

# **Encina Avenue**

## **(from Middlefield Road to End)**

March 10, 2021

County of San Mateo  
Department of Public Works

**COUNTY OF SAN MATEO**



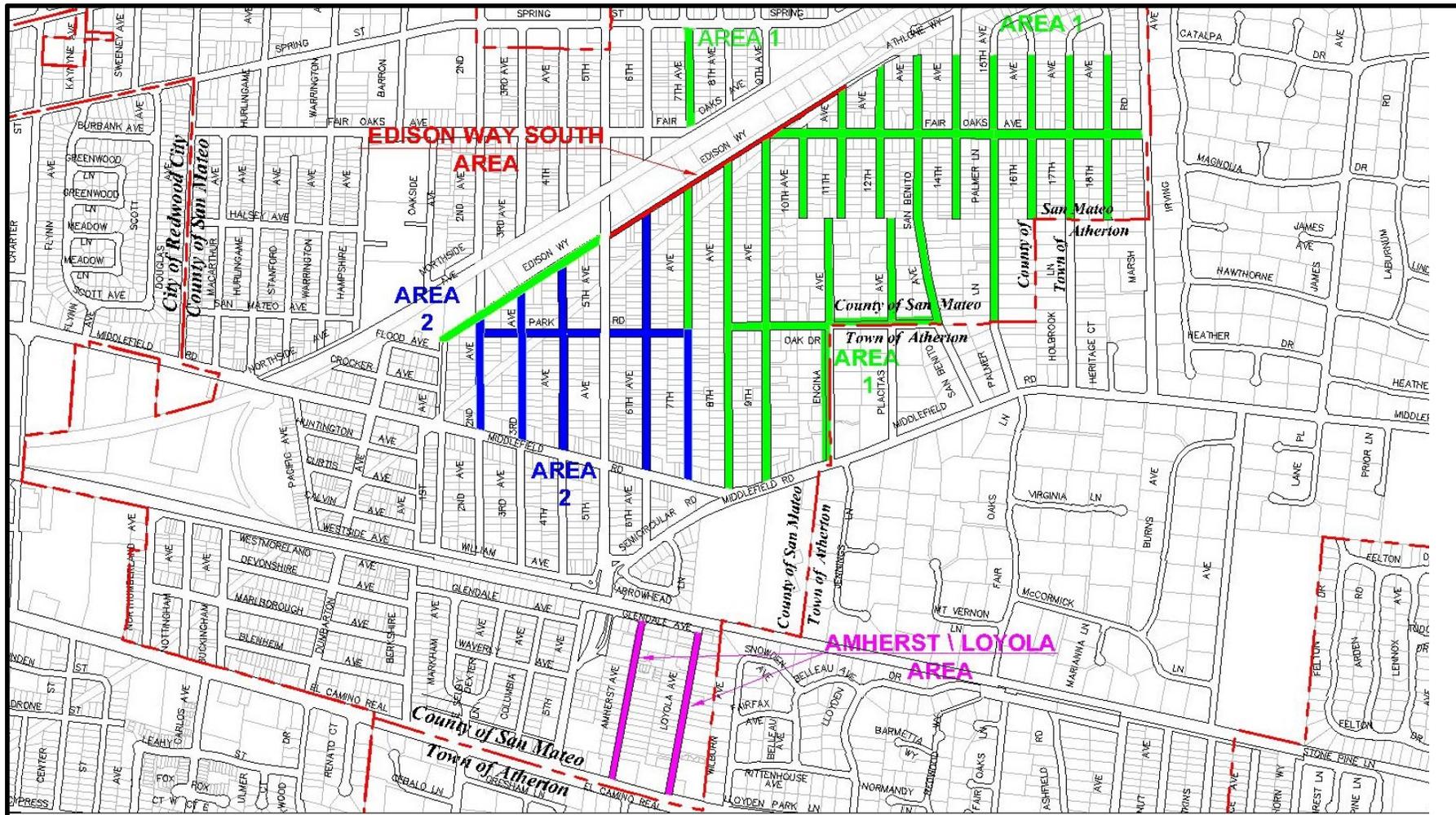
# Agenda

- North Fair Oaks Area Road Improvement Standards and Priority List
- Project Description, Paint Markings, Property Owner Survey, and Survey Results Decision Tree
- Design Issues and Elements
- Proposed Process, Timeline, and Funding
- Questions, Comments, and Input



# Road Improvement Standards and Priority List

- **2001** – Began development of Road Improvement Standards and Priority List
  - Property owner surveys on unimproved streets and public meetings
  - Priority based on drainage and road condition
- **2002** - Board of Supervisors (Board) adopted Road Improvement Standards and Priority List



**LEGEND**

-  COUNTY / TOWN / CITY LIMITS
-  AREA 1
-  AREA 2

-  EDISON WAY SOUTH AREA  
(Between 5th Avenue and 12th Avenue)
-  AMHERST/LOYOLA AREA  
(Between El Camino Real and Glendale Avenue)



COUNTY OF SAN MATEO



# North Fair Oaks Area Priority List

Priority No	Road Name	Begin Location	End Location
1	EDISON WAY	5TH AVENUE	11TH AVENUE (END)
2	EDISON WAY	1ST AVENUE	5TH AVENUE
3	11TH AVENUE	EDISON WAY	END (SOUTHWEST OF FAIR OAKS AVENUE)
4	12TH AVENUE	END (SOUTHWEST OF FAIR OAKS AVENUE)	END (NORTHEAST OF FAIR OAKS AVENUE)
5	2ND AVENUE	MIDDLEFIELD ROAD	EDISON WAY
6	FAIR OAKS AVENUE	EDISON WAY	MARSH ROAD
7	9TH AVENUE	MIDDLEFIELD ROAD	EDISON WAY
8	OAK DRIVE	8TH AVENUE	SAN BENITO AVENUE
9	PLACITAS AVENUE	OAK DRIVE	END (NORTHEAST OF OAK DRIVE)
10	7TH AVENUE	FAIR OAKS AVENUE	SPRING STREET
11	3RD AVENUE	MIDDLEFIELD ROAD	EDISON WAY
12	14TH AVENUE	END (SOUTHWEST OF FAIR OAKS AVENUE)	300' SOUTHWEST OF ATHLONE WAY
13	15TH AVENUE / PALMER LANE	789 15TH AVENUE	COUNTY BOUNDARY (AT 501 PALMER LANE)
14	AMHERST AVENUE	EL CAMINO REAL	GLENDALE AVENUE
15	10TH AVENUE	END (SOUTHWEST OF FAIR OAKS AVENUE)	FAIR OAKS AVENUE

