



**CITY OF SOUTH PASADENA  
PUBLIC WORKS COMMISSION**

**AMENDED AGENDA**  
**REGULAR MEETING**  
**WEDNESDAY, JULY 10, 2024, AT 6:30 P.M.**

**CITY COUNCIL CHAMBERS**  
**1424 MISSION STREET, SOUTH PASADENA, CA 91030**

**South Pasadena Commission Statement of Civility**

*As your appointed governing board, we will treat each other, members of the public, and city employees with patience, civility and courtesy as a model of the same behavior we wish to reflect in South Pasadena for the conduct of all city business and community participation. The decisions made today will be for the benefit of the South Pasadena community and not for personal gain.*

**NOTICE ON PUBLIC PARTICIPATION & ACCESSIBILITY**

The South Pasadena Public Works Commission Meeting will be conducted in-person from the Council Chambers, Amedee O. "Dick" Richards, Jr., located at 1424 Mission Street, South Pasadena.

Public participation may be made as follows:

- In Person – Council Chambers, 1424 Mission Street, South Pasadena, CA 91030
- Via Zoom – **Webinar ID: 859 3138 6653**
- Written Public Comment – written comment must be submitted by 12:00 p.m. the day of the meeting by emailing to [pwcpubliccomments@southpasadenaca.gov](mailto:pwcpubliccomments@southpasadenaca.gov)
- Via Phone – +1-669-900-6833 and entering the Zoom Meeting ID listed above.

Meeting may be viewed at:

1. Go to the Zoom website, <https://zoom.us/join> and enter the Zoom Meeting information; or
2. Click on the following unique Zoom meeting link: <https://us06web.zoom.us/j/85931386653>

**CALL TO ORDER:** Chair Omari Ferguson

**ROLL CALL:** Commissioners: Omari Ferguson, Sam Hernandez, Ryan Jones, David Maling; Vice-Chair Charles Trevino

**PLEDGE OF ALLEGIANCE:** Chair Omari Ferguson

**PUBLIC COMMENT GUIDELINES** (*Public Comments are limited to 3 minutes*)

The City welcomes public input. Members of the public can comment on a non-agenda subject under the jurisdiction of the City Council or on an agenda item, you may participate **by one of the following options:**

## Option 1:

Participate in-person at the City Council Chambers.

## Option 2:

Public Comment speakers have three minutes to address the Council, however, the Chair and Commission can adjust time allotted as needed. Participants will be able to “raise their hand” using the Zoom icon during the meeting, and they will have their microphone un-muted during comment portions of the agenda to speak.

## Option 3:

Email public comment(s) to [pwcpubliccomments@southpasadenaca.gov](mailto:pwcpubliccomments@southpasadenaca.gov)

Public Comments received in writing will not be read aloud at the meeting, but will be part of the meeting record. Written public comments will be uploaded online for public viewing under Additional Documents. There is no word limit on emailed Public Comment(s). Please make sure to indicate:

- 1) Name (optional), and
- 2) Agenda item you are submitting public comment on.
- 3) Submit by no later than **12:00 p.m.**, on the day of the Council meeting.

PLEASE NOTE: The Chair may exercise the Chair's discretion, subject to the approval of the majority of the Commission to adjust public comment(s) to less than three minutes.

*NOTE: Pursuant to State law, the Commission may not discuss or take action on issues not on the meeting agenda, except that members of the Commission or staff may briefly respond to statements made or questions posed by persons exercising public testimony rights (Government Code Section 54954.2). Staff may be asked to follow up on such items.*

**PUBLIC COMMENT****1. PUBLIC COMMENT – GENERAL (NON-AGENDA ITEMS)**

General Public Comment will be limited to 30 minutes at the beginning of the agenda. If there are speakers remaining in the queue, they will be heard at the end of the meeting. Only Speakers who sign up in the first 30 minutes of public comment will be queued up to speak.

**PRESENTATION****2. STREET IMPROVEMENT PROGRAM & PAVEMENT MANAGEMENT PLAN REVIEW**

**ACTION/DISCUSSION**

**3. APPROVAL OF MINUTES OF MAY 8, 2024, PUBLIC WORKS COMMISSION REGULAR MEETING**

Recommendation

It is recommended that the Commission review and consider approval of the May 8, 2024, Regular Meeting Minutes.

**COMMUNICATIONS**

**4. CITY COUNCIL LIAISON COMMUNICATIONS**

**5. COMMISSIONER COMMUNICATIONS**

**6. STAFF LIAISON COMMUNICATIONS**

**ADJOURNMENT**

***FOR YOUR INFORMATION***

**FUTURE PUBLIC WORKS COMMISSION MEETINGS**

September 11, 2024	Regular Public Works Commission Meeting	6:30 p.m.
November 13, 2024	Regular Public Works Commission Meeting	6:30 p.m.
January 8, 2024	Regular Public Works Commission Meeting	6:30 p.m.

**PUBLIC ACCESS TO AGENDA DOCUMENTS AND BROADCASTING OF MEETINGS**


Commission meeting agenda packets, any agenda related documents, and additional documents are available online for public inspection on the City’s website:

<https://www.southpasadenaca.gov/government/boards-commissions>

**AGENDA NOTIFICATION SUBSCRIPTION**

If you wish to receive an agenda email notification, please contact the Public Works Department via email at [pwcpubliccomments@southpasadenaca.gov](mailto:pwcpubliccomments@southpasadenaca.gov) or call (626) 403-7370.

**ACCOMMODATIONS**

 The City of South Pasadena wishes to make all of its public meetings accessible to the public. If special assistance is needed to participate in this meeting, please contact the Public Works Department at (626) 403-7370 or [pwcpubliccomments@southpasadenaca.gov](mailto:pwcpubliccomments@southpasadenaca.gov). Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities. Notification at least 48 hours prior to the meeting will assist staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting (28 CFR 35.102-35.104 ADA Title II).

**CERTIFICATION OF POSTING**

*I declare under penalty of perjury that I posted this notice of agenda for the meeting to be held on **January 4, 2024**, on the bulletin board in the courtyard of City Hall at 1414 Mission Street, South Pasadena, CA 91030, and on the City's website as required by law, on the date listed below.*

7/3/2024

/S/

Date

Reyna Salazar-Martin, Management Analyst



# Public Works Commission Agenda Report

ITEM NO. 2

**DATE:** July 2, 2024  
**FROM:** H. Ted Gerber, Director of Public Works  
**SUBJECT** **Street Improvement Program & Pavement Management Plan Review**

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## **Recommendation**

It is recommended that the Public Works Commission (PWC) receive a presentation on the City's Streets Improvement Program implementation and provide general recommendations and advisement related to staff's efforts.

## **Background**

In April 2023, the City Council held a special study session to review City staff's proposed plan to implement several street improvement projects, and review an update to the approach for street improvements moving forward. In January 2024, PWC briefly reviewed an initial proposed map representing areas of South Pasadena, dividing the City into sections/zones to implement this approach.

## **Discussion**

City staff have been working with a team of consultants in multiple areas including pavement condition surveying, geographic information system (GIS) analysis, overall street improvement program planning, and street improvement civil, mechanical, landscape, and electrical design. The 2023 pavement condition inspection has been completed. During this Commission meeting, Staff will present the inspection data and subsequent technical and financial analysis developed over the last several months. In addition, staff will present future street improvement projects, including those listed in the Fiscal Year 2024-2025 project list and expenditure plan resolution for streets intended to be funded by the Senate Bill 1 (SB 1) Road Repair and Accountability Act of 2017.

## **Attachment**

Streets Program Presentation

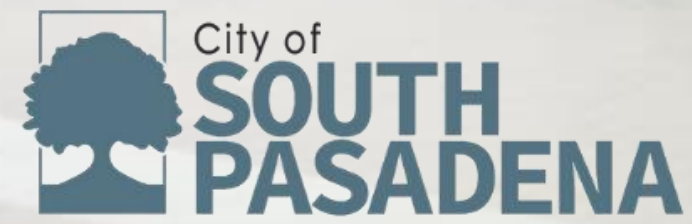
## **Item 2 Attachment**

### **Street Improvement Program & Pavement Management Plan Review Presentation**

# Street Improvement Program & Pavement Management Plan

**July 10, 2024**

**Prepared By: Public Works Department**



# Current Projects

- **Project 1 Complete:** Monterey (West side), Alta Vista, Sterling (east of Grand), Forest (north of Mission)
- **Project 2 in Water & Sewer Design:** Arroyo Verde, Glendon Way (Lyndon to Monterey), Mill, Milan (Oak to Edgewood), Edgewood, Pine (Meridian to Ramona/Huntington), Oneonta Knoll, Maple (Meridian to Huntington), Maple (Fremont to Primrose),
- **Project 3 in To Be Advertised:** Surface Treatments in Proposed Zone(s) to be discussed this evening
- **Project 4 in Design:** Intersection at Mission / Pasadena Ave / Arroyo Dr



# Since Last Update

- **Completed condition survey and identified priority areas based on collective factors (condition, utilities, use, feasibility, etc.).**
- **PWC & MTIC Commission Reviews**
- **Applied for Safe Streets and Roads for All (SS4A)“Action Plan” Planning Grant to access Bipartisan Infrastructure Law U.S. Department of Transportation Funding**
- **Developed cost estimates and reviewed long-term budget planning**
- **Discussing plan with City Council on 6/18**

# Pavement Management Program

- *Approximately:*
- 68 miles of Streets
  - 27 miles Arterial/Collector streets
  - 39 miles Local
  - 2 miles Alleys
- Condition Assessment & Analysis

# Asphalt Condition Examples



## Alligator Cracking

Cracks that form a chicken wire or alligator scale like pattern.

