# Otis Drive Traffic Calming and Safety Improvements Project







March 20, 2019

# **Agenda**

- Project goal and objectives
- Existing conditions
- Community input to date
- Traffic calming and safety tools
- Preliminary improvement concepts



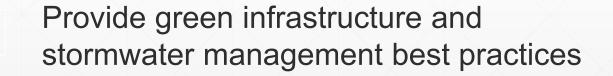
# **Project Goal: Improve Safety for All Users**







Improve bus stops and operations; and



#### **Phased Approach**

- Limited initial funding (\$500,000 from the 2017-19 Capital Budget)
- Short-term:
  - Solicit community input and explore alternatives
  - Develop plans for the corridor
  - Construct initial (and inexpensive) improvements
- Long-term:
  - Solicit grant funding
  - Complete final design with public input

# **Project Schedule**

- Workshop #1 Ideas, Concepts: January 31
- Transportation Commission (Information): February 27
- Workshop #2 Preliminary Recommendations: March 20
- Transportation Commission (Concept Approval): May 22
- City Council: Summer 2019
- Short-term Design: Fall 2019
- Short-term Implementation: Spring 2020

# **History**







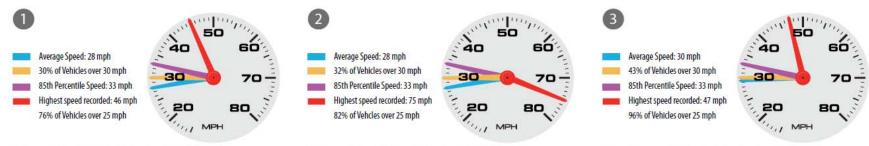