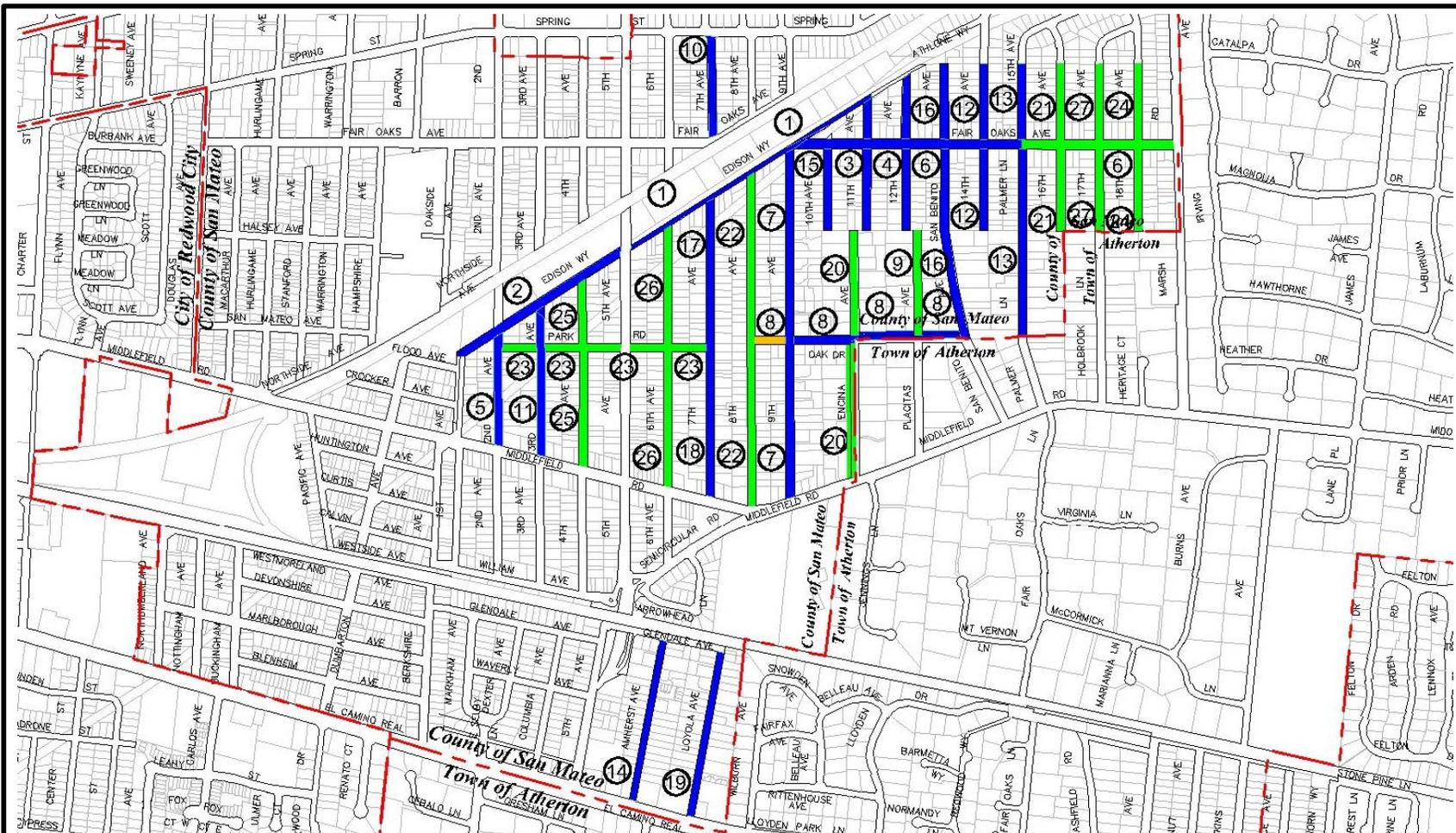


# North Fair Oaks Area Priority List



Priority No	Road Name	Begin Location	End Location
16	SAN BENITO AVENUE	OAK DRIVE	END (NORTHEAST OF FAIR OAKS AVENUE)
17	7TH AVENUE	PARK ROAD	EDISON WAY
18	7TH AVENUE	MIDDLEFIELD ROAD	PARK ROAD
19	LOYOLA AVENUE	EL CAMINO REAL	GLENDALE AVENUE
20	ENCINA AVENUE	MIDDLEFIELD ROAD	END
21	16TH AVENUE	END (SOUTHWEST OF FAIR OAKS AVENUE)	COUNTY BOUNDARY (AT 789 16TH AVENUE)
22	8TH AVENUE	MIDDLEFIELD ROAD	EDISON WAY
23	PARK ROAD	2ND AVENUE	7TH AVENUE
24	18TH AVENUE	END (SOUTHWEST OF FAIR OAKS AVENUE)	247-FT SOUTHWEST OF 17TH AVENUE
25	4TH AVENUE	MIDDLEFIELD ROAD	EDISON WAY
26	6TH AVENUE	MIDDLEFIELD ROAD	EDISON WAY
27	17TH AVENUE	COUNTY BOUNDARY / HOLBROOK LANE	775 17TH AVENUE





