

May 25, 2022



# Lincoln Avenue/Marshall Way/ Pacific Avenue

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Improvement Project



# Agenda & workshop purpose

- Project background
- Existing conditions
- Community input
- Improvement toolkit
- Discussion
- Next steps



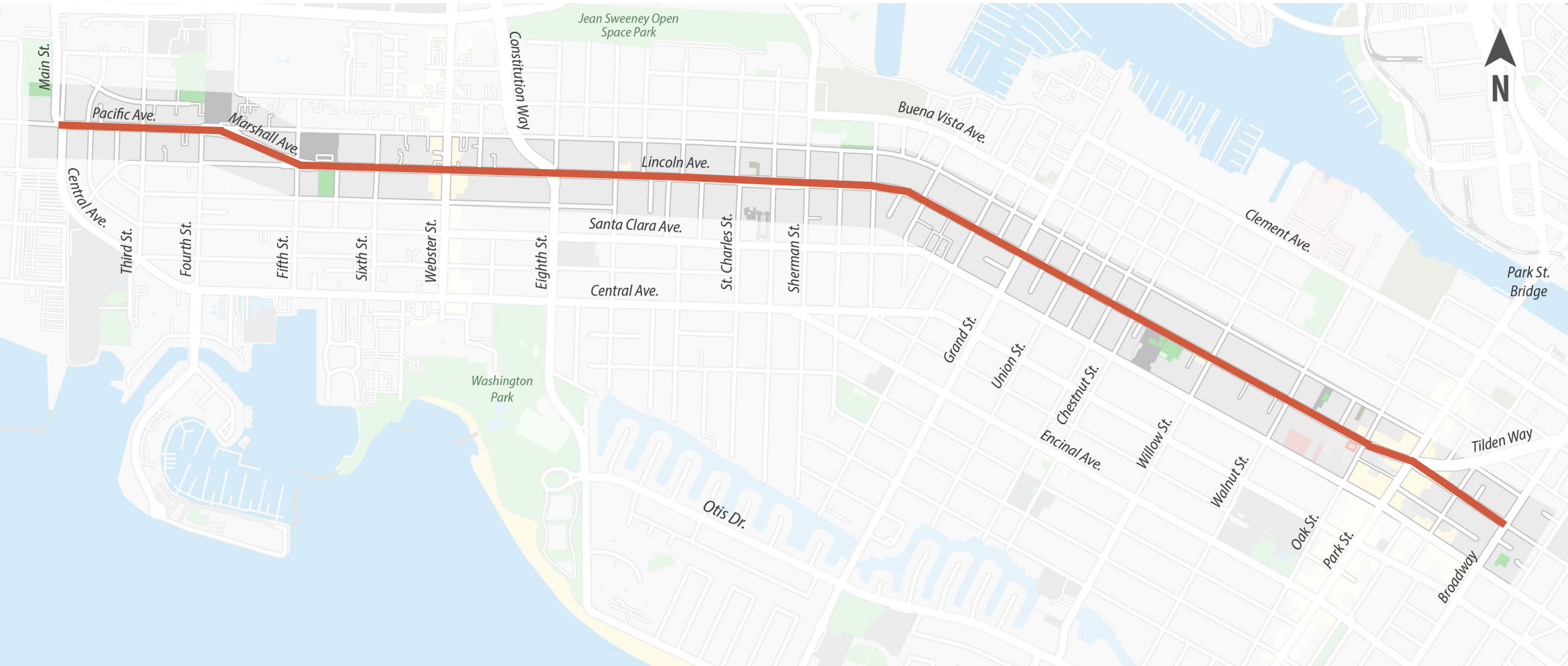
*Park St. and Lincoln Ave. Intersection, looking east.*

# Project Background

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# Pacific Ave. / Main St. / Central Ave. to Lincoln Ave. / Broadway is 3.1 miles long






# Project goals



- Promote safety by prioritizing Vision Zero
  - Improve mobility for all users, including AC Transit buses
  - Improve pavement for better operations and user experience, and reduce maintenance
  - Provide flood reduction and landscaping
  - Reduce greenhouse gas emissions by improving traffic flow and shifting to walking, bicycling and transit
  - Comply with City plans and policies including the City's General Plan update and Draft Active Transportation Plan
-

# Project workflow



Existing  
Conditions  
Assessment  
(early 2022)

The diagram consists of four chevron-shaped boxes arranged horizontally from left to right. The first box is orange with a red dashed border. The second box is yellow. The third box is a lighter yellow. The fourth box is a greenish-yellow. All boxes point to the right. The text inside each box describes a step in the project workflow.

Alternatives  
Analysis &  
Refinement  
(late 2022)

Design of  
Early Action  
Improvements  
(2023)

1st Phase of  
Construction  
(2023 to 2024)

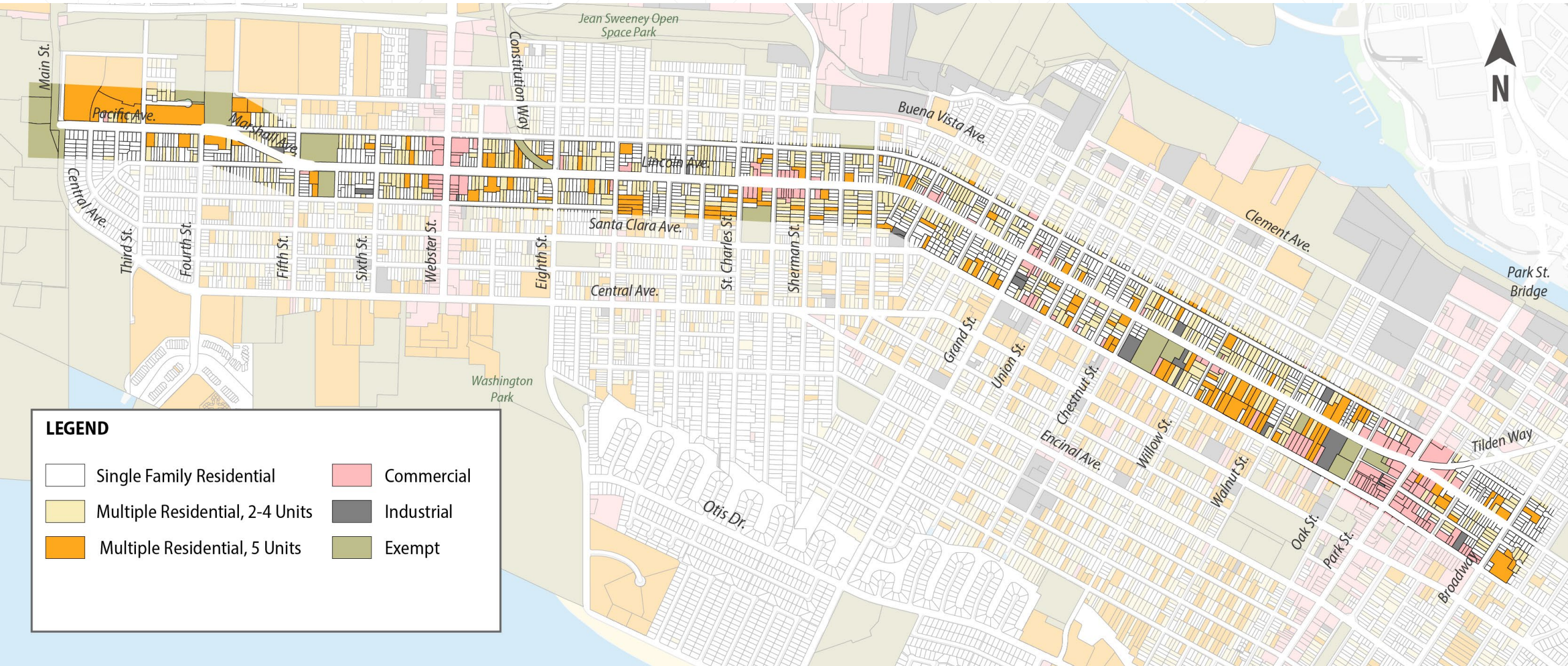
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# Existing Conditions

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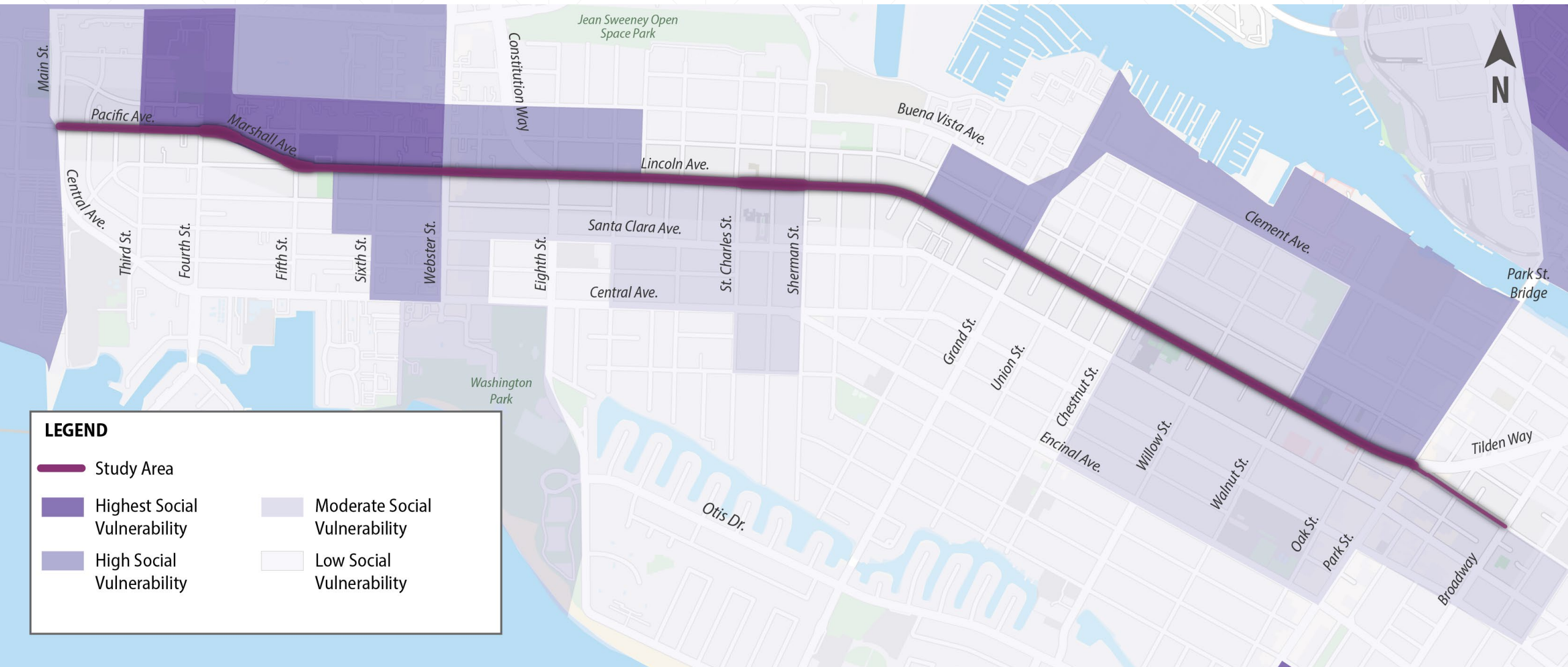
# Land uses are primarily residential with a mix of commercial