**Low Severity:** Thin parallel longitudinal cracks that may come together at certain points, but full alligator pattern is not present yet.

**Medium Severity:** Further development of cracks into alligator pattern. Cracks are starting to spall.

**High Severity:** Alligator pattern is heavily developed, and cracks are spalled to the point where individual pieces may become separated.

Typical Recommendation: Low severity, R&R – Patching, crack sealing; high severity R&R-overlay



# Asphalt Condition Examples



## Depression

Localized area of pavement with a lower elevation than the surrounding pavement.

**Low Severity:** depth of ½ to 1 inch.

**Medium Severity:** depth of 1 to 2 inches.

**High Severity:** depth greater than 2 inches.

Typical Recommendation: R&R - Patching



## Block Cracking

Longitudinal and transverse cracks that intersect to form smaller than 10x10 ft blocks. Creates uniform blocks with straight edges.

**Low Severity:** Cracking is less than 3/8 inches.

**Medium Severity:** Cracking between 3/8 and 3 inches.

**High Severity:** Cracking is over 3 inches.

Typical Recommendation: Low severity, crack sealing; high severity, R&R-overlay

# Asphalt Condition Examples

## Pothole

Severity Measured using the following Matrix.



	Average Diameter (in.) (mm)		
Maximum Depth Of Pothole (in.) (mm)	4 to 8 in. (100 to 200 mm)	8 to 18 in. (200 to 460 mm)	18 to 30 in. (460 to 760 mm)
1/2 to ≤ 1 in. (13 to 25 mm)	L	L	M
> 1 to ≤ 2 in. (25 to 50 mm)	L	M	H
> 2 in. (50 mm)	M	M	H

# Concrete Condition Examples



## Corner Break

Crack close to corner of slab that creates a corner piece.

**Low Severity:** Crack is less than ½ inches wide.

**Medium Severity:** Crack is between ½ and 2 inches wide.

**High Severity:** Crack is wider than 2 inches.



## Punchout

Localized area of a slab that is broken into many pieces. Severity is determined by the following matrix.

Severity of Majority of Cracks	Number of Pieces		
	2 to 3	4 to 5	> 5
L	L	L	M
M	L	M	H
H	M	H	H



# Concrete Condition Examples



## Divided Slab

Slab that is broken up into four or more pieces by cracks.

Severity is determined by the following matrix.

Severity Of Majority Of Cracks	Number Of Pieces In Cracked Slab		
	4 to 5	6 to 8	More than 8
L	L	L	M
M	L	M	H
H	M	H	H



## Joint Spall

Breakdown of slab at a joint. Crack angles toward joint as opposed to straight down.

Severity is determined by the following matrix.

Spall Pieces	Width of Spall	Length of Spall	
		≤ 2 ft (0.6 m)	> 2 ft (0.6 m)
Tight: Cannot be easily removed (maybe a few pieces missing)	≤ 4 in. (102 mm)	L	L
	> 4 in.	L	L
Loose: Can be removed and some pieces are missing; if most or all pieces are missing, spall is shallow, less than 25 mm (1 in.)	≤ 4 in.	L	M
	> 4 in.	L	M
Missing: Most or all pieces have been removed	≤ 4 in.	L	M
	> 4 in.	M	H

# PCI Classifications

Causes & Distress Types			
Climate	Load	Other	
Asphalt Block Cracking	Asphalt Alligator Cracking	Asphalt Bleeding	Asphalt Raveling
Asphalt Joint Reflection Cracking		Asphalt Bumps/Sags	Concrete Faulting
Asphalt Lane Shoulder Drop-Off	Asphalt Edge Cracking	Asphalt Corrugation	Concrete Small Patching
Asphalt L&T Cracking	Asphalt Rutting	Asphalt Depression	Concrete Large Patching
Asphalt	Concrete Corner Break	Asphalt Patch / Utility Cut	Concrete Popouts
Concrete Blow up	Concrete Divided Slab	Asphalt Polished Aggregate	Concrete Pumping
Concrete Durability Cracking	Concrete Linear Cracking	Railroad Crossing	Concrete Scaling / Cracking
Joint Seal Cracking	Concrete Polished Aggregate	Asphalt Shoving	Concrete Shrinkage Cracking
Concrete Lane Shoulder Drop-off		Asphalt Slippage Cracking	Concrete Corner Spall
	Concrete Punchout	Asphalt Swell	Concrete Joint Spall

Climate Based PCI

Load Based PCI

PCI Based on Other Factors



Overall PCI



# Pavement Management Program

## 2020 Pavement Condition Index (out of 100)

- Arterial / Collector PCI      68.2      Fair
- Local network PCI            58.9      Poor
- Average PCI                    63.8      Fair



