



# Contra Costa College Mobility Hub Plan

Final Draft | Executive Summary  
September 2023



Prepared by:  
**Kimley»»Horn**



## PROJECT INTRODUCTION

The City of San Pablo, sponsored by Contra Costa Transportation Authority's (CCTA's) Measure J Transportation for Livable Communities (TLC) Program, conducted the Contra Costa College Mobility Hub planning study ("Study") to identify challenges and opportunities to create a well-rounded multimodal hub in the vicinity of Contra Costa College (CCC), and to develop a set of recommendations to enhance mobility and sense of place for the existing and future residents and users of the area. The Study Area consists of the CCC campus, the area north of El Portal Drive, including the Moraga Road-Castro Road loop, the College Center Shopping Plaza, and the commercial area along San Pablo Avenue between Road 20 and Rivers Street.

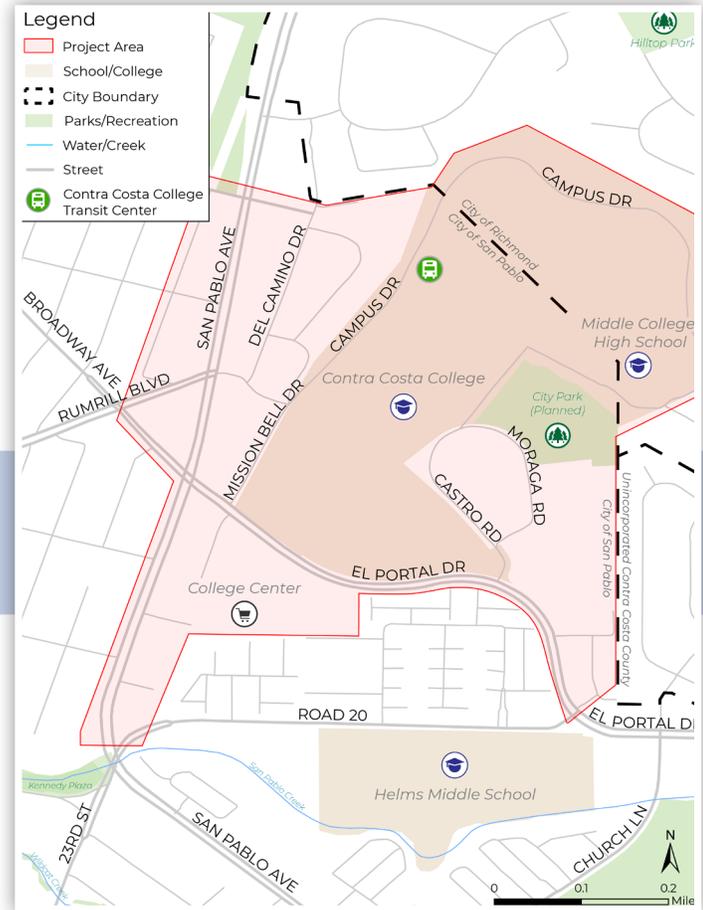
The Study reviewed and incorporated the City's visions stated throughout the following recent guiding land-use development and transportation policy documents:

Funding Provided by Measure J



- San Pablo General Plan 2030
- San Pablo Avenue Specific Plan
- [Updated Transit-Oriented Development Master Plan](#)
- 2023-31 Draft Housing Element
- San Pablo Avenue Multimodal Corridor Plan

The Study findings support the cooperative transportation planning efforts for the surrounding area, accommodating the increased mobility needs and growing population generated by the planned transit-oriented development (TOD).



## Study's Guiding Objectives



Integrate with local, regional, and mode-specific plans and create a cohesive transportation plan for the area's transportation network



Respond to the unique needs and characteristics of the College and surrounding communities



Integrate a diverse set of mobility options that facilitate convenient and intuitive transfer between travel modes



Promote a convenient and safe environment by eliminating or reducing stress at conflict zones for a seamless travel between modes



Incorporate future electrification and sustainability solutions that is adaptive and meet the growing needs for flexible shared mobility solutions



Leverage existing and planned active transportation and transit network

## TASKS PERFORMED



Assessed existing corridor needs and opportunities



Conducted 2 rounds of community engagement



Engaged with key stakeholders



Recommended innovative and implementable multi-modal improvement solutions

## Project Timeline

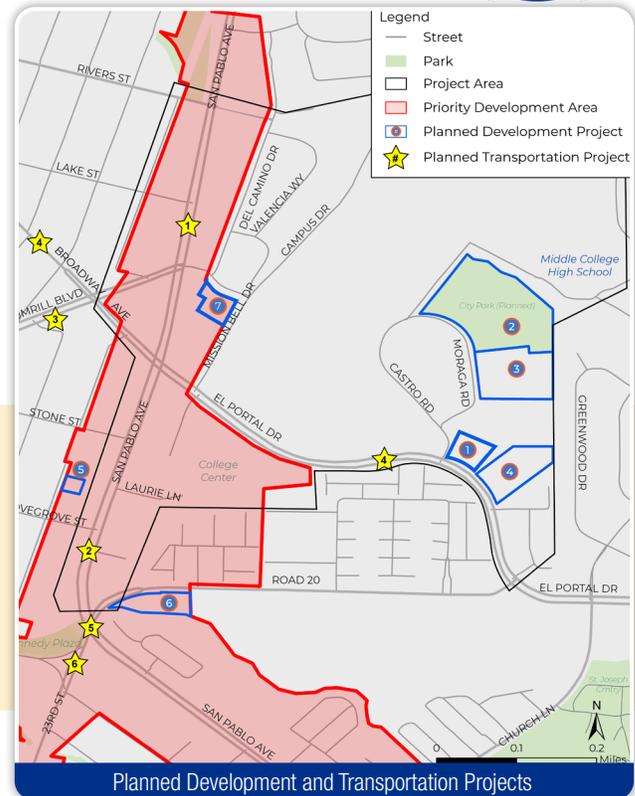




## ONGOING DEVELOPMENTS AND PLANNED PROJECTS

Two major projects are currently under construction within the Study Area (new City Park and a self storage facility). Five other planned housing development projects are estimated to add over 158 housing units to the City, including a mixed-use TOD project, and a supportive housing project. These projects will generate increased transit and mobility needs for the area.

