!



- Please sign in via sign-in sheet
- Devoted Q/A periods
- Be respectful and courteous to others during group discussion
- Active participation

# Agenda

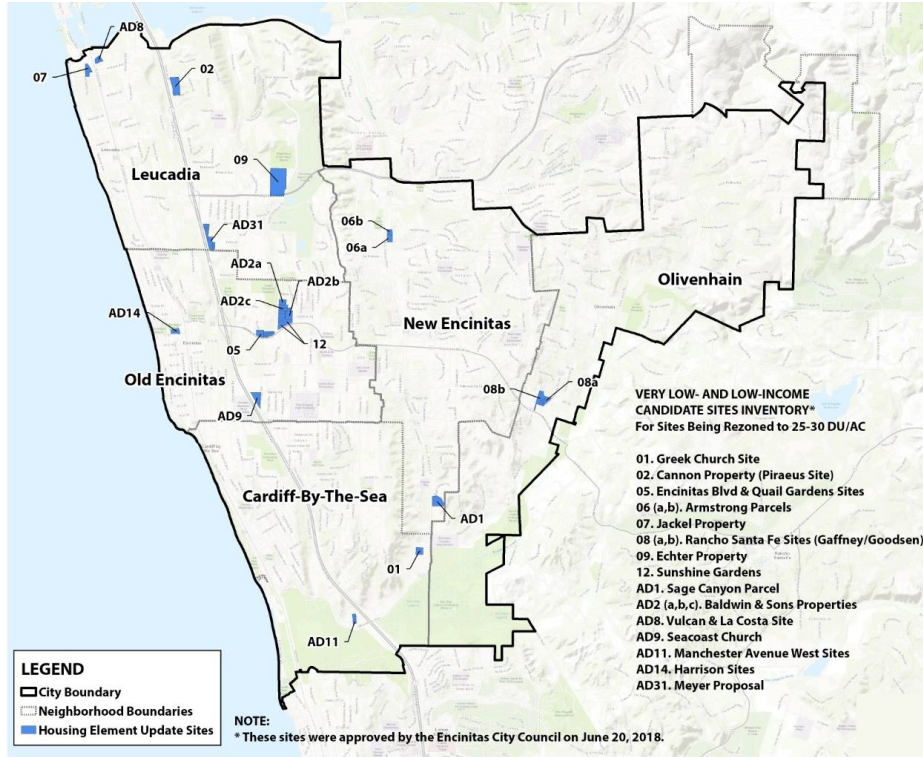


- 1. Background**
- 2. Scope, Current Schedule of Study, & Future Steps**
- 3. Potential Projects/Improvements**
- 4. Break-out Session**
- 5. Report Back**
- 6. Closing Notes & Meeting Activity**

# 1. Background



# Background



- As part of the City's Housing Element, multiple sites zoned for multi-family housing to accommodate for future growth.
- 15 sites were identified and later approved with the City's Housing Element update in 2018.
  - Sites located citywide across all communities.

# Background



## ➤ **October 19<sup>th</sup>, 2022**

- City Council initiated item for traffic calming and pedestrian improvements in the vicinity of Housing Element development projects.
- Council directed staff to advance mobility improvements in areas most impacted by the Housing Element Update projects.

## ➤ **February 15<sup>th</sup>, 2023**

- Council approved the scope and funding to conduct a study to analyze potential improvements near Housing Element sites.

## 2. Scope and Schedule

# Scope



- A. Existing Conditions Collection
- B. Projects Identification Based on Adopted Documents
- C. Identify Additional Improvements and Field Visits
- D. Improvements Feasibility Assessment
- E. Community Meetings ← We are here
- F. City Council Presentation and Project Ranking  
(Selection of Top 5 Projects)
- G. 30% Design and Cost Estimates
- H. Final Report and City Council Presentation



# Improvements Conditioned with Development Projects



➤ **All Housing Element projects conduct site specific traffic impact submits to evaluate potential impacts associated with the trips generated.**

- Delay and congestion at nearby intersections are analyzed for consistency with the City's General Plan Policies of the Circulation Element.
- Improvements near the project site can be conditioned if inconsistencies are found.

