

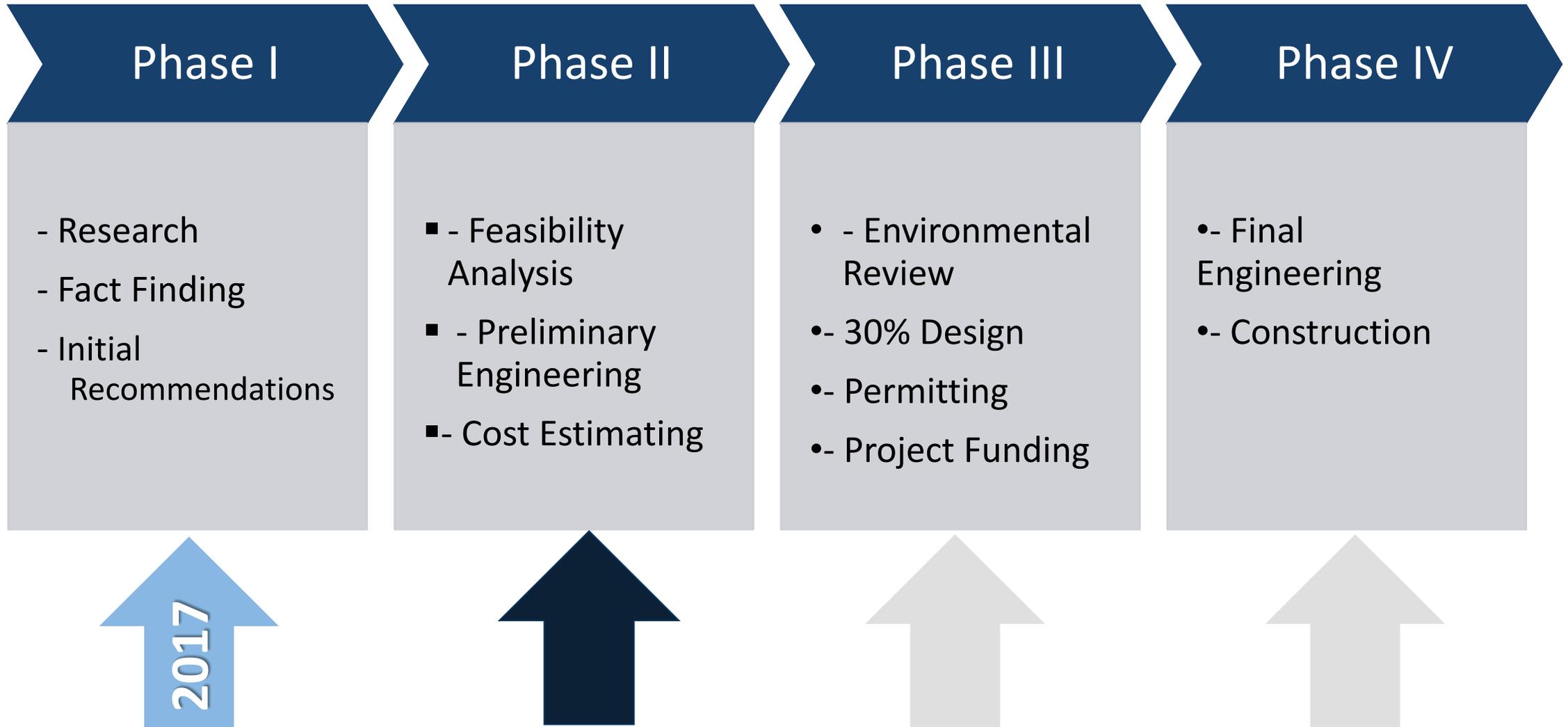
# Lomas Santa Fe Corridor Study

Community Meeting – May 24, 2018

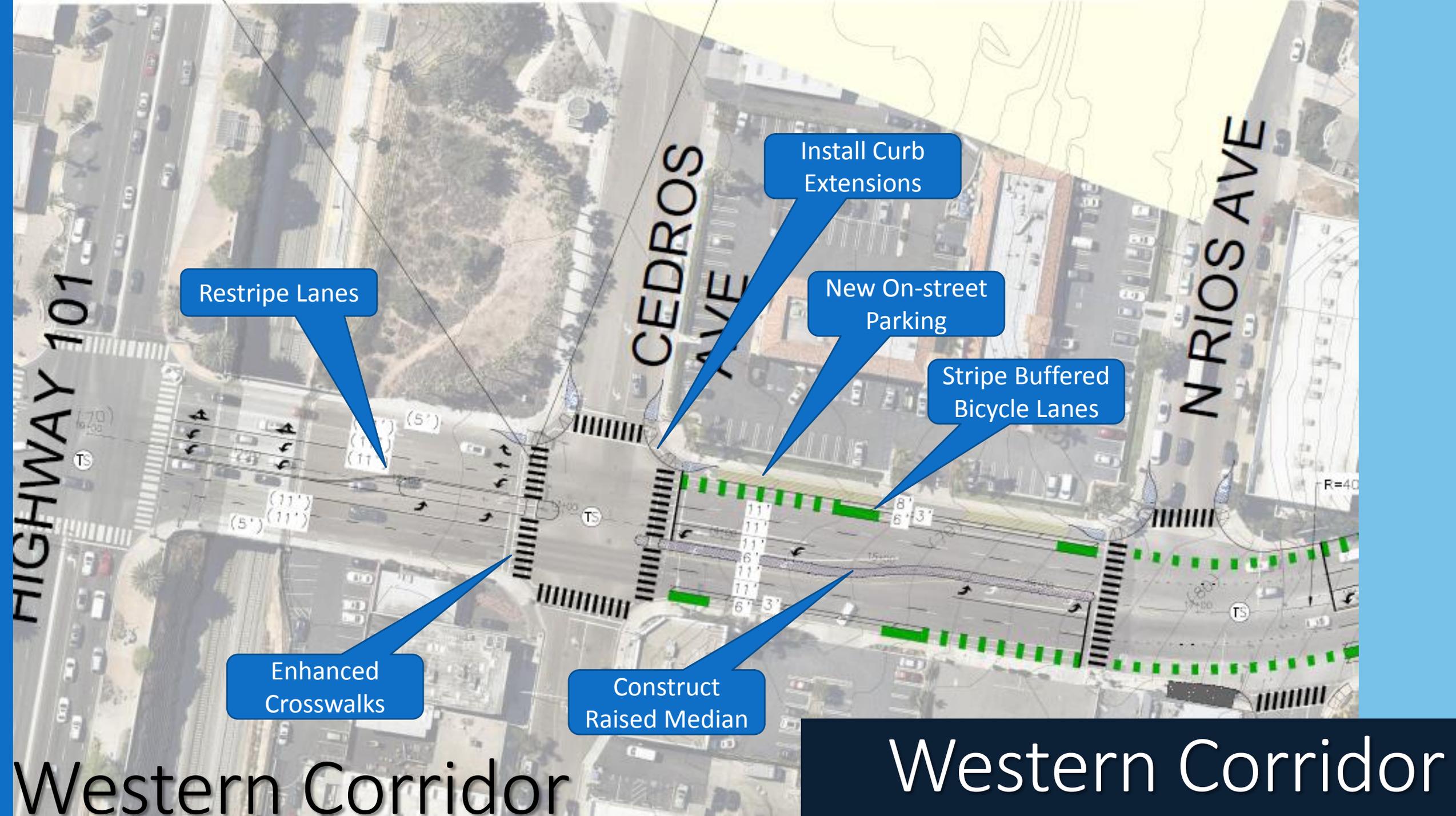
# Meeting Overview

- Welcome
- Purpose of Meeting
- Overview of Proposed Improvements
- Open House

# Project Approach



# Review Proposed Improvements



Restripe Lanes

Install Curb Extensions

New On-street Parking

Stripe Buffered Bicycle Lanes

Enhanced Crosswalks

Construct Raised Median

Western Corridor

Western Corridor

N RIOS AVE

GRANAD

Construct New Sidewalk

Construct "Spot" Medians

Stripe Buffered Bicycle Lanes

Construct Curb Extension

Construct New Sidewalk

PROPOSED SIDEWALK TO BE INSTALLED ON THE WEST SIDE OF SOUTH GRANADOS AVE TO INTERSECTION WITH BROOKDALE PL

# Western Corridor





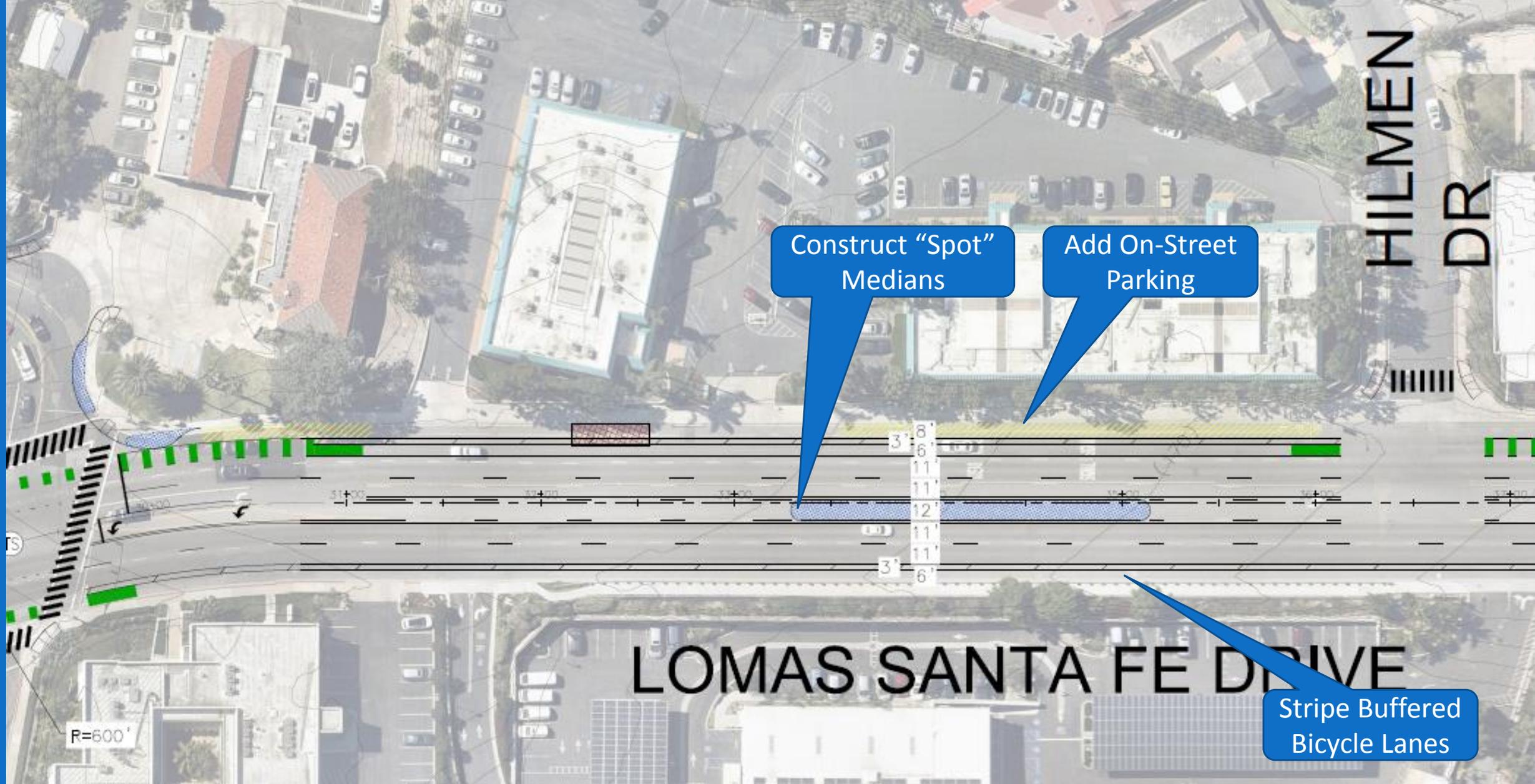
Modify Signal for Split Phase Operations

