

Community Meeting

US 101/Peninsula Avenue

Interchange Project



MAY 17, 2017



Department of Public Works
Stewards of the Infrastructure and Environment



Agenda

Open House	6:30 – 7:00
Presentation	7:00 – 7:30
Q&A	7:30 – 8:00
Resume Open House	8:00 – 8:30

US 101 / Peninsula Avenue Interchange Project



Project Stakeholders

- California Department of Transportation (Caltrans)
- San Mateo County Transportation Authority (SMCTA)
- City of San Mateo
- City of Burlingame
- Local Residents and Business Communities

US 101 / Peninsula Avenue Interchange Project



Goals For Tonight's Meeting

- Describe the Benefits of the Project
- Explain why the Project is Needed
- Describe Existing Condition and Project Features
- Answer your Questions

Project Background

2004 - 2007

In

04 - SM - 101 - 14.5/14.9
EA 04-4H460
Project ID: 0413000210
April 2015

rridor Study

Project Study Report-Project Development Support (PSR-PDS)

To

2009 - 2012

C

Request Programming for Capital Support and Approval for Project to Proceed to the Project Approval and Environmental Document (PA&ED) Phase

On Route US 101

Between 0.7 mile north of the Third Avenue OC in San Mateo (PM 14.5)

And 1.6 miles south of the Broadway Avenue OC in Burlingame (PM 14.9)

APPROVAL RECOMMENDED:


BRAD UNDERWOOD, PUBLIC WORKS DIRECTOR
CITY OF SAN MATEO
Accepts Risks Identified in this PSR-PDS and Attached Risk Register

2014 - 2015

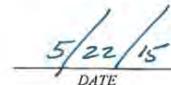
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APPROVAL RECOMMENDED:


RICHELLE PEREZ, CALTRANS PROJECT MANAGER

APPROVED:


BIJAN SARTIPI, DISTRICT DIRECTOR

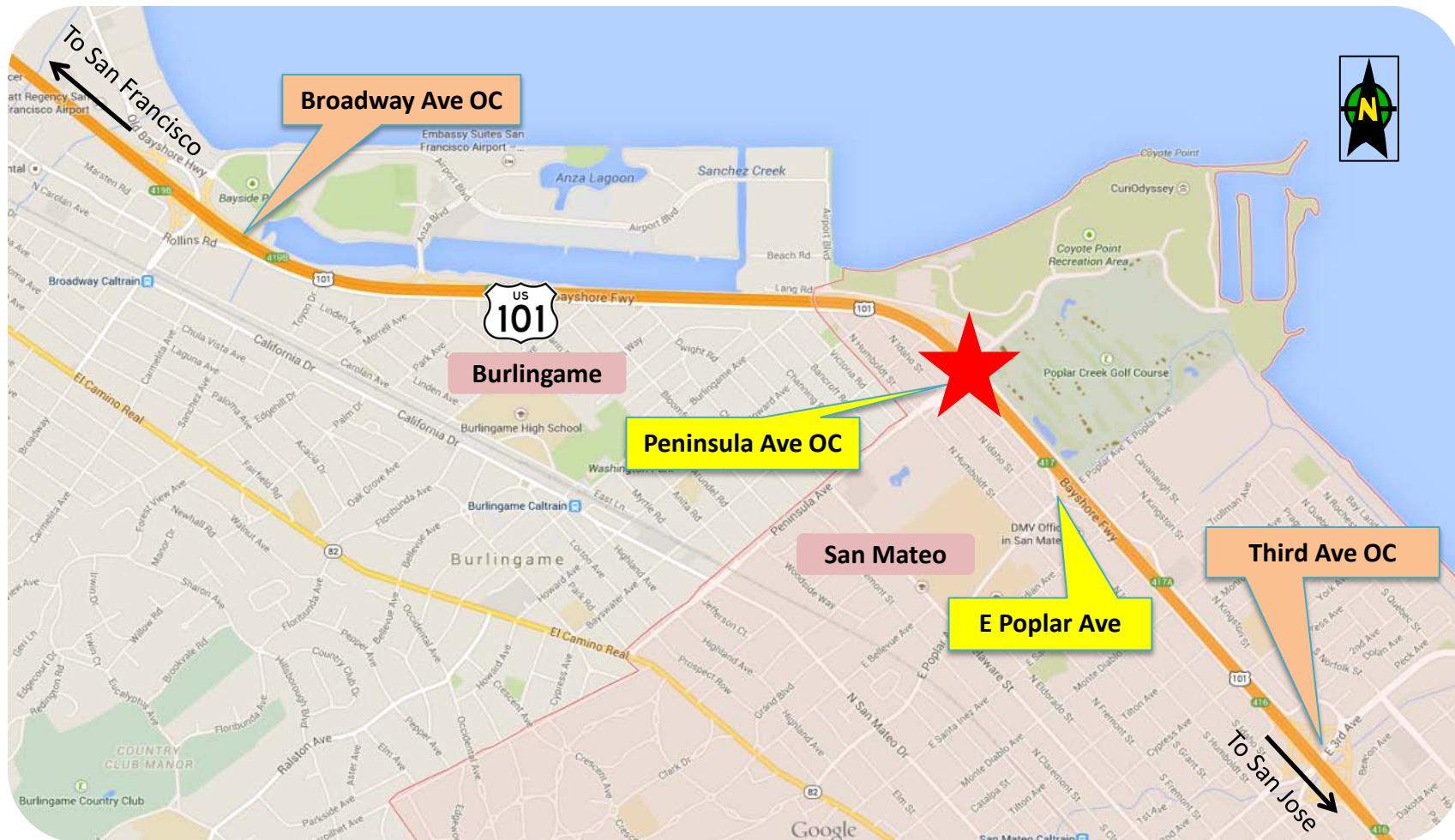

5/22/15
DATE

(AECOM)



US 101 / Peninsula Avenue Interchange Project

Project Location Map



US 101 / Peninsula Avenue Interchange Project



Why a Long Term Solution at Peninsula?

Project Need:

- **Safety: Nonstandard ramp geometry at Poplar Avenue**
- **Provide Standard Interchange Configuration: Consolidate NB & SB ramps at Airport & Peninsula**
- **Peninsula is better suited to handle future traffic from/to the freeway**
 - 5-foot shoulders & no street parking
 - No driveways
 - Two lanes in each direction



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Benefits of the Project

Enhance Safety

- Remove Traffic from a 2-lane, residential street (Poplar)
- Provide Freeway Access from a 4-lane arterial (Peninsula, east of Humboldt)
- Remove Nonstandard ramps at Poplar
- Provide Safe Route for Peds/Bikes over US 101

