

TRAFFIC CALMING IMPROVEMENTS

- Sycamore Drive
- James Donlon Boulevard
- West 10th Street

CITY OF
ANTIOCH

ATTACHMENT "F"

City Council Meeting | August 8, 2023

Public Works Department – Traffic Section

Presented by: Charmine Solla, PE, TE, PTOE, PMP

BASIS OF DESIGN

- Collision Reports
- Public Concerns/Requests
- Speeds
- Volumes
- Proximity to schools
- Emergency vehicle routes
- Approval from Police and Fire

| | |
|----------------|----------------|
| → Straight | 🚶 Pedestrian |
| ↶ Left Turn | 🚲 Bicycle |
| ↷ Right Turn | ☒ Object |
| ↻ U-Turn | ● Fatal Crash |
| ↶↷ Overturned | ○ Injury Crash |
| ↘ Ran Off Road | |
| ⚡ Stopped | |
| 🚗 Parked | |

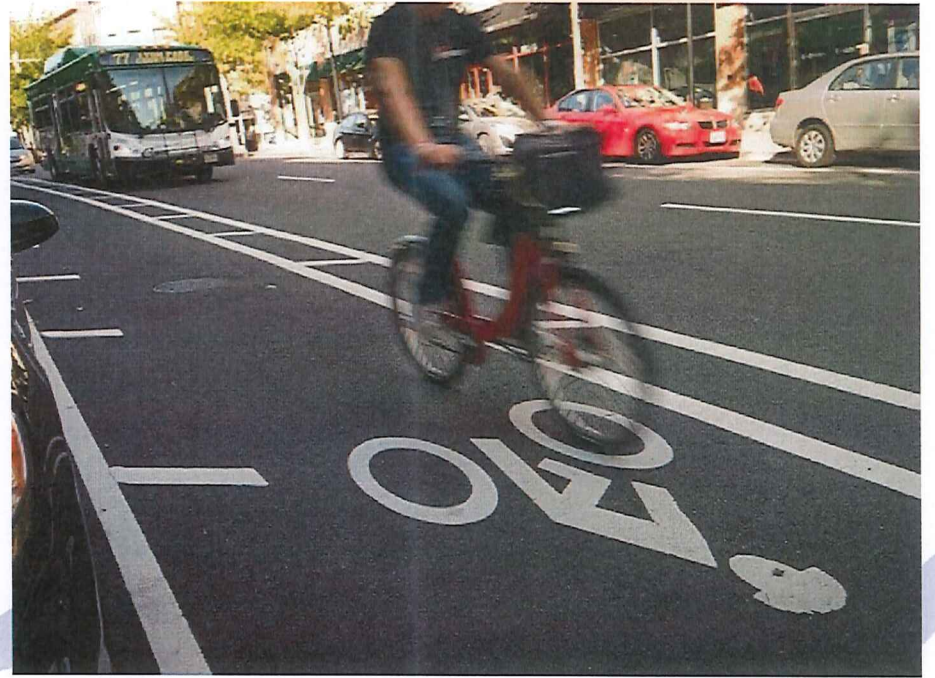


PROPOSED IMPROVEMENTS

Lane Narrowing



Buffered Bicycle Lanes



PROPOSED IMPROVEMENTS

High-Visibility Crosswalks and
Advanced Yield Lines “Shark Teeth”



Rectangular Rapid Flashing Beacons (RRFB)



