

VENTURA COUNTY BICYCLE WAYFINDING PLAN



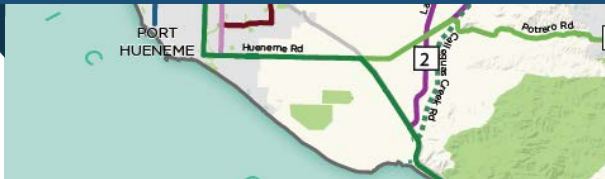
VCTC TTAC Meeting #2
February 16, 2017



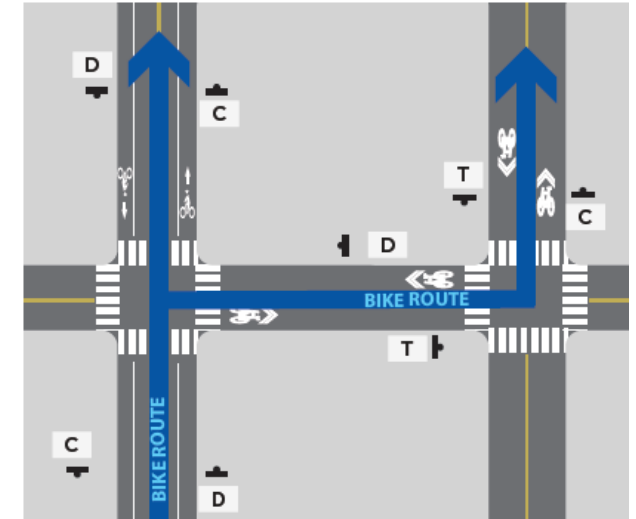
AGENDA



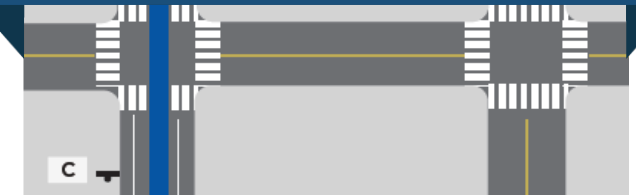
ROUTE SELECTION & PRIORITIZATION



SIGN DESIGN



SIGN IMPLEMENTATION



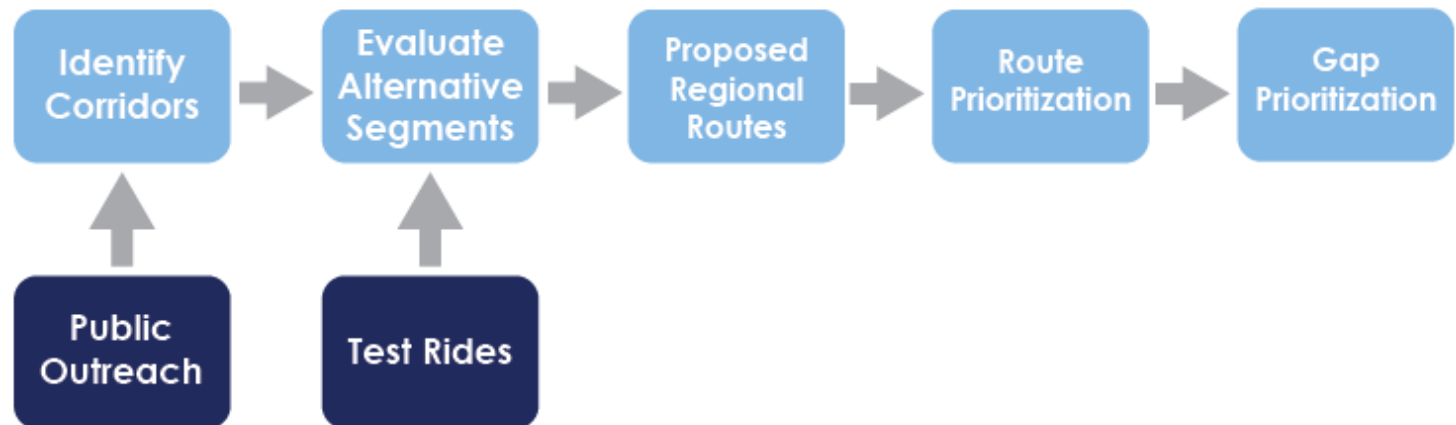
ROUTE SELECTION & PRIORITIZATION



Wayfinding Route Selection Process

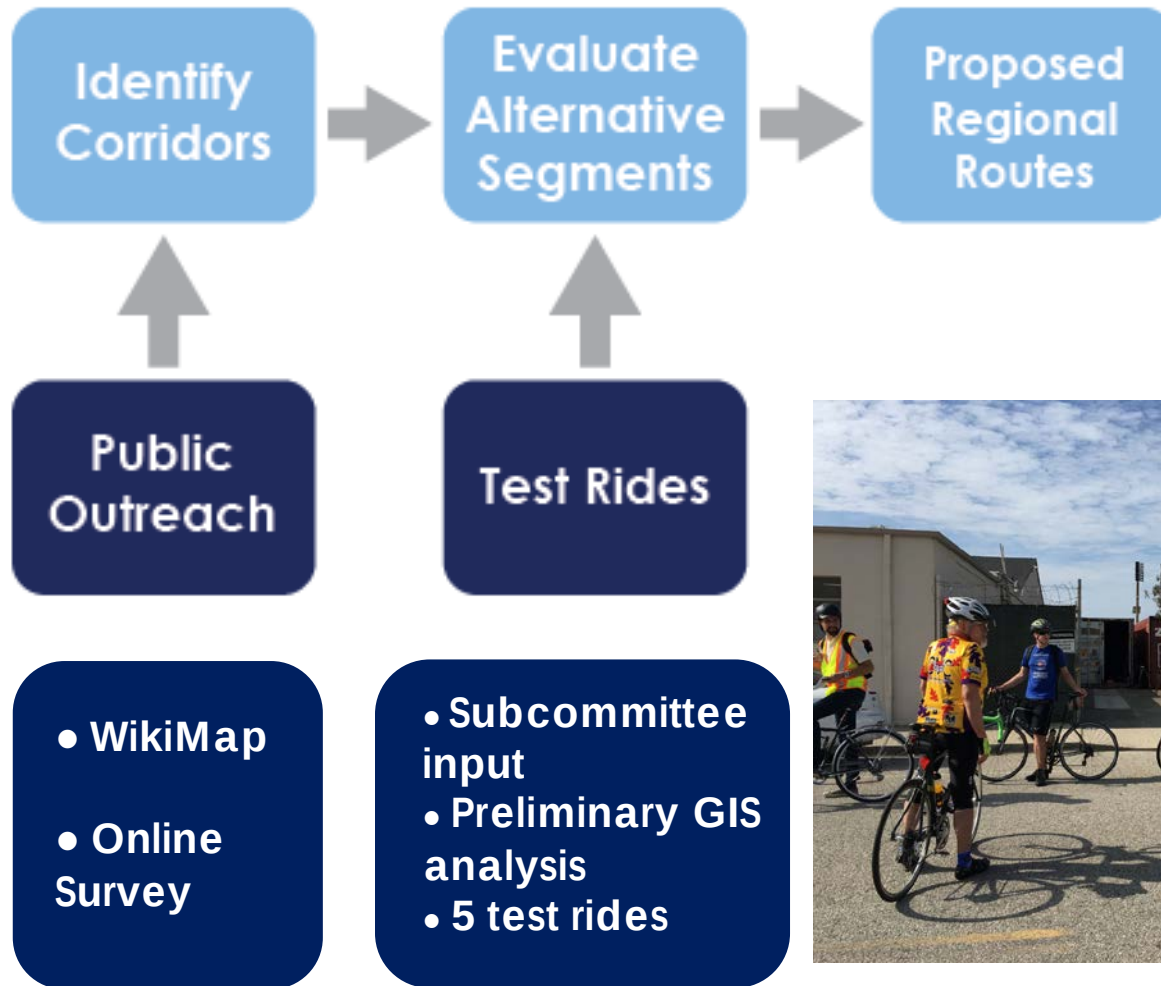
Evaluation Criteria and Prioritization Results

Gap Prioritization



HOW WERE ROUTES SELECTED?

