

Project Objectives

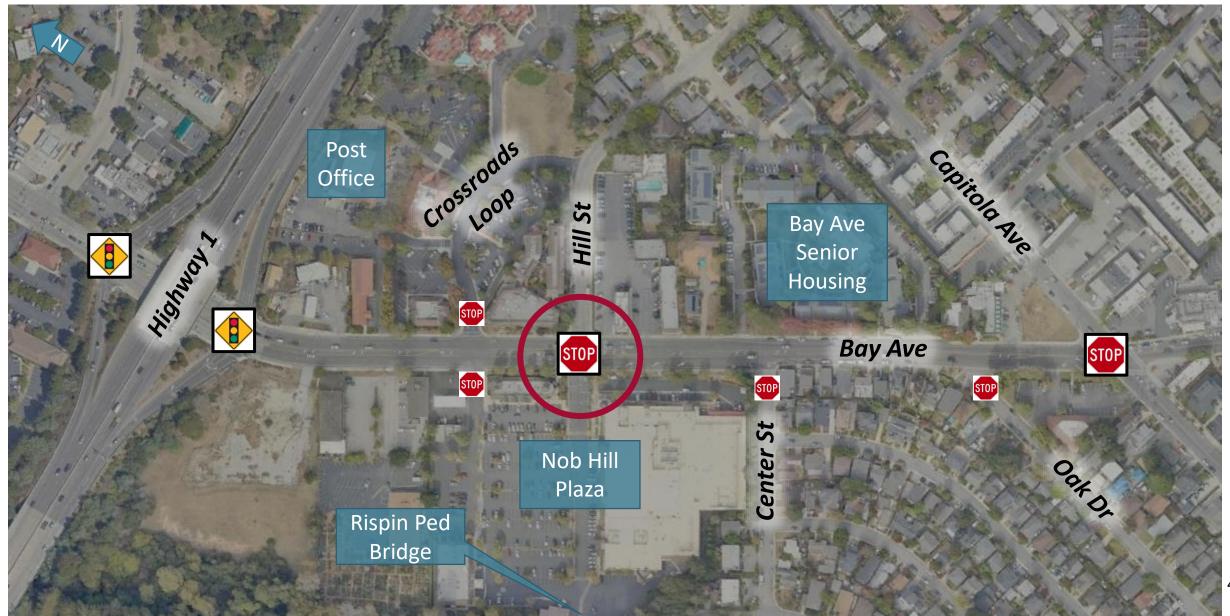
Determine feasible "Quick Build" improvements at Bay/Hill intersection to improve multimodal safety and operations

- 1. Gather community input
- 2. Utilize existing travel lanes to provide crossing improvements for bikes and pedestrians
- 3. Enhance bike and pedestrian access, safety, and visibility
- 4. Maintain acceptable traffic operations

Traffic Analysis Overview

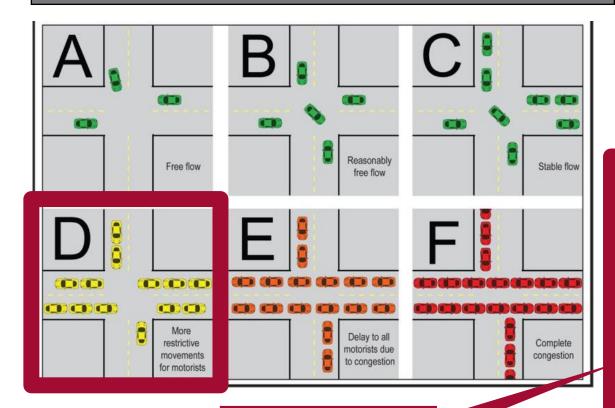
- 1. Existing Conditions and Traffic Data
- 2. Traffic Calming Toolbox
- 3. Public Outreach
- 4. "Quick-Build" Layout Alternatives
- 5. Next Steps & Council Direction

Existing Conditions



Level of Service (LOS)

- LOS is measured by average delay in seconds per vehicle
- LOS is <u>not</u> a measurement of safety

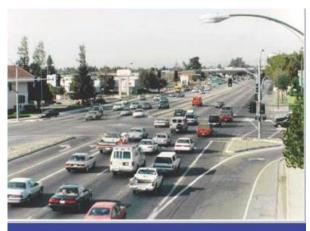






LOS "A"

