January 31, 2019



Otis Drive

Traffic Calming and Safety Improvements Project



Introductions

City of Alameda team



Parisi Transportation Consulting team



Tonight's Agenda

- Project goals
- Community input to date
- Current safety and traffic concerns
- Traffic calming and safety tools
- Questions
- Break-out session
- Community feedback

Project Goal: Improve Safety for All Users

- Reduce driving speeds;
- Improve safety at pedestrian crossings;
 - Improve bicycle safety;

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Improve transit bus stops and operations; and



Incorporate green infrastructure and stormwater management best practices where possible

Phased Approach

- Limited initial funding (\$500,000 from the 2017-19 Capital Budget)
- Phase 1
 - Solicit community input and explore alternatives,
 - Develop conceptual (30%) plans for the corridor
 - Construct initial (and inexpensive) improvements
- Phase 2
 - Solicit grant funding
 - Complete final design with public input

Project Schedule

- Workshop #1 Ideas, Concepts, Feedback: Tonight
- Workshop #2 Preliminary Recommendations: March 2019
- Transportation Commission: May 2019
- City Council: Summer 2019
- Phase 1 Design: Fall 2019
- Phase 1 Implementation: Spring 2020
- Apply for Phase 2 Funds: 2020

History









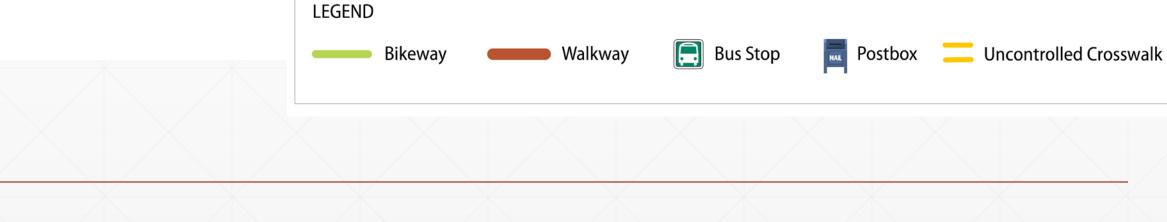
Recent Enhancements

- 2010: "Leading Pedestrian Interval" (LPI) installed at Otis Drive/Willow Street
- 2011: Repaying of Otis Drive, including installation of ADA-compliant curb ramps
- 2015: Added "protected" left-turns (signal arrows) at Otis Drive/Westline Drive
- 2015: Installed accessible pedestrian signal push buttons at Grand/Otis
- 2016: Speed monitoring by community using radars





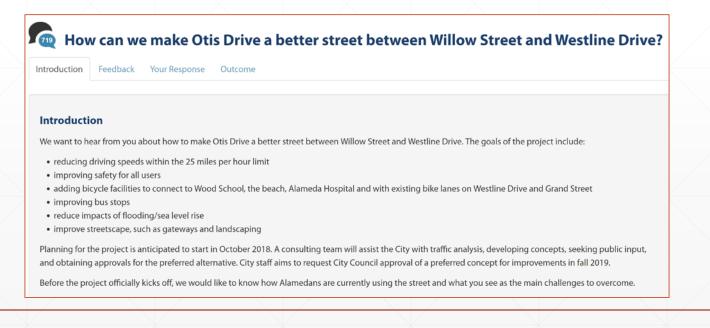




Otis Drive



- Community survey administered by the City of Alameda
- Online survey conducted August 10 to September 19, 2018
- 261 responses received



What is your typical destination when using Otis Drive? (select all that apply)

	Response Percent	Response Count
Home	47.5%	123
Work	20.1%	52
Wood Middle School	12.7%	33
Other school	6.9%	18
Robert Crown Memorial State Beach	31.7%	82
Rittler Park	12.4%	32
Little League fields	11.2%	29
Alameda Hospital	5.8%	15
Shopping	76.4%	198
Visiting friends/relatives/neighbors in the area	25.1%	65
Other	19.7%	51

What to do you find most challenging when using Otis Drive?