*In response to those increased needs, the City identified over 20 transportation projects in the latest General Plan Update to enhance the existing roadway network and attempt to bridge the gap between existing infrastructure and future land use and mobility needs.*



Planned Development Projects	Location	Description
1 Community Care Facility	2523 El Portal Drive	Future residential care facility for up to 32 residents
2 City Park	Moraga Road and Library Dr	Future Park Location at 2600 Moraga Road
3 Self Storage Project	2622 Moraga	124,000 sq. Foot Self Storage facility
4 Supportive Housing Project	2555 El Portal Dr	68 Units of Permanent Supportive Housing
5 Residential Housing	2432 2442 22nd Street	8 Above Moderate Income Residential Units
6 Mid-Rise Housing	2364 Road 20	58 Above Moderate Income and 6 Low Income Residential Units
7 Contra Costa Housing Authority Section 8 Office	2324 College Lane	Future office site location

Planned Development Projects	Location	Description
★ San Pablo Avenue Multimodal Corridor Project	Hilltop Mall through Oakland	Implement transit priority and safety improvements along San Pablo Avenue from Hilltop Mall through Oakland in Alameda County. Phase 2 planning study completed in 2023.
★ Bicycle and Pedestrian Corridor Study	Various arterial corridors in San Pablo	Improve bicycle and pedestrian infrastructure along 10 corridors throughout the City. Planning study completed in 2022.
★ Rumrill Boulevard Complete Streets Project	San Pablo Ave to Costa Ave	Reduction of four-to two-lane corridor to accommodate new Class IV cycle track and other pedestrian crossing improvements. Currently under construction.
★ Broadway-El Portal Cycle Tracks Project	Along Broadway and El Portal	Add two-way Class IV cycle track to the north side of the corridor. Additional pedestrian crossings and curb ramps will be added. Received Active Transportation Program grant funding.
★ San Pablo Bridge Replacement	Intersection of San Pablo Ave/Road 20/23 <sup>rd</sup> Street	Replace outdated bridge and reconfigure intersection geometry.
★ I-80 High Capacity Transit Study (BRT Corridors)	San Pablo Ave and 23 <sup>rd</sup> St	Study completed on 2017, identifying funding opportunities and projects to expand high-capacity transit service and access. Five proposed projects include consideration for future BRT on San Pablo Ave and on 23rd St.



## EXISTING TRANSPORTATION NETWORK CONTEXT

### Auto and Active Transportation

The existing Study Area consists of a mix of roadway types that connect the residential areas on the west of San Pablo Avenue to the surrounding area and major local destinations (one elementary school, two middle schools, the Contra Costa Community College campus, and the CCC Transit Center). In reviewing the current transportation network, the Study identified a number of bicycle and pedestrian gaps, safety issues, and accessibility issues for all modes.



#### Pedestrian Issues

- Low pedestrian visibility at intersections
- Lack of pedestrian wayfinding
- Missing crosswalk facilities
- Deficient or dated streetscape, including lack of pedestrian lighting
- Several curb ramps and crossings are not accessible



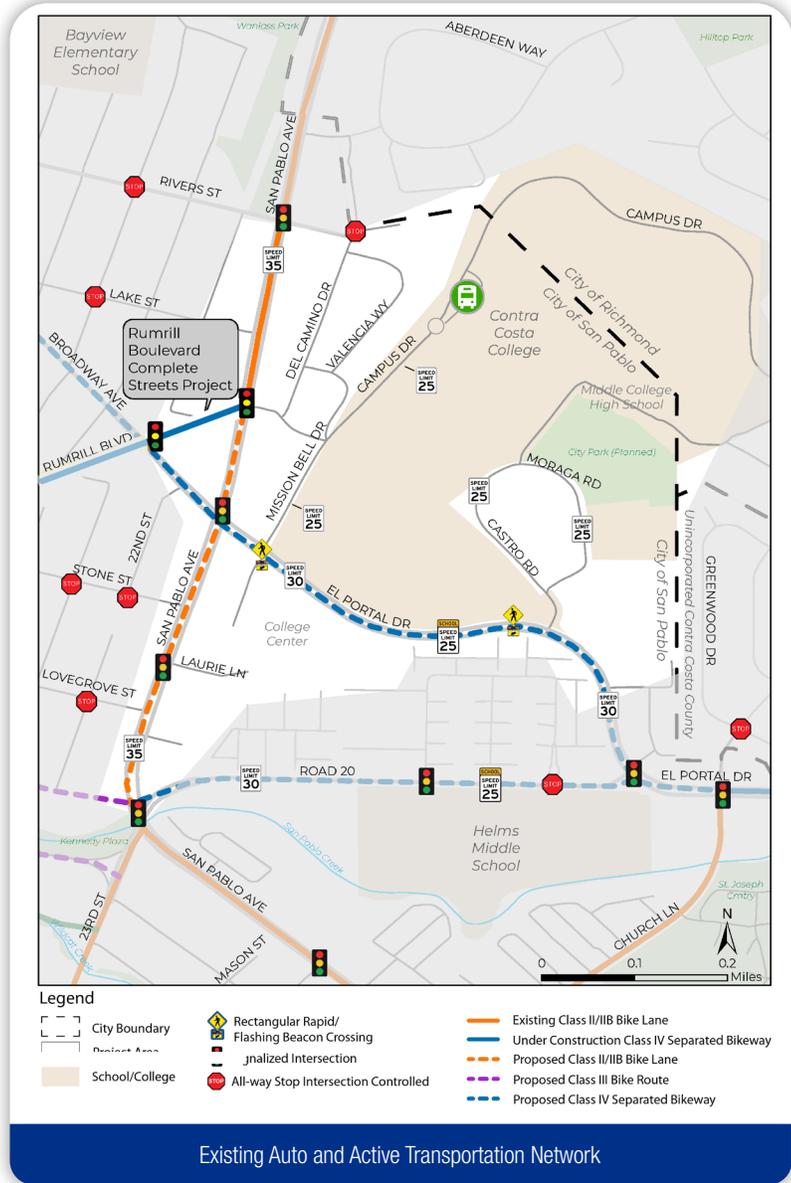
#### Bicycle Issues

- Missing bicycle lanes on San Pablo Avenue, El Portal Drive, Castro Road, Moraga Road, and College Lane
- Missing bicycle crossings at intersections
- Challenges turning to/from major streets



#### Roadway Issues

- Unsafe or illegal U-turns at mid-block locations along El Portal Drive
- Narrow parking shoulder along Campus Drive
- Vehicles making right turns at high speeds along San Pablo Avenue
- Vehicles traveling at high speeds along certain corridors (Mission Bell Dr, Castro Rd, and El Portal Dr)
- Some streets are too wide



## Existing Conditions Identified for Improvements



Missing Pedestrian Crosswalks



Deteriorated and Non-Compliant Curb Ramps



High Speed Right-Turns Create Challenging Pedestrian Environment



Narrow Sidewalk and Lack of Bicycle Facilities Accessing College



## EXISTING TRANSPORTATION NETWORK CONTEXT

### Transit Services

The Contra Costa College Transit Center is located at the northwestern corner of the campus on Campus Drive. The Transit Center has a total of 10 bus bays served by 10 AC Transit lines and one WestCAT bus route. Excluding the school lines, there are a total of 234 bus trips daily at the Transit Center.

