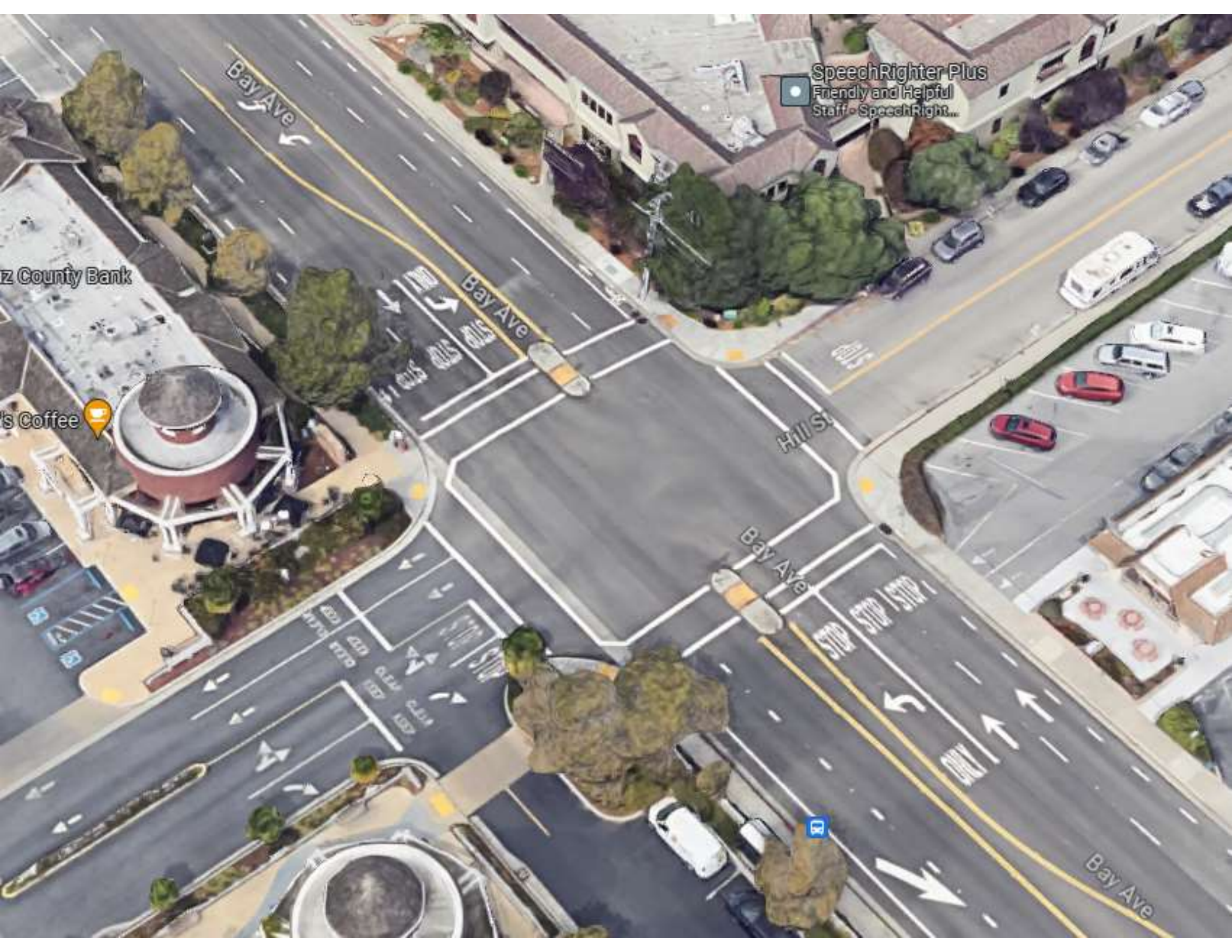


Bay Avenue and Hill Street Traffic Safety

City Council

September 28, 2023





Bay Ave

SpeechRighter Plus
Friendly and Helpful
Staff - SpeechRighter...