**LEGEND**

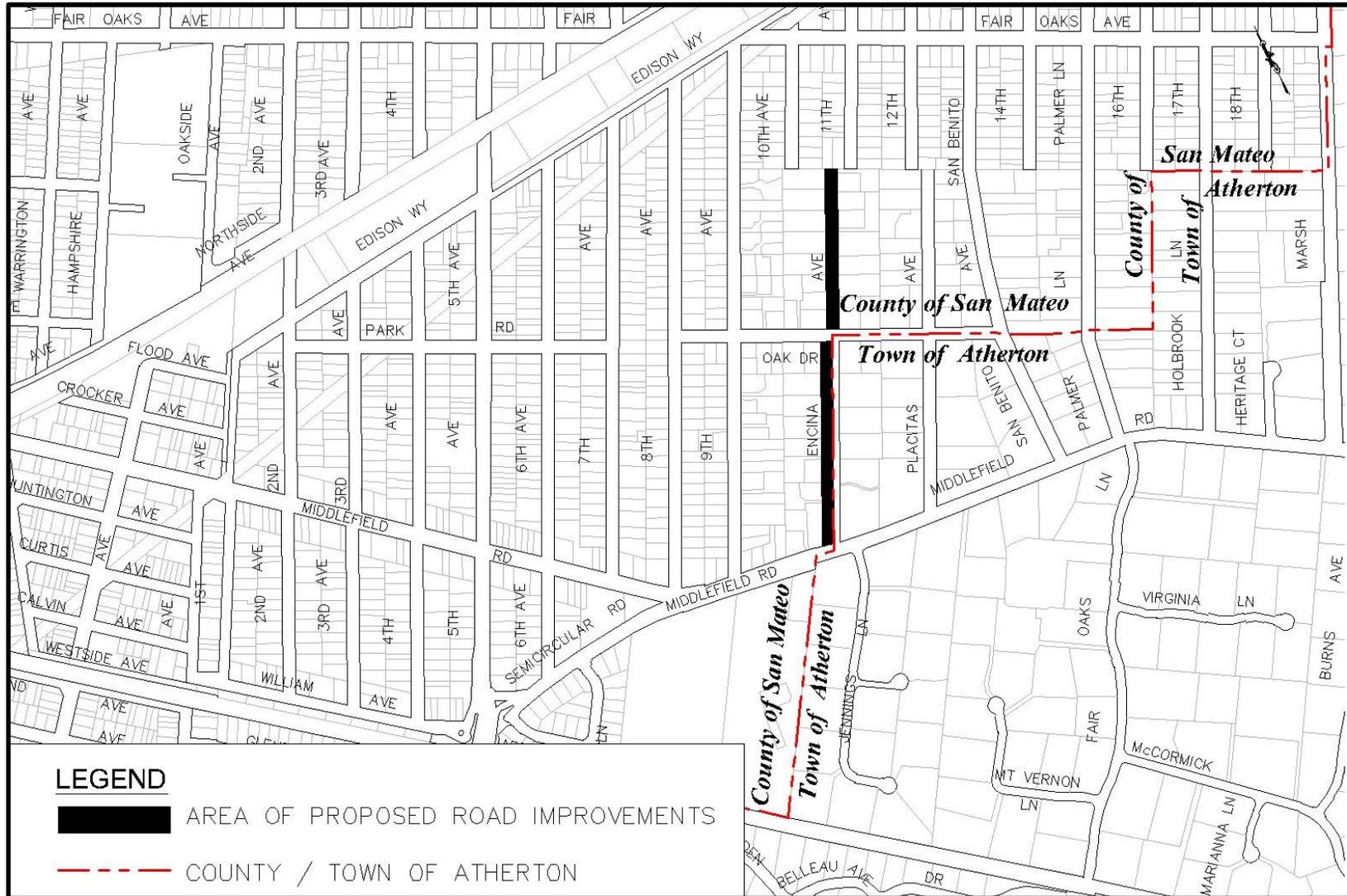
-  COUNTY / TOWN / CITY LIMITS
-  ROAD COMPLETED
-  REMAINING ON ROAD LIST
-  PROPERTY OWNERS VOTED "NO" TO IMPROVEMENTS
-  PRIORITY LIST NUMBER



COUNTY OF SAN MATEO



# Project Location



COUNTY OF SAN MATEO



# **Road Standards and Options**

## **Area 1**

### **Encina Avenue**

**(from Middlefield Road to End)**



# Road Standards and Options

- Encina Avenue From Middlefield Road to End

Option 1 – Maintain as is

Option 2 – Repair and resurface the existing pavement

Option 3 – Reconstruct road with 18 feet of pavement with 6-inch wide concrete bands

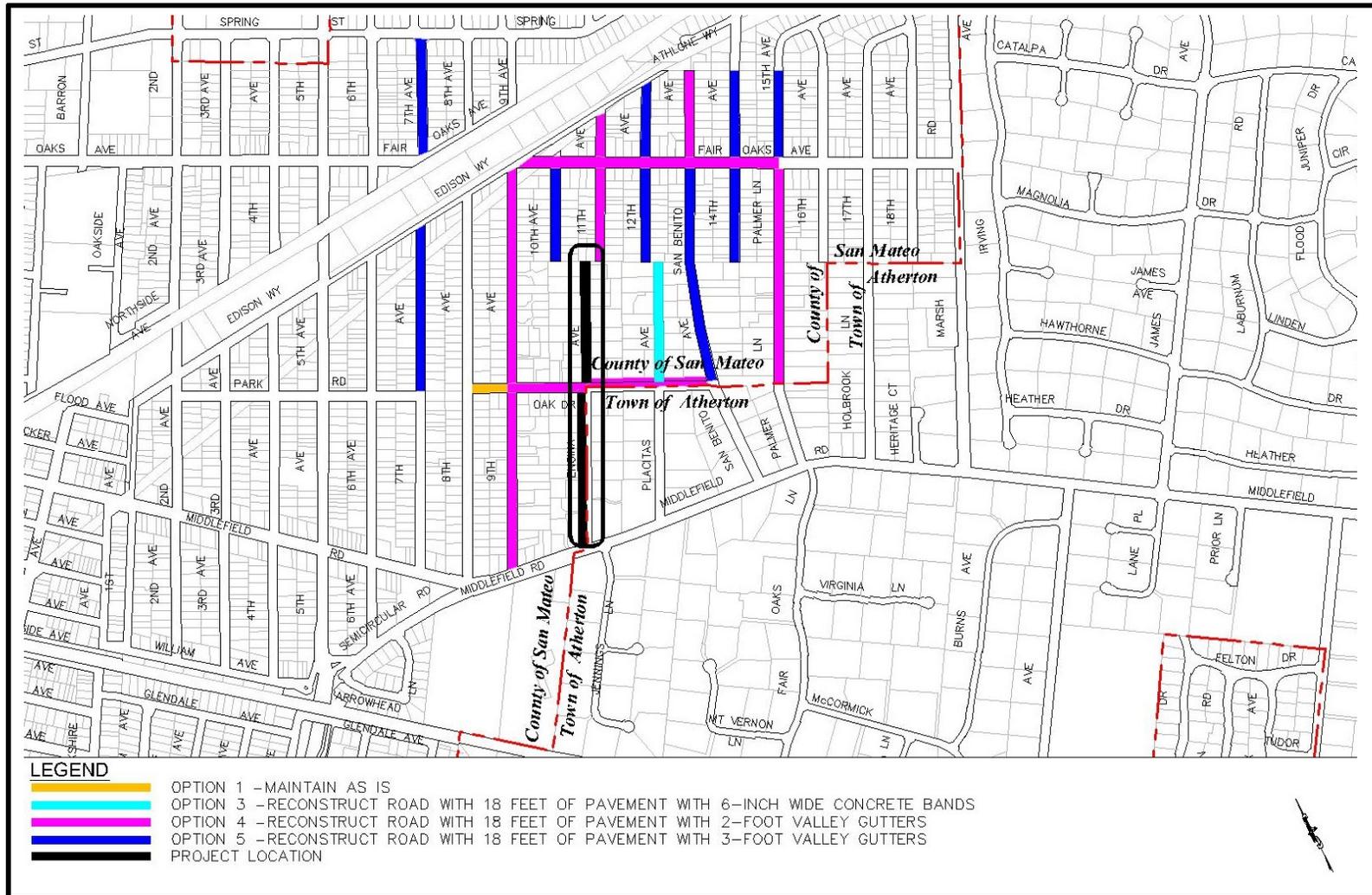
Option 4 – Reconstruct road with 18 feet of pavement with 2-foot valley gutters

Option 5 – Reconstruct road with 18 feet of pavement with 3-foot valley gutters

- Based on the Board's policy the improvements will be centered in the road right-of-way unless the road must be moved to avoid trees or other major encroachments in the road right-of-way.