# Improvements Conditioned with Projects



## Examples:

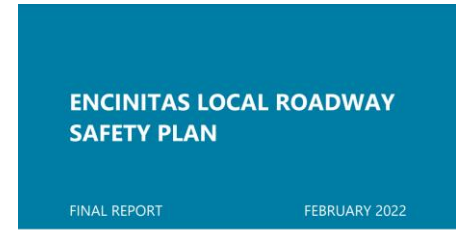
### ➤ **Saint Constantine and Helen Greek Orthodox Church Senior Apartments**

- The owner shall construct public improvements along the property frontage of Manchester Avenue. Street improvements shall include pavement widening and the construction of standard curb, gutter and sidewalk along the entire property frontage.
- The developer shall implement the striping plan to the satisfaction of the City Traffic Engineer prior to issuance of the grading permit.

# Approved City Documents

➤ This study incorporates projects identified in previously approved city planning documents near the development sites and builds on previous work.

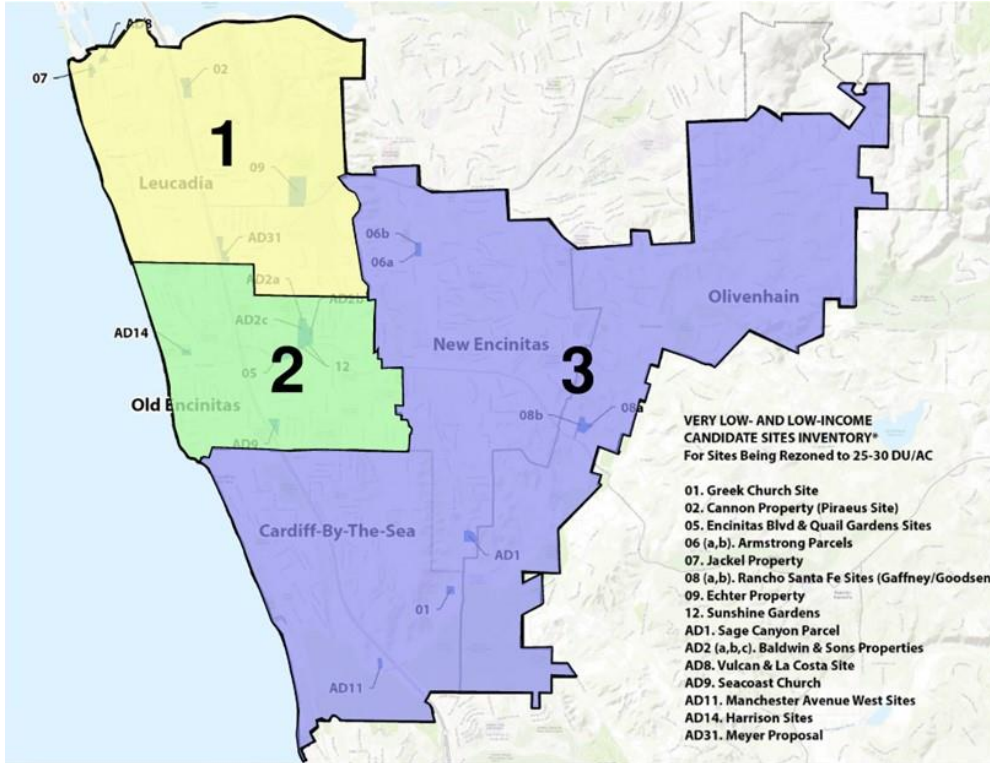
- Active Transportation Plan (ATP)
- Modal Alternatives Project (MAP)
- Local Roadway Safety Plan (LRSP)



Prepared for:  
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# Community Meetings