#### **Recent Enhancements**

- 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



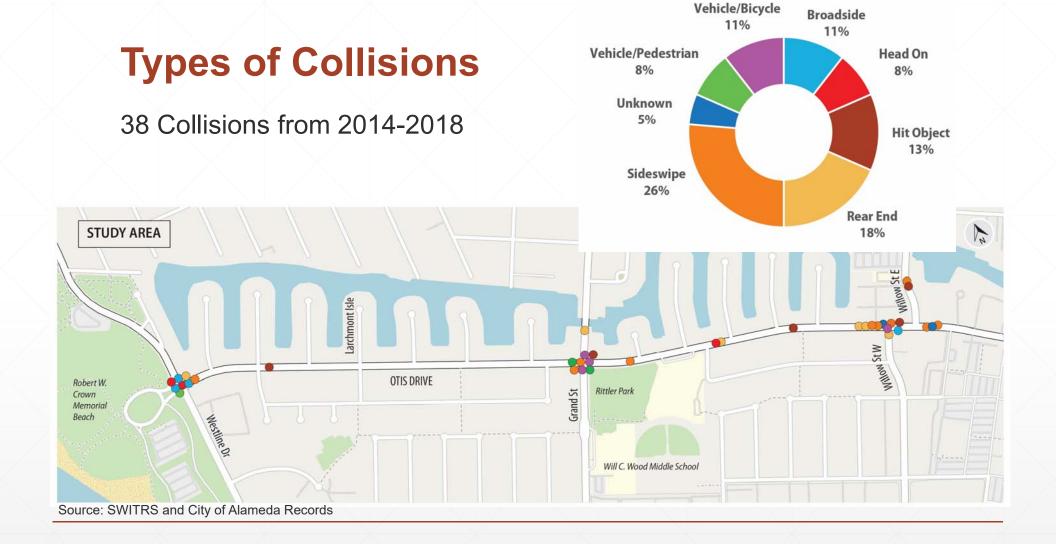
# **Vehicular Speeds**

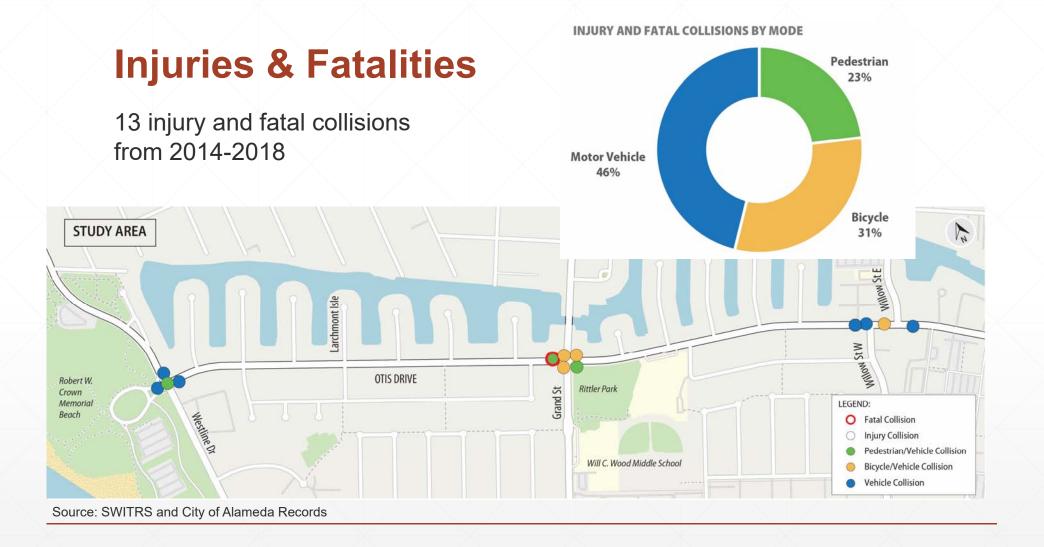


Daily speed data collected on Wednesday, 2/15/2017 Daily speed data collected on Wednesday, 2/15/2017

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

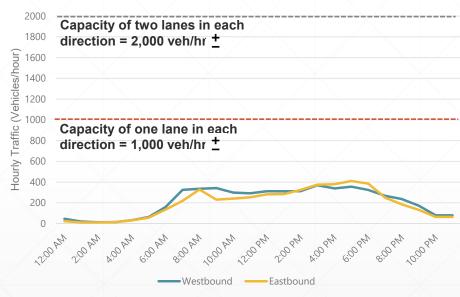






#### **Traffic Volumes**

Otis Dr - West of Grand St (between Larchmont Isle to Windemere Isle)

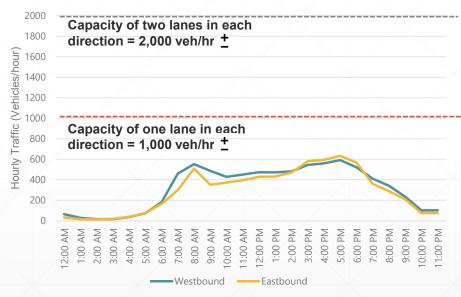


Otis Dr - West of Grand St

Average Daily Traffic Weekday: 9,800

Weekend: 8,500

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



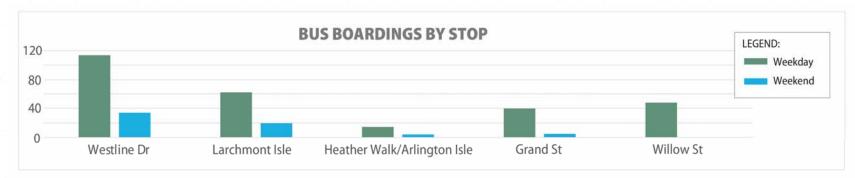
Otis Dr - East of Grand St

Average Daily Traffic Weekday: 14,600

Weekend: 12,400

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

# **Bus Stops**





Source: AC Transit, 2017

# **Community Survey**

- Community survey administered by the City of Alameda
- Online survey conducted August 10 to September 19, 2018
- Almost 600 responses received

