

Unincorporated San Mateo County Local Road Safety Plan

Department of Public Works



COUNTY OF SAN MATEO



What is a Local Road Safety Plan?



Local Road Safety Plan Goals

Goals

0 traffic-related fatalities by 2035

Reduce severe injury collisions by 50% by 2035

Improve safety for all roadway users



Project Stakeholders

California Highway Patrol

Caltrans

San Mateo County Office of Sustainability

San Mateo County Planning & Building Department

San Mateo County Bicycle and Pedestrian Advisory Committee

San Mateo County Board of Supervisors

San Mateo County Department of Public Health



COUNTY OF SAN MATEO



Project Data

Based on injury collision reports collected by law enforcement from 2014 through 2020

Limitations:

- Hospital data did not have location
- No good data sources for near-misses



Data Analysis Process

Collision Data for road segments and intersections

Intersections:

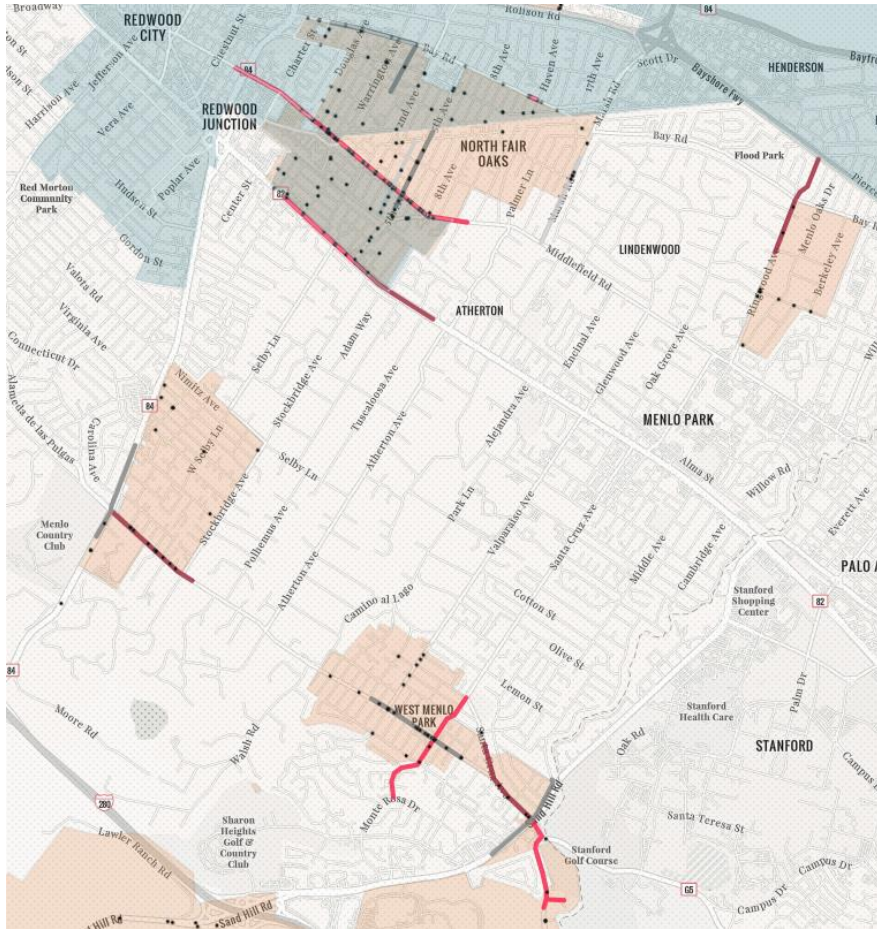
- Identified priority intersections with top 15 most injury collisions
- Separated signalized/unsignalized

Road Segments:

- Identified top 20 roads using collisions.
- Severe Injury and Fatal Collisions given 10x weight
- Active Mode-Involved Collisions also given 10x weight



Data Analysis Process



Collision Data Can be viewed here:

https://www.google.com/maps/d/edit?mid=1Bxhqs8D113_hrTC4bz_Amoq176ecbS_zq&usp=sharing

Countermeasures

Countermeasures

- Selected from the Caltrans Local Road Safety Manual
- Matched to road segments and intersections based on collision type and modes