ROUTE SELECTION PROCESS



WIKI MAP

Share your knowledge and preferences for biking in Ventura County. You can interact with the map in a number of ways: **1.)** Draw a new route **2.)** Add destinations you would like to ride to or add comments **3.)** Comment on other routes and destinations that have been added to the map, **4.)** Upload GPS data of your recommended bicycling routes.

Sponsored By: 

Prepared By: 

1.) Click on "Routes" to create a new route

2.) Click on "Points" to:

- Comment on a route
- Recommend a destination

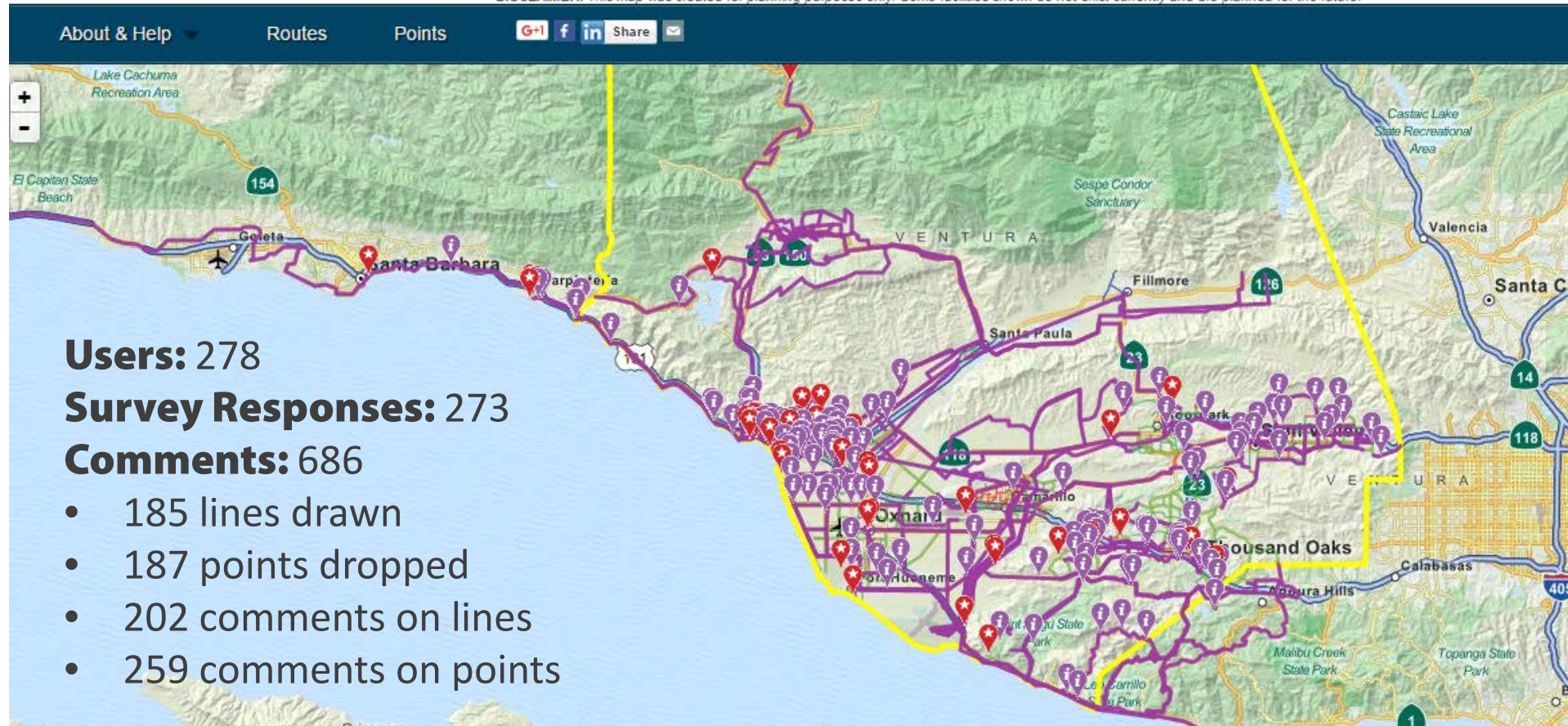
3.) Comment on new routes that have been added to the map (agree or disagree)

4.) If you track your bike rides with GPS, upload your recommendations! From the "About&Help" drop down menu click on "Upload." Your data will be sent to the system administrator, please allow five business days for your routes to post.

Existing Bikeways

- Bike Paths/Trails
- Bike Lanes
- Signed Bike Routes

DISCLAIMER: This map was created for planning purposes only. Some facilities shown do not exist currently and are planned for the future.



WHO RESPONDED?



ROUTE SELECTION

PROPOSED ROUTES

17

Regional Routes

411

Miles

PROPOSED REGIONAL WAYFINDING ROUTES

- 1 Arroyo Simi - Calleguas Creek Greenway
- 2 Camarillo to Coastal Route
- 3 Camarillo to Thousand Oaks
- 4 Coast Route
- 5 Coast Route to Westlake Village
- 6 Fillmore to Thousand Oaks
- 7 Ojai Loop (Ventura / Santa Paula / Ojai)
- 8 Oxnard to Simi Valley
- 9 Santa Barbara to Ojai
- 10 Santa Paula Branch Line Trail
- 11 Santa Paula to County Line
- 12 Simi Valley to Thousand Oaks
- 13 Thousand Oaks to Agoura Hills
- 14 Ventura / Oxnard / Port Hueneme
- 15 Ventura to Port Hueneme (Rose Ave)
- 16 Ventura to Port Hueneme (Victoria Ave)
- 17 Ventura to Simi Valley

Adjacent County Bicycle Facilities

Existing Planned Train Station

0 2 4 6 8 Miles

alta
PLANNING + DESIGN



HOW WAS EVALUATION CRITERIA DEVELOPED?

PROCESS

- Based on best practices and readily available data
- Aligned with project goals
- Gathered input from subcommittee meeting #2
- Preliminary criteria sent out to subcommittee members for review
- Refined criteria and scoring with VCTC staff