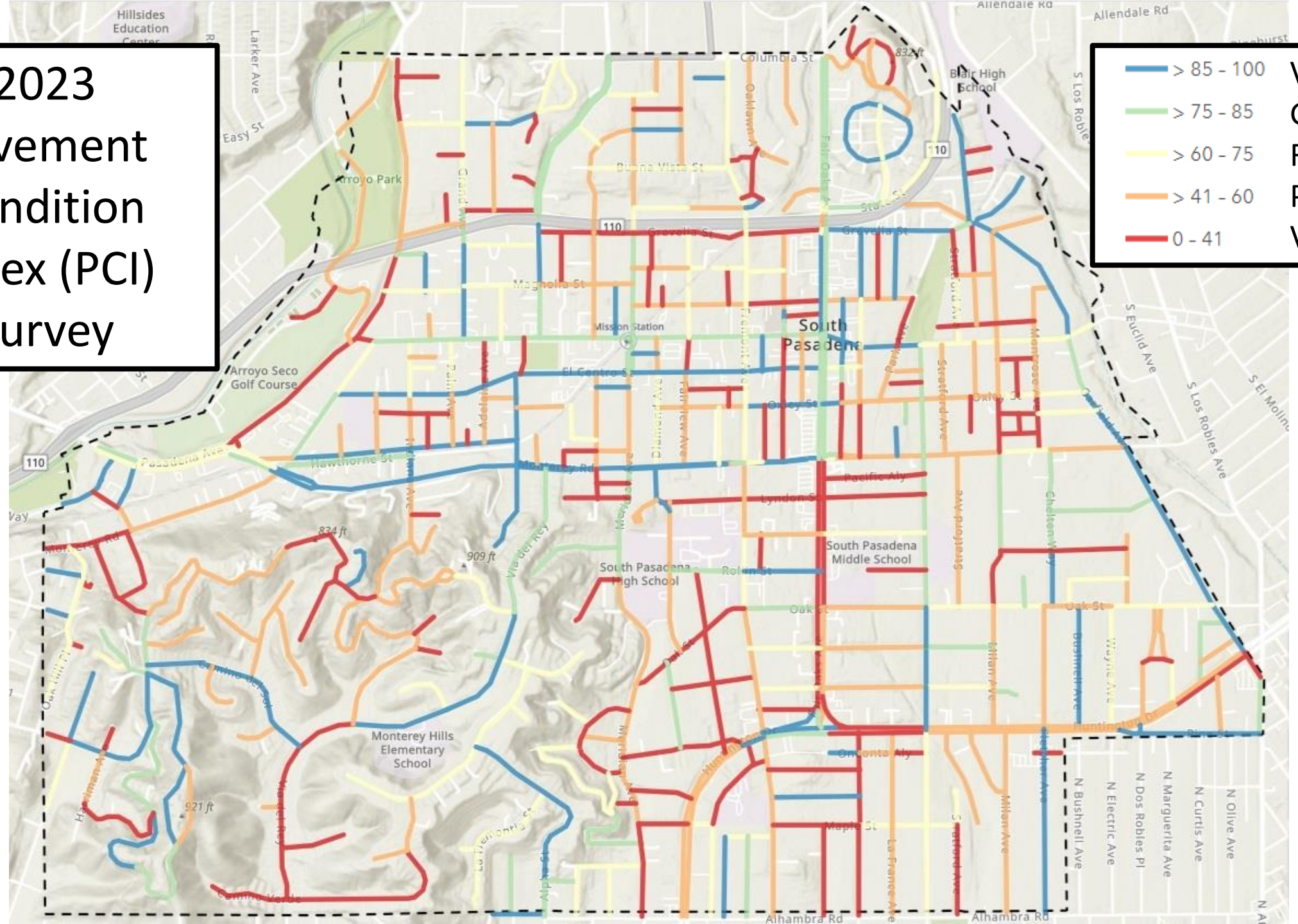
# Pavement Management Program

## 2023 Pavement Condition Index

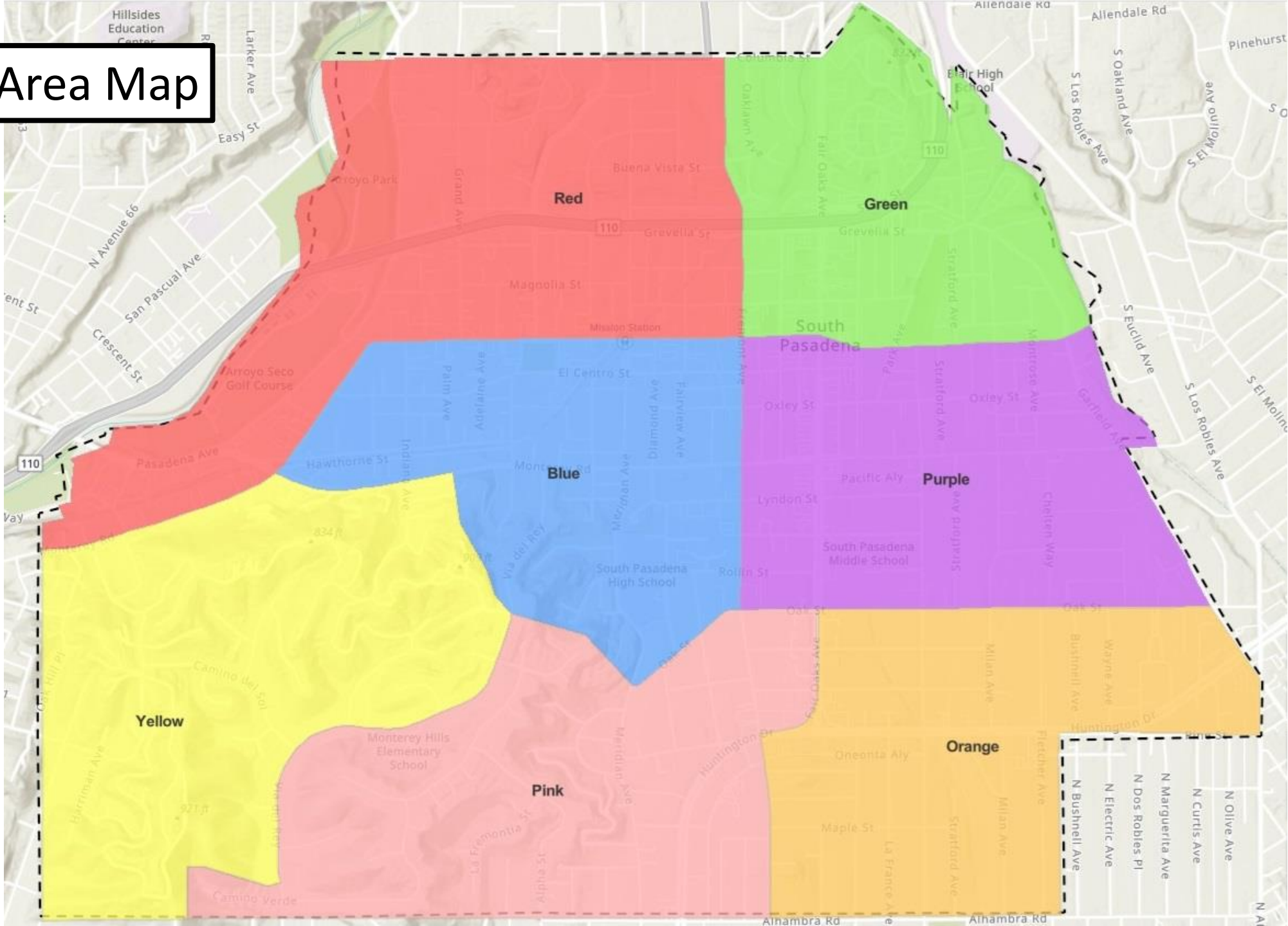
- Arterial / Collector PCI      68.7 (about the same)
- Local network PCI            58.9 (2.4 decrease)
- Average PCI                    62.0 (1.8 decrease)



# 2023 Pavement Condition Index (PCI) Survey



# Zone Area Map



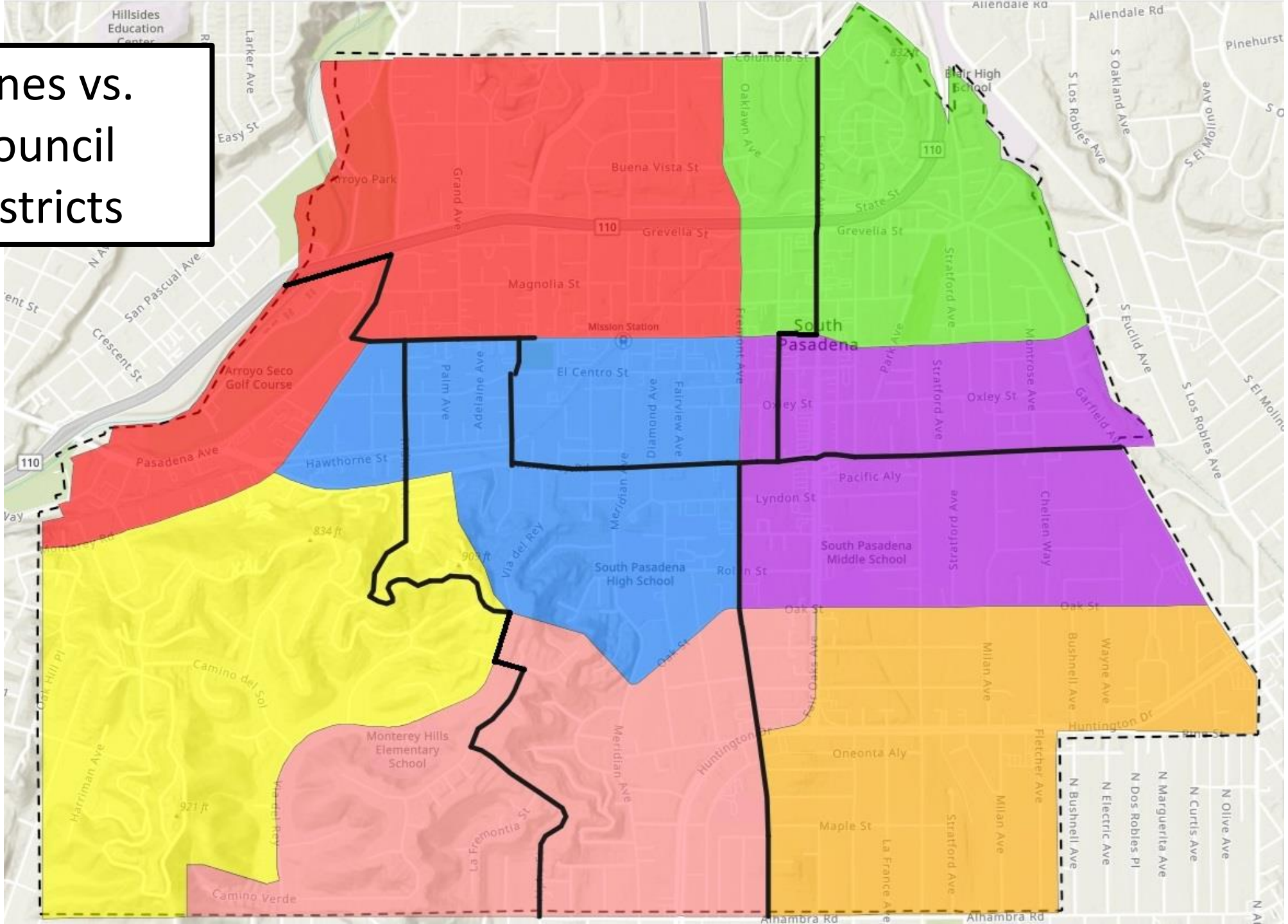


# Pavement Management Program

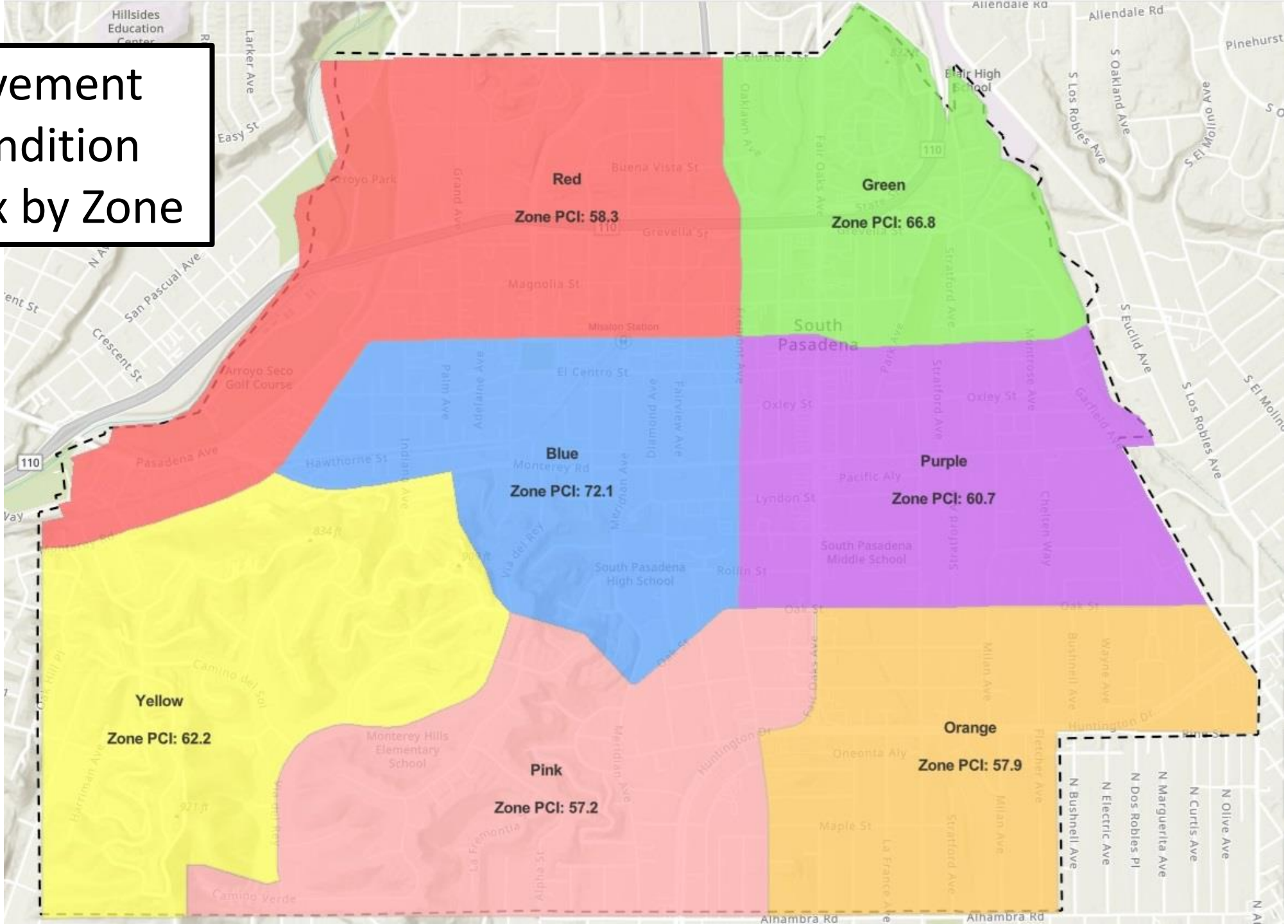
## Zone Development

- Boundaries follow Arterials / Corridors
- Street area is roughly equal
- Division promotes project concentration
- Encapsulates sub-systems for utilities