PROPOSED IMPROVEMENTS

Advanced Warning Signs
with Flashing Beacons

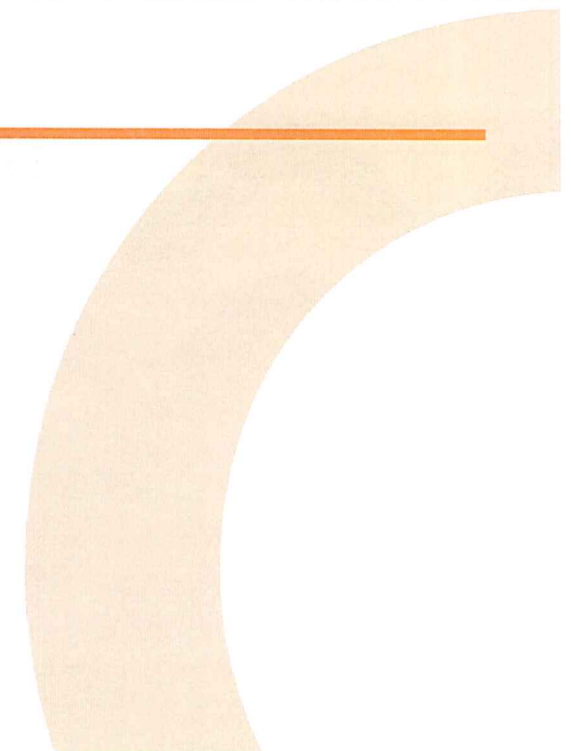
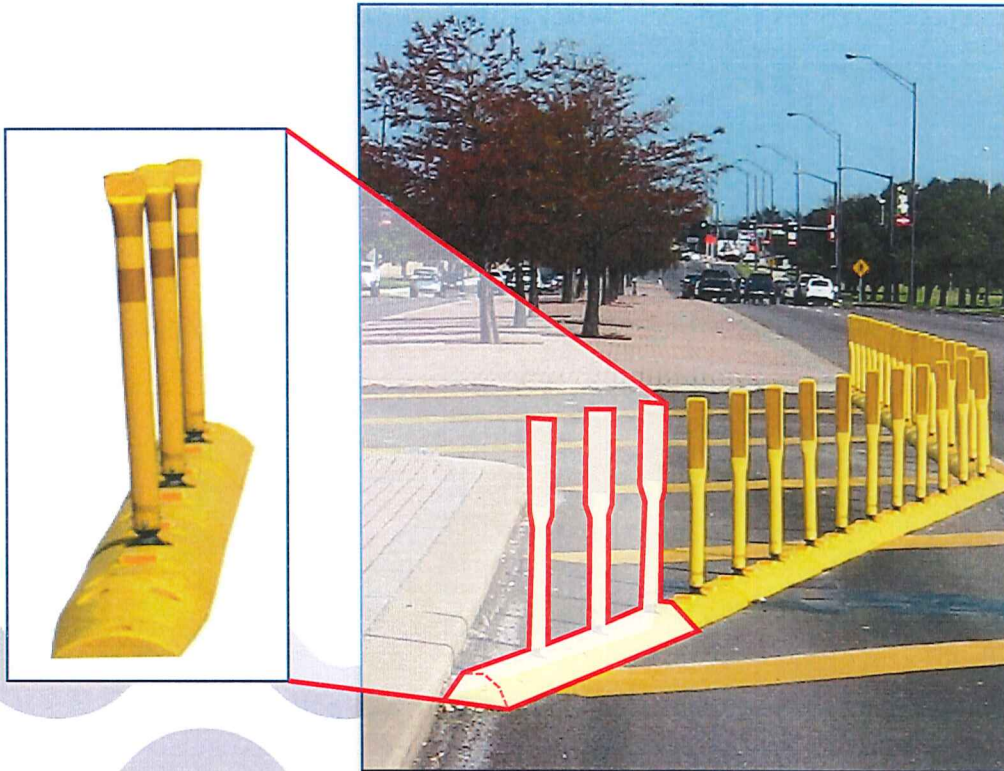