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Key Design Elements

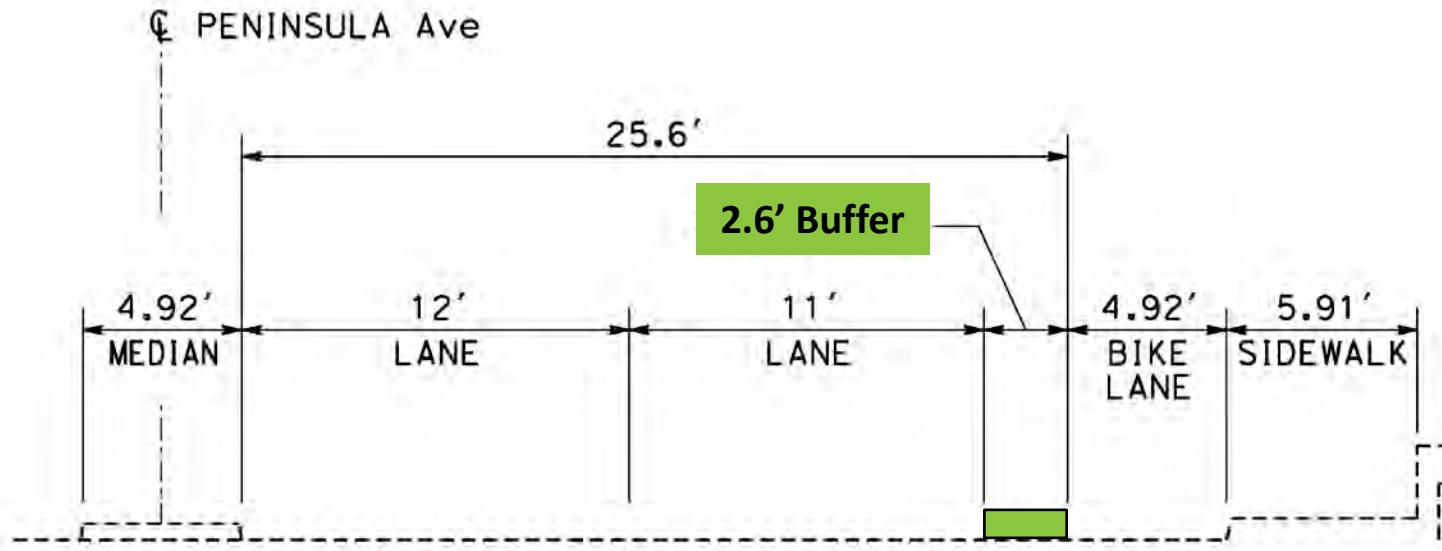
- Enhance Alternatives from Planning Phase
- Local Street Improvements
- Complete Street Design Features
 - Pedestrian and Bicycle Safe Access
 - Sidewalk Access to meet ADA Compliance
 - High Visibility Crosswalk (Ped & Bike)
 - Bulb Outs & Curb Extension
 - On Street Parking (side street)



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Improve Ped / Bike Access



TYPICAL SECTION - ALTERNATIVES 1 & 2
(Looking East)

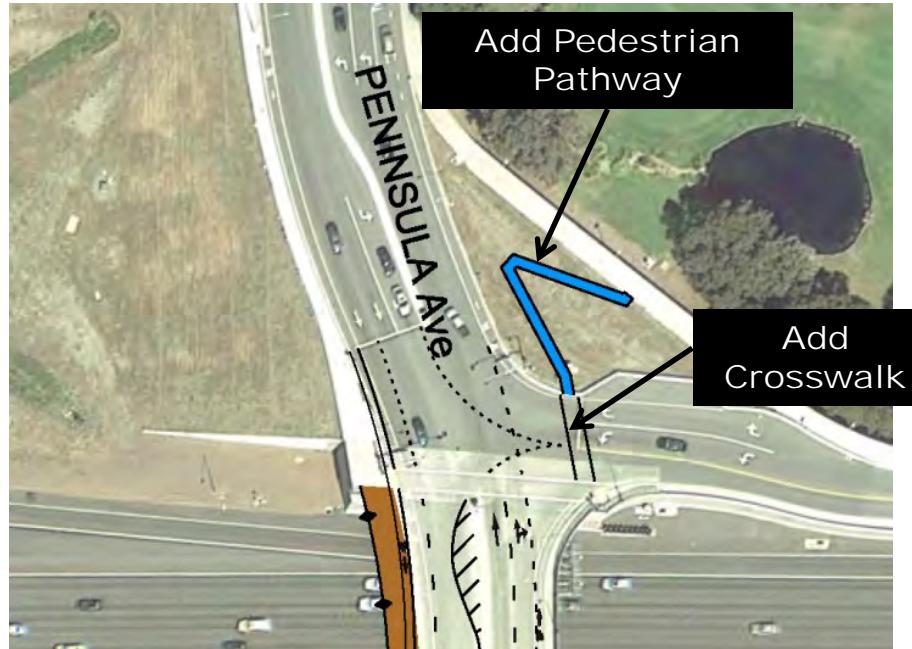
Bike Lane Improvement

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Improve Ped / Bike Access

Pedestrian/Traffic Conflict



No Direct Access from Bayshore to Sidewalk next to Golf Course

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Accident Data

Data from April 1, 2009 to December 31, 2016



Type of Collision (Total #):

Hit Object (6)	●	Sideswipe (4)	●	Vehicle-Pedestrian (3)	●
Head-On (3)	●	Broadside (8)	●		
Rear-End (9)	●	Unknown (1)	●		

Note:

1. Each Dot Represents One Accident Involving One or More Vehicles or Pedestrian
2. Each Dot Does Not Represent the Precise Location of the Accident.

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Benefits of the Project

Enhance Mobility

- Improve Access to/from US 101
(for San Mateo and Burlingame residents)
- Improve Local Street Circulation
- Accommodate Future Traffic Volumes
- Anticipate to Minimize Cut Through Traffic

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Humboldt/Poplar to US 101 On-Ramp

(5:30 pm, Wednesday, May 10, 2017)