## Meeting #1 (Zone 1)

**Monday, August 21, 2023**

**Corridors: La Costa Ave, Vulcan Ave, Piraeus St, Saxony Rd, Leucadia Blvd, N. Coast Hwy 101**

## Meeting #2 (Zone 2)

**Tuesday, August 29, 2023**

**Corridors: Quail Gardens Dr, Encinitas Blvd, Saxony Rd, S. Coast Hwy 101, Regal Rd**

## Meeting #3 (Zone 3)

**Wednesday, August 30, 2023**

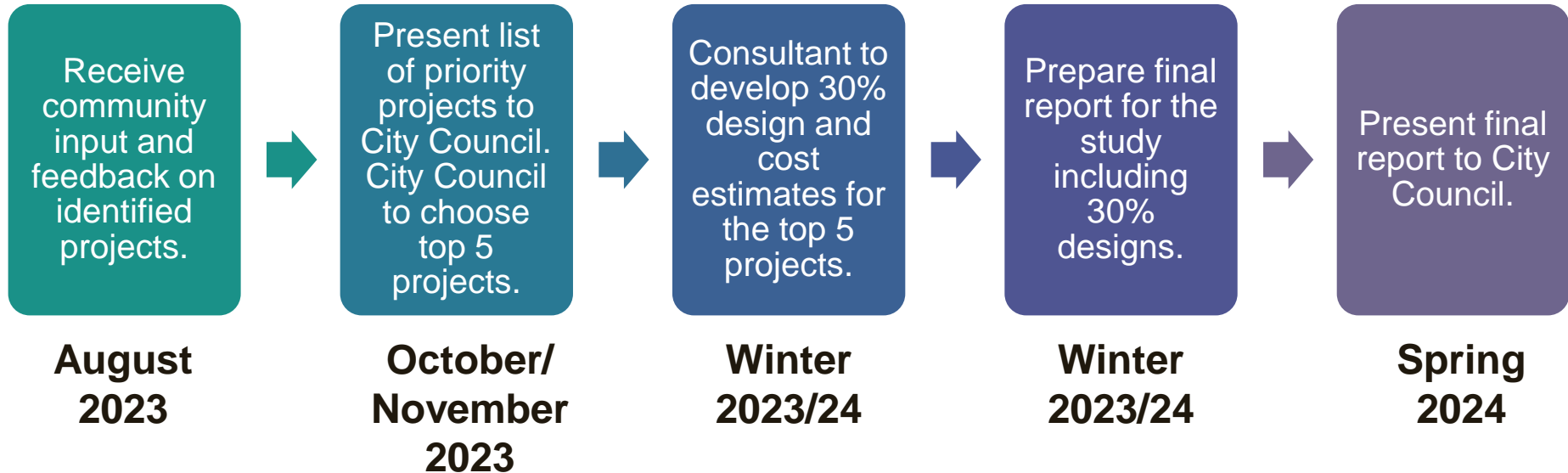
**Corridors: North and South El Camino Real, Encinitas Blvd, Rancho Santa Fe Rd, Manchester Ave**

# Current Schedule





# Future Steps



# Types of Projects/Improvements

- **Active Transportation**
  - Improving bicycle and pedestrian facilities to promote alternative modes of transportation.
- **Traffic Calming**
  - Goal to reduce speeds on roads.
- **Traffic Congestion Relief**
  - Improving Level of Service (LOS) at intersections.
- **Non-engineering Improvements**

# Zones 1 and 2 Community Meeting Feedback

## Zone #1 (Leucadia)

### Top improvements:

- N. Vulcan Avenue multi-use path
- La Costa Avenue multi-modal improvements (two-way left turn lane, buffered bike lanes, and sidewalks)
- Realignment of Piraeus Street for egress onto Leucadia Blvd
- Saxony Road sidewalk infill
- Adaptive traffic signal timing
- Increased enforcement for vehicles and bikes

# Zone #1 and Zone #2 Community Meeting Feedback

## Zone #2 (Old Encinitas)

### Top improvements:

- Speed cushions or raised crossings/speed tables with Rectangular Rapid Flashing Beacons (RRFB's) on Saxony Road
- Encinitas Boulevard improvements (raised medians, restriping to narrow travel lanes, widening of existing bike lanes and green paint)
- Saxony Road Class II bike lanes
- Speed cushions or raised crossings/speed tables with Rectangular Rapid Flashing Beacons (RRFB's) on Quail Gardens Road
- Sidewalk/DG path infill on the west side of Quail Gardens Drive along the San Diego Botanic Garden frontage.