EVALUATION CRITERIA

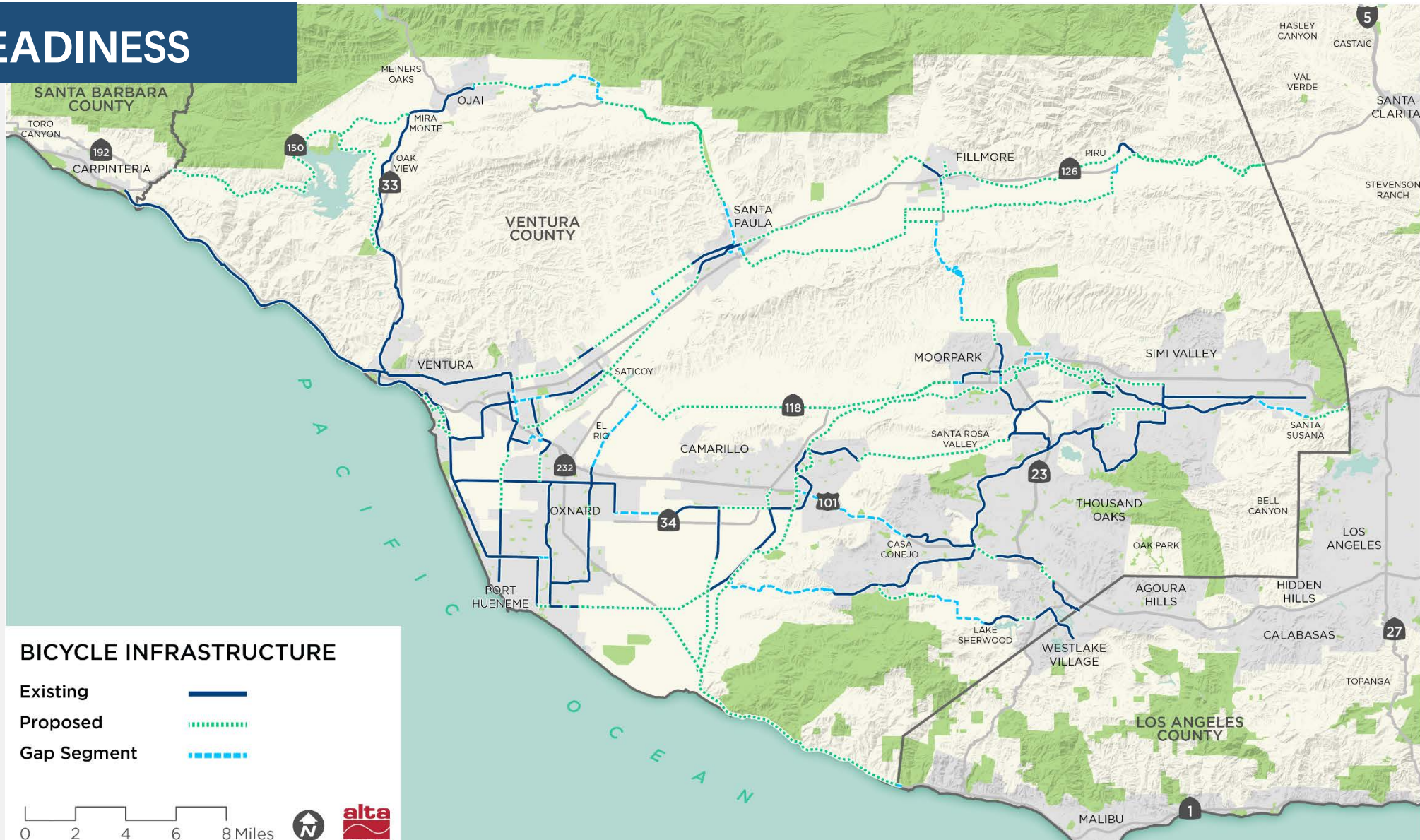
Criteria	Max Points
Route Readiness	27
Need	24
Safety/Comfort/Skill Level	21
Regional Connections	16
Community Support	12

EVALUATION CRITERIA EXAMPLE

ROUTE READINESS

CRITERIA:

- Existing Bike Facilities
- Planned Bike Facilities

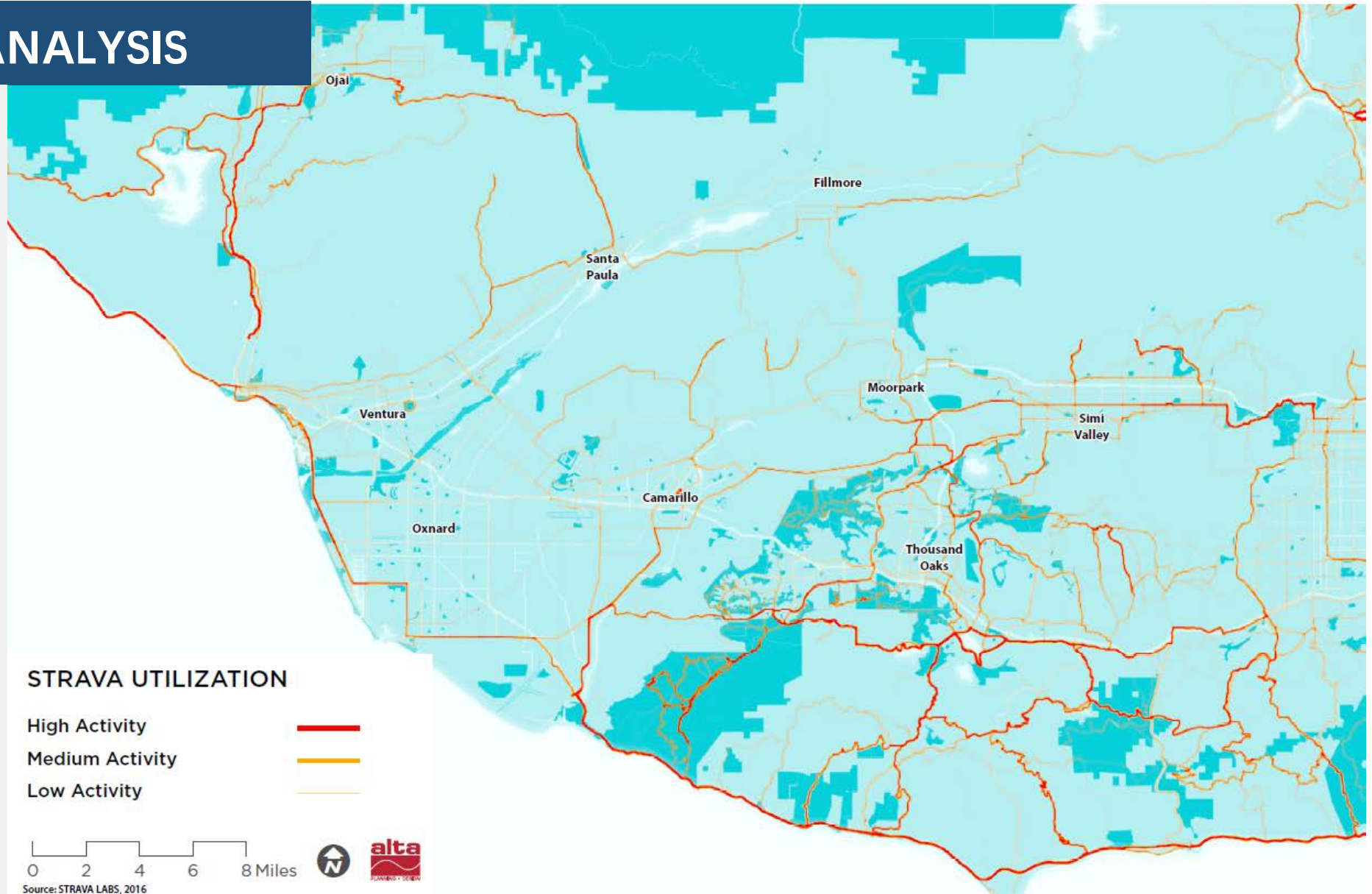


EVALUATION CRITERIA EXAMPLE

NEEDS ANALYSIS

CRITERIA:

- Population Density
- Intersection Complexity
- Strava Score

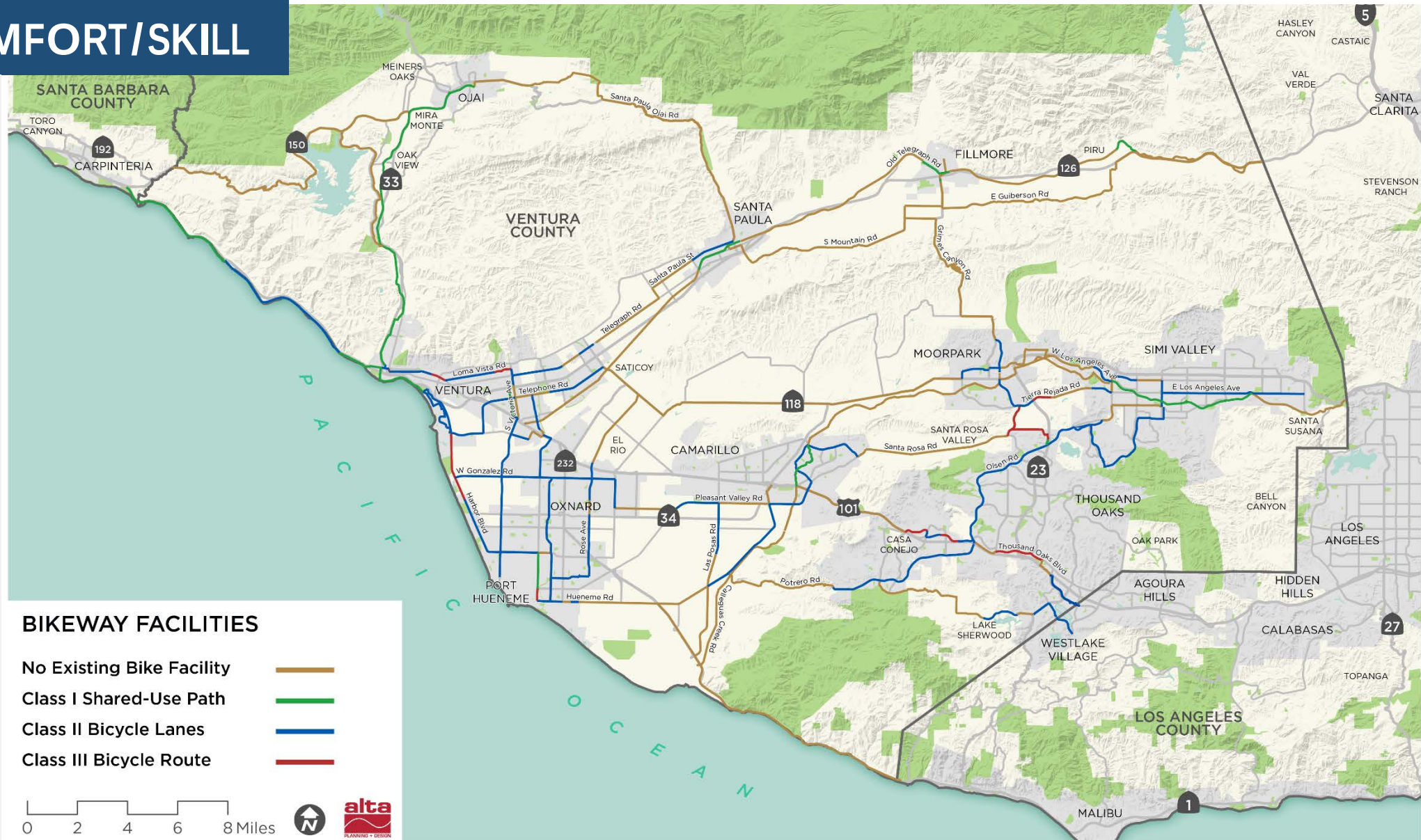


EVALUATION CRITERIA EXAMPLE

SAFETY/COMFORT/SKILL

CRITERIA:

- Bicycle Facility Class
- Posted Speed Limit
- Bicycle Collisions



EVALUATION CRITERIA EXAMPLE

REGIONAL CONNECTIONS

CRITERIA:

- Major Employers
- Destinations
- Public Outreach

DESTINATIONS

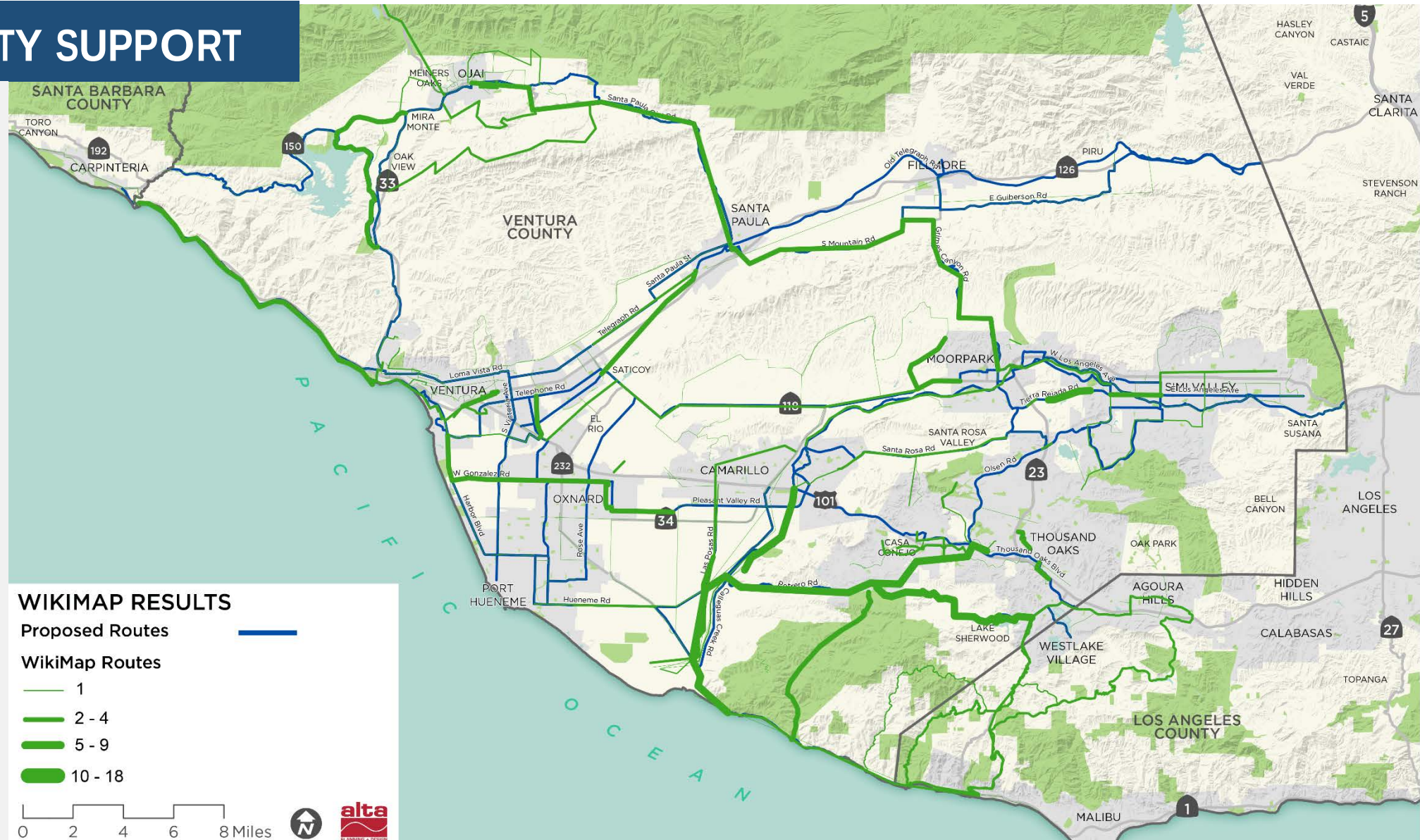
- ★ City/Town Centers
- 🏢 Commercial Districts
- 🎓 Colleges/Universities/High Schools
- 🏭 Major Employers & Hospitals
- 🏛 Cultural
- 🏞 Recreation
- 🚊 Transit Station
- 🌳 Parks & Public Beaches