Construct "Spot" Medians

Construct Curb Extensions

Stripe Buffered Bicycle Lanes

# Western Corridor



Construct "Spot" Medians

Add On-Street Parking

Stripe Buffered Bicycle Lanes

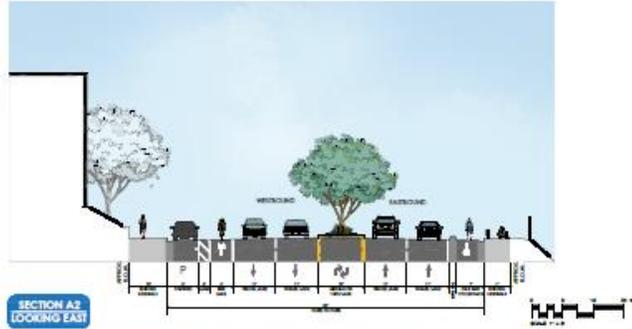
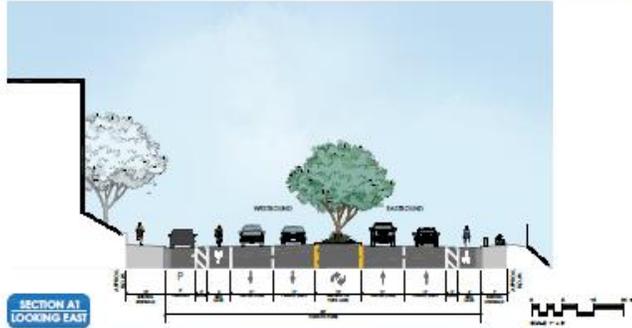
HILMEN DR

LOMAS SANTA FE DRIVE

R=600'

# Western Corridor

# A NARDO AVE TO STEVENS DR LOMAS SANTA FE DRIVE



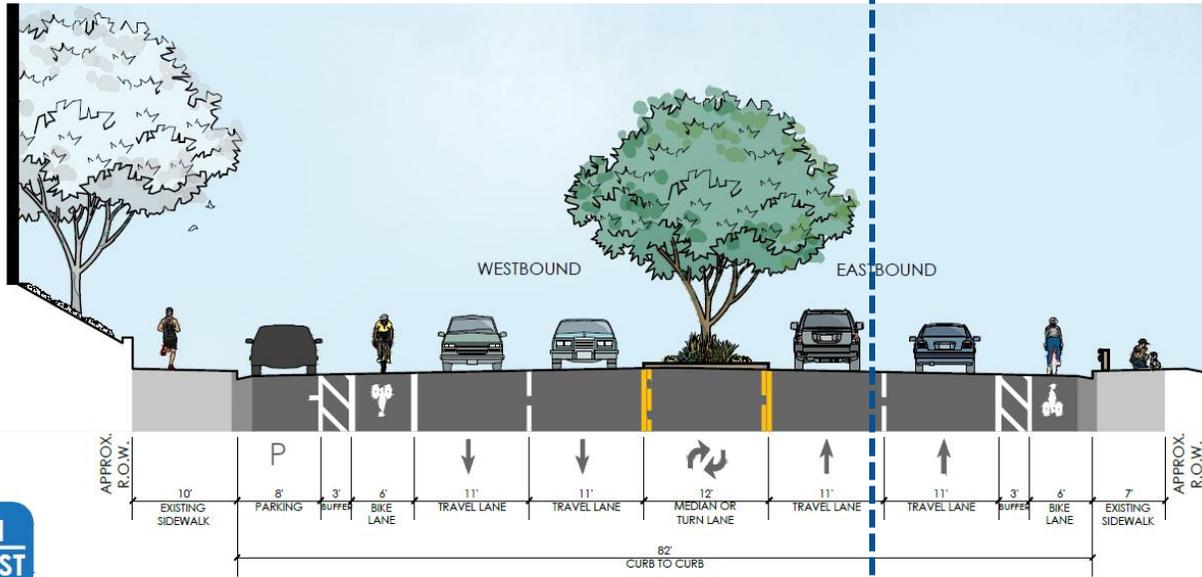
### CONCEPT PLANT SCHEDULE

- 1. TREES**
  - **PLANTING SPECIFICATIONS:**
    - Planting hole: 18" x 18" x 18"
    - Soil: 6" topsoil, 12" compost, 12" topsoil
    - Water: 1" diameter, 1/2" depth
    - Mulch: 2" depth, 100% wood chips
    - Fertilizer: 10-10-10, 1/2" depth
    - Pruning: Regular pruning to maintain shape
    - Irrigation: Drip irrigation system
- 2. SHRUBS**
  - **PLANTING SPECIFICATIONS:**
    - Planting hole: 12" x 12" x 12"
    - Soil: 6" topsoil, 12" compost, 12" topsoil
    - Water: 1/2" diameter, 1/2" depth
    - Mulch: 2" depth, 100% wood chips
    - Fertilizer: 10-10-10, 1/2" depth
    - Pruning: Regular pruning to maintain shape
    - Irrigation: Drip irrigation system
- 3. PERENNIALS**
  - **PLANTING SPECIFICATIONS:**
    - Planting hole: 6" x 6" x 6"
    - Soil: 6" topsoil, 12" compost, 12" topsoil
    - Water: 1/4" diameter, 1/4" depth
    - Mulch: 2" depth, 100% wood chips
    - Fertilizer: 10-10-10, 1/2" depth
    - Pruning: Regular pruning to maintain shape
    - Irrigation: Drip irrigation system

- 4. ANNUALS**
  - **PLANTING SPECIFICATIONS:**
    - Planting hole: 6" x 6" x 6"
    - Soil: 6" topsoil, 12" compost, 12" topsoil
    - Water: 1/4" diameter, 1/4" depth
    - Mulch: 2" depth, 100% wood chips
    - Fertilizer: 10-10-10, 1/2" depth
    - Pruning: Regular pruning to maintain shape
    - Irrigation: Drip irrigation system
- 5. GRASSES**
  - **PLANTING SPECIFICATIONS:**
    - Planting hole: 6" x 6" x 6"
    - Soil: 6" topsoil, 12" compost, 12" topsoil
    - Water: 1/4" diameter, 1/4" depth
    - Mulch: 2" depth, 100% wood chips
    - Fertilizer: 10-10-10, 1/2" depth
    - Pruning: Regular pruning to maintain shape
    - Irrigation: Drip irrigation system