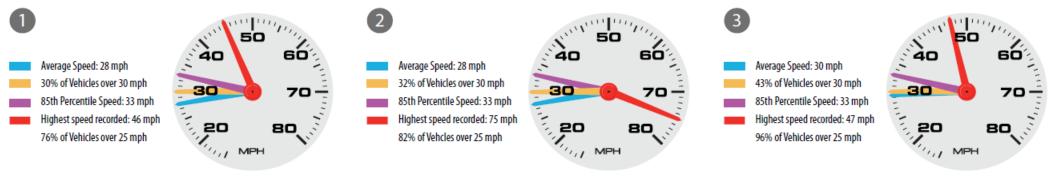
- 1. Traffic speeds
- 2. Safety of people biking (including yourself or others)
- 3. Safety of people walking (including yourself or others)
- 4. Traffic congestion
- 5. Condition of the Roadway
- 6. Appearance
- 7. Noise
- 8. Finding parking

- "Speeding is the biggest issue"
- "People drive on it like it's a freeway"
- "More opportunities for pedestrians to cross safely"
- "My children fear riding (their bikes) to school in Alameda due to cars and reckless drivers"
- "The intersection of Otis and Grand desperately needs a left turn signal and dedicated turning lanes"
- "I would love to see more trees on Otis; it would help with noise"