# Area 1

## Sample of Constructed Road Standards



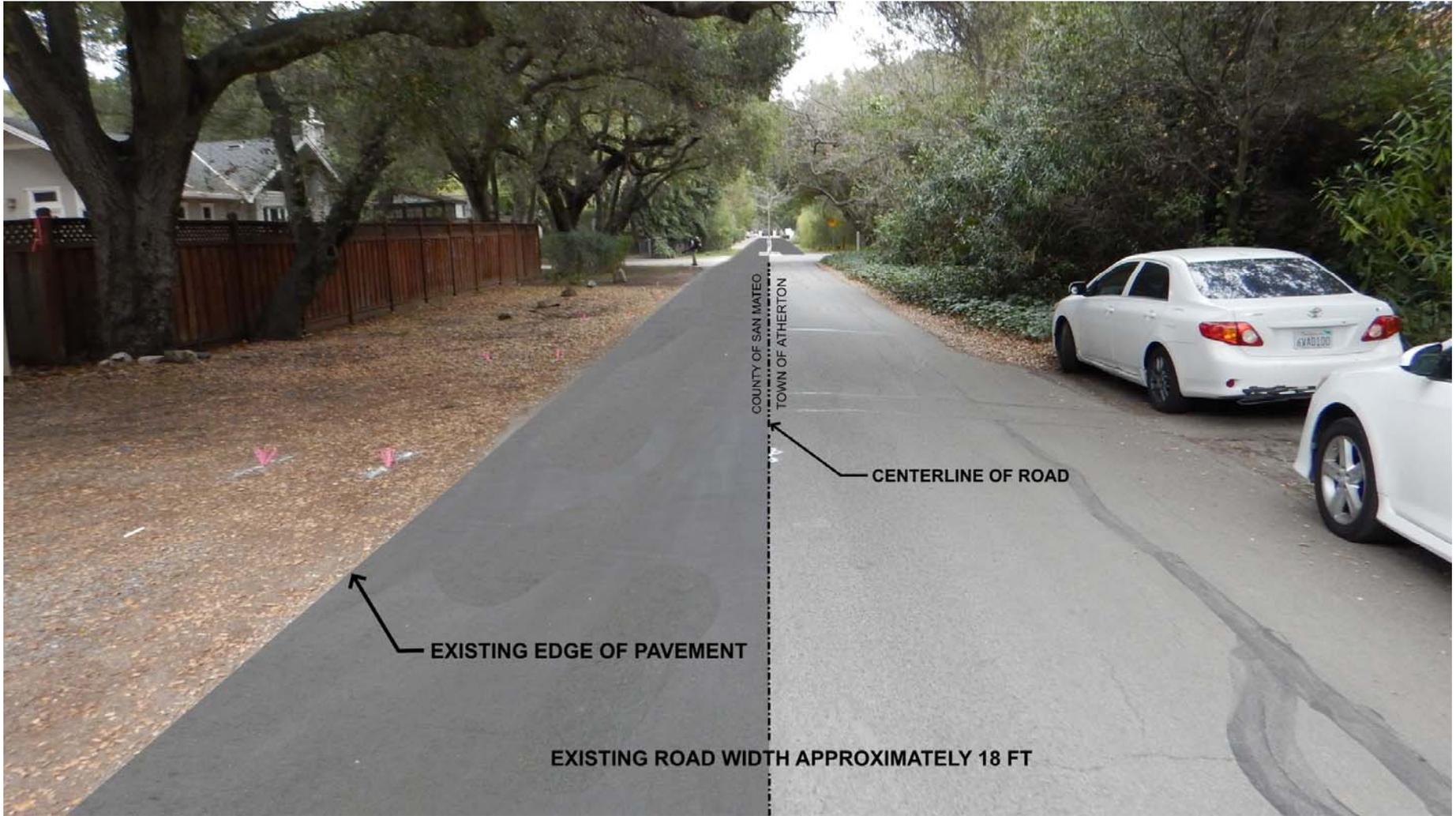
**ENCINA AVENUE**  
**MIDDLEFIELD ROAD TO OAK DRIVE (OPTION 1)**  
OPTION 1 – MAINTAIN AS IS  
(Pictorial Not Illustrated To Scale)



COUNTY OF SAN MATEO



**ENCINA AVENUE**  
**MIDDLEFIELD ROAD TO OAK DRIVE (OPTION 2)**  
**OPTION 2 – REPAIR AND RESURFACE THE EXISTING PAVEMENT**  
**(Pictorial Not Illustrated To Scale)**

