

# North San Mateo Drive Sustainable Streets Improvement Project Project Update

City of San Mateo  
City Council Meeting  
April 16, 2018



Department of Public Works  
Stewards of the Infrastructure and Environment

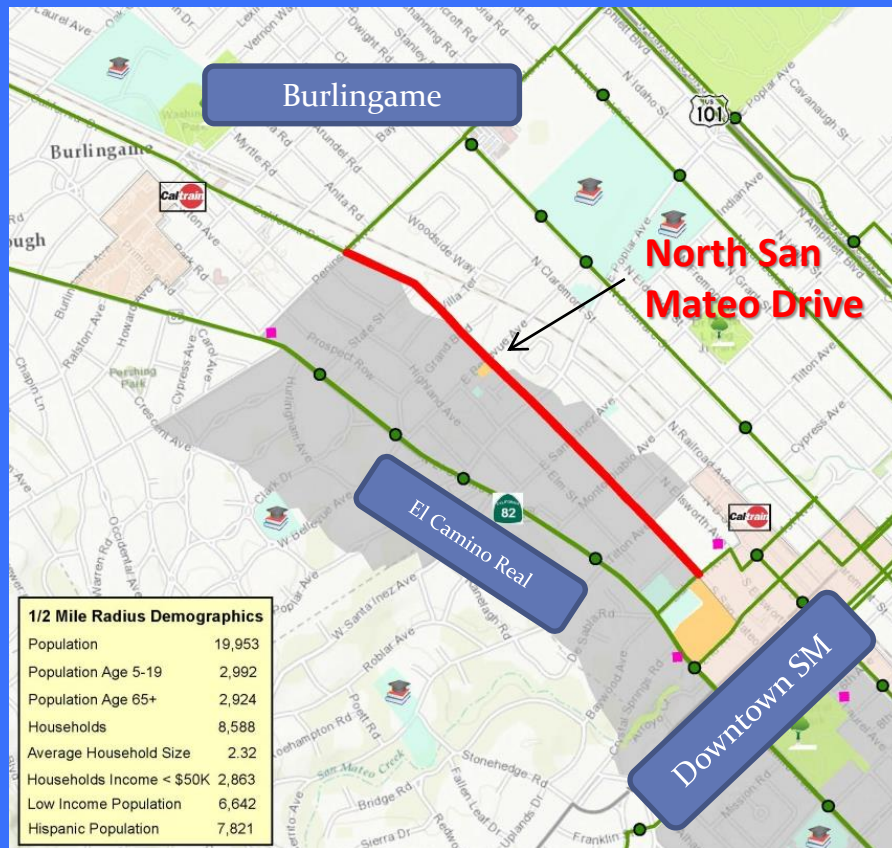


# Project Location

## North San Mateo Drive

(Peninsula Avenue to Baldwin Avenue)

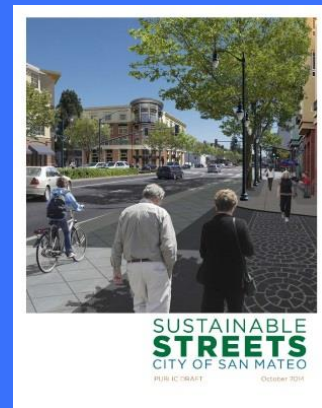
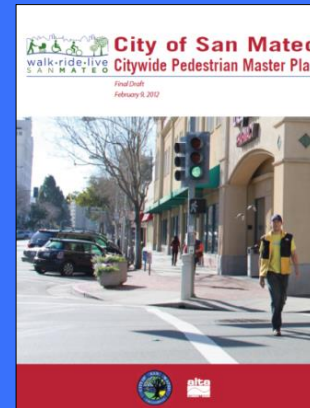
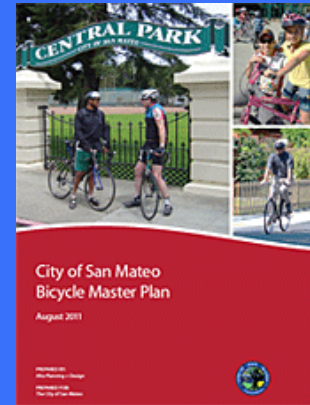
- North-South bicycle corridor
- A thoroughfare that connects major transit hubs: San Mateo-Burlingame Caltrain Stations