Length of time to travel 800 feet
(0.15 miles) = **4 mins 10 sec**

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Current Traffic Condition

Traffic Congestion & Queue Backup



Humboldt St / E Poplar Ave
Intersection

8:30 am on Wednesday, April 26, 2017

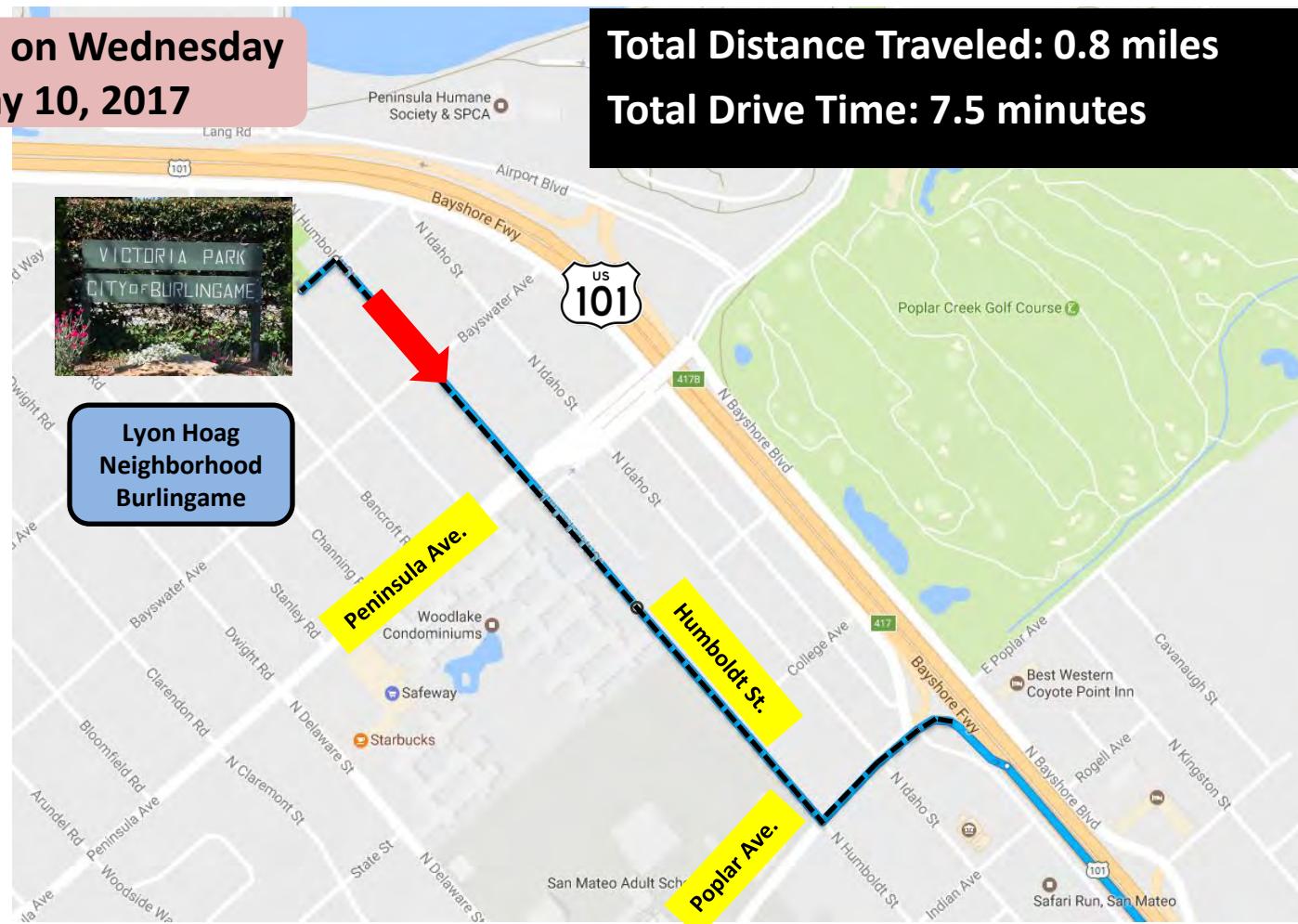


E Poplar Ave Traffic to US 101
8:30 am on Wednesday, April 26,
2017

From Victoria Park To US 101 SB (to San Jose) Via Poplar Ave (without Project)

5:00 pm on Wednesday
May 10, 2017

Total Distance Traveled: 0.8 miles
Total Drive Time: 7.5 minutes



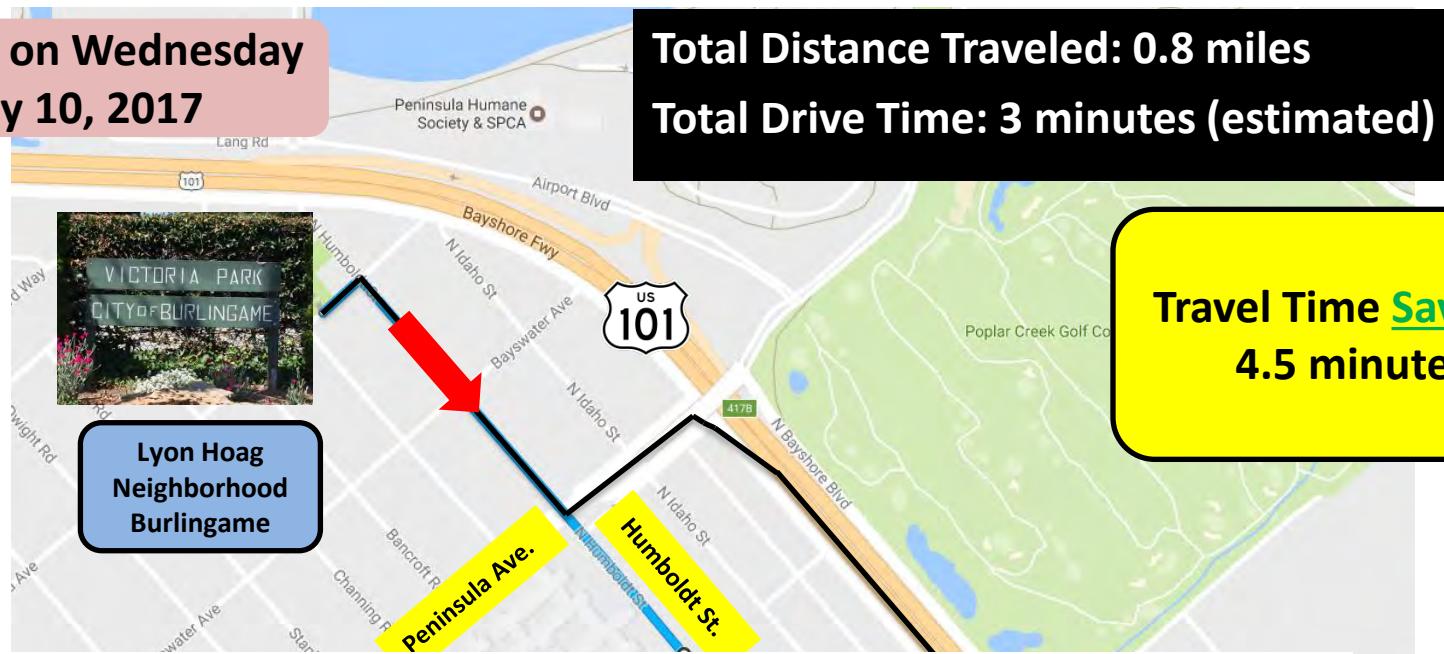
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From Victoria Park To US 101 SB (to San Jose) Via Peninsula Ave (with Project)

5:00 pm on Wednesday
May 10, 2017

Total Distance Traveled: 0.8 miles
Total Drive Time: 3 minutes (estimated)



In summary, Project benefits the driver and the local community!