# 3. Potential Projects/Improvements

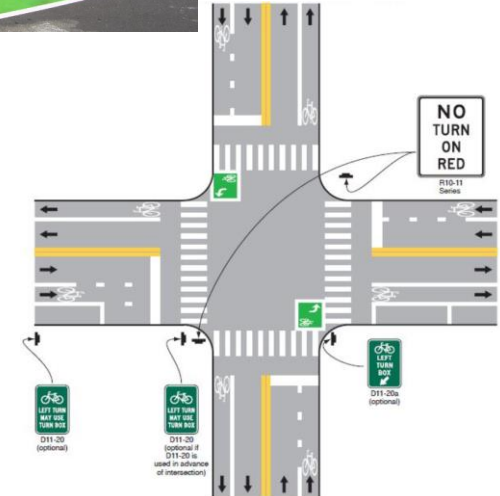


# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## EL CAMINO REAL/ MANCHESTER AVENUE CORRIDORS

### ➤ Project #1: Two-Stage Left-Turn Bicycle Boxes

- Install two-stage left-turn bicycle boxes at following intersections to provide formal queuing space for bicyclists to make left turns:
  - El Camino Real/Garden View Rd (All approaches)
  - El Camino Real/Encinitas Blvd (All approaches)
  - El Camino Real/Santa Fe Dr (NB approach)
  - Manchester Ave/Mira Costa College (EB approach)
- Improvement works best at signalized multi-lane intersections where it is difficult for bicyclists to enter left turn lane from right side of road
- May require implementing “No Turn on Red” for the perpendicular approaches to prevent conflicts between vehicles and queued bicyclists
- Improvements feasible to implement with restriping
- Would require education for both bicyclists and drivers



# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## EL CAMINO REAL CORRIDOR

### ➤ Project #2: El Camino Real Separated Bikeway (Class IV Bicycle Facility)

- Restripe El Camino Real and widen where necessary between Santa Fe Drive and Manchester Avenue to provide a Class IV separate bikeway (1.2 miles)
- Improvement identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- Improvement can be implemented through restriping between Santa Fe Drive and Calle Ryan without removing parking or travel lanes
- South of Calle Ryan, restriping would require removing on-street parking (west side) and/or reducing northbound direction from 3 to 2 lanes
- West side (southbound direction) would be easier to implement improvement due to constraints in northbound direction
- Improvement may be relatively costly to construct

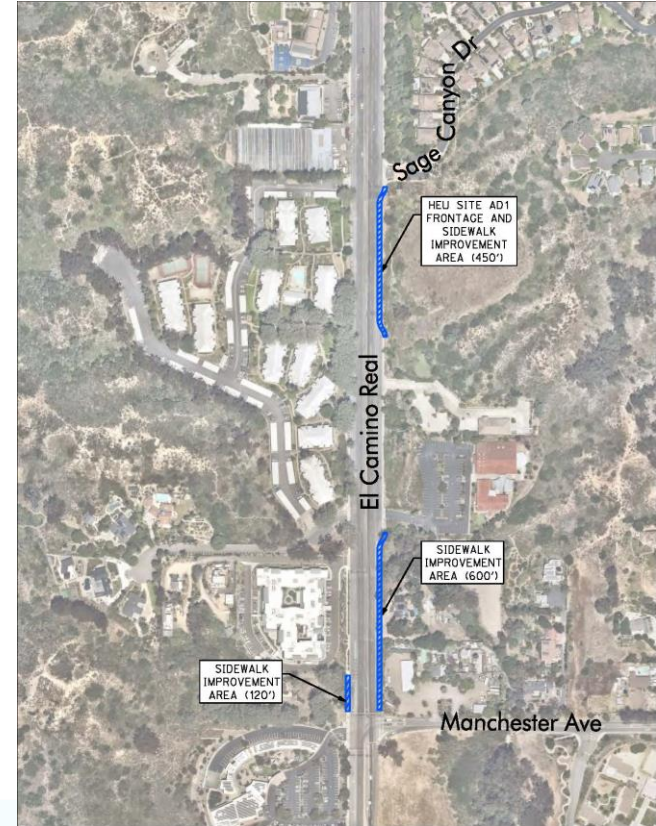


# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## EL CAMINO REAL CORRIDOR

### ➤ Project #3: El Camino Real Sidewalk Infill

- Install sidewalks on El Camino Real where gaps exist from Sage Canyon Drive to Manchester Avenue
- HEU Site AD1 (Sage Canyon Apartments) will construct 450' of sidewalk on east side of El Camino Real as part of their required frontage improvements
- Most of the sidewalks can be constructed within the City's existing ROW
- Additional ROW may be needed along existing dirt pathway on west side between Manchester Avenue and 120' north of Manchester Avenue
- Construction of sidewalk on east side between Presbyterian Church driveway and Manchester Avenue may require retaining wall, tree removal and relocation of signal pole



# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## RANCHO SANTA FE ROAD CORRIDOR