Source: City of Alameda

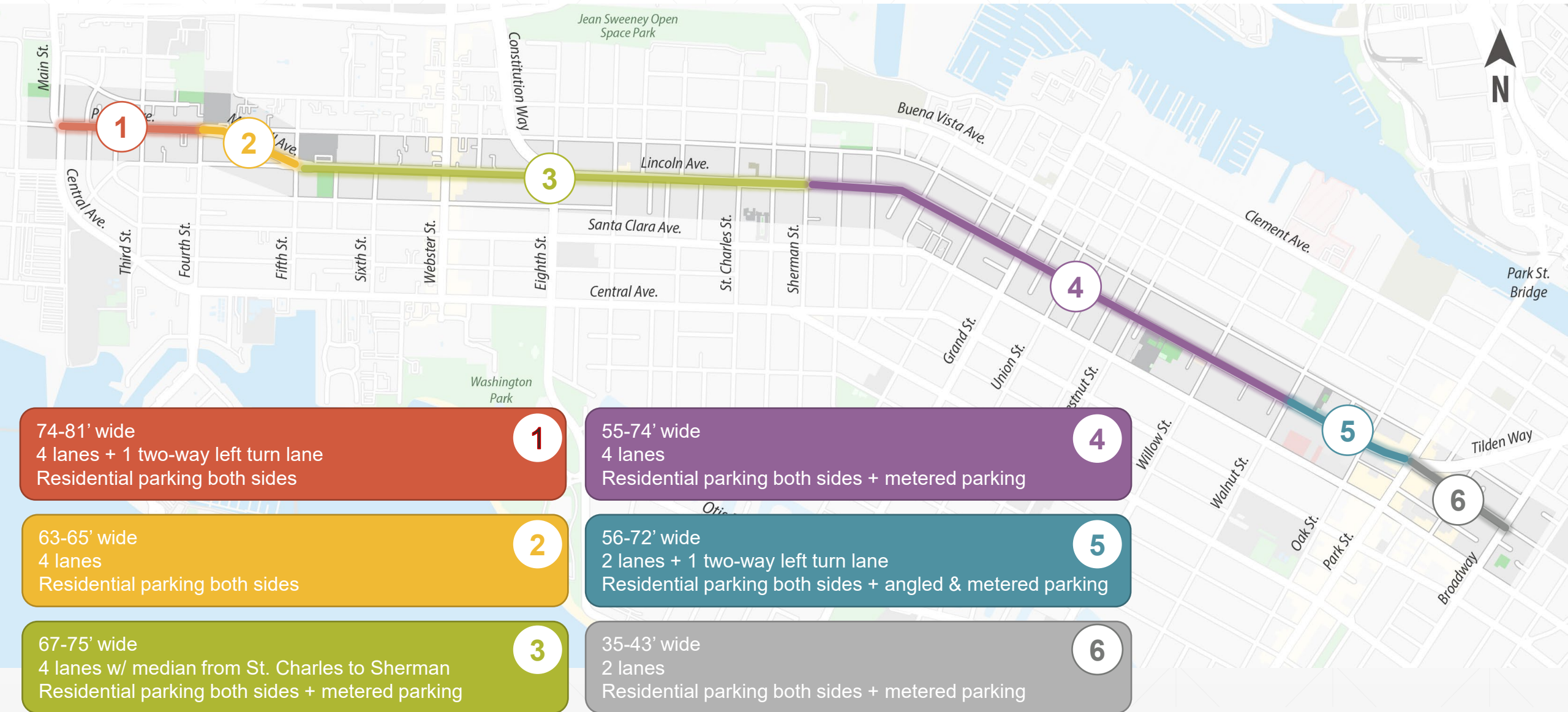


# Equity priority areas for Alameda



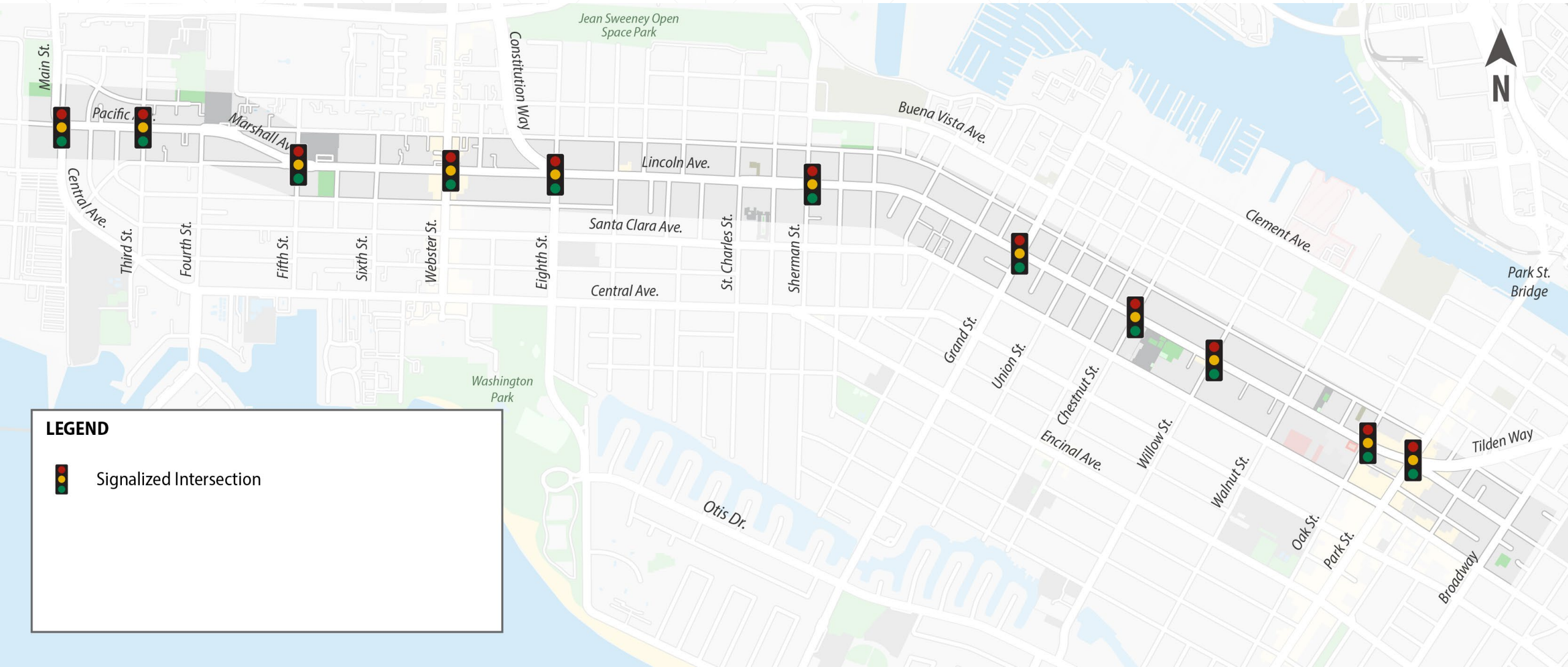
**Source: SF Bay Conservation & Development Commission Open Data Portal**

# Multi-lane segments with varied widths and lane configurations

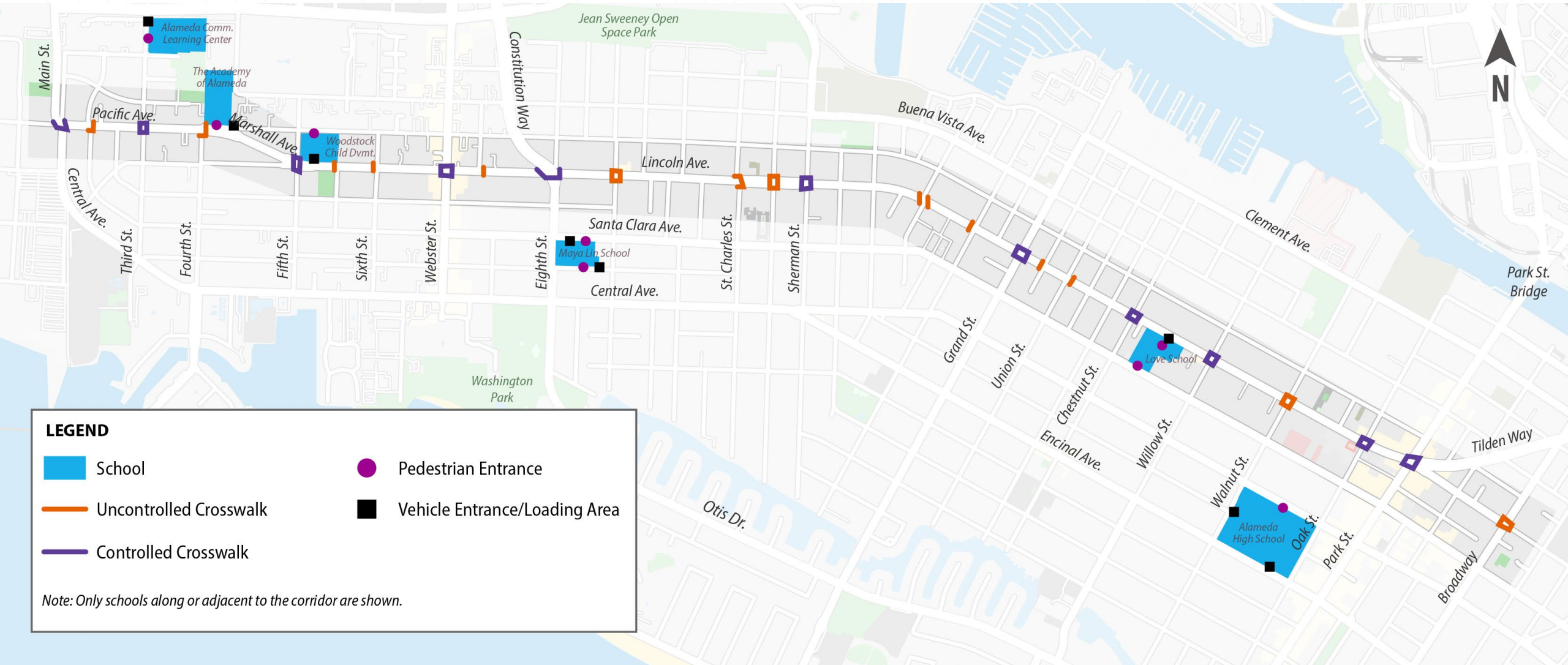




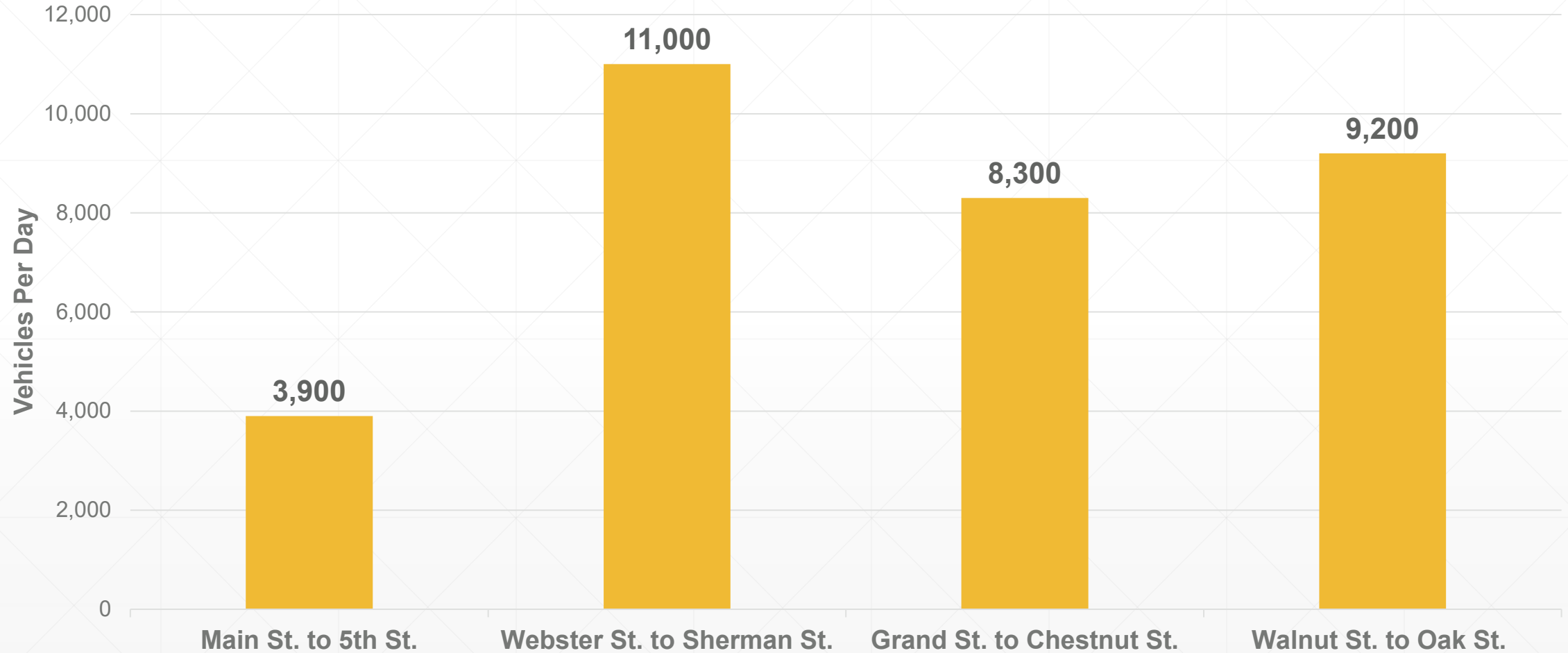
# Traffic signals are spaced an average of one quarter mile apart



# Marked crosswalks are spaced an average of 400 feet apart; 54% of these are signalized

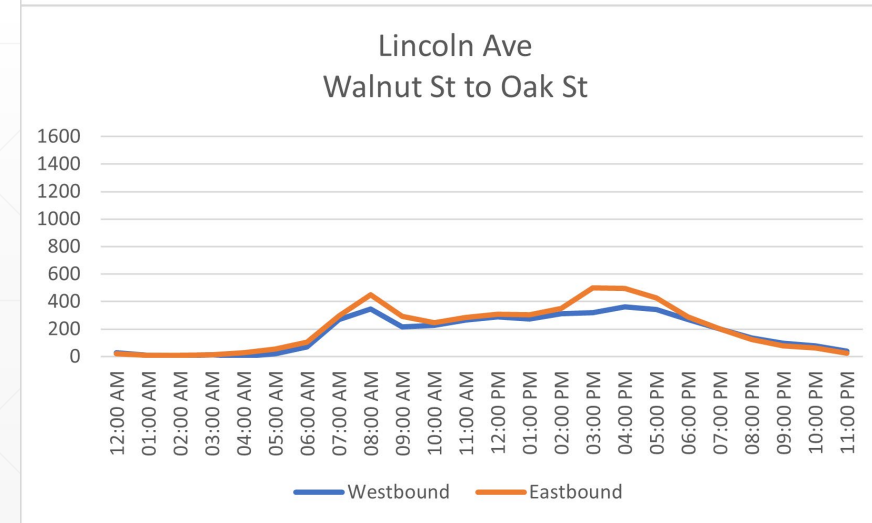
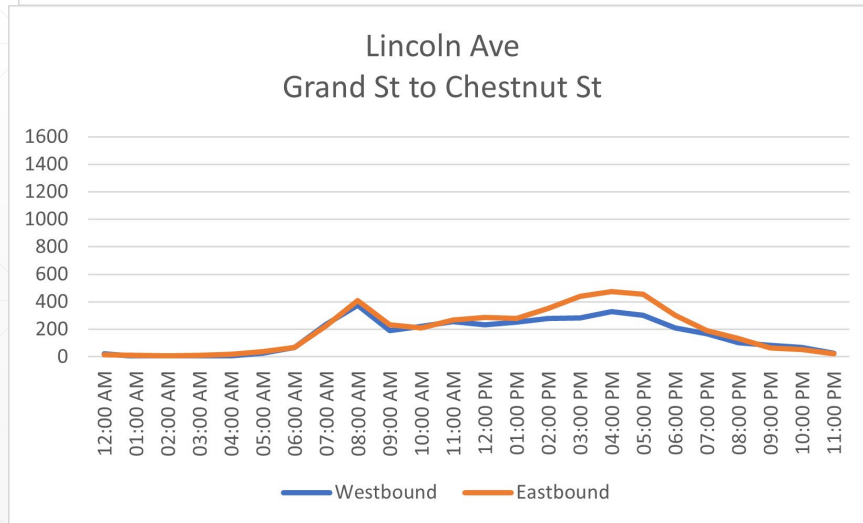
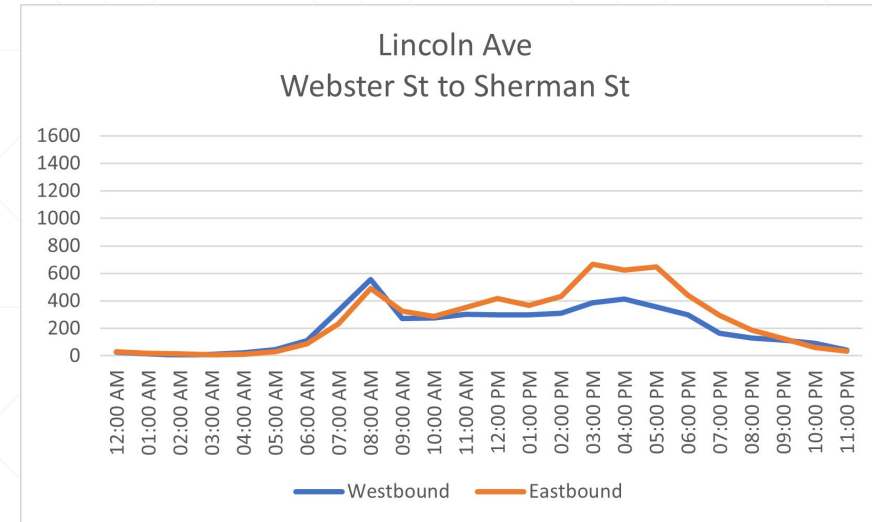
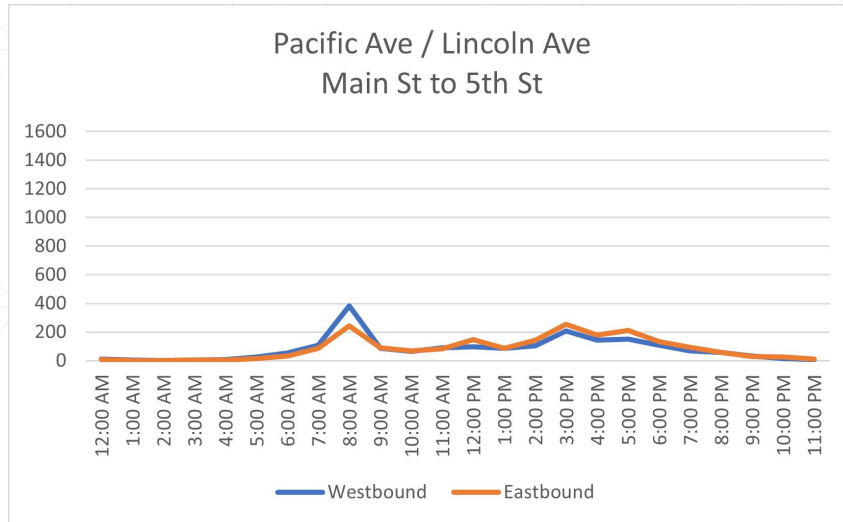