- ✓ Reduces Travel Time
- ✓ Removes Traffic from Residential Streets:
 - Poplar Ave
 - Humboldt St

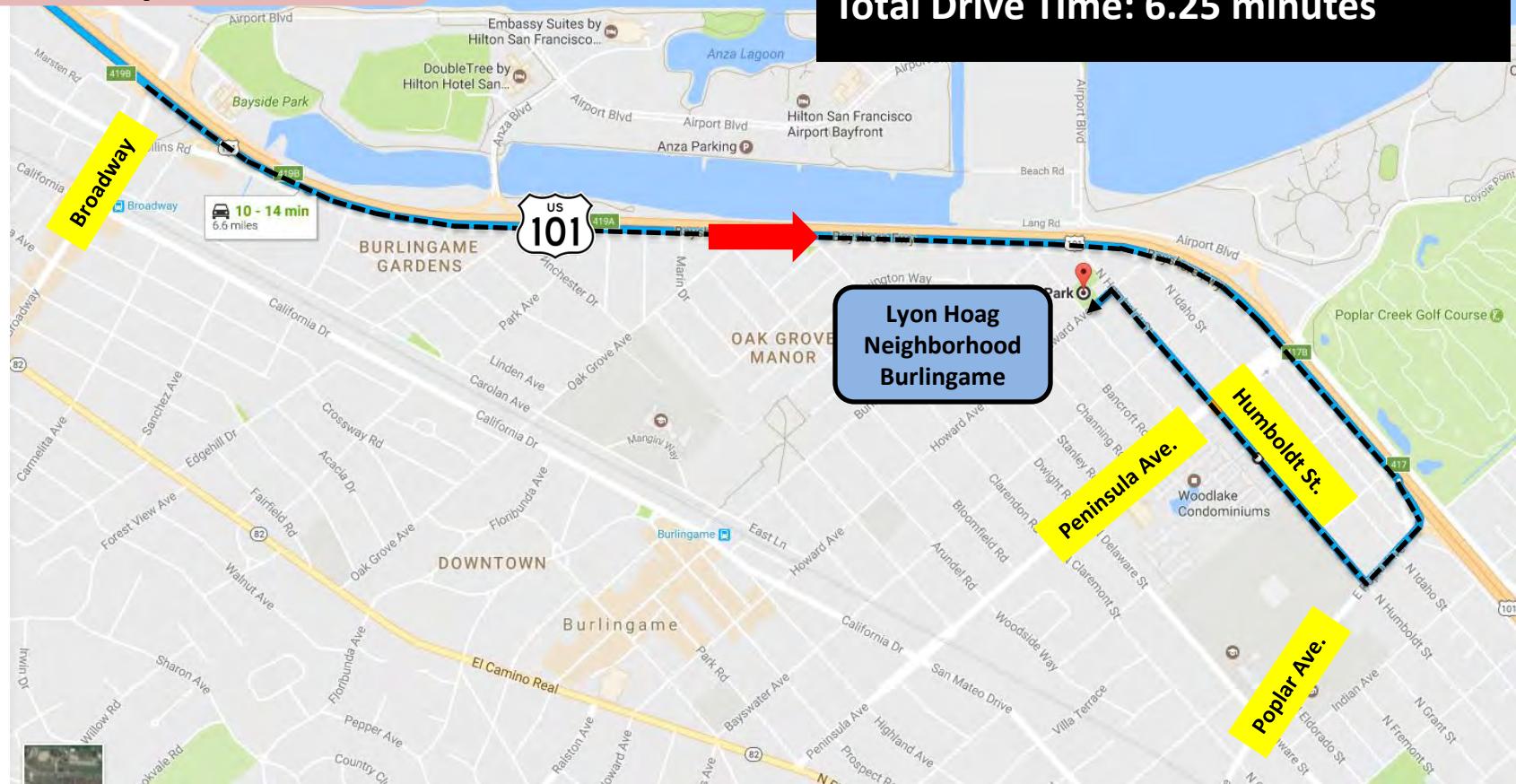
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From Broadway On Ramp to Victoria Park (without Project) (Using US 101)

5:15 pm on Wednesday
May 10, 2017

Total Distance Traveled: 3.1 miles
Total Drive Time: 6.25 minutes



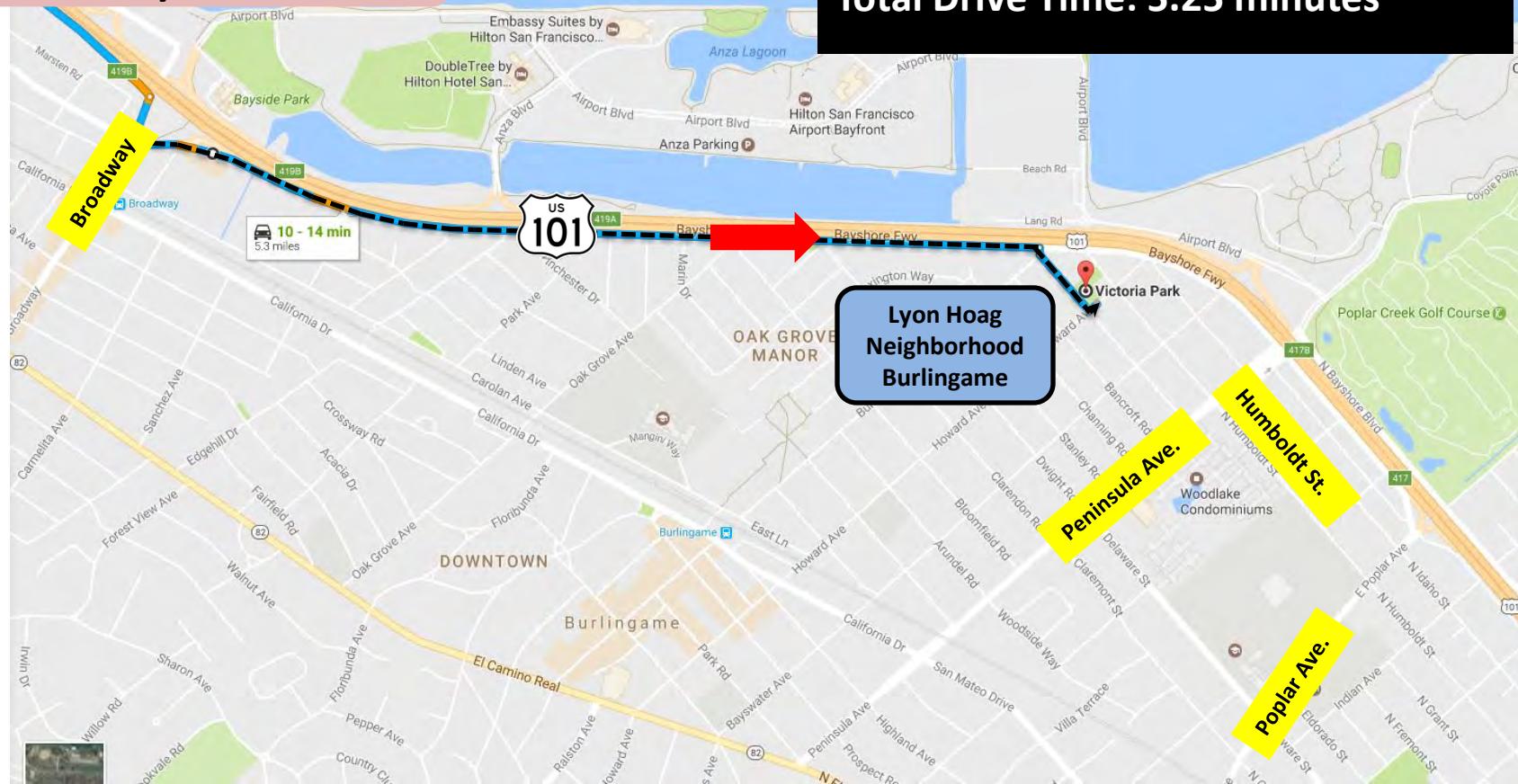
US 101 / Peninsula Avenue Interchange Project



From Broadway On Ramp to Victoria Park **(without Project) (Using Rollins Road)**

**5:15 pm on Wednesday
May 10, 2017**

Total Distance Traveled: 1.6 miles



US 101 / Peninsula Avenue Interchange Project



From Broadway On Ramp to Victoria Park (with Project) (Using US 101 & Peninsula Ave.)