The CCC Transit Center is accessed daily by over 1,000 transit riders. Line 72R is the most popular line for both boardings and alightings with an average of 261 riders per day.

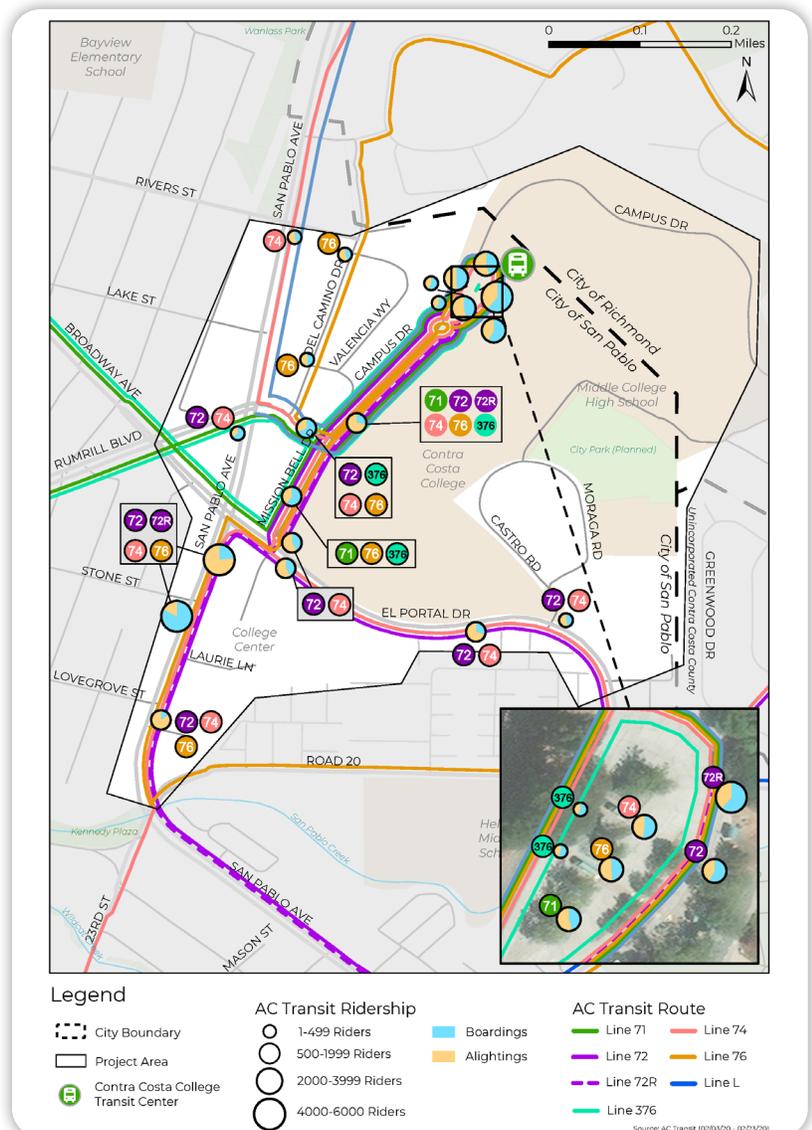
AC Transit Line	Average Daily Boarding	Average Daily Alighting
71	92	96
72	116	78
72R	158	103
74	118	98
76	74	65
376	14	8
<b>Grand Total</b>	<b>572</b>	<b>447</b>

Besides the transit service provided at the Transit Center, there are eight other major bus stops within the Study Area that are highly utilized by residents to connect to the surrounding region. These bus stops lack many basic amenities, such as bus shelters, benches, or trash cans.

AC Transit			
Route	Frequency (min)	Service Hours	Trips/Day
71	30	6:20 AM – 8:20 PM	29
72	30	4:50 AM – 11:50 PM	39
72R	12	6:12 AM – 7:14 PM	66
74	30	4:24 AM – 8:55 PM	34
76	30	5:15 AM – 8:15 PM	31
376	30	9:23 PM – 2:24 AM	11

West CAT			
Route	Frequency (min)	Service Hours	Trips/Day
C3	30	7:30 AM – 8:05 PM	24



Missing Placemaking at Key Locations, including the Transit Center



Lack of Bus Stop Amenities



## STAKEHOLDER AND COMMUNITY ENGAGEMENT

### Stakeholder Involvement

The Study Team held three virtual meetings via Zoom with key stakeholders to present project findings and solicit input.

#### Key Stakeholders

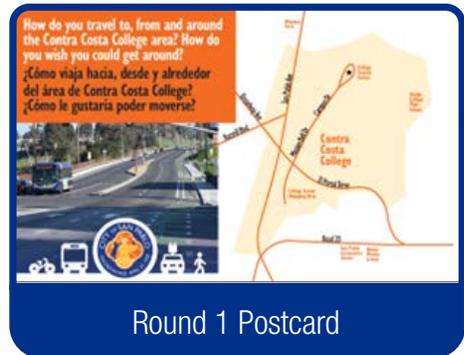


### Public Engagement Round One – Fall 2022

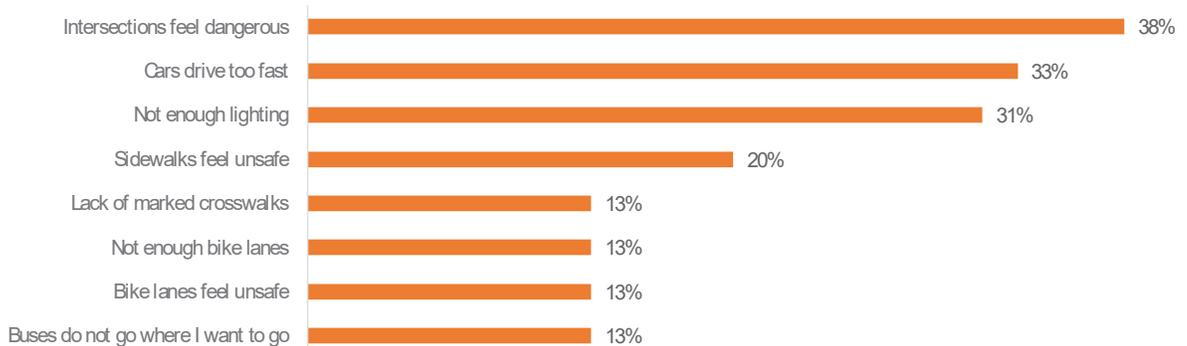
October 17, 2022 - November 28, 2022

The Study conducted an online community survey in two languages (English and Spanish) to solicit input on the overall vision and needs in the project area, via various channels:

- Social media channels
- 3,977 postcards distributed via mail
- Email blast
- City's website posting City manager's e-newsletter
- Nextdoor
- Local community groups
- Posters at Transit Center

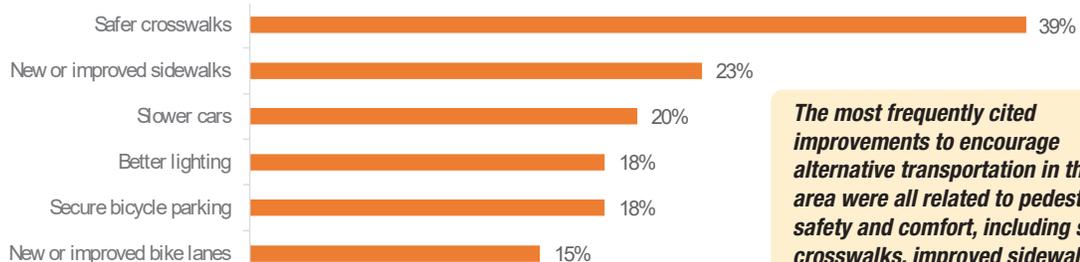


#### What are your top 3 concerns about traveling in the study area? (Does not add up to 100%, as respondents were allowed to select up to 3.)



Other options with fewer than 13% of responses not shown.

#### What would encourage you to walk, bike, or use a wheelchair in the study area? (Does not add up to 100%, as respondents were allowed to select up to 3.)



Other options with fewer than 15% of responses not shown.

**The most frequently cited improvements to encourage alternative transportation in the study area were all related to pedestrian safety and comfort, including safer crosswalks, improved sidewalks, and slower traffic speeds.**



## Round Two – Spring 2023

Round two outreach activities consisted of both virtual and in-person activities, including the following:

Two in-person, pop-up events

- Contra Costa College Earth Day  
↳ April 21, 2023
- San Pablo Supermarket at the College Shopping Center  
↳ April 28, 2023

A virtual public info session

↳ May 2, 2023

Supplemental online survey

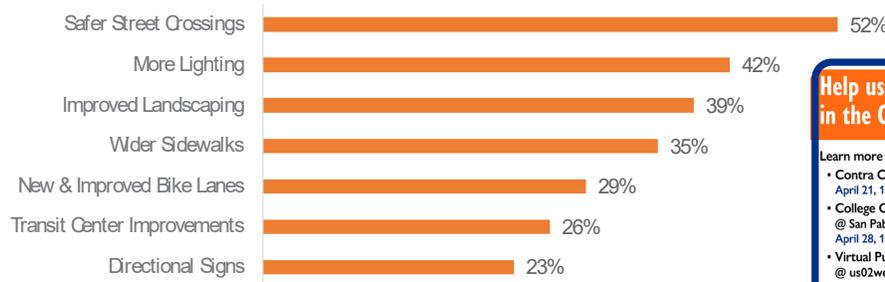
↳ April 21 - May 13, 2023

### POP-UP EVENT PHOTOS



Top Two: Contra Costa College  
Bottom Two: San Pablo Supermarket

*Of all the improvements proposed, which three are the most important to you? (Does not add up to 100%, as respondents were allowed to select up to 3.)*



*Other options with fewer than 20% of responses not shown.*

**Most respondents (approximately 83%) were supportive of proposed improvements and felt that it would encourage them to walk, bike, or roll more in the Study area.**

### Help us improve transportation options in the Contra Costa College area!

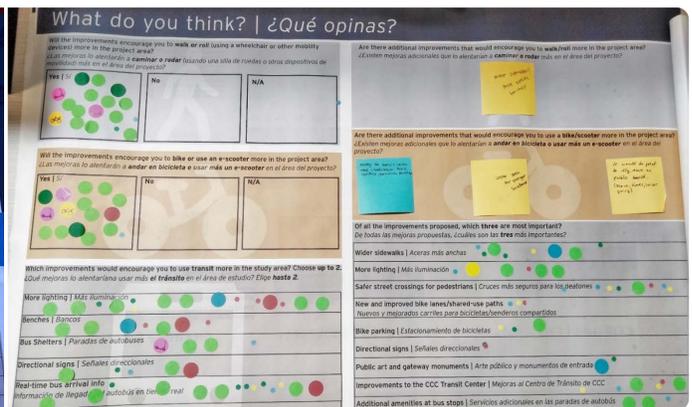
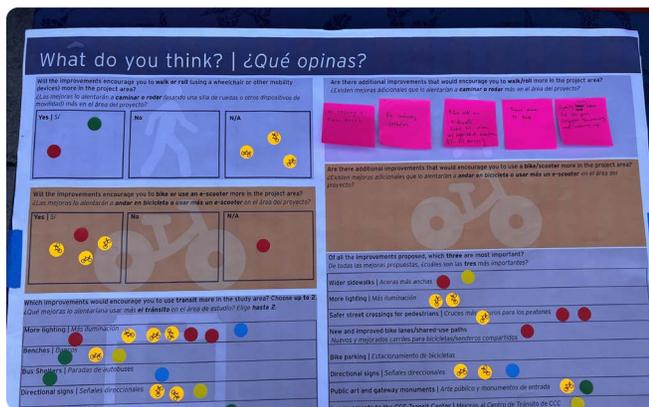
Learn more and share your thoughts at:

- Contra Costa College Earth Day (at the Quad)  
April 21, 10 a.m. - 1 p.m.
- College Center Shopping Plaza @ San Pablo Supermarket  
April 28, 10 a.m. - 1 p.m.
- Virtual Public Info Session  
@ us02web.zoom.us/j/88025331338  
May 2, 6-7:30 p.m.
- Online Survey  
@ s.alchemer.com/s/CCC-Mobility-Spring-Survey  
April 21 - May 15



This project was made possible by Measure J (sales tax) funding from the Contra Costa Transportation Authority (CCTA).