### ➤ Project #4: Rancho Santa Fe Road Class II Bike Lanes (north of Encinitas Blvd)

- Restripe Rancho Santa Fe Road and widen where necessary between Morning Sun Drive and Encinitas Boulevard to provide Class II bike lanes in each direction (1.7 miles)
- Improvement identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- Most of corridor has sufficient width to restripe roadway to provide Class II bike lanes
- HEU Sites 8a & 8b (Gaffney/Goodsen Properties) will widen 500' along west side of Rancho Santa Fe Road as part of required frontage improvements
- Power pole and large drainage structure just north of Peppertree Lane would need to be relocated to widen roadway





# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## RANCHO SANTA FE ROAD CORRIDOR

### ➤ Project #5: Rancho Santa Fe Road Class II Bike Lanes (east of Encinitas Blvd)

- Restripe Rancho Santa Fe Road from Encinitas Blvd/Manchester Avenue to City boundary to provide Class II bike lanes in each direction (800')
- Segment has sufficient width to restripe roadway to provide Class II bike lanes
- Would require removing existing on-street parking spaces to provide Class II bike lanes
- Improvement would transition to existing shoulder lanes east of City boundary



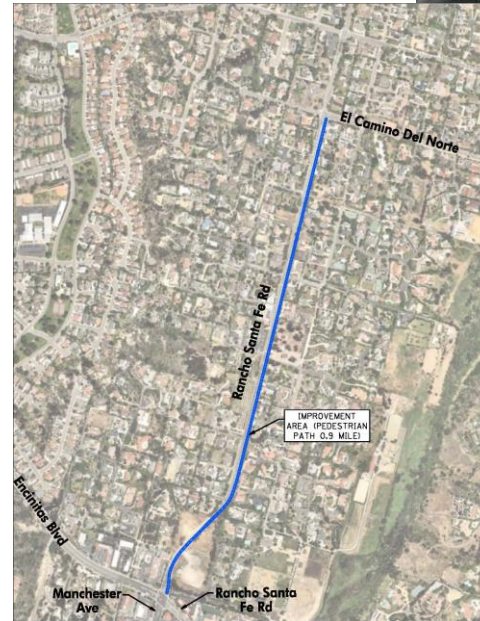


# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## RANCHO SANTA FE ROAD CORRIDOR

### ➤ Project #6: Trail 82 Improvements (Encinitas Boulevard to El Camino Del Norte)

- Current CIP project to design trail improvements along the east side of Rancho Santa Fe Road between Encinitas Boulevard and El Camino Del Norte (0.9 mile)
- Improvement identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- Trail would be provided for both pedestrian and equestrian usage
- Project will require multiple utility relocations (utility poles and boxes)
- Included in the City's Trails Master Plan
- Design is underway. Project is not funded for construction.



# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## RANCHO SANTA FE ROAD CORRIDOR

### ➤ Project #7: Intersection Improvements – Potential Roundabouts

- Mobility Enhancement Study conducted in 2021 by the City to analyze intersection improvements in the Rancho Santa Fe Road corridor
- Crosswalk improvements have been made (ADA curb ramps, high visibility striping, stamped horse crossing (to be constructed) since the completion of the study
- Traffic signals discouraged by community due to Olivenhain's Dark Skies Policy
- Construct ADA compliant curb ramps and crosswalks
- Lone Jack Road and El Camino Del Norte receive the highest cross street traffic volume in corridor

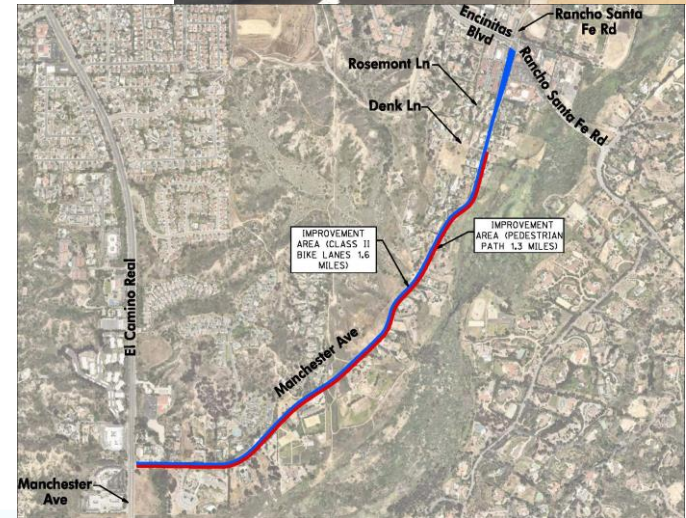


# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## MANCHESTER AVENUE CORRIDOR (NORTH SEGMENT)