# Zones vs. Council Districts



# Pavement Condition Index by Zone





		2024 Pavement Condition Index (PCI)									
		Length (mi)		(% of Zone)	(% of Total)	Surface Area (sq. ft.)		(% of Zone)	(% of Total)	PCI	
Orange	Arterials / Collectors	10.3	(15.0%)	4.8	(46.2%) / (6.9%)	1,985,295	(16.9%)	1,034,512	(52.1%) / (8.8%)	57.9	61.1
	Locals			5.2	(50.5%) / (7.6%)			923,963	(46.5%) / (7.8%)		54.5
	Alleys			0.3	(3.3%) / (0.5%)			26,820	(1.4%) / (0.2%)		50.4
Purple	Arterials / Collectors	10.5	(15.4%)	4.3	(40.3%) / (6.2%)	1,785,640	(15.2%)	818,603	(45.8%) / (7.0%)	60.7	68.8
	Locals			6.0	(57.3%) / (8.8%)			946,637	(53.0%) / (8.0%)		54.4
	Alleys			0.3	(2.4%) / (0.4%)			20,400	(1.1%) / (0.2%)		30.8
Green	Arterials / Collectors	8.2	(12.0%)	2.5	(30.5%) / (3.7%)	1,358,817	(11.5%)	413,334	(30.4%) / (3.5%)	66.8	82.7
	Locals			5.2	(63.1%) / (7.6%)			903,957	(66.5%) / (7.7%)		61.0
	Alleys			0.5	(6.4%) / (0.8%)			41,526	(3.1%) / (0.4%)		32.6
Red	Arterials / Collectors	11.7	(17.1%)	5.1	(43.5%) / (7.4%)	1,966,698	(16.7%)	1,027,986	(52.3%) / (8.7%)	58.3	61.3
	Locals			6.3	(54.2%) / (9.2%)			921,247	(46.8%) / (7.8%)		54.6
	Alleys			0.3	(2.4%) / (0.4%)			17,465	(0.9%) / (0.1%)		71.4
Blue	Arterials / Collectors	10.7	(15.6%)	5.3	(49.5%) / (7.7%)	1,919,254	(16.3%)	1,177,668	(61.4%) / (10.0%)	72.1	80.8
	Locals			4.7	(43.6%) / (6.8%)			685,211	(35.7%) / (5.8%)		57.9
	Alleys			0.7	(6.9%) / (1.1%)			56,375	(2.9%) / (0.5%)		61.1
Yellow	Arterials / Collectors	8.1	(11.9%)	2.0	(24.5%) / (2.9%)	1,143,976	(9.7%)	334,959	(29.3%) / (2.8%)	62.2	71.2
	Locals			6.1	(75.5%) / (9.0%)			809,017	(70.7%) / (6.9%)		58.5
	Alleys			-	(0.0%) / (0.0%)			-	(0.0%) / (0.0%)		-
Pink	Arterials / Collectors	8.9	(13.0%)	3.2	(35.6%) / (4.6%)	1,612,607	(13.7%)	672,095	(41.7%) / (5.7%)	57.2	60.1
	Locals			5.6	(63.1%) / (8.2%)			928,492	(57.6%) / (7.9%)		55.6
	Alleys			0.1	(1.3%) / (0.2%)			12,020	(0.7%) / (0.1%)		17.0
Total / Avg	Arterials / Collectors	68.6	(100.0%)	27.1	(39.5%)	11,772,287	(100.0%)	5,479,157	(46.5%)	62.0	
	Locals			39.2	(57.2%)			6,118,524	(52.0%)		
	Alleys			2.3	(3.3%)			174,606	(1.5%)		

		2024 Pavement Condition Index (PCI) by Square Footage									
		'Very Poor' [0-40]		(18.9%)	(% of Zone)	/(% of Total)	'Poor' [41-59]		(29.6%)	(% of Zone)	/(% of Total)
Orange	Arterials / Collectors	311,411	(14.0%)	95,768	(30.8%)	/(4.3%)	972,703	(27.9%)	503,401	(51.8%)	/(14.4%)
	Locals			205,578	(66.0%)	/(9.2%)			457,302	(47.0%)	/(13.1%)
	Alleys			10,065	(3.2%)	/(0.5%)			12,000	(1.2%)	/(0.3%)
Purple	Arterials / Collectors	440,933	(19.8%)	143,815	(32.6%)	/(6.5%)	436,506	(12.5%)	111,560	(25.6%)	/(3.2%)
	Locals			280,543	(63.6%)	/(12.6%)			324,946	(74.4%)	/(9.3%)
	Alleys			16,575	(3.8%)	/(0.7%)			-	(0.0%)	/(0.0%)
Green	Arterials / Collectors	190,223	(8.5%)	-	(0.0%)	/(0.0%)	332,153	(9.5%)	2,420	(0.7%)	/(0.1%)
	Locals			156,187	(82.1%)	/(7.0%)			322,243	(97.0%)	/(9.2%)
	Alleys			34,036	(17.9%)	/(1.5%)			7,490	(2.3%)	/(0.2%)
Red	Arterials / Collectors	387,610	(17.4%)	198,717	(51.3%)	/(8.9%)	565,614	(16.2%)	225,215	(39.8%)	/(6.5%)
	Locals			183,803	(47.4%)	/(8.2%)			340,399	(60.2%)	/(9.8%)
	Alleys			5,090	(1.3%)	/(0.2%)			-	(0.0%)	/(0.0%)
Blue	Arterials / Collectors	207,343	(9.3%)	68,199	(32.9%)	/(3.1%)	419,164	(12.0%)	114,511	(27.3%)	/(3.3%)
	Locals			124,414	(60.0%)	/(5.6%)			290,358	(69.3%)	/(8.3%)
	Alleys			14,730	(7.1%)	/(0.7%)			14,295	(3.4%)	/(0.4%)
Yellow	Arterials / Collectors	213,985	(9.6%)	77,971	(36.4%)	/(3.5%)	414,573	(11.9%)	32,660	(7.9%)	/(0.9%)
	Locals			136,014	(63.6%)	/(6.1%)			381,913	(92.1%)	/(10.9%)
	Alleys			-	(0.0%)	/(0.0%)			-	(0.0%)	/(0.0%)
Pink	Arterials / Collectors	477,149	(21.4%)	127,231	(26.7%)	/(5.7%)	348,748	(10.0%)	294,234	(84.4%)	/(8.4%)
	Locals			337,898	(70.8%)	/(15.2%)			54,514	(15.6%)	/(1.6%)
	Alleys			12,020	(2.5%)	/(0.5%)			-	(0.0%)	/(0.0%)
Total / Avg	Arterials / Collectors	2,228,654	(100.0%)	711,701	(31.9%)		3,489,461	(100.0%)	1,284,001	(36.8%)	
	Locals			1,424,437	(63.9%)				2,171,675	(62.2%)	
	Alleys			92,516	(4.2%)				33,785	(1.0%)	

		<b>2024 Pavement Condition Index (PCI)</b>		
		<b>'Fair' [60-74]</b>	<b>(18.1%)</b>	<b>(% of Zone) / (% of Total)</b>
Orange	Arterials / Collectors	232,246	(10.9%)	142,143 (61.2%) / (6.7%)
	Locals			90,103 (38.8%) / (4.2%)
	Alleys			- (0.0%) / (0.0%)
Purple	Arterials / Collectors	298,872	(14.0%)	180,455 (60.4%) / (8.5%)
	Locals			118,417 (39.6%) / (5.6%)
	Alleys			- (0.0%) / (0.0%)
Green	Arterials / Collectors	284,920	(13.4%)	74,075 (26.0%) / (3.5%)
	Locals			210,845 (74.0%) / (9.9%)
	Alleys			- (0.0%) / (0.0%)
Red	Arterials / Collectors	<b>579,028</b>	<b>(27.2%)</b>	281,343 (48.6%) / (13.2%)
	Locals			297,685 (51.4%) / (14.0%)
	Alleys			- (0.0%) / (0.0%)
Blue	Arterials / Collectors	208,449	(9.8%)	102,953 (49.4%) / (4.8%)
	Locals			105,496 (50.6%) / (5.0%)
	Alleys			- (0.0%) / (0.0%)
Yellow	Arterials / Collectors	123,254	(5.8%)	25,388 (20.6%) / (1.2%)
	Locals			97,866 (79.4%) / (4.6%)
	Alleys			- (0.0%) / (0.0%)
Pink	Arterials / Collectors	<b>401,740</b>	<b>(18.9%)</b>	64,440 (16.0%) / (3.0%)
	Locals			337,300 (84.0%) / (15.8%)
	Alleys			- (0.0%) / (0.0%)
<b>Total / Avg</b>	Arterials / Collectors	2,128,509	(100.0%)	870,797 (40.9%)
	Locals			1,257,712 (59.1%)
	Alleys			- (0.0%)