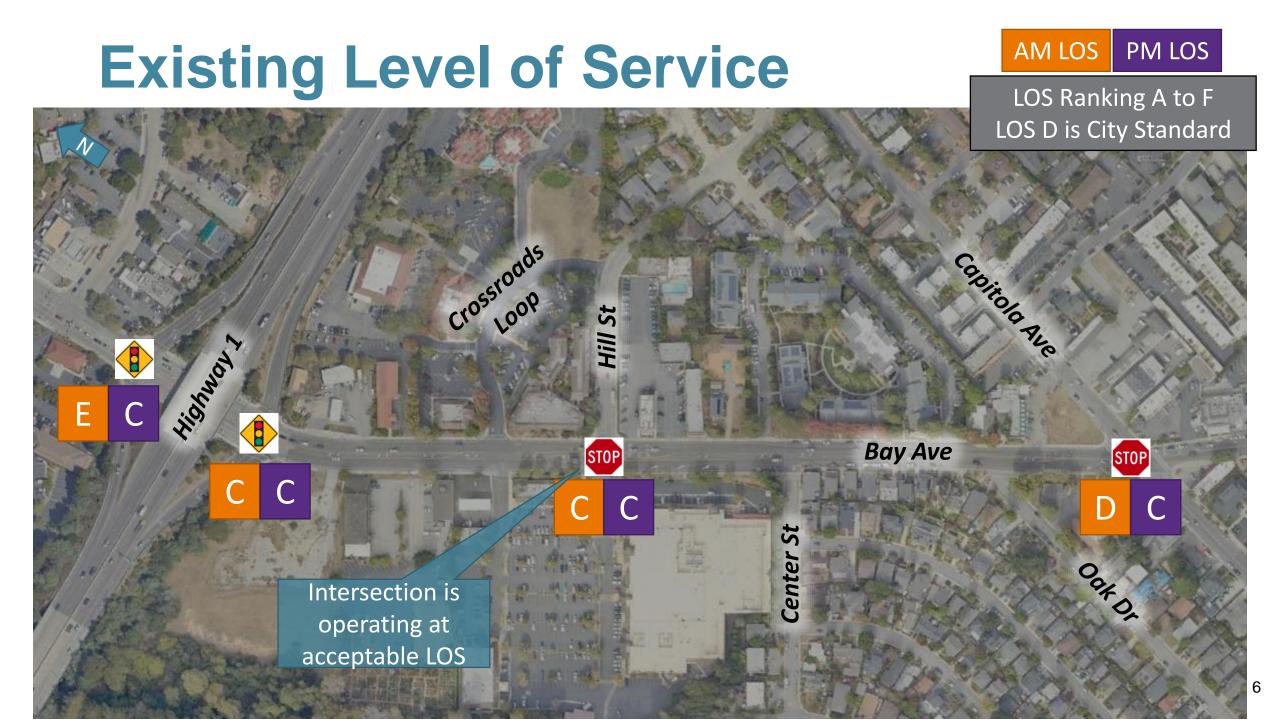




LOS "C"



LOS "F"