0 2 4 6 8 Miles



COMMUNITY SUPPORT

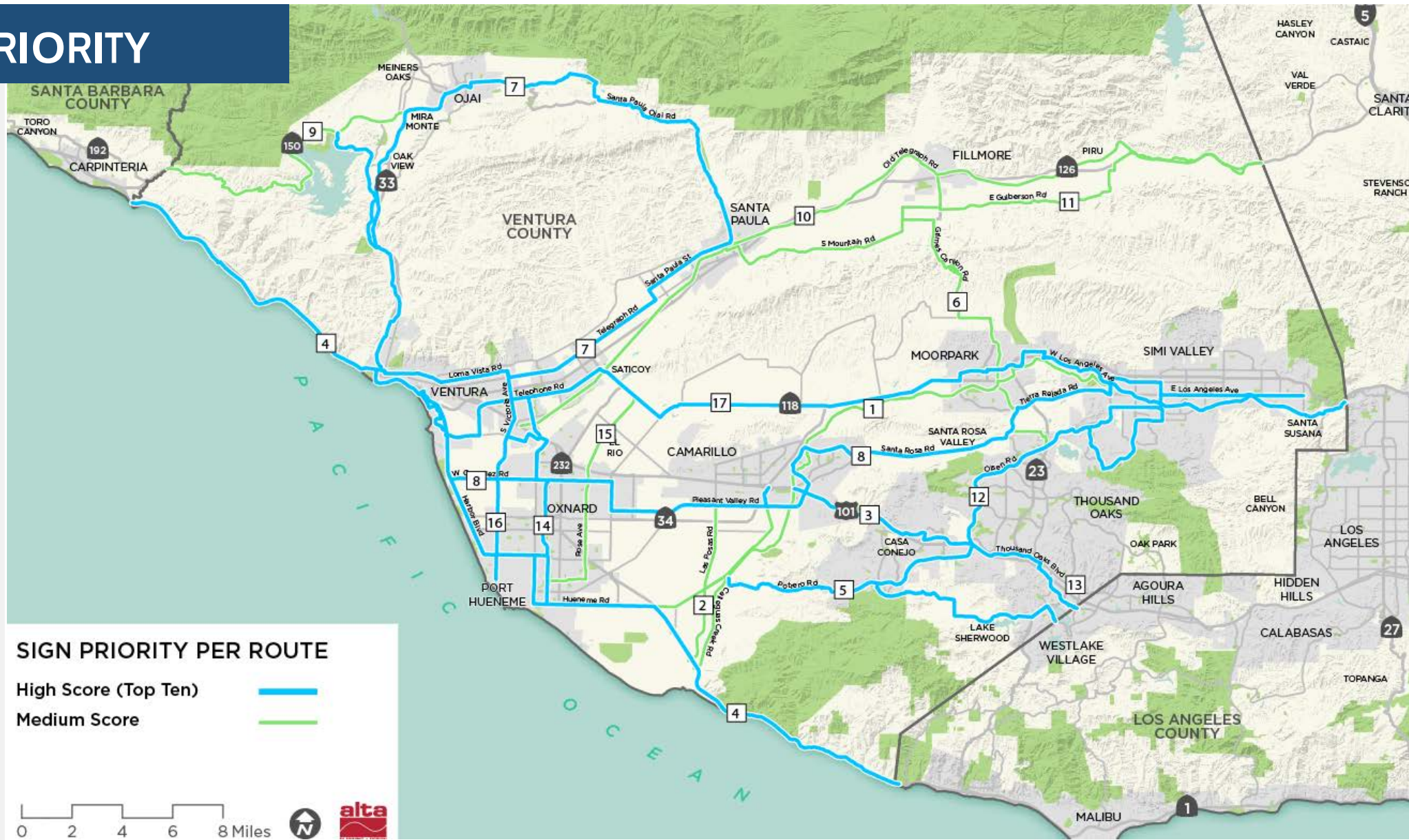
- **WikiMap Results**
- **Public Outreach**



SIGN PRIORITY

- **High level of readiness**
- **Need for Wayfinding**
- **Robust connection to regional destinations**
- **Strong Community support**

- **Opportunities to move off road for trail projects**



TOP 10 PRIORITY ROUTES

ROUTE	ROUTE ID	SCORE
Oxnard to Simi Valley	8	84
Simi Valley to Thousand Oaks	12	82.5
Ventura to Port Hueneme (Victoria Avenue)	16	82
Coast Route	4	79
Ojai Loop (Ventura/Santa Paula/Ojai)	7	75
Ventura to Simi Valley	17	75
Thousand Oaks to Agoura Hills	13	73
Camarillo to Thousand Oaks	3	69
Coast Route to Westlake Village	5	67
Ventura/Oxnard/Port Hueneme	14	63

INFRASTRUCTURE IMPROVEMENTS

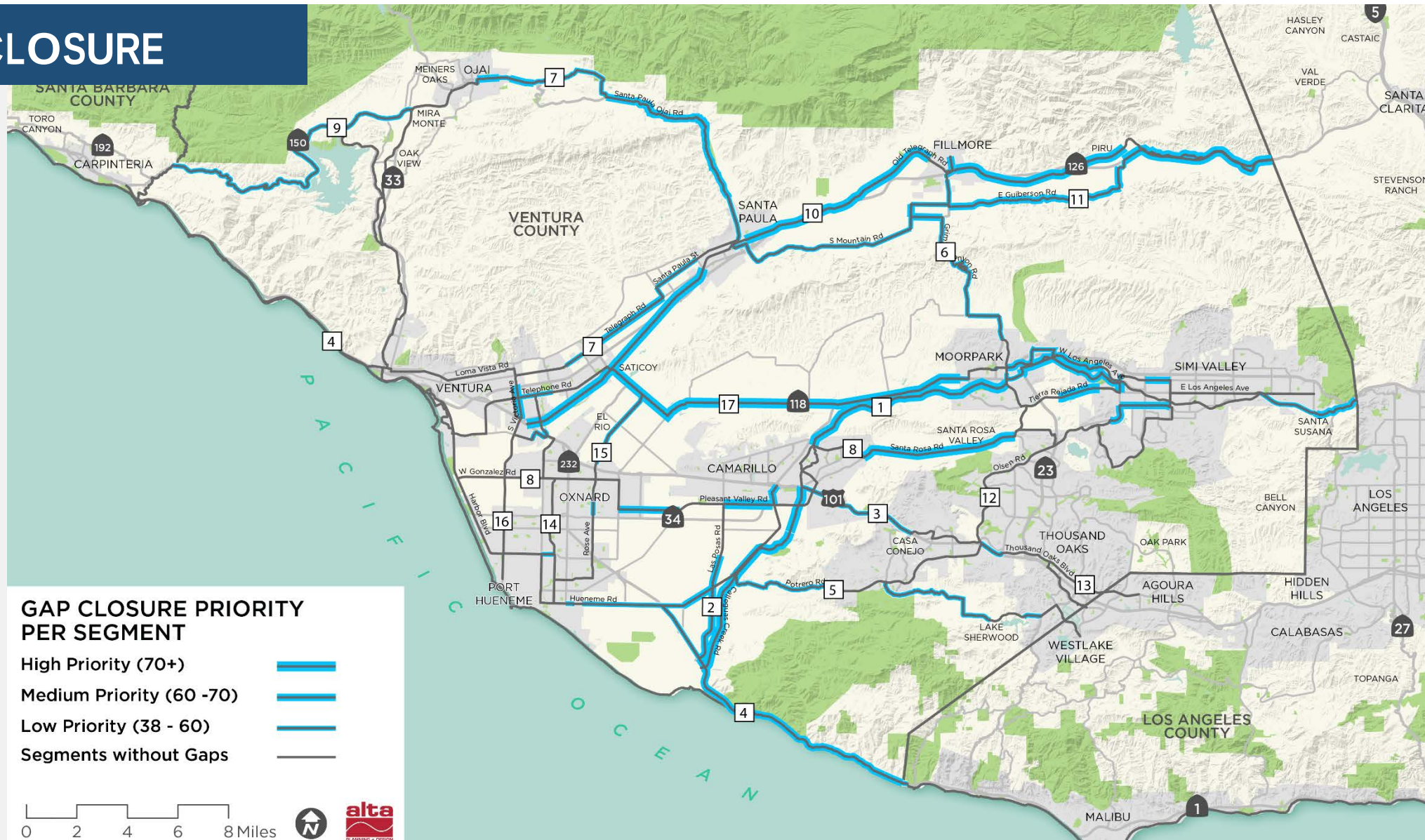
GAP CLOSURE

EVALUATION CRITERIA:

