

# Safety & Mobility Improvements near Housing Element Sites Community Meeting

**Zone #1 (Leucadia)**

Monday, August 21, 2023

**Welcome!**

*We will begin in  
a few minutes.*



# Housekeeping



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

# Agenda

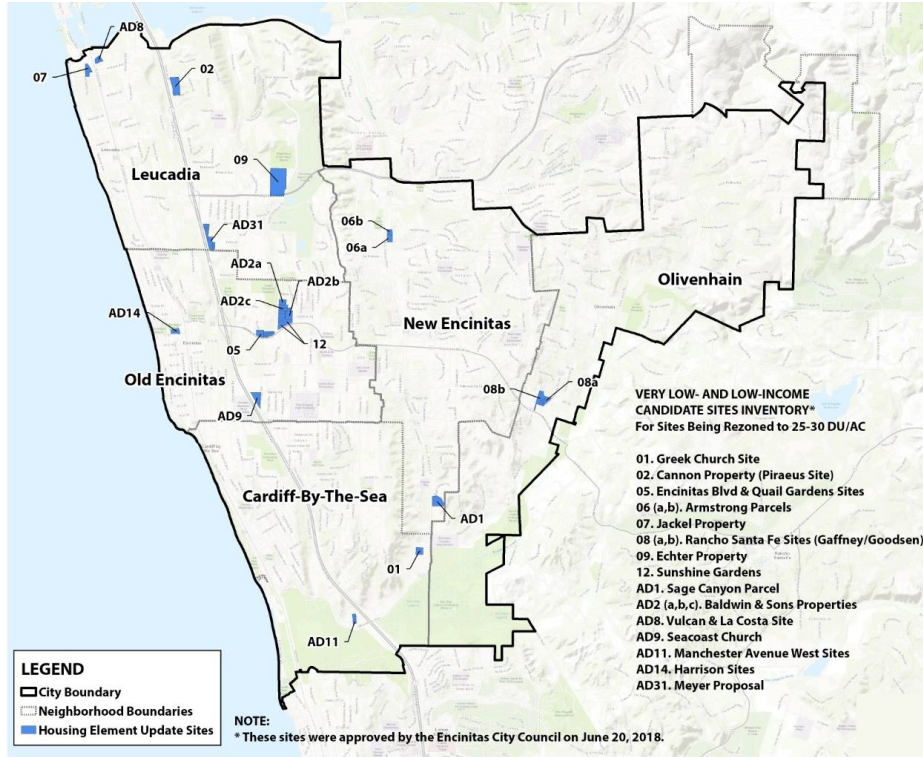


- 1. Welcome!**
- 2. Background**
- 3. Scope, Current Schedule of Study, & Future Steps**
- 4. Potential Projects/Improvements**
- 5. Break-out Session**
- 6. Report Back**
- 7. Closing & Meeting Activity**