**Average daily traffic (ADT) along the roadway is between 3,900 and 11,000 vehicles per day**



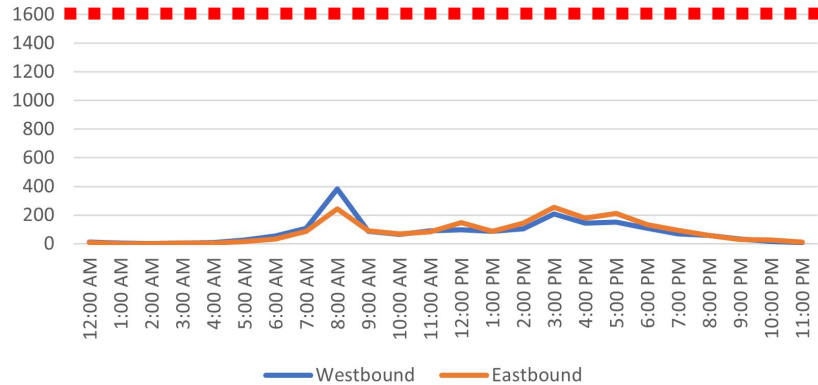


# The roadway carries 200 to 700 vehicles per hour in each direction

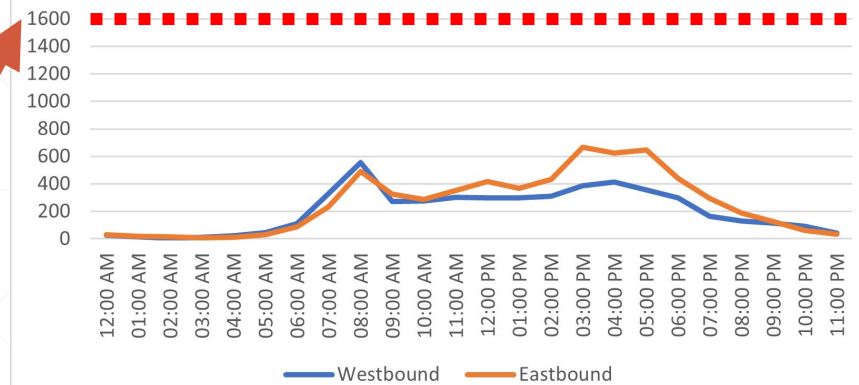


# The roadway's capacity is over 2 times what it currently carries

Pacific Ave / Lincoln Ave  
Main St to 5th St

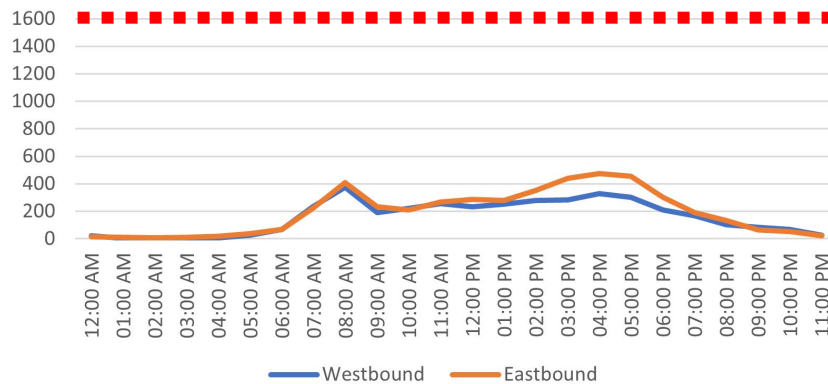


Lincoln Ave  
Webster St to Sherman St

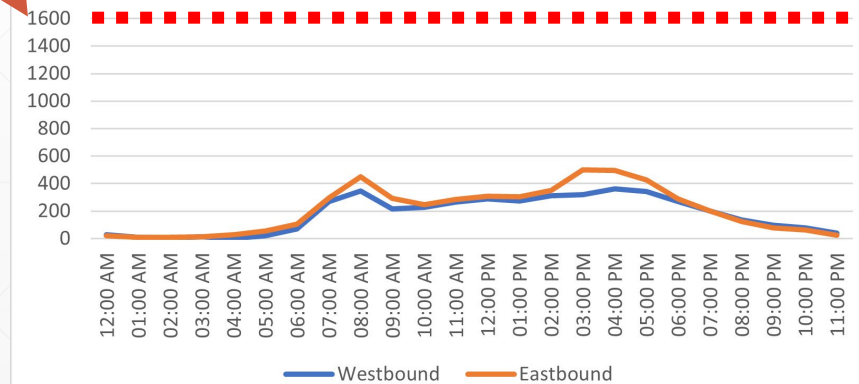


The roadway was designed to accommodate up to 1,600 vehicles per hour in each direction

Lincoln Ave  
Grand St to Chestnut St



Lincoln Ave  
Walnut St to Oak St



# The corridor has an existing speed limit of 25 mph, but observed speeds are often higher

- 85<sup>th</sup> percentile range
  - Westbound: 30 – 33 mph
  - Eastbound: 29 – 34 mph
- 4 vehicle feedback speed limit signs on corridor
- Large street widths relate to higher speeds





# Lincoln Avenue is a high injury corridor

258

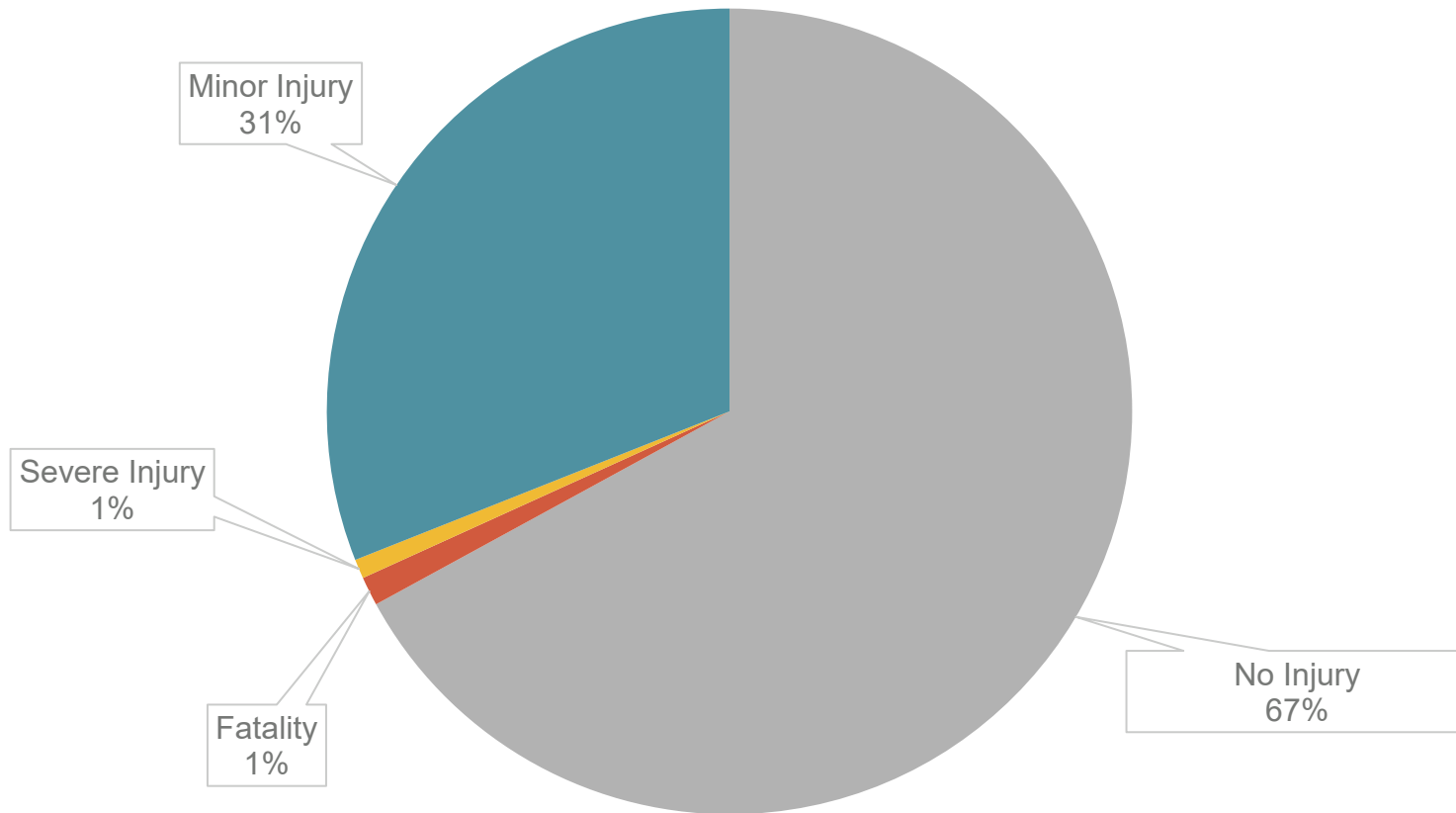
crashes from 2017-2021



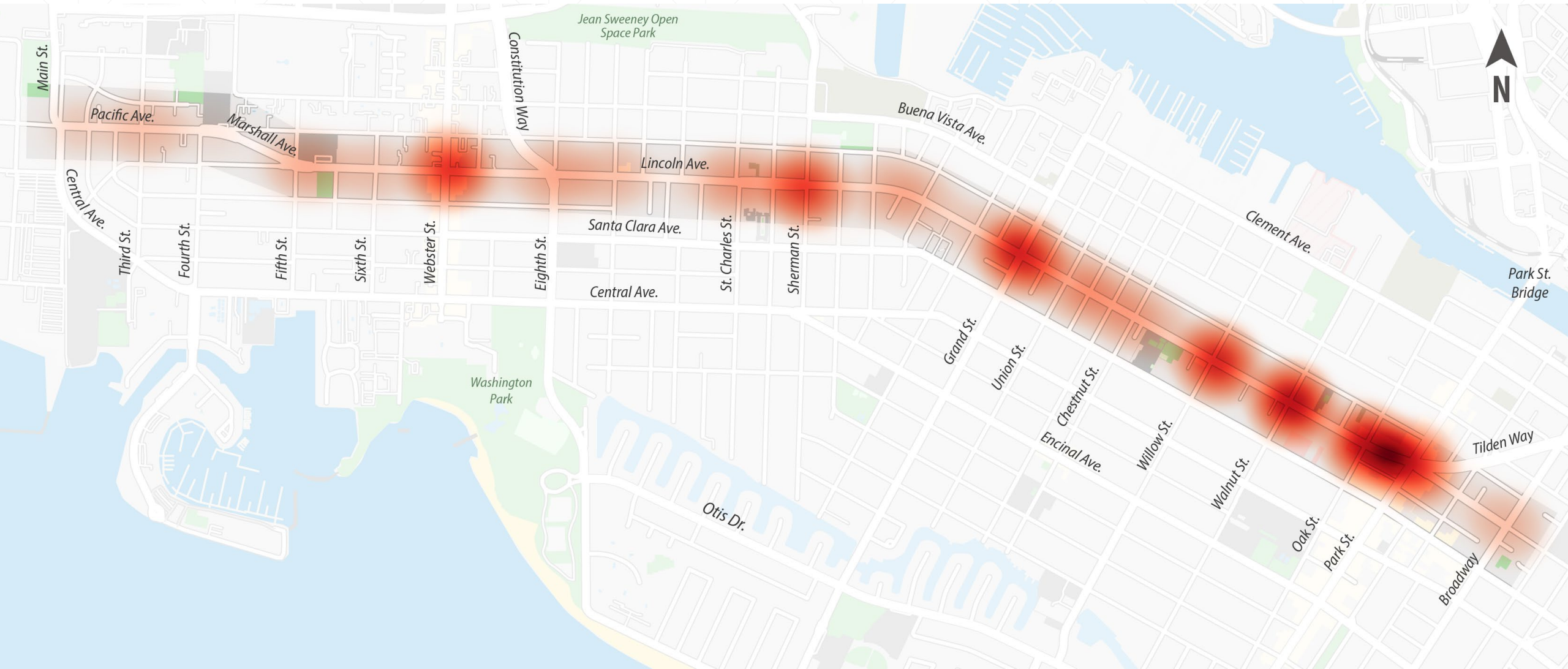
17 crashes involved pedestrians and  
11 crashes involved cyclists

# Of the 258 crashes on the corridor...

There were **3 fatal crashes** and **2** resulting in severe injury.