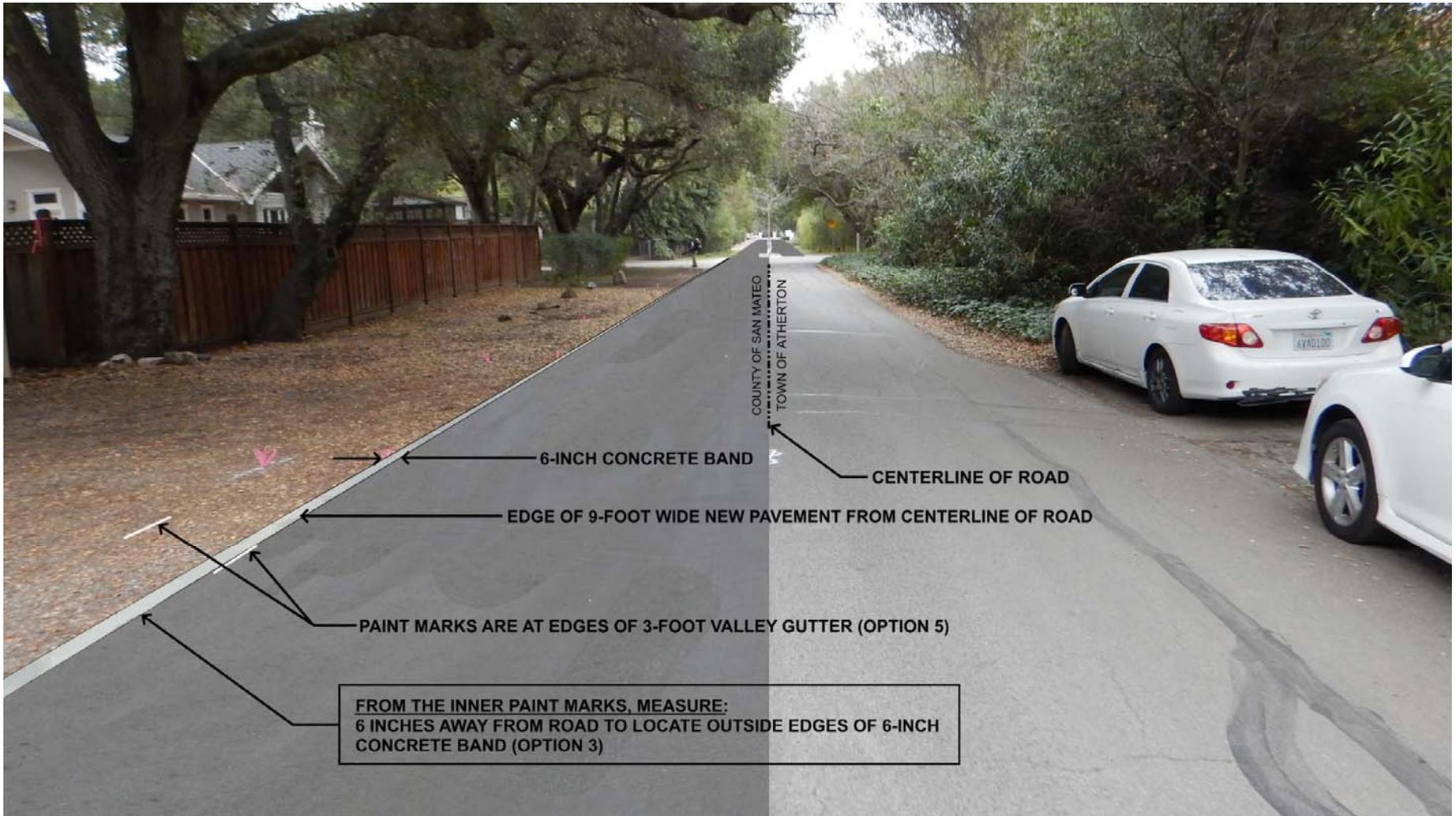


COUNTY OF SAN MATEO



# ENCINA AVENUE MIDDLEFIELD ROAD TO OAK DRIVE (OPTION 3)

**OPTION 3 – RECONSTRUCT ROAD WITH 18 FEET OF PAVEMENT WITH 6-INCH WIDE CONCRETE BANDS**  
(Pictorial Not Illustrated To Scale)



COUNTY OF SAN MATEO

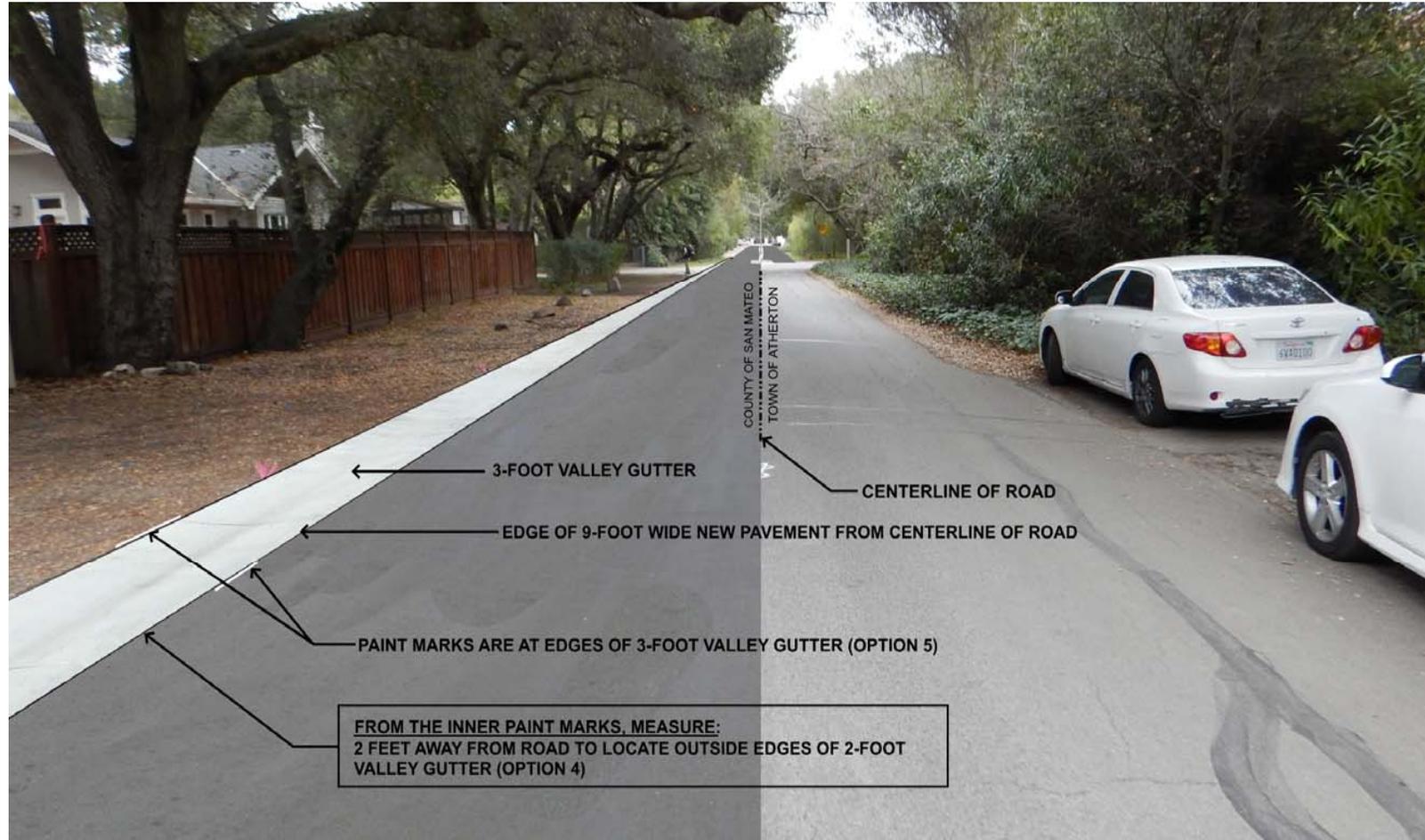


# ENCINA AVENUE (OPTIONS 4 & 5) MIDDLEFIELD ROAD TO OAK DRIVE

OPTION 4 – RECONSTRUCT ROAD WITH 18 FEET OF PAVEMENT WITH 2-FOOT VALLEY GUTTERS

OPTION 5 – RECONSTRUCT ROAD WITH 18 FEET OF PAVEMENT WITH 3-FOOT VALLEY GUTTERS

(Pictorial Not Illustrated To Scale)