## **2. 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.

# 3. Scope and Schedule

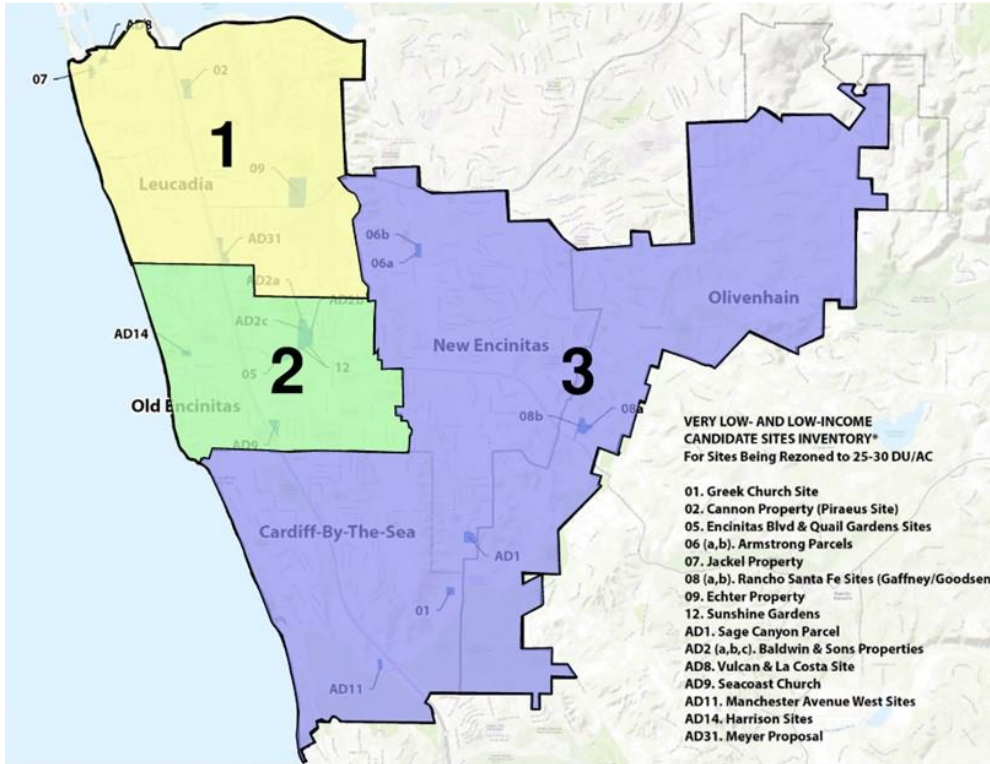
# Scope



- 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



# 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)

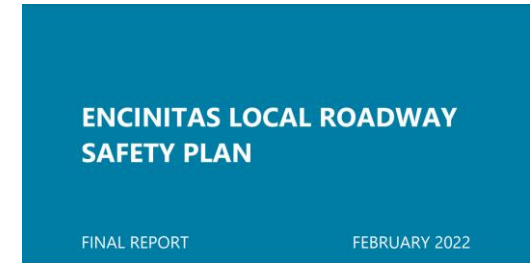
**Wednesday, August 30, 2023**

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

# Approved City Documents

➤ **This study incorporates projects identified in previously approved city planning documents and builds on previous work.**

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



Prepared for:  
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JC02076

# 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:

### ➤ **Fox Point Farms/Echter Property/Site 09 (Leucadia Blvd/Quail Gardens Drive)**

- At the Saxony Road/Leucadia Boulevard intersection, the applicant shall modify the traffic signal operations to convert the northbound and southbound approaches to protected-permissive left turn operations.
- At the Garden View Road/Leucadia Boulevard intersection optimize or install traffic systems management strategies (such as adaptive signal timing) to the satisfaction of the Director of Development Services. Signal optimization could include reoptimizing cycle lengths and/or signal splits to better accommodate future traffic demand along the corridor.
- Reconstruct the median on Quail Gardens Drive north of the Quail Gardens Drive/Leucadia Blvd intersection to lengthen the southbound left turn storage by 25 feet.
- The applicant shall pay Traffic Mitigation Fees.