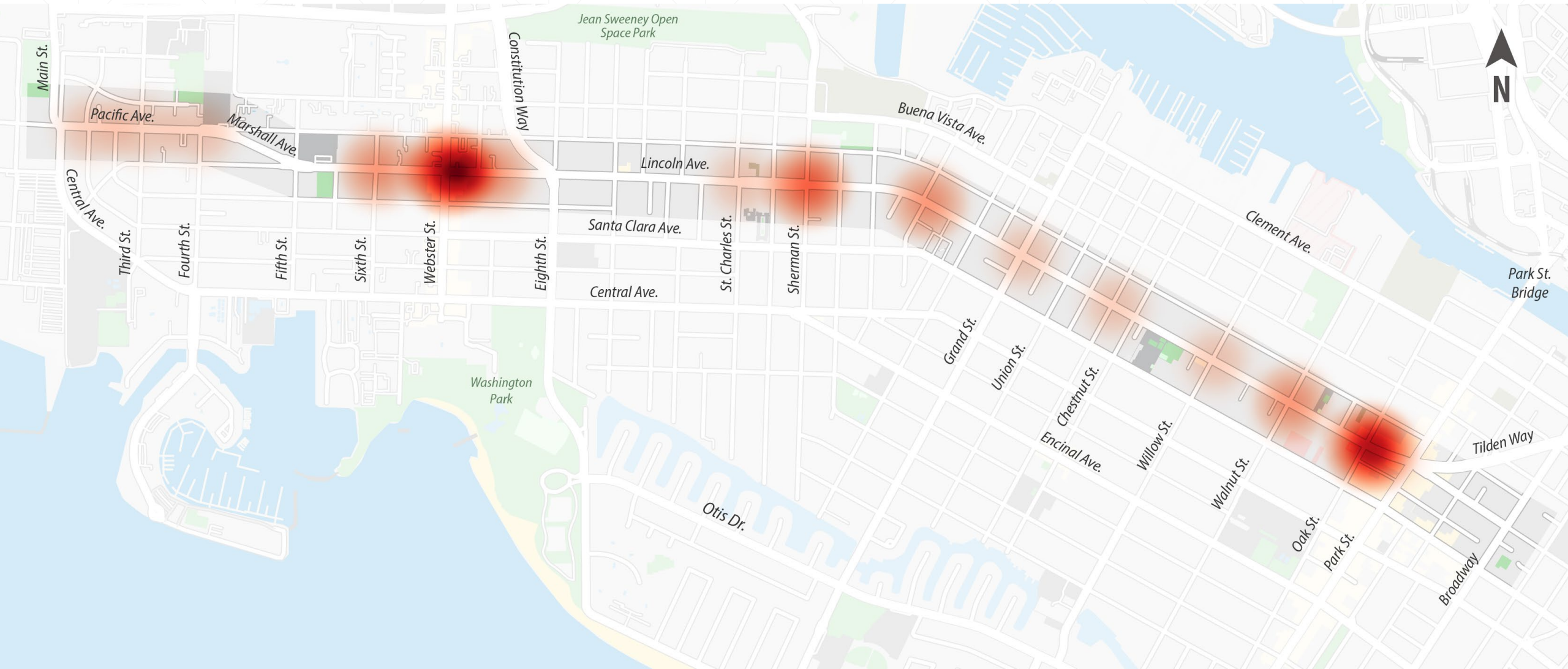


# Hot spots for all crashes increase to the east



**2017 - 2021**

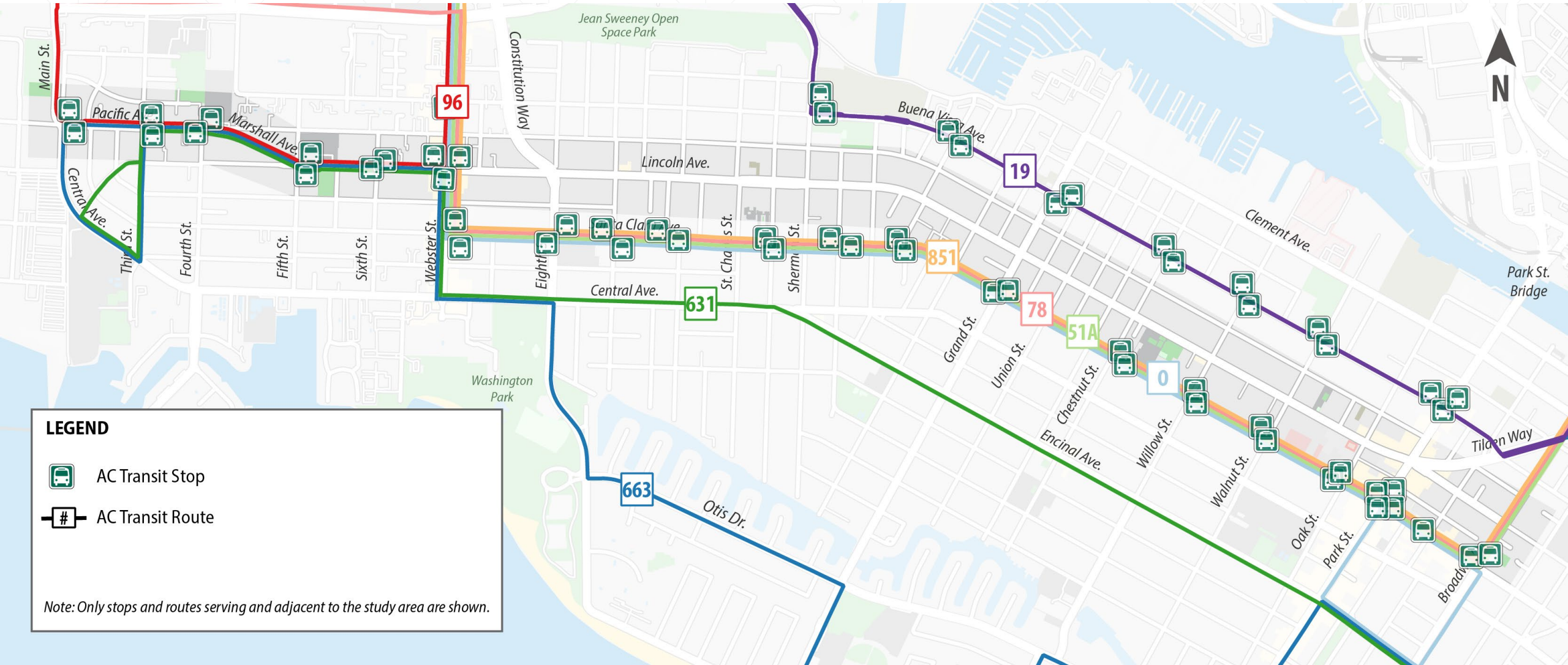
# Two hot spots for bicycle and pedestrian crashes are near Webster St. and Park St.



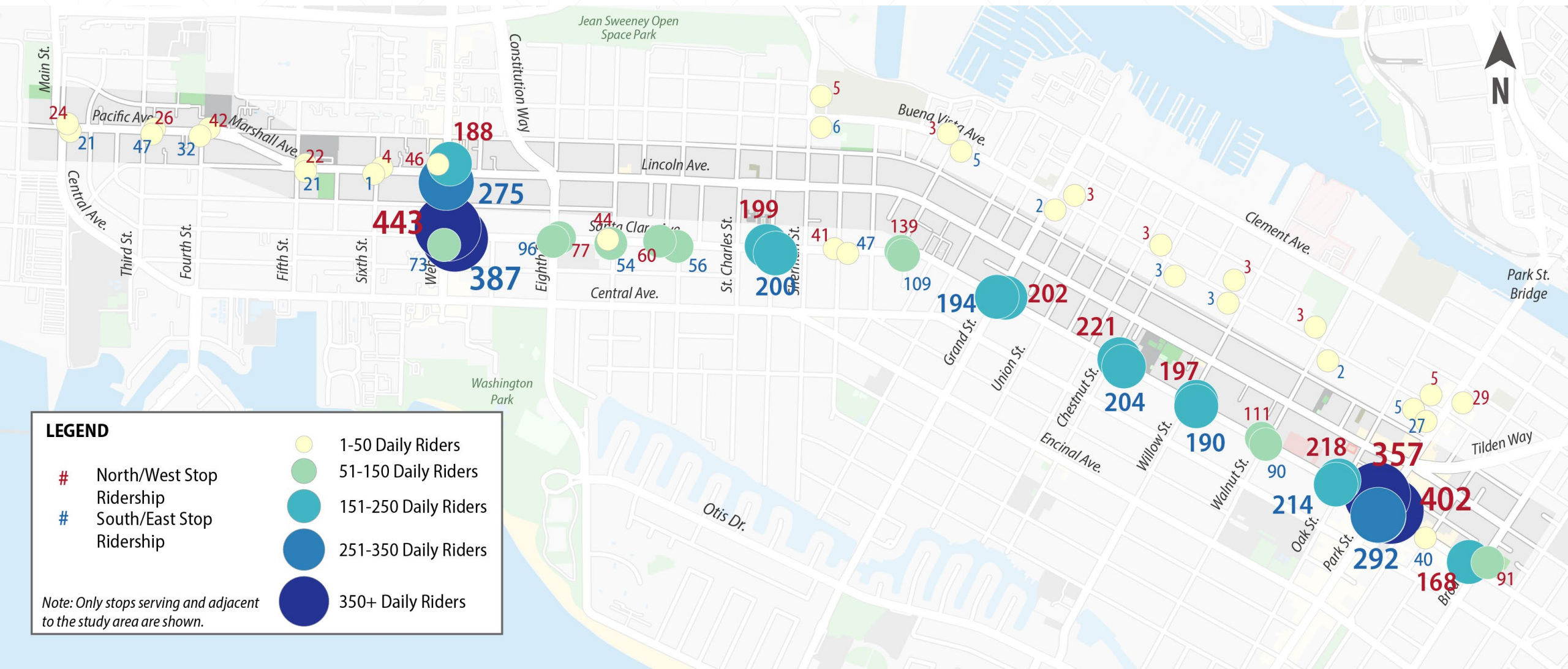
2017 - 2021



# 3 bus routes serve Pacific Ave. and Marshall Way; no bus routes travel on Lincoln Ave.



# Substantial bus use generates pedestrian travel across the roadway





# There are no existing bicycle lanes along the corridor

- Existing bicycle facilities are located parallel to or crossing the study corridor
- Sharrows are on the western end of the study area – Pacific Avenue
- Similar to pedestrian crossings there are also long bike crossings



*Near Lincoln Ave. / Mastick Ct.*





# Community Input

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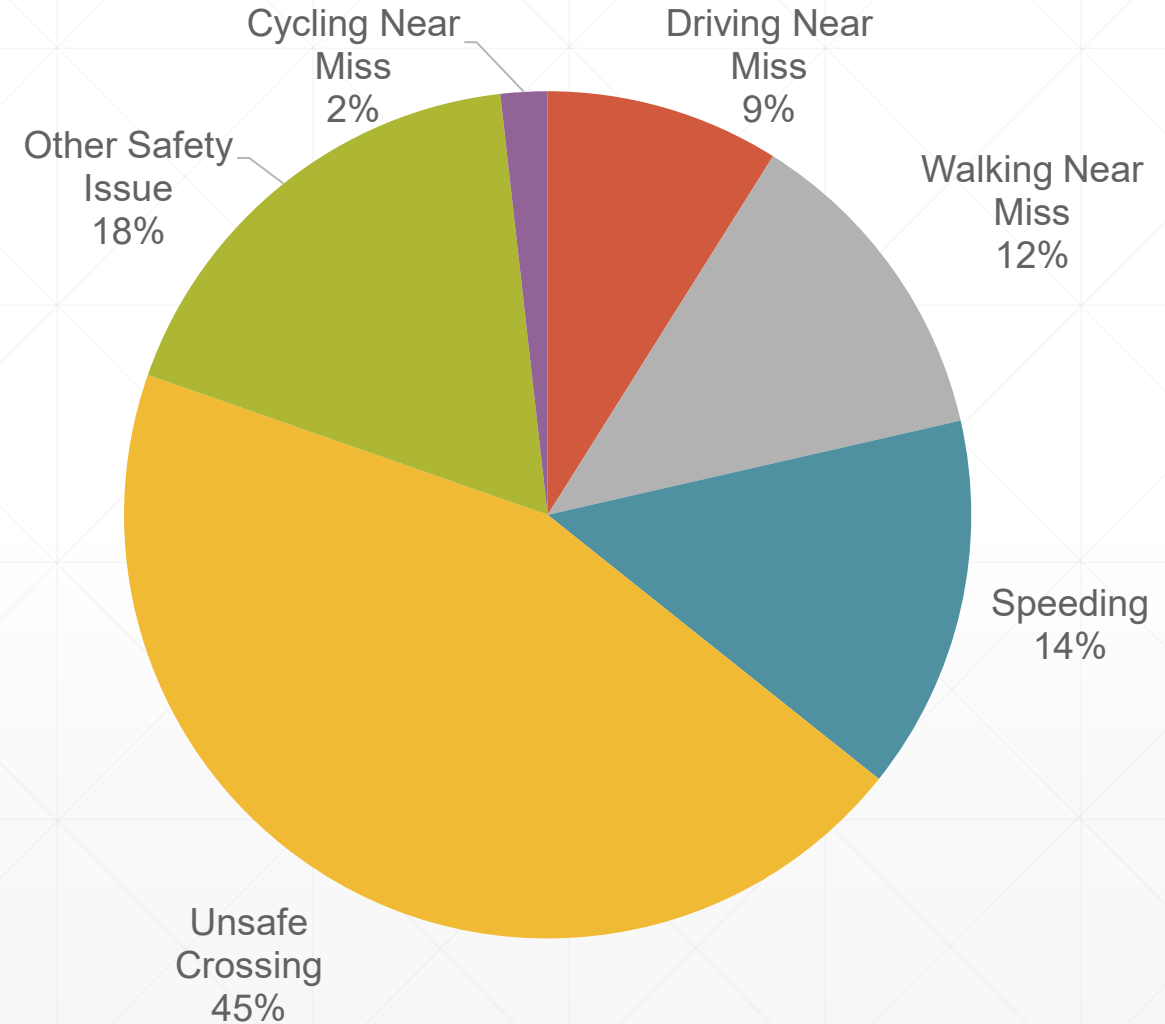
# Stakeholders for this project include:

- City of Alameda
  - Business communities
  - Neighborhood / Community members
  - AC Transit
  - School communities
-

# Alameda community members have voiced concern about the corridor

- Street Safety Concern Reports

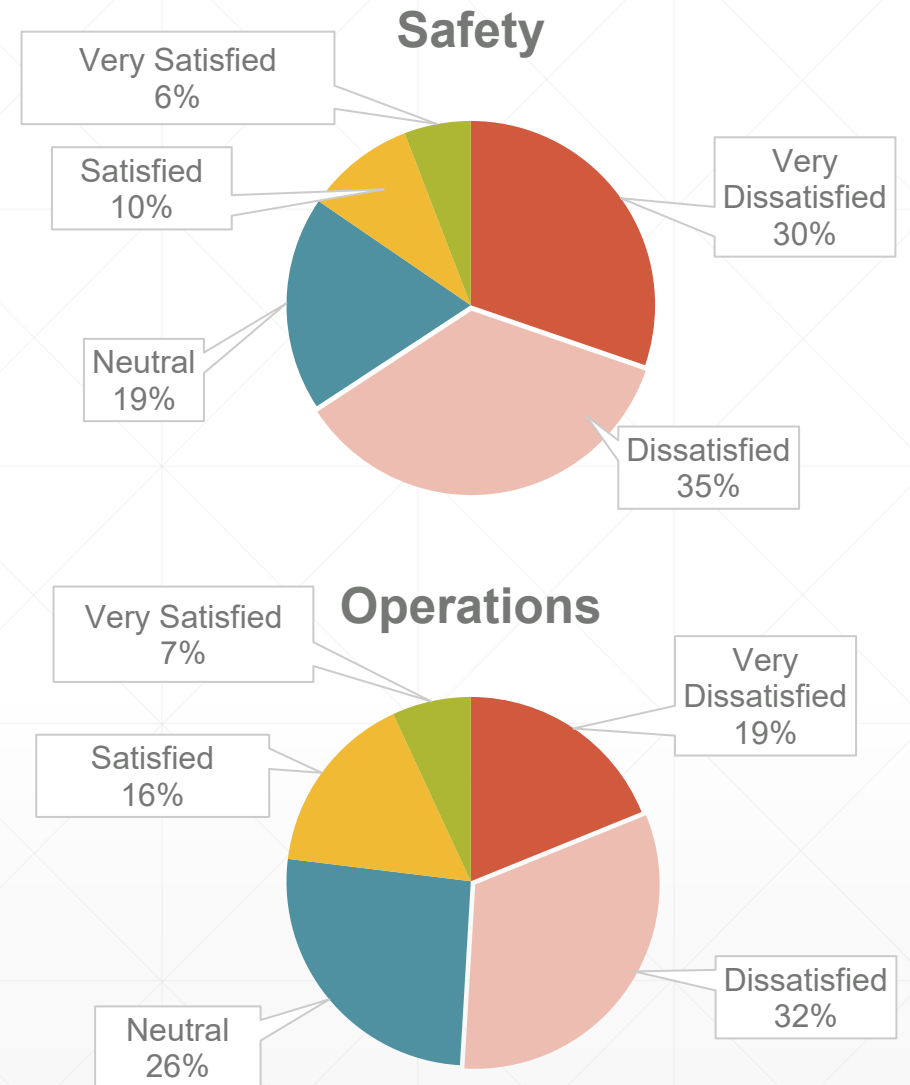
- Community members reported 56 safety concerns along the corridor from 2021 - 2022
- Reports submitted via SeeClickFix website