Vehicle Speed Feedback Sign

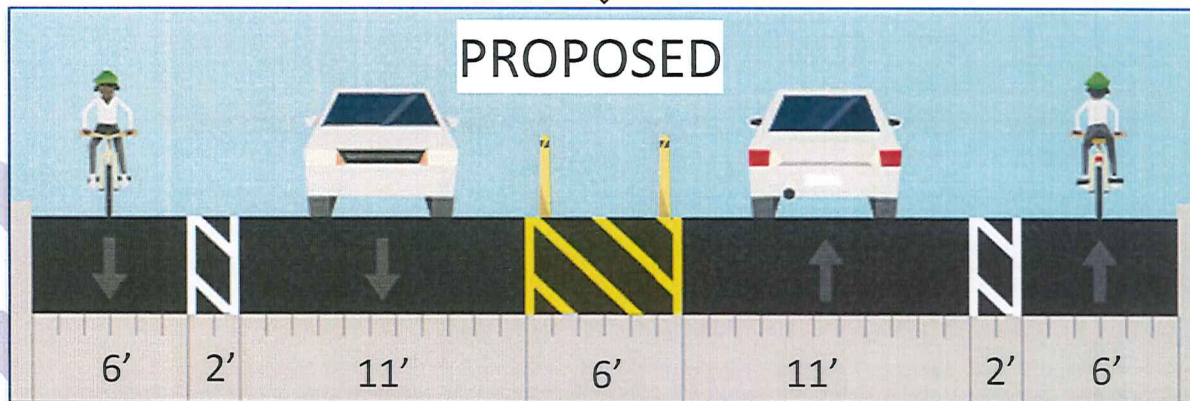
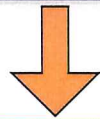
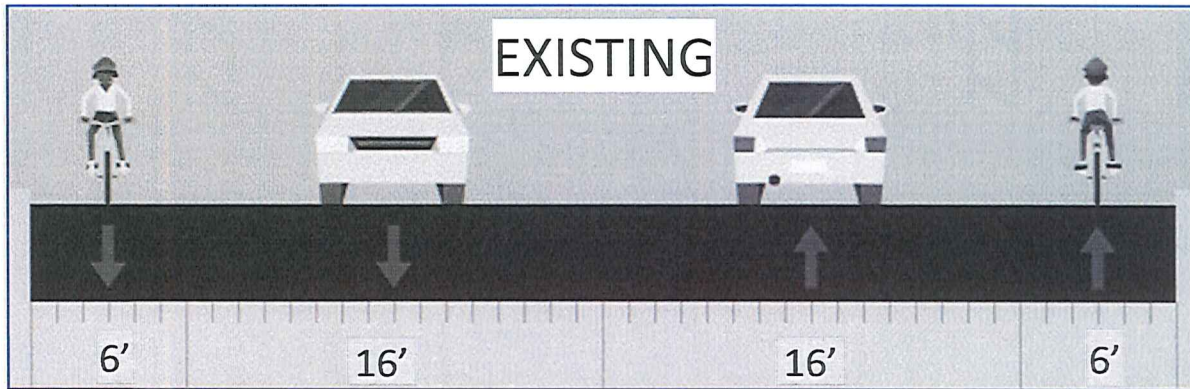