**SECTION A1  
LOOKING EAST**

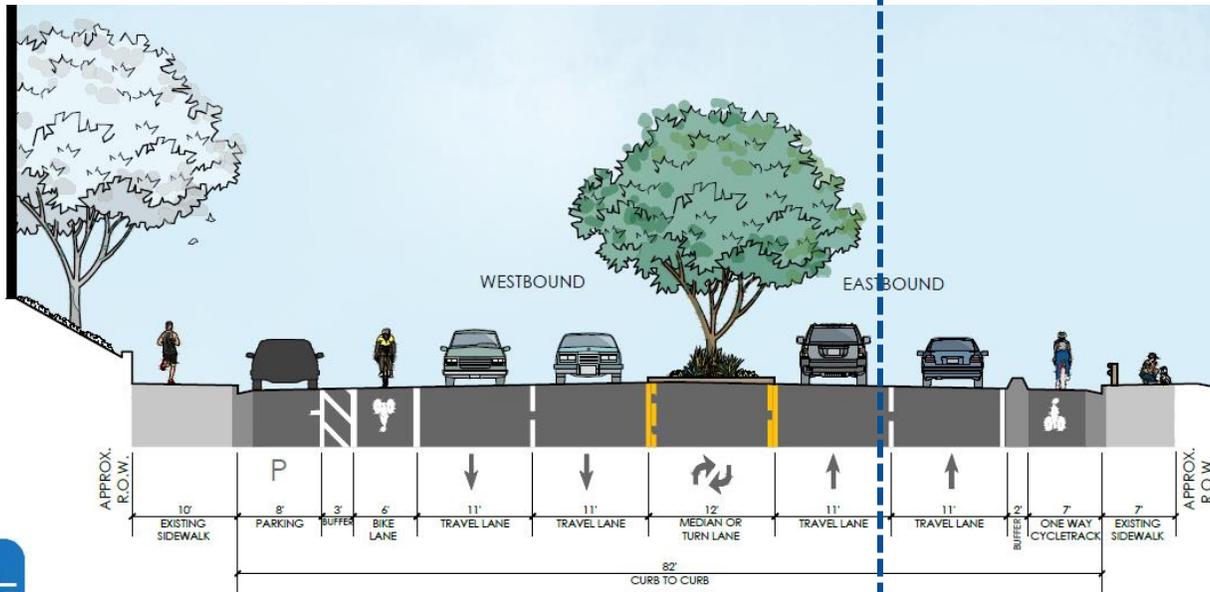


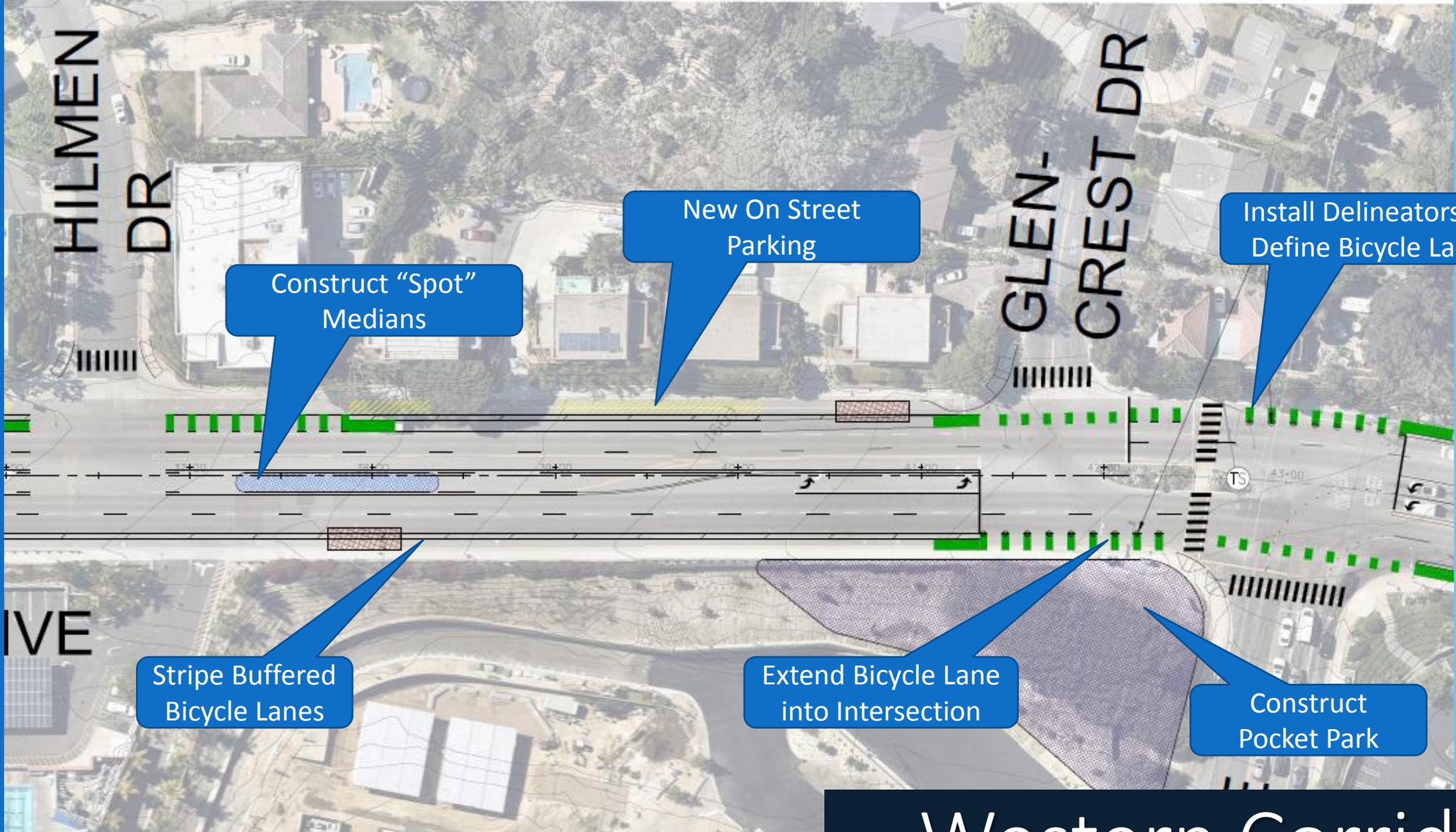
## 2 OPTIONS FOR EASTBOUND BICYCLE LANE

**A1: Buffered with Stripe**

**A2: One-Way Cycle Track with  
Raised Curb**

**SECTION A2  
LOOKING EAST**





Construct "Spot" Medians

New On Street Parking

Install Delineators to Define Bicycle Lane

Stripe Buffered Bicycle Lanes

Extend Bicycle Lane into Intersection

Construct Pocket Park

# Western Corridor

# POCKET PARK AT STEVENS AVENUE LOMAS SANTA FE DRIVE



PARK PLAN



## CONCEPT PLANT SCHEDULE



### FLOWERING/ACCIDENT TREES

- ALICE BARBERAE / TREE ALICE
- ALICE FRONK / BITES ALICE
- CASSIA LEPTOPHYLLA / GOLD MEDALLION TREE
- DRACADINA GRACIO / DRAGON TREE
- ERYTHRINA CRISTA-GALLI / COCKSPUR CORAL
- JACARANDA MANDROSTACHYS / JACARANDA MULTI-TRUNK
- MAGNOLIA GRANDIFLORA / MAGNOLIA 'SOUTHERN BEAUTY' TM / SOUTHERN MAGNOLIA
- TECOMA STANS / YELLOW BELLS
- TRIFANIA TRU / TRIFU TREE
- YUCCA ELEPHANTINUS / SOFT-TIPPED YUCCA



### SMALL TREES

- ADONIS TENUIGOSA / PEPPERMINT TREE
- ARBUTUS UNEDO / STRAWBERRY TREE
- CELEBRIA FRA-PULCHRA / AUSTRALIAN WILLOW
- METRODEROS EXCELSA / NEW ZEALAND CHRISTMAS TREE
- OLEA EUROPAEA / OLIVE MULTI-TRUNK
- X CHEITALPA TASHIENSTENSIS / CHEITALPA



### LARGE TREES

- SPERMATOCOPHYTUM FLAVUM / SWEETSHADE
- LOPHOSTEMON CONFERTUS / BEEBANE BOX
- PODOCARPUS GRACILIOR / FERN FINE
- SPATHODEA CAMPANULATA / AFRICAN TULIP TREE



### ACCENT SHRUBS

- ADONIS ARBOREUM 'ATROPURPUREUM' / TREE ADONIS
- ADONIS HAWORTHII / FRONHEIL
- AGAVE YEMERENIANA / YOCOTOPUS AGAVE
- AGAVE X 'BLUE GLOW' / BLUE GLOW AGAVE
- ALICE ARBORESCENS / TREE ALICE
- ALICE STREITA / CORAL ALICE
- ANGIOSANTHOS X 'BIG RED' / BIG RED KANGAROO PAW
- ELPHEDIA 'TRIC-ALLI STICKS ON TREE' / PENCIL TREE
- MELLENBERGIA CAPILLARE / PINK MILLET
- STRELTZIA REGINAE / BIRD OF PARADISE



### SMALL SHRUBS

- CORALIA MANDROCARPA / NATAL PLUM
- DIANELIA CONGESTA / BEACH FLAX LILY
- HEMEROCALLIS 'BERRY' / YELLOW DAYLILY
- IMBICHAENA FERRIS / STALICE
- LOMANDERA LONGIFOLIA 'BREEZE' / DWARF HAAT RUSH
- PHORMIUM TENAX 'YELLOW WAVE' / NEW ZEALAND FLAX
- PHORMIUM 'DUST' / NEW ZEALAND FLAX
- SANTOLINA CHAMAECYPARISSIS / LAVENDER COTTON



### MEDIUM SHRUBS

- AGAVE AMERICANA / CENTURY PLANT
- AGAVE ATTENUATA / AGAVE
- CALLISTEMON VIMINALIS 'LITTLE JOHN' / DWARF WEEPING SCOTLEBRUSH
- CRONCHIOPHYTUM TECTORIUM / CARE RUSH
- CETUS X 'FURFURUS' / DICHEID ROCKROSE
- CORYLINE AUSTRALIS 'RED STAR' / RED STAR DRACADINA
- DASYLIRION WHEELERI / GREY DESERT SPOON
- ECHINUM CACTICANS / FROE OF MADRIDIA
- LEUCADENDRON UNIFOLIUM
- MELLENBERGIA REGINAE / DISE GRASS
- PHORMIUM 'BLACK ADOBE' / NEW ZEALAND FLAX
- PUMBAAGO AURICULATA / BLUE PUMBAAGO
- SALVIA CHAMAECRYOIDES / MEXICAN BLUE SAGE
- SALVIA CLEVELANDI / CLEVELAND SAGE
- SALVIA LUDICANTIA / MEXICAN BUSH SAGE
- SALVIA MEDICANA / SAGE
- ZAUSCHNERIA CALIFORNICA / CALIFORNIA FUCHSIA



### GROUNDCOVER

- ARCTOSTAPHYLOS UVA-URSI / ENKENNICK
- CSARONIS X 'CIBERNALIS' / CIBERNALIS ORANGEWOOD
- FESTUCA IDAHOENSIS 'SEKYOBU BLUE' / SEKYOBU BLUE FESCUE
- LANTANA X 'CHAPEL HILL YELLOW' / CHAPEL HILL YELLOW LANTANA
- HYPOCHOERIS PARVIFOLIA / ITALIAN HYPOCHOERIS
- SENECIO MANDRALISCAE 'BLUE CHALK STICKS' / SENECIO



CASSIA LEPTOPHYLLA  
GOLD MEDALLION TREE



MAGNOLIA  
GRANDIFLORA  
MAGNOLIA 'SOUTHERN BEAUTY'



X CHEITALPA  
TASHIENSTENSIS  
CHEITALPA



ANGIOSANTHOS X 'BIG RED'  
BIG RED KANGAROO PAW



PHORMIUM TENAX  
'YELLOW WAVE'  
NEW ZEALAND FLAX



ARCTOSTAPHYLOS  
UVA-URSI  
ENKENNICK



FESTUCA IDAHOENSIS  
'SEKYOBU BLUE'  
SEKYOBU BLUE FESCUE



SENECIO MANDRALISCAE  
'BLUE CHALK STICKS'  
SENECIO

Completed Sidewalk Project

GLUE DOWN CHANNELIZERS (TYP)

CALTRANS IMPROVEMENTS TO BE COMPLETED SUMMER 2018

Caltrans Improvements

Stripe Buffered Bicycle Lanes

OLANA  
LL DR

6'  
11'  
11'  
11'  
10'  
12'  
11'  
6'