# Corridor online survey

- 480 respondents
- Most respondents are dissatisfied with both **safety** and **operations** throughout the corridor



# When asked to rank a solution...

- Respondents ranked core maintenance and safety as highest priority
- Respondents preferred protected bike lanes rather than bike lanes adjacent to the travel lane

<b>What are your top priorities?</b>	<b>Total</b>	<b>Use %</b>
Paving, striping, signs, crosswalks	232	67%
Safer speeds and traffic calming	228	66%
Protected bike lanes	185	53%
Flashing beacons	157	45%
Roundabouts	136	39%
GHG emission reductions	107	31%
Bike lanes adjacent to travel lane	81	23%
Enhanced bus stops and bus operations	55	16%
Landscaping and flood control	51	15%
<b>Total</b>	<b>346</b>	

# First outreach workshop – April 27

Recording

Participants in the meeting:

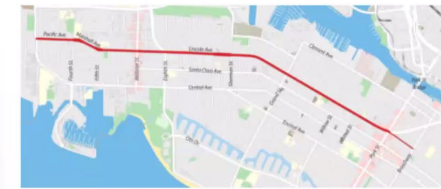
- Gail Payne, City of Alameda
- Jennifer Shriber
- Bri Adams
- David Parisi
- Areli Vazquez, City of Alameda
- Robert Vance
- Tawfic Halaby
- Cyndy Johnsen
- Jeremy Powers
- rob simpson
- Denyse Trepanier
- Julia Teitelbaum
- Michael Sullivan
- Rebecca Miller
- Jerry Serventi

## We want to hear from you!

- Did we miss anything?
- Are there any improvements you think need to be prioritized over the others?
- **Survey** is open until end of April – project webpage:

[www.alamedaca.gov/LincolnMarshallPacific](http://www.alamedaca.gov/LincolnMarshallPacific)

April 2022 Survey -  
Lincoln/Marshall/Pacific  
Improvement Project

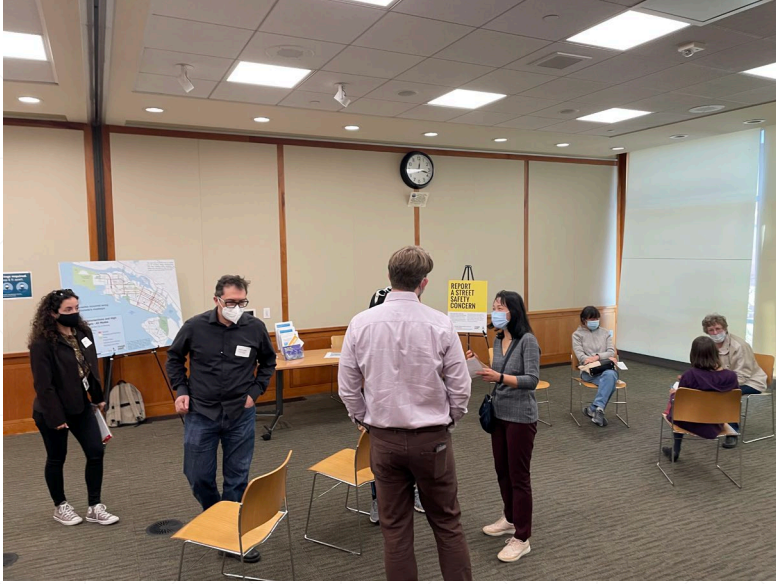


Participants in the meeting (vertical strip):

- Gail Payne, City of Alameda
- Jennifer Shriber
- Bri Adams
- David Parisi
- Areli Vazquez, City of Alameda



# First community open house – April 28





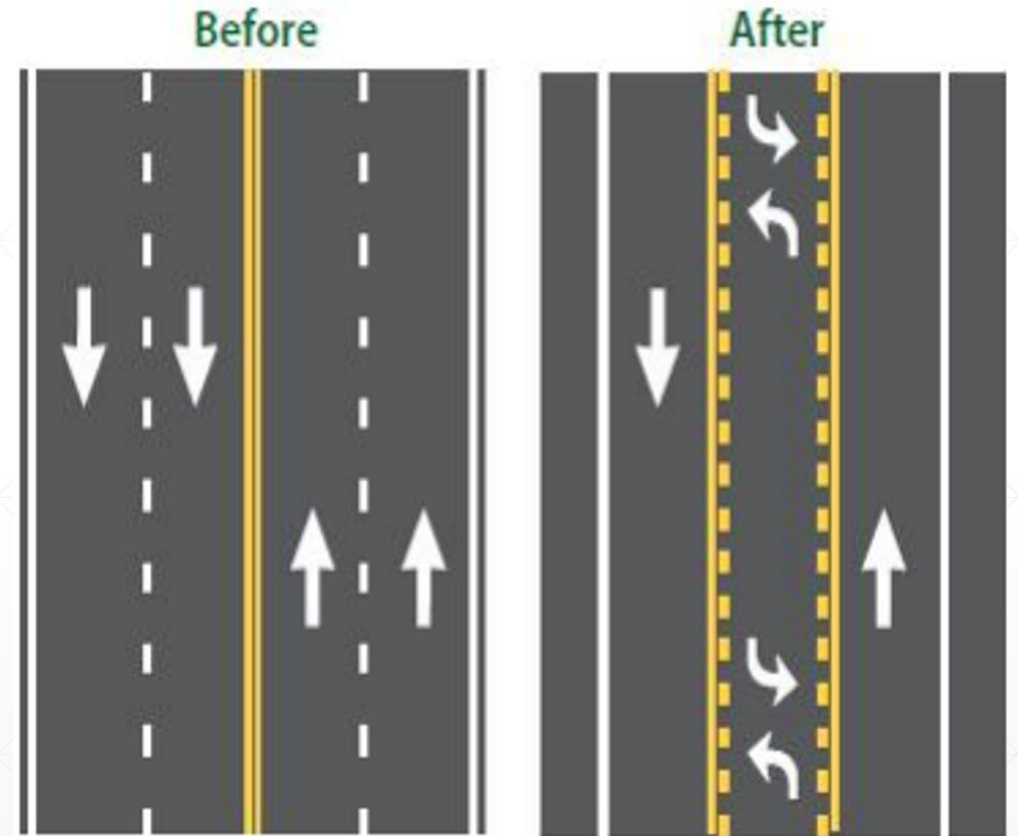
# Improvement Toolkit

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# 4-lane to 3-lane street conversion

*According to the Federal Highway Administration:*

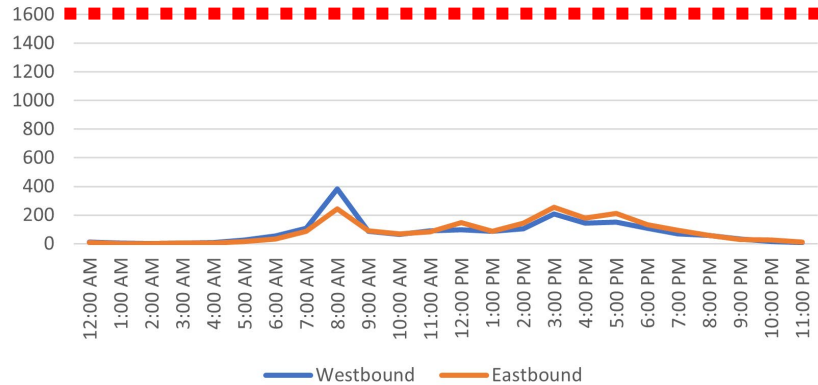
- 19% to 47% reduction in crashes
- Decreases speeds by at least 3 mph
- Results in less severe crashes
- Provides fewer vehicle lanes to cross
- Enables better visibility for pedestrians
- Allows space for bicyclists
- Provides smoother travel flow



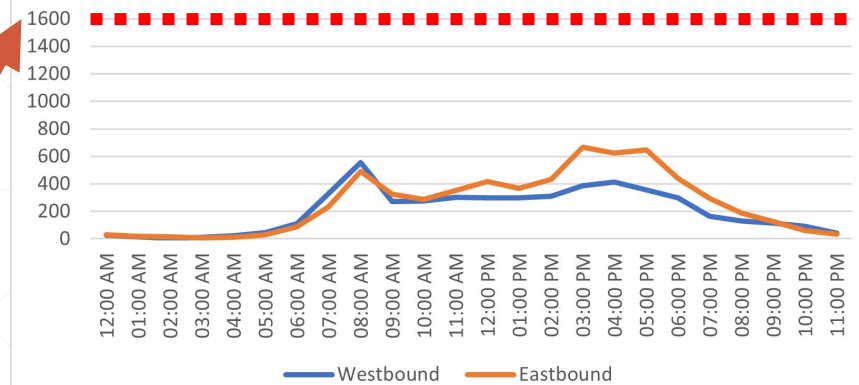


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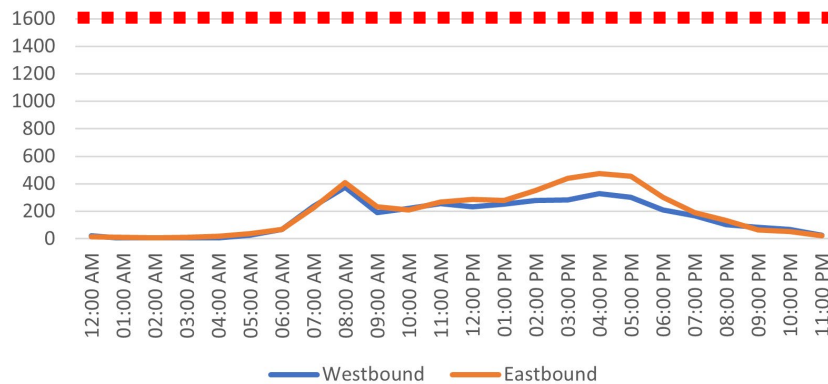


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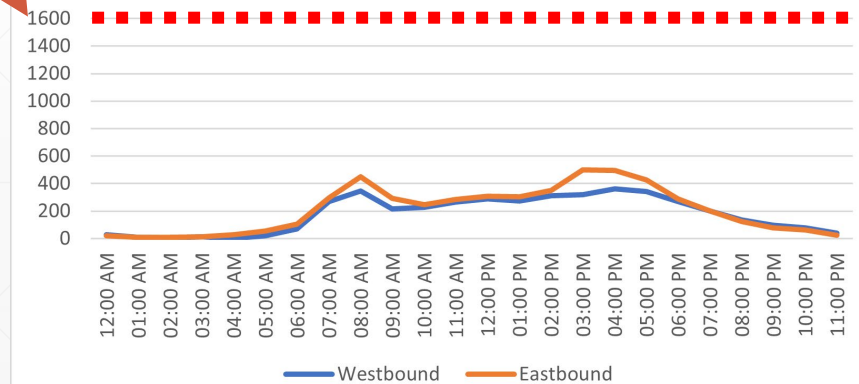


The roadway was designed to accommodate up to 1,600 vehicles per hour in each direction

Lincoln Ave  
Grand St to Chestnut St



Lincoln Ave  
Walnut St to Oak St



# Pedestrian improvements

- Higher visibility crosswalks
- Flashing beacons
- Pedestrian refuge island
- Bulb-outs
- Landscaping