COUNTY OF SAN MATEO



**ENCINA AVENUE**  
**OAK DRIVE TO END (OPTION 1)**  
OPTION 1 – MAINTAIN AS IS  
(Pictorial Not Illustrated To Scale)



COUNTY OF SAN MATEO

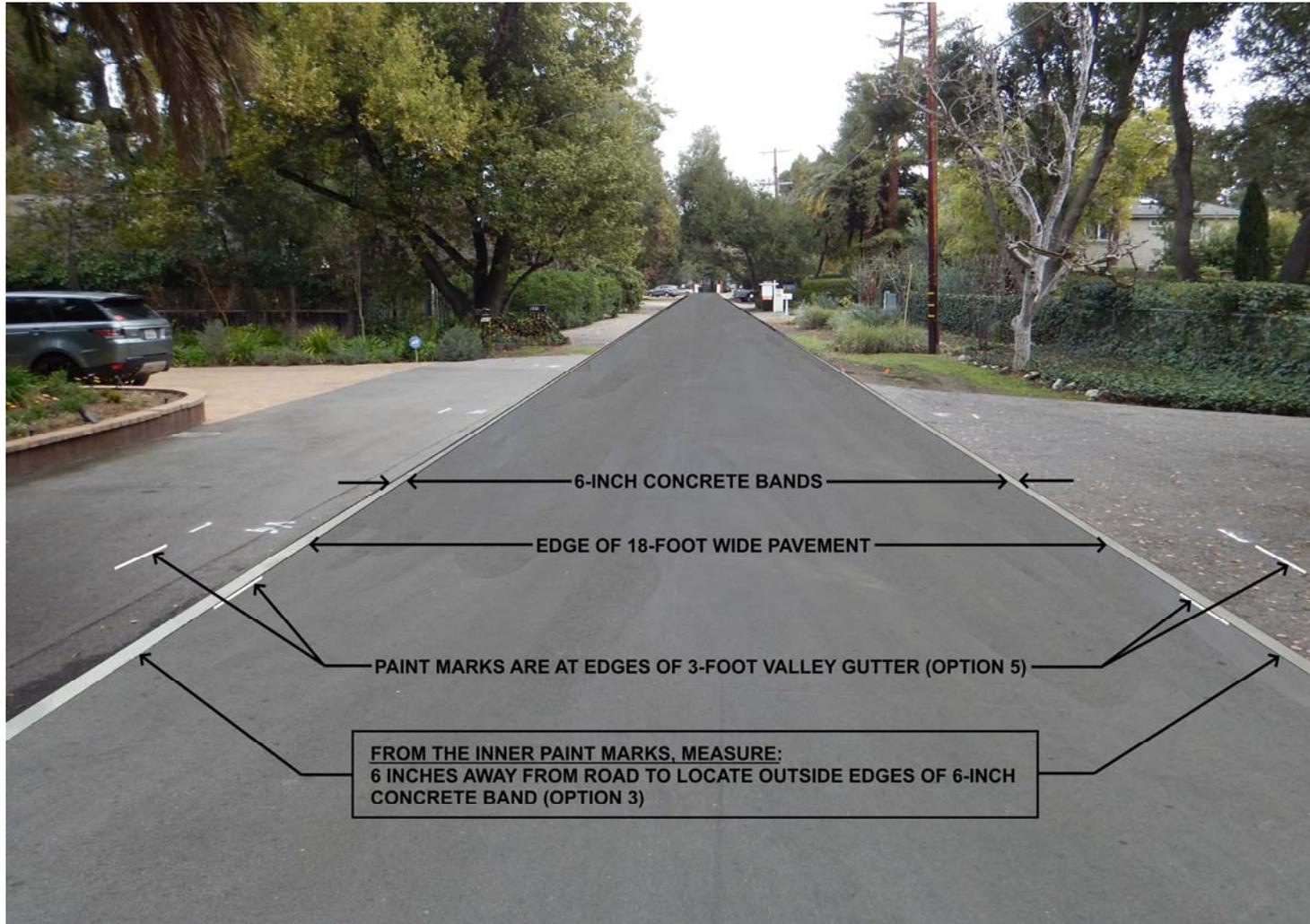


**ENCINA AVENUE**  
**OAK DRIVE TO END (OPTION 2)**  
**OPTION 2 – REPAIR AND RESURFACE THE EXISTING PAVEMENT**  
**(Pictorial Not Illustrated To Scale)**



# ENCINA AVENUE OAK DRIVE TO END (OPTION 3)

**OPTION 3 – RECONSTRUCT ROAD WITH 18 FEET OF PAVEMENT WITH 6-INCH WIDE CONCRETE BANDS**  
(Pictorial Not Illustrated To Scale)