# Western Corridor

Caltrans Improvements

Construct Retaining Wall

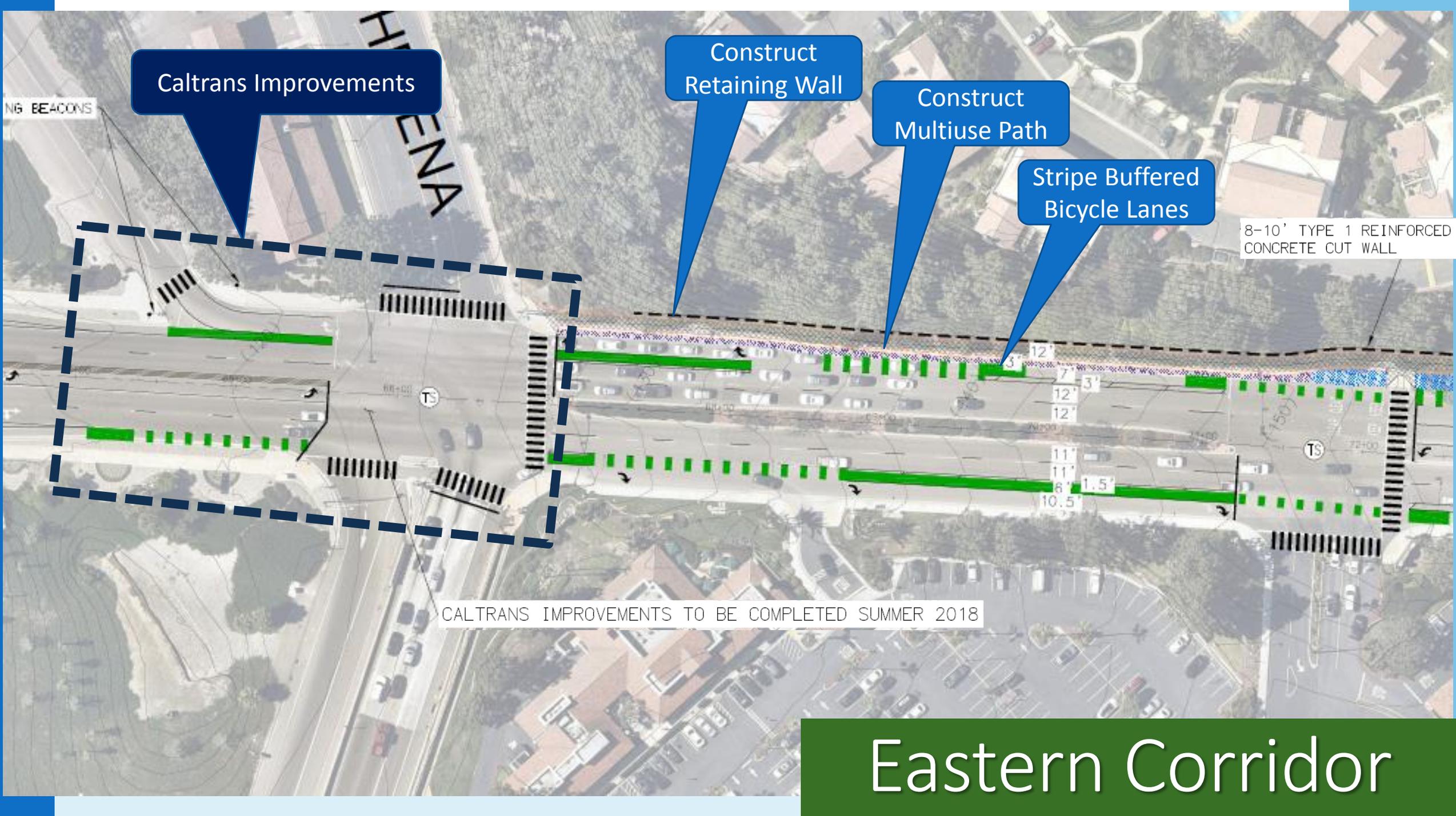
Construct Multiuse Path

Stripe Buffered Bicycle Lanes

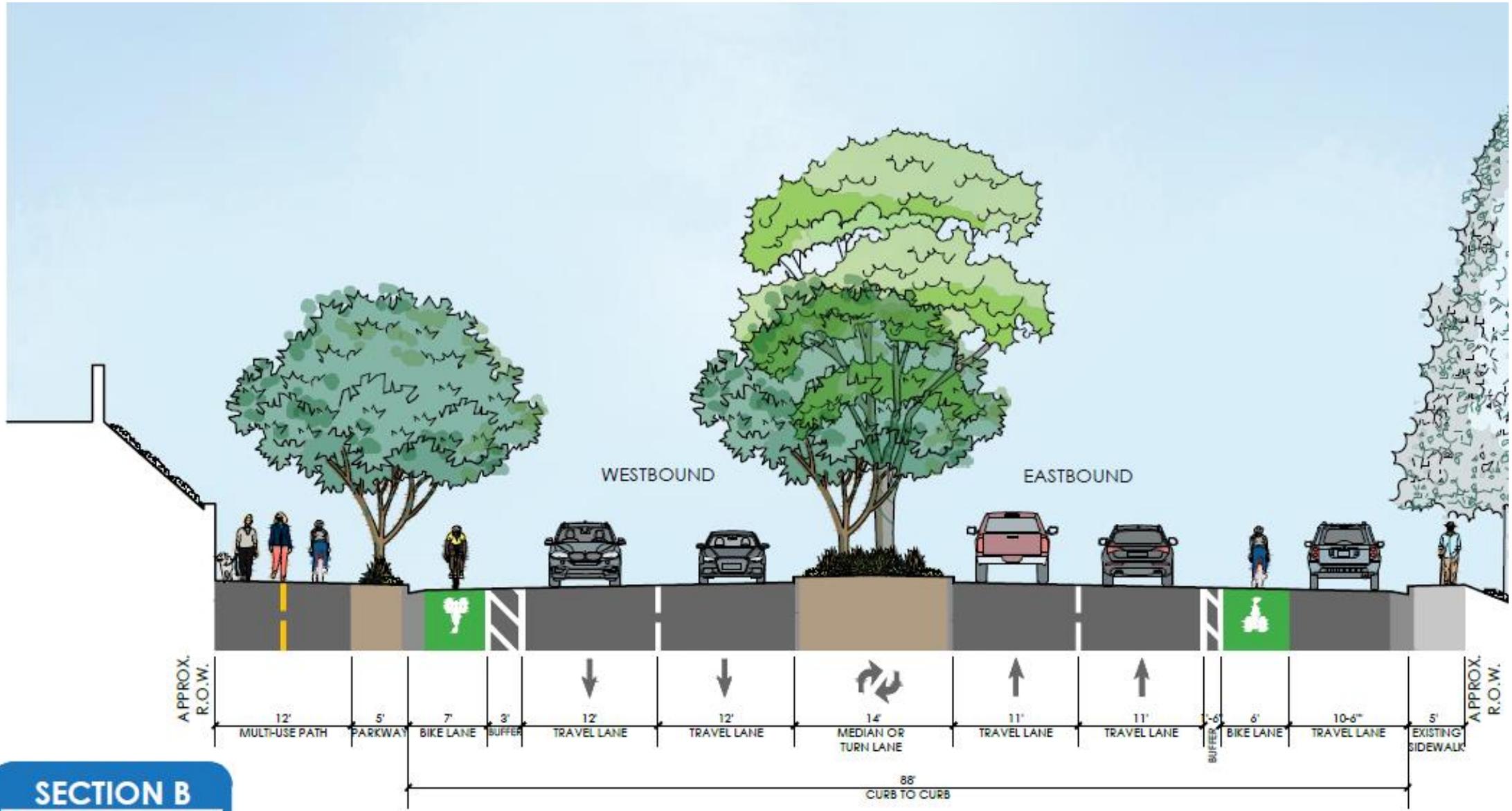
8-10' TYPE 1 REINFORCED CONCRETE CUT WALL

CALTRANS IMPROVEMENTS TO BE COMPLETED SUMMER 2018

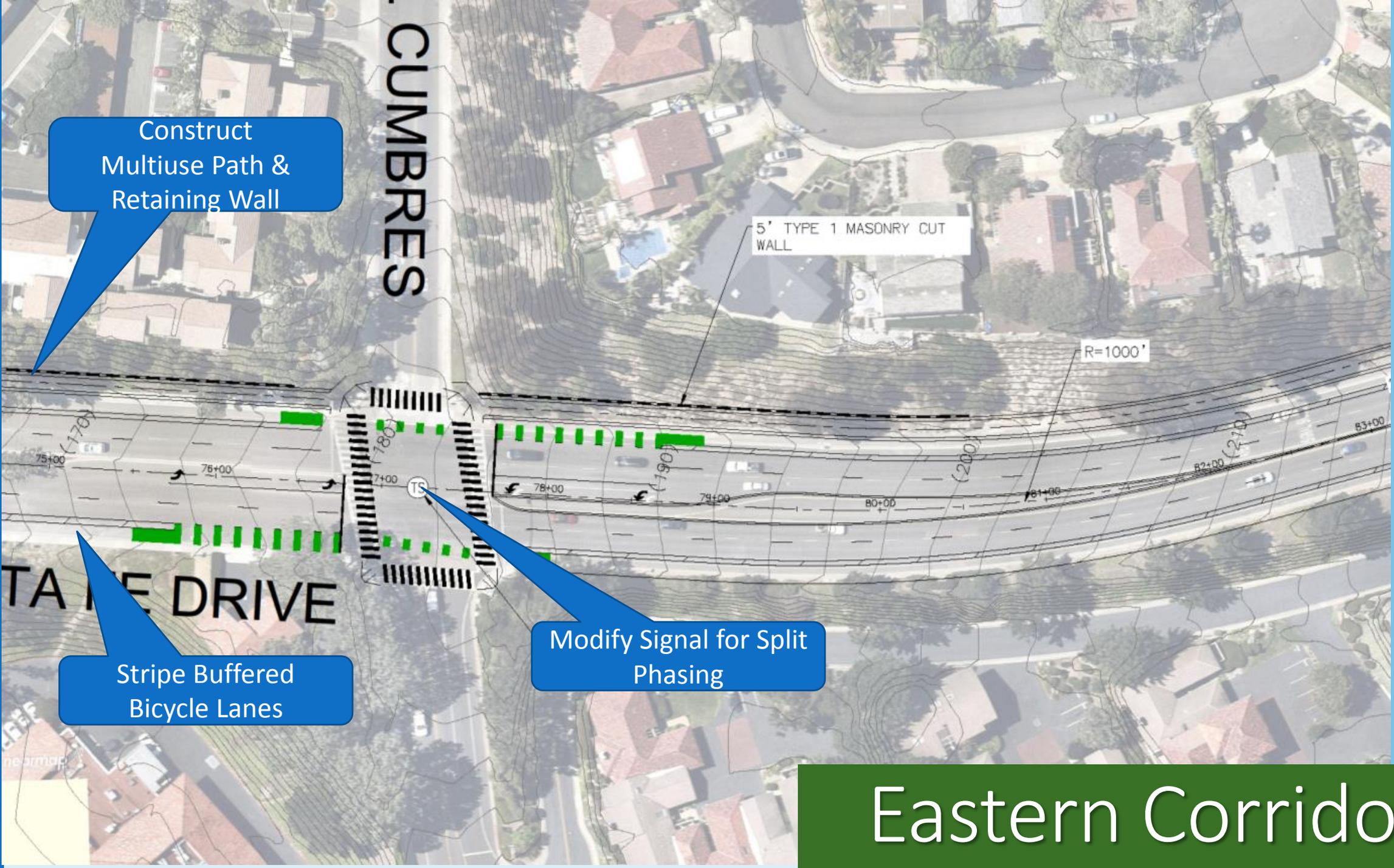
# Eastern Corridor







**SECTION B**  
**LOOKING EAST**



Construct Multiuse Path & Retaining Wall

5' TYPE 1 MASONRY CUT WALL

R=1000'