# Improvements Conditioned with Projects



## Examples:

### ➤ Marea Village/Jackel Property/Site 07 (North Coast Highway 101)

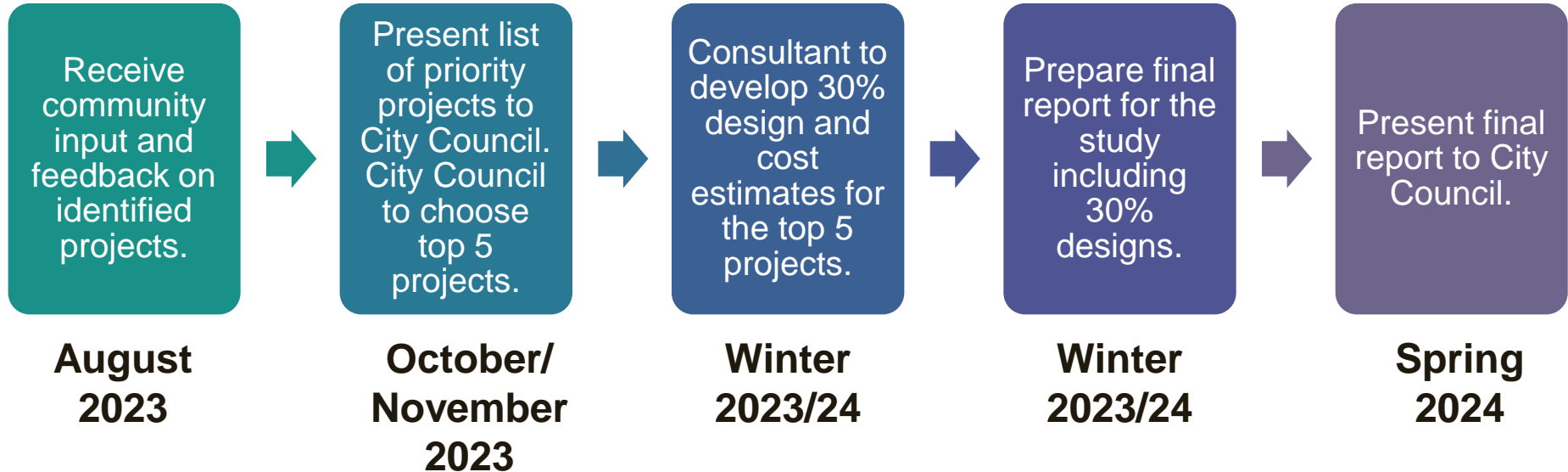
- The project shall fully design, permit and construct a roundabout including the splitter islands, signing and striping, landscaping and irrigation to the satisfaction of the City Engineer at the project entrance on North Coast Highway 101 in coordination with the City's Leucadia Streetscape project. At each stage of design (30%, 60%, 90% and final), the design shall be reviewed and approved by the City Engineer and City Traffic Engineer.
- Public improvements including curb, gutter, sidewalk and drainage improvements shall be required along the property frontage of North Coast Highway 101.
- The project is to provide six bicycle racks as required per the Municipal Code.
- The applicant shall pay Traffic Mitigation Fees.



# Current Schedule



# Future Steps



# 4. Potential Projects/Improvements

# Zone 1 Projects/Improvements (Leucadia)

## NORTH COAST HIGHWAY 101 CORRIDOR

### ➤ Project #1: Bicycle Box at North Coast Highway 101/ La Costa Avenue Intersection

- Install bicycle box on southbound approach of North Coast Highway 101/La Costa Avenue intersection
- Improvement feasible to implement with restriping and relocation of vehicle detector loops
- Provides a protected area for bicyclists to make southbound left turn onto eastbound La Costa Avenue



# Zone 1 Projects/Improvements (Leucadia)

## NORTH VULCAN AVENUE CORRIDOR

### ➤ Project #2: Buffered Class II Bike Lanes (both directions) and Sidewalk (east side)

- Provide buffered Class II bike lanes and sidewalk on Vulcan Avenue from La Costa Avenue to 550' south of La Costa Avenue
- Will provide bike/ped connection between La Costa Avenue and future multi-use path on Vulcan Avenue (Project #3)
- Improvement identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- HEU Site AD8 (1967 Vulcan Avenue) will widen 400' along east side of Vulcan Avenue as part of required frontage improvements
- Northern 150' of sidewalk on east side to La Costa Avenue will require fill retaining wall along slope
- Can construct in phases/segments if funding is limited. Would need to prioritize segments.