5:15 pm on Wednesday
May 10, 2017

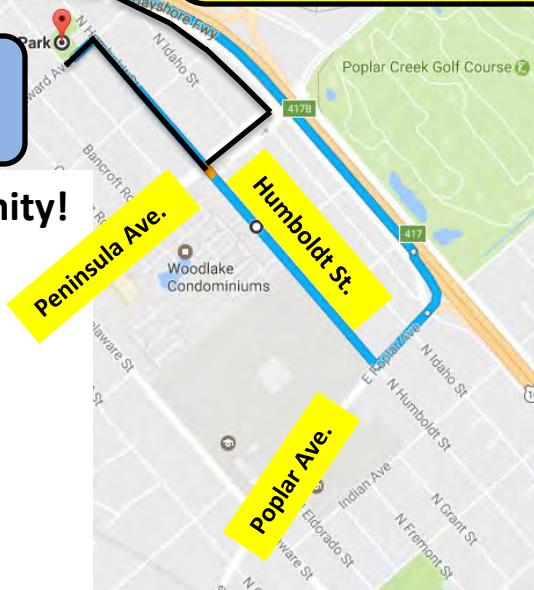
Total Distance Traveled: 1.9 miles
Total Drive Time: 3-4 minutes (Estimated)



Travel Time Savings:
~ 1-2 minutes

In Summary, the Project benefits the driver and the local community!

- ✓ Reduces Travel Time
- ✓ Alleviates Congestion at the US 101/Broadway Interchange
- ✓ Removes Traffic from Residential Streets in both Cities:
 - Rollins Rd
 - Poplar Ave
 - Humboldt St



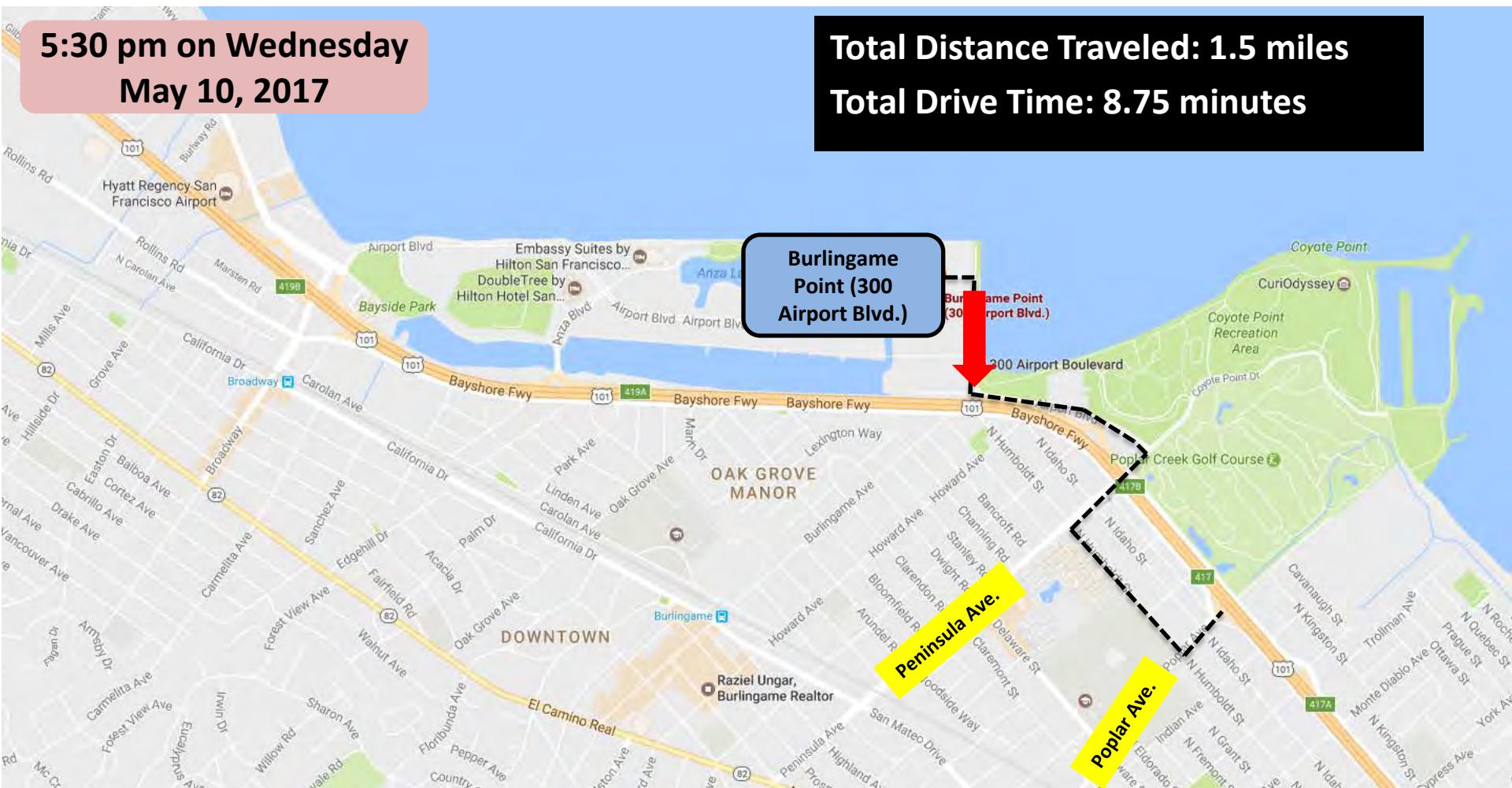
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From Burlingame Point To US 101 SB (to San Jose) Via Poplar Ave (without Project)