Route Priority

Safety/Comfort/
Skill Level

New Bikeway
Potential / Ease of
Implementation



SIGN DESIGN



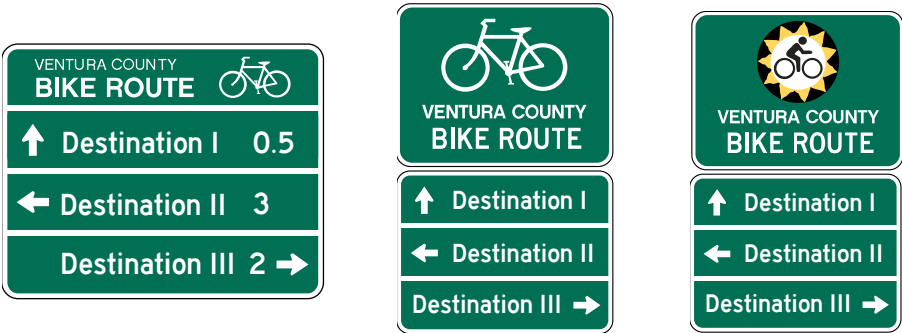
SIGN DESIGN

Survey results

Concept Design Options

SIGN PREFERENCE

USER SURVEY RESULTS



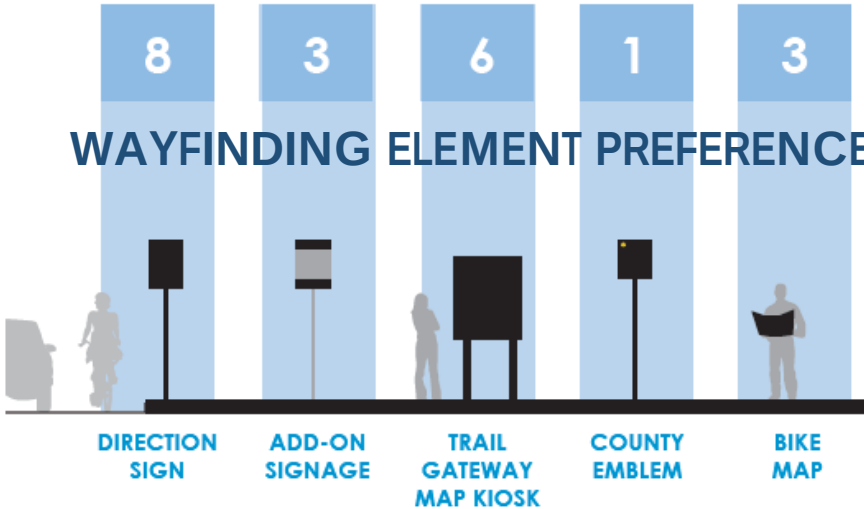
ONLINE SURVEY	54 %	24.5%	21.5%
THOUSAND OAKS STREET FAIR 10/16	16 %	70%	14%
CHANNEL ISLANDS FARMERS MARKET 11/13	15 %	42%	43%

TTAC SURVEY RESULTS

MUTCD SPECTRUM PREFERENCE



WAYFINDING ELEMENT PREFERENCE



WHAT'S OUT THERE TODAY?

EXISTING SIGNS

Grand Loop

Sign located in Ventura. Cycle California Coast bicycle tourism initiative for Ventura and Santa Barbara Counties



Photo by: Derek Towers

Arroyo Simi Bike Trail Simi Valley



Read Road Connector Path Thousand Oaks

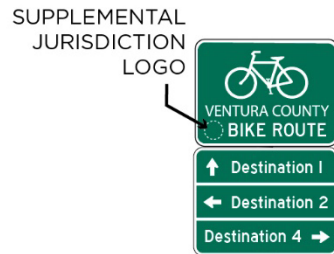


SIGN DESIGN- CONCEPTS 1 & 2

Decision Sign
With Mileage
(CONCEPT 1)



Decision Sign
(CONCEPT 2)



MODIFIED
D11-1

D1-3

Confirmation
Sign with
Mileage
(CONCEPT 2)

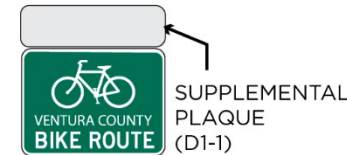


Turn Sign
(CONCEPT
1 & 2)



TURN
PLAQUE
(M6-1)

Confirmation Sign
After Turn
(CONCEPT
1 & 2)



CONCEPT 1

- Modified bike guide signs include Ventura County name.
- Maintains MUTCD Standard colors.

CONCEPT 2

- Modified (D11-1) bike guide signs include Ventura County name.
- Decision signs (with arrows) separate plaques from confirmation sign (with mileage).
- Maintains MUTCD Standard colors.

SIGN DESIGN- CONCEPT 3A/3B

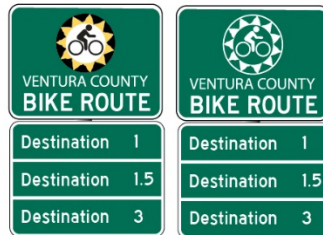
SUNBURST – COLOR (3A) OR GREEN & WHITE (3B)

CONCEPT 3A/3B

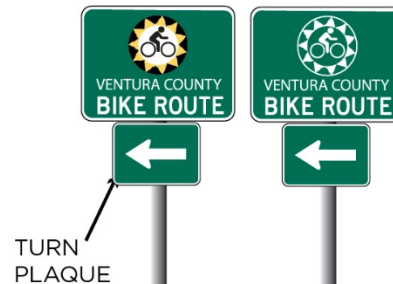
Decision Sign



Confirmation Sign
With Mileage



Turn Sign

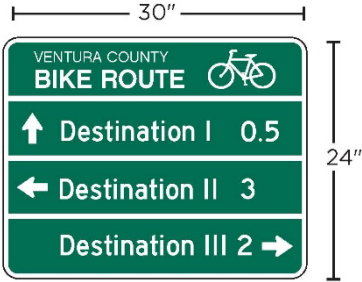
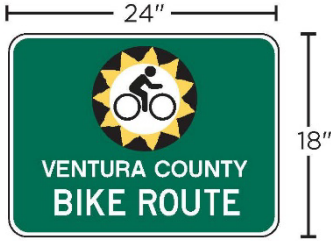