County Bank

Coffee

Bay Ave

Hill St

Bay Ave

Bay Ave



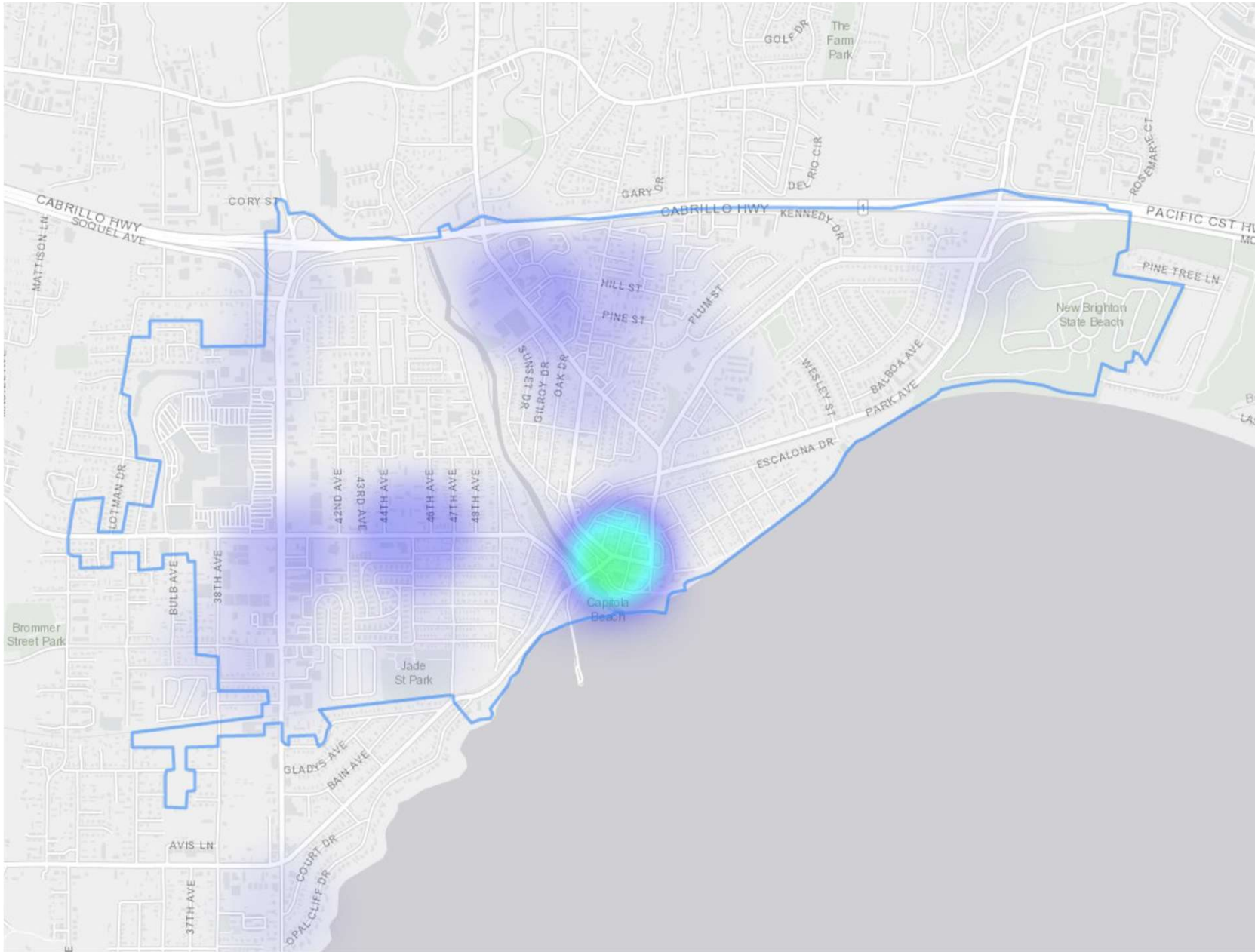
Bay Avenue and Hill Street Traffic Safety

Accident Data: Nov 2017 – Aug 2023



Vehicle Collision Type	Count	Primary Collision Factor	Collision Severity
Head On	1	Other	Property Damage
Sideswipe	4	Improper Turn, Auto R/W	Property Damage
Rearend	1	Unsafe Speed	Property Damage
Broadside	6	Improper Turn, Auto R/W, Unsafe Speed	Injury, PDO
Hit Object	1	Improper Turn	Property Damage
Auto/Ped	3	Failure to Yield	Injury

