



Sunnyvale

Sunnyvale Avenue Caltrain Grade Separation Feasibility Study

Public Meeting
June 9, 2022
6:00 pm



Meeting Purpose

Sunnyvale Avenue Grade Separation at Caltrain Corridor

- ◆ Provide Update
- ◆ Obtain Input
- ◆ Provide Recommendation to City Council





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Agenda

1. Welcome and Introductions
2. Project Background
3. Project Details
4. Questions and Answers
5. Adjourn

Panel Members



Eileen Goodwin
Apex Strategies



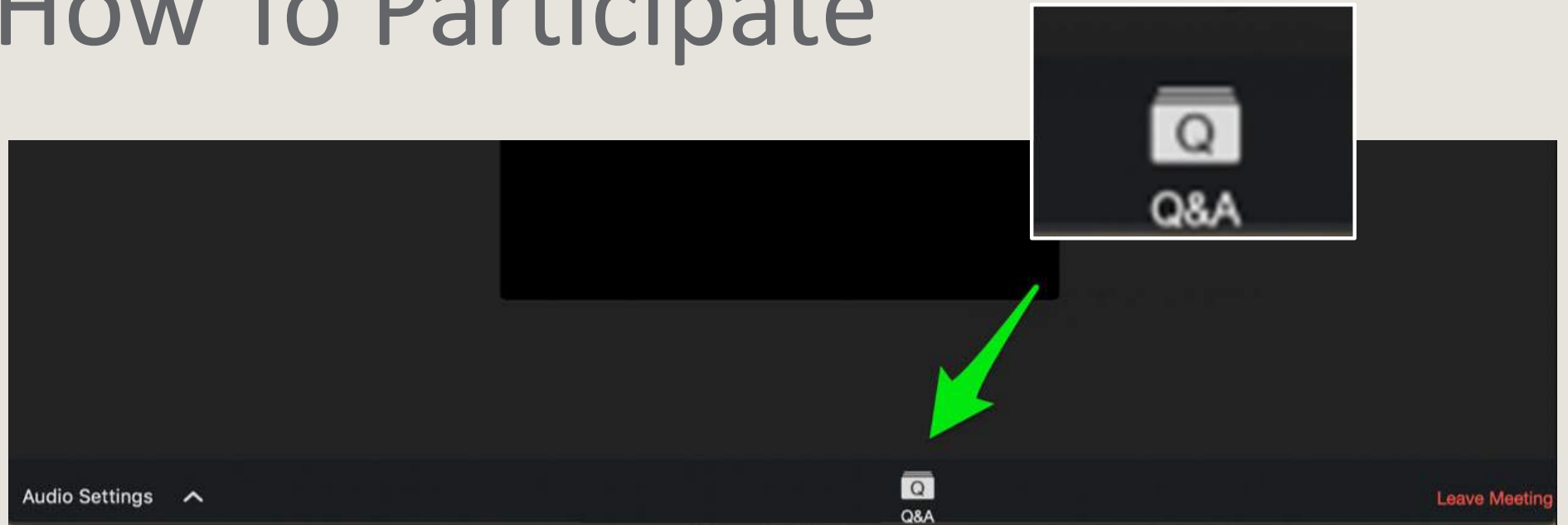
Angela Obeso
City of Sunnyvale



Natalina Bernardi
BKF Engineers

For Question and Answers:
Dennis Ng
City of Sunnyvale

How To Participate



Meeting Information

City of Sunnyvale Grade Separation Projects

- ♦ Mary Avenue – June 8, 2022 Meeting
- ♦ Sunnyvale Avenue – June 9, 2022 Meeting