PROPOSED IMPROVEMENTS

Delineators – “Tuff Curb” separators with flexible posts

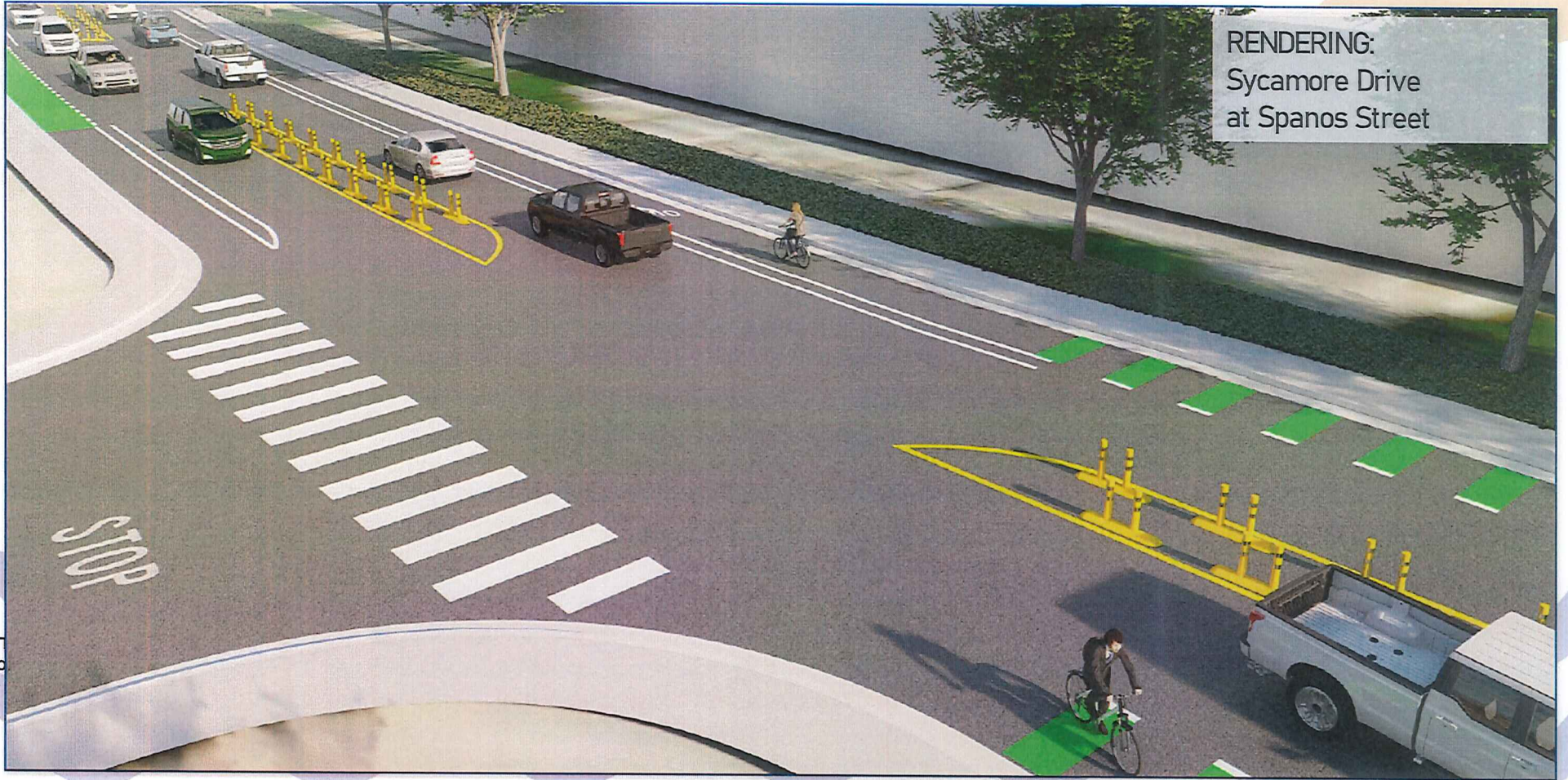


SYCAMORE DRIVE — Auto Center Drive to L Street

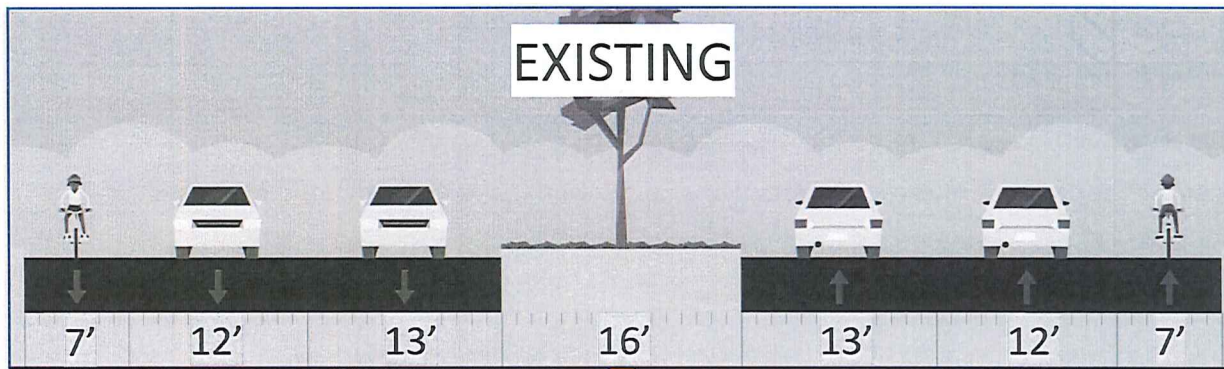


- Lane Narrowing
- Buffered Bike Lanes
- Low-cost median formed with delineators
- High-Visibility Crosswalks and Advanced Yield Lines
- Rectangular Rapid Flashing Beacons (RRFB)
- Speed Feedback Signs

SYCAMORE DRIVE — Intersections



JAMES DONLON BLVD — Somersville Rd to Lone Tree Wy



- Lane Narrowing
- Buffered Bike Lanes
- High-Visibility Crosswalks and Advanced Yield Lines
- Rectangular Rapid Flashing Beacons (RRFB)
- Warning signs with flashing beacons
- Speed Feedback Signs
- Low-cost pork chop islands formed with delineators