		<b>2024 Pavement Condition Index (PCI) by Square Footage</b>							
		<b>'Good' [75-85] (13.9%)</b>		<b>(% of Zone)</b>	<b>/ (% of Total)</b>	<b>'Very Good' [86-100] (18.9%)</b>		<b>(% of Zone)</b>	<b>/ (% of Total)</b>
Orange	Arterials / Collectors	169,757	(10.4%)	69,327	(40.8%) / (4.2%)	299,178	(13.5%)	223,873	(74.8%) / (10.1%)
	Locals			100,430	(59.2%) / (6.1%)			70,550	(23.6%) / (3.2%)
	Alleys			-	(0.0%) / (0.0%)			4,755	(1.6%) / (0.2%)
Purple	Arterials / Collectors	347,304	(21.2%)	210,458	(60.6%) / (12.8%)	262,025	(11.8%)	172,315	(65.8%) / (7.8%)
	Locals			133,021	(38.3%) / (8.1%)			89,710	(34.2%) / (4.0%)
	Alleys			3,825	(1.1%) / (0.2%)			-	(0.0%) / (0.0%)
Green	Arterials / Collectors	180,163	(11.0%)	144,688	(80.3%) / (8.8%)	367,078	(16.5%)	192,151	(52.3%) / (8.7%)
	Locals			35,475	(19.7%) / (2.2%)			174,927	(47.7%) / (7.9%)
	Alleys			-	(0.0%) / (0.0%)			-	(0.0%) / (0.0%)
Red	Arterials / Collectors	211,743	(12.9%)	204,968	(96.8%) / (12.5%)	181,369	(8.2%)	76,409	(42.1%) / (3.4%)
	Locals			6,775	(3.2%) / (0.4%)			92,585	(51.0%) / (4.2%)
	Alleys			-	(0.0%) / (0.0%)			12,375	(6.8%) / (0.6%)
Blue	Arterials / Collectors	426,577	(26.0%)	356,087	(83.5%) / (21.7%)	657,721	(29.6%)	535,918	(81.5%) / (24.1%)
	Locals			51,975	(12.2%) / (3.2%)			112,968	(17.2%) / (5.1%)
	Alleys			18,515	(4.3%) / (1.1%)			8,835	(1.3%) / (0.4%)
Yellow	Arterials / Collectors	110,762	(6.8%)	20,010	(18.1%) / (1.2%)	260,356	(11.7%)	178,930	(68.7%) / (8.1%)
	Locals			90,752	(81.9%) / (5.5%)			81,426	(31.3%) / (3.7%)
	Alleys			-	(0.0%) / (0.0%)			-	(0.0%) / (0.0%)
Pink	Arterials / Collectors	192,002	(11.7%)	38,400	(20.0%) / (2.3%)	192,968	(8.7%)	147,790	(76.6%) / (6.7%)
	Locals			153,602	(80.0%) / (9.4%)			45,178	(23.4%) / (2.0%)
	Alleys			-	(0.0%) / (0.0%)			-	(0.0%) / (0.0%)
Total / Avg	Arterials / Collectors	1,638,308	(100.0%)	1,043,938	(63.7%)	2,220,695	(100.0%)	1,527,386	(68.8%)
	Locals			572,030	(34.9%)			667,344	(30.1%)
	Alleys			22,340	(1.4%)			25,965	(1.2%)

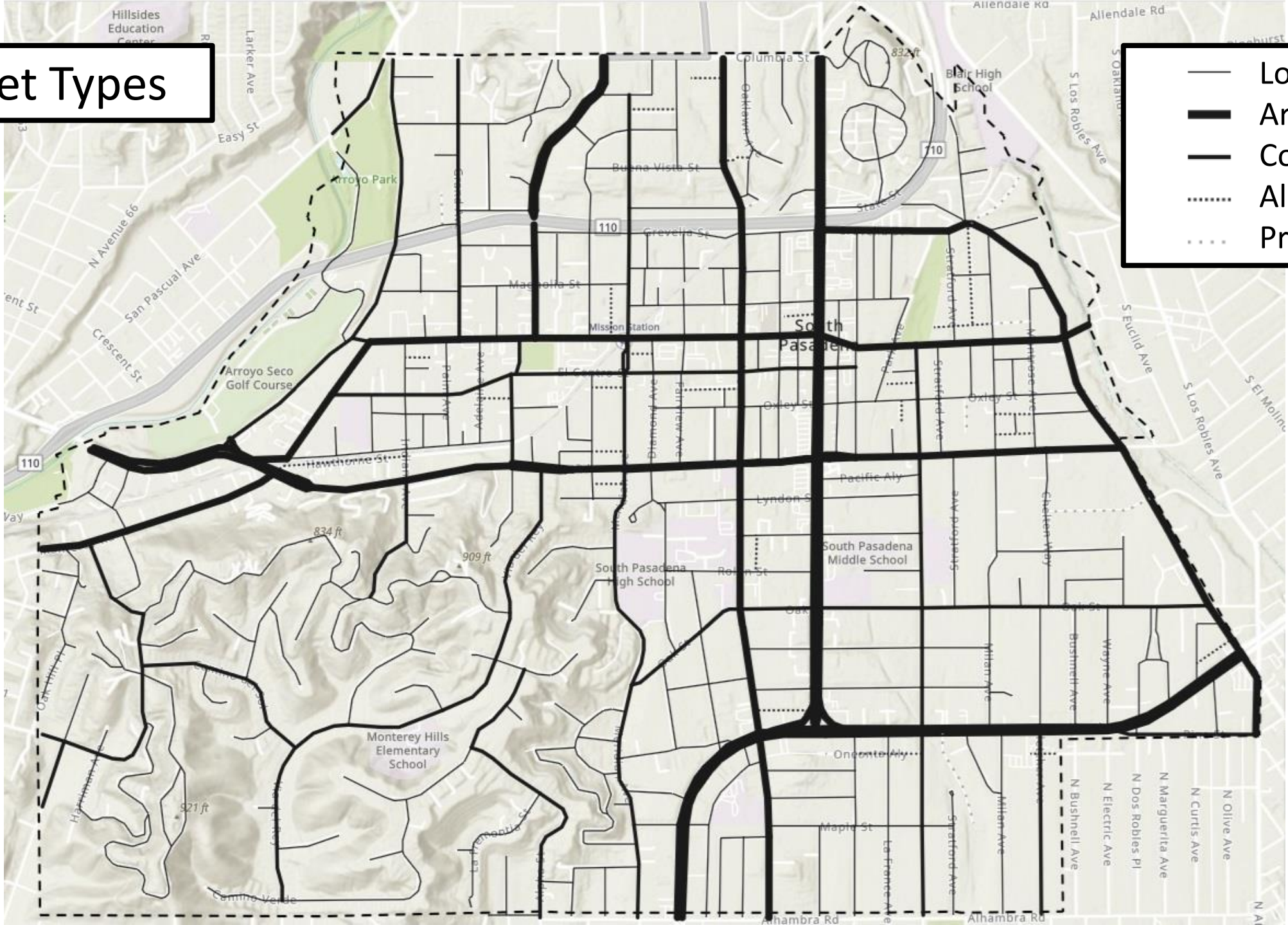
# Prioritization

## Other Factor Review



# Street Types

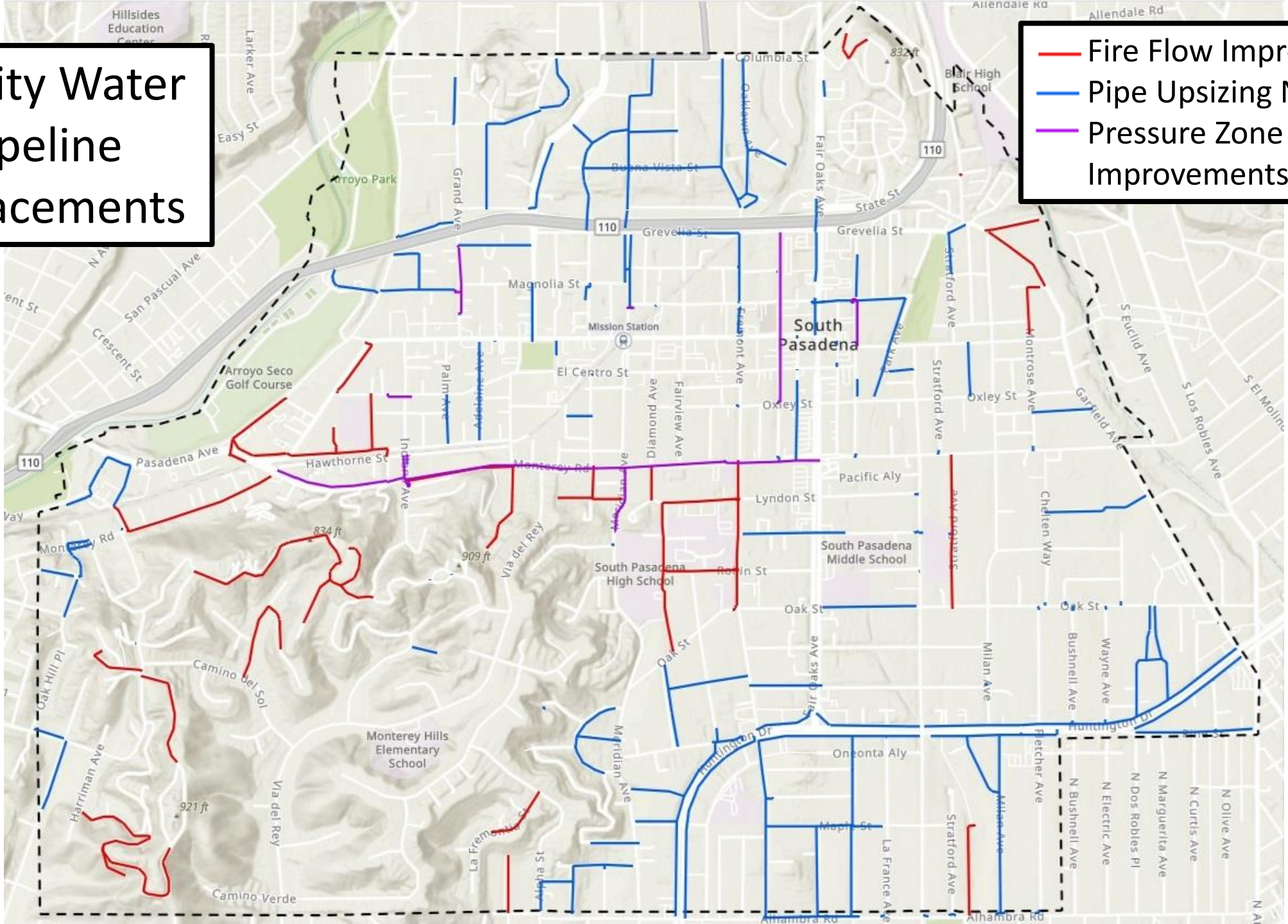
- Local
- Arterial
- Collector
- ..... Alley
- ..... Private