#### 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



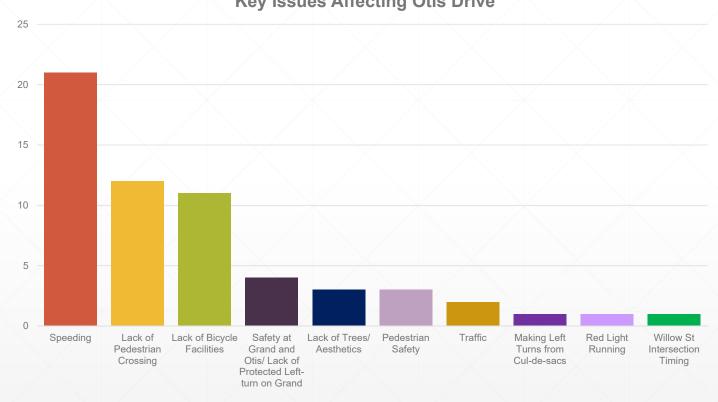


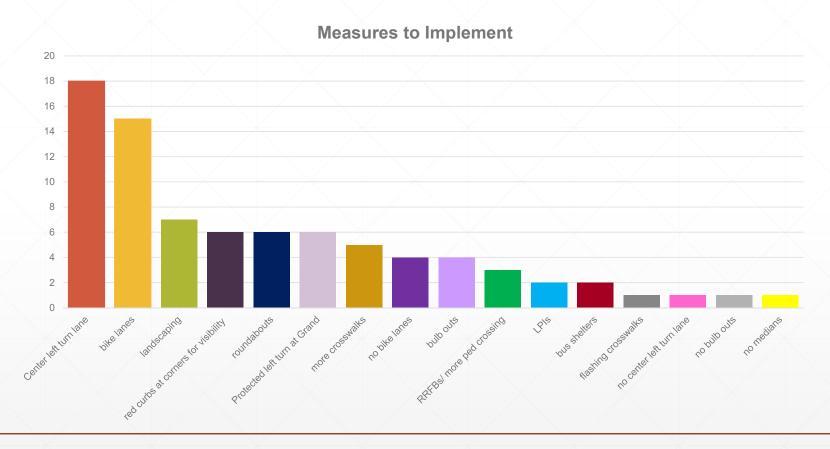






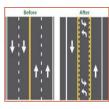






# **Traffic Calming & Safety Tools**

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













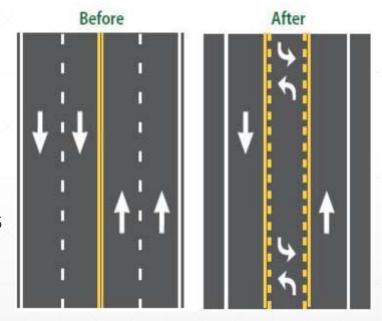