Speed Limit



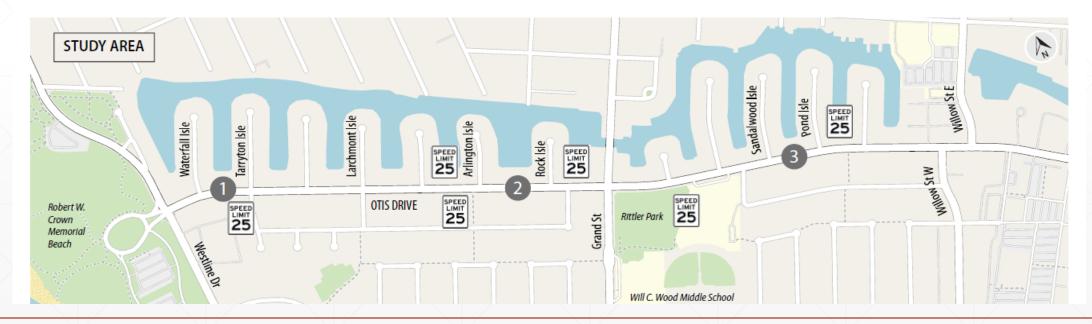
Vehicular Speeds

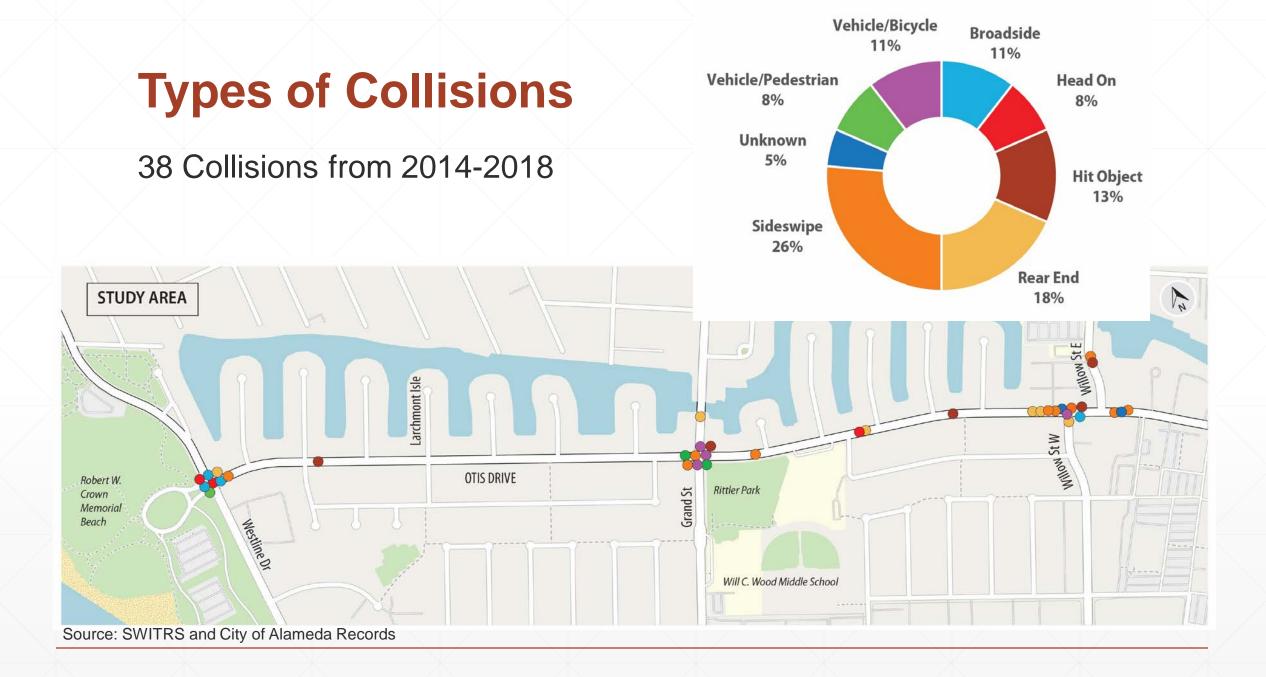


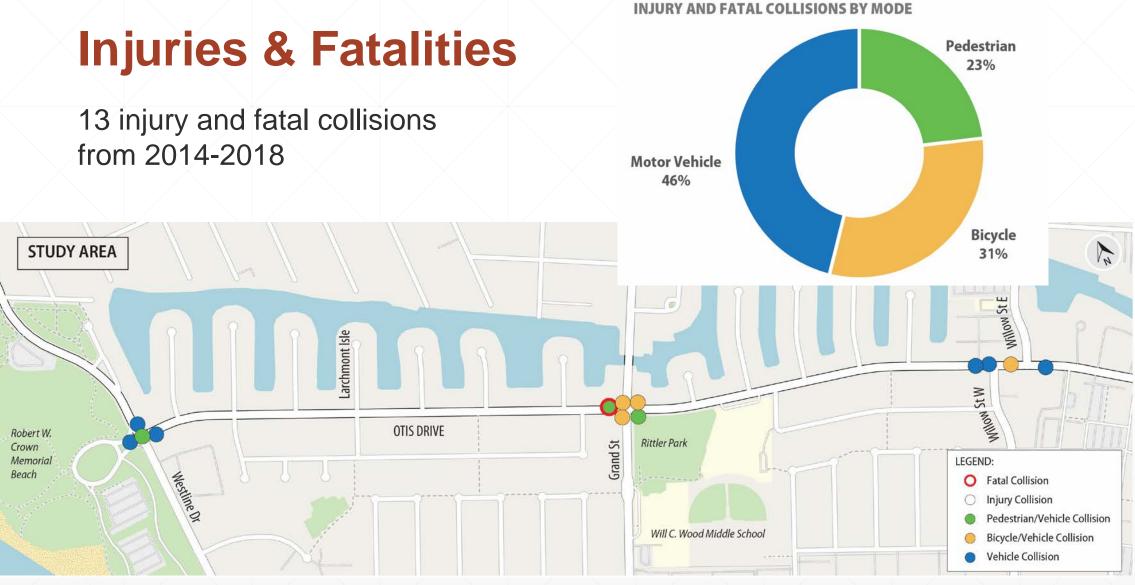
Daily speed data collected on Wednesday, 2/15/2017