# Basis of Design

## Consistent with:

- Vision Zero
- Complete Streets
- City Pedestrian & Bicycle Master Plan
- City Sustainable Streets Master Plan
- County Bicycle Master Plan



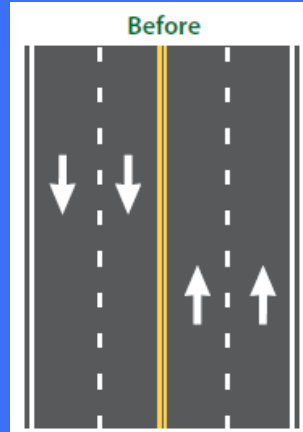
# Roadway Reconfiguration

## Class II bicycle lane implementation – physical constraints

### EXISTING

#### Poplar Ave to Peninsula Ave

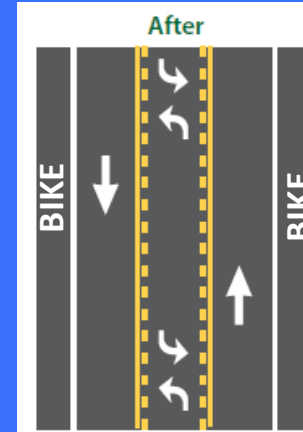
- 4-lane configuration
- 2 travel lanes in each direction



### PROPOSED

#### Poplar Ave to Peninsula Ave

- 3-lane configuration
- 1 travel lane in each direction
- 2-way left turn lane
- Class II bicycle lanes