JAMES DONLON BLVD — Intersections

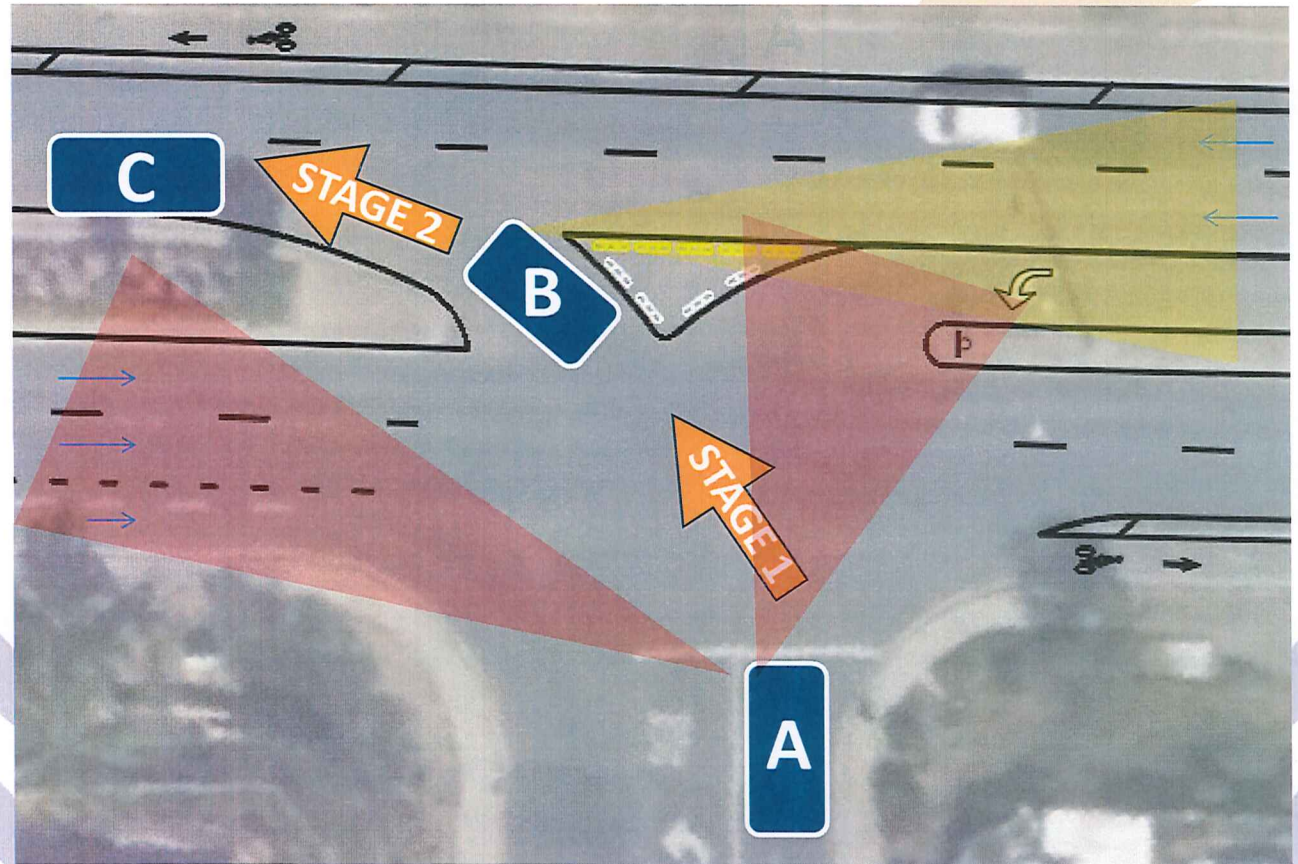
RENDERING:
James Donlon Boulevard
at Hummingbird Drive