### Round 2 Promotional Banner



Community outreach responses recorded via engagement poster boards (Left: Contra Costa College | Right: San Pablo Supermarket)



## RECOMMENDED IMPROVEMENTS

The Study identified a set of recommended multimodal circulation improvements to create a better-connected transportation network that is safer and more convenient. The recommended improvements are organized into four main categories:



Bicycle



Pedestrian

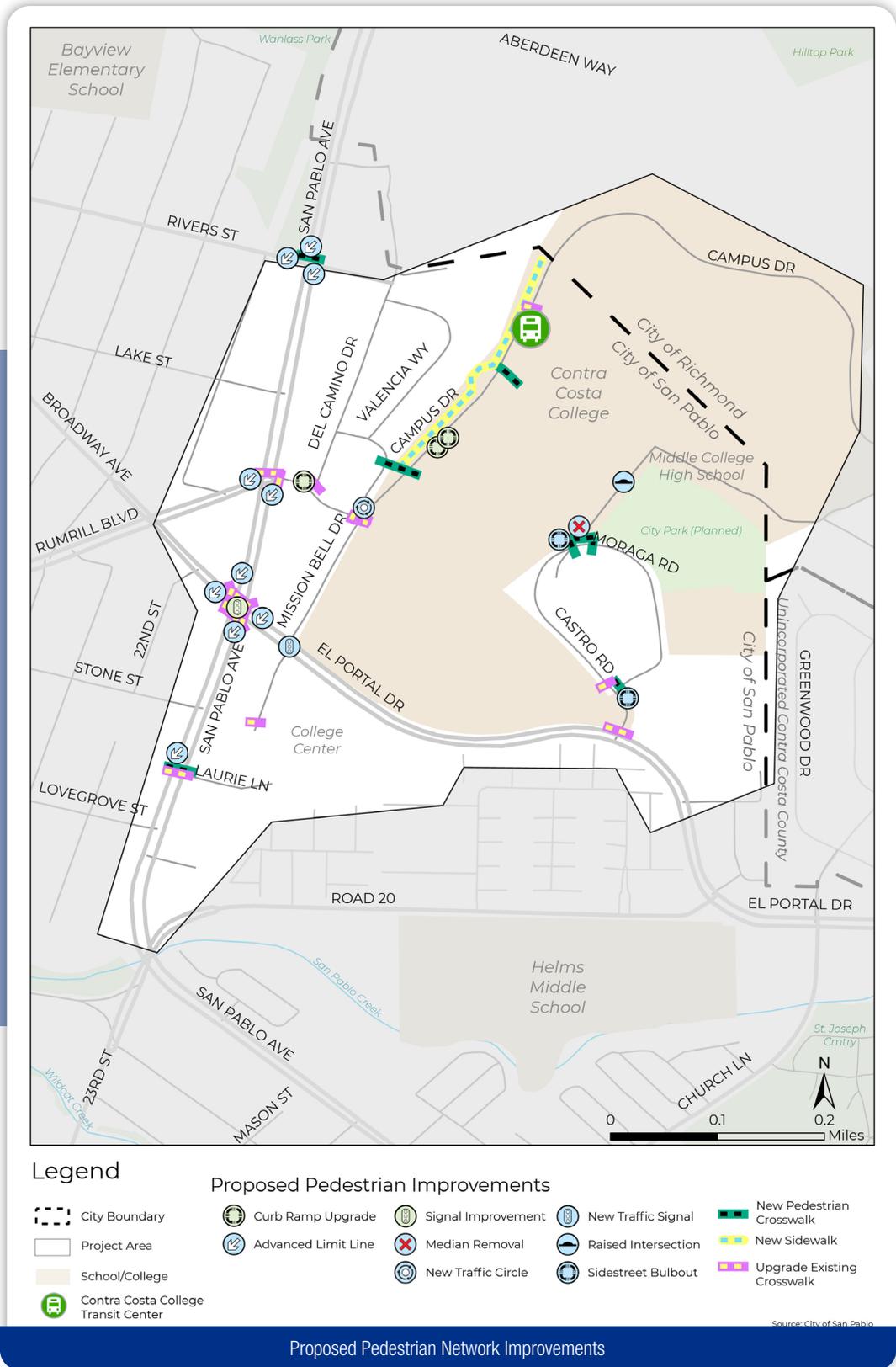


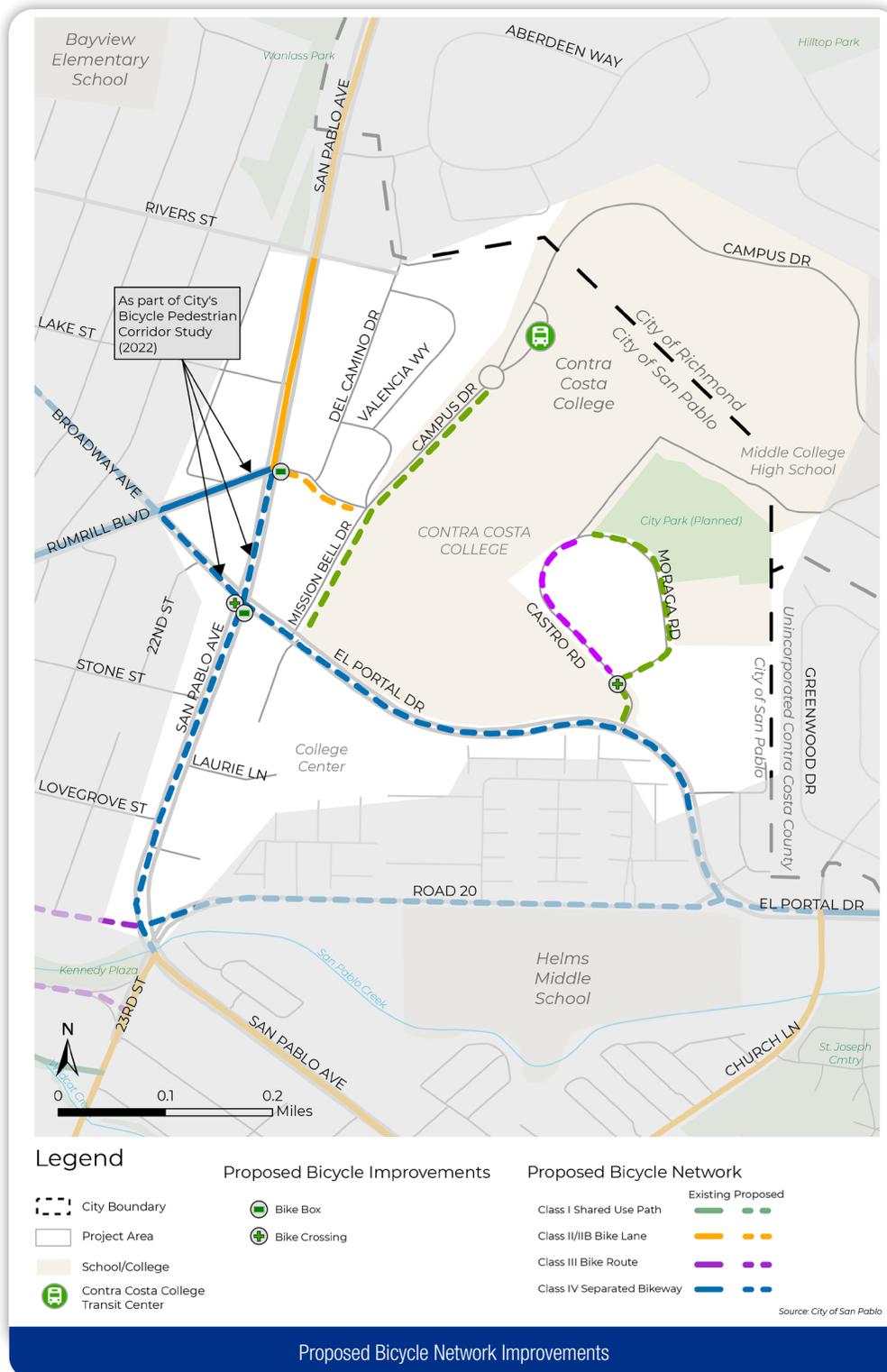
Traffic Calming



Streetscape Improvements

The 57 distinct improvements collectively aim to create a well-connected multimodal network, enhance access, improve safety for all modes, and increase accessibility to existing and future developments in the area.





The map above depicts the proposed bicycle network improvements, with bike boxes, bike crossings, and various bike facilities proposed.



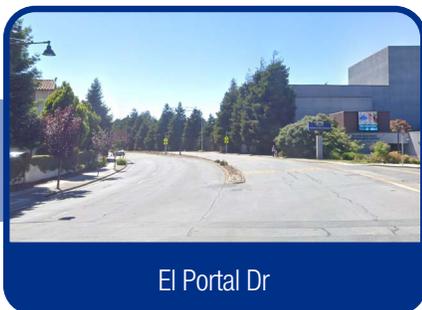
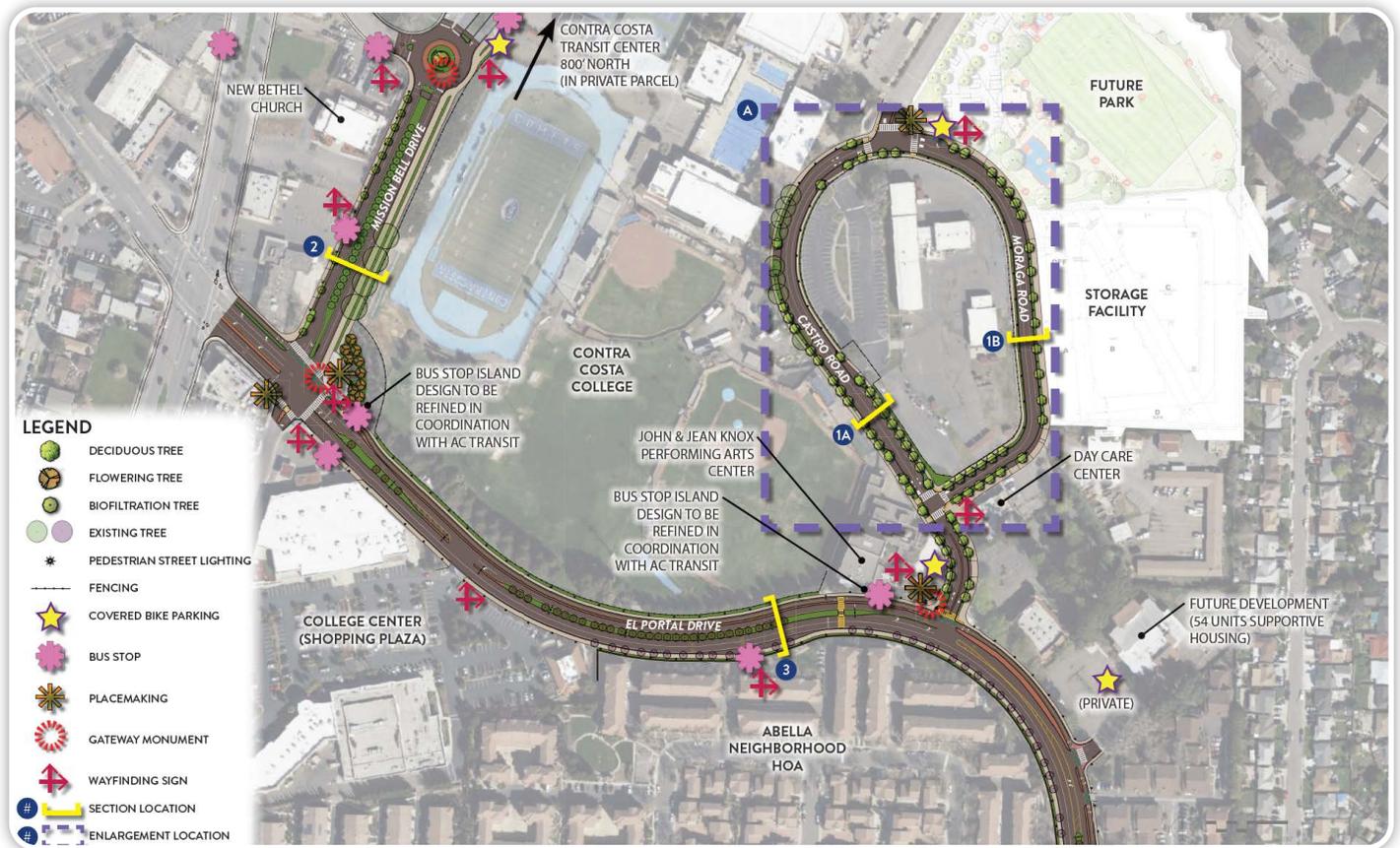
Proposed Improvement Categories	Example Images	Project Objectives
<p><b>Bicycle Improvements</b></p> <ul style="list-style-type: none"> <li>• Bike Box</li> <li>• Bike Crossing</li> <li>• Bike Lane with/without Buffer</li> <li>• Cycle Track</li> <li>• Multi-use Path</li> <li>• Bike Parking</li> </ul>	 <p>Shared Use Path</p>  <p>Raised Bikeway</p>  <p>Crossings</p>	<p>Create a connected and comfortable bicycle network</p>