Daily speed data collected on Wednesday, 2/15/2017

AM peak hour speed data collected on Tuesday, 3/1/2016







Source: SWITRS and City of Alameda Records

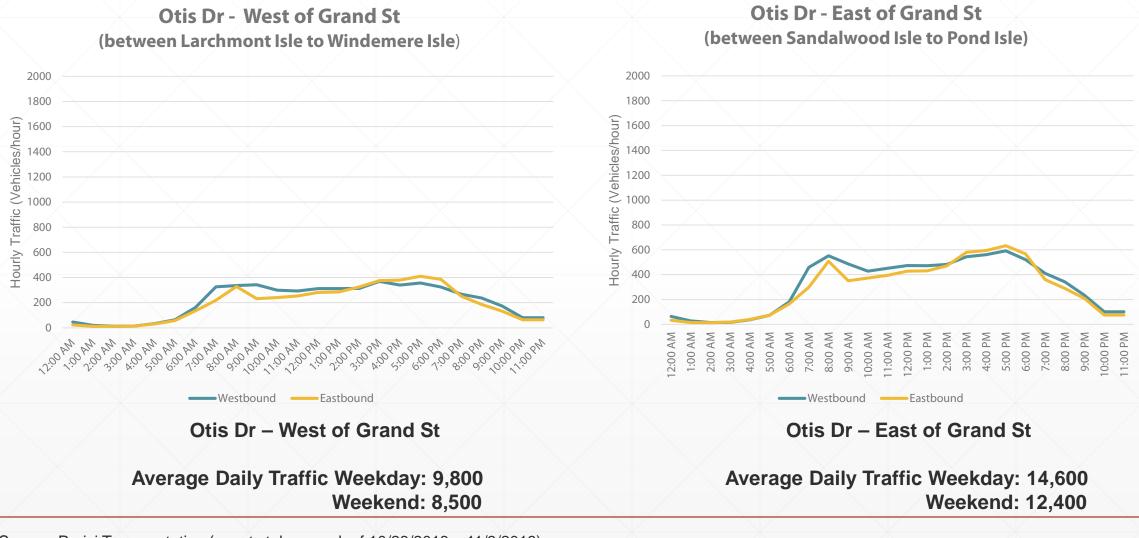
Injuries & Fatalities



Traffic Volumes



Traffic Volumes



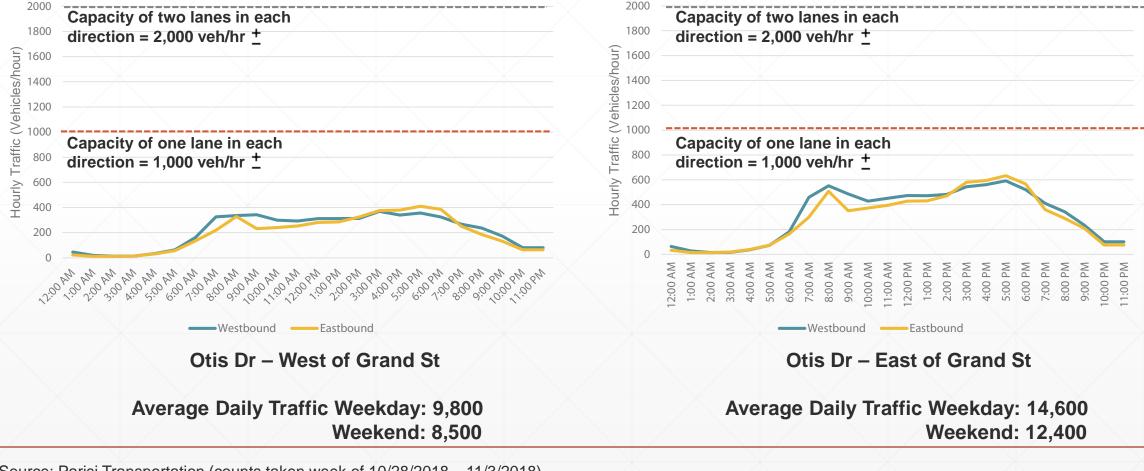
Source: Parisi Transportation (counts taken week of 10/28/2018 - 11/3/2018)

Traffic Volumes

Otis Dr - West of Grand St

(between Larchmont Isle to Windemere Isle)

Otis Dr - East of Grand St (between Sandalwood Isle to Pond Isle)



Source: Parisi Transportation (counts taken week of 10/28/2018 - 11/3/2018)

Bus Stops



Bus Stops





Source: AC Transit, 2017

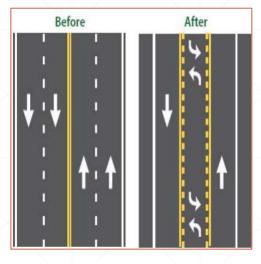
Bus Stops

AC Transit Major Corridors Study recommendations for Otis Drive:

- Smarter traffic signals that are coordinated and give buses more green lights
- Longer bus stops and wider sidewalks make getting on and off the bus faster and safer
- Better bus stop placement for a quicker ride



Traffic Calming & Safety Tools















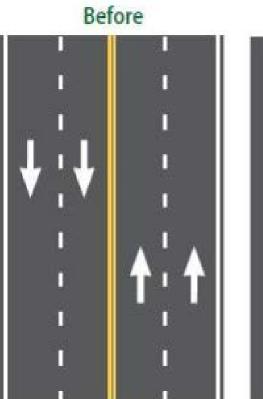


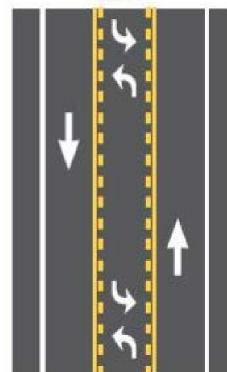
Traffic Calming & Safety Tools

- Physical measures to improve safety
- Encourage more responsible driving and appropriate travel speeds
- Improve visibility and safety of pedestrian crossings
- Increase pedestrian and bicycle comfort

Advantages of a 3-Lane Street

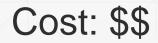
After







Fernside Boulevard



Advantages of a 3-Lane Street

According to the Federal Highway Administration:

- Reduces collisions by at least 19%
- Decreases speeds by at least 3 mph
- Results in less severe collisions
- Provides fewer vehicle lanes to cross
- Enables better visibility for pedestrians
- Allows space for bicyclists
- Provides smoother travel flow