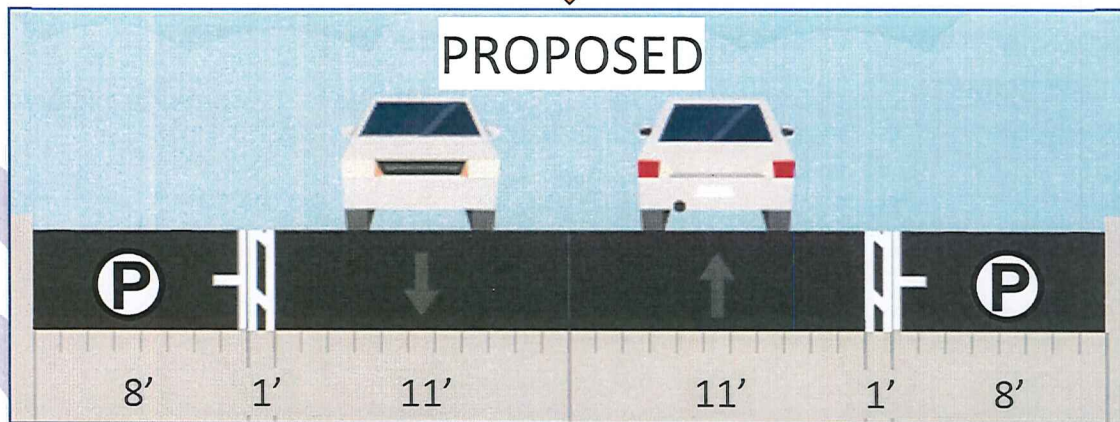
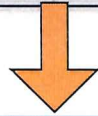
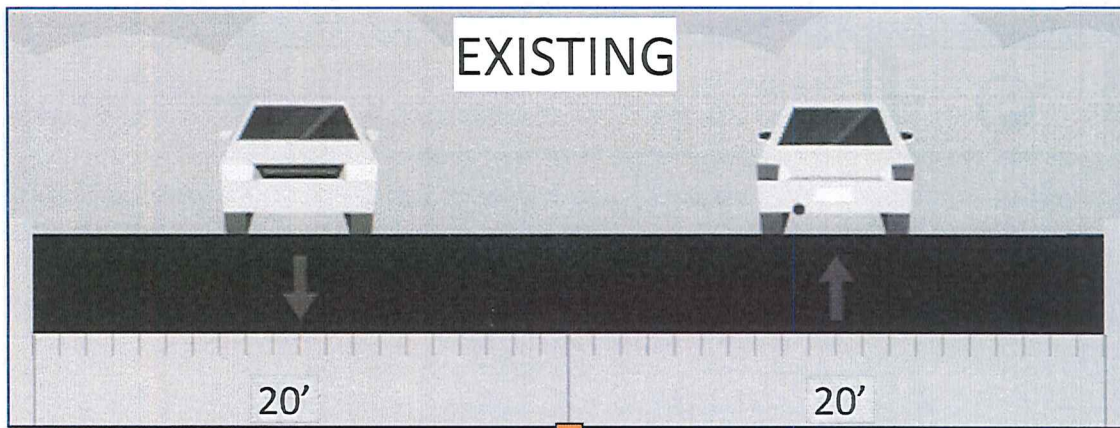
JAMES DONLON BLVD — Two-Stage Left Turns

“Pork chop” island facilitates two-stage left turn phasing onto James Donlon Blvd.

1. Check two lanes of oncoming traffic from the **left** side. Proceed to pork chop island once clear.
2. Check two lanes of oncoming traffic from the **right** side. Proceed to merge once clear.