<p><b>Pedestrian Improvements</b></p> <ul style="list-style-type: none"> <li>• Advanced Limit Lines</li> <li>• Curb Ramp</li> <li>• Construct New Sidewalk</li> <li>• Existing Sidewalk Upgrade</li> <li>• Leading Pedestrian Interval</li> <li>• New or Improved Pedestrian Crosswalk</li> <li>• Pedestrian Signal</li> </ul>	 <p>Raised Pedestrian Crosswalk</p>  <p>Advanced Limit Line</p>	<p>Close sidewalk gaps and improve pedestrian connections</p>
<p><b>Traffic Calming</b></p> <ul style="list-style-type: none"> <li>• Median Modification</li> <li>• Raised Intersection</li> <li>• Bulbout</li> <li>• Traffic Circle</li> <li>• Signal Improvement</li> </ul>	 <p>Raised Intersection</p>  <p>Side-Street Bulbout</p>	<p>Improve safety for vulnerable roadway users, including bicyclists and pedestrians</p>
<p><b>Streetscape Elements</b></p> <ul style="list-style-type: none"> <li>• Placemaking</li> <li>• Gateway monument</li> <li>• Wayfinding sign</li> <li>• Pedestrian street lighting</li> <li>• Landscape and vegetation (tree, flower, biofiltration tree)</li> <li>• Barrier (fencing)</li> </ul>	 <p>Placemaking</p>  <p>Tube Steel Fence</p>  <p>Biofiltration Tree</p>	<p>Create a sense of place, improve safety, and enhance sustainability</p>