Obtain Community Input

- ♦ Community Meetings
- ♦ On-line Survey
- ♦ Project Website

Sunnyvale.ca.gov

Search: Caltrain Grade Separation





Definitions

Definitions

At-grade Railroad Crossing



Definitions

Grade Separated Crossing

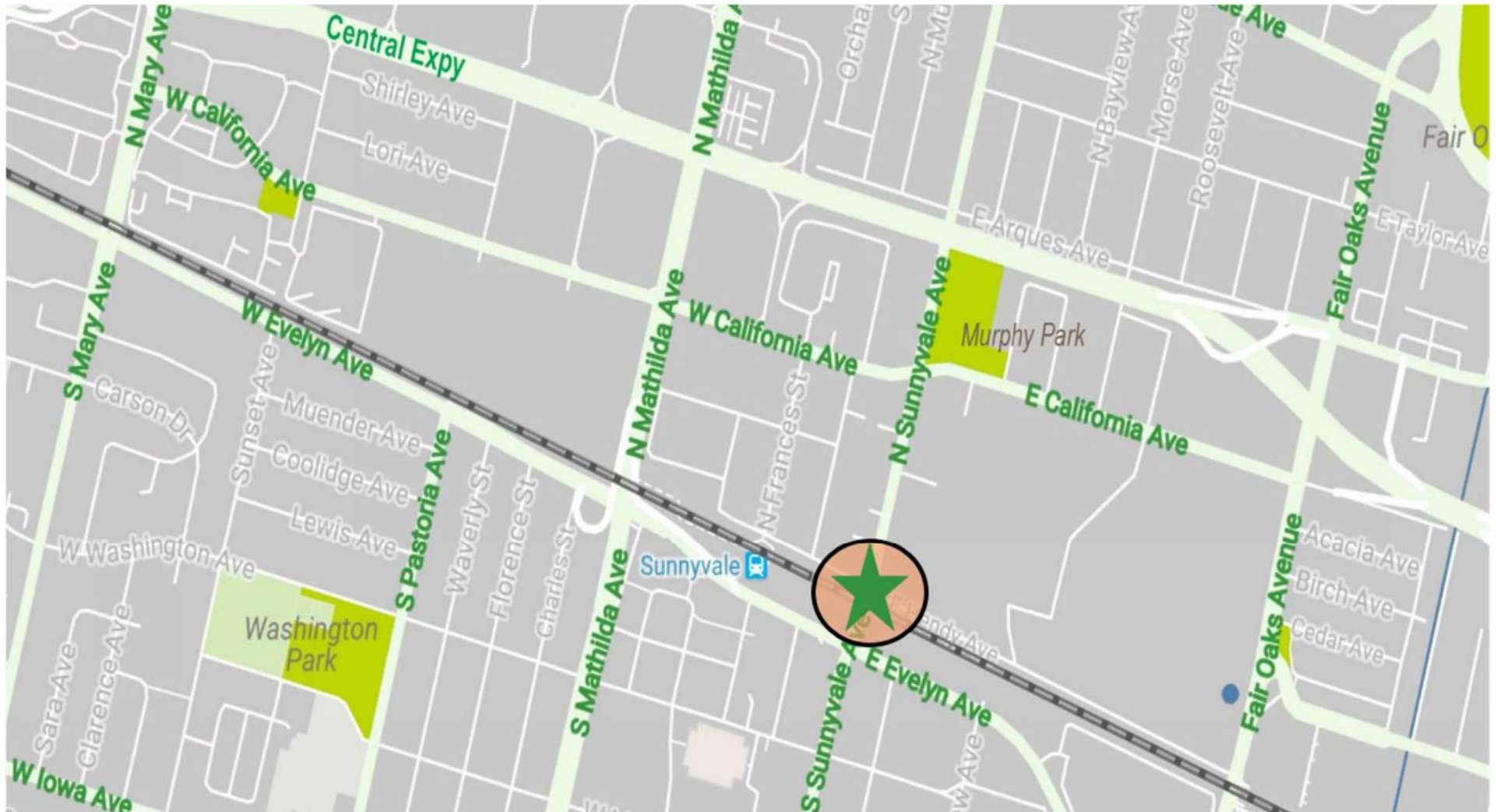




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Project Background

Project Location

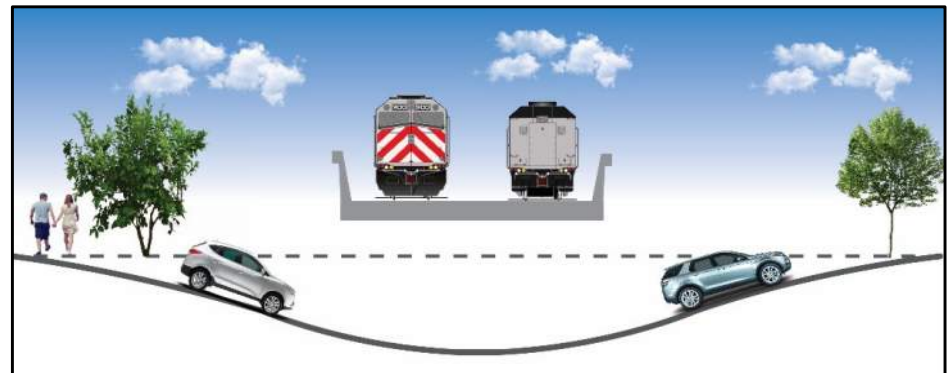
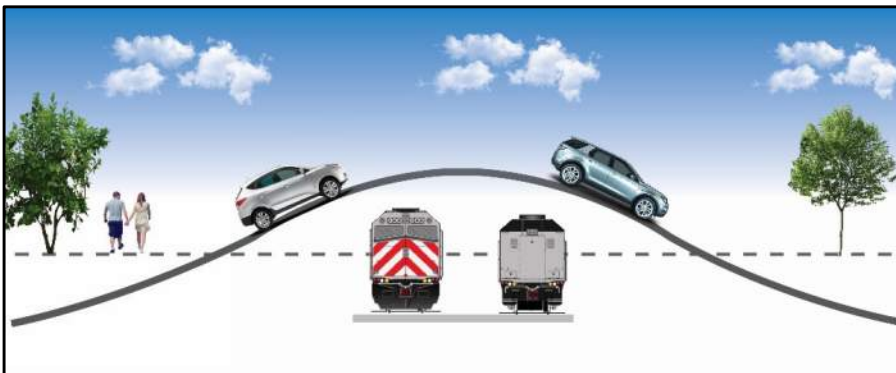
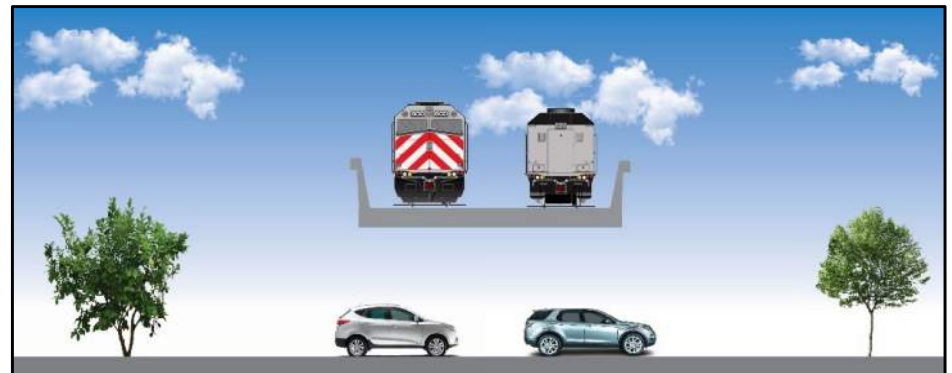
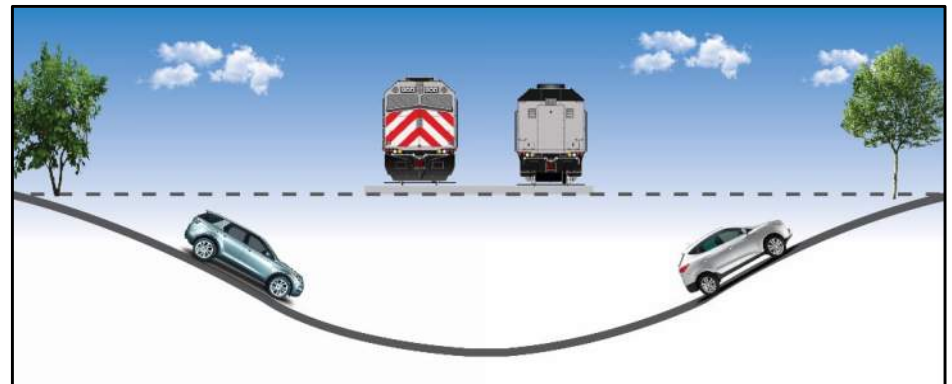


Project Background

- ◆ Sunnyvale Avenue Grade Separation at Caltrain Corridor
- ◆ Feasibility Study Initiated in 2017