# Zone 1 Projects/Improvements (Leucadia)

## NORTH VULCAN AVENUE CORRIDOR

### ➤ Project #3: North Vulcan Avenue Multi-Use Path

- Construct Class I multi-use path along west side of North Vulcan Avenue within existing dirt parking areas (1.25 miles)
- Improvement identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- Existing unmarked 90-degree parking areas is be removed and replaced with parallel parking
- Improvement may be very costly to construct. Cost dependent on type of material to be used



# Zone 1 Projects/Improvements (Leucadia)

## LA COSTA AVENUE CORRIDOR

### ➤ Project #4: La Costa Avenue Multi-Modal Improvements

- Widen both sides of La Costa Avenue from Vulcan Avenue to Southbound I-5 Ramps to provide:
  - Two-way left-turn lane (TWLTL)
  - Buffered Class II bike lanes
  - Sidewalks
- Improvements identified in the City's 2018 **ATP** and City of Encinitas General Plan
- Improvement can be built within City's ROW along most of corridor
- Will require relocation/undergrounding of multiple power line poles along corridor
- Can construct in phases/segments if funding is limited



# Zone 1 Projects/Improvements (Leucadia)

## LA COSTA AVENUE CORRIDOR

### ➤ Project #5: Traffic Signal at La Costa Avenue/Vulcan Avenue Intersection

- All-way stop implemented at the intersection in 2021. Prior to this, stop sign only at Vulcan Avenue approach.
- Traffic signal lights have the potential to impact adjacent residents at night.
- May need to be synchronized with the existing traffic signal at La Costa Avenue/North Coast Highway 101 due to proximity



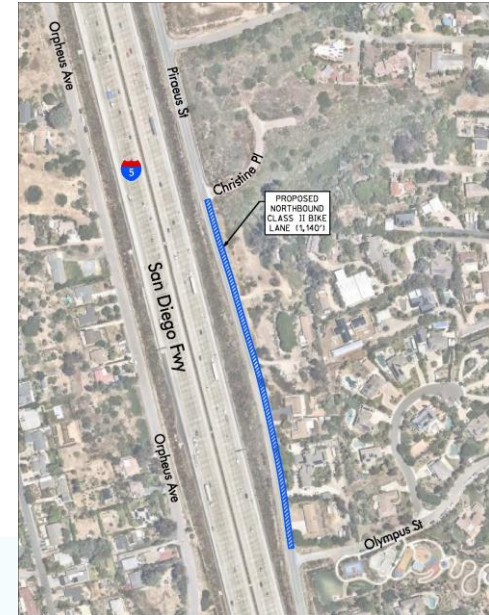


# Zone 1 Projects/Improvements (Leucadia)

## PIRAEUS STREET CORRIDOR

### ➤ Project #6: Piraeus Street Class II Bike Lane (northbound only)

- Install Class II bike lane on northbound Piraeus Street from Olympus Street to Christine Place
- Improvement identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- Class II bike lane on this segment was previously not implemented due to impacts to street parking adjacent to existing residential properties
- Class III "sharrow" pavement markings currently in place on northbound Piraeus Street
- A "hybrid" Class II bike lane and parallel parking lane could be considered, with street parking allowed overnight between 6:00pm and 6:00am