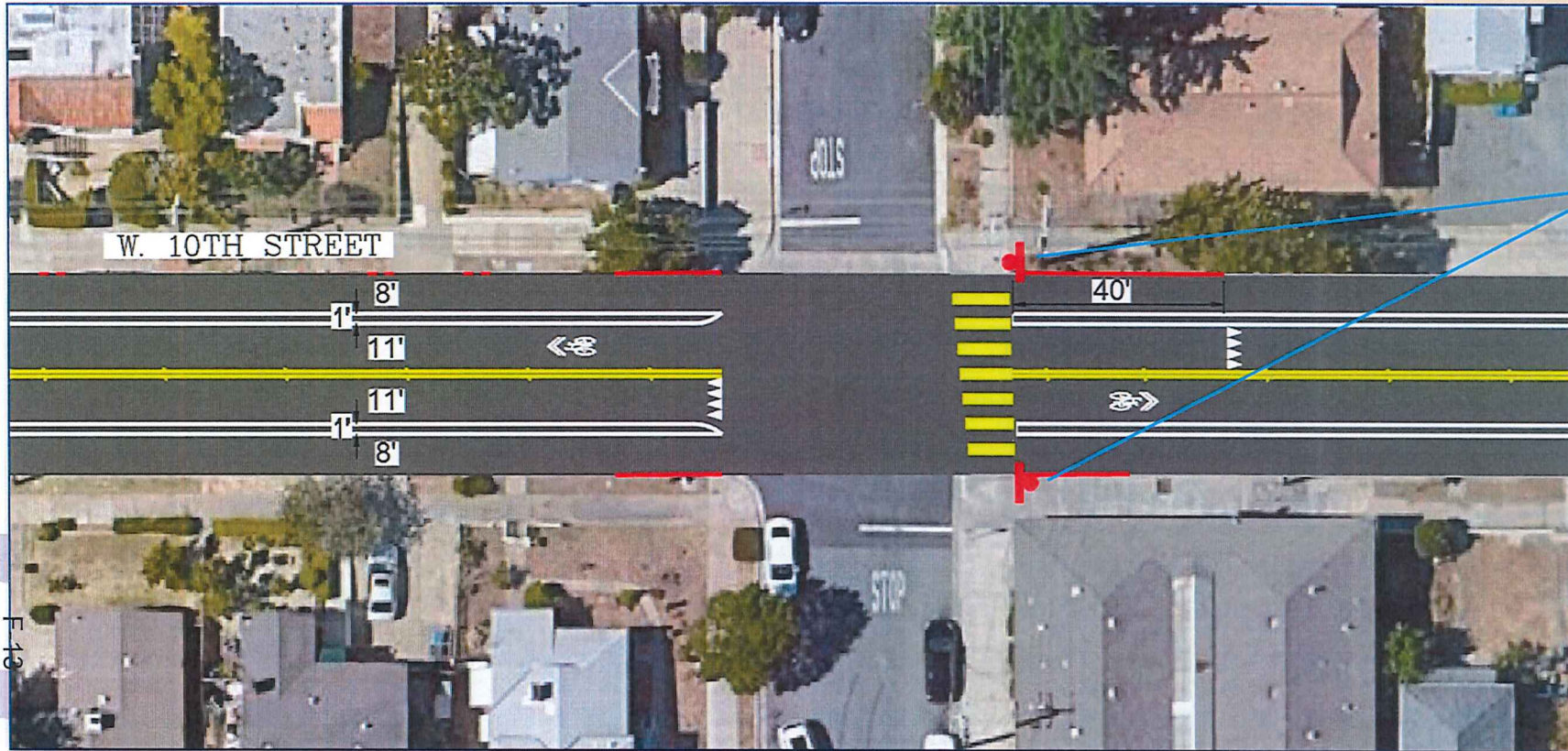


WEST 10TH STREET — L Street to A Street



- Lane Narrowing
- Buffered Lanes
- High-Visibility Crosswalks and Advanced Yield Lines
- Rectangular Rapid Flashing Beacons (RRFB)
- Warning signs with flashing beacons
- Speed Feedback Signs

WEST 10TH STREET – Intersections



COST SUMMARY

| Location | Total - Engineering, Materials, & Labor (with 10% Contingency) |
|---|---|
| Sycamore Dr | \$ 425,000 |
| James Donlon Blvd 1 (Somerville - Contra Loma) | \$ 320,000 |
| James Donlon Blvd 2 (Contra Loma - Lone Tree Wy) | \$ 545,000 |
| W 10th St | \$ 220,000 |
| TOTAL | \$ 1,510,000 |

STAFF RECOMMENDATION



It is recommended that the City Council adopt the resolution:

1. Approving the proposed traffic calming improvements for **Sycamore Drive**;
 2. Approving the proposed traffic calming improvements for **James Donlon Boulevard, from Somersville Road to Contra Loma Boulevard**;
 3. Approving the proposed traffic calming improvements for **James Donlon Boulevard, from Contra Loma Boulevard to Lone Tree Way**;
 4. Approving the proposed traffic calming improvements for **West 10th Street**; and
 5. Approving an amendment to the Fiscal Year 2023/24 Operating Budget to include \$425,000 from the Gas Tax Fund for the traffic calming improvements for **Sycamore Drive**.
- 