- ◆ Investigated and Assessed Alternatives
- ◆ Public Outreach
- ◆ Identify Alternatives for Environmental Phase and Secure Funding
- ◆ COVID Delay
- ◆ Complete Study in 2022

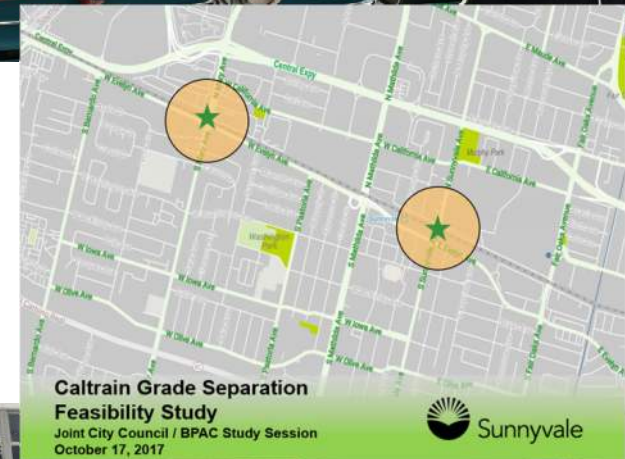


Initial Screening Alternatives



Community Outreach & Public Meetings

- Project Webpage
- 7/26/2017 Business Outreach Meeting
- 8/17/2017 Bicycle and Pedestrian Advisory Commission Meeting
- 8/24/2017 Sunnyvale Avenue Community Meeting (65 participants)
- 9/06/2017 Sunnyvale Downtown Association Meeting
- 9/2017 Sunnyvale Avenue Online Survey (77 responses)
- 10/17/2017 City Council and BPAC Joint Meeting
- 1/23/2018 City Council Meeting