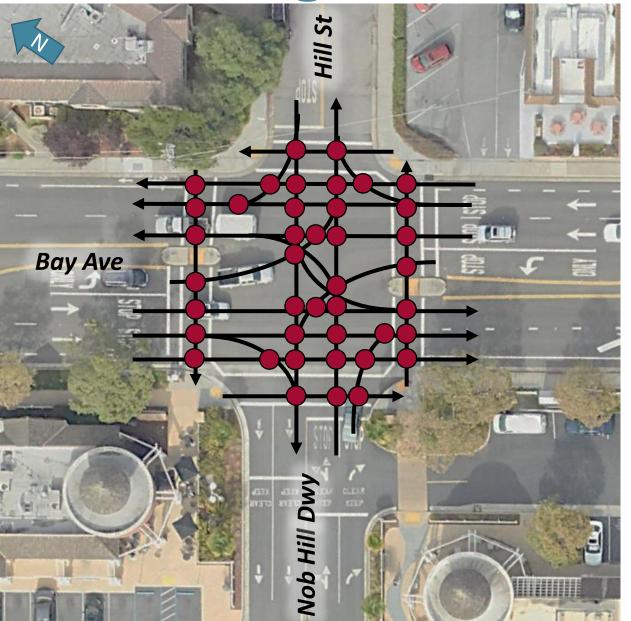
Existing Conditions – Stop Control







Existing Conditions – Conflicts



9 vehicle entry lanes and 41 potential conflict points at the intersection

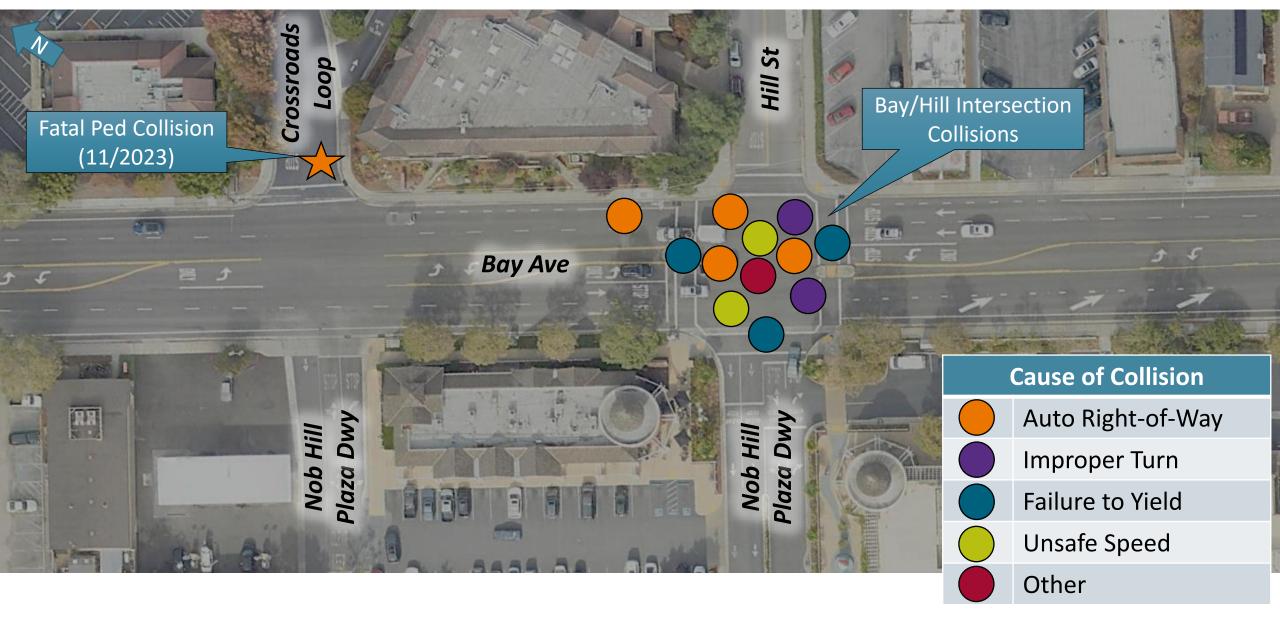
- Multiple vehicle lanes cause:
 - 1. Multiple conflict points between vehicles, bikes, and pedestrians crossing the intersection
 - 2. Confusion of who has right-of-way
 - 3. Higher probability of accidents

Bay/Hill Collision Data (11/2017 – 12/2023)