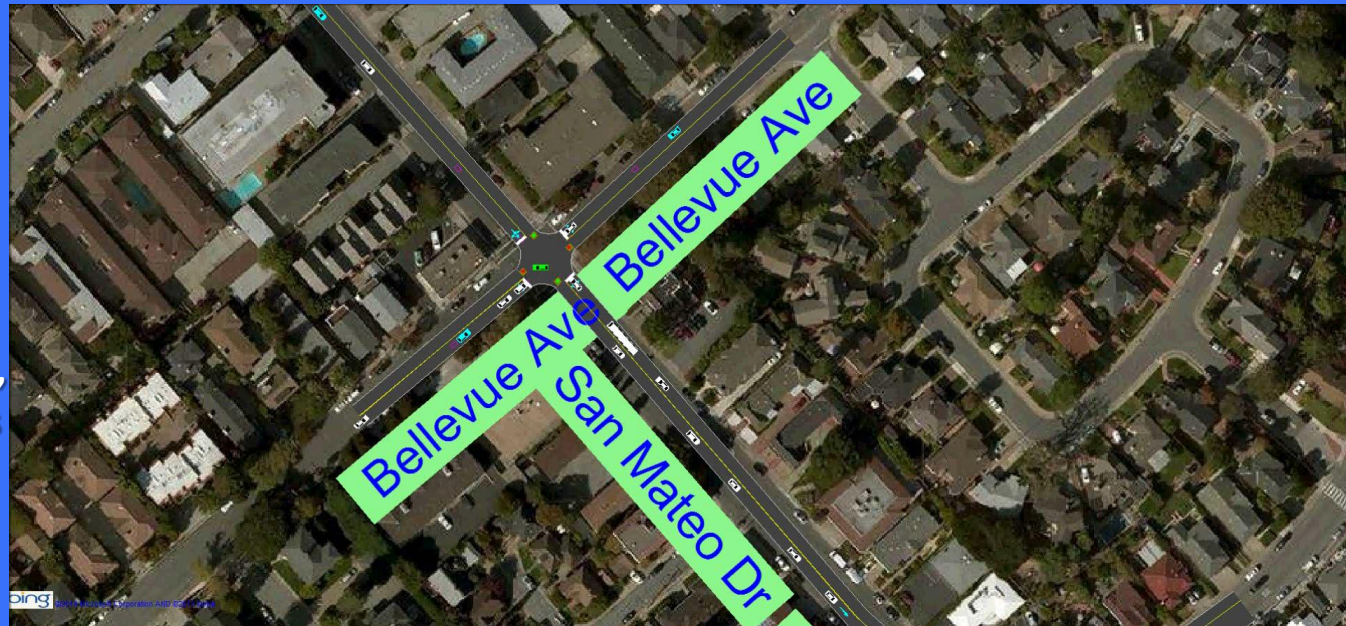
# Road Diet with Existing Stop Control

- Existing 4-way stop at Bellevue Avenue
- Level of Service (LOS) drops from B to D grade



# Recommended Scope

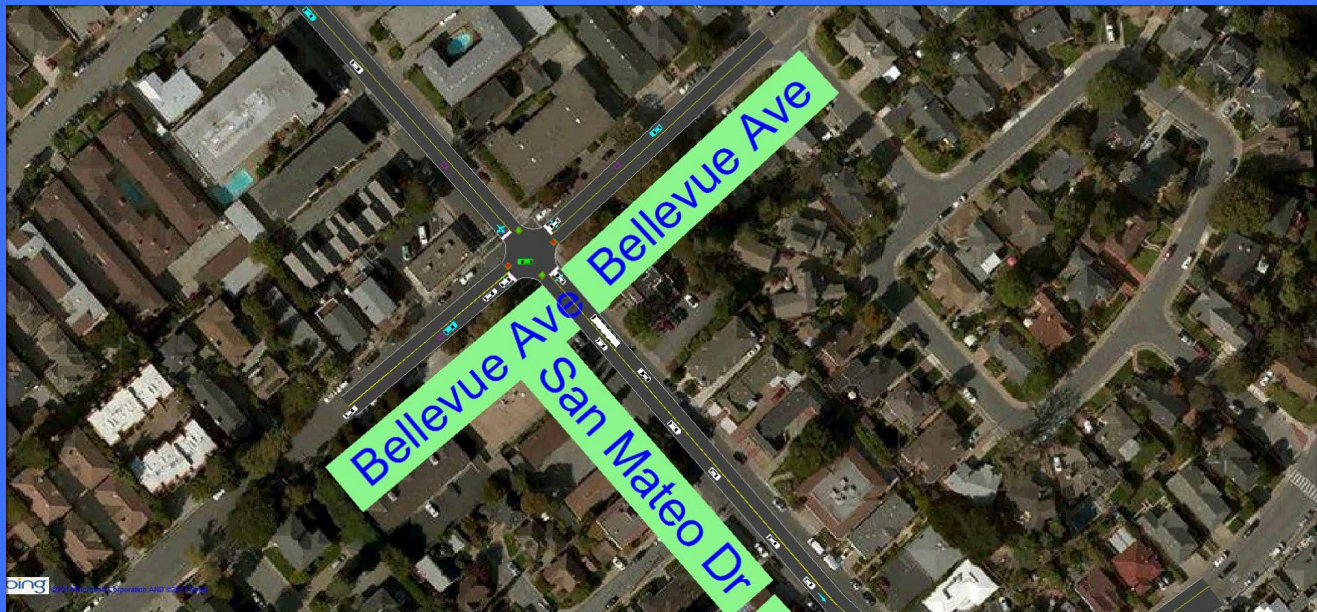
- Road Diet Configuration
  - - bike lanes
- Install/modify traffic signals at 2 intersections
  - Poplar
  - Bellevue
- Limited Curb Extensions with Green Infrastructure, Pedestrian Improvements
- Maintains B grade LOS





# Enhanced Scope

- Road Diet Configuration
  - - bike lanes
- Install/modify traffic signals at 5 intersections
  - Peninsula
  - Monte Diablo
  - Poplar
  - Bellevue
  - Tilton
- Curb Extensions with Green Infrastructure
- Pedestrian & Bike Improvements
- Maintains B grade LOS