### ➤ Project #8A: Manchester Avenue Bike and Pedestrian Improvements

- Restripe and widen Manchester Avenue from Encinitas Boulevard to El Camino Real to provide Class II bike lanes in each direction (1.6 miles)
- Construct a pedestrian pathway or sidewalk along one side of Manchester Avenue from Denk Lane to El Camino Real (1.3 miles)
- Class II bike lanes identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- Sufficient width available to restripe from Encinitas Boulevard to Rosemont Lane (800')
- Would require removing existing on-street parking spaces to provide bike lanes at north end of corridor
- Multiple power poles, trees would need to be removed, numerous retaining walls would need to be constructed
- Both bike lane and pedestrian improvements would be very costly to construct





# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## MANCHESTER AVENUE CORRIDOR (NORTH SEGMENT)

### ➤ Project #8B: Sidewalk Infill on Manchester Avenue (north side only)

- Install sidewalk on north side of Manchester Avenue from El Camino Real to Encinitas Country Day School Driveway intersection (700')
- Improvement would provide a pedestrian connection between El Camino Real and Country Day School
- Additional ROW would be needed along Waynes World of Trees & Pumpkin Patch property
- Several utilities and a power pole may need to be relocated
- Retaining wall about 160' in length and 8' in height would be needed along steep slope
- A smaller segment from Project #8A if funding is an issue.



# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## MANCHESTER AVENUE CORRIDOR (NORTH SEGMENT)

### ➤ Project #9: High Visibility Crosswalk and RRFB at Manchester Avenue/ Encinitas Country Day School Intersection

- Install rectangular rapid flashing beacon (RRFB) and high-visibility continental-style crosswalk across east leg of Manchester Avenue/Country Day School intersection
- Improvement would only be implemented if sidewalk on north side of Manchester is constructed (Project #8B)
- Improvement with sidewalk would provide a continuous pedestrian connection between El Camino Real and Encinitas Country Day School



# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## MANCHESTER AVENUE CORRIDOR (NORTH SEGMENT)

### ➤ Project #10: 25 MPH School Zone on Manchester Avenue

- Establish 25mph School Zone on Manchester Avenue from 200' east of El Camino Real to 500' east of the Encinitas Country Day School entrance and install signage per CA MUTCD (1,000')
- Improvement would only be implemented if Projects #8B and #9 are implemented
- Improvement recommended to slow traffic through area if RRFB and crosswalk are installed across Manchester Avenue at Country Day School entrance
- Current posted speed limit is 40mph, but 85<sup>th</sup> percentile speeds are likely higher



# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## MANCHESTER AVENUE CORRIDOR

### ➤ Project #11: Traffic Signal Modifications and Pedestrian Improvements

- Modify existing traffic signal and reconstruct southeast corner of the S. El Camino Real/ Manchester Avenue intersection to remove pork chop island
- Modify existing traffic signal to provide new pedestrian countdown phase and high-visibility crosswalk across south leg of intersection
- Upgrade existing crosswalks to high-visibility continental-style crosswalks across west, north and east legs of intersection
- Construct ADA compliant curb ramps at all corners of intersection





# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## MANCHESTER AVENUE CORRIDOR

### ➤ Project #12: High Visibility Crosswalk and RRFB at Manchester Avenue/Ocean Cove Drive Intersection

- Install rectangular rapid flashing beacon (RRFB) and high-visibility continental-style crosswalk across west leg of Manchester Avenue/Ocean Cove Drive intersection
- Project would improve safety of pedestrians crossing Manchester Avenue to access existing DG multi-use path
- Sight distance could be an issue due to horizontal curve on Manchester Avenue west of Ocean Cove Drive
- Pedestrians were observed crossing Manchester Avenue at Ocean Cove Drive, anticipated to increase with development of HEU Site AD11



# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## ALL CORRIDORS

### ➤ Project #13: Speed Feedback Signs

- To be placed at strategic locations to alert drivers of real-time speed
- Installation of signs would help calm traffic speeds on streets with issues such as excessive speeding, limited sight distance or uncontrolled crosswalks
- Effectiveness may decrease over time as drivers may disregard signs
- Solar powered signs preferred to avoid installing new service meters or the need to replace batteries