# Priority Water Pipeline Replacements

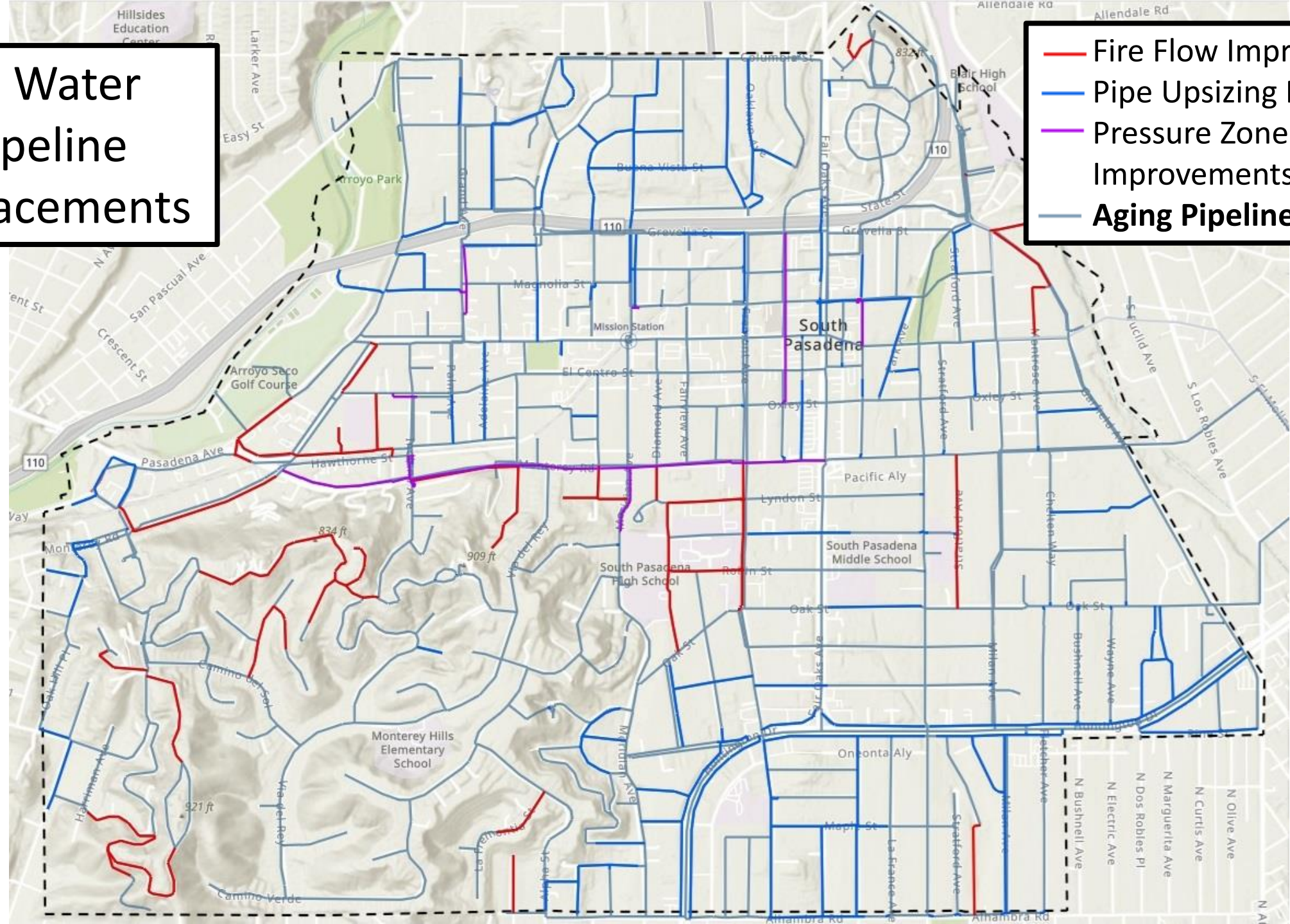
- Fire Flow Improvements
- Pipe Upsizing Needed
- Pressure Zone Improvements





# All Water Pipeline Replacements

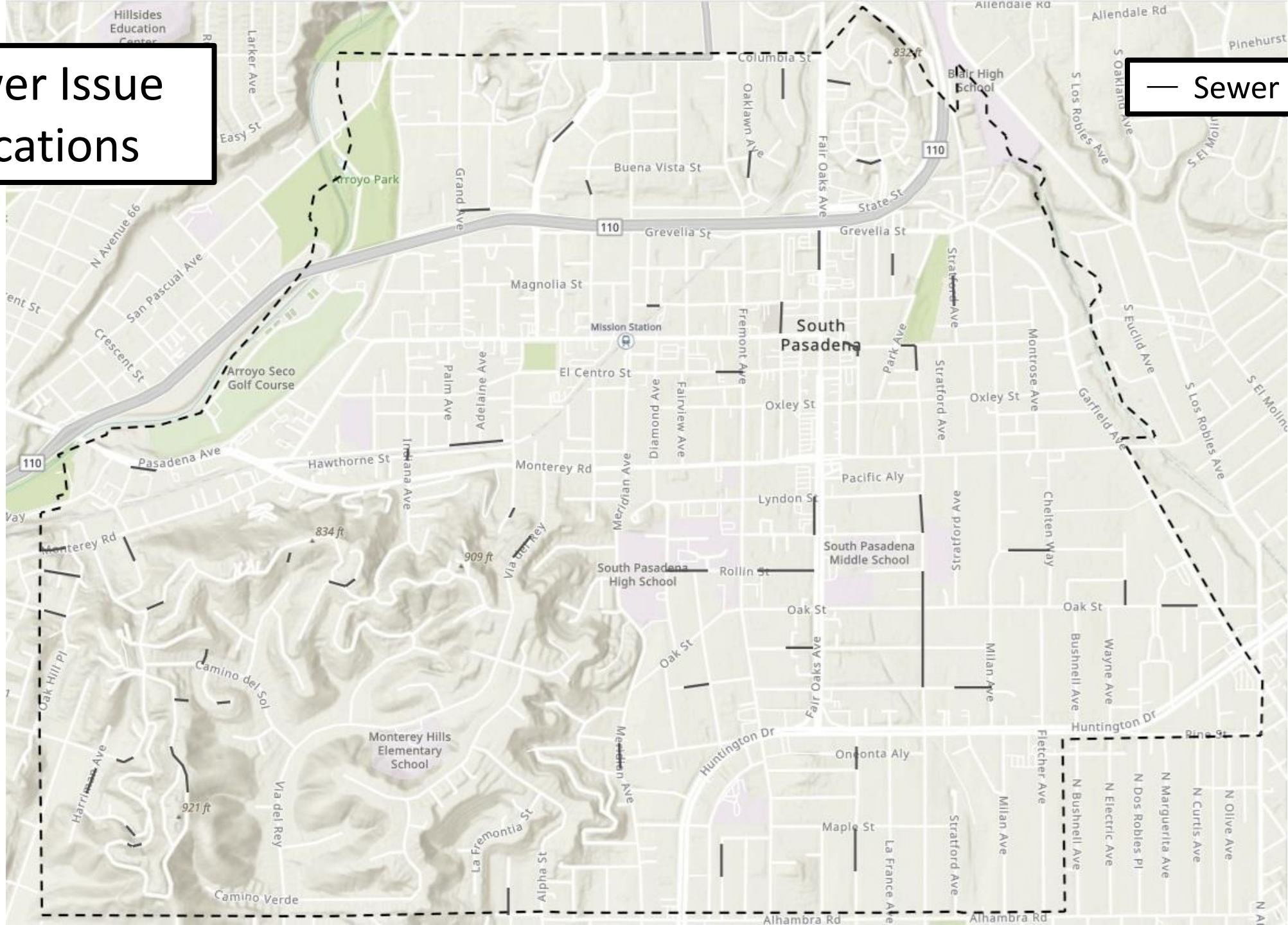
- Fire Flow Improvements
- Pipe Upsizing Needed
- Pressure Zone Improvements
- Aging Pipelines





# Sewer Issue Locations

— Sewer Issues





# Asphalt vs. Concrete Paving

- Asphalt
- Concrete



# Results

## Use of Survey Data & Subsequent Analysis

- Prioritize preventative maintenance for locations where pavement has not yet failed
- Determine appropriate action per street segment
- Calculate high level costs for planning purposes