TAMME DRIVE

CUMBRES

TS

Stripe Buffered Bicycle Lanes

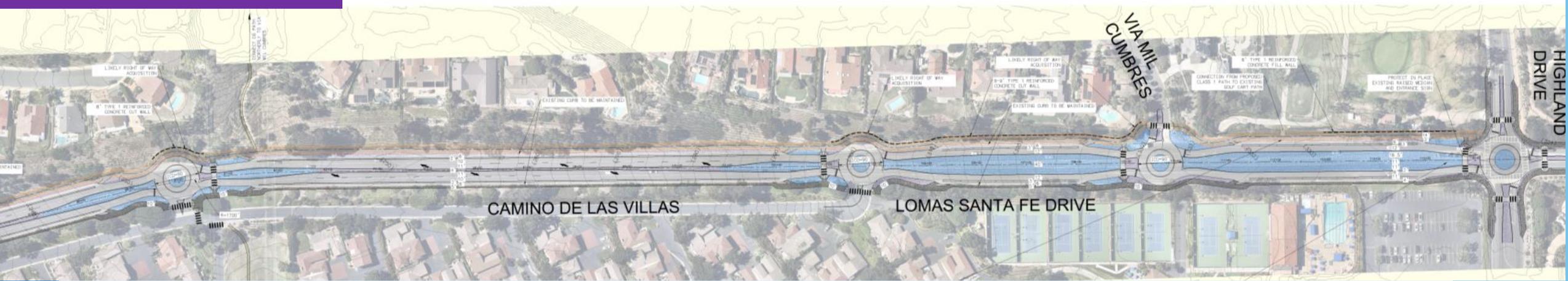
Modify Signal for Split Phasing

# Eastern Corridor

# Striping Option

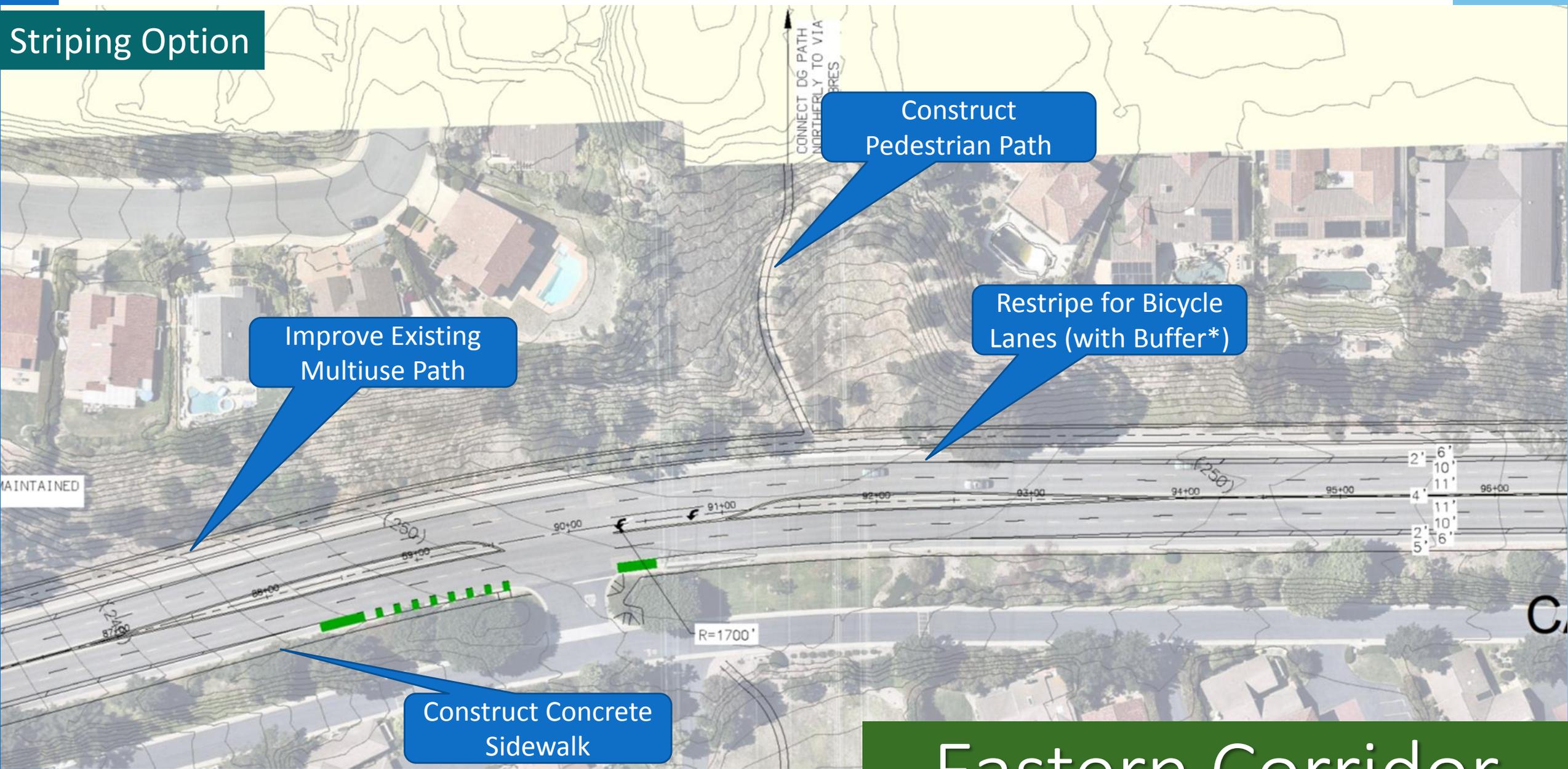


# Roundabout Option



# Eastern Corridor

# Striping Option



Construct Pedestrian Path

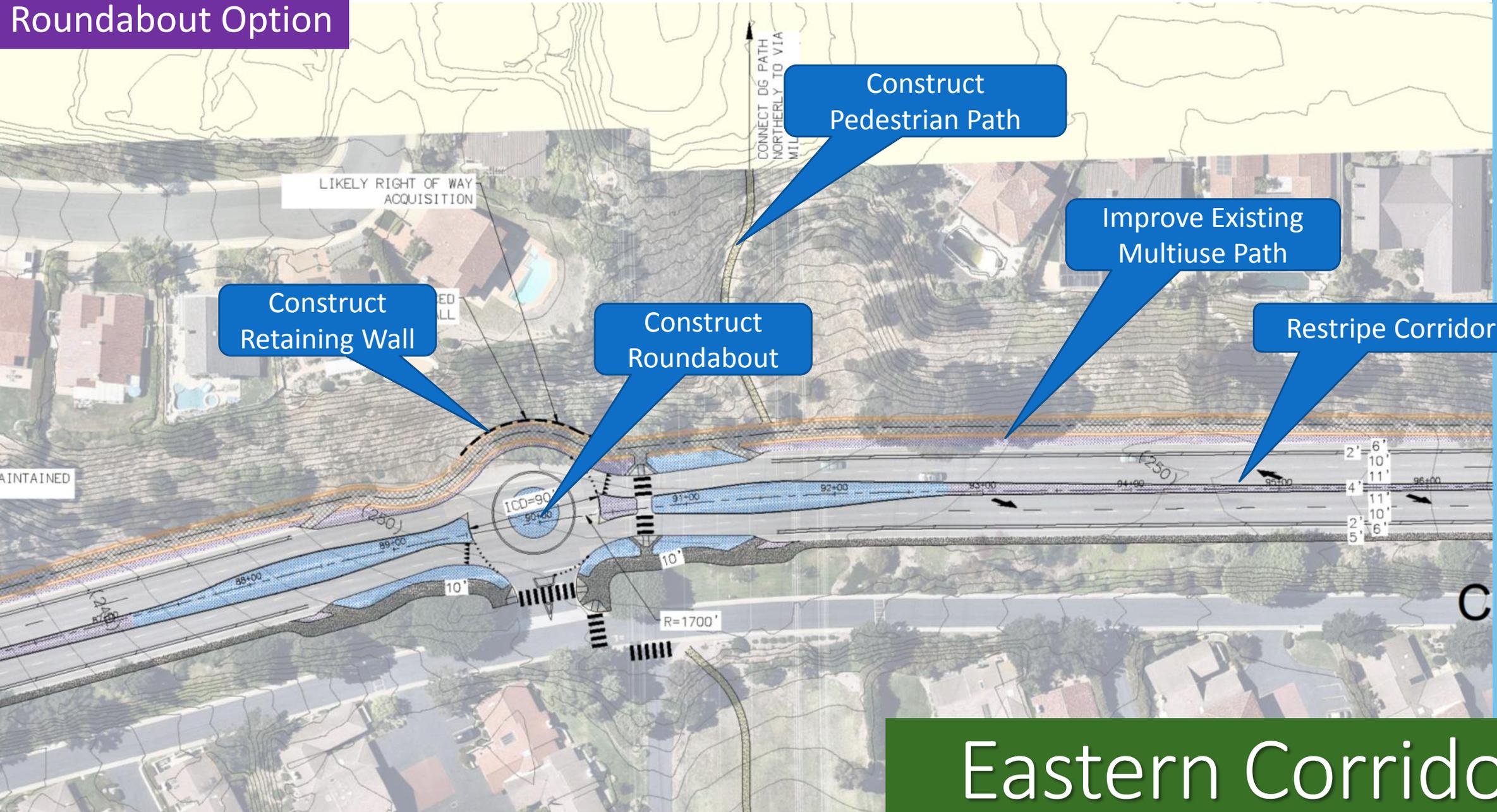
Restripe for Bicycle Lanes (with Buffer\*)

Improve Existing Multiuse Path

Construct Concrete Sidewalk

# Eastern Corridor

# Roundabout Option



Construct Retaining Wall

Construct Roundabout

Construct Pedestrian Path

Improve Existing Multiuse Path

Restripe Corridor

# Eastern Corridor



STREET VIEW LOOKING EAST (VIA GOOGLE MAPS)



PLAN VIEW

Roundabout Configuration	Typical Design Vehicle	Common Inscribed Circle Diameter Range*	
Mini-Roundabout	SU-30 (SU-9)	45 to 90 ft	(14 to 27 m)
<b>Single-Lane Roundabout</b>	<b>B-40 (B-12)</b>	<b>90 to 150 ft</b>	<b>(27 to 46 m)</b>
	WB-50 (WB-15)	105 to 150 ft	(32 to 46 m)
	WB-67 (WB-20)	130 to 180 ft	(40 to 55 m)
Multilane Roundabout (2 lanes)	WB-50 (WB-15)	150 to 220 ft	(46 to 67 m)
	WB-67 (WB-20)	165 to 220 ft	(50 to 67 m)
Multilane Roundabout (3 lanes)	WB-50 (WB-15)	200 to 250 ft	(61 to 76 m)
	WB-67 (WB-20)	220 to 300 ft	(67 to 91 m)

\* Assumes 90° angles between entries and no more than four legs. List of possible design vehicles is not all-inclusive.