Community Outreach / Public Meetings - 2022

On-going Stakeholder Outreach Activities

City Council Study Session 4/5/22

Mary Avenue Community Meeting 6/8/22

Sunnyvale Avenue Community Meeting 6/9/22

Online Survey 6/13-7/11/22

Bicycle and Pedestrian Advisory Commission Meeting 7/21/22

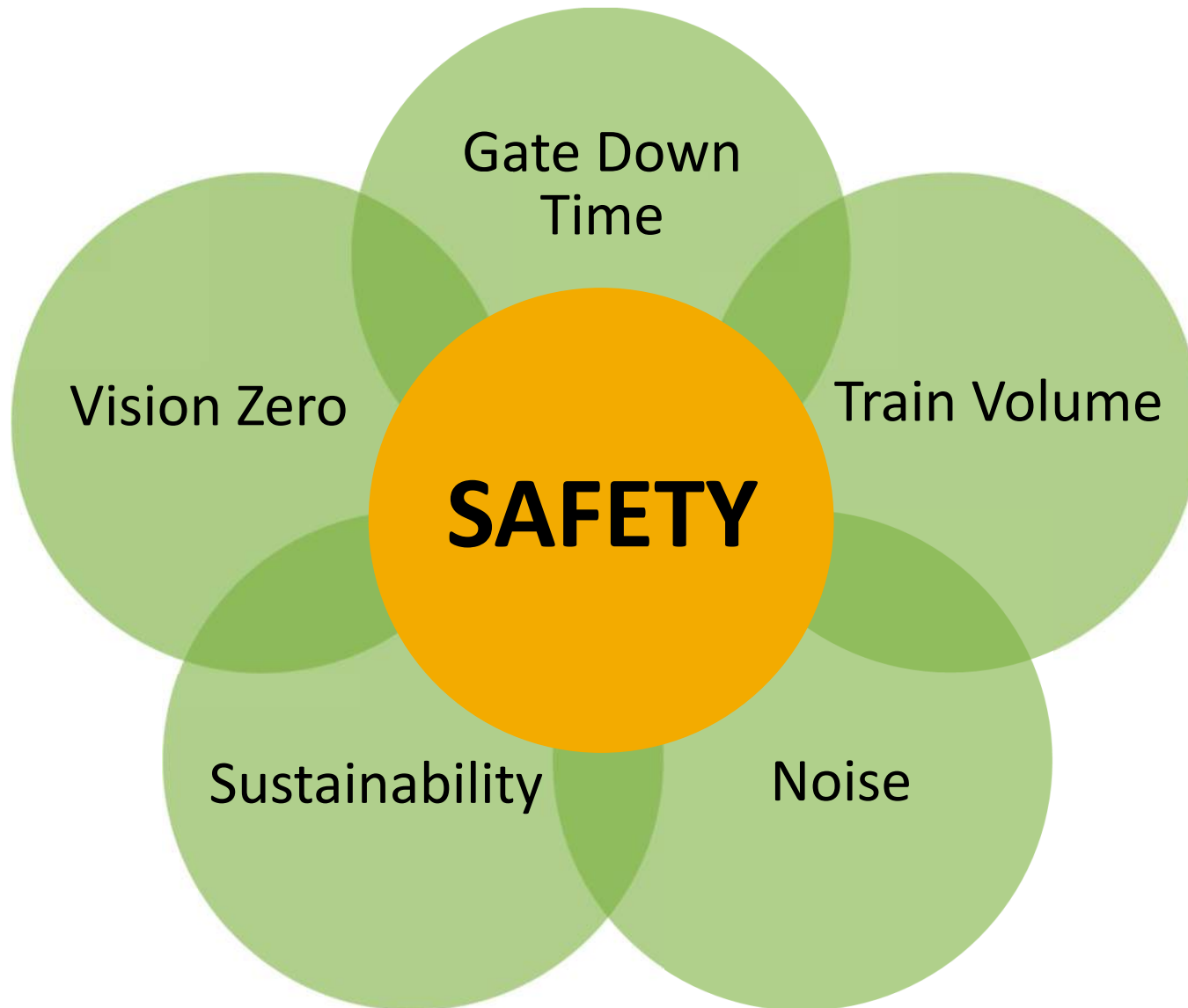
***8/30/22 City Council Public Hearing
Summary of Input and Selection of Alternatives***



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Project Purpose

Project Purpose



Why is Grade Separation Needed?

HOW MANY TRAINS PER DAY?



Source: Caltrain Business Plan, City of Sunnyvale Booklet, May 2019

Why is Grade Separation Needed?

CROSSING THE TRACKS

Gate down times shown are indicative projections extrapolated from existing crossing performance. They are examples of "worst case" gate downtimes that could occur if no grade separations or grade crossing improvements were made. The financial component of the Caltrain Business Plan is planning for substantial investments in grade separation and crossing improvements across all scenarios.