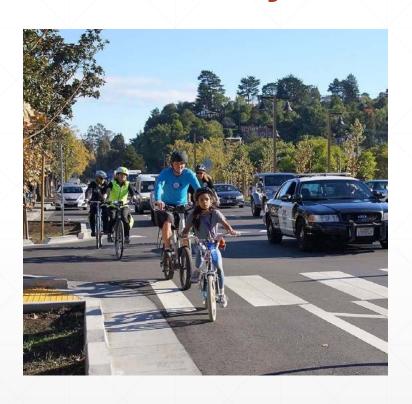
#### **Advantages of a 3-Lane Street**

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

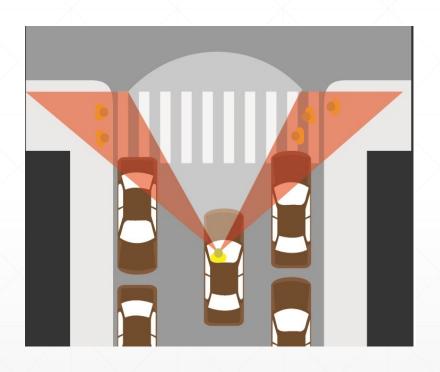


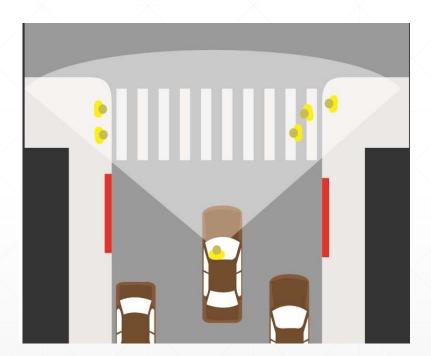
# **Buffered Bicycle Lanes**





# **Improved Sight Lines**





Cost: \$

# **High-Visibility Crosswalks w/Beacons**





Cost: \$\$