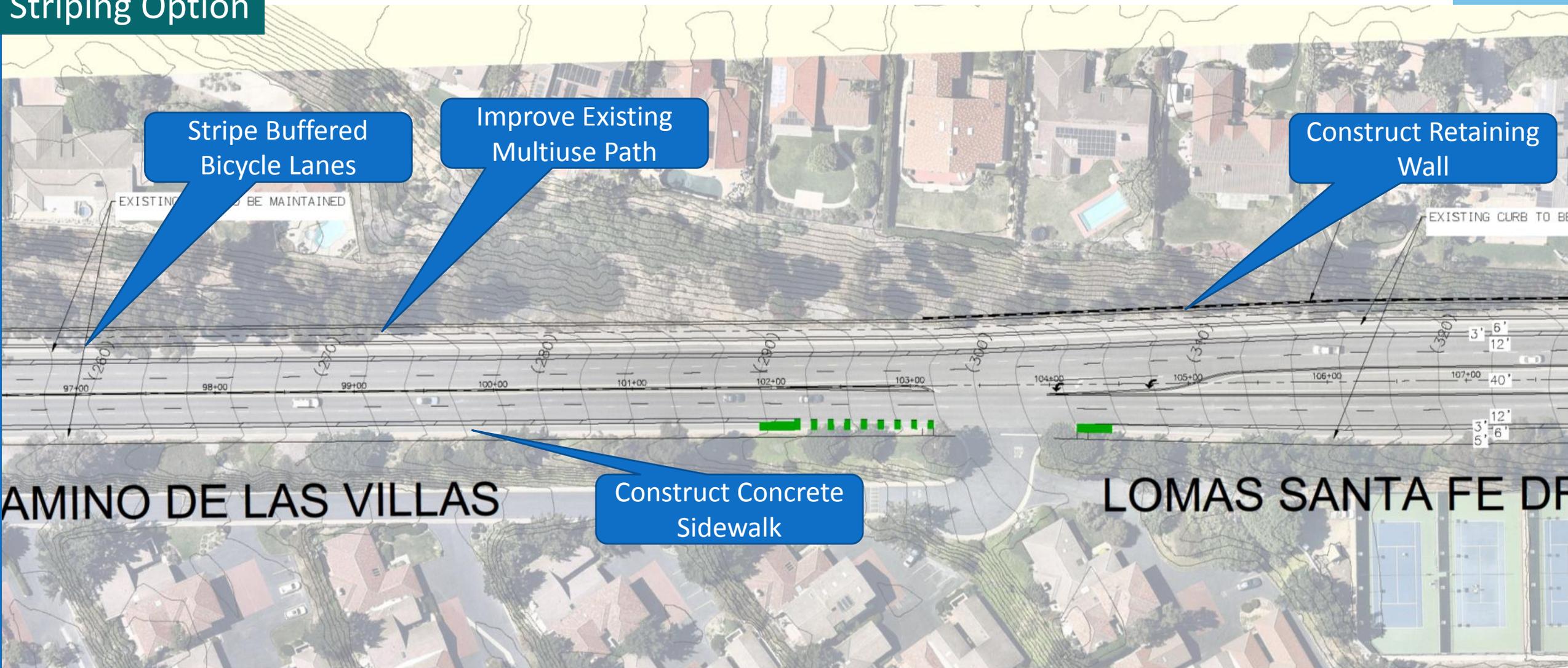
EXHIBIT 6-9, TYPICAL INSCRIBED CIRCLE DIAMETER RANGES ( FROM NCHRP REPORT 672)

EXISTING ROUNDABOUT  
SANTA FE DR & DEVONSHIRE DR  
ENCINITAS, CA

**Michael Baker**  
**INTERNATIONAL**

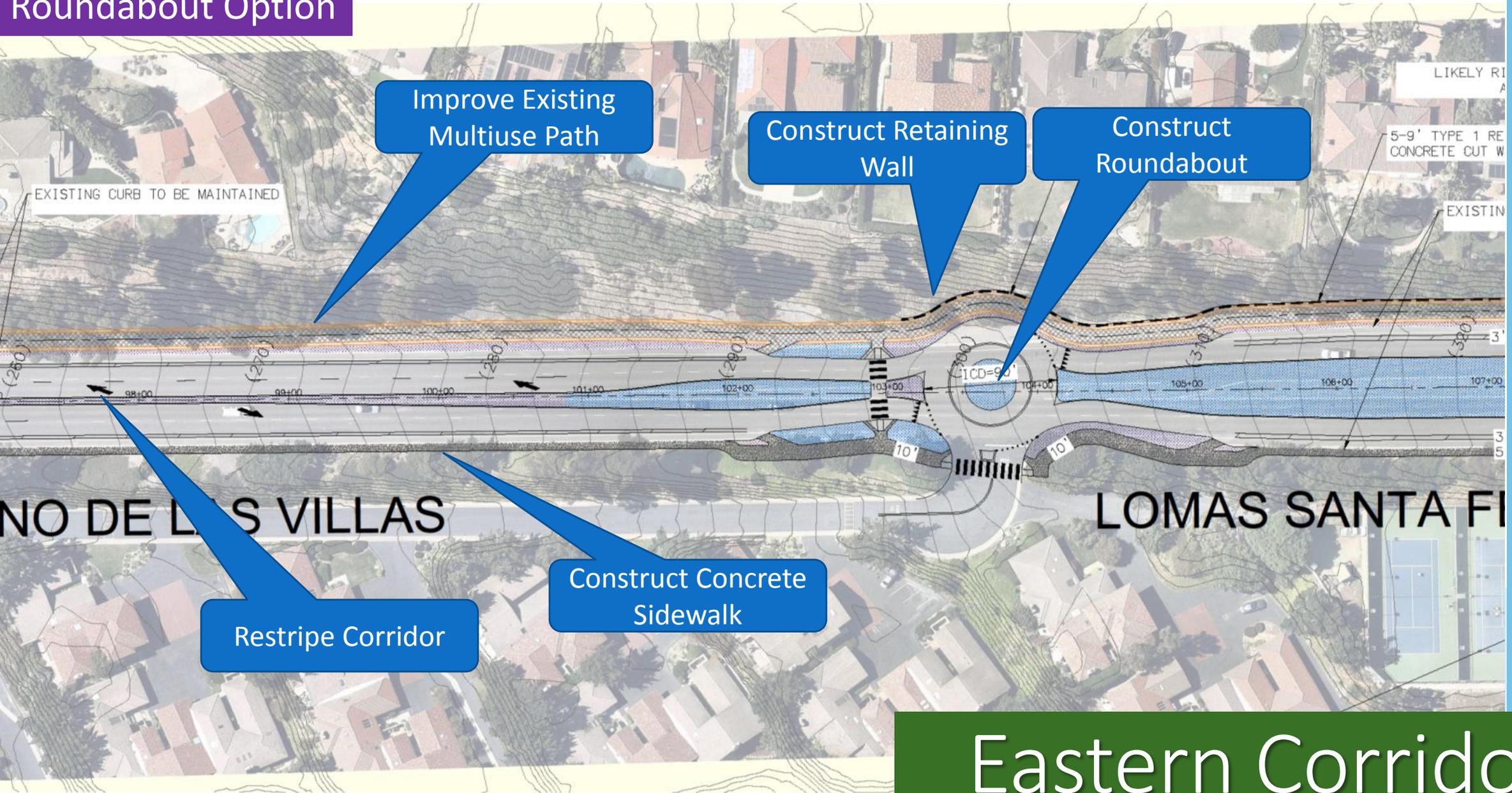
5050 Avenida Encinas  
Suite 260  
Carlsbad, CA 92008  
Phone: (760) 476-9193  
MBAKERINTL.COM