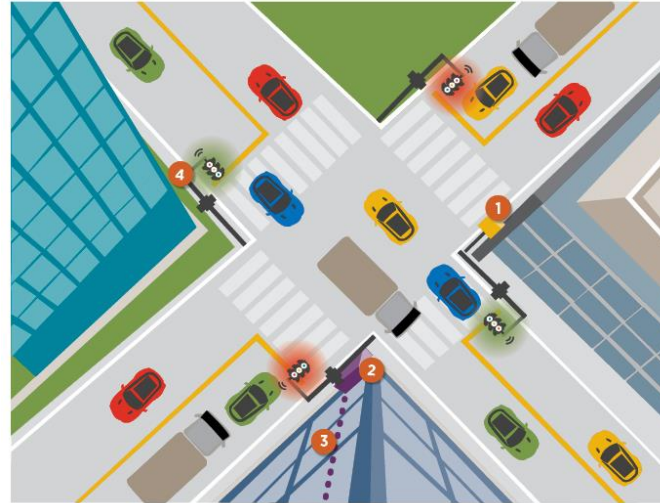


# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## ALL CORRIDORS

### ➤ Project #14: Adaptive Signal Timing

- Conventional signal systems use pre-programmed, daily signal timing schedules.
- Adaptive signal control technology adjusts the timing of red, yellow and green lights to accommodate changing traffic patterns and ease traffic congestion and improve traffic flow.
- Benefits:
  - 1) Continuously distribute green light time equitably for all traffic movements
  - 2) Improve travel time reliability by progressively moving vehicles through green lights
  - 3) Reduce congestion by creating smoother flow
  - 4) Prolong the effectiveness of traffic signal timing



#### Typical Adaptive Signal Control Intersection

- 1 Real-time information on levels of traffic congestion provided by detectors
  - 2 Traffic congestion levels processed in traffic control cabinet
  - 3 Processed traffic information transmitted to cloud server where it provides real-time data for the adaptive system
  - 4 Green time intervals vary based on cloud-based adaptive control system
- Continuous time adjustments sent to the traffic control cabinet

# Zone 3 Projects/Improvements (New Encinitas, Olivenhain and Cardiff)

## ALL CORRIDORS

- **Project #15: Increased Sheriff Enforcement for Vehicles and Bikes**
  - Increase Sheriff enforcement for both motor vehicle and bicycle traffic violations
  - Additional funding would be required for Sheriff staffing.

# Additional Zone 3 (New Encinitas, Olivenhain and Cardiff) Projects from Community

# Zone 3 (New Encinitas, Olivenhain and Cardiff)

**Please provide any questions you may have on the projects before we start our break-out session.**

# 5. Break-Out Session



# Key Questions for Consideration

**Please write down responses via comment cards**

- Q1:** What are your top infrastructure concerns with the future growth of the City? Lack of active transportation facilities (bike lanes and pedestrian walkways), increased traffic delay and congestion, need for traffic calming/reduced speeds, others? Please provide details.
- Q2:** Which corridors/streets do you believe require infrastructure improvements with the future growth of the City?
- Q3:** What factors do you think should be used to prioritize projects? Community input, potential cost, equity, significance of impact, location near a school or park, lack of existing infrastructure in an area, safety, etc.? Please list and rank your top three.
- Q4:** Do you support any projects that were presented? Which ones would you consider to be the top priority?
- Q5:** Are there any projects that were not presented that should be included in this study? Please list them
- Q6:** Please list your top three projects from Questions #4 and 5. Please rank from 1 (top priority) to 3.
- Q7:** Any additional comments?