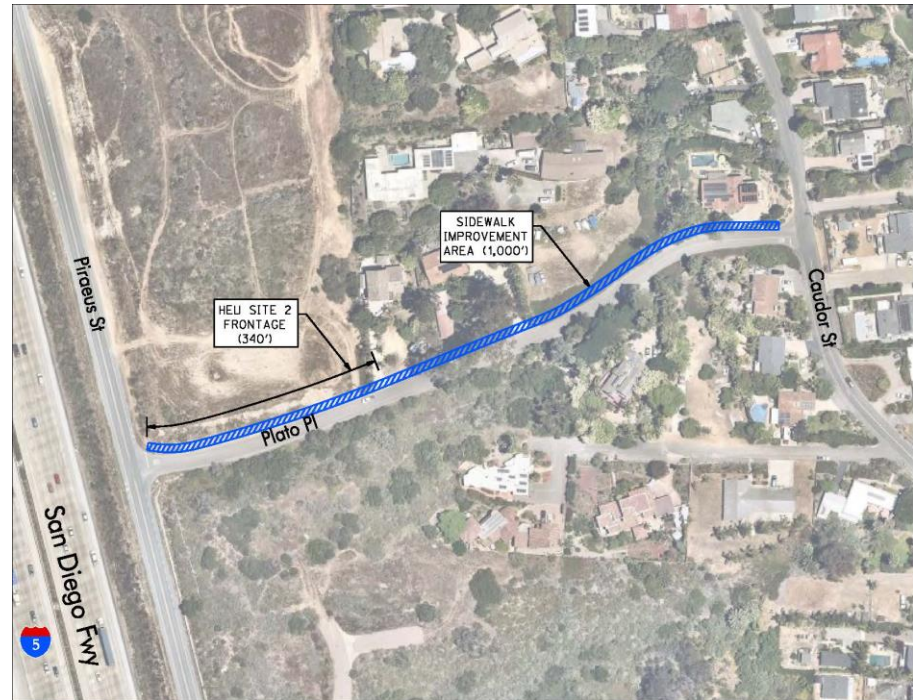


# Zone 1 Projects/Improvements (Leucadia)

## PIRAEUS STREET CORRIDOR

### ➤ Project #7: Plato Place Sidewalk (north side only)

- Install sidewalk on north side of Plato Place from Piraeus Street to Caudor Street (1,000')
- Approximately 340' of sidewalk along Plato Place would be constructed by the Piraeus Point project (HEU Site 02) as part of their required frontage improvements
- Additional ROW or removal of existing encroachments may be needed along 3 residential properties
- Retaining wall may be needed along existing channel and along 2 properties



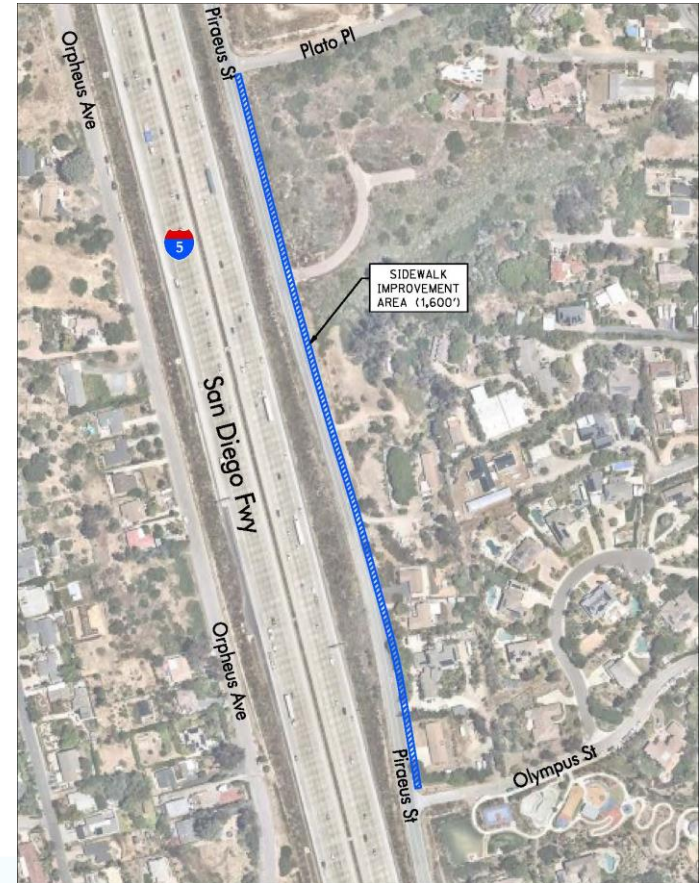


# Zone 1 Projects/Improvements (Leucadia)

## PIRAEUS STREET CORRIDOR

### ➤ Project #8: Piraeus Street Sidewalk (east side only)

- Install sidewalk on east side of Piraeus Street from Plato Place to Olympus Street (1,600')
- Improvement would provide a pedestrian connection between the Piraeus Point project (HEU Site 02) and the existing Olympus Park on Olympus Street
- Additional ROW may be needed along residential properties just north of Olympus Street
- Several cut & fill retaining walls may be needed along project segment