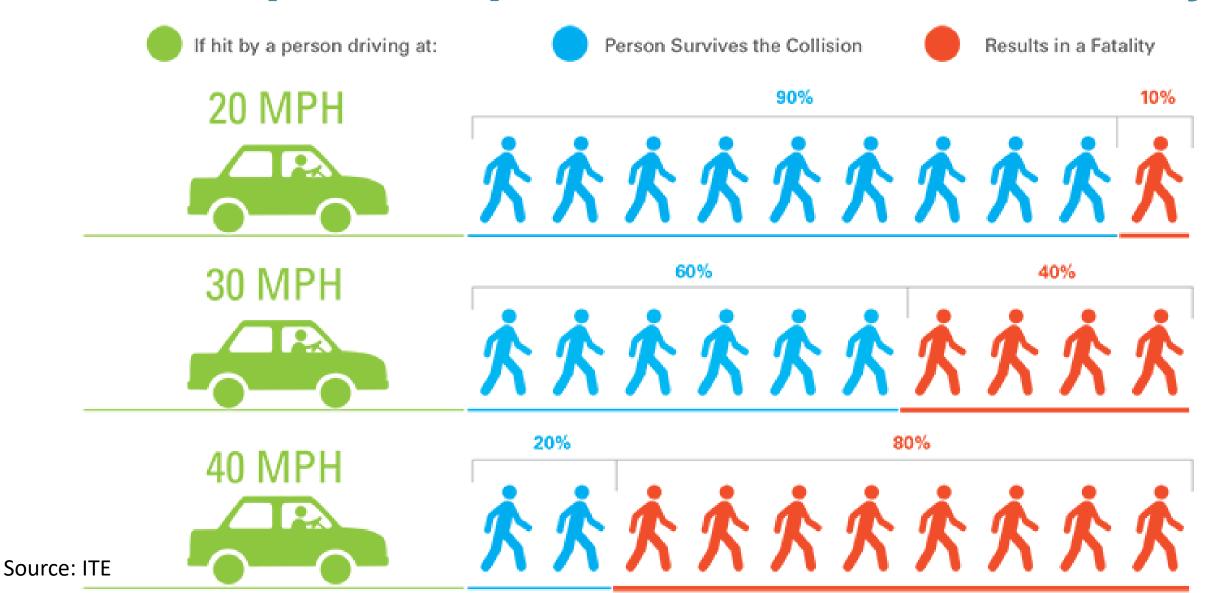
Vehicle Collision Type	Count	Primary Collision Factor	Collision Severity	
Head On	1	Other	Property Damage	
Sideswipe	3	Improper Turn, Auto R/W	Property Damage	
Broadside	4	Improper Turn, Auto R/W, Unsafe Speed	Injury, Property Damage	
Hit Object	1	Improper Turn	Property Damage	
Auto/Pedestrian	3	Failure to Yield	Injury	

12 Total Vehicle Collisions

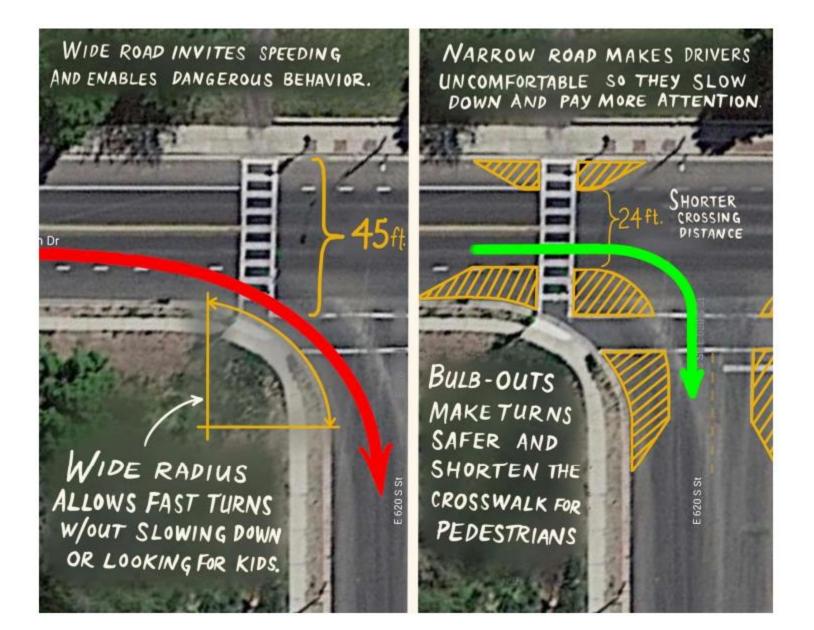
Bay/Hill Collision Data (11/2017 - 12/2023)



Travel Speed Impact to Pedestrian Fatality



Curb Extension and Road Diet



Curb Extension and Road Diet





Bike and Pedestrian Crossings

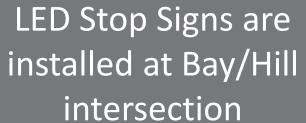




Signing Enhancements









Public Outreach

- Subcommittee meetings with City staff and Council members
- Outreach with property owners
- Public workshop at Bay Avenue Senior Housing Community