Bay Avenue and Hill Street Traffic Safety Pedestrian Accidents



Bay Avenue and Hill Street Traffic Safety Evaluation Criteria



Level of Service - LOS

- Level of traffic flow
- Currently LOS C

Queue Length

- Space needed to stack
- Turning and through Lanes

Bike and Pedestrian Access

- Visibility
- Crossing distance

Bay Avenue and Hill Street Traffic Safety Alternatives



All-way Stop Control

Signal Control

Roundabout

Road Diet



Bay Avenue and Hill Street Traffic Safety Signalized Intersection



Bay Avenue and Hill Street Traffic Safety Signalized Intersection



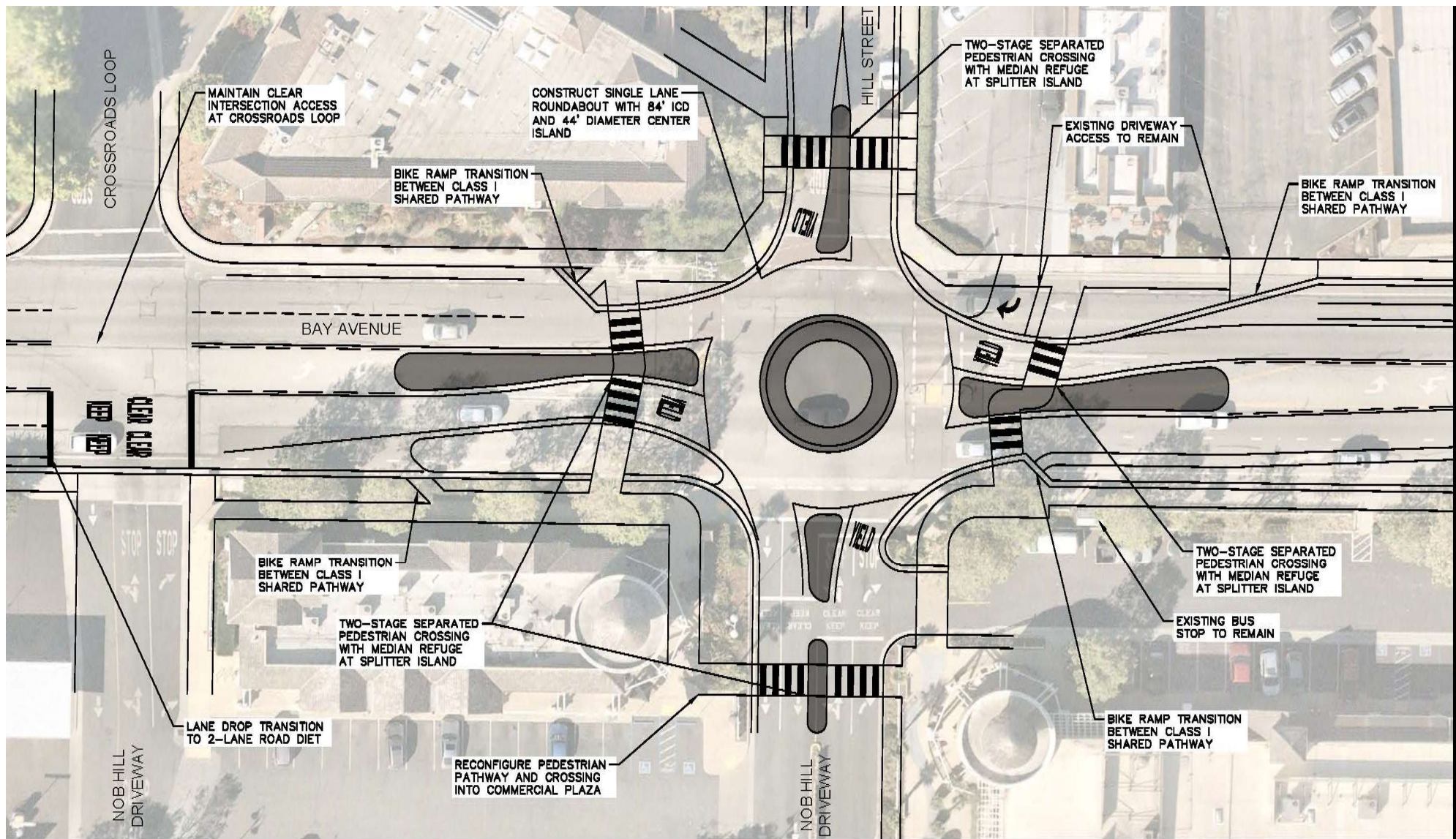
Pros

- Reduces driver uncertainty
- Provides designated crossing times

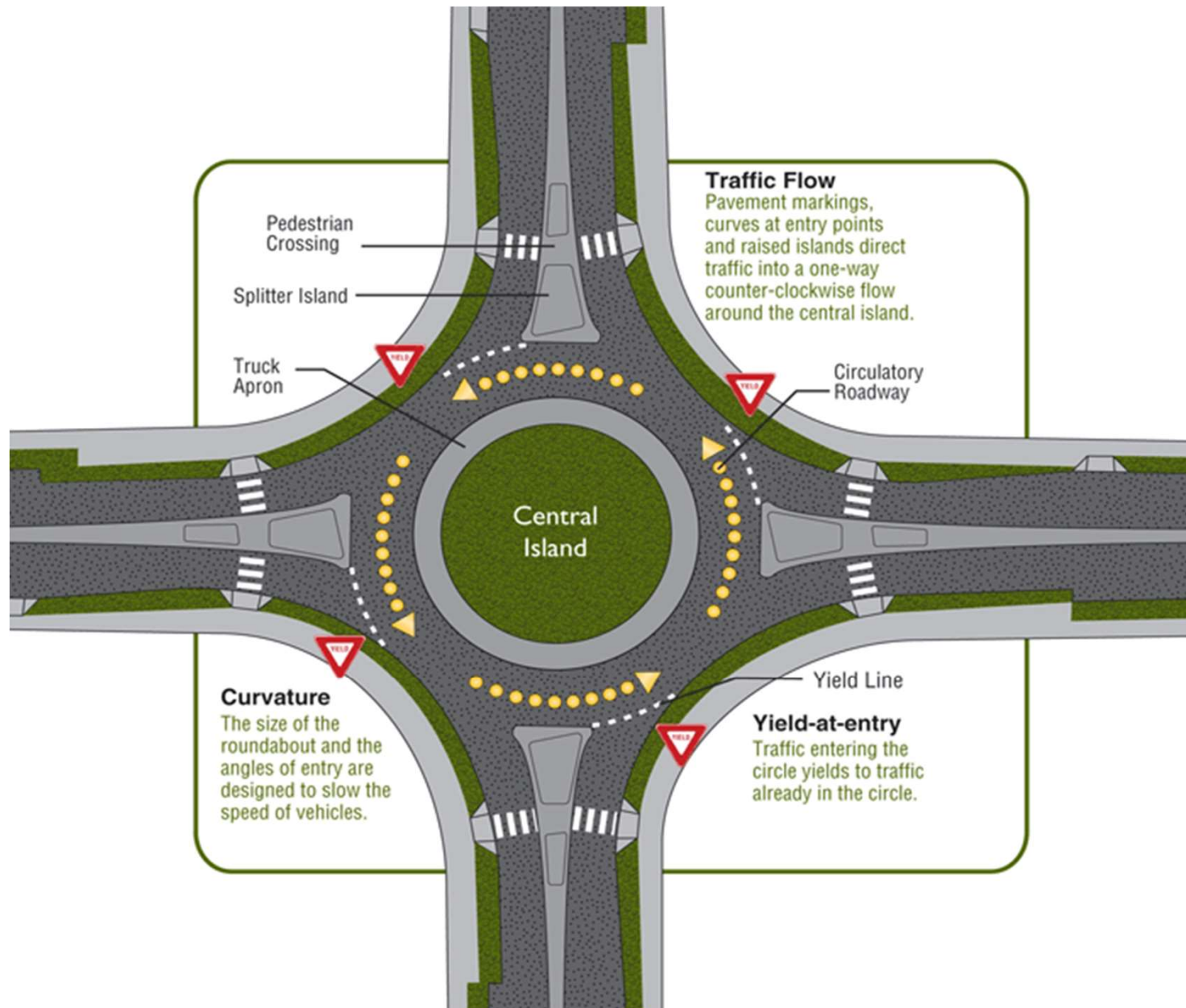
Cons

- High capital and maintenance costs
- Increased accident rate
- Aesthetics
- Increased idle time