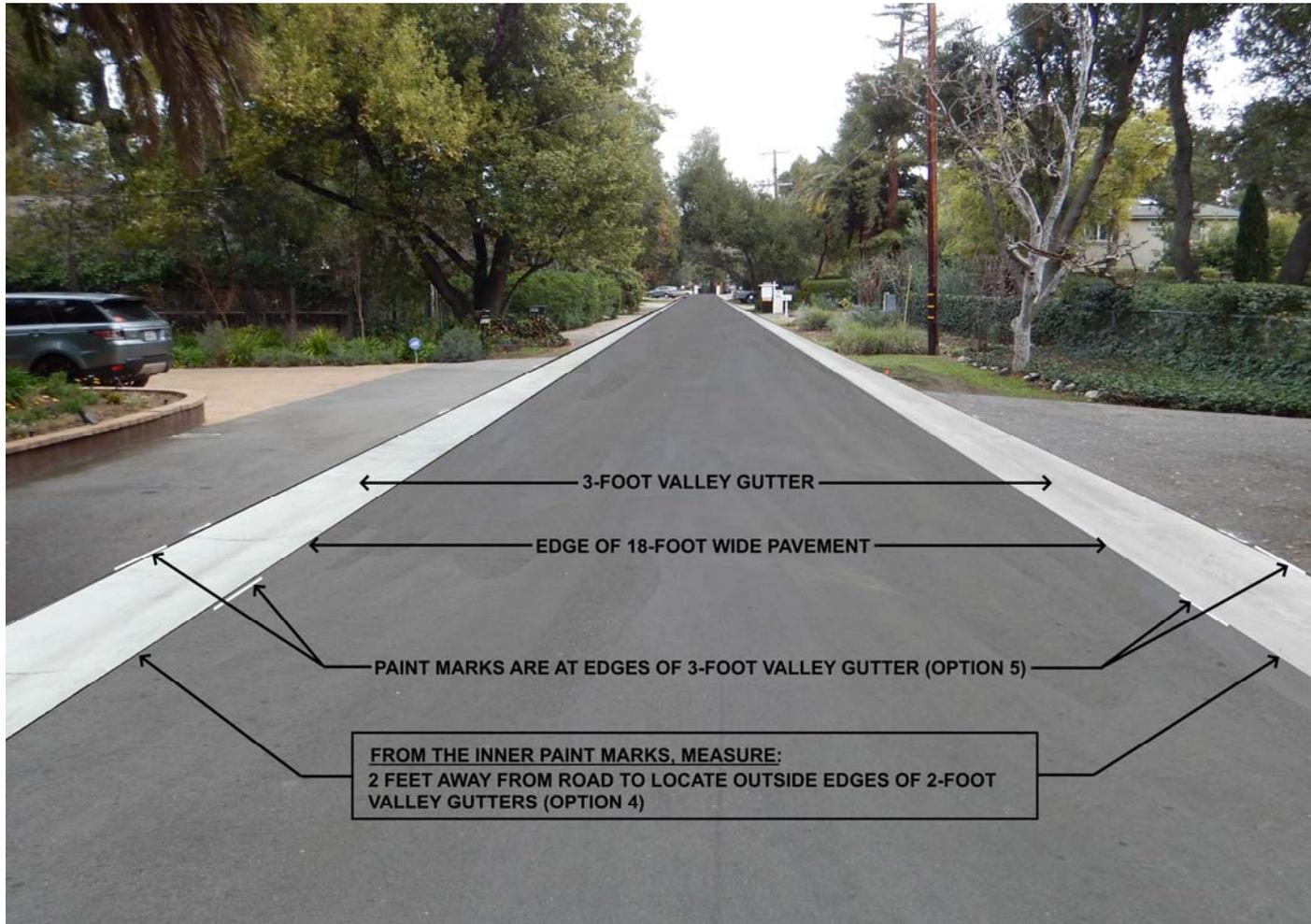


# ENCINA AVENUE OAK DRIVE TO END (OPTIONS 4 & 5)

OPTION 4 – RECONSTRUCT ROAD WITH 18 FEET OF PAVEMENT WITH 2-FOOT VALLEY GUTTERS

OPTION 5 – RECONSTRUCT ROAD WITH 18 FEET OF PAVEMENT WITH 3-FOOT VALLEY GUTTERS

(Pictorial Not Illustrated To Scale)



# Survey Encina Avenue (Middlefield Road to End)

Your input is very important to us. Please take the time to fill out the form and mail it to us by **Friday, March 19, 2021**. **Street improvements will not be constructed unless at least fifty percent (50%) of the property owners on a given block (based on front footage) indicate that improvements are desired.**

The following should be the minimum standard used for reconstructing the street adjacent to my property. (Please check only one):

- Option 1** – Maintain as is.
- Option 2** – Repair and resurface the existing pavement.
- Option 3** – Reconstruct road with 18 feet of pavement with 6-inch wide concrete bands.
- Option 4** – Reconstruct road with 18 feet of pavement with 2-foot valley gutters.
- Option 5** – Reconstruct road with 18 feet of pavement with 3-foot valley gutters.

**Note:**

Should a majority of property owners on a given block vote for improvements, the option constructed will be the one that receives at least fifty percent (50%) of the vote (based on front footage).

If no option receives at least fifty percent (50%) of the vote, then Option 3, the default option, will be constructed.



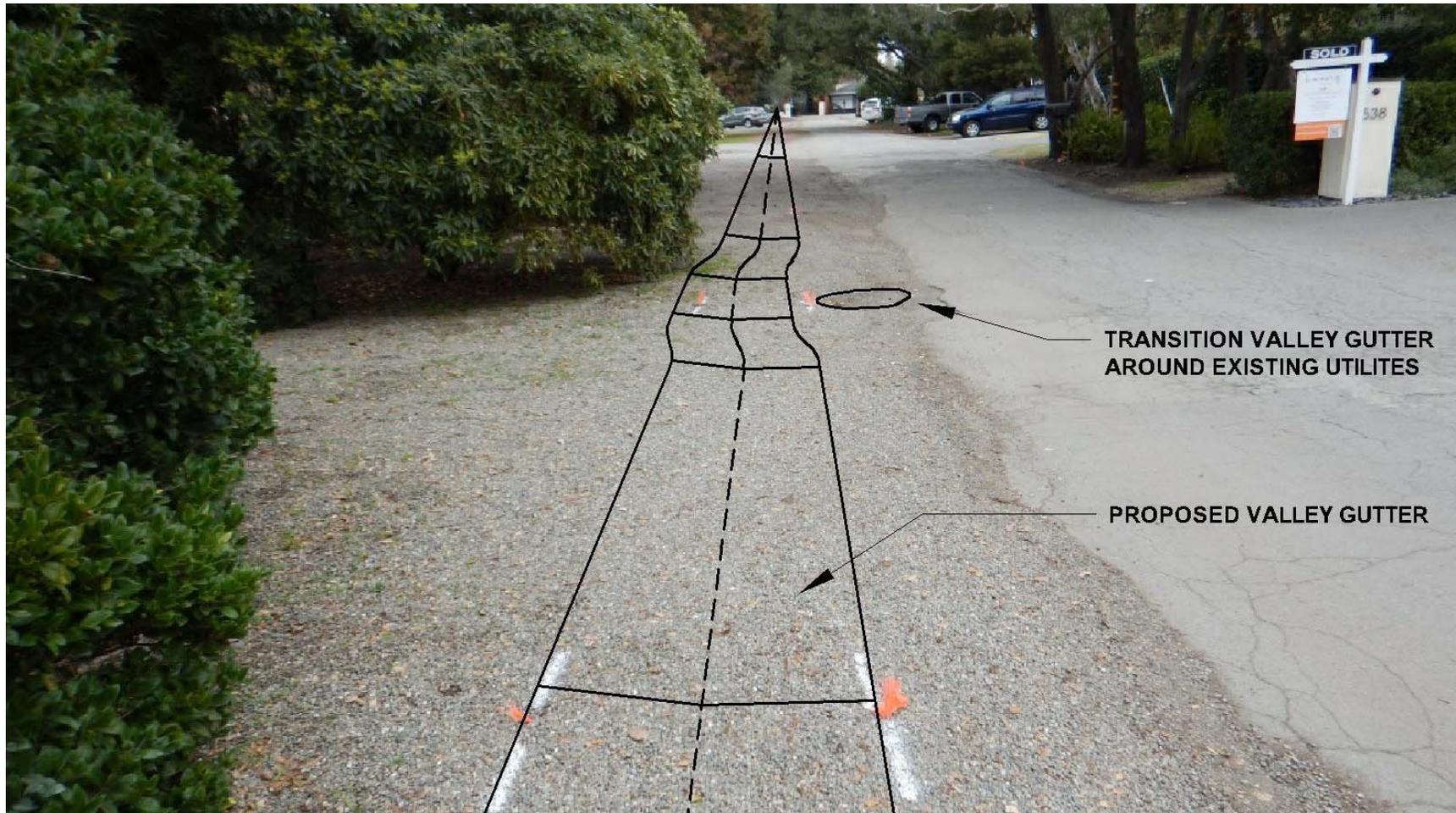
# Design Issues and Elements

Encina Avenue - from Middlefield Road to End

- Impacts to existing landscaping/shoulder area/trees/mailboxes/drainage boxes
- Relocation of existing encroachments
- Roadway drainage



