

# CITY OF ENCINITAS

## INFRASTRUCTURE NEEDS & FUTURE PROJECTS

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ENGINEER II

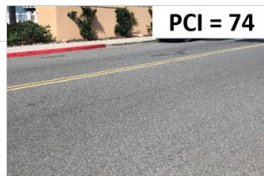
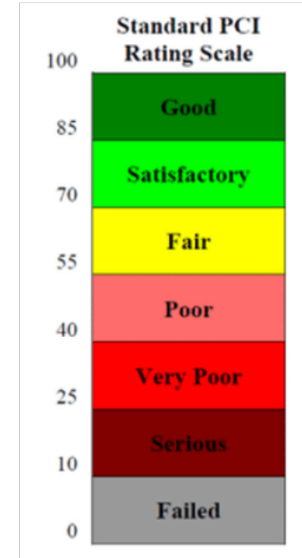
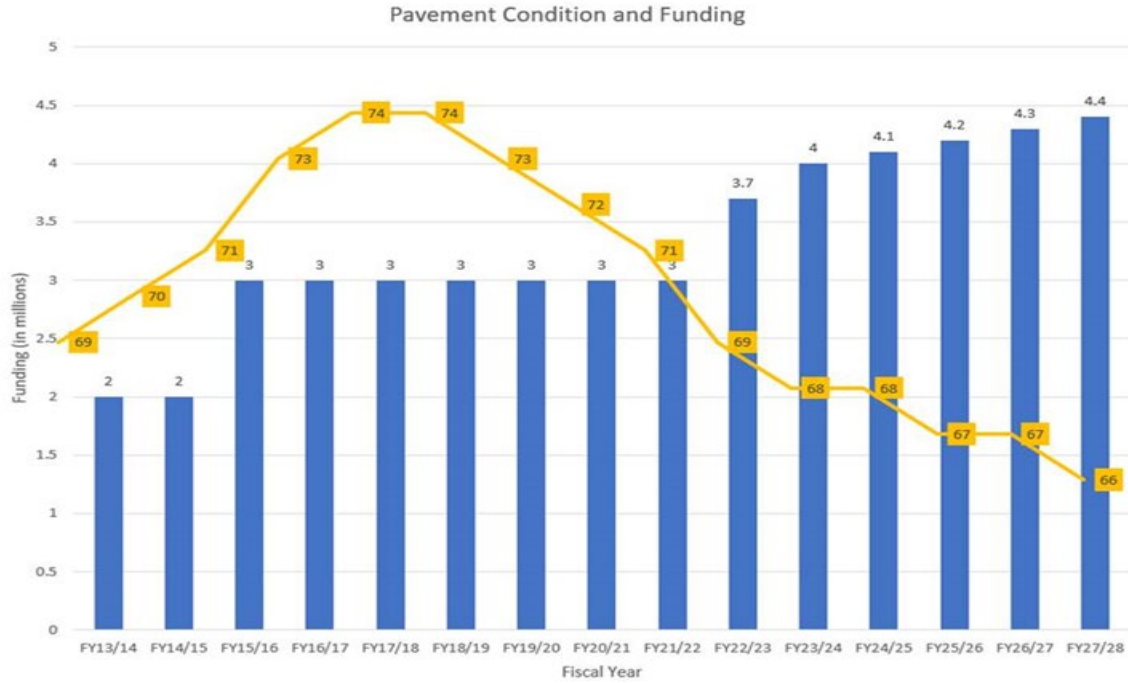


# AGENDA

- 1. HIGHWAY AND STREET PROJECTS**
- 2. BRIDGE PROJECTS**
- 3. DRAINAGE IMPROVEMENTS**
- 4. TRAIL PROJECTS**
- 5. RAILWAY PROJECTS**
- 6. ADA AND MOBILITY PROJECTS**