# Buffered bicycle lanes & physically separated bicycle facilities

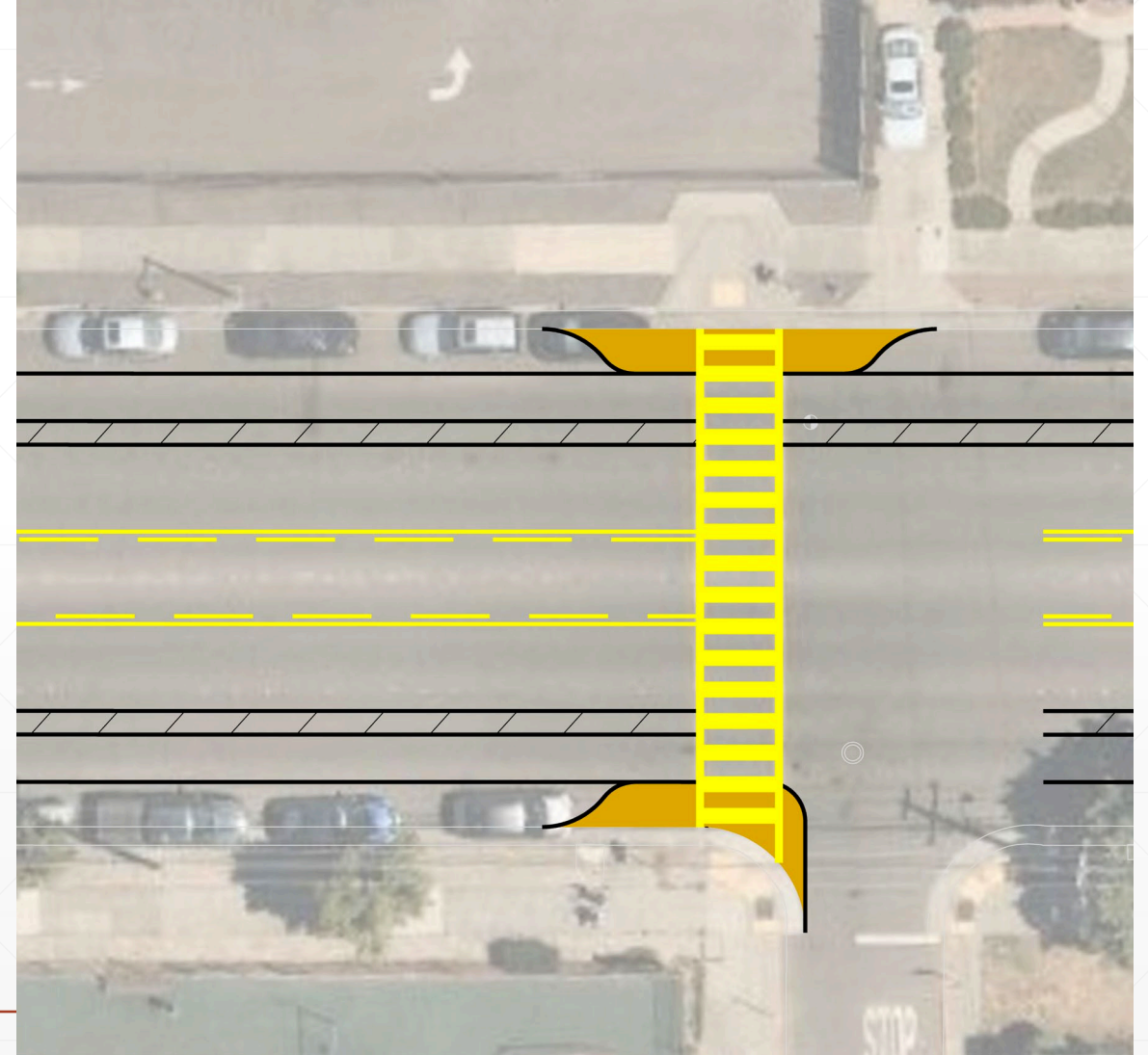




# Potential combination of improvements

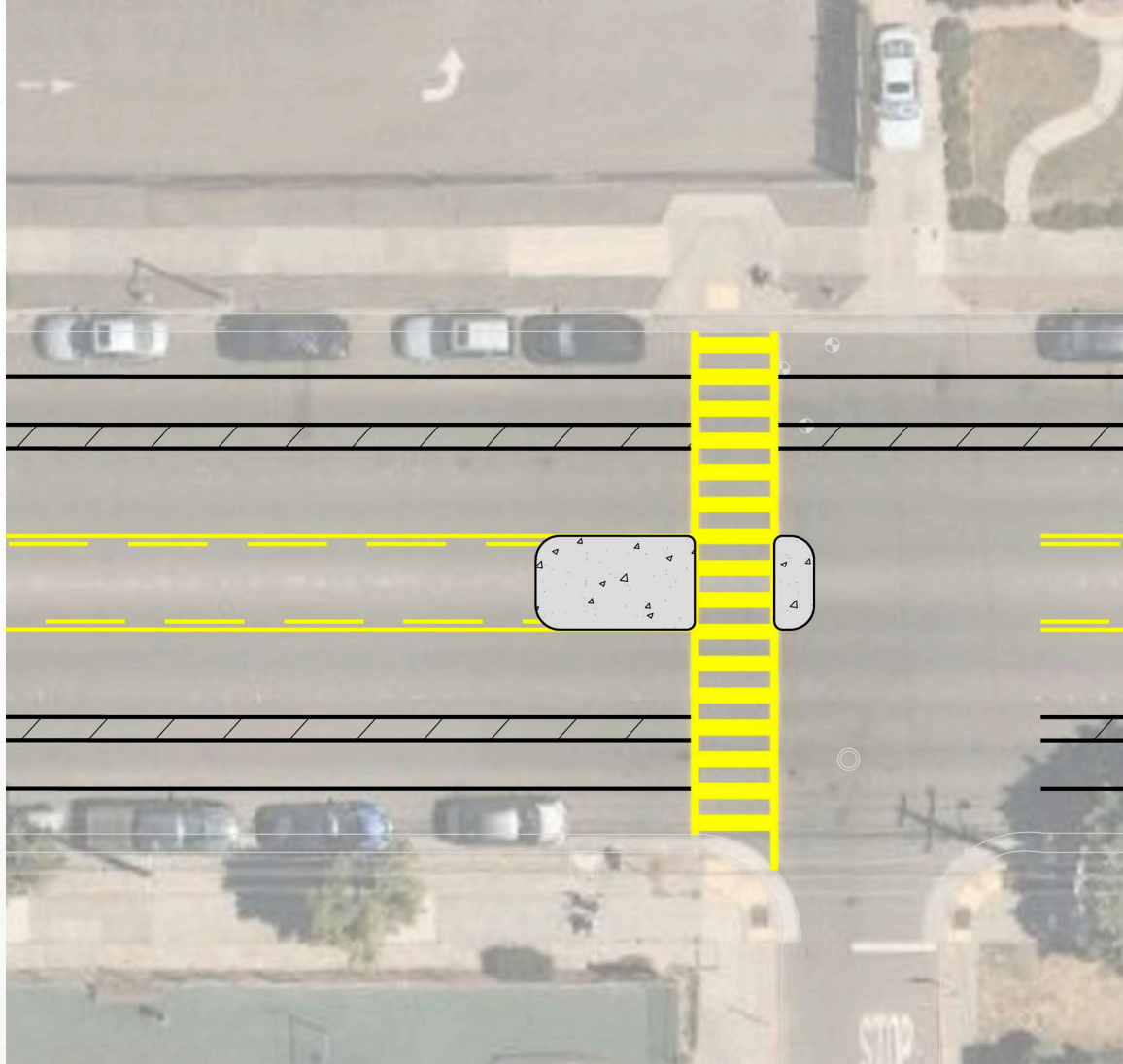


Existing conditions

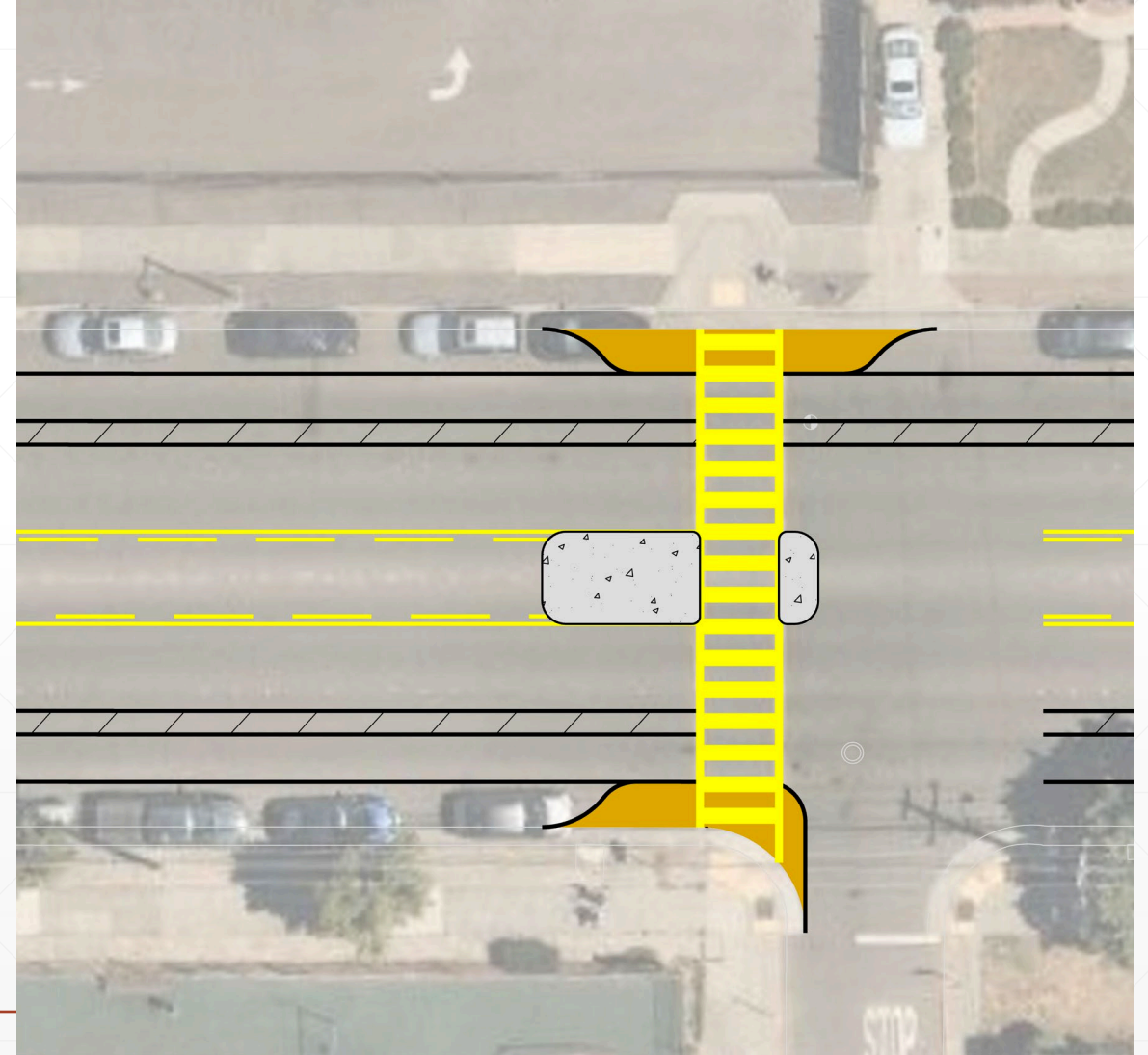


Roadway conversion with bulb-outs

# Potential combination of improvements



**Roadway conversion with refuge island**



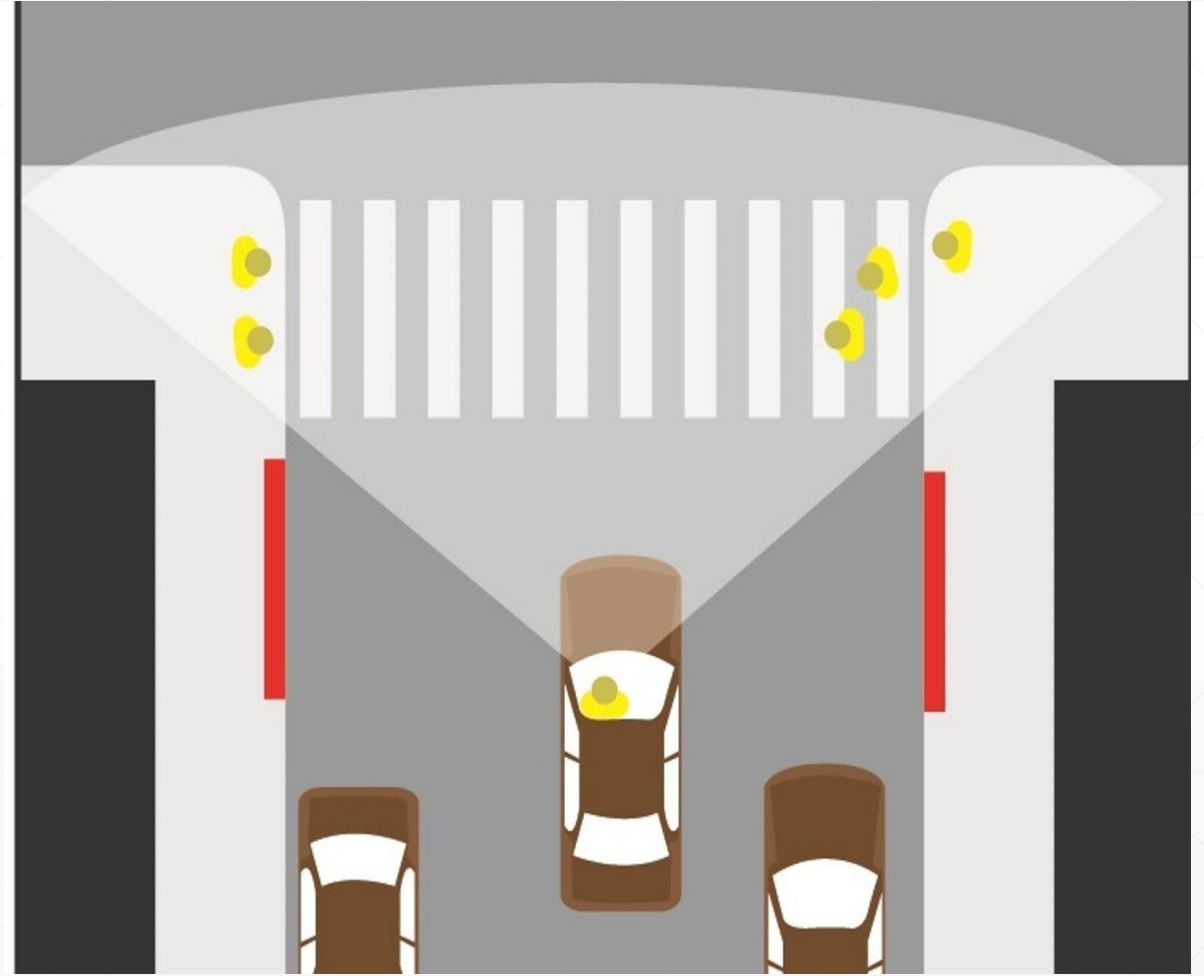
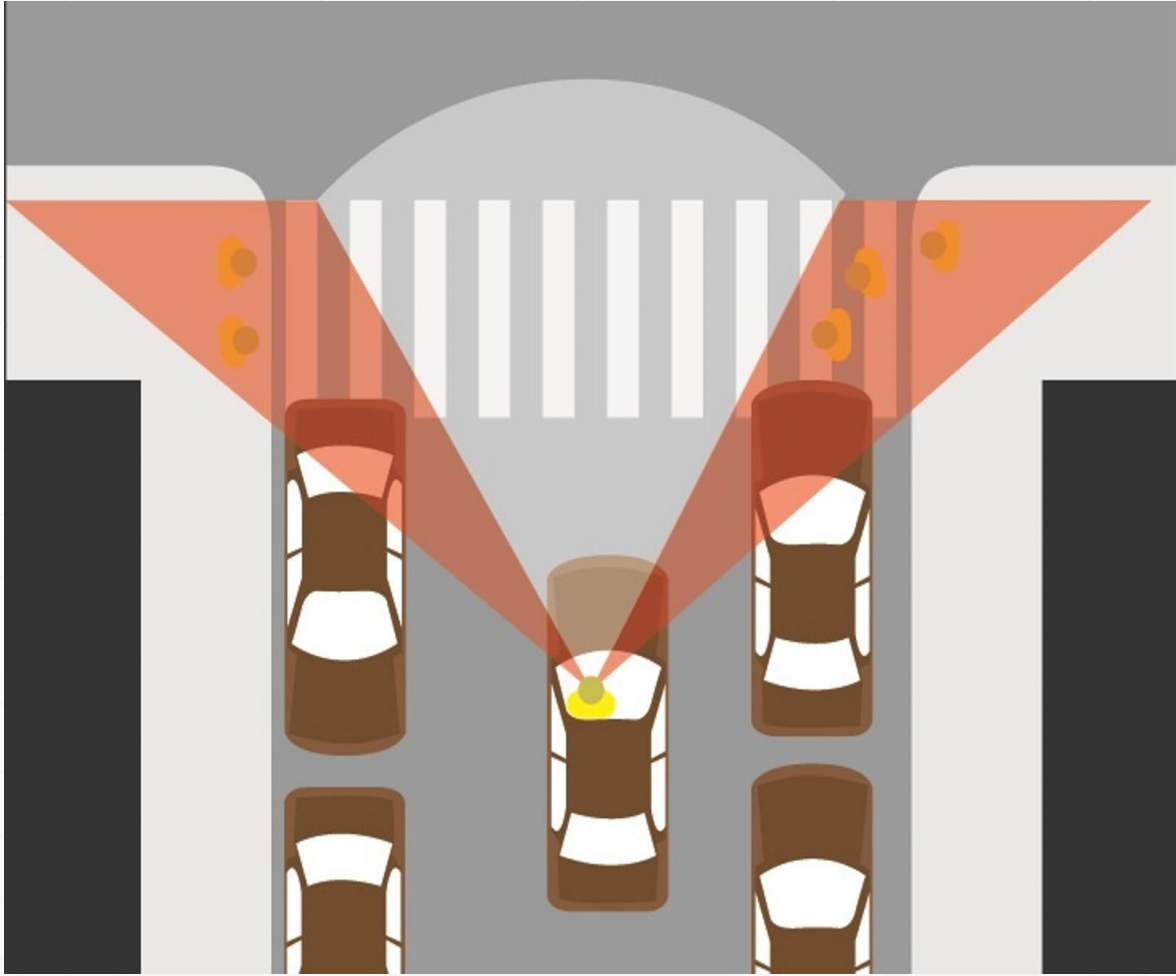
**Roadway conversion with bulb-outs & refuge island**