Results

Priority Road Segments (truncated to fit in slide. See report for full list)

| Street Name | Install Bike Lanes | Install Separated Bike Lanes | Install Chevrons | Install Curve Warning Signs | Install Delineators and Reflectors on Median | Install Edgelines | Install Edgelines and Centerlines | Install Rapid Rectangular Flashing Beacons | Install/Upgrade Crossing with Enhanced Safety | Restrict Parking | Road Diet |
|-----------------------|--------------------|------------------------------|------------------|-----------------------------|--|-------------------|-----------------------------------|--|---|------------------|----------------|
| 4th Ave | | | | | | | | X | X | | |
| 5th Ave | X ¹ | | | | | | X | X | X | | |
| Alameda de las Pulgas | X | | | | | | | | | | X ² |
| Alpine Rd | | | | X ³ | | | | | | | |
| Avy Ave | | | | | | | X | | | | |
| Bay Rd | X | | | | | | X | X | X | | X |
| Canada Rd | | X | X | X | | | | | | | |
| Cloverdale Rd | | | | | | | X | | | | |
| Country Club Dr | | | | | | | X | | | | |
| Edgewood Rd | | | | | | | X | | | | |
| Golf Course Dr | X | | | | | | | | | | X |
| Guadalupe Canyon Pkwy | | X | | | | | | | | | X ⁴ |
| Harbor Blvd | X | | | | | | | X | X | | X |
| Higgins Canyon Rd | | | | X | | | X | | | | |
| Hillside Blvd | X | | | | | | | X | X | | X |
| Middlefield Rd | X | | | | | | | X | X | | X |
| Old La Honda Rd | | | | X | | | | | | | |
| Pescadero Creek Rd | | X | X | X | | | | | | | |
| Ringwood Ave | | | | X | | | X | | | | |

¹ Buffered green bike lanes installed in 2021

² Under final design

³ Conceptual study completed

⁴ Under conceptual design

Results

Priority Intersections (Unsignalized)

| Primary Street | Secondary Street | Install intersection lighting | Convert to all-way stop control | Install signals | Convert Intersection to roundabout | Install/upgrade larger or additional warning/regulatory signs | Upgrade intersection pavement markings | Install flashing beacons at stop-controlled intersections | Install flashing beacons as advance warning | Create directional median openings to allow/restrict left/U-turns | Install raised medians/refuge island | Install pedestrian crossings at uncontrolled locations with enhanced safety features | Install rectangular rapid flashing beacon | Install pedestrian signal (HAWK) |
|----------------|---------------------|-------------------------------|---------------------------------|-----------------|------------------------------------|---|--|---|---|---|--------------------------------------|--|---|----------------------------------|
| Alpine Rd | Interstate 280 | | | X ¹ | X | X | | X | X | | | | | |
| State Route 82 | Selby Lane | X | | X | X | | | | | X | X | X | X | X ² |
| State Route 1 | Cypress Ave | | X | X | | X | X | | X | | X | | | |
| Spring St | Warrington Ave | | X | | | | | | | | | X | X | |
| Montgomery Ave | San Carlos Ave | | X ³ | | | | | | | | | | | |
| State Route 1 | Medio Ave | | | | | | | | | | X | X | X | X |
| State Route 1 | Virginia Rd | | | | | | | | | | X | X | X | X |
| Edgewood Rd | Canada Rd | | | | X | X | | | | | | | | |
| Edgewood Rd | Crestview Dr | | | | X | X | | | | | | | | |
| Middlefield Rd | 6 th Ave | | | | | | | | | | | X | X | X |
| Middlefield Rd | 2 nd Ave | | | X | | | | | | | | X | X ⁴ | X |

Results

Priority Intersections (Signalized)

| Primary Street | Secondary Street | Install/upgrade larger or additional warning/regulatory | Upgrade intersection pavement markings | Install flashing beacons as advance warning | Create directional median openings to allow/restrict left/U- | Install raised medians/refuge Island | Improve signal hardware | Improve signal timing | Install raised pavement markers and striping through intersection | Modify signal phasing to implement a Leading Pedestrian Interval |
|-----------------------|---------------------|---|--|---|--|--------------------------------------|-------------------------|-----------------------|---|--|
| State Route 1 | Capistrano Ave | | | | | X | X | X | X | X |
| Alameda de las Pulgas | Valparaiso Ave | | | | | | | | | X |
| Middlefield Road | 5 th Ave | | | | | | X | X | X | X |
| Ralston Ave | State Route 92 | X | | X | | | | | | |

Implementation

- **Some improvements are already completed/underway**
 - Middlefield Road
 - Santa Cruz Ave
- **Projects will be developed from these lists as funding becomes available**
- **Some countermeasures may be implemented as part of maintenance projects**



Next Steps and Future updates

- **Present Final Draft to Public – Fall 2022**
- **Board adoption in – January 2023**
- **Local Road Safety Plan will be re-evaluated, at minimum, every 5 years with new data and evaluation of implemented countermeasures**