 Existing Crossings	 Peak Hour Auto Crossings	 Collisions (2008-2018)	 Crossing Gate Downtime (Assuming No Improvements) (min/peak hr)			
	Existing	Existing	Existing	Baseline Growth	Moderate Growth	High Growth
N Mary Ave 	2,290	4	0:07	+74%	+114%	+179%
Sunnyvale Ave 	950	1	0:11	+30%	+92%	+120%

The City of Sunnyvale is studying the separation / elimination of existing at-grade crossings at Mary Ave and Sunnyvale Ave. When implemented these projects would improve safety and eliminate gate downtime delay. The Business Plan is analyzing and incorporating costs associated with these projects.

Source: Caltrain Business Plan, City of Sunnyvale Booklet, May 2019



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Project Today

Project Today

- ◆ Move Forward with City Council Direction
- ◆ Refinement of Alternatives
- ◆ Confirm Impacts
- ◆ Considerations
 - Caltrain Modernization and Electrification Project
 - Caltrain Business Plan
 - California High Speed Rail
 - Changing Traffic Conditions
 - Sustainable Traffic Modes
 - Capture Funding Opportunities

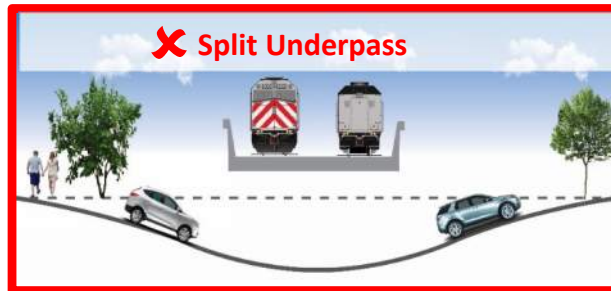
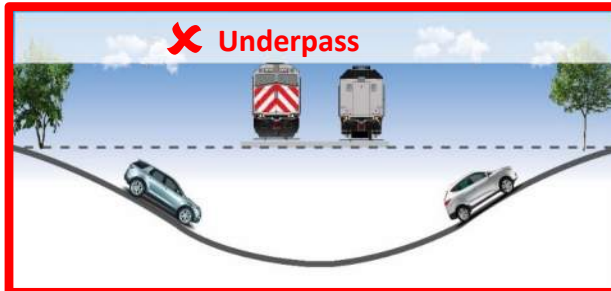




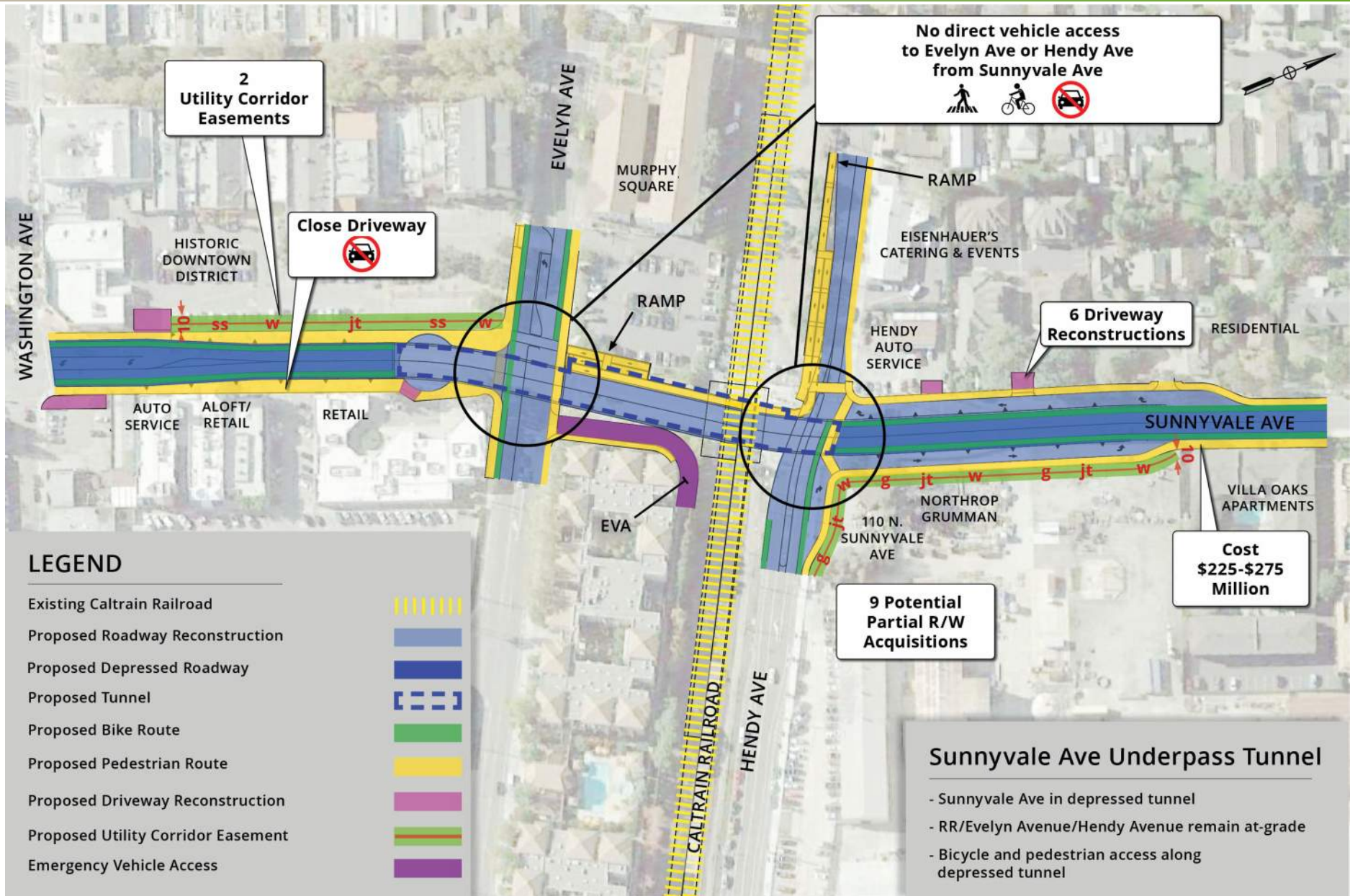
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Current Alternatives