# Turn lane & traffic signal enhancements





# Improved sight lines



# Roundabouts



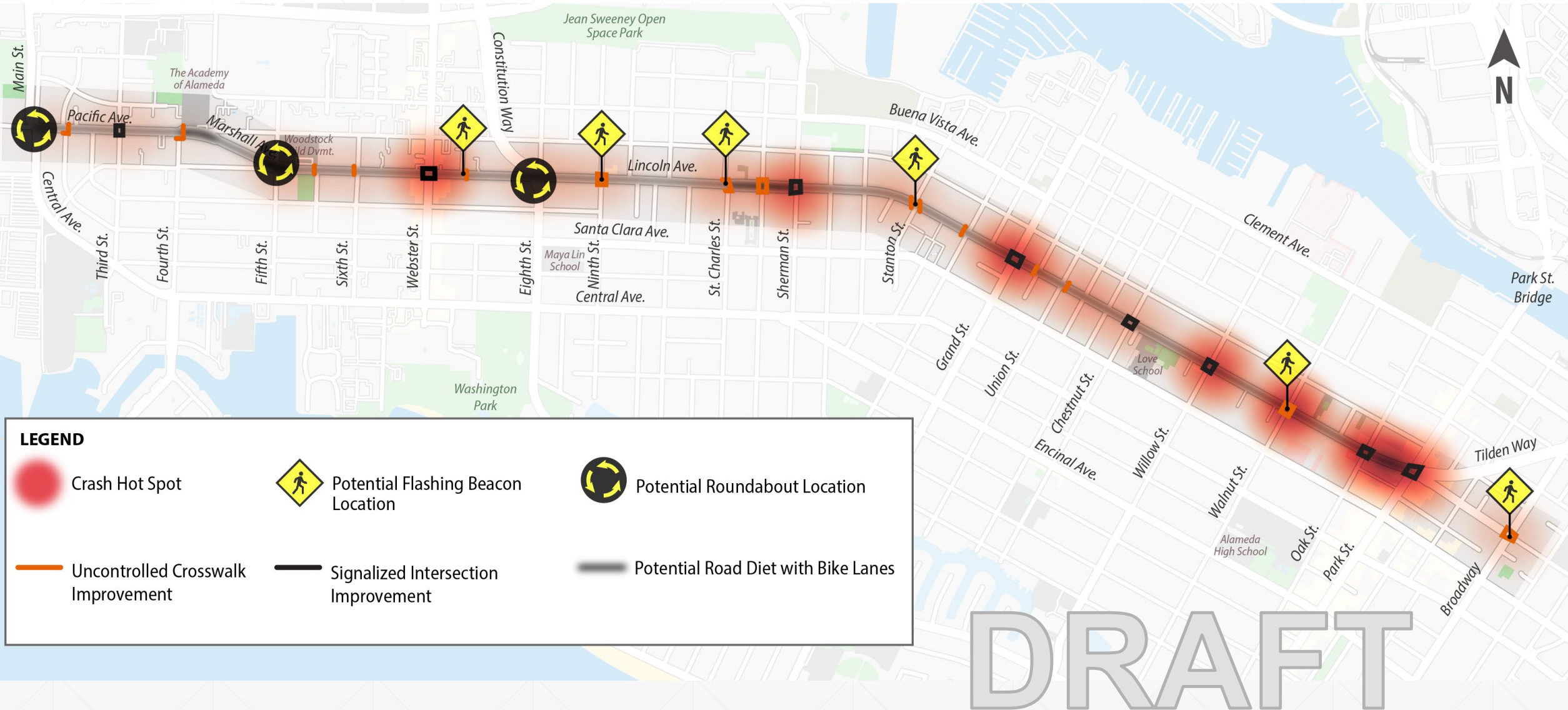


# Bus stop enhancements





# Potential improvements based on crash hot spots



# Discussion

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## Next steps

Existing  
Conditions  
Assessment  
(early 2022)

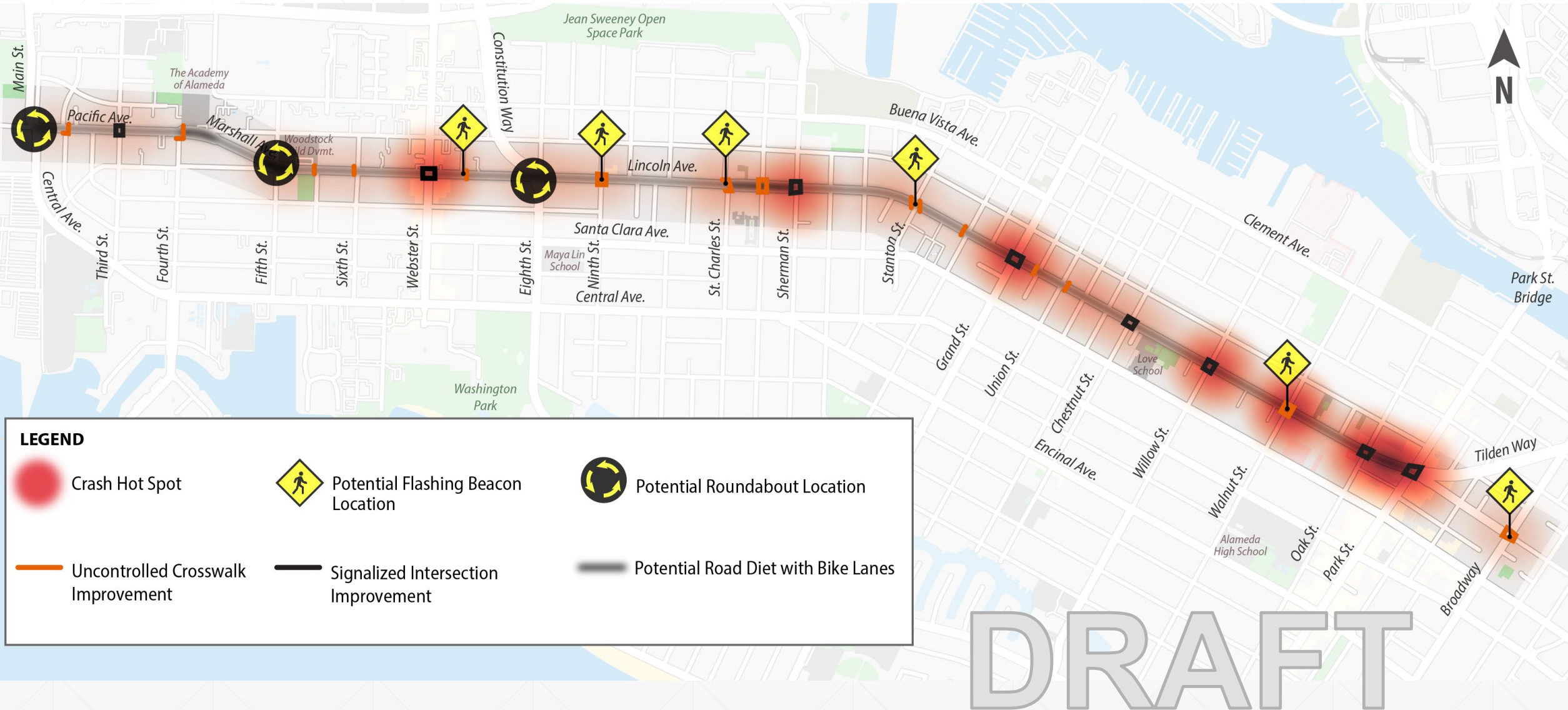
Alternatives  
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Design of  
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(2023)

1st Phase of  
Construction  
(2023 to 2024)



# Potential improvements based on crash hot spots



May 25, 2022



# Lincoln Avenue/Marshall Way/ Pacific Avenue Improvement Project

[www.alamedaca.gov/LincolnMarshallPacific](http://www.alamedaca.gov/LincolnMarshallPacific)

Gail Payne – [gpayne@alamedaca.gov](mailto:gpayne@alamedaca.gov) – 510-747-6892





# The roadway has varied widths and lane configurations



*Looking East at Lincoln Ave. / Concordia St.*



*Looking West at Lincoln Ave. / Minturn St.*



# The roadway has multi-lane segments with varied widths and lane configurations



*Looking East near Lincoln Ave. / Walnut St.*



*Looking West near Lincoln Ave. / Park St.*



# The average crosswalk crossing distance along Lincoln Avenue is 70 feet



*Lincoln Ave. / Concordia St.*



*Lincoln Ave. / Linden St.*



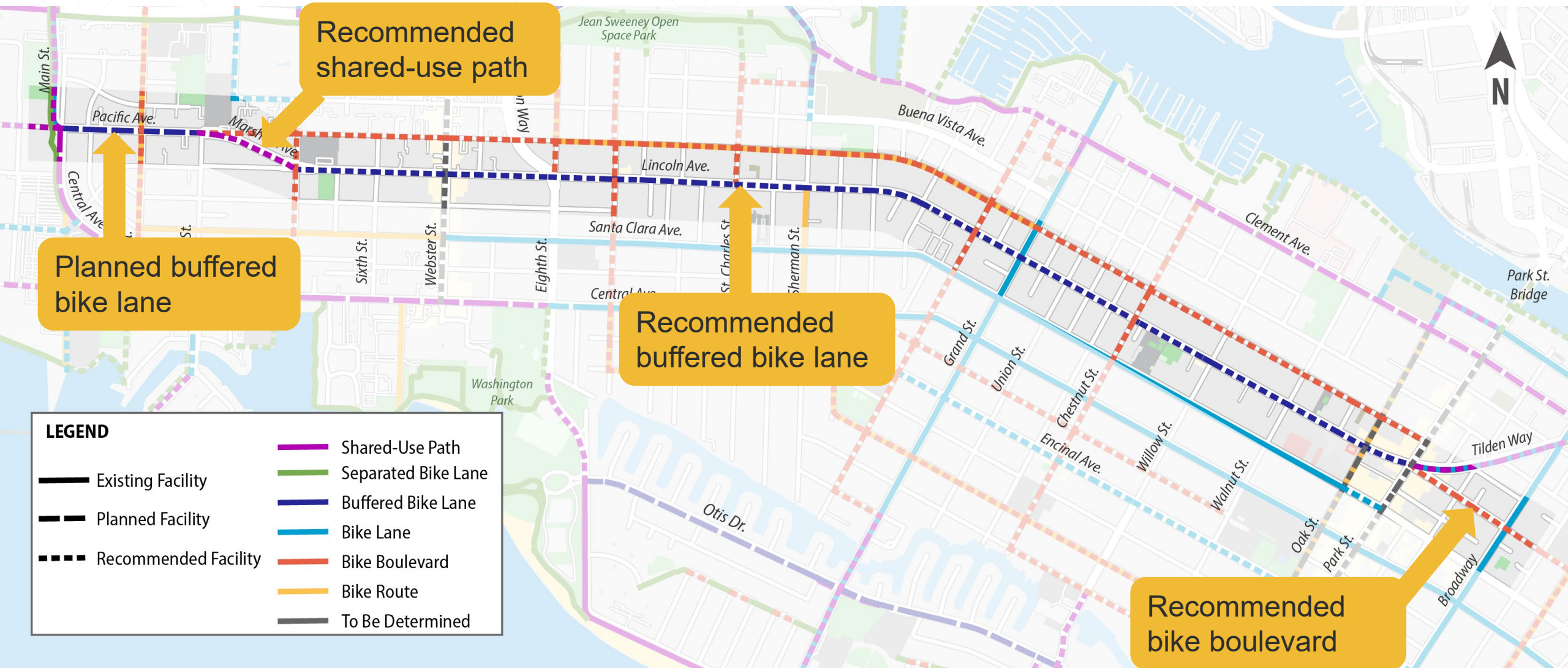
# There are dozens of unmarked crosswalks on the corridor