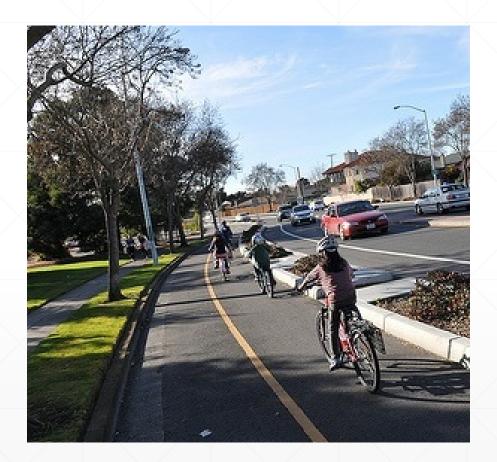
Buffered Bicycle Lanes



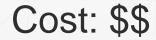




Physically Separated Bicycle Facility





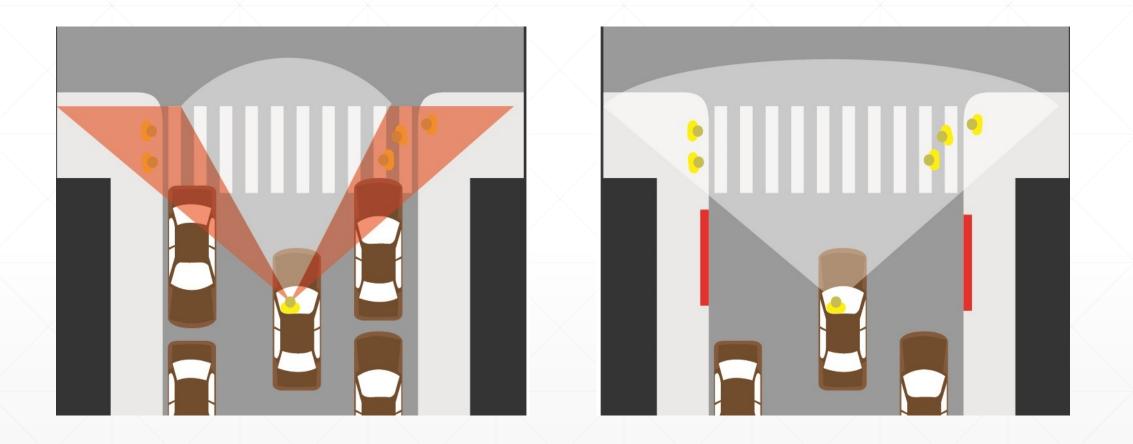


High-Visibility Crosswalks





Improved Sight Lines

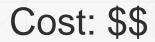




Flashing Beacons

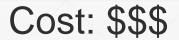






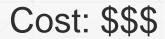
Turn Lane & Traffic Signal Enhancements





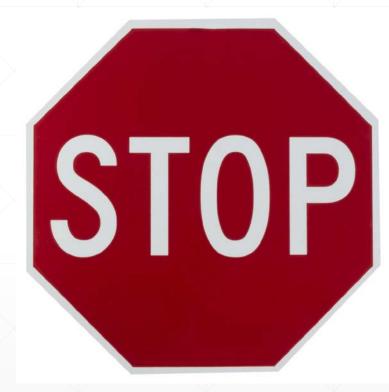
Modern Roundabout





Why Not Stop Signs?

- Stop signs don't necessarily slow speeds
- Unnecessary stop signs decrease driver compliance



What About Parking?

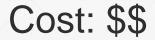
Limited parking prohibitions to be considered to improve safety at specific spot locations, such as increasing visibility at crosswalks or corners at intersections



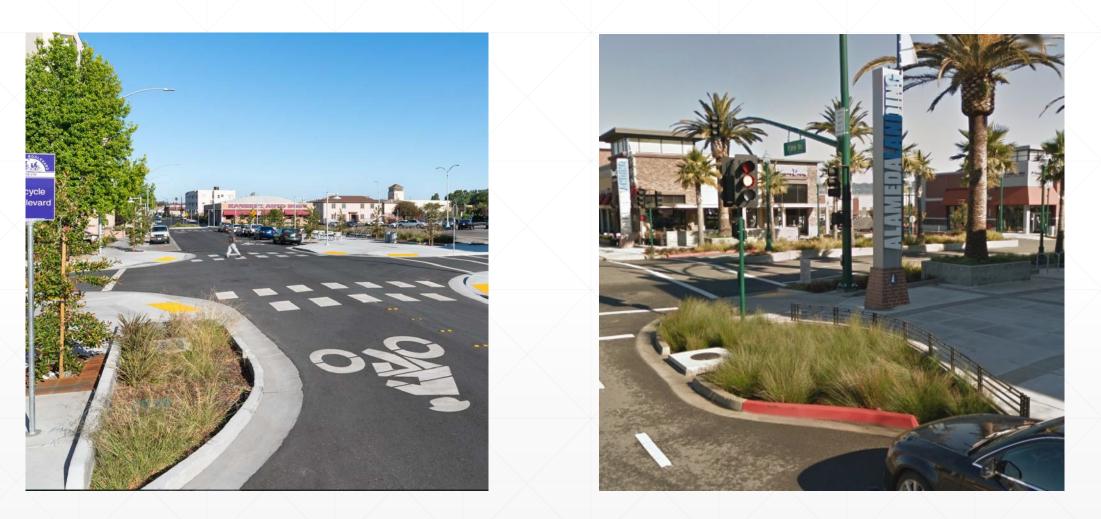
Landscaped Medians & Pedestrian Refuge Islands