# Results

## Preventative Maintenance

- Crack sealing / asphalt patching (purchased vehicle)
- Seals & bonds to protect asphalt (4-7 years)

## Reconstruction

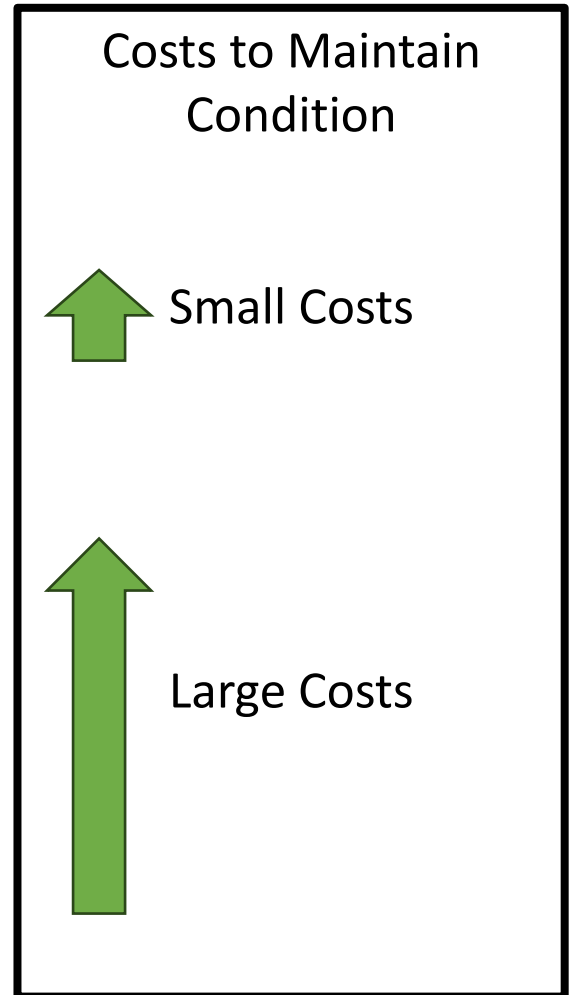
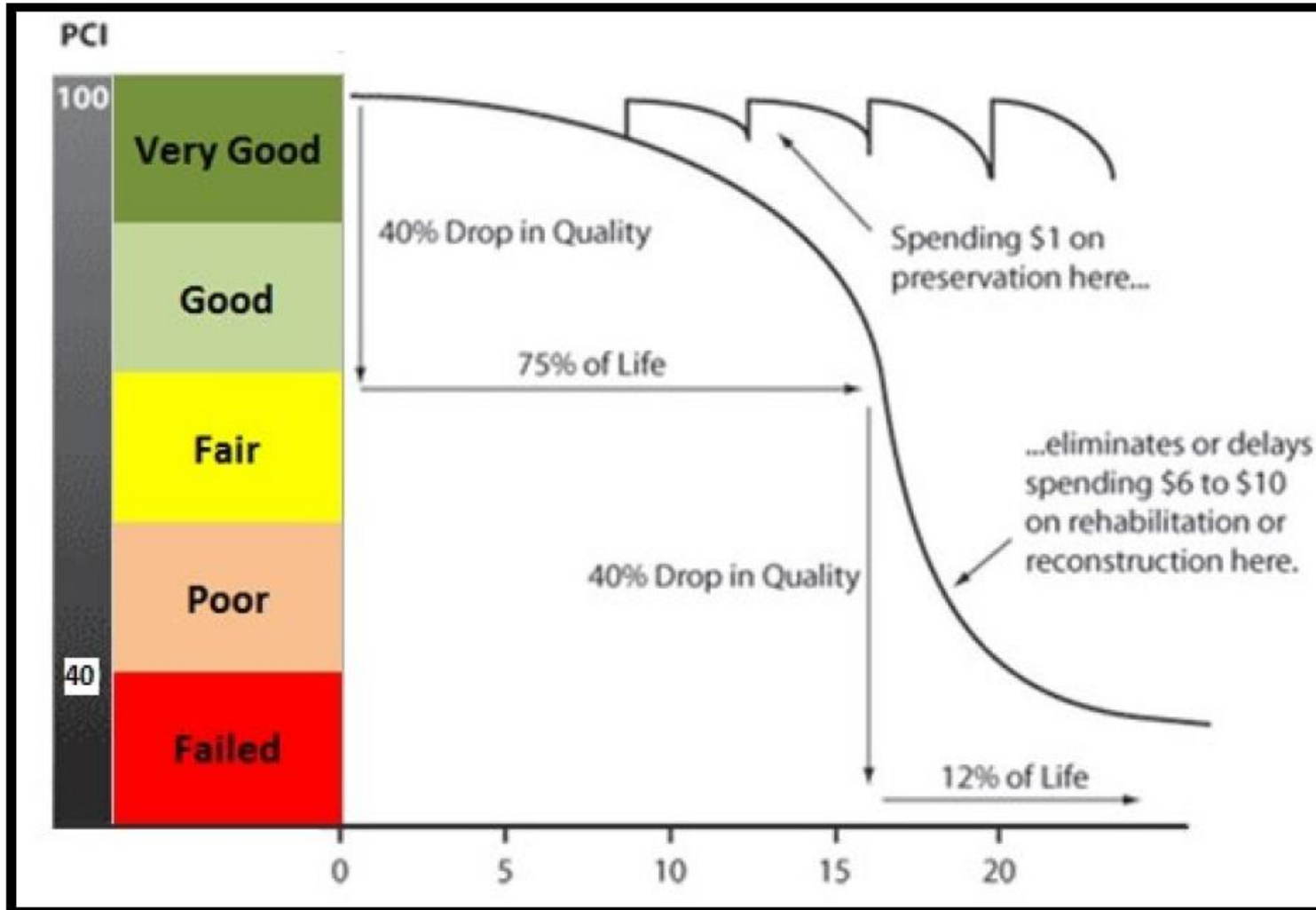
- Grind & Overlay (8-12 years)
- Replacement Reconstruction (15 -25 years)

# Planning Costs

Type of Work	Method	2023 Benchmarked Unit Costs
Treatment / Preventative Maintenance	Crack Sealing & Patching	Staff / Contractor
	Type II Slurry	\$ 0.65 / sq. ft.
	Type II Slurry for Arterials	\$ 0.85 / sq. ft.
	Cape Seal	\$ 1.30 / sq. ft.
Reconstruction	Grind & Overlay	\$ 3.25 / sq. ft.
	Grind & Overlay (Rubberized)	\$ 5.30 / sq. ft.
	Asphalt Reconstruction	\$ 9.50 / sq. ft.
	Asphalt Reconstruction For Arterials	\$ 11.20 / sq. ft.
	Concrete Reconstruction	\$ 22.50 / sq. ft.
No Action	No Action Recommended	\$ 0.00 / sq. ft.

# Pavement Management Program

## Decay / Deterioration Curve





# Street Prioritization Factors

## Balancing

- Community Quality of Life / Expectations
- Future Deterioration / Repair Cost Escalation
- Future Cost Increase vs. Project Deferral
- Arterial vs. Local & Alley Consideration
- Safety / Claims
- Utility Infrastructure Needs (Water, Sewer, etc.)
- Other Transportation Improvements
- Reduction of Waste