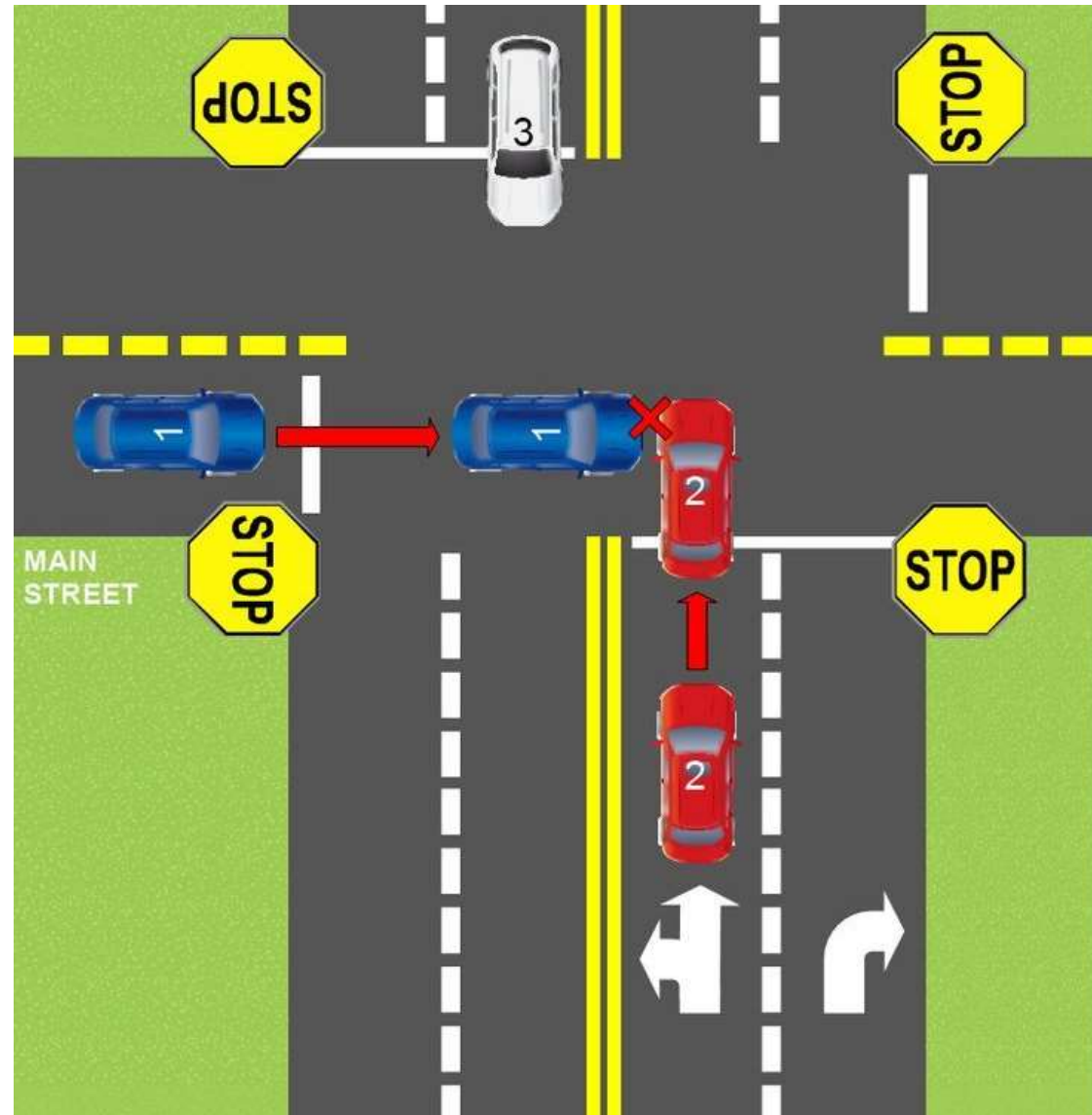
Bay Avenue and Hill Street Traffic Safety Roundabout



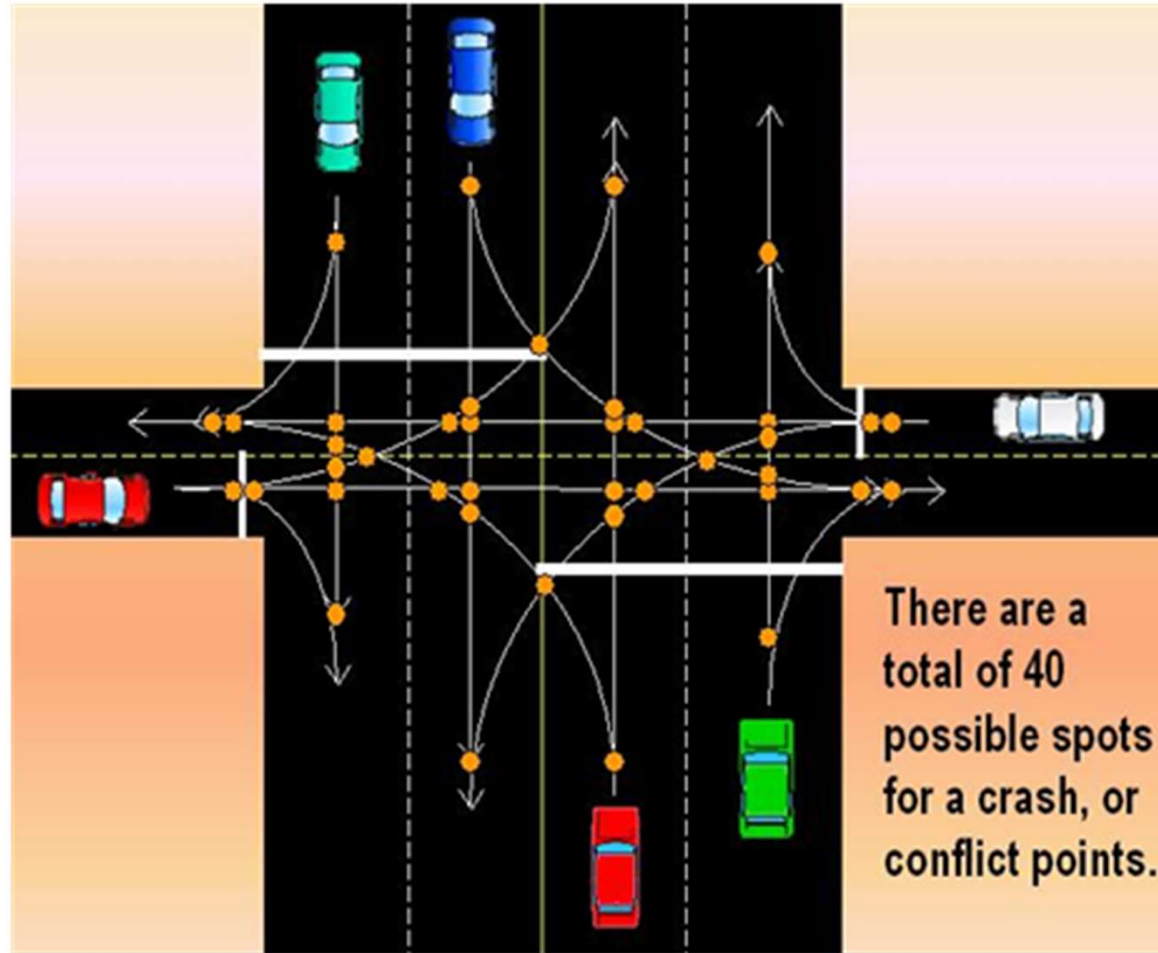
Bay Avenue and Hill Street Traffic Safety Roundabout