Community Feedback

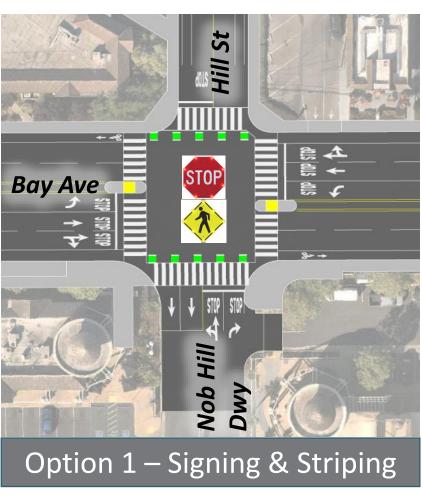
#	General Comment	Response / Recommendation		
1	Community supports measures to improve bike and pedestrian visibility and safety	Proposed traffic calming improve multimodal access and safety		
2	Community supports a solution that does not significantly impede access to adjacent properties	Proposed options maintain existing driveway access while improving bike/ped mobility		
3	Community supports a solution that does not significantly impact vehicle operations	A traffic analysis was conducted for the Quick build options		
4	Community supportive in a reduction of vehicle operations to improve road safety	Proposed options focus on enhancing bike/ped visibility and reducing exposure to oncoming traffic		
5	Community raised concerns of street lighting and limited visibility at night	Proposed options to use retroreflective materials, street lighting to be a long-term improvement		

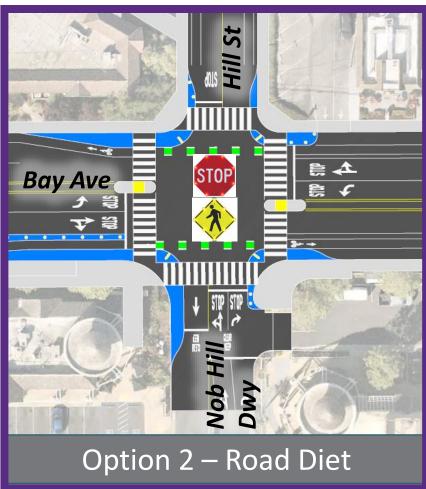
Quick Build Layouts

- Quick-build projects are reversible, adjustable traffic safety improvements that can be installed relatively quickly
- Quick-build projects are constructed within weeks or months and are intended to be evaluated and adjusted after construction.
- Potential for permanent or temporary interim installation