# HIGHWAY AND STREET PROJECTS

# CITYWIDE OVERLAY AND SLURRY PROJECT



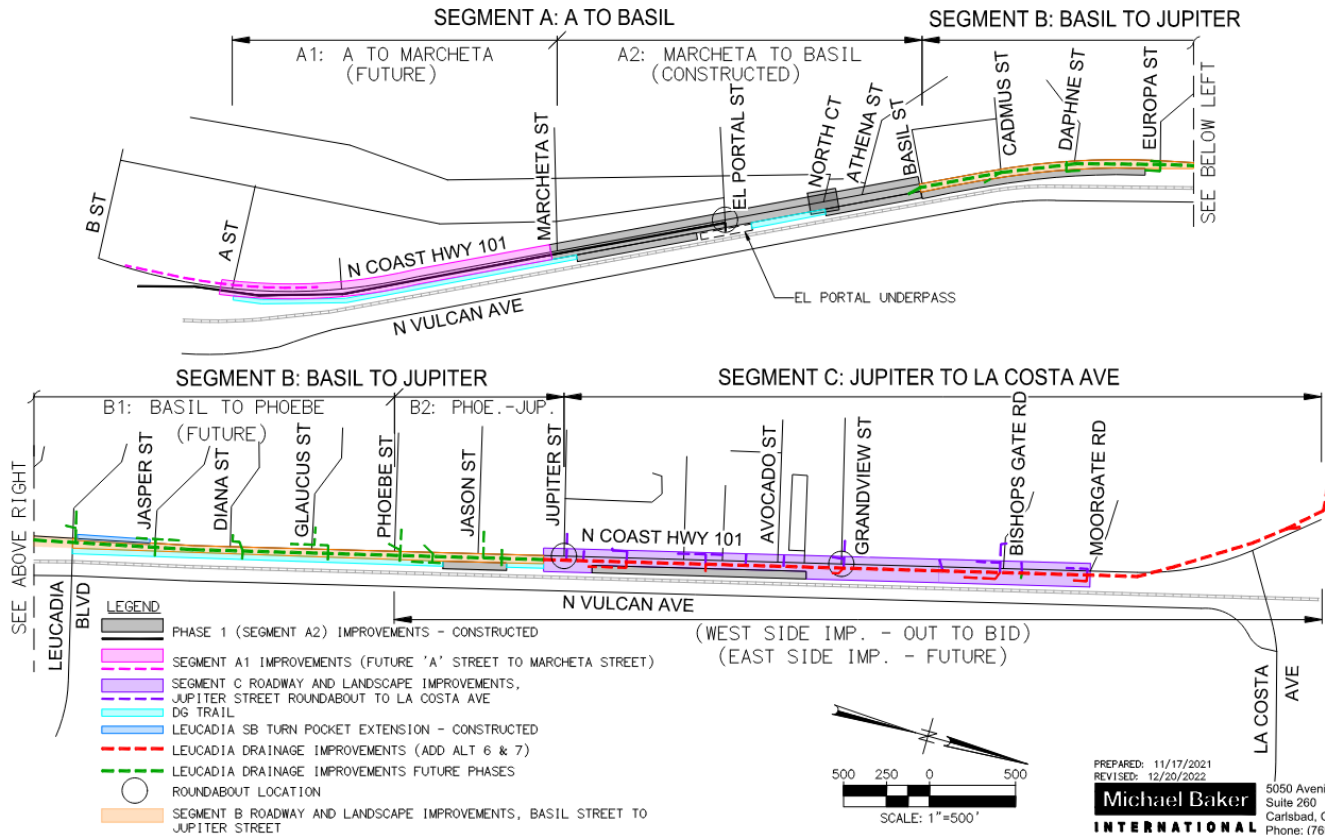
# CITYWIDE OVERLAY AND SLURRY PROJECT = \$11M / FY