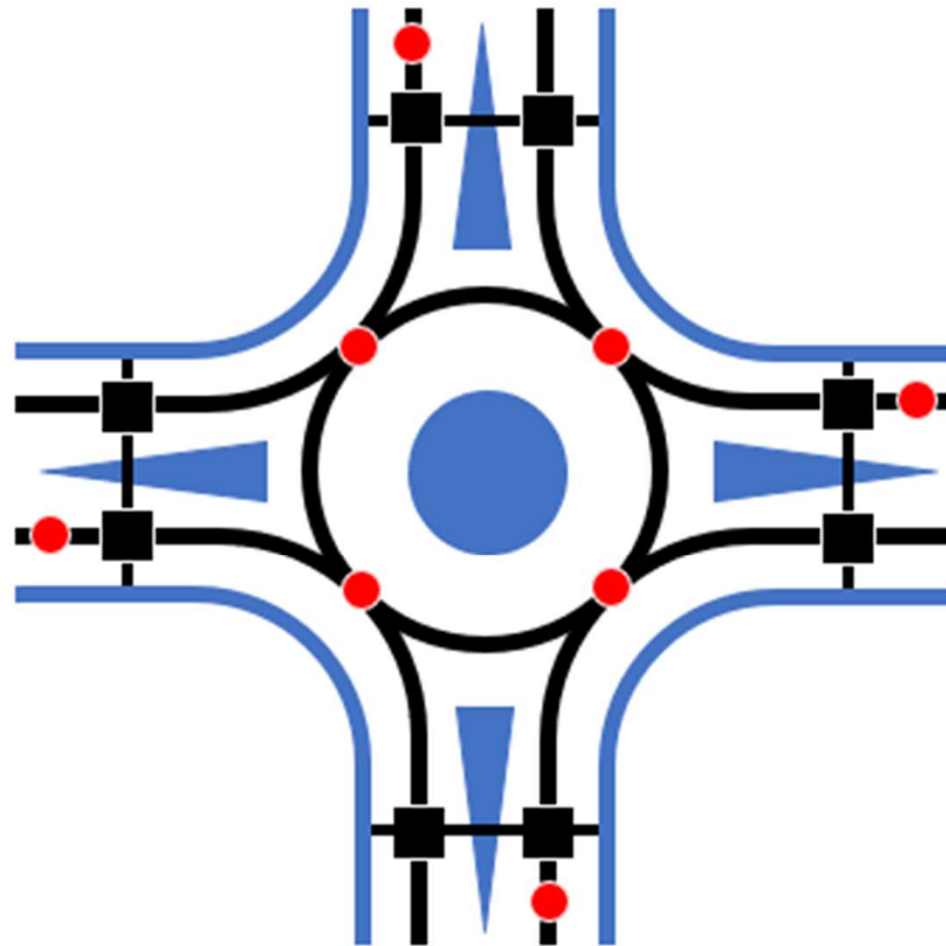
Bay Avenue and Hill Street Traffic Safety Roundabout – Conflict Points