The initial list of proposed improvements was reviewed and commented on by stakeholders and community members through project engagement activities. The improvements are located in, but not limited to, three major focus areas listed below.

## Major Focus Areas:

- Mission Bell Drive, Contra Costa College campus and the College Transit Center, including College Lane.
- El Portal Drive between San Pablo Avenue and Castro Road.
- Facilities along the Castro Road-Moraga Road loop, serving College performing art center and sport venues, including the three-way intersection at Moraga Road and Library Drive where the new City Park will be accessing.



El Portal Dr



Mission Bell Drive



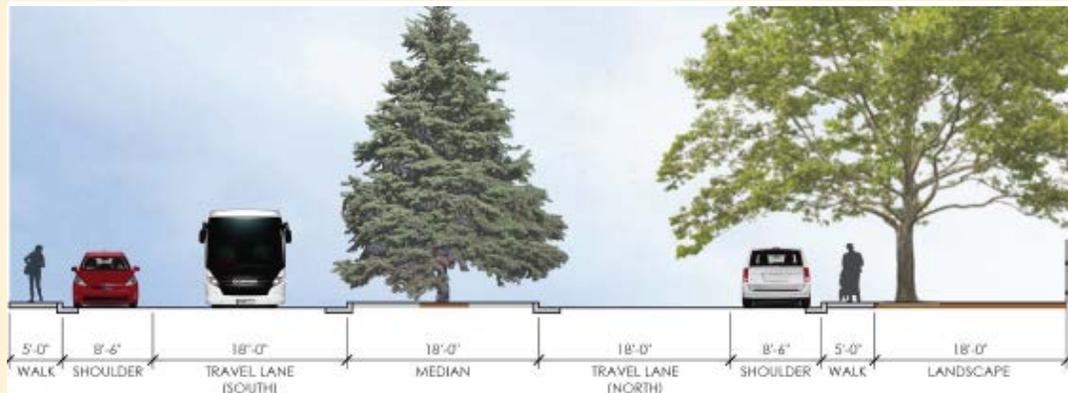
Moraga Road & Castro Road



## Mission Bell Drive

Create a connected bicycle network, including access to the College. Improvements identified as part of Bicycle and Pedestrian Corridors Project

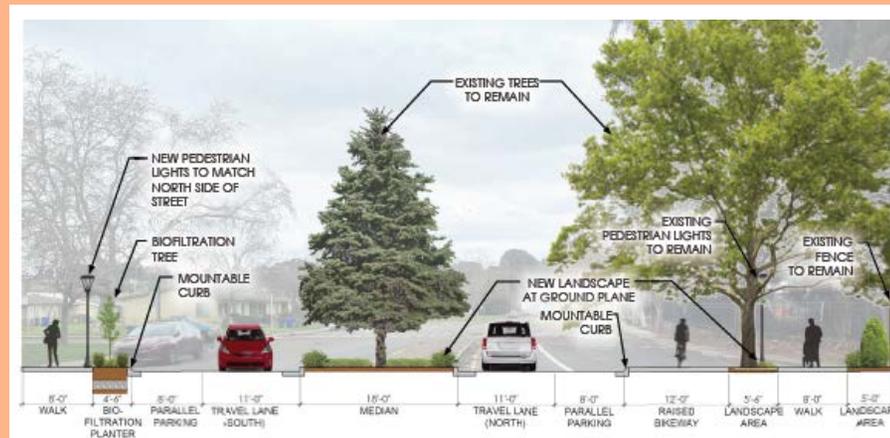
Existing



Improvements Identified

- Narrow the travel and parking lanes
- Widen sidewalk, add install bio-filtration planters protection
- Install raised bike lane on northbound direction
- Add pedestrian-scale lighting the full length of the corridor

Proposed

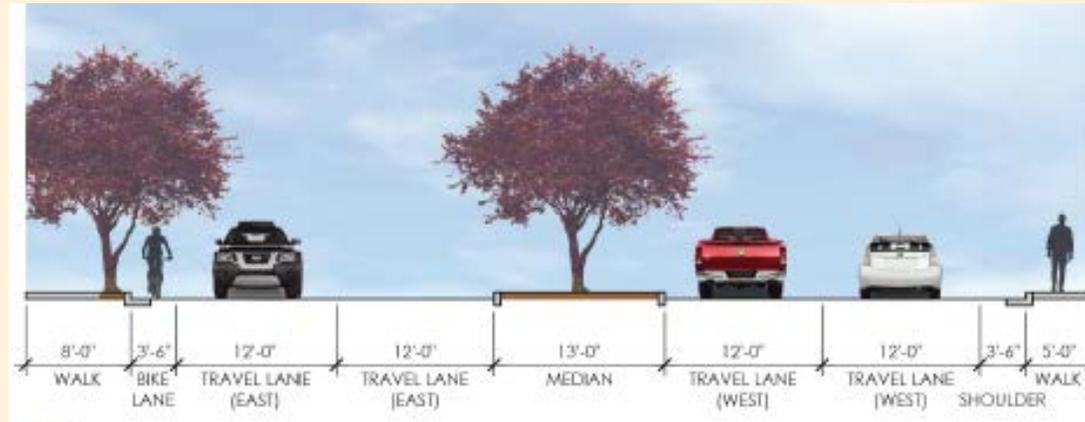




## El Portal Drive

**Existing**

Create a connected bicycle network, including access to the College. Improvements identified as part of Bicycle and Pedestrian Corridors Project



**Improvements Identified**

- Narrow the travel lanes and median
- Widen sidewalk, improve landscape on both sides
- Improve transit stop area
- Install two-way cycle track in westbound direction with raised concrete buffer
- Add pedestrian-scale lighting the full length of the corridor