# LEUCADIA STREETSCAPE AND 101 DRAINAGE = \$53M

## N COAST HWY 101 - PROJECT PHASING EXHIBIT



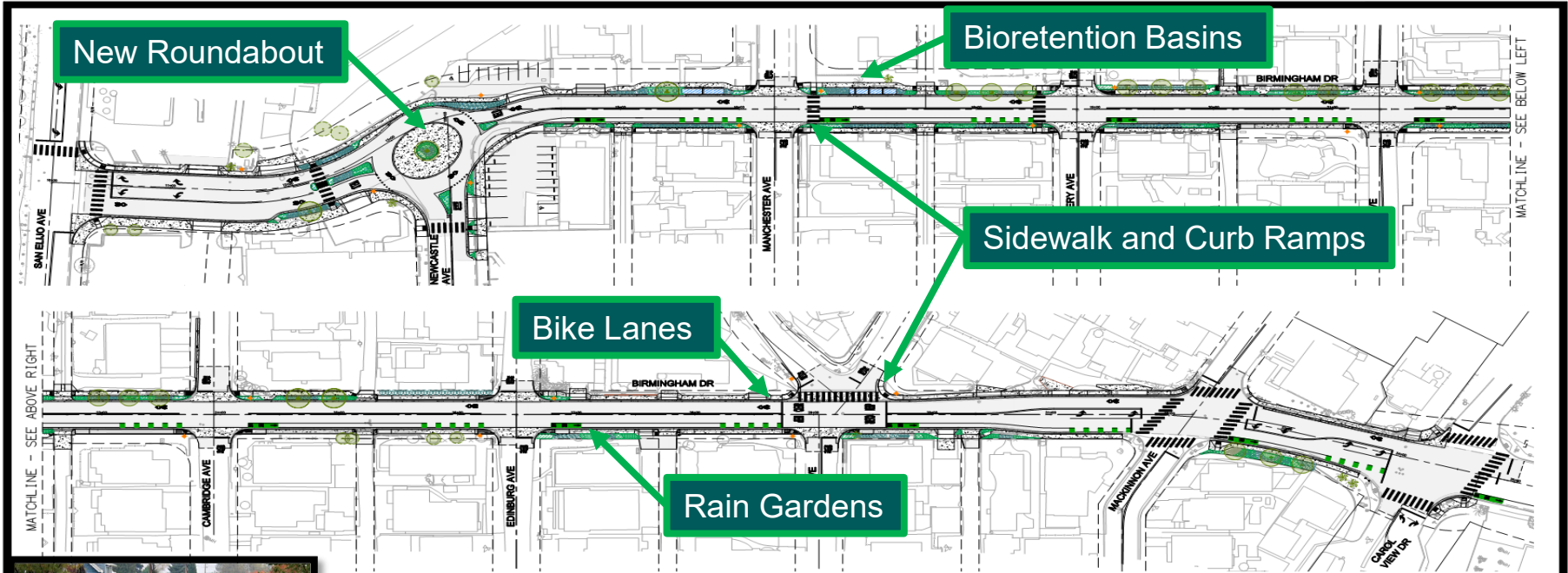
## PROJECT BUDGET

N101 Drainage = \$22M  
(Partially Funded, Need \$18M)

Segment A1 South = \$10M  
(Unfunded)

Segment B = \$25M (Unfunded)