# ENCINA AVE FROM MIDDLEFIELD ROAD TO END Design Issues and Elements – working around existing utilities

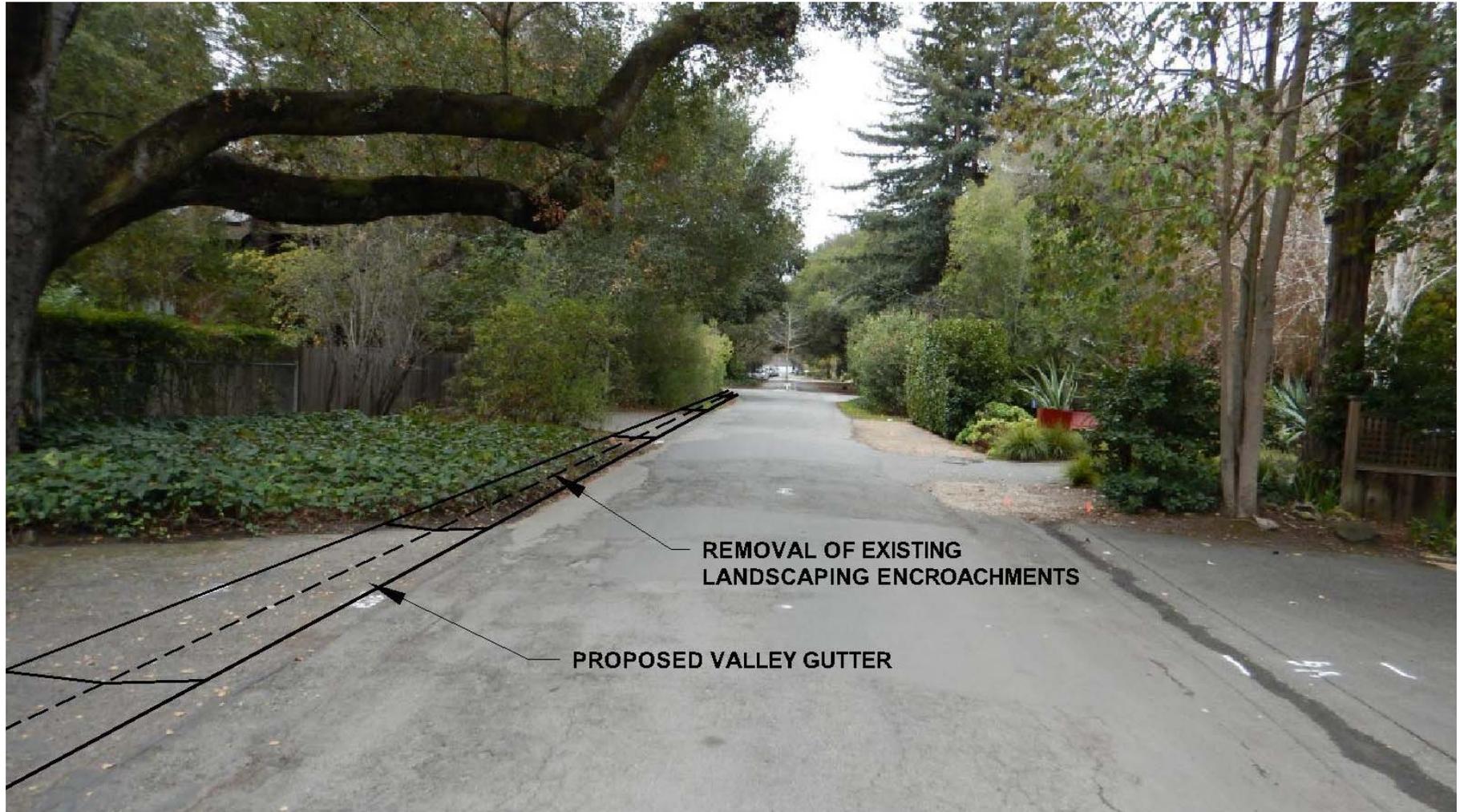


# ENCINA AVE FROM MIDDLEFIELD ROAD TO END

## Design Issues and Elements – working around landscaping and trees



# ENCINA AVE FROM MIDDLEFIELD ROAD TO END Design Issues and Elements – working around existing landscaping



## ENCINA AVE FROM MIDDLEFIELD ROAD TO END

### Design Issues and Elements – working with existing encroachments



PROPOSED VALLEY GUTTER

RELOCATION OF EXISTING  
ENCROACHMENTS - PROPERTY  
OWNER RESPONSIBILITY

COUNTY OF SAN MATEO



# Drainage Considerations

## Existing drainage conditions on Encina:

- Stormwater drainage generally flows along Encina from Middlefield Road to the end
- Encina, like many roads in the North Fair Oaks area, does not have an underground storm drain system to move the water away from Encina
- Stormwater flows along the road shoulders and many shoulder areas are permeable
- Localized ponding at low points in the shoulder areas
- Permeable roadway shoulder areas allow for stormwater to infiltrate into ground and helps reduce flooding at the end of Encina

**Option 1 (Maintain as is) and Option 2 (Repair & Resurface):** Allows for existing drainage patterns to remain

**Option 3 (6” concrete band):** Generally allows for existing drainage patterns to exist including infiltration into permeable shoulder areas

**Option 4 or 5 (2ft or 3ft concrete valley gutters):** Convey stormwater more efficiently, removes significant areas of permeability, and likely exacerbate ponding at end of road – the County would not recommend these options due to stormwater issues

**For Options 3 through 5, the design would need to include evaluation of subsurface storage and infiltration facilities as has been used on other roads in North Fair Oaks (Oak Avenue, Placitas Avenue, and San Benito Avenue). This evaluation must be very site specific and can only be used where there are no conflicts with existing underground facilities.**

**DRAINAGE OPTION THAT COULD BE CONSIDERED**  
**In areas where there are no underground utilities in conflict**



# Project Funding

- Construction of the roadway options presented
- Work outside of project scope:
  - Landscaping, shoulder and driveway work beyond the required project limit
  - If Property Owners have been contemplating sewer lateral work, completing it prior to roadway work would be advised. Property owners are responsible for maintenance, repair and replacement of the sewer lateral from house to the sewer main in the street.

# Other Work

## Town of Atherton

- Atherton's input about work on their segment

## Utilities

- Cal Water - indicated they need to replace their existing water line
- PG&E - may need to perform work on their existing gas line
- Sewer - may need to perform work on their existing sewer line
- Any underground utility work to be done will need to happen before any roadwork to avoid damage to the new road.

## Proposed Subdivision at End of Cul de Sac

- Our understanding is that there is a proposed 5 lot subdivision that will require careful coordination.

## Schedule

- These items may impact the schedule since we want the best outcome for the roadway.

# Proposed Process & Timeline\*

## Encina Avenue

- **February/March 2021**: Conduct property owner survey and meet with property owners and
- **March 2021**: Determine if there is a project and standard to be used
- **Spring 2021**: Develop project scope and design project
- **Summer 2021**: Advertise and bid out project
- **Late Summer 2021**: Project construction

\* Utility work could affect timeline

# Thank you

## Questions, Comments, and Input

### Contact:

John Schabowski  
[jschabowski@smcgov.org](mailto:jschabowski@smcgov.org)  
650-363-4100

Wency Ng  
[wng@smcgov.org](mailto:wng@smcgov.org)  
650-363-4100

Alex Zhang  
[azhang@smcgov.org](mailto:azhang@smcgov.org)  
650-363-4100

Project Website (presentation will be posted here):

<https://publicworks.smcgov.org/projects/encina-avenue-reconstruction>

**COUNTY** OF **SAN MATEO**