# Striping Option



# Eastern Corridor

# Roundabout Option



Improve Existing Multiuse Path

Construct Retaining Wall

Construct Roundabout

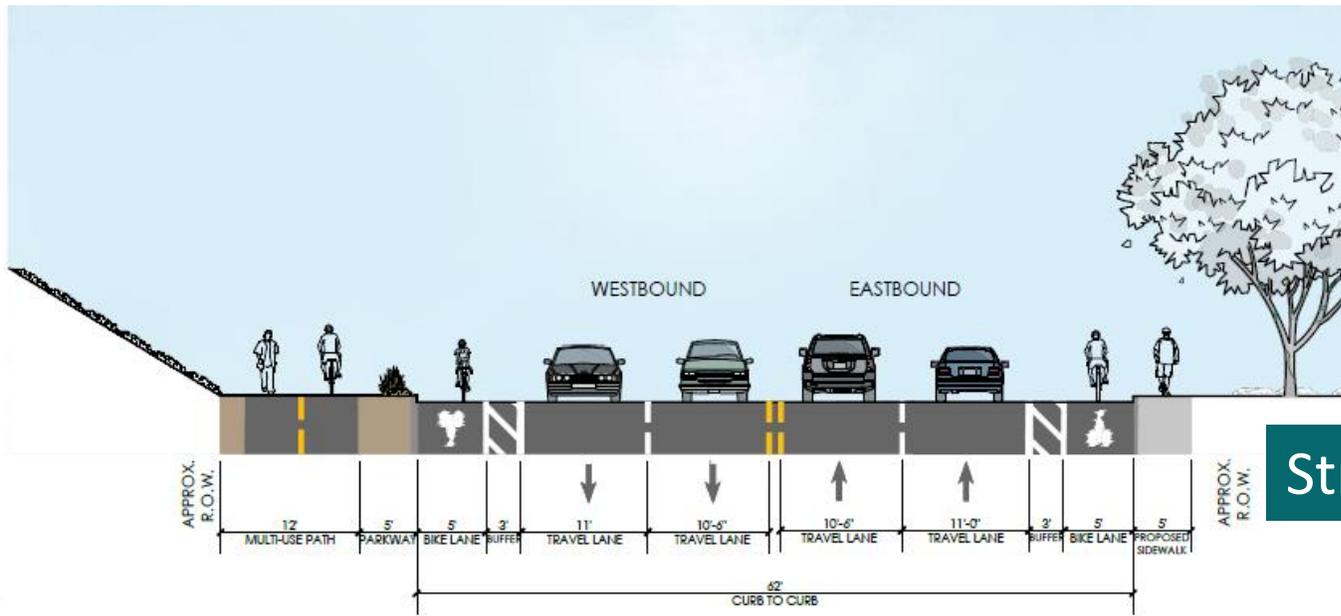
Restripe Corridor

Construct Concrete Sidewalk

# Eastern Corridor

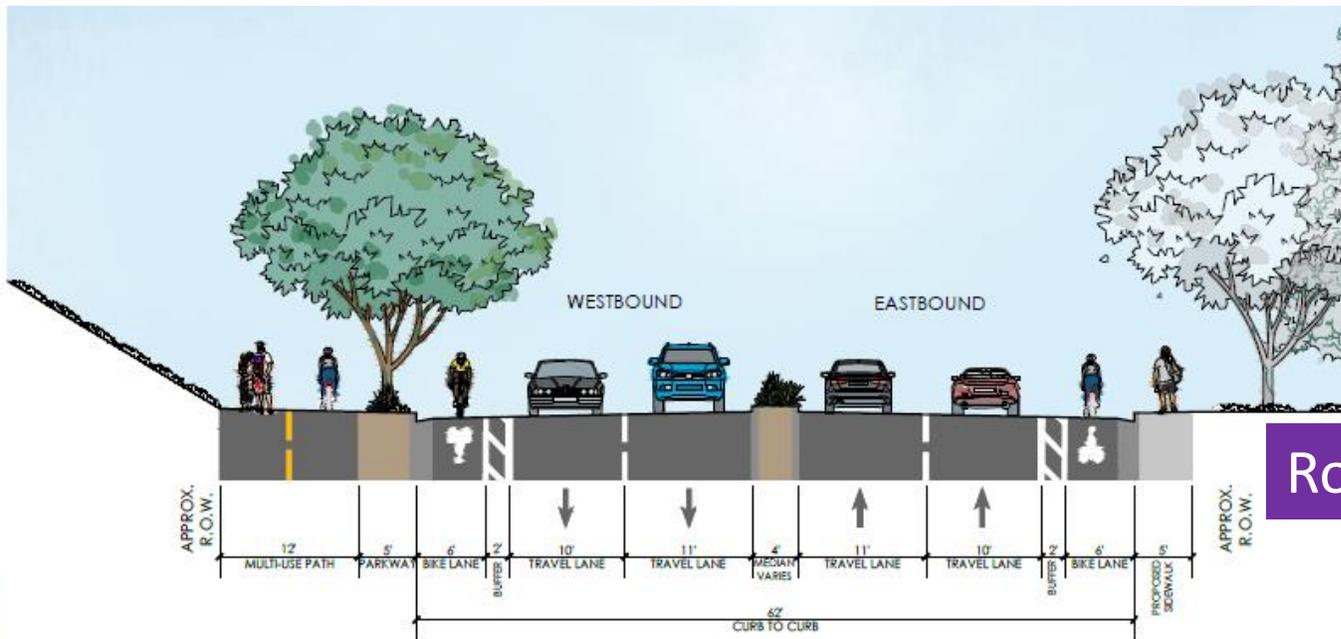


**SECTION C  
LOOKING EAST**



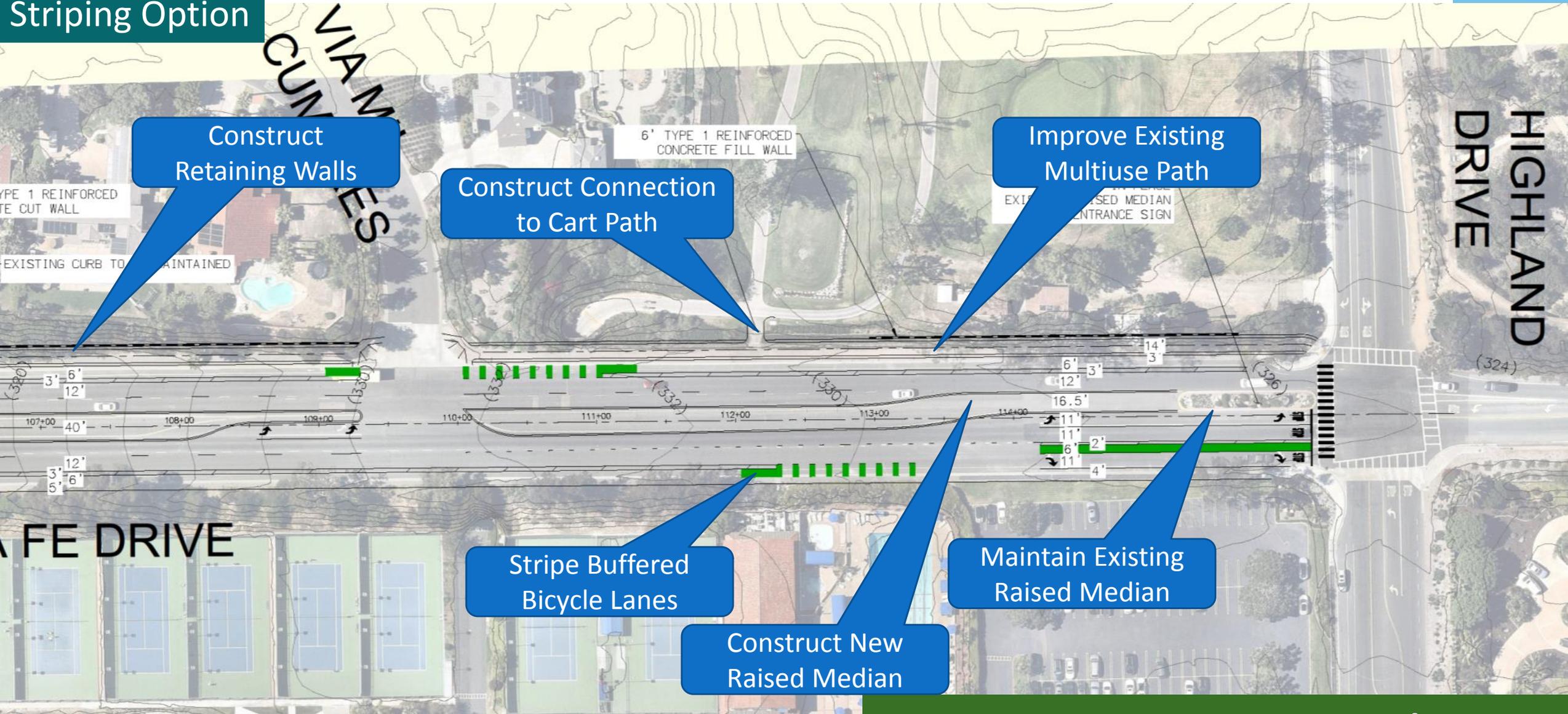
**Striping Option**

**SECTION C  
LOOKING EAST**



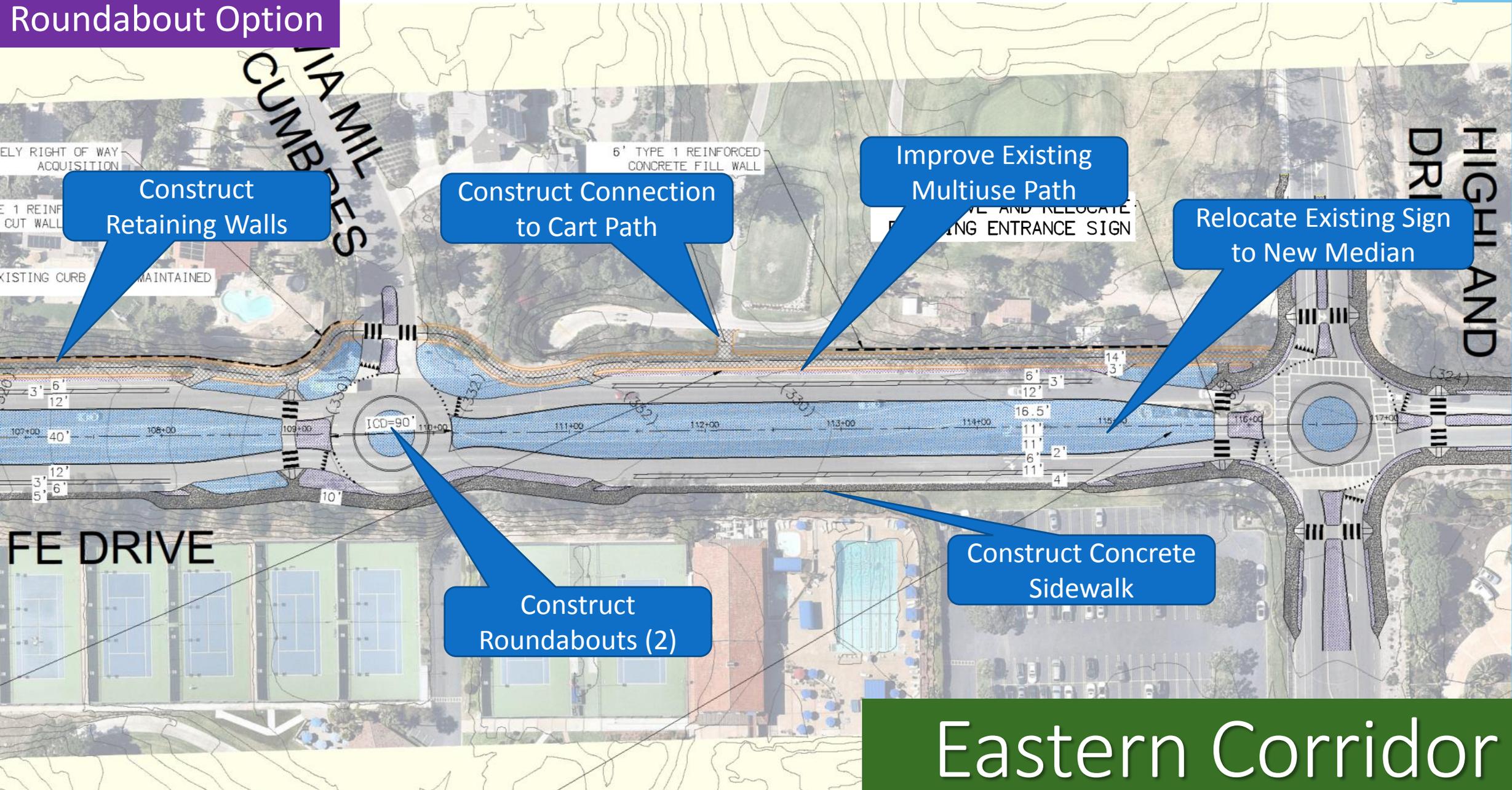
**Roundabout Option**

# Striping Option



# Eastern Corridor

# Roundabout Option



Construct Retaining Walls

Construct Connection to Cart Path

Improve Existing Multiuse Path

Relocate Existing Sign to New Median

Construct Roundabouts (2)