# BIRMINGHAM DRIVE COMPLETE STREETS = \$12M



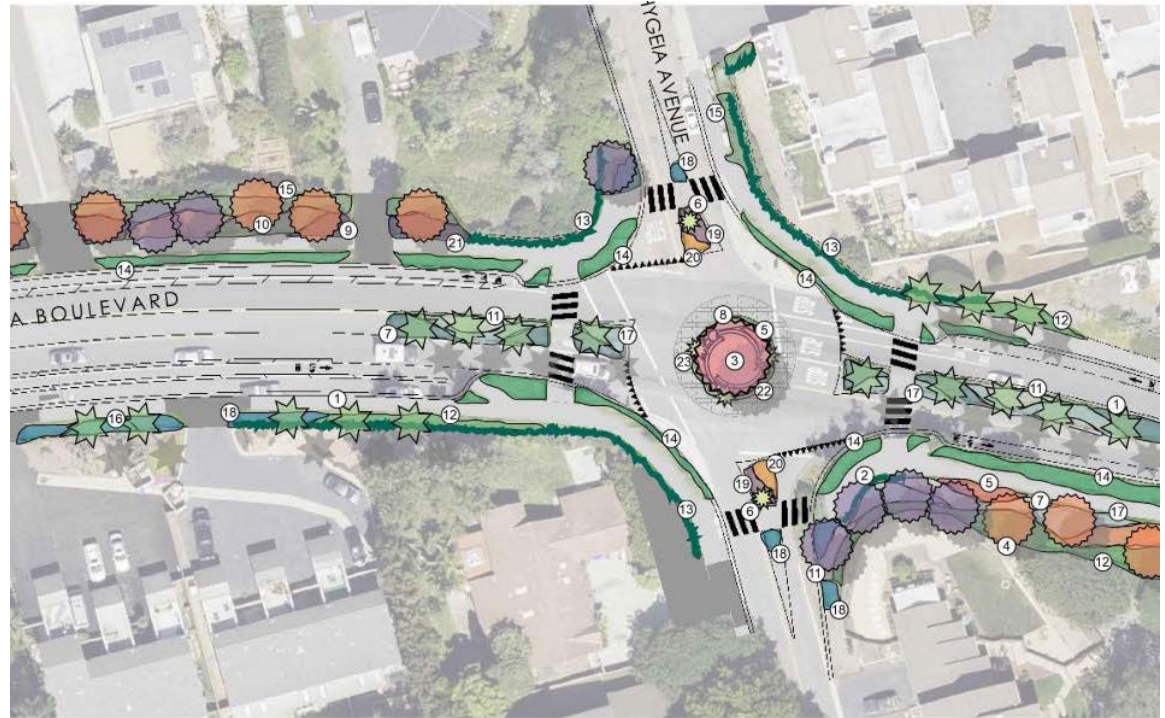
- DESIGN - Complete
- EASEMENT ACQUISITION - Almost complete
- CONSTRUCTION - \$6M
- UNDERGROUND DESIGN AND CONSTRUCTION (partially funded) - \$6M

# LEUCADIA BLVD./HYGEIA AVE. ROUNDABOUT = \$4.8M

## PROJECT BUDGET

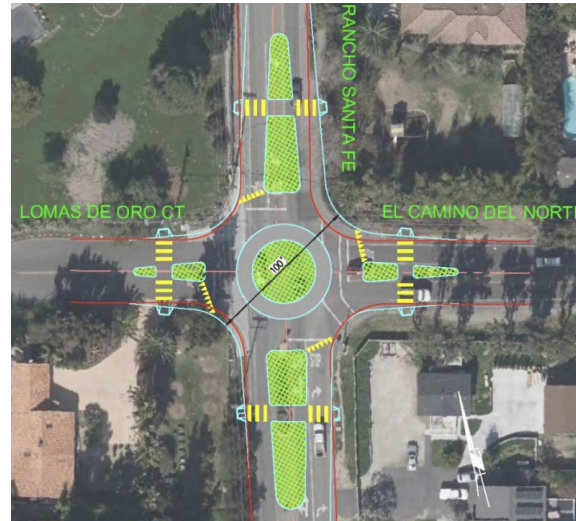
Planning, design, & environmental is complete.

Construction is not fully funded.





# RANCHO SANTA FE ROUNDABOUTS = \$8M



## LOCATIONS

Lone Jack Rd.  
Camino del Norte

## PROJECT BUDGET

\$3,000,000 is needed to fund planning and design

\$5,000,000 is needed to fund construction

# BRIDGE PROJECTS

# LEUCADIA BLVD. BRIDGE REPAIR = \$500,000



## PROJECT BUDGET

Repair and patch PCC spalls on both sides of bridge rails. Estimated cost is \$30,000 for design and \$250,000 for construction.

Apply methacrylate on entire deck which has cracks. Estimated cost is \$220,000

# SAN ELIJO BRIDGE REPLACEMENT = \$17M



## PROJECT BUDGET

Estimated cost to fund preliminary engineering, design, and construction is \$17M.

