

#### Presented by

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#### **Contributors**

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## Overview

- Project Goals
- Study Intersection
- Comparison of Alternatives
- Public Feedback

## Project Goals and Presentation Purpose

### Project Goals

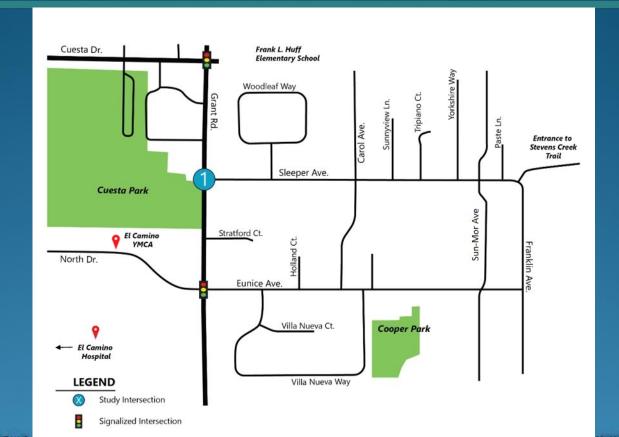
- Develop and evaluate conceptual alternatives
- Facilitate safe movement of pedestrian and bicyclists

### Presentation Purpose

- Present improvement alternatives
- Recommendation to CTC:
  - Recommend that the City Council approve

Alternative # 2

# Study Location



# **Existing Conditions**

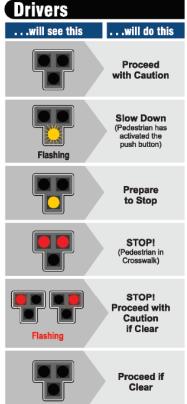


## Proposed Intersection Improvements

#### Pedestrian Hybrid Beacon (PHB)

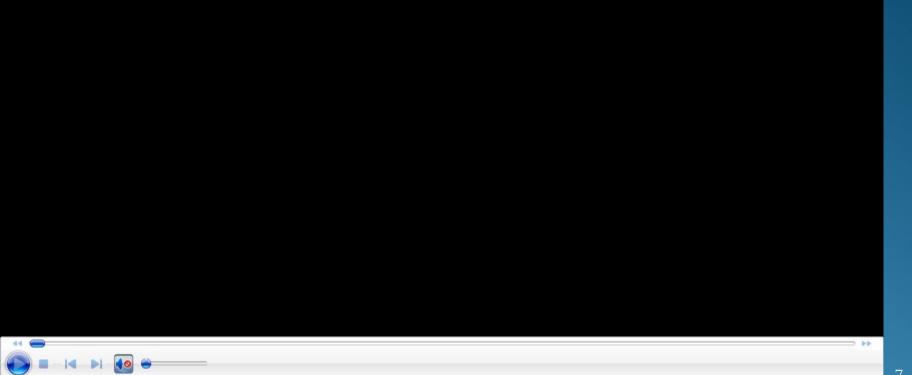


Mountain View - El Camino Real and Distel Cir





## Proposed Intersection Improvements



## PHB Advantages

- Yield Rate exceeds 90%
- Beacons are off when there are no pedestrians
- Can be coordinated with nearby traffic signals
- Less traffic delay than a traffic signal
- Lower installation costs than traffic signal

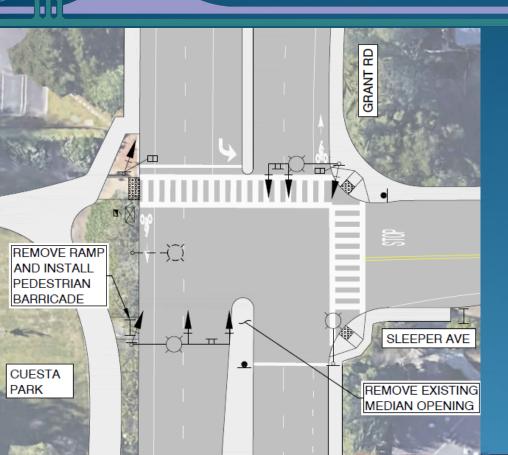
## **Challenge**

Motorists have less familiarity

## Project Alternatives

- 1. Pedestrian Hybrid Beacon (PHB) with a northern crosswalk
- 2. <u>Pedestrian Hybrid Beacon (PHB) with a southern crosswalk</u> and left-turn restriction from Sleeper Avenue
- 3. Traffic signal with a northern crosswalk
- 4. Keep existing condition as-is

# Comparison of Alternatives Alternative 1 – PHB with a Northern Crosswalk



#### **Pros**

No left turn conflict for pedestrians crossing

#### Cons

• Right turn movement conflicts with pedestrians

## Comparison of Alternatives

Alternative 2 - PHB With a Southern Crosswalk and Left-turn Restriction

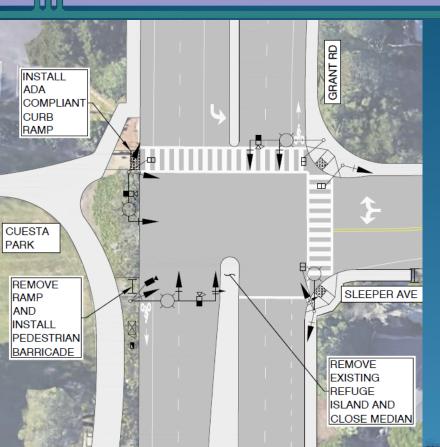


- Peak Hour Left Turns from Sleeper Avenue April 2019 (Pre-COVID):
  - 7:30 A.M. 8:30 A.M.: 3 Vehicles
  - 11:30 A.M. 12:30 P.M.: 2 Vehicles
  - 4:30 P.M. 5:30 P.M.: 0 Vehicles

#### Pros

- No left turn conflict for pedestrians crossing
- No right turn movement conflicts with pedestrians

# Comparison of Alternatives Alternative 3 – Traffic Signal with a Northern Crosswalk



#### Pros

- Familiarity
- Highest rate of driver compliance
- Phases to reduce turning conflicts

#### Cons

- Highest Cost
- Highest increase in vehicular congestion and delay

## Comparison of Alternatives Alternative 4 – Keep Existing Condition as-is



#### **Pros**

- No associated cost
- Pedestrians and bicyclists tend to be more cautious crossing Grant Road

#### Cons

- Absence of marked crosswalk
- Distance to next crossing is far

# Community Meeting

- Held on October 22, 2020 with 28 total attendees
- Community Feedback
  - Concerns with existing intersection
    - Ped/Bike/Vehicle Safety and Vehicle Speeds
    - Supported: Left Turn Restriction and Pedestrian Hybrid Beacons
    - Least supported: traffic signals and existing conditions

# B/PAC Meeting

- Held on February 24, 2021 with all members of the committee and approximately 16 members of the public.
- Committee supported alternative:
  - Alternative 2 PHB with a southern crosswalk and left-turn restriction from Sleeper Avenue
    - 4 members in favor, 1 member abstained

## Project Schedule

 Staff to take recommended alternative to Council as a consent item in May 2021

Complete study by Spring/Summer 2021

Design and Construction funding from CIP

## Recommendation

• Recommend that the City Council approve Alternative #2 - Pedestrian hybrid beacon (PHB) with a southern crosswalk and left-turn restriction from Sleeper Avenue as the preferred alternative for the Grant Road and Sleeper Avenue Intersection Study.

# Questions?

For more information/Para mas informacion:

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