Sunnyvale Avenue Alternatives



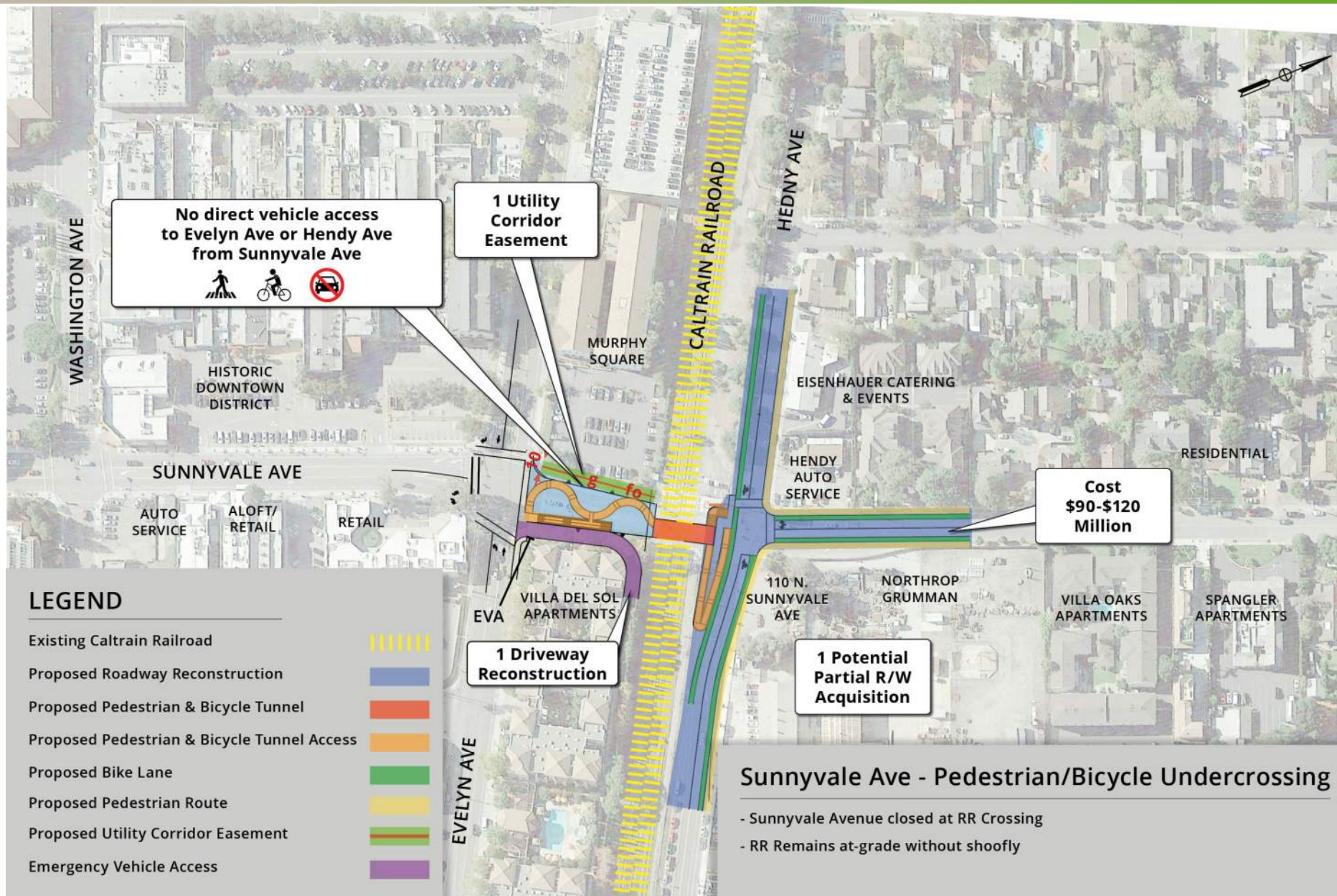
Sunnyvale Avenue Underpass Tunnel



Sunnyvale Avenue Underpass Tunnel



Sunnyvale Avenue Ped/Bicycle Undercrossing



Sunnyvale Avenue Ped/Bicycle Undercrossing

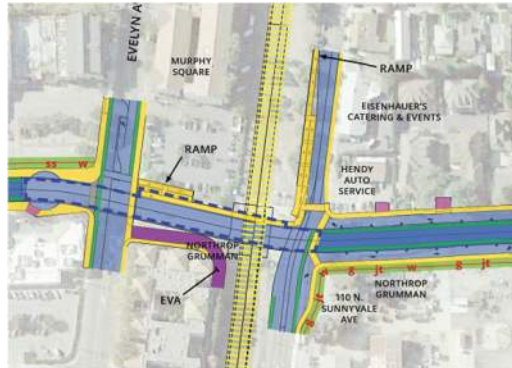


Palo Alto Homer Undercrossing



Santa Clara Ped Undercrossing

Alternative Comparison



	Underpass Tunnel Sunnyvale Ave Depressed	Ped/Bike Undercrossing
Safety	Train conflict removed	Train conflict removed
Noise	Reduced noise impacts	Reduced noise impacts
Circulation - Vehicle	No access to Evelyn and Hendy Ave	Sunnyvale Ave road closure