# **Turn Lane & Traffic Signal Enhancements**





Cost: \$\$\$

# **Bulb-outs**





Cost: \$\$

#### **Low-cost Bulb-outs**





#### **Modern Roundabouts**



Cost: \$\$\$

#### **Street Trees**



Melaleuca Quinquenervia



Hymenosporum Flavum



Metrosideros Excelsa

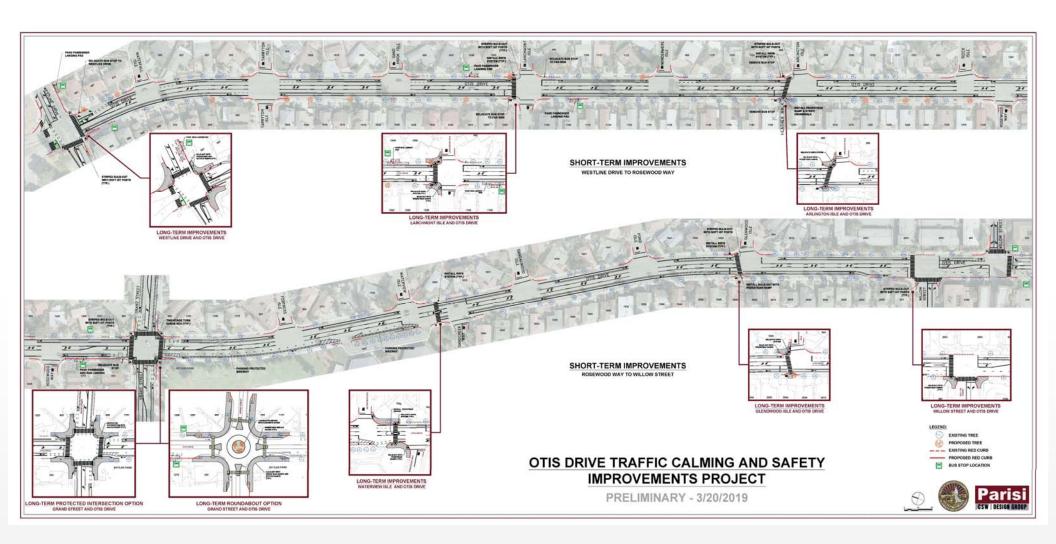