5:30 pm on Wednesday
May 10, 2017

Total Distance Traveled: 1.5 miles
Total Drive Time: 8.75 minutes



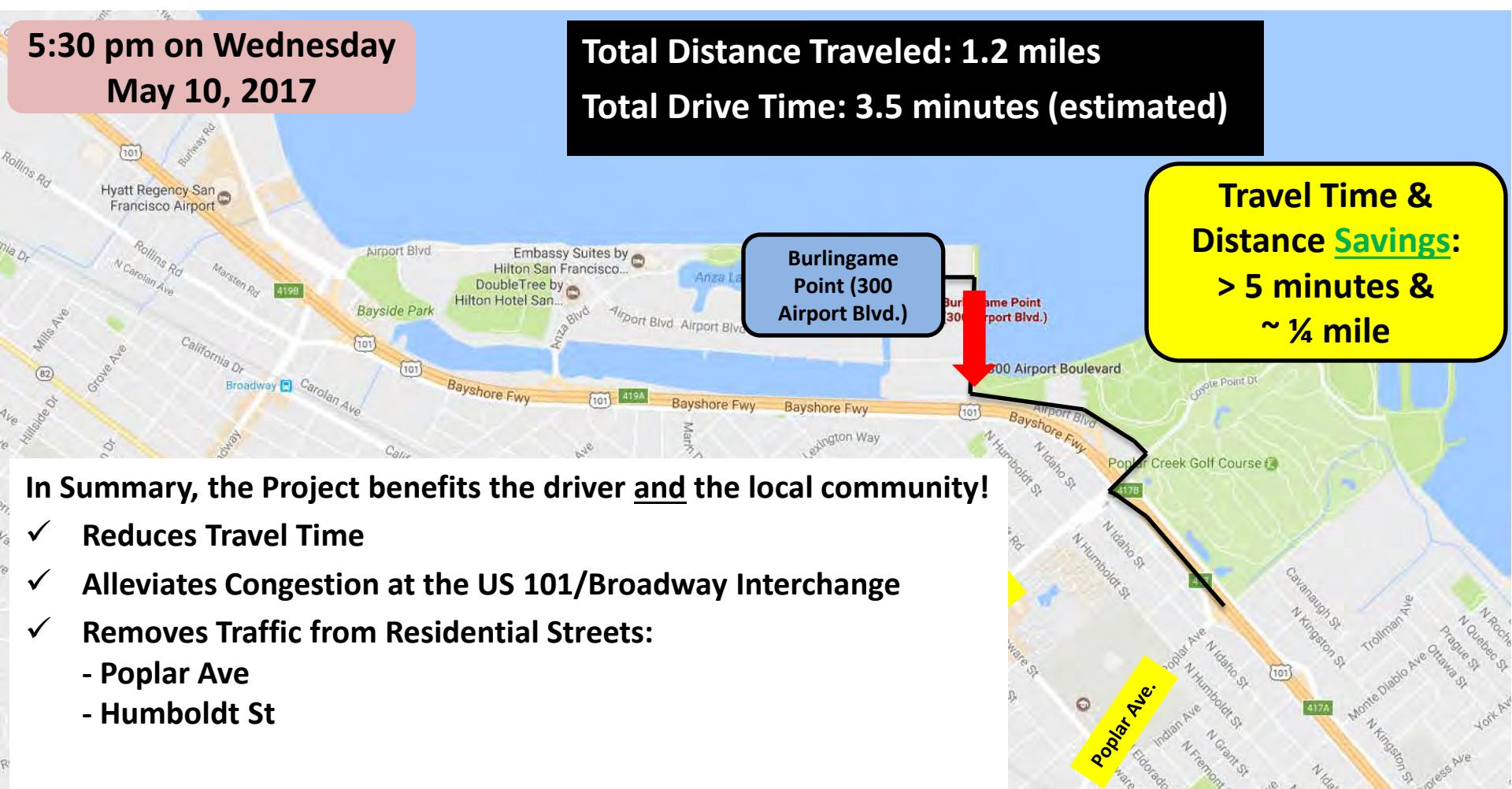
US 101 / Peninsula Avenue Interchange Project



From Burlingame Point To US 101 SB (to San Jose) Via Peninsula Ave (with Project)

5:30 pm on Wednesday
May 10, 2017

Total Distance Traveled: 1.2 miles
Total Drive Time: 3.5 minutes (estimated)



In Summary, the Project benefits the driver and the local community!

- ✓ Reduces Travel Time
- ✓ Alleviates Congestion at the US 101/Broadway Interchange
- ✓ Removes Traffic from Residential Streets:
 - Poplar Ave
 - Humboldt St

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Poplar vs Peninsula

Poplar Ave



Peninsula Ave



- One Lane in Each Direction
- On-Street Parking & Driveways
- No Shoulders

- Two Lanes in Each Direction
- No Parking, No Driveways
- 5-foot Shoulders

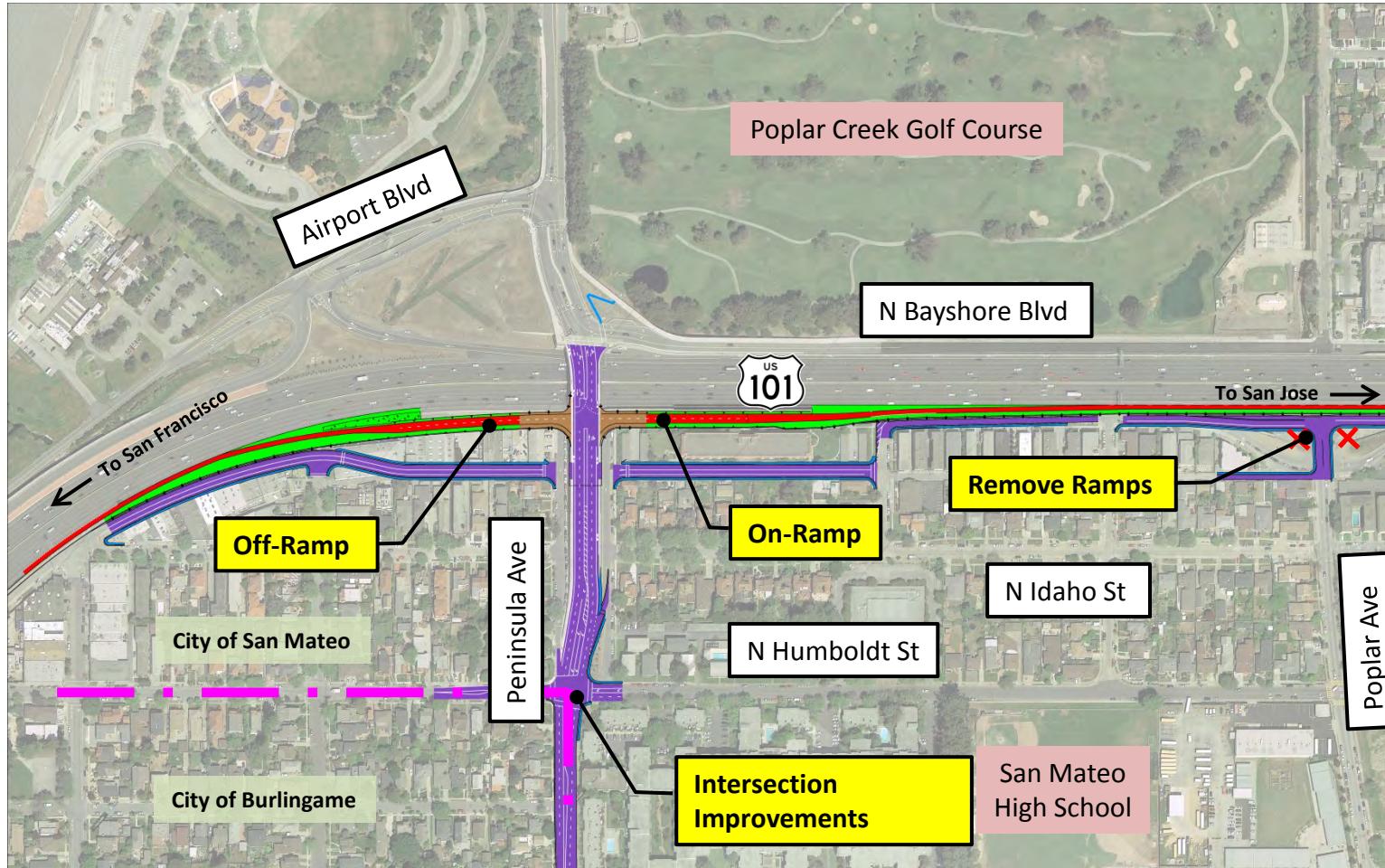
Better suited for traffic to/from freeway