Circulation – Non-motorized	Improved & safer facilities	Improved & safer limited facilities
Potential ROW	9+ partial parcels	1+ partial parcel
Construction Impacts	6+ driveways 2 utility corridors Roadway reconstruction Stage Construction	1+ driveways 1 utility corridor Roadway reconstruction Stage Construction
Cost	\$225M - \$275M	\$90M - \$120M



Funding

Funding Opportunities

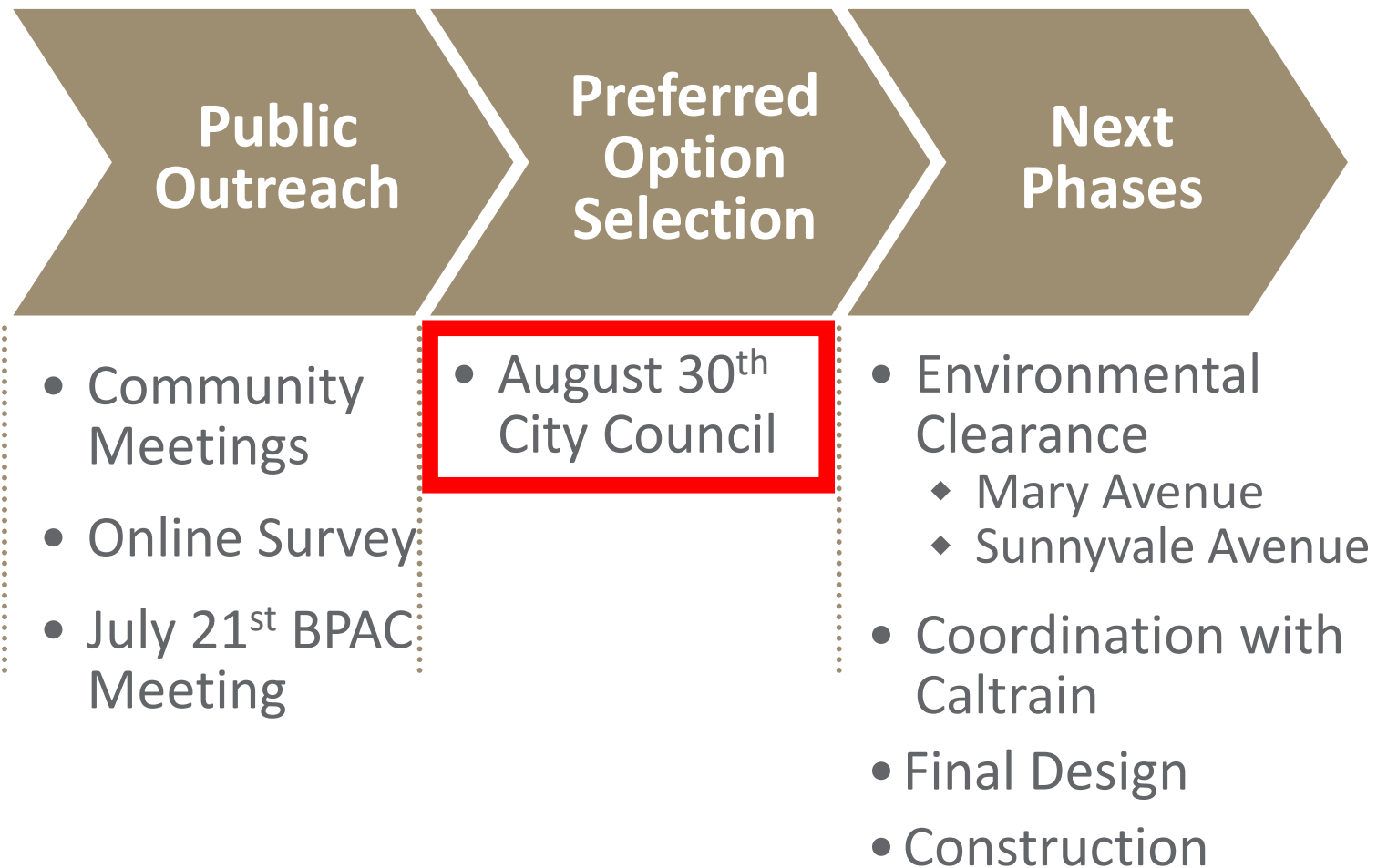
- VTA 2016 Measure B Grade Separation Program
- California Section 190 Grade Separation Prioritization Program
- One Bay Area Grant (OBAG)
- Federal Funding Opportunities