#### **Street Trees**



Corymbia Ficifolia



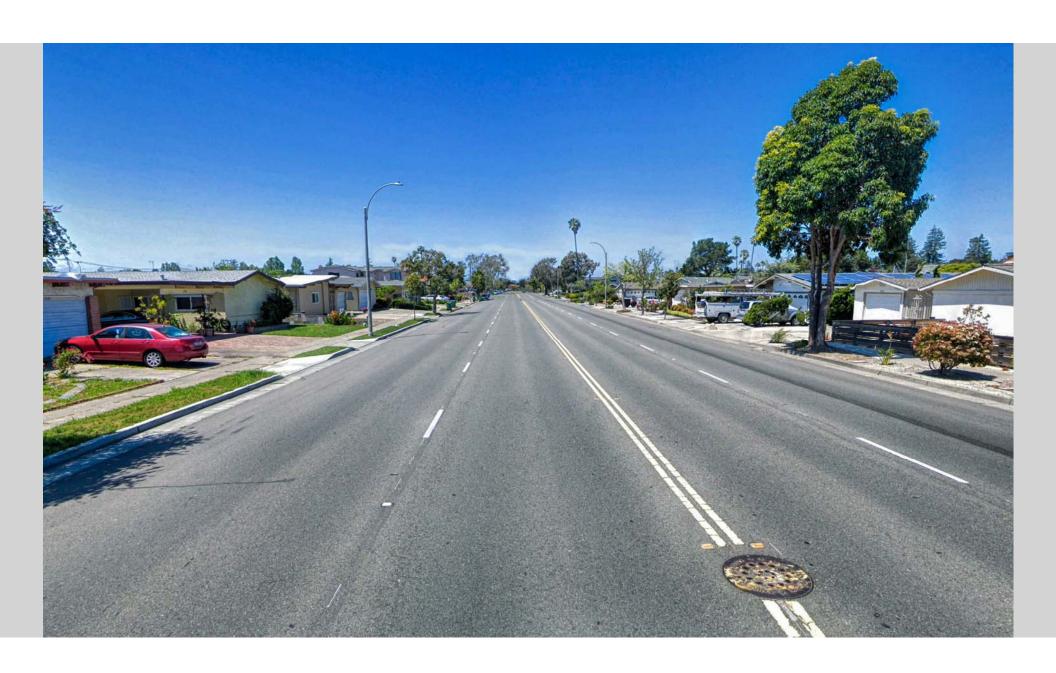
Lophostemon Confertus



#### 4-Lane to 3-Lane Conversion



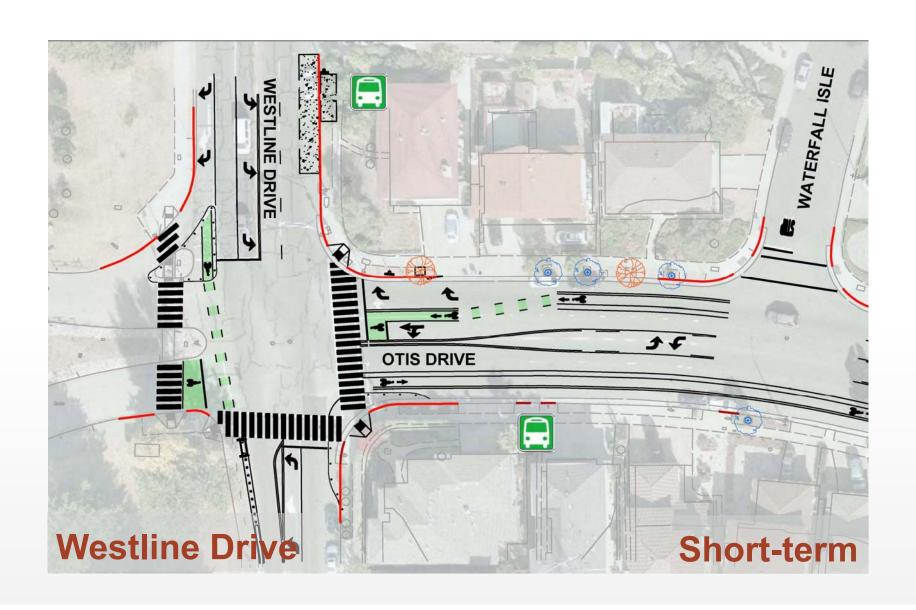


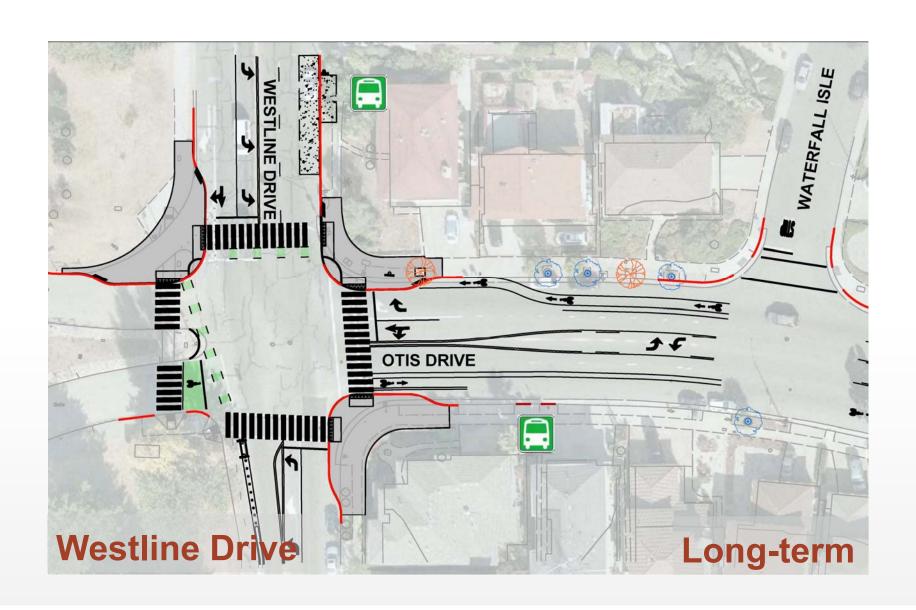




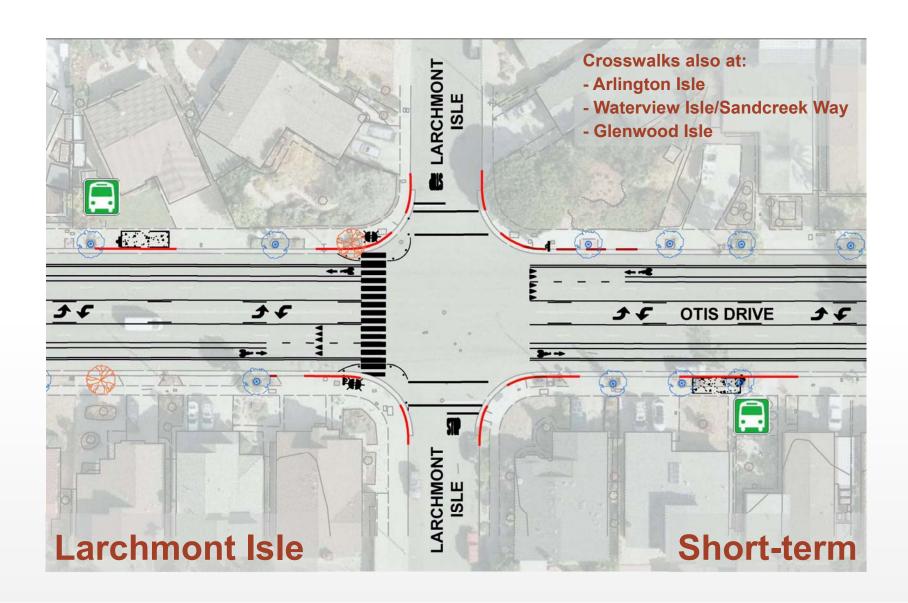


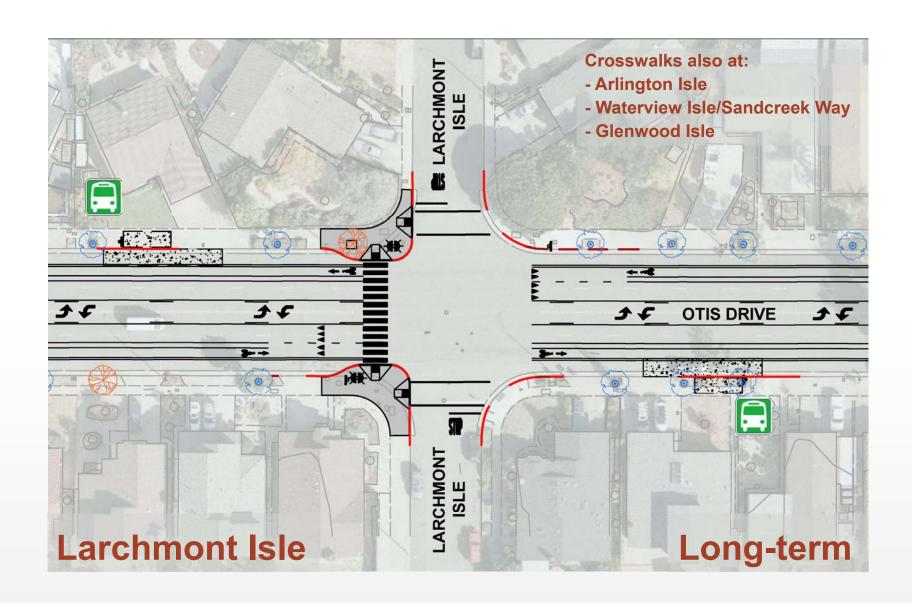


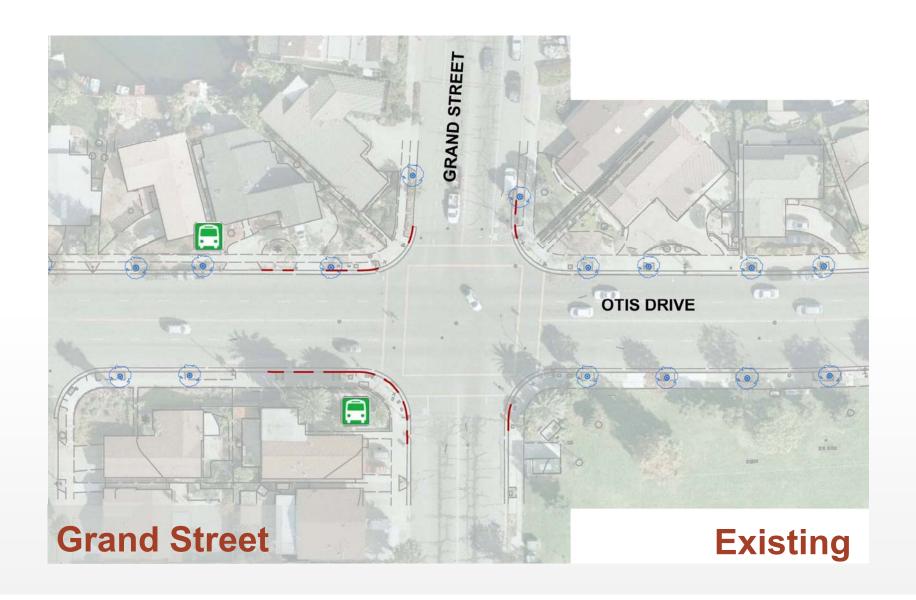