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Peninsula Avenue Interchange

Alternative 1 – Partial Tight Diamond Configuration

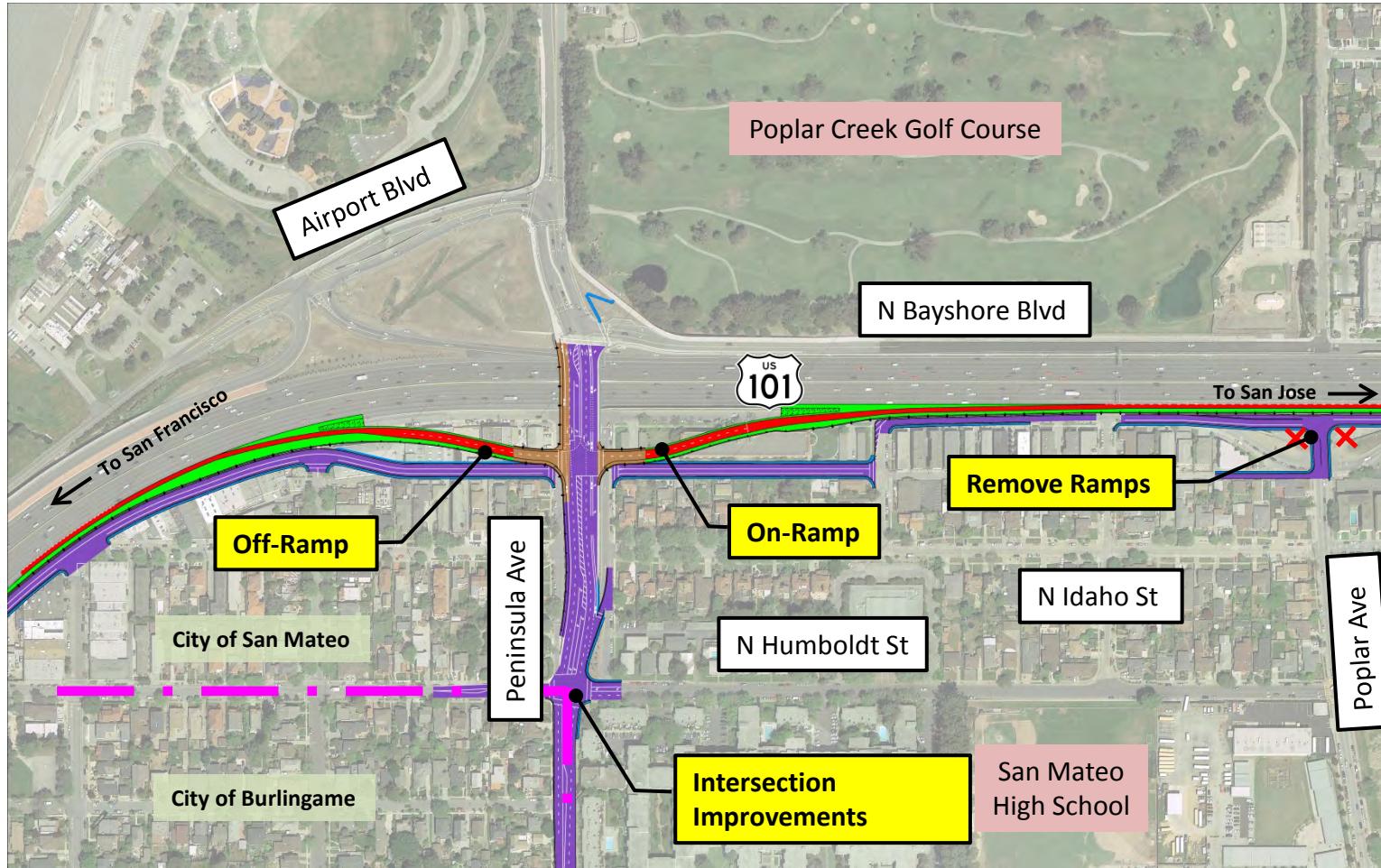


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Peninsula Avenue Interchange

Alternative 2 – Partial Spread Diamond Configuration



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Caltrans Process

- Project Study Report-Project Development Support (PSR-PDS) (**Completed in 2015**)
- Project Approval & Environmental Document (PA&ED) (**Current**)
- *Final Design (PS&E) and ROW Acquisition**
- *Bid Advertisement & Construction**

* Future phases not currently funded

Other Completed & Ongoing Projects



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Traffic Analysis

- **Steps to complete the Traffic Report**
 - Collect Intersection Counts for AM & PM Peak Hours**
 - Collect 24/7 traffic volumes for roadway segments**
 - Collect travel times along streets to capture queues**
 - Calibrate software to match field conditions**
 - Complete the existing conditions analysis**
- **Three conditions analyzed:**
 - Existing (2017) Conditions**
 - Opening Year (2025)**
 - Design Year (2045)**



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Traffic Analysis (continued)

- **Steps to complete the Traffic Report**

E. Traffic Forecasting

1. Check the existing forecast model (Santa Clara & San Mateo C/CAG) data against existing local street and intersection counts
2. Forecast open year (2025) and design year (2045)
3. Prepare traffic forecast memorandum for City/SMCTA/Caltrans Approval