Next Steps

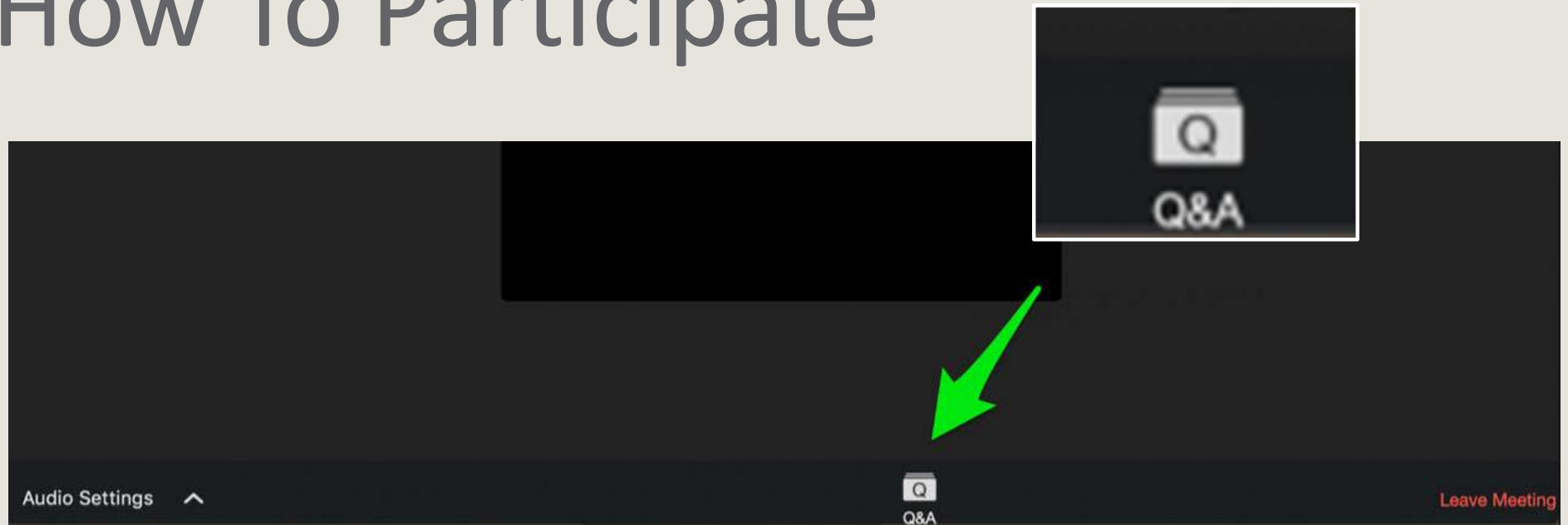
Next Steps



Overall Schedule and Process



How To Participate





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Questions

Website:

Sunnyvale.ca.gov

Search: Caltrain Grade Separation

Information

Website



Sunnyvale.ca.gov

Search: Caltrain Grade Separation

Input



On-line Open House and Survey

Open June 13, 2022 through July 11, 2022

Contact



Angela Obeso, P.E.

Principal Transportation Engineer

(408) 730-7557

aobeso@sunnyvale.ca.gov



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Thank you