**Proposed**





## Castro Road-Moraga Road Loop

New City Park expands need for new bicycle and pedestrian infrastructure comfortable for all ages and abilities

Existing



Improvements Identified

- Narrow the travel lanes and convert to parallel parking
- Widen landscape area, add fencing
- Install shared-use path along northbound Castro Road/Moraga Road
- Add pedestrian-scale lighting the full length of the corridor

Proposed

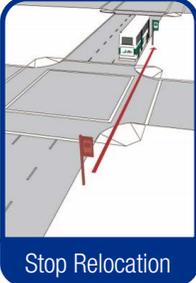




## RECOMMENDED TRANSIT IMPROVEMENTS



The goal of transit improvements is to enhance access and desirability of transit for the existing and planned transit stops at the Contra Costa College Transit Center and within the Study area. Transit improvements will require further coordination with AC Transit to confirm planned route alignments, stop locations, and service frequencies. It is recommended that the City and AC Transit partner to identify potential funding sources and implementation strategies.

Proposed Improvement Categories	Example Images	Project Objectives
<b>Transit Center Improvements</b> <ul style="list-style-type: none"> <li>Shelter Modernization</li> <li>Bike Parking</li> <li>Real Time Information</li> <li>Safety and Security</li> <li>Wayfinding</li> <li>Ticketing Machines</li> </ul>	 	<p>Create a comfortable and accessible transit center for passengers</p>
<b>Operational Improvements</b> <ul style="list-style-type: none"> <li>Transit Signal Priority (TSP)</li> <li>Bus Stop Relocation</li> <li>Dedicated Bus Lanes</li> <li>Queue Jumps</li> </ul>	  	<p>Improve bus performance, decreasing travel times and increasing bus reliability</p>
<b>Bus Stop Improvements</b> <ul style="list-style-type: none"> <li>In-lane Stops</li> <li>Bus Bulbs and Transit Islands</li> <li>ADA Accessible Paths of Travel</li> <li>Amenities Upgrades (Bench, Shelter, Lighting)</li> </ul>	 	<p>Improve bus stop locations with additional amenities</p>

### San Pablo Avenue Multimodal Corridor Project

The San Pablo Avenue Multimodal Corridor Project identified a number of recommended improvements, such as bus stop relocations, improved pedestrian access and safety, dedicated bus lanes, and transit signal priority. The recommendations of that Project are consistent with, and supportive of, the recommendations included in this Study.





## IMPLEMENTATION STRATEGIES

### Project Benefits

The recommended improvements address transportation and area priorities identified by the community. The improvements will collectively improve connectivity, provide new multimodal options that reduce reliance on private automobiles, and enhance user safety. Benefits include:

- Improve desirability of sidewalks and provide new bike facilities for children to access nearby schools
- Reduce risk of pedestrian and vehicle conflicts at high traffic intersections
- Encourage use of sustainable transportation modes to access the College and nearby land uses
- Promote transit-oriented development by enhancing desirability of area and reducing reliance on autos
- Reduce auto speeds, increasing bicycle and pedestrian comfort
- Provide new and safe connections for bicyclists
- Provide accessibility for those using mobility devices or strollers

### Implementation Packages

Initial estimates of project costs for all improvements identified in this Study, including project development phases and construction, is \$31,635,000. Additional cost refinement will occur in subsequent project development phases. The improvements have been organized into improvement packages for the purpose of this Study. Subsequent project development phases and funding constraints will determine how project improvements are ultimately packaged and delivered.

Improvement Package	Improvement Description	Estimated Cost (2023 Dollars)
1. Safety, access, and streetscape improvements on and along Mission Bell Drive/ College Lane, between San Pablo Ave and Contra Costa College campus	<ul style="list-style-type: none"> <li>• Install new signal and improve intersection geometry at El Portal Dr and Mission Bell Dr</li> <li>• Install new traffic circles</li> <li>• Construct two-way shared-use path of the east side on Mission Bell Dr connecting El Portal Dr with Transit Center, Class II buffered bike lane on EB College Lane from Mission Bell Drive to San Pablo Avenue</li> <li>• Install new pedestrian crosswalks, upgrade existing curb ramps, construct new sidewalk</li> <li>• Add pedestrian lighting, median landscaping, biofiltration planters, curb extension</li> </ul>	\$8,300,000
2. Pedestrian, bicycle improvements at intersection along San Pablo Avenue between Road 20 to Rivers Street	<ul style="list-style-type: none"> <li>• Add new advanced limit lines at intersections along San Pablo Avenue</li> <li>• Improve turning signal and turning movement</li> <li>• Add new and upgrade existing crosswalks</li> <li>• Install two-stage bicycle turn box at NB and SB approach</li> <li>• Install Class II bike lane on San Pablo Ave from Road 20 to Rumrill Blvd</li> </ul>	\$2,982,000
3. Access improvements for facilities along Castro Road-Moraga Road Loop, including intersection at Library Drive	<ul style="list-style-type: none"> <li>• Add new pedestrian lighting and street landscaping</li> <li>• Construct new sidewalk with protected landscape</li> <li>• Install bike crossing, new pedestrian crosswalk, upgrade existing curb ramps, construct side-street bulbout, modify existing median</li> <li>• Construct a raised intersection at Library Dr and Moraga Rd</li> <li>• Install Class II bike lane along Castro Rd</li> <li>• Construct shared-use path on Moraga Rd</li> </ul>	\$7,906,000
4. El Portal Drive Improvements	<ul style="list-style-type: none"> <li>• Add bike crossing</li> <li>• Construct Class IV cycle track on El Portal Dr from San Pablo Ave to Church Ln</li> <li>• Add new pedestrian lighting, median landscaping, and concrete raised buffer</li> <li>• Upgrade existing pedestrian crosswalk with high visibility crosswalk at Broadway Ave and San Pablo Ave</li> </ul>	\$6,880,000
5. Wayfinding, Signage	<ul style="list-style-type: none"> <li>• Add new wayfinding signs, gateway monuments, and placemaking to various areas within the Study area</li> </ul>	\$323,000
6. Other streetscape improvements	<ul style="list-style-type: none"> <li>• Install steel tube fencing along Castro Rd</li> <li>• Construct side-street bulbout</li> <li>• Install new high visibility and upgrade existing pedestrian crosswalk</li> <li>• Construct Class IV cycle track on Broadway Ave from San Pablo Ave to 11th St</li> <li>• Add new covered bike parking in selected areas</li> </ul>	\$5,244,000
Total Estimated Cost		\$31,635,000

### Subsequent Phases to Implementation