F. Traffic Analysis for Design Alternatives

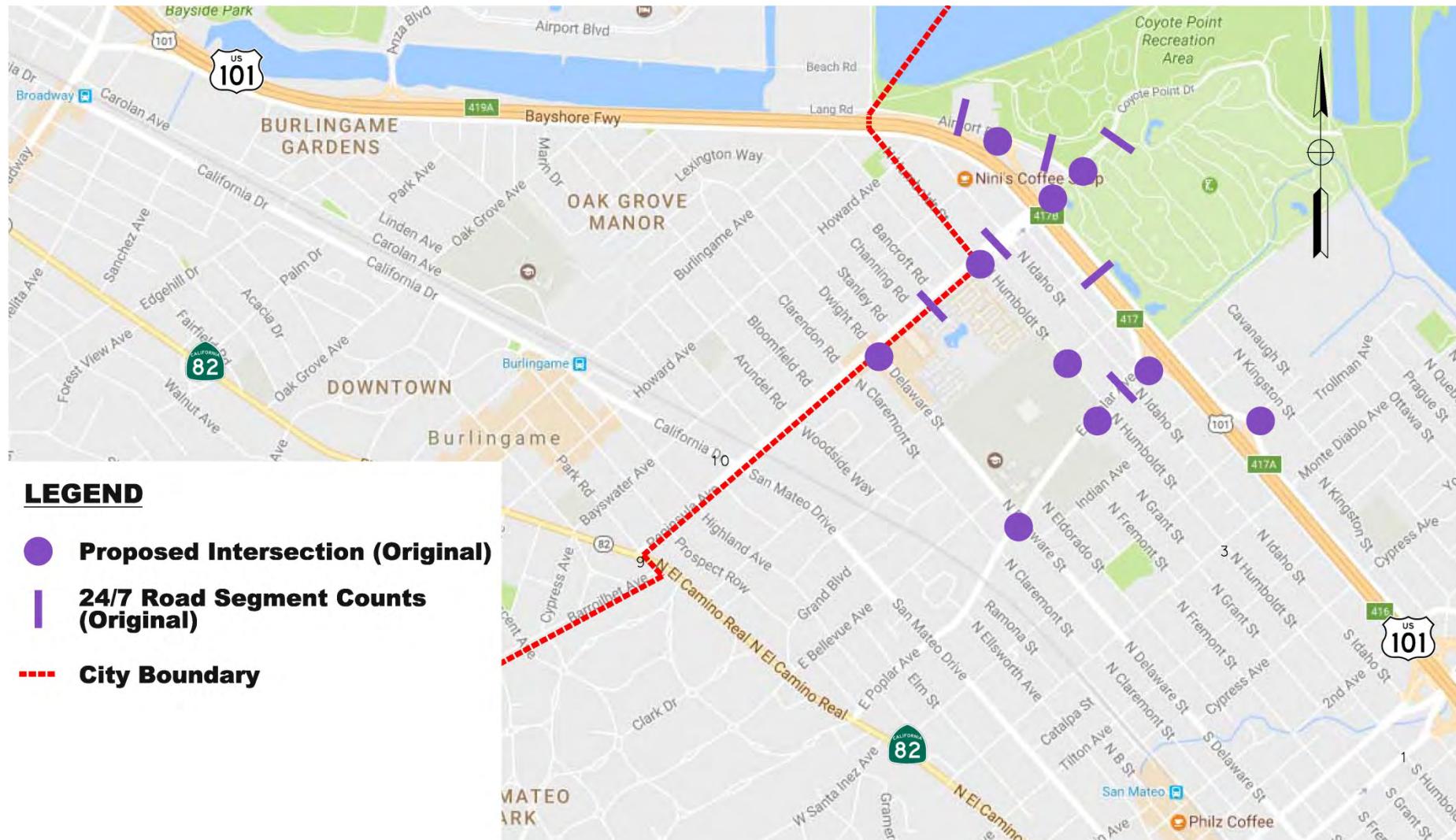
1. Intersection and roadway analysis, queue lengths & LOS
2. All three alternatives (including No-Build) will be evaluated

G. Recommend preferred alternative based on traffic operations analysis

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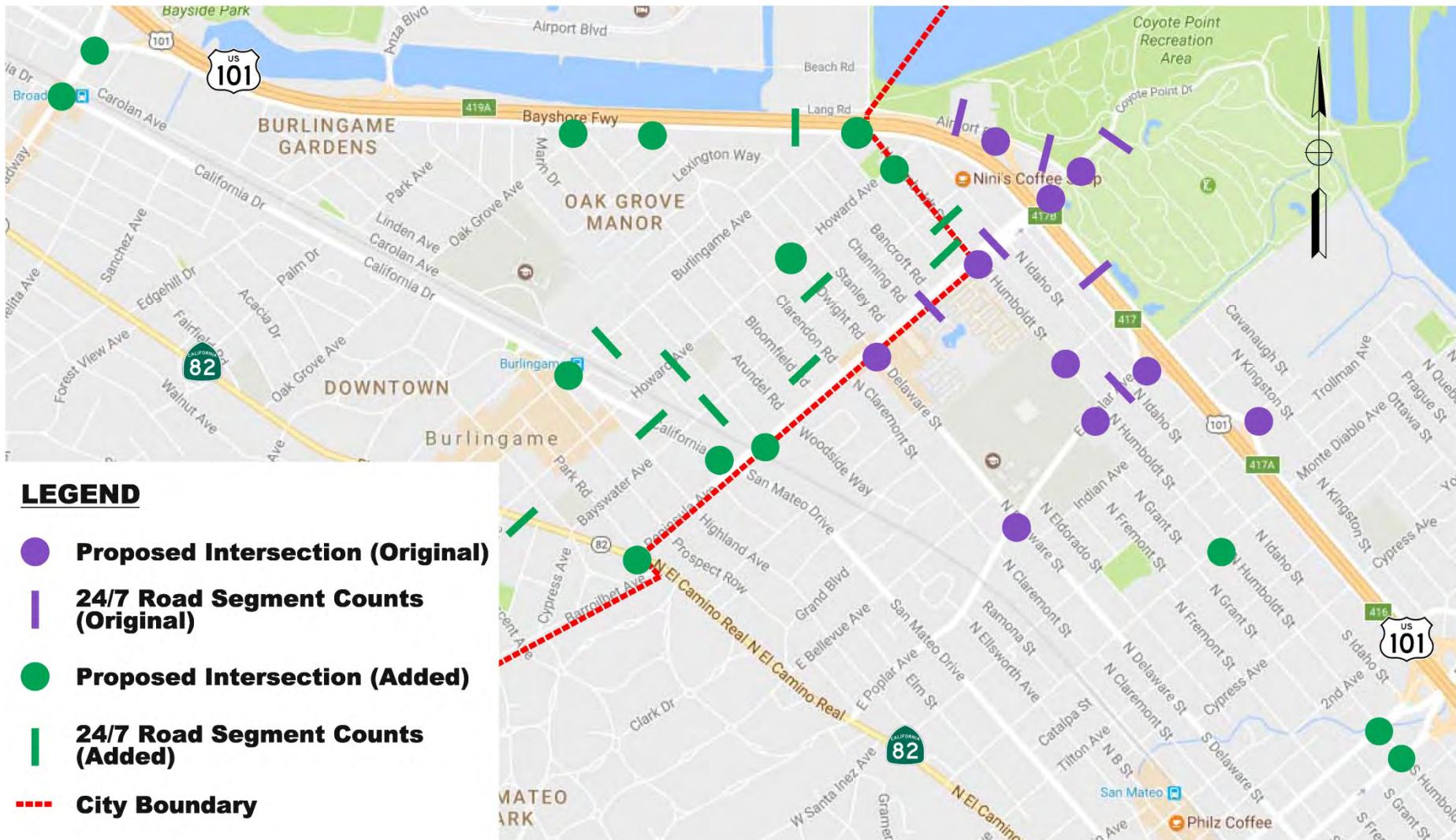
Traffic Study Intersections (Original)



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Traffic Study Intersections (Original + Added)



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Comments or Questions?

For More Information:

Visit Us at: <http://www.cityofsanmateo.org/peninsula>

Email Us at: heap@cityofsanmateo.org

US 101 / Peninsula Avenue Interchange Project



Meeting Summary

Next Steps:

- Project Team will evaluate the public feedback
- Proceed with Traffic Analysis Work

Next meeting: Fall 2017

For More Information:

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Thank You

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