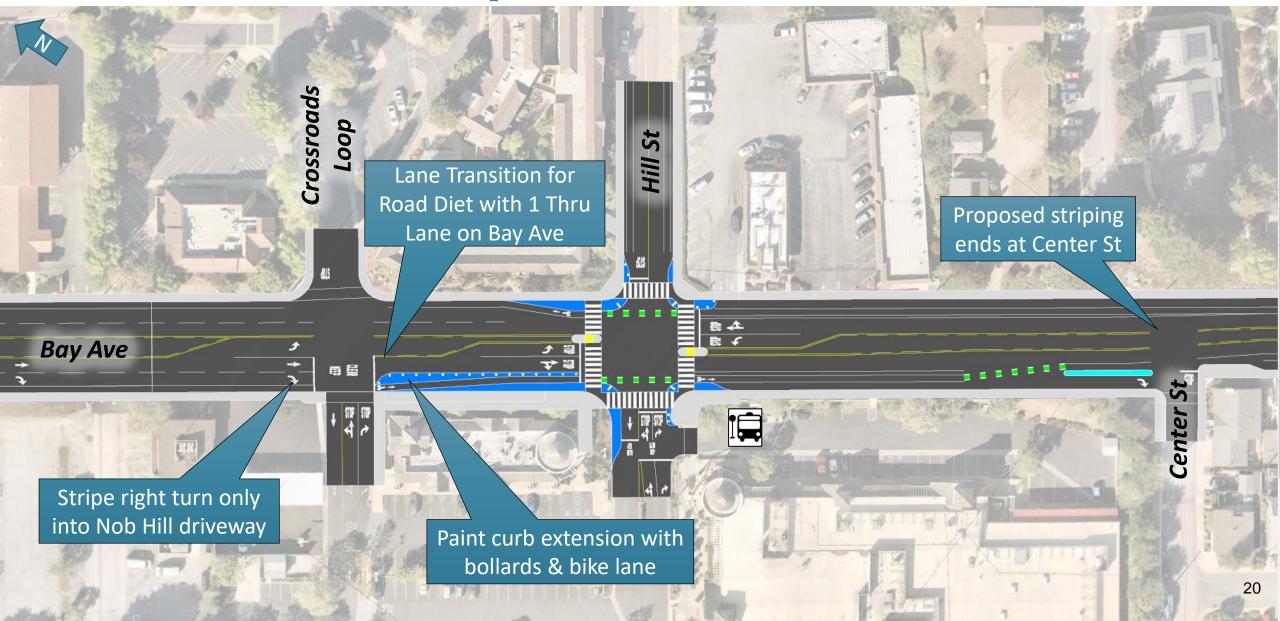
Quick Build Layouts







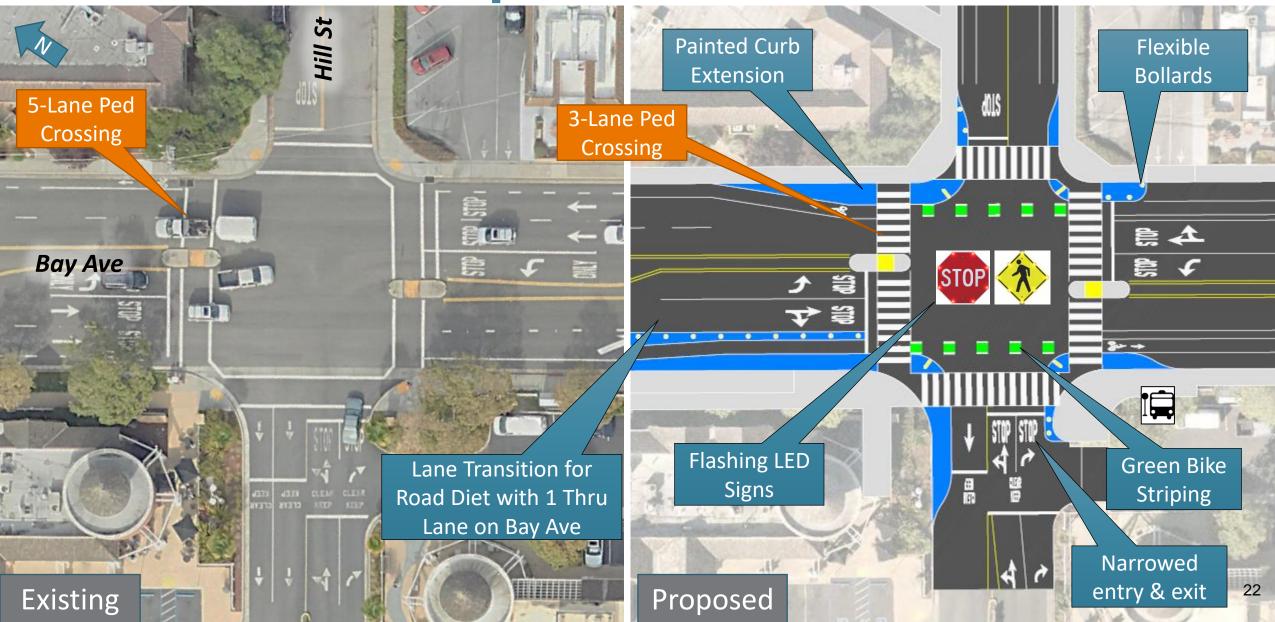
Quick Build Option 2 – Road Diet

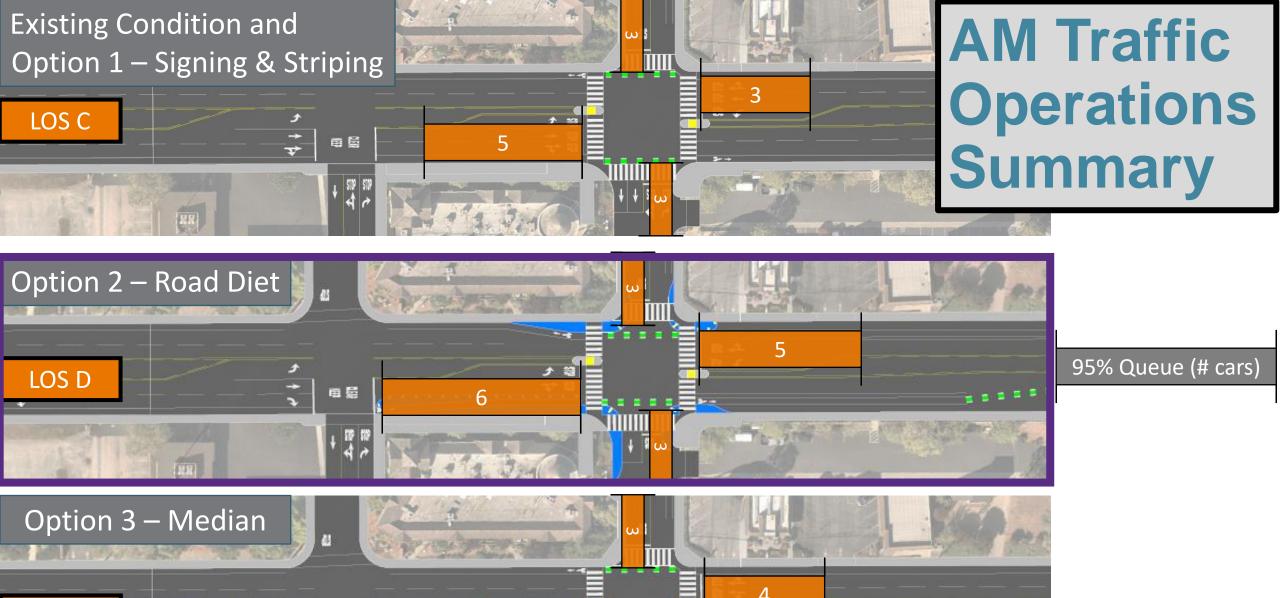


Quick Build Option 2 – Road Diet



Quick Build Option 2 – Road Diet

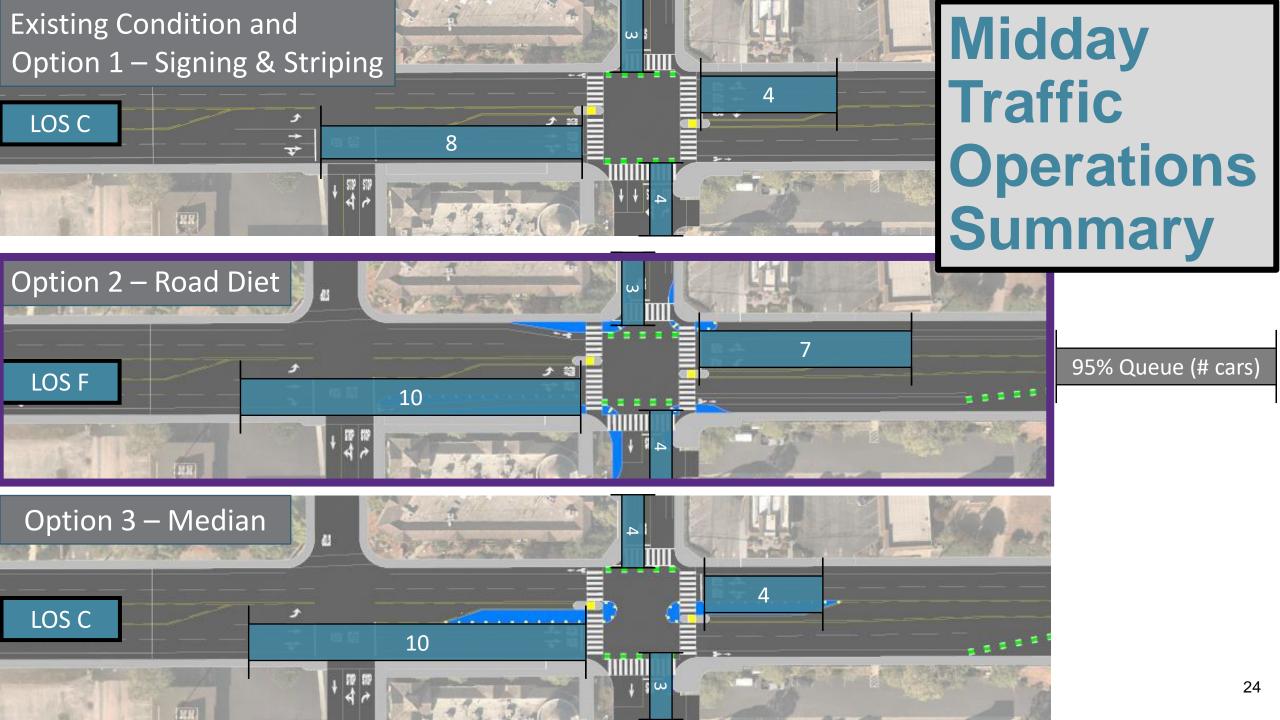


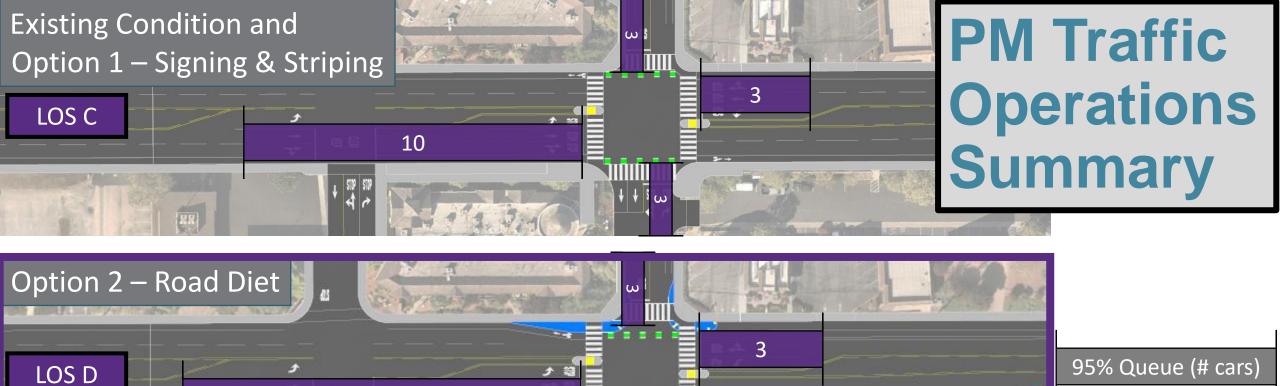


LOS B

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Quick Build Option Summary

Criteria	Existing Intersection	Option 1 Signing & Striping	Option 2 Road Diet	Option 3 Median