### STRUCTURAL HEALTH CONDITION SUMMARY INFORMATION

(58) DECK	7 GOOD	DECK AREA (M) <sup>2</sup>	1,293
(59) SUPERSTRUCTURE	7 GOOD	SUFFICIENCY RATING	60.4
(60) SUBSTRUCTURE	4 POOR	PAINT CONDITION	N/A
(62) CULVERT	N N/A (NBI)	STRUCTURALLY DEFICIENT (SD) STATUS	SD
(67) STRUCTURE EVALUATION	4 MINIMUM TOLERABLE (113) SCOUR	5 STABLE W/IN FOOTING	

# LA COSTA BRIDGE REPLACEMENT = \$9M

## PROJECT BUDGET

Estimated cost to fund preliminary engineering, design, and construction is \$9M.



## STRUCTURAL HEALTH CONDITION SUMMARY INFORMATION

(58) DECK	5 FAIR	DECK AREA (M) <sup>2</sup>	360
(59) SUPERSTRUCTURE	5 FAIR	SUFFICIENCY RATING	48.4
(60) SUBSTRUCTURE	7 GOOD	PAINT CONDITION	N/A
(62) CULVERT	N N/A (NBI)	STRUCTURALLY DEFICIENT (SD) STATUS	NOT SD
(67) STRUCTURE EVALUATION	4 MINIMUM TOLERABLE (113) SCOUR		N NOT OVER WATERWAY



# DRAINAGE IMPROVEMENTS

# JASON STREET DRAINAGE IMPROVEMENTS = \$650,000

- Project to install storm pipe under the railroad from Vulcan to Hwy 101
- Design is complete. Permitting and MOU with NCTD pending.



# 4<sup>TH</sup> STREET STORM DRAIN PROJECT = \$2.5M



- Project to install storm drain pipe along 4<sup>th</sup> and Sylvia Street in Leucadia
- Project would reduce flooding just north of B Street in Leucadia
- Partially designed: Need \$200K to finalize
- Need \$2.3M for construction phase

# LAKE DRIVE STORM DRAIN IMPROVEMENT = \$6.5M



- Project to replace ~2,000 feet of compromised corrugated metal pipe with reinforced concrete pipe.
- Significant environmental costs
- 90% design complete and in permitting



# VULCAN Ave Q3 Study = \$30M

## Complete Drainage Study of Leucadia





# TRAIL PROJECT

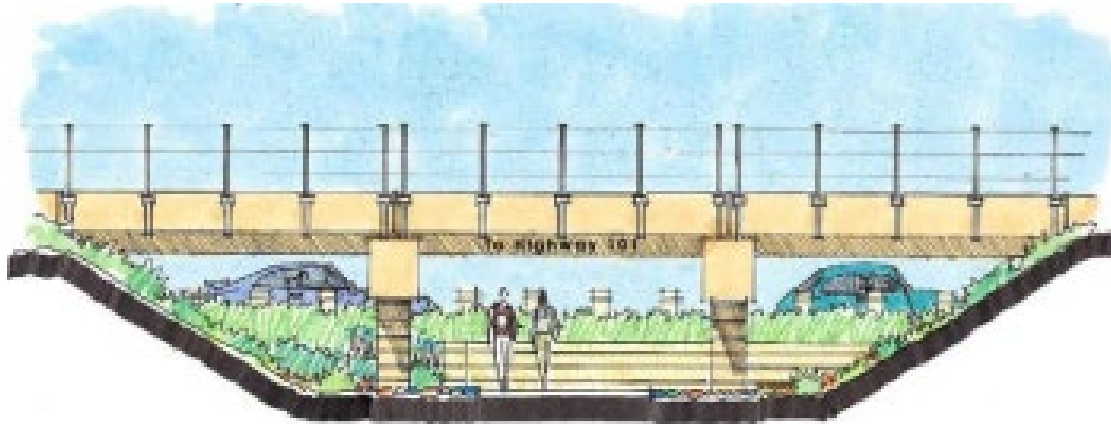
# COASTAL RAIL TRAIL = TBD



The project's planning, design, and construction budget is unknown and is not funded.

# RAILWAY PROJECTS

# VERDI PEDESTRIAN CROSSING = \$16M



LOOKING WEST THROUGH THE BRIDGE

## PROJECT BUDGET

The Design phase is complete.

The Construction phase is estimated to cost \$16M dollars and is not funded.