Confirmation Sign
After Turn



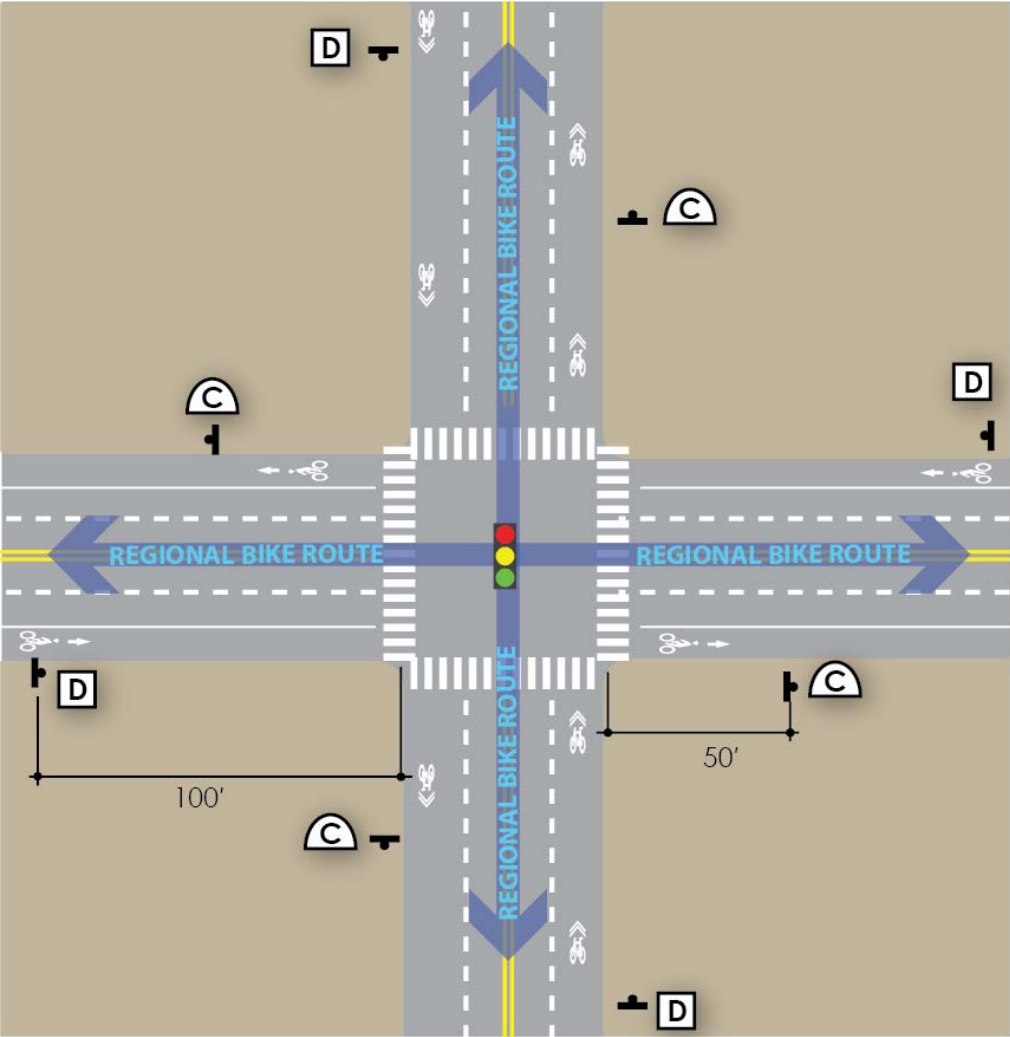
- Modified (D11-1) bike guide signs include sunburst bike logo based on South Santa Barbara County bike wayfinding sign
- Decision signs (with arrows) separate plaques from confirmation sign (with mileage).
- 3 color logo (3A), or MUTCD Standard Colors (3B).