Bike & Pedestrian Safety & Visibility	<u>Low</u> 41 conflict points	Medium 41 conflict points Marked crossings	High 32 conflict points Marked crossings Curb extensions Bike lane buffer	Medium 38 conflict points Marked crossings Wider ped median
Pedestrian Crossing Exposure	High 5-lane crossing	<u>High</u> 5-lane crossing	<u>Low</u> 3-lane crossing	Medium 4-lane crossing
Intersection Level of Service	<u>Good</u> AM Peak: <u>C</u> Midday: <u>C</u> PM Peak: <u>C</u>	<u>Good</u> AM Peak: <u>C</u> Midday: <u>C</u> PM Peak: <u>C</u>	Ok AM Peak: <u>C</u> Midday: <u>F</u> PM Peak: <u>D</u>	<u>Good</u> AM Peak: <u>B</u> Midday: <u>C</u> PM Peak: <u>C</u>
Impact to Vehicle Queues	Low	Low	Medium	Medium

Next Steps

Short Term

- City Council direction on Quick Build Option
- Spring 2024 to Summer 2025: Quick Build improvements and evaluation period

Long Term

- 2024: Bay Avenue Corridor Safety Study
- On-going: Pursue funding opportunities
- Summer 2026 earliest: Bay Avenue corridor improvements pending available funds

Recommended Action

 Authorize construction of the proposed Bay Avenue/Hill Street intersection quick-build project