Bay Avenue and Hill Street Traffic Safety Roundabout – Conflict Points



Bay Avenue and Hill Street Traffic Safety Roundabout – Conflict Points



- 8 Vehicle Conflicts
- 8 Pedestrian Conflicts

Bay Avenue and Hill Street Traffic Safety Roundabout



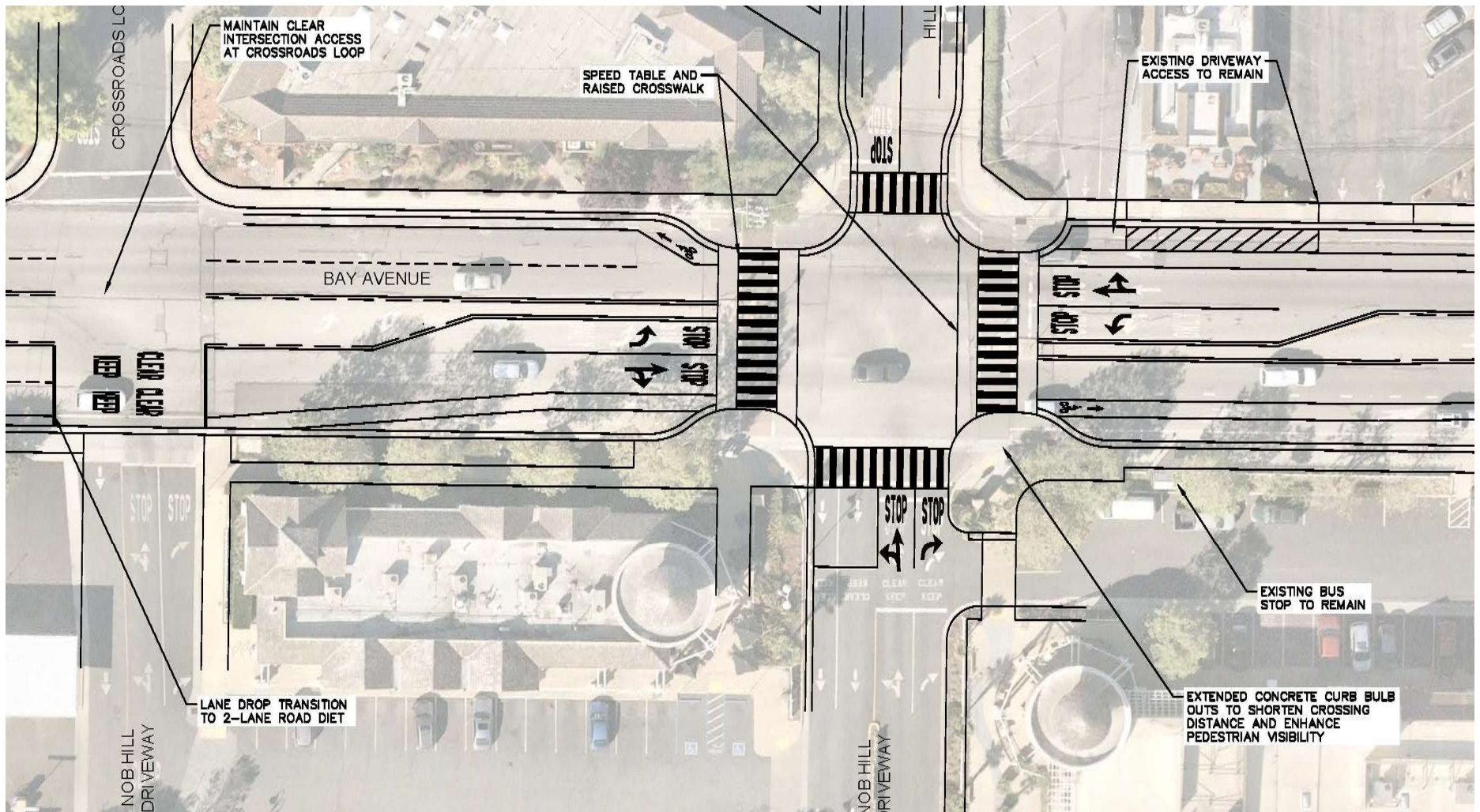
Pros

- Reduction in conflict points for vehicles and pedestrians
- Shortened crossing distances
- Improved LOS
- Reduced GHG emissions

Cons

- High initial capital cost
- Driver uncertainty

Bay Avenue and Hill Street Traffic Safety Road Diet

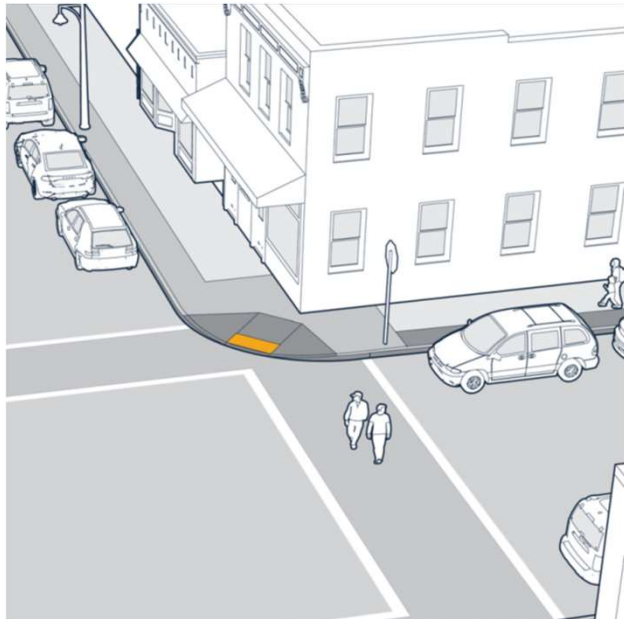


Bay Avenue and Hill Street Traffic Safety

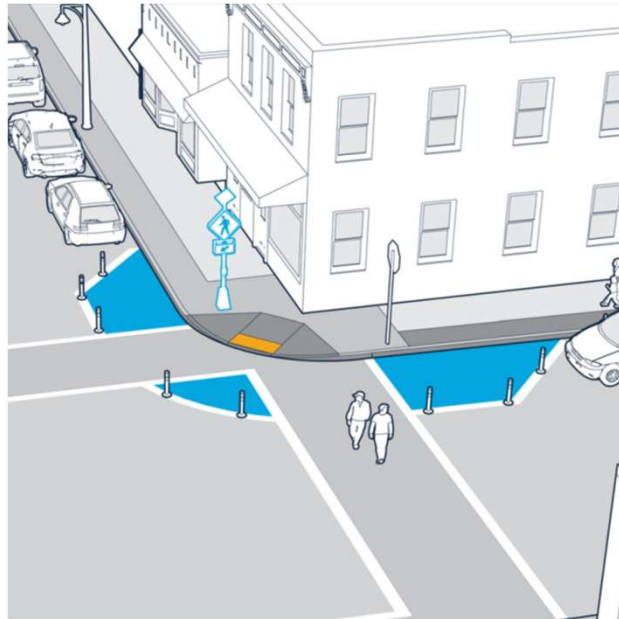
Road Diet "Quick Build"