Bulb-outs & Rain Gardens



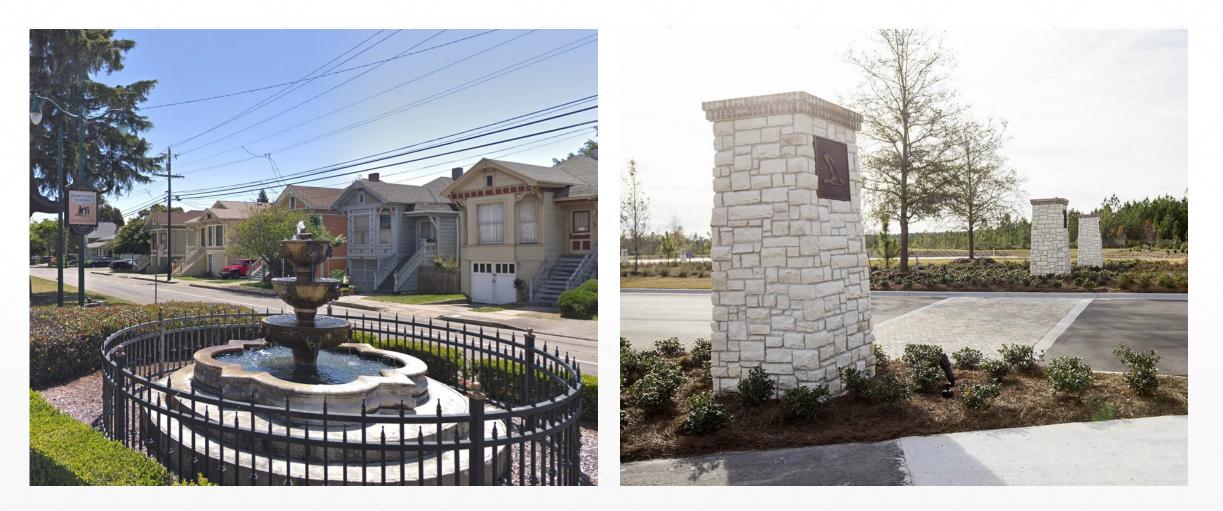
Cost: \$\$

Low-cost Bulb-outs



Cost: \$

Gateway Treatments



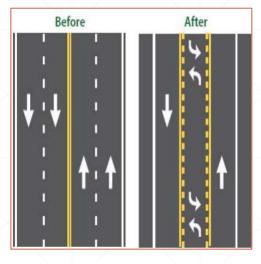
Cost: \$\$

Bus Stop Enhancements



Cost: \$\$

Traffic Calming & Safety Tools

















Questions?

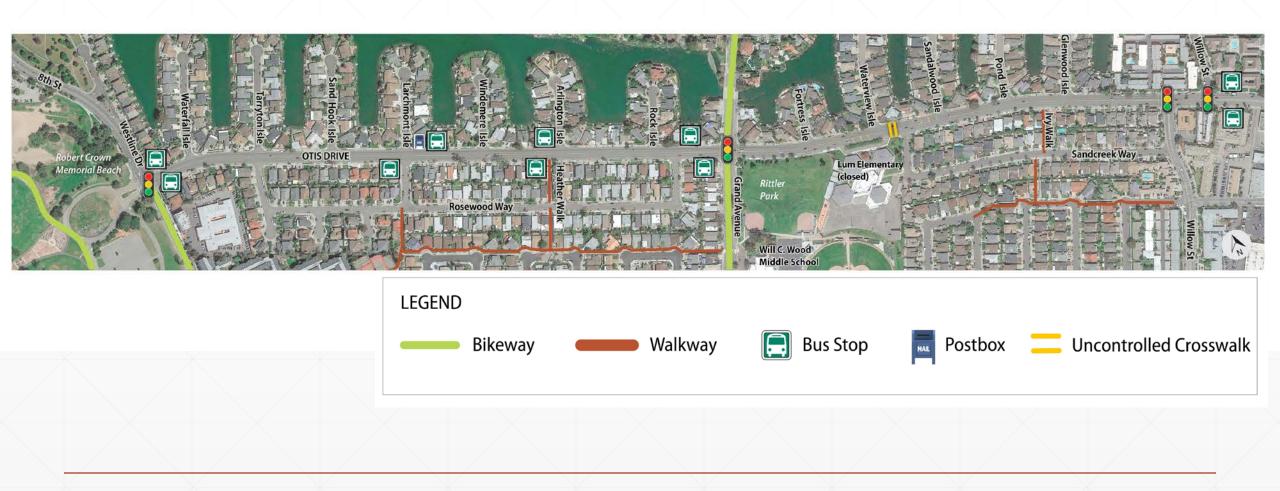


Break-out Session

- Break out into 6 groups
- Discuss issues and toolkit options for about 20 minutes
- Come back to present findings to the group



Community Input



Next Steps

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