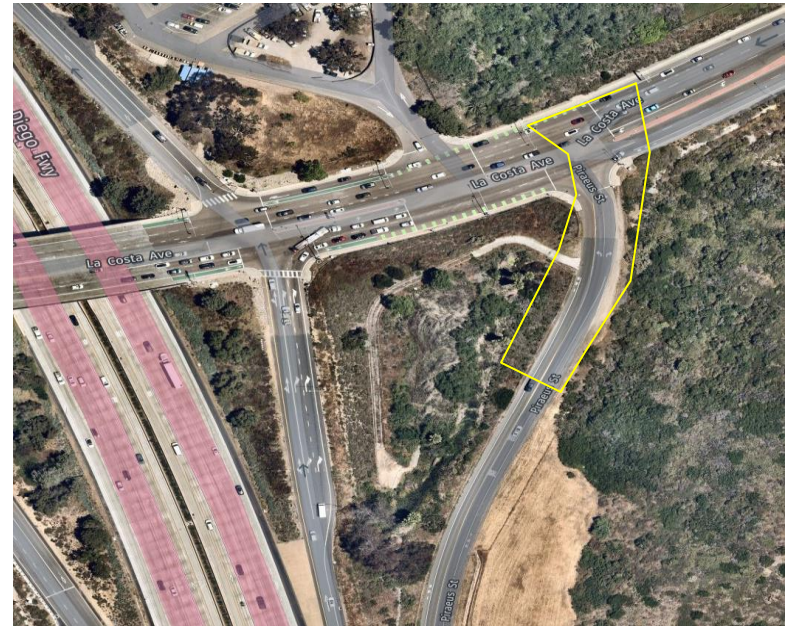


# Zone 1 Projects/Improvements (Leucadia)

## PIRAEUS STREET CORRIDOR

### ➤ Project #9: Left-Turn Lane Improvement at Piraeus Street/La Costa Ave Intersection

- Modify northbound approach of intersection through restriping and/or pavement widening to provide additional storage.
- Improvement needed to prevent left-turn queues from blocking access to right-turn storage lane
- Widening limited to east side of street only
- Widening may intrude into environmentally sensitive area, further evaluation of feasibility necessary
- Improvement area is in City of Carlsbad and will require Carlsbad review and approval
- Caltrans review may also be required as signal at intersection is coordinated with signals at I-5 ramp intersections and park & ride lot



# Zone 1 Projects/Improvements (Leucadia)

## SAXONY ROAD CORRIDOR

### ➤ Project #10: Saxony Road Class II Bike Lanes

- Install Class II bike lanes on Saxony Road from Leucadia Blvd to Ecke Ranch Road (0.6 mile)
- Improvement identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- Existing shoulder lane striped at approximate width of Class II bike lane along some of corridor and is not being used for on-street parking
- On-street parking underutilized between Sidonia Street and Ecke Ranch Road with minimal parking impacts anticipated
- On-street parking more utilized between Leucadia Blvd and Sidonia Street where parking impacts are anticipated to be greatest