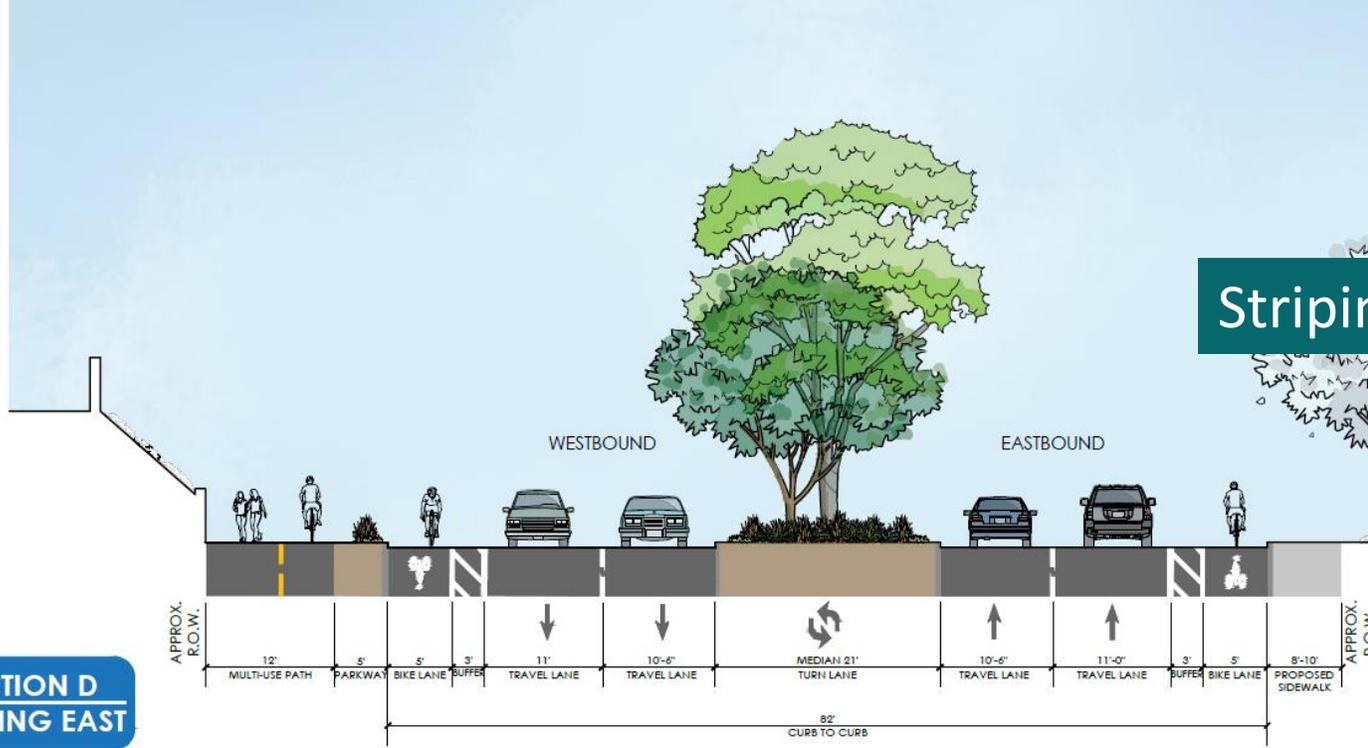
Construct Concrete Sidewalk

# Eastern Corridor



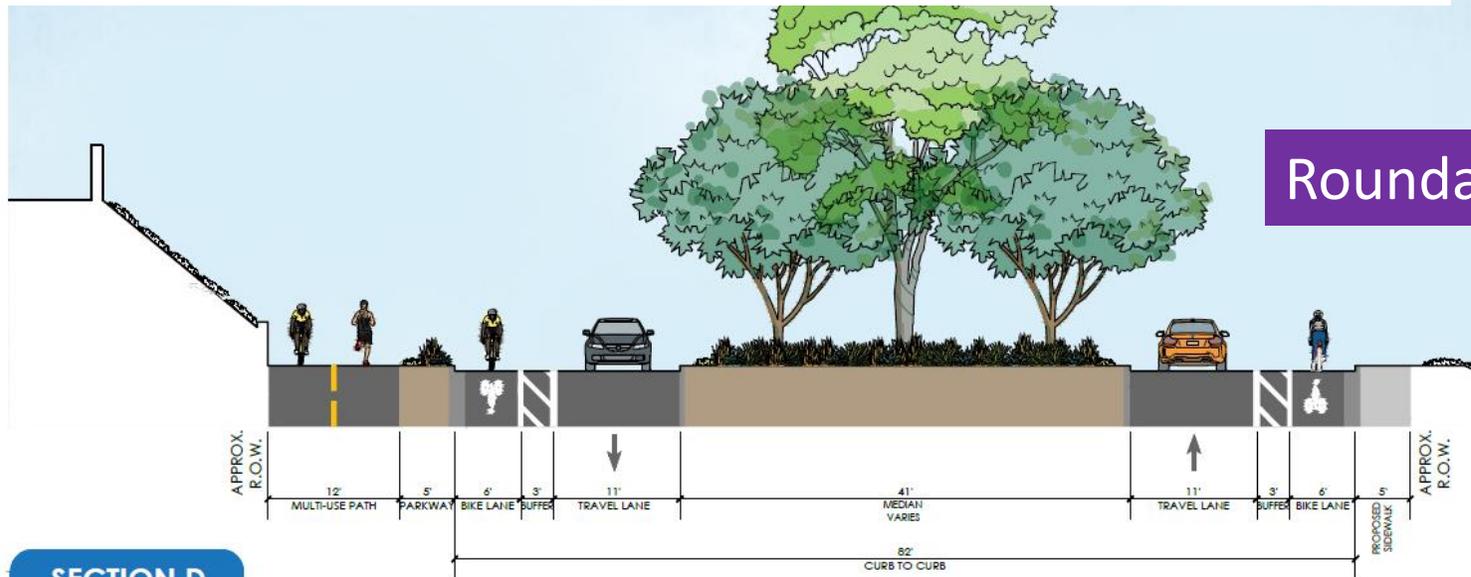
# Striping Option

## SECTION D LOOKING EAST



# Roundabout Option

## SECTION D LOOKING EAST



# Streetscape & Themes

## HIGHWAY 1 TO NARDO AVENUE



PARC VUE BENCH  
LANDSCAPE FORMS



BUS STOP  
CUSTOM

## NARDO AVENUE TO SANTA HELENA



MLB 1400 SERIES  
MAGLIN



SHADE SHELTER

## SANTA HELENA TO HIGHLAND DRIVE



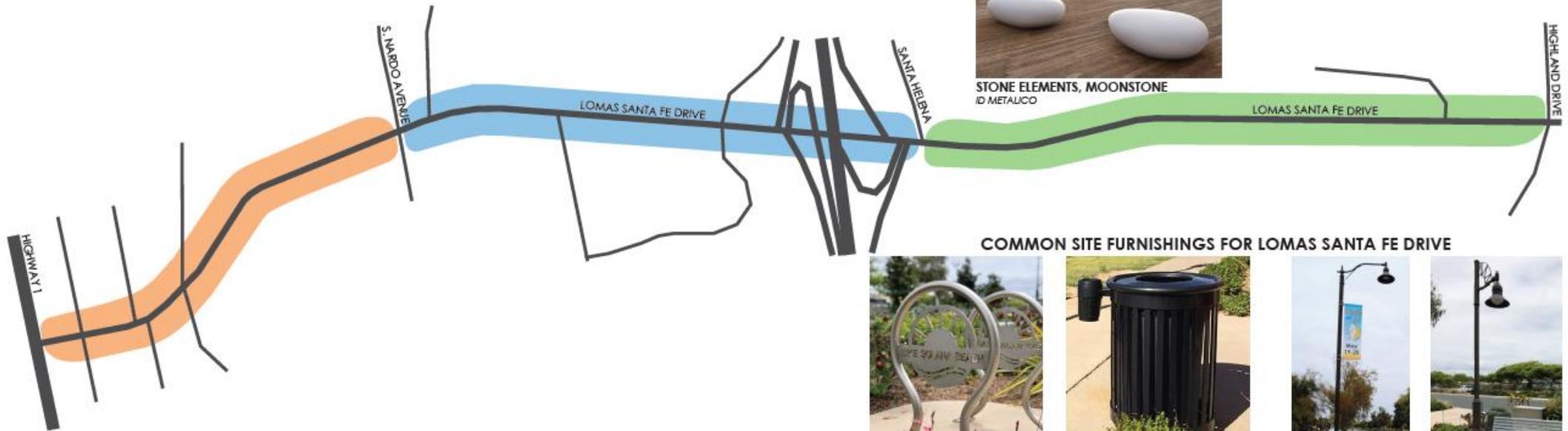
FBF-50  
VICTOR STANLEY



SHADE SHELTER



STONE ELEMENTS, MOONSTONE  
ID METALICO



### COMMON SITE FURNISHINGS FOR LOMAS SANTA FE DRIVE



BIKE RACK  
CUSTOM



MLWR250-32 SERIES  
MAGLIN

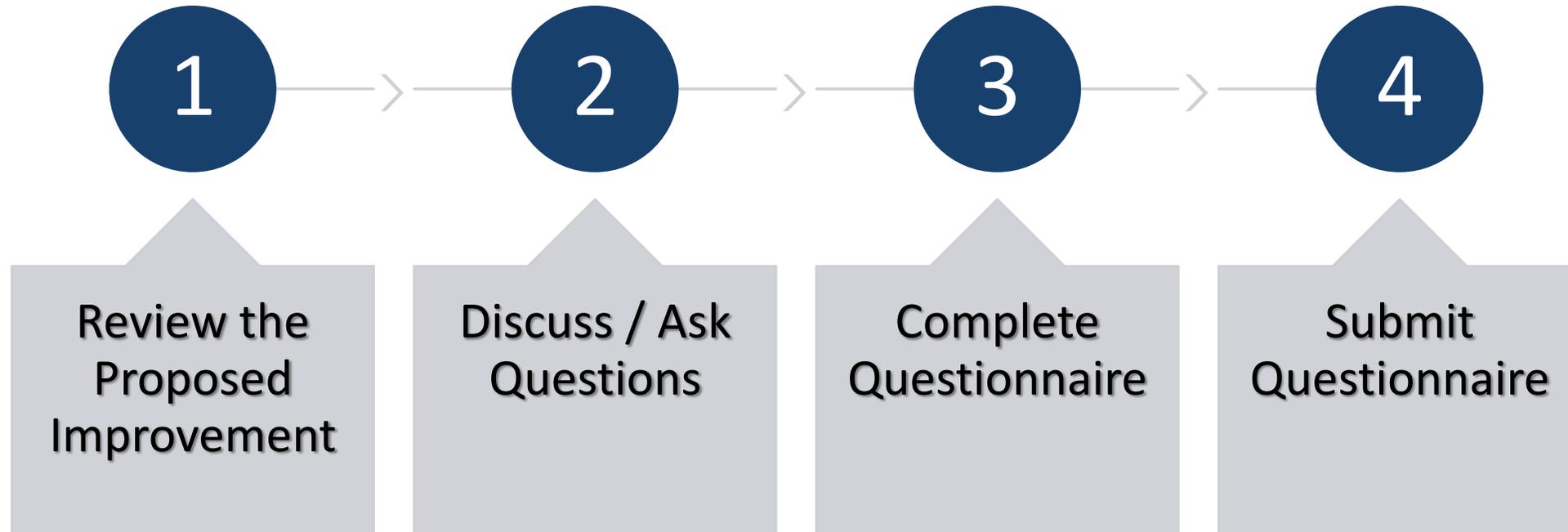


STREET LIGHT



PEDESTRIAN LIGHT

# Share Your Thoughts On Improvements



THANK YOU FOR  
PARTICIPATING!