*Lincoln Ave. / Morton St.*



# There are proposed and recommended bike facilities on and parallel to the study area

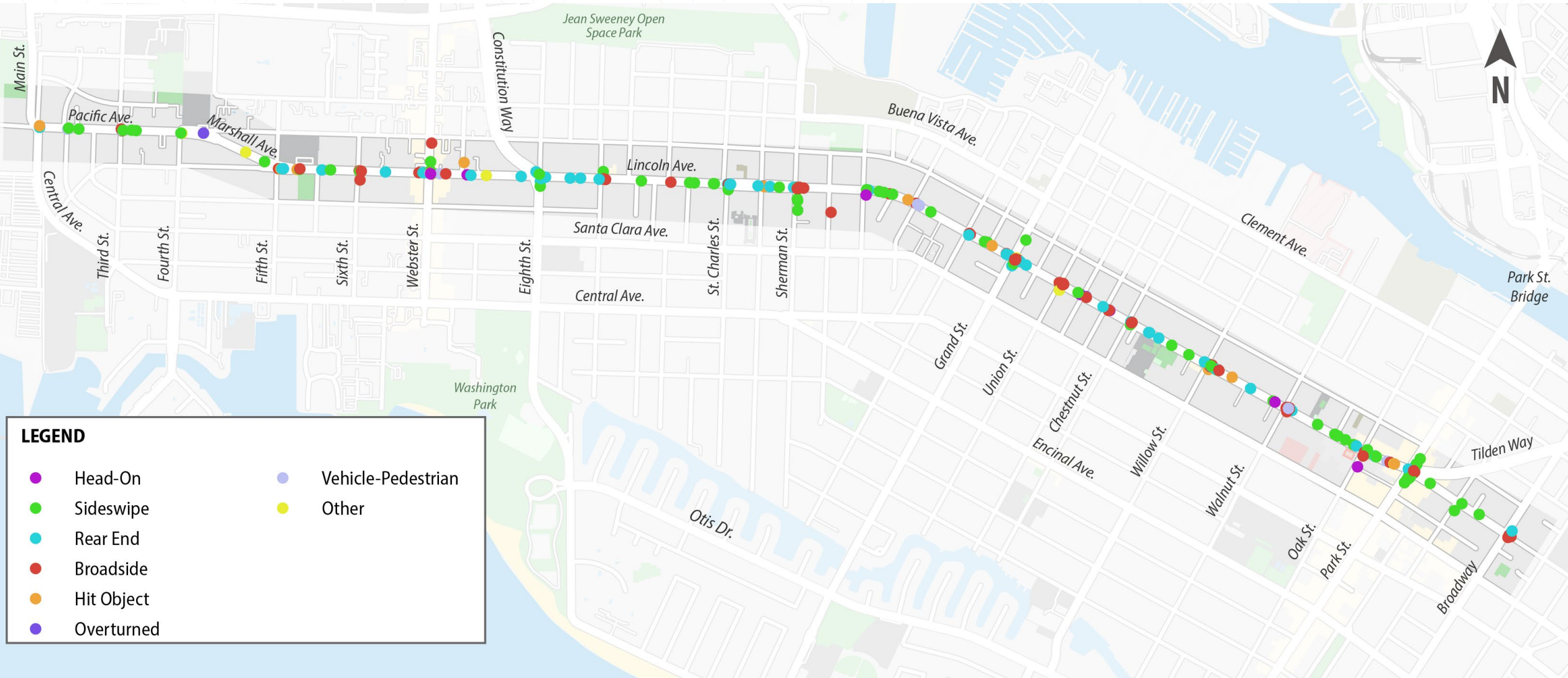


# Existing bike facilities are parallel and intersect the roadway, but none exist along it





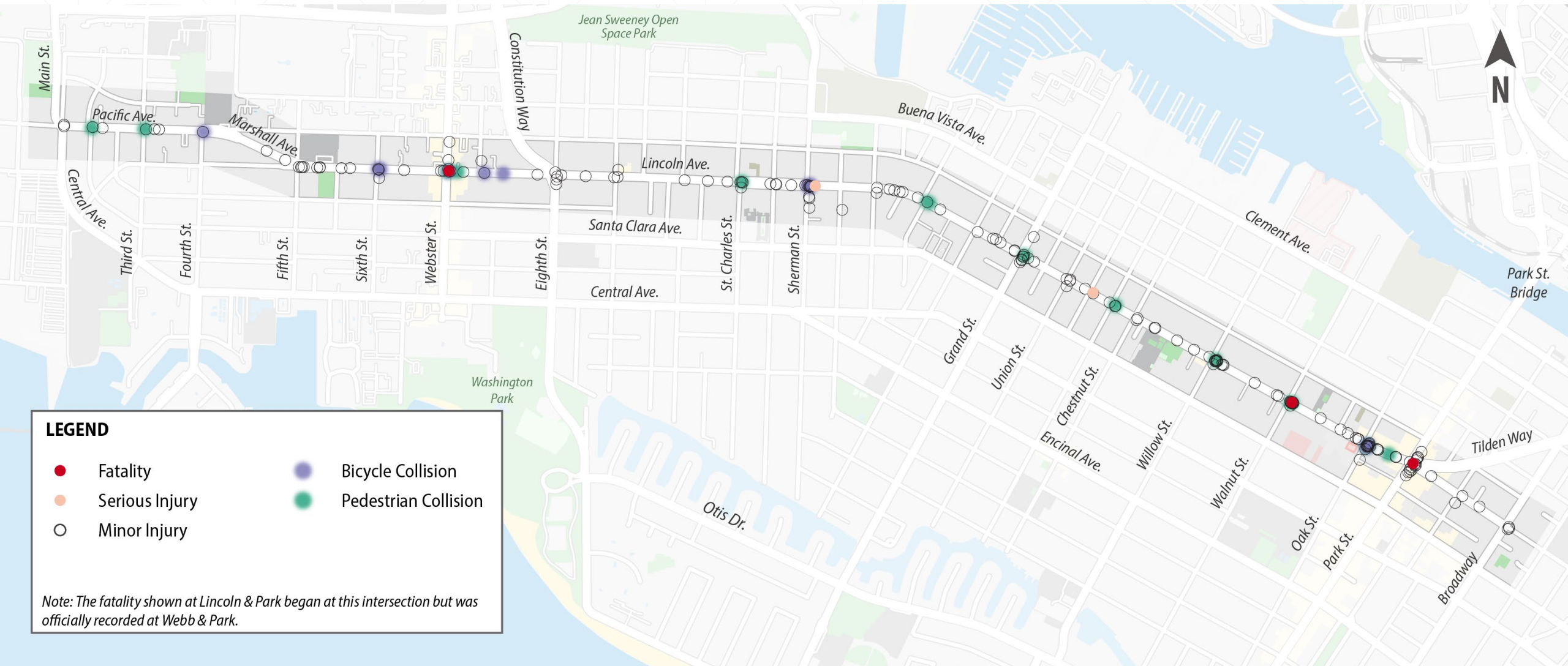
# Sideswipe and broadside crashes each accounted for almost 1/3 of all crashes



2017 - 2021



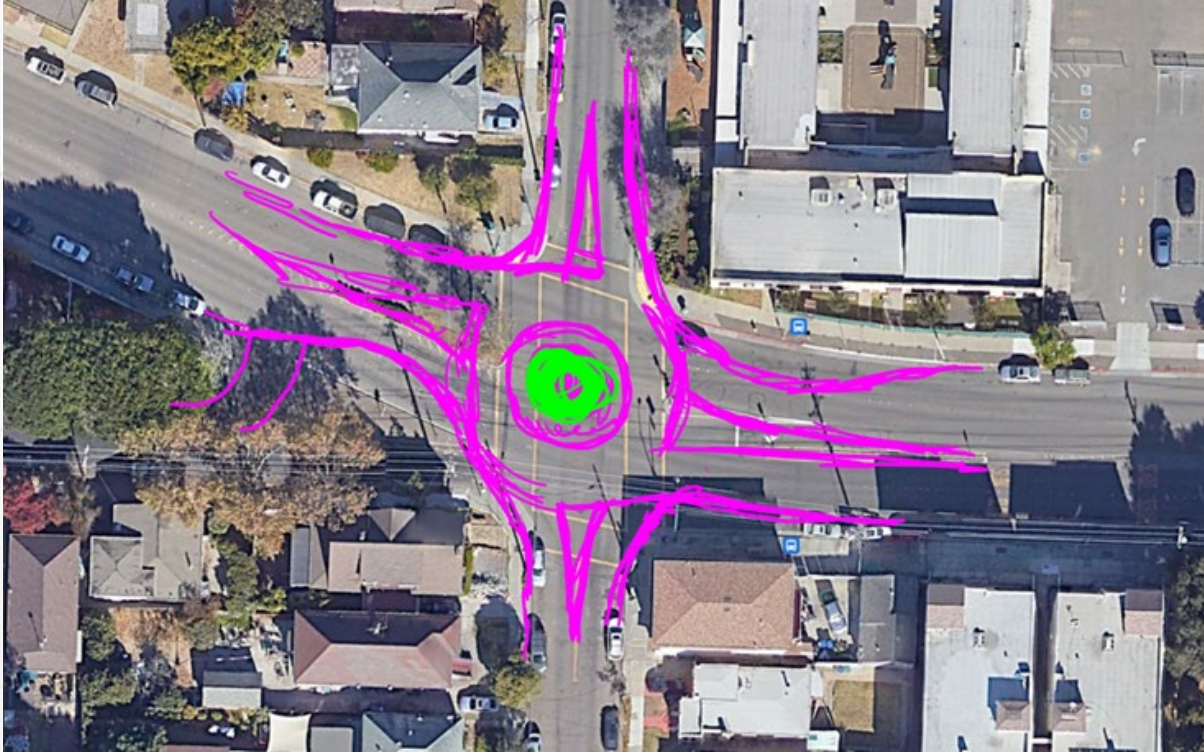
# Bicycle and pedestrian crashes accounted for 13% of all crashes but almost 1/3 of all injuries



2017 - 2021



# Roundabouts



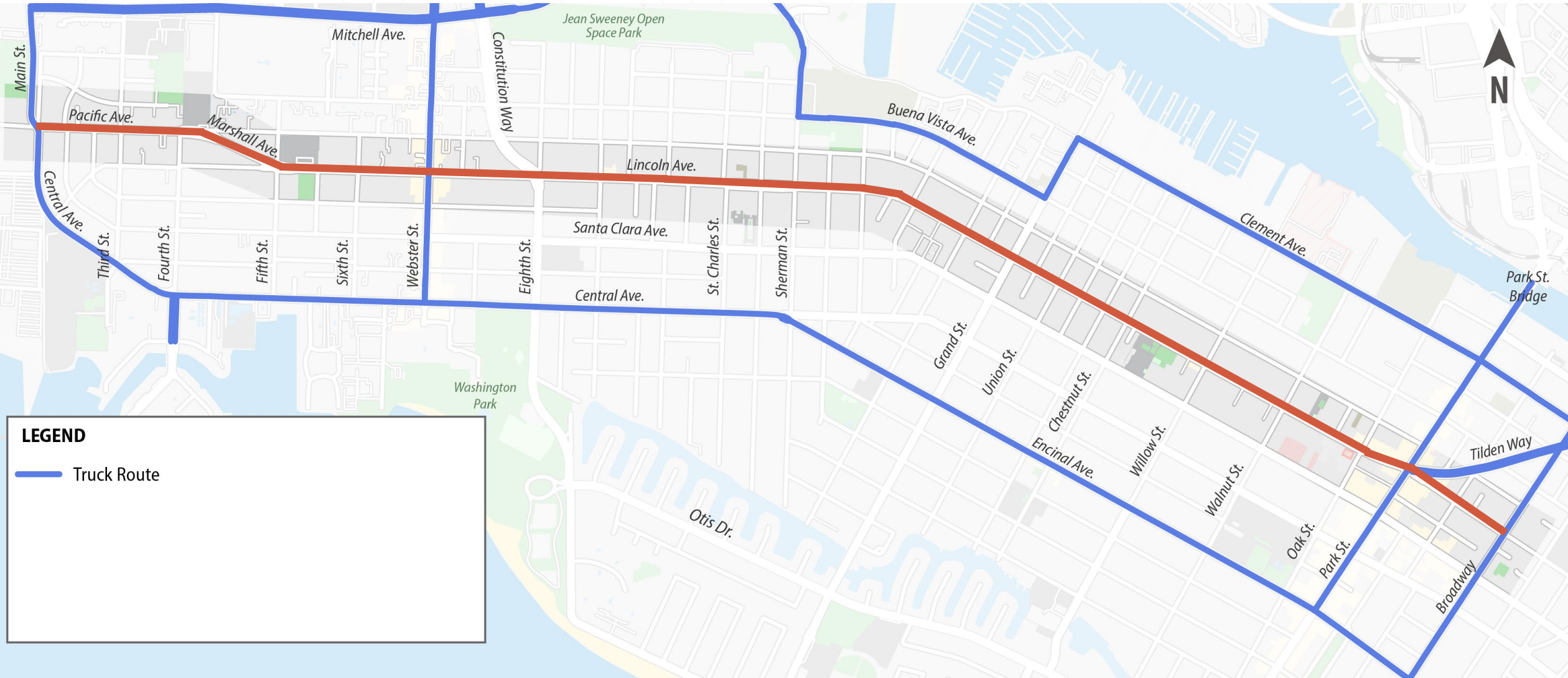
*Marshall Way / Lincoln Ave. / 5<sup>th</sup> St.*



*Lincoln Ave. / Constitution Way / 8<sup>th</sup> St.*



# Designated truck routes run parallel to and intersect the corridor



# Pedestrians have noted close calls throughout the corridor

A map of the Lincoln Avenue corridor in San Jose, California, highlighting various pedestrian safety concerns. The map shows Lincoln Avenue running horizontally across the center, with several streets intersecting it. Red dots mark specific locations where pedestrians have reported close calls or safety issues. Yellow callout boxes with arrows pointing to these dots contain quotes from pedestrians. The map also shows other streets like Pacific Ave., Marshall Ave., Santa Clara Ave., Central Ave., Grand St., Union St., Chestnut St., Encinal Ave., Willow St., Walnut St., Oak St., Park St., Broadway, and Tilden Way. A north arrow is located in the top right corner.

“Parked cars reduce visibility and drivers come down Lincoln quite fast.”

“Drivers almost never stop for pedestrians here, even while in the crosswalk.”

“There needs to be better speed controls and stop signs on Lincoln mid-island to protect pedestrians and help people access their neighborhood.”

“Unsafe crossing”

“Unsafe”

“There should be a dedicated crosswalk for students.”

“Unsafe for pedestrians. Often cars barely stop.”

“There need to be speed controls here that put the pedestrians above the drivers in importance.”

“I was hit by a car here.”

“This is a crazy dangerous intersection.”

“I was nearly hit by a vehicle here.”

**“Parked cars reduce visibility and drivers come down Lincoln quite fast.”**

“Drivers almost never stop for pedestrians here, even while in the crosswalk.”

“There needs to be better speed controls and stop signs on Lincoln mid-island to protect pedestrians and help people access their neighborhood.”

"Unsafe crossing"

## "Unsafe"

“There should be a dedicated crosswalk for students.”

“Unsafe for pedestrians. Often cars barely stop.”

“There need to be speed controls here that put the pedestrians above the drivers in importance.”

“I was hit by a car here.”

“This is a crazy dangerous intersection.”

"I was nearly hit by a vehicle here."



# Cyclists also feel unsafe, particularly when crossing Lincoln

"This intersection is really tricky."

"Unsafe, marked crosswalk. 9<sup>th</sup> and Lincoln is a death trap waiting to happen."

"Cars never stop unless it's at a visible crosswalk and it makes it nearly impossible to cross."

"Really aggressive driving here. It's hard to cross the street."

"This intersection is difficult to traverse on a bike."

"I want to bike/roll here. Awful intersection for cyclists and walkers."

"Need safe crossings here."

"Big intersection with a crosswalk that cars rarely stop for."

"Cars speed constantly. Very dangerous."

"I was nearly hit by a vehicle here."



# The survey respondents represent a diversity of residences and travel modes

- Majority of respondents are west of Grand St.
- Lower renter population
- About half have kids in main island schools