# CITYWIDE RAILWAY QUIET ZONE = \$11M

## PROJECT LOCATION

LOSSAN/NCTD Rail corridor in the City of Encinitas through the communities of Leucadia, Old Encinitas, and Cardiff by-the Sea. With Quiet Zone Crossings at:

- Leucadia Blvd. roadway crossing
- Encinitas Station pedestrian crossing
- East D Street roadway crossing
- East E Street roadway crossing
- Verdi/Montgomery Avenue proposed pedestrian crossing

## PROJECT BUDGET

City Council approved \$750,000 for initial analysis and conceptual design and is included in the Capital Improvement Program budget. \$11,000,000 is needed to fund the construction phase.



**TRAIN HORN  
RULES**



# LEUCADIA AT-GRADE CROSSINGS = \$6M



## PROJECT BUDGET

Conceptual design is complete.

\$6,000,000 is needed to fund design completion and the construction phase.

## PROJECT LOCATION

At-grade rail crossings for cyclists and pedestrians are proposed at Grandview/Hillcrest and Glaucus.

# RAIL CORRIDOR TRENCHING = \$50M

## PROJECT BUDGET

An estimated \$50M is needed for preliminary engineering, environmental analysis, design, permitting, and construction.



# ADA AND MOBILITY PROJECTS

# ADA TRANSITION PLAN = \$500,000



- Document containing list of Projects needed to bring the City into ADA Compliance
- Documentation of ADA discrepancies
- Created ~ 2019 and updated annually
- Developed by Staff and Consultants

# VULCAN AVE. PEDESTRIAN PATH = \$2.1M



- \$350,000 is needed for design
- \$1,750,000 is needed to construct Vulcan Ave. path



# LA COSTA AVE. PEDESTRIAN PATH = \$700,000



- City Council granted General Funds to fund the planning and design of the La Costa Ave. Pedestrian Path.
- \$100,000 is needed to complete design
- \$600,000 is needed to construct La Costa Ave. path

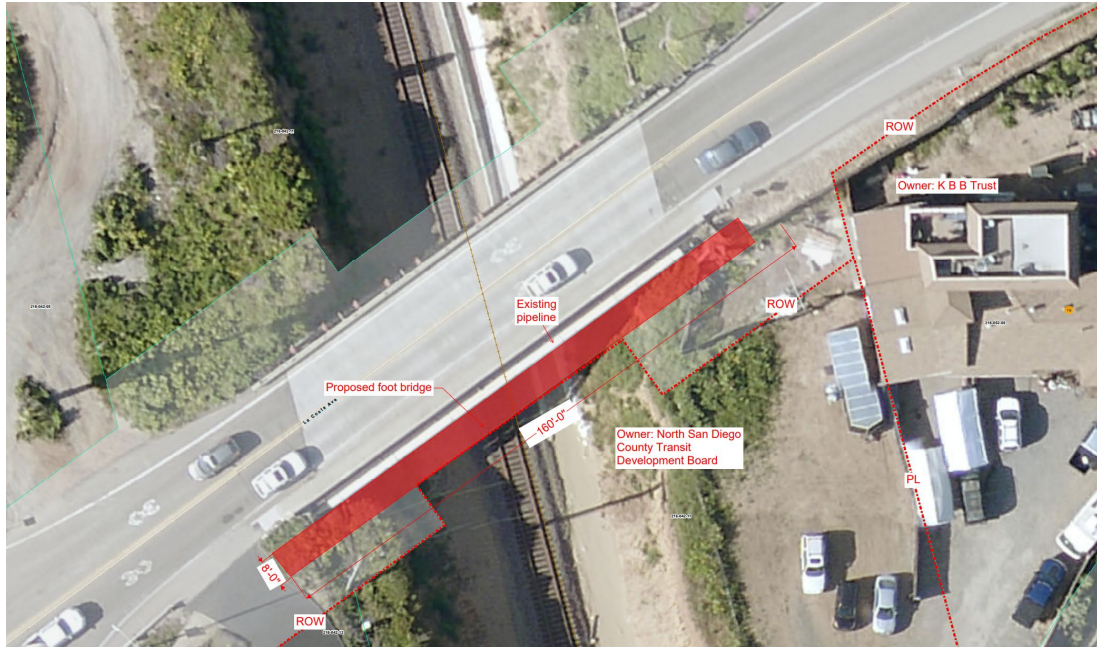
# SAN ELIJO BRIDGE SIDEWALK = \$2.5M

## PROJECT BUDGET

- \$500,000 is needed for planning and design
- \$2,000,000 is needed for construction