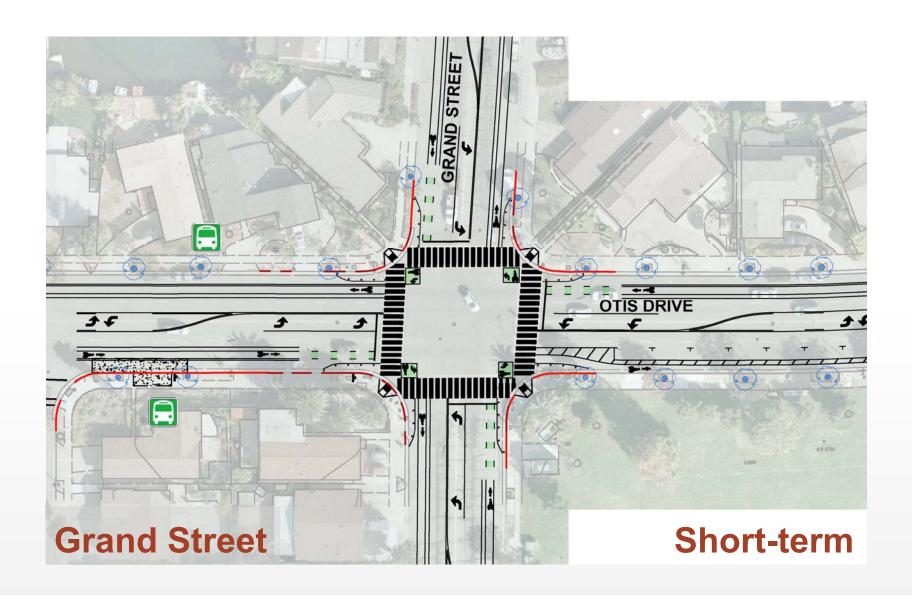


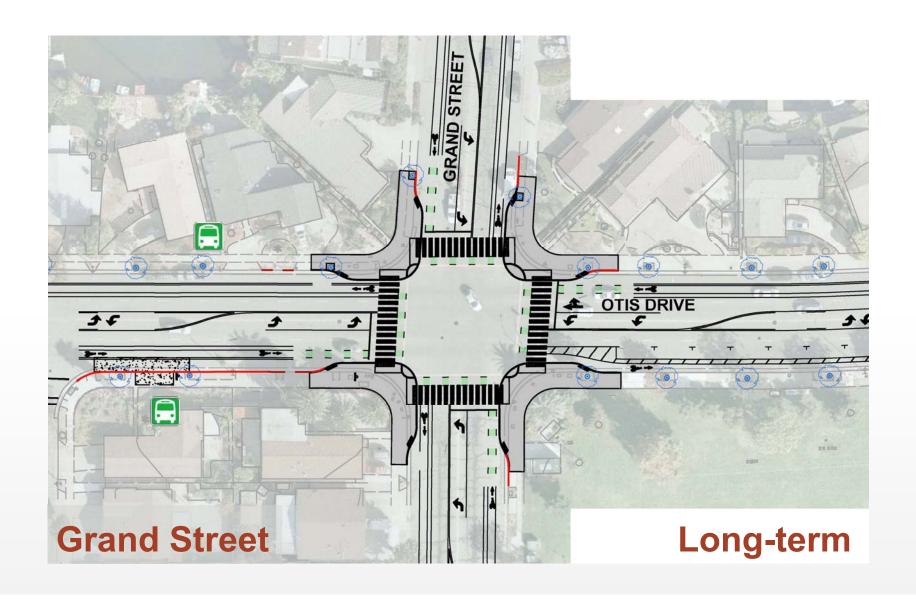


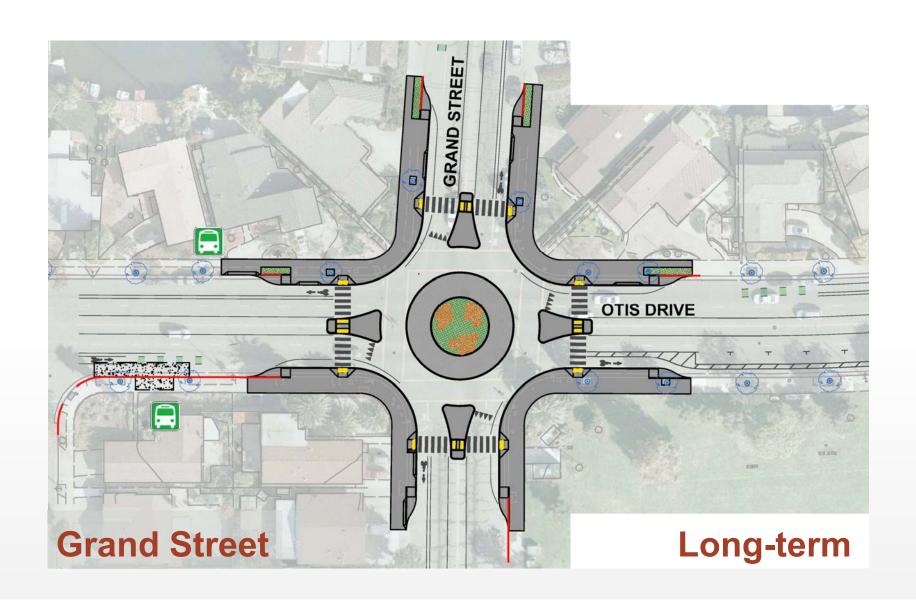


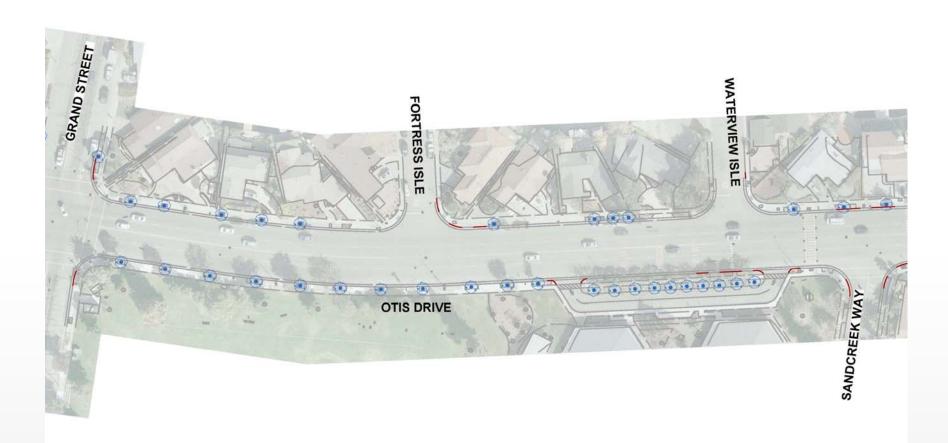






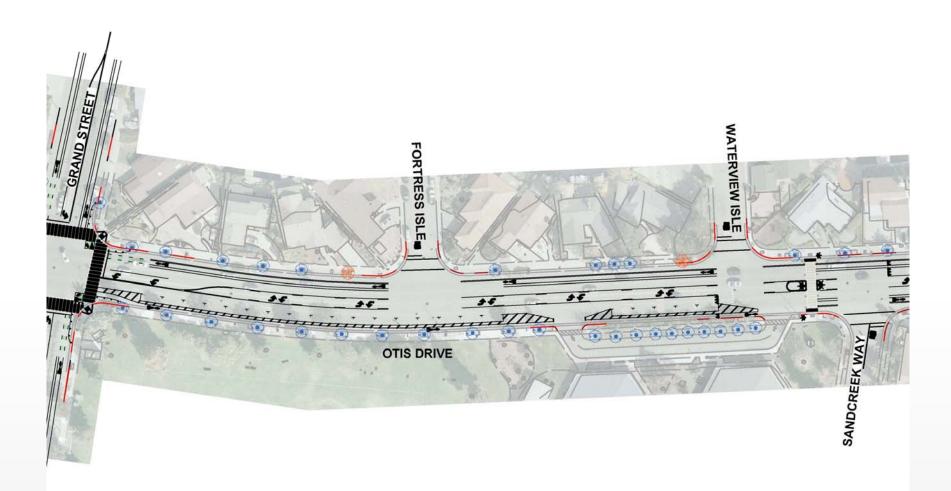






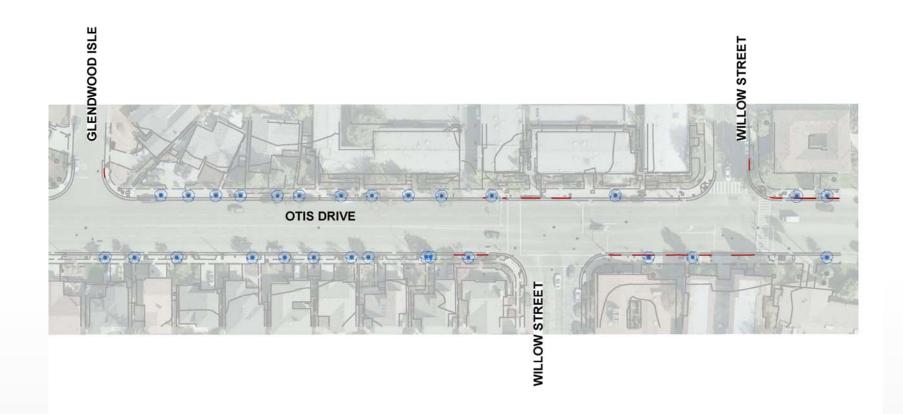
**Ritter Park Frontage** 

**Existing** 



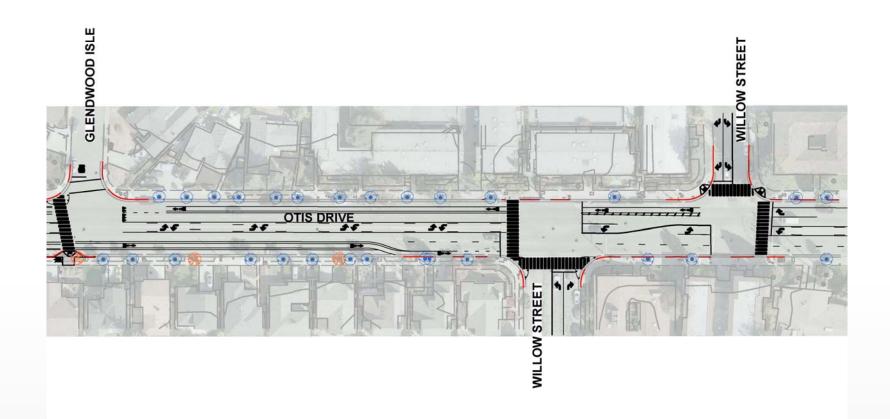
Ritter Park Frontage

**Short-term & Long-term** 



**Willow Street** 

**Existing** 



**Willow Street** 

**Short-term & Long-term** 

## **Next Steps**

- Transportation Commission: May 22, 2019
- City Council: Summer 2019
- Short-term Design: Fall 2019
- Short-term Implementation: Spring 2020

## **Break-out Session**