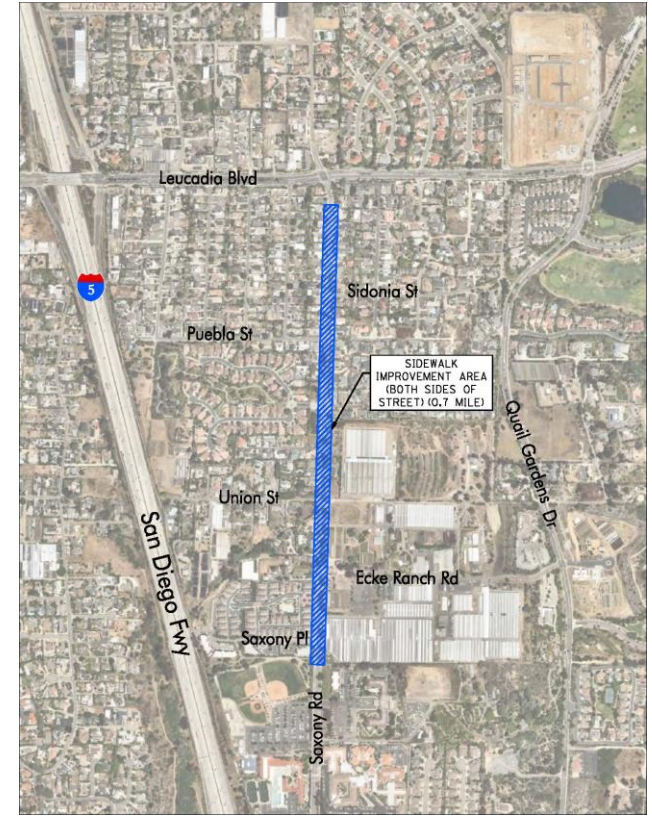


# Zone 1 Projects/Improvements (Leucadia)

## SAXONY ROAD CORRIDOR

### ➤ Project #11: Saxony Road Sidewalk Infill (both sides of street)

- Install sidewalks on Saxony Road where gaps exist from 200' south of Leucadia Blvd to 160' south of Saxony Place (0.7 mile)
- Improvement identified in the City's 2018 **ATP** and 2023 **MAP** Implementation Plan
- Most of the sidewalks can be constructed within the City's existing ROW
- Additional ROW may be needed along existing non-contiguous dirt pathway on east side between Polaris Street and Union Street
- Construction of sidewalks may require removal of multiple mature trees, particularly on east side between Union Street and Ecke Ranch Road
- Can be phased into segments if funding is limited. Would need to prioritize segments.



# Zone 1 Projects/Improvements (Leucadia)

## SAXONY ROAD CORRIDOR

### ➤ Project #12: Union Street Class III Bike Route Signage & Pavement Markings

- Install Class III bike route signage and pavement markings (sharrows) on Union Street from Saxony Road to terminus at I-5 (1,260')
- Improvement identified in the City's 2023 **MAP** Implementation Plan
- Improvement would provide bicycle connection between Saxony Road and future bicycle/pedestrian bridge over I-5 freeway



# Zone 1 Projects/Improvements (Leucadia)

## SAXONY ROAD CORRIDOR

### ➤ Project #13: Union Street DG Pedestrian Path

- Construct Decomposed Granite (DG) pedestrian path along north of Union Street from Saxony Road to terminus at I-5 (1,260')
- Improvement identified in the City's 2018 **ATP**
- Approximately 200' would be constructed by the Clark Avenue Apartments project (HEU Site AD31) as part of their required frontage improvements
- Improvement would provide pedestrian connection between Saxony Road and future bicycle/pedestrian bridge over I-5 freeway
- Extensive removal of vegetation and multiple trees would be necessary
- Potential ROW impacts with adjacent residential properties