SIGN PLAQUE COSTS

CONCEPT	1A	2	3A	B	C	D
						
	(MODIFIED D11-1)	(MODIFIED D11-1)	(D1-3)			
SIGN PLAQUE COST	\$300	\$200*	\$255*	\$225	\$85	\$60

SIGN PLACEMENT

ROUTE TO ROUTE



CONCEPT 1

D: Decision

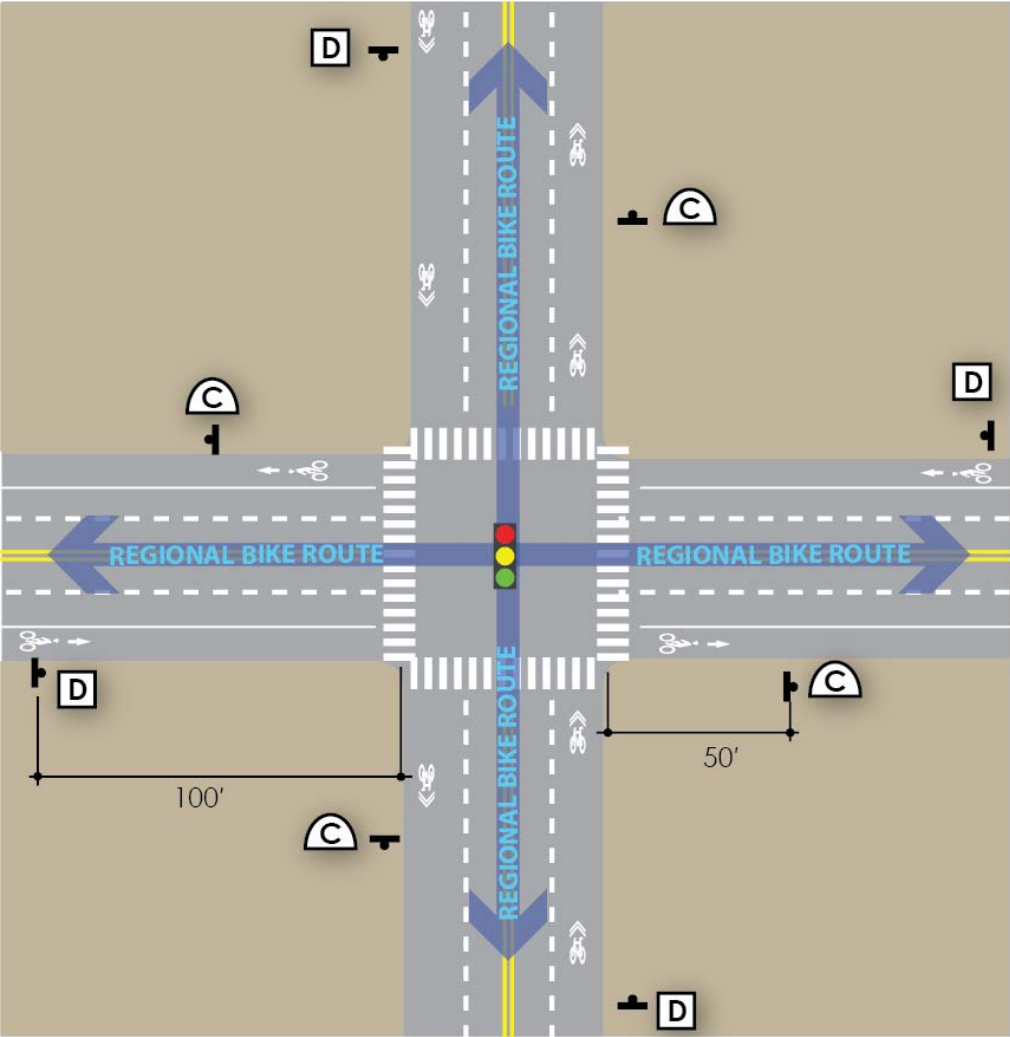


C: Confirmation



SIGN PLACEMENT

ROUTE TO ROUTE



CONCEPT 2

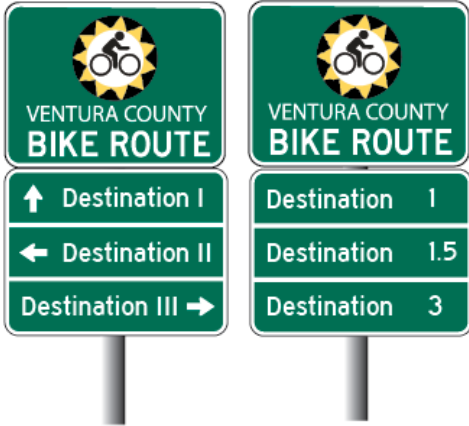
D: Decision



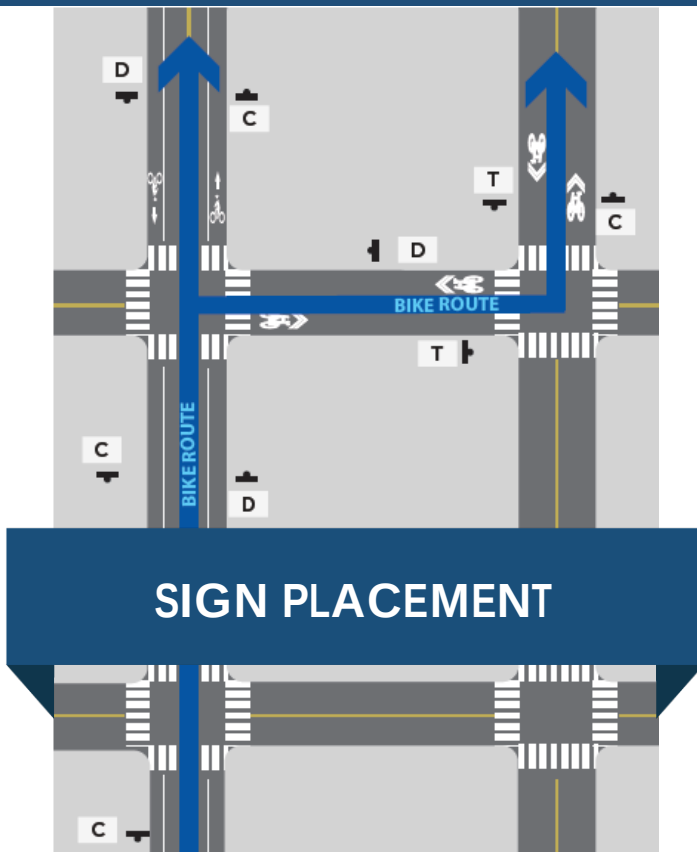
C: Confirmation



COST PER 4-WAY INTERSECTION

CONCEPT	1A & 2A	2A	3A	3B
				
SIGN COST	4 @ \$300, 4 @ \$200 \$2,000	8 @ \$450 = \$3,600	8 @ \$505 = \$4,040	
WITH NEW POSTS	\$4,200	\$5,800	\$6,204	\$?

SIGN PLACEMENT



Proposed Approach for Sign Placement

Select Routes for Phase I

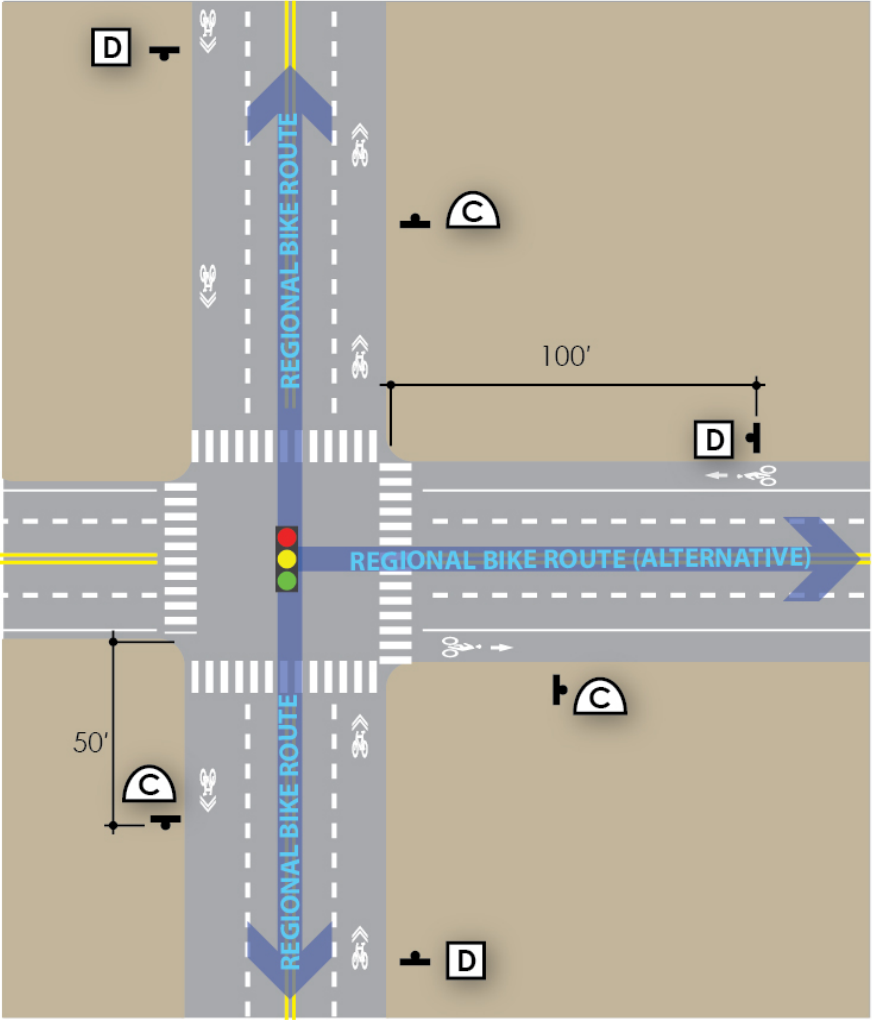
Destination Selection

PROPOSED SIGN LOCATIONS



SIGN PLACEMENT

ROUTE END TO NEW ROUTE



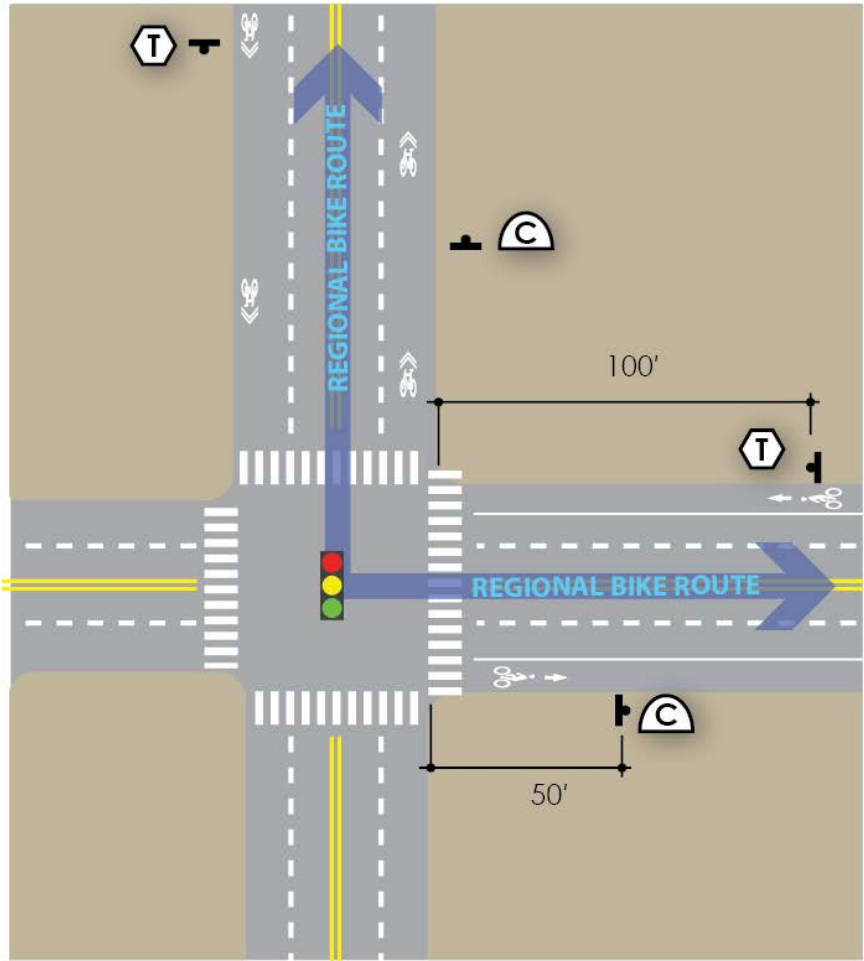
D DECISION
SIGN



C CONFIRMATION
SIGN / MARKER



ROUTE TURN



C CONFIRMATION
SIGN / MARKER



T TURN SIGN



CONTACTS



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