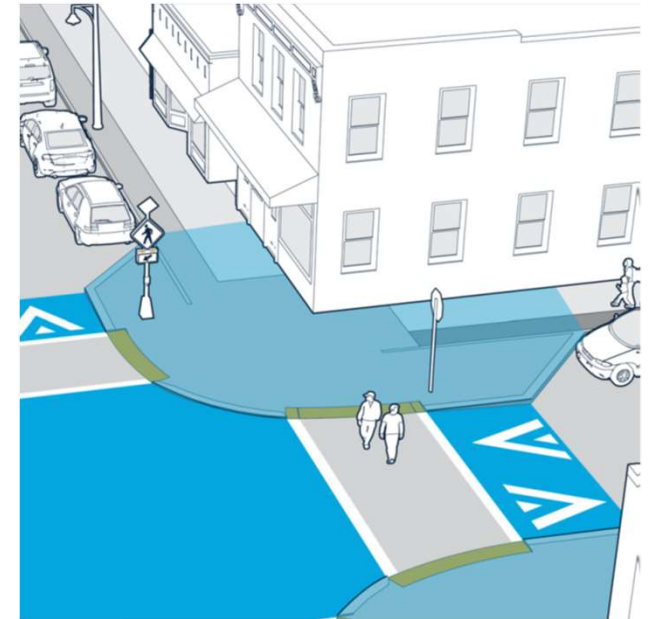
Existing condition



Interim curb extension (paint and delineators)

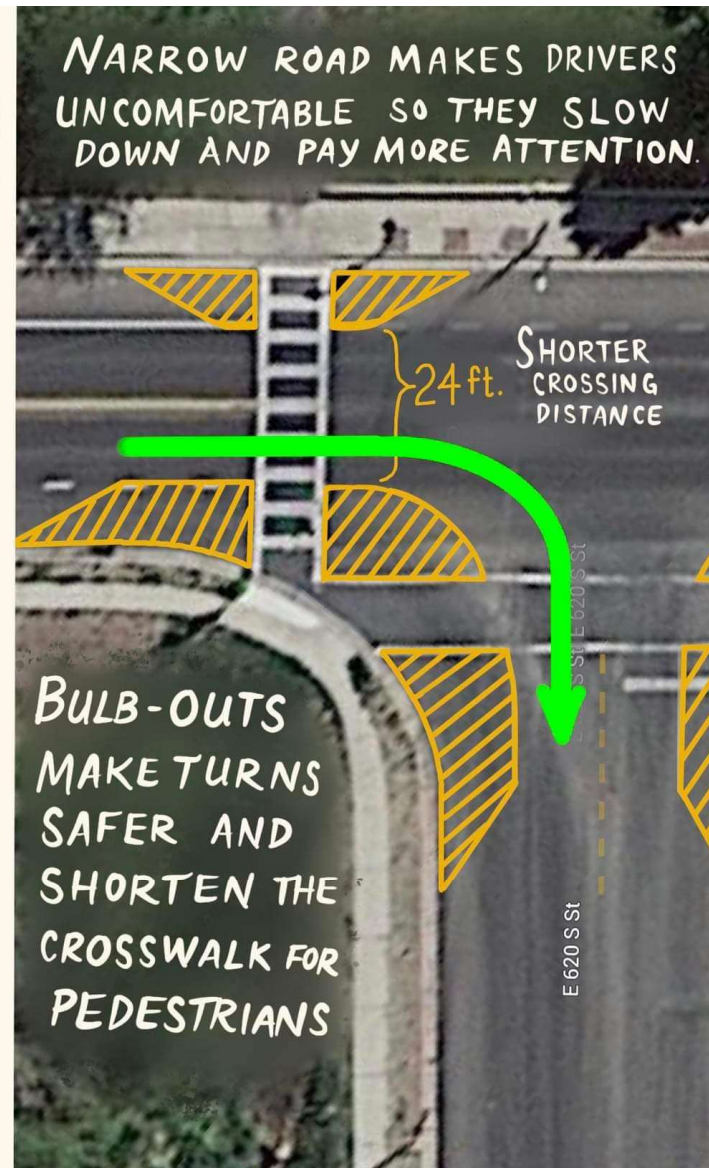
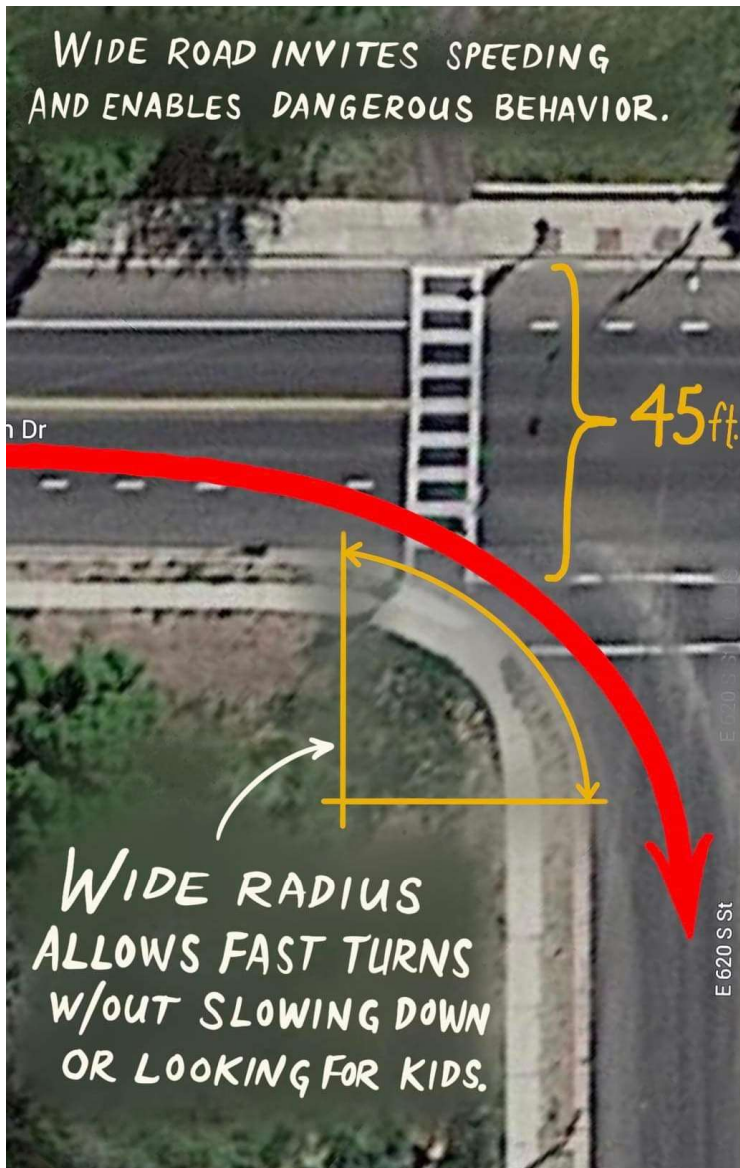