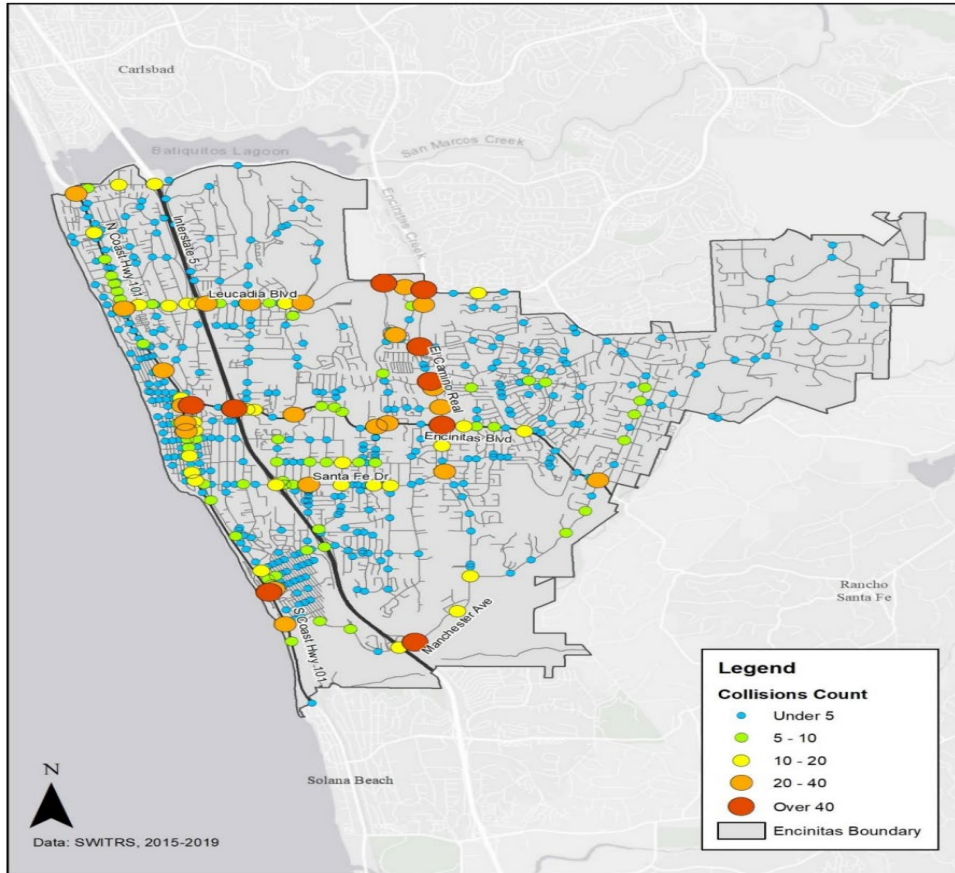
# LA COSTA PEDESTRIAN BRIDGE = \$2M



## PROJECT BUDGET

- \$500,000 is needed for planning and design
- \$1.5M is needed for construction

# LHSP & VISION ZERO = \$4M



## PROJECT SCOPE

- Multiple Locations throughout the City to improve safety
- Goal is to reduce Collisions
- \$4M need to completely fund all recommended safety items



# CROSS CONNECT = \$120M



CITY OF ENCINITAS



RAIL CORRIDOR CROSS-CONNECT IMPLEMENTATION PLAN

## PROJECT SCOPE

- Multiple (20) crossings on the LOSSAN Railroad throughout the City
- \$120M need to completely fund all recommended crossings

# SOLANA BEACH CROSSWALK = \$500,000



## PROJECT BUDGET

- \$150,000 is needed for planning and design
- \$350,000 is needed for construction