# Proposed Improvements

Intersection	Existing	Proposed							
		Enhanced Scope				Recommended Scope			
		Bike	Traffic	Pedestrian		Bike	Traffic	Pedestrian	
	Existing Traffic Signal	Class	New Signals	Green Curb Extensions	Ped heads	Class	New Signals	Curb Extensions	Ped heads
Peninsula Avenue	signal	2	X		x	2			
State Street	side-street stop	2		X		2			
Villa Terrace	side-street stop	2		X		2		X	
Grand Boulevard	side-street stop	2		X		2		X	
Bellevue Avenue	4-way stop	2	X	X	x	2	X	X	X
Williams Place	side-street stop	2		X		2		X	
Poplar Avenue	signal	2	X	X	x	2	X	X	X
Santa Inez Avenue	side-street stop	2		X		2			
Monte Diablo Avenue	side-street stop	2	X	X	x	2		X	
Caltapa Street	side-street stop	2				2			
Tilton Avenue	signal	2	X	X	x	2		X	
St. Matthews Avenue	side-street stop	3				3			
Baldwin Avenue	signal	3				3			



# AM Peak Traffic Analysis

	Existing	Recommended Scope	
Intersection	LOS	LOS	Change in Int. Delay (sec)
Peninsula Avenue	B	B	1.7
State Street	C	D	8.3
Bellevue Avenue	C	A	-13.2
Poplar Avenue	B	B	0.3
Santa Inez Avenue	E	E	-6.2
Monte Diablo Avenue	F	E	-13
Tilton Avenue	B	B	-0.1
Corridor Change in Travel Time		NB = +67 sec, SB = +66 sec	

# PM Peak Traffic Analysis

	Existing	Recommended Scope	
Intersection	LOS	LOS	Change in Int. Delay (sec)
Peninsula Avenue	B	B	2.1
State Street	C	C	5.1
Bellevue Avenue	C	A	-11.4
Poplar Avenue	B	C	5.7
Santa Inez Avenue	E	E	-7.4
Monte Diablo Avenue	E	E	-2.8
Tilton Avenue	B	B	0
Corridor Change in Travel Time		NB = +48 sec, SB = +46 sec	

# Considerations

Enhanced Scope	Recommended Scope	Minimum Scope	Project Cancellation
Pros:			
- Multimodal Traffic Imp.	- Multimodal Traffic Imp.	- No Traffic Impacts	- No Traffic Impacts
- Green Curb Extensions	- Limited Curb Extensions	- No Curb Extensions	- No Budget Impacts
- Enhanced Ped Imp.	- Limited Ped Imp.	- High Visibility Crosswalk	
- Class 2 Bike Lanes	- Class 2 Bike Lanes	- Class 3 Sharrows	
Cons:			
- High Total Cost	- High Total Cost	- Loss of Grant Funds	- Loss of Grant Funds
- Minor Traffic Delays	- Minor Traffic Delays		- No Ped & Bike Imp.



# Budget Considerations

	Recommended Scope
- Grant: TDA	\$400K
- Grant: Measure A	\$200K
- Local:	\$2.4M
Total Budget	\$3M

\* Grant: CMAQ = \$500K

# Budget Summary

	Enhanced Scope	Recommended Scope	Minimum Scope	Project Cancellation
Detailed Engineering	\$400,000	\$400,000	\$300,000	\$200,000
Construction	\$4,200,000	\$2,100,000	\$1,000,000	\$0
Construction Management	\$500,000	\$250,000	\$100,000	\$0
(Contingency Fund)	\$400,000	\$250,000	\$100,000	
Total	\$5,500,000	\$3,000,000	\$1,500,000	\$200,000
Budget	\$3,000,000	\$3,000,000	\$2,400,000	

# Next Steps

## City Council Feedbacks

- Incorporate City Council feedback

## Design

- Finalize design effort by Summer 2018

## Outreach

- Community Outreach in Spring 2018, mailer, web-posting

## Construction

- Fall 2018



# Questions and Comments

## Contact

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