# Zone 1 Projects/Improvements (Leucadia)

## ALL CORRIDORS

### ➤ Project #14: 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

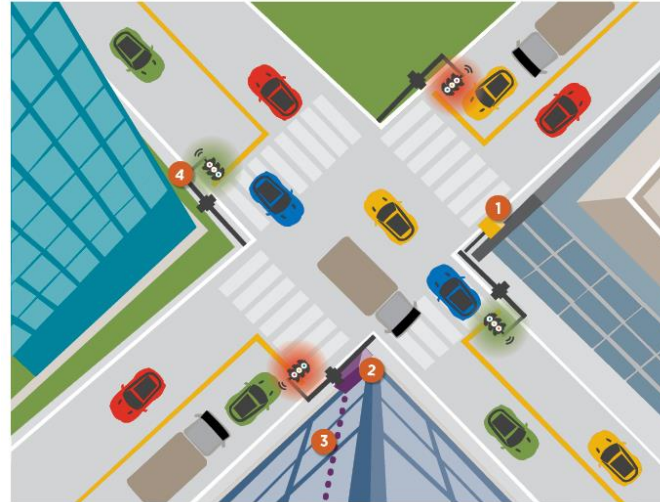


# Zone 1 Projects/Improvements (Leucadia)

## ALL CORRIDORS

### ➤ Project #15: 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
- Continuous time adjustments sent to the traffic control cabinet
- 4 Green time intervals vary based on cloud-based adaptive control system

# Additional Zone 1 (Leucadia) Projects from Community

# Zone 1 Projects/Improvements (Leucadia)

**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, 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?

# 6. 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, 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?

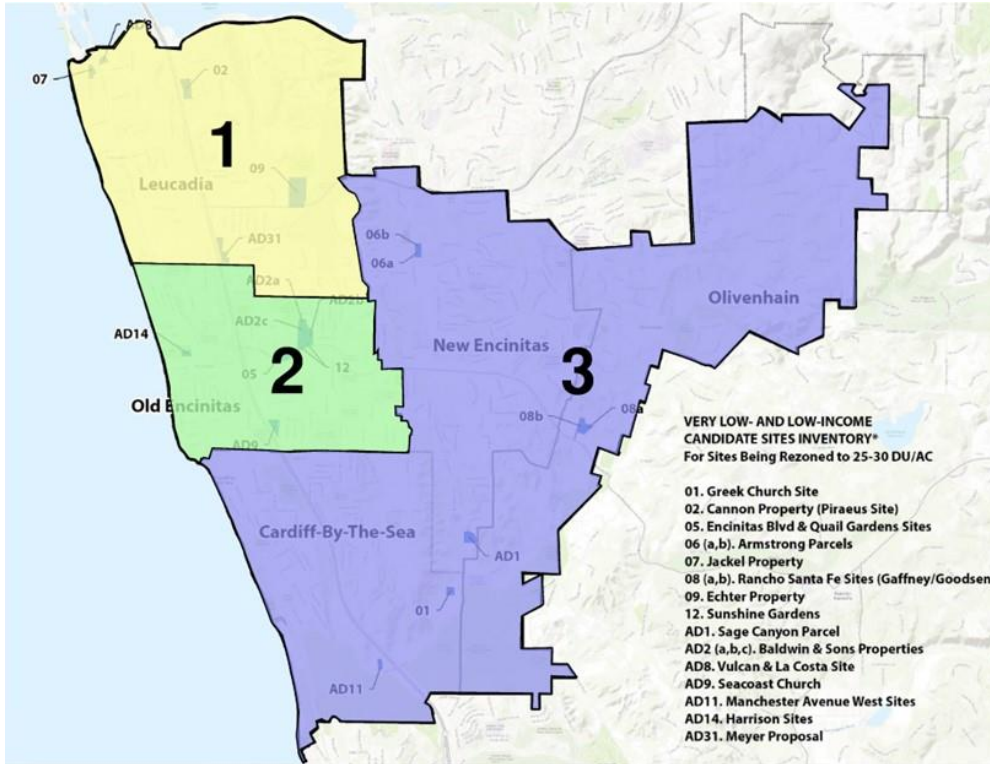
**Q5:** Are there any projects that were not presented that should be included in this study? Please list them.

**Q6:** Please list your top three projects from Questions #4 and 5. Please rank from 1 (top priority) to 3.

**Q7:** Any additional comments?

# 7. 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 have 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