Permanent curb extension and raised intersection



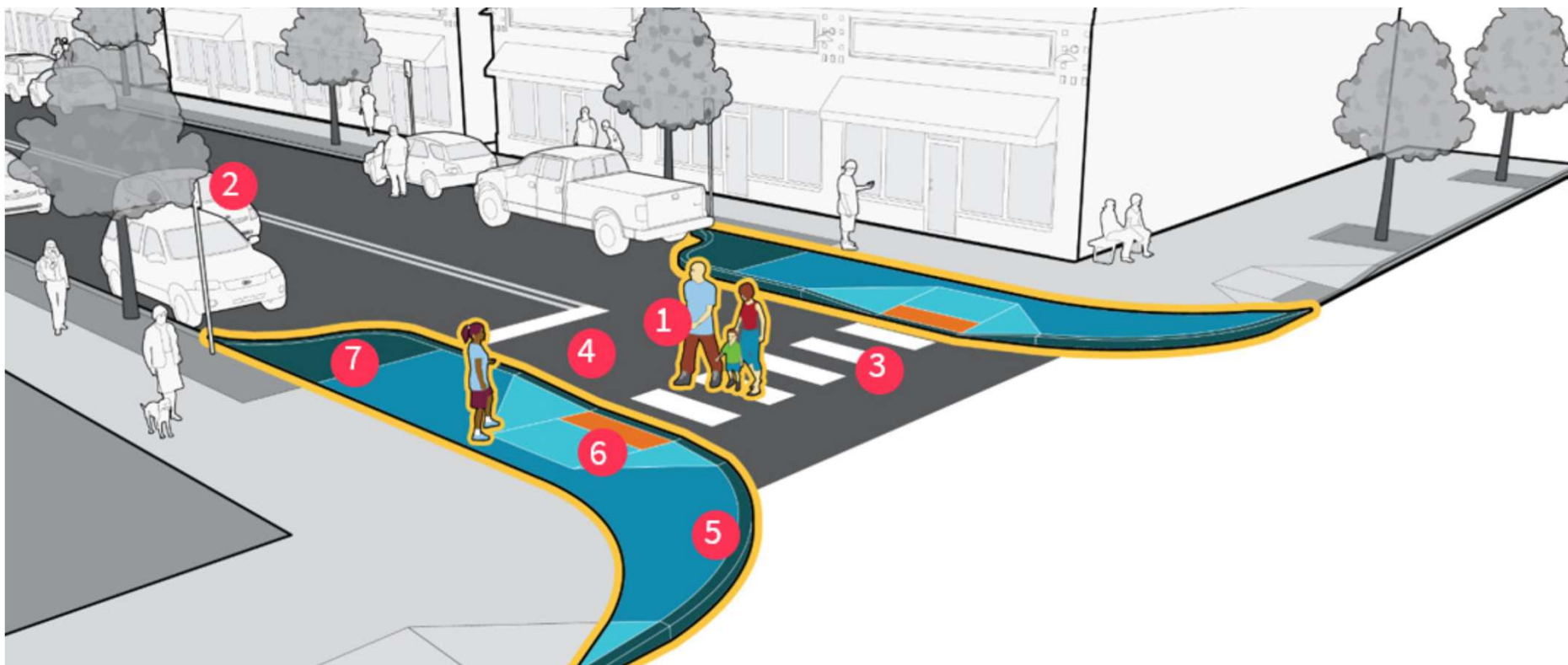
Bay Avenue and Hill Street Traffic Safety

Road Diet – Reduced Speeds



Bay Avenue and Hill Street Traffic Safety

Road Diet – Increased Visibility



Bay Avenue and Hill Street Traffic Safety

Road Diet



Pros

- Improved driver certainty
- Reduced vehicle speeds
- Increased pedestrian visibility
- Shortened crossing distances

Cons

- Decreased LOS
- Increased queueing

Bay Avenue and Hill Street Traffic Safety Alternatives Summary



	Signal	Roundabout	Road Diet
LOS			
Queueing			
Collision Frequency			
Pedestrian Mobility			
Pedestrian Safety			
Construction Cost			
Aesthetics			
GHG emissions			

Bay Avenue and Hill Street Traffic Safety Road Diet "Quick Build" Examples



Bay Avenue and Hill Street Traffic Safety

Road Diet "Quick Build" Examples



Bay Avenue and Hill Street Traffic Safety

Next Steps – Staff Recommendation



Short Term

- Winter 2023: Receive feedback from adjacent properties and complete public outreach
- Spring 2024 – Spring 2026: Road Diet "Quick Build"

Long Term

- 2024: Roundabout public education/outreach
- On-going: Pursue funding options
- Summer 2026: Construct Roundabout

Bay Avenue and Hill Street Traffic Safety

Additional Slides





Next Steps - Alternatives

Short Term Options

- Road Diet "Quick Build"
- Pursue permanent alternative
- No Action

Long Term Options

- Permanent Road Diet based on outcome of "Quick Build"
- Roundabout public education, pursue funding options