# 5. Report Back / Q&A Session

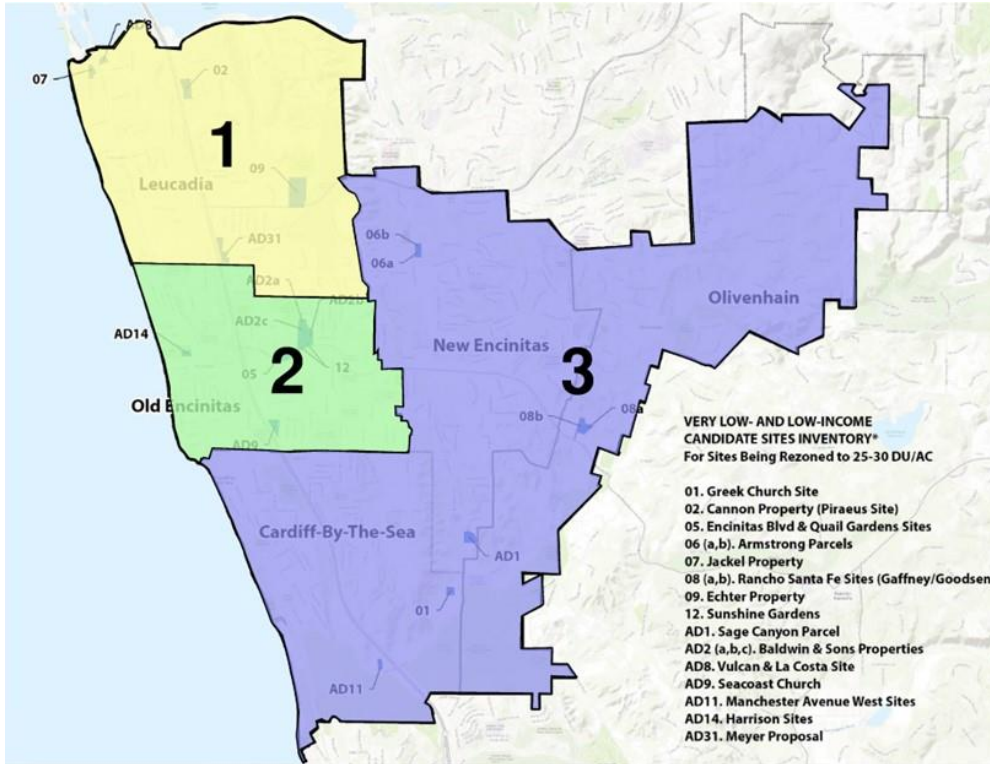
# Report Back

**Please write down responses via comment cards**

- Q1:** What are your top infrastructure concerns with the future growth of the City? Lack of active transportation facilities (bike lanes and pedestrian walkways), increased traffic delay and congestion, need for traffic calming/reduced speeds, others? Please provide details.
- Q2:** Which corridors/streets do you believe require infrastructure improvements with the future growth of the City?
- Q3:** What factors do you think should be used to prioritize projects? Community input, potential cost, equity, significance of impact, location near a school or park, lack of existing infrastructure in an area, safety, etc.? Please list and rank from 1 (top factor) to 3.
- Q4:** Do you support any projects that were presented? Which ones would you consider to be the top priority?
- Q5:** Are there any projects that were not presented that should be included in this study? Please list them.
- Q6:** Please list your top three projects from Questions #4 and 5. Please rank from 1 (top priority) to 3.
- Q7:** Any additional comments?

## 6. Closing & Meeting Activity

# Additional Community Meetings



## Meeting #1 (Zone 1)

**Monday, August 21, 2023**

**Corridors: La Costa Ave, Vulcan Ave, Piraeus St, Saxony Rd, Leucadia Blvd, N. Coast Hwy 101**

## Meeting #2 (Zone 2)

**Tuesday, August 29, 2023**

**Corridors: Quail Gardens Dr, Encinitas Blvd, Saxony Rd, S. Coast Hwy 101, Regal Rd**

## Meeting #3 (Zone 3)

**Wednesday, August 30, 2023**

**Corridors: North and South El Camino Real, Encinitas Blvd, Rancho Santa Fe Rd, Manchester Ave**

**Thank you for attending today's meeting!  
Please turn in comment cards prior to  
leaving.**



**Please contact:  
Matthew Edgeworth, Associate Traffic Engineer  
medgeworth@encinitasca.gov  
760-633-2875**




# Meeting Activity

Please let us know your top three (3) projects using provided stickers


## Rules

- Cannot place all stickers on the same project (everyone's set of stickers contains a unique number on them). Staff will review project boards for duplicate numbers and disqualify these stickers.
- Point system – your #1 project should be given the most points.


**AWARD YOUR TOP PROJECT WITH THE HIGHEST NUMBER OF POINTS.**

 = 3 Points

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 = 2 Points

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 = 1 Point