# Street Project Review

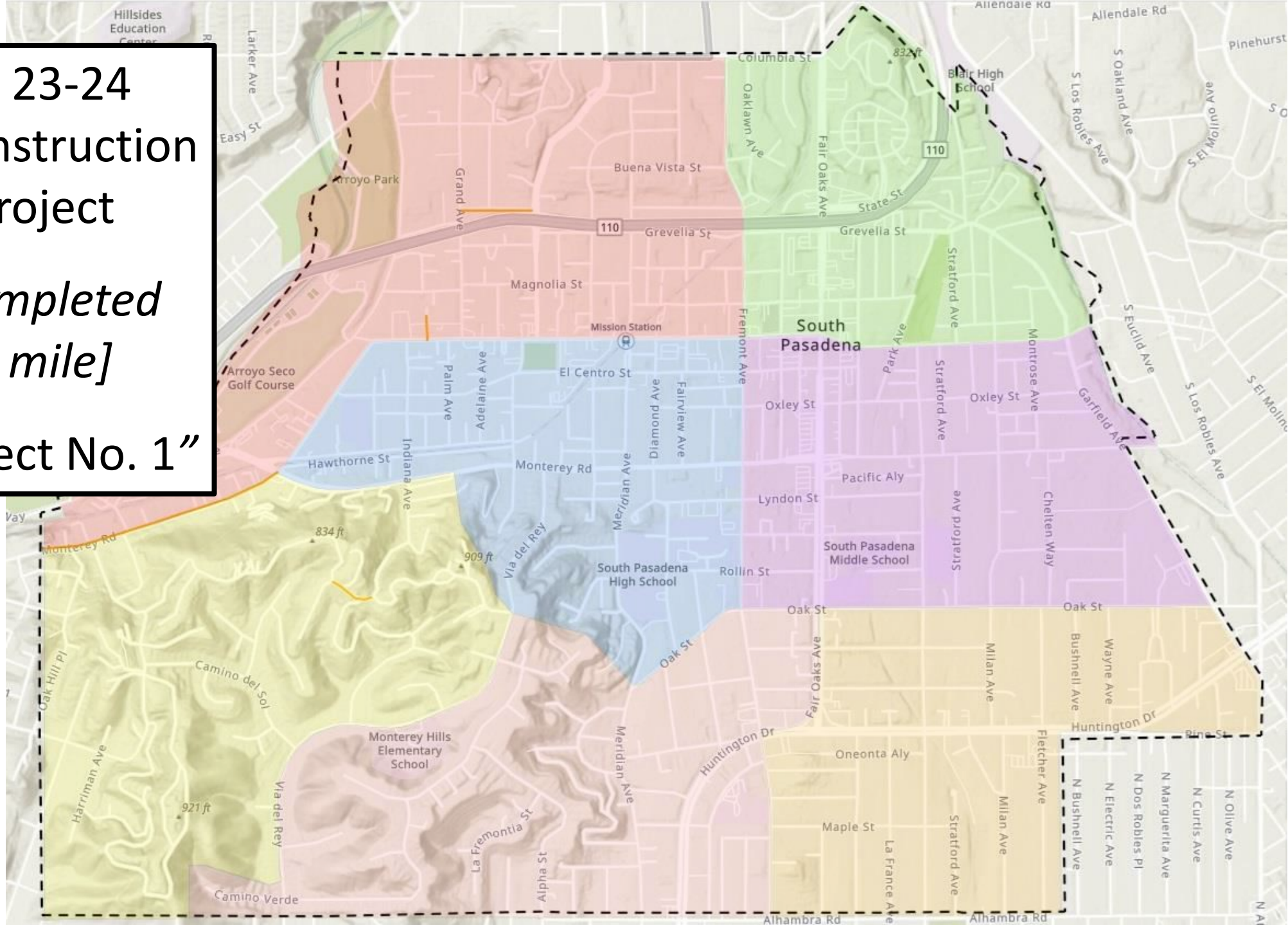
## Current Reconstruction Projects



# FY 23-24 Reconstruction Project

*[Completed  
1 mile]*

“Project No. 1”



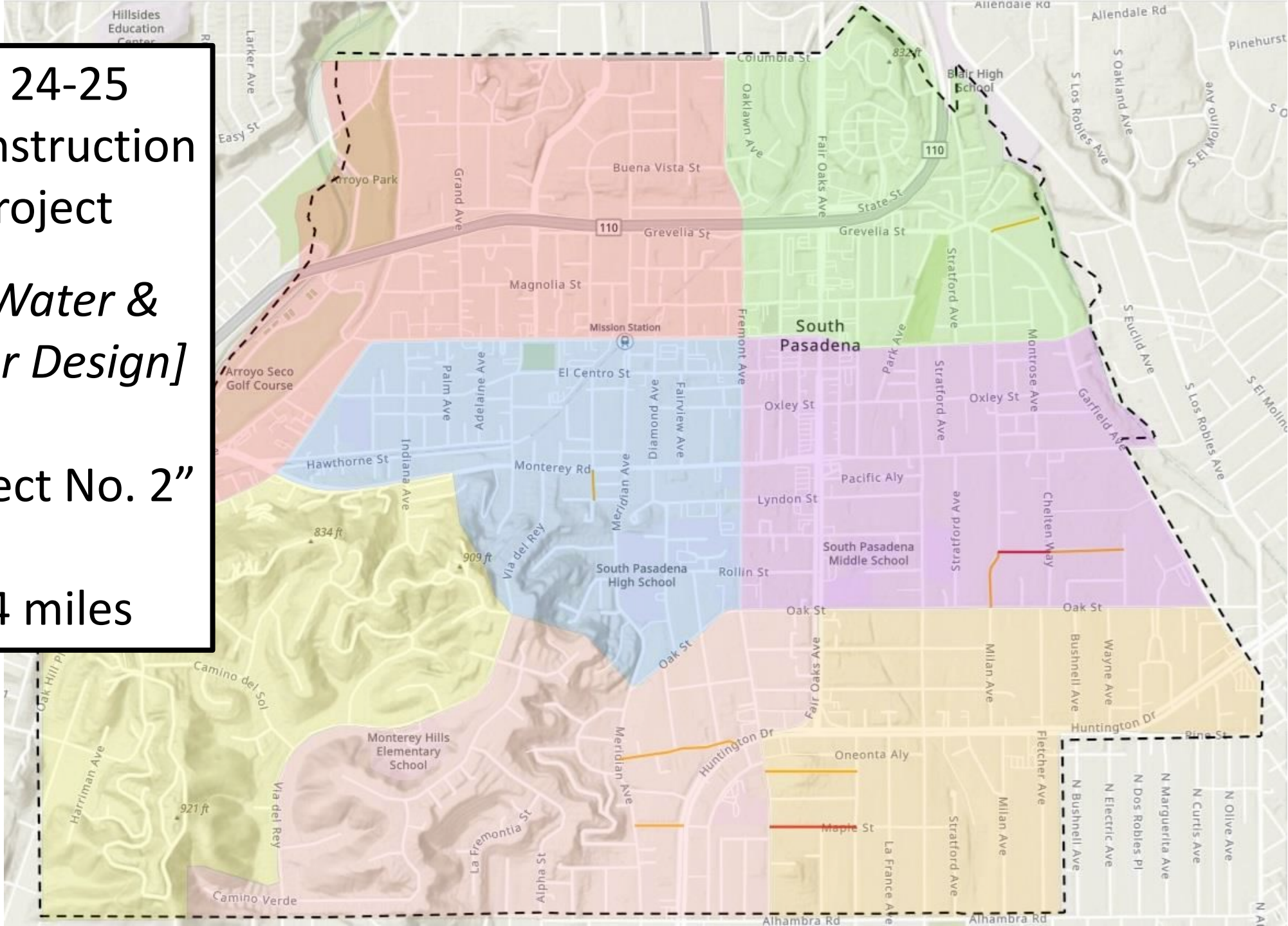


# FY 24-25 Reconstruction Project

*[In Water &  
Sewer Design]*

“Project No. 2”

1.4 miles





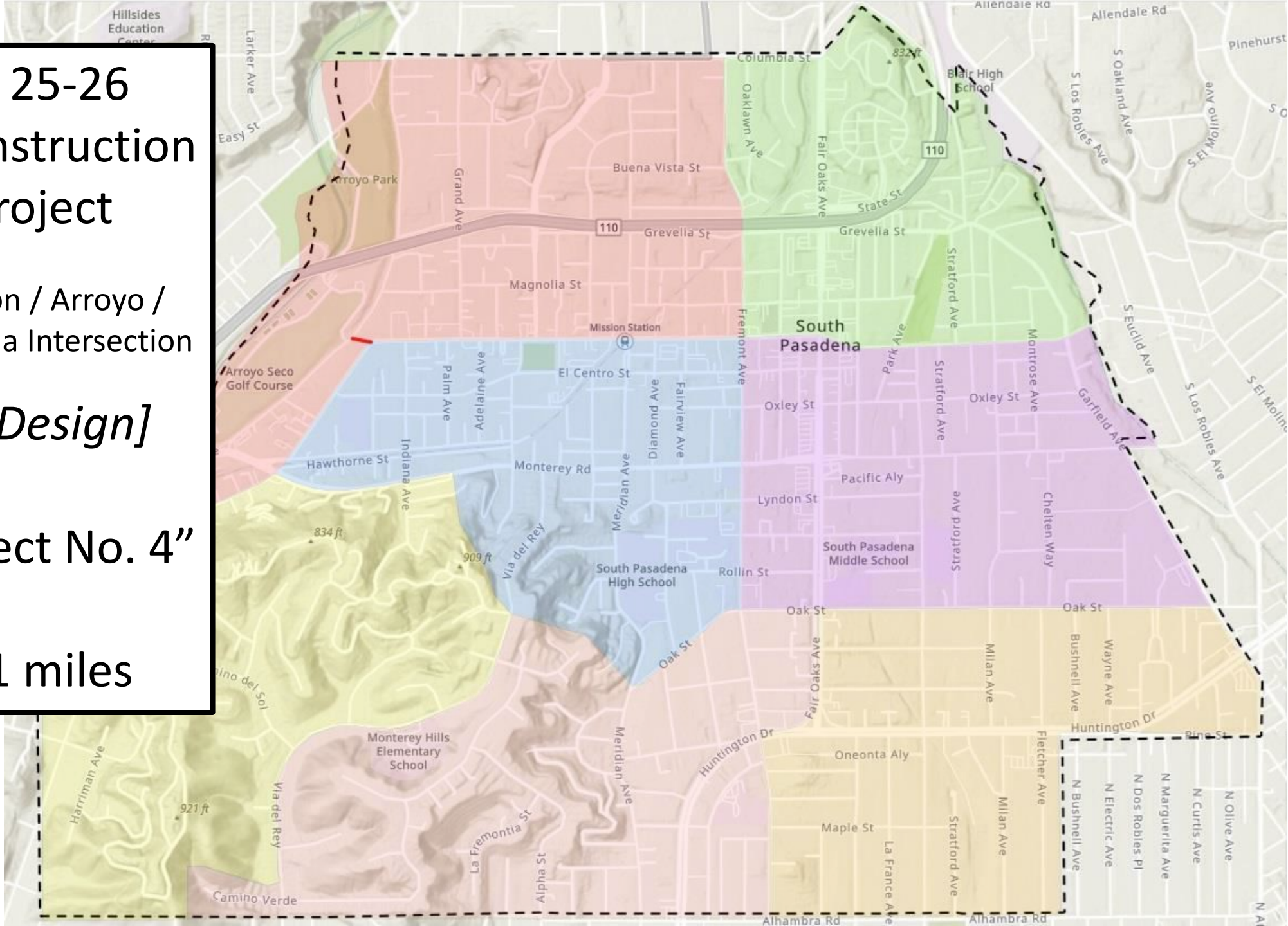
# FY 25-26 Reconstruction Project

Mission / Arroyo /  
Pasadena Intersection

*[In Design]*

“Project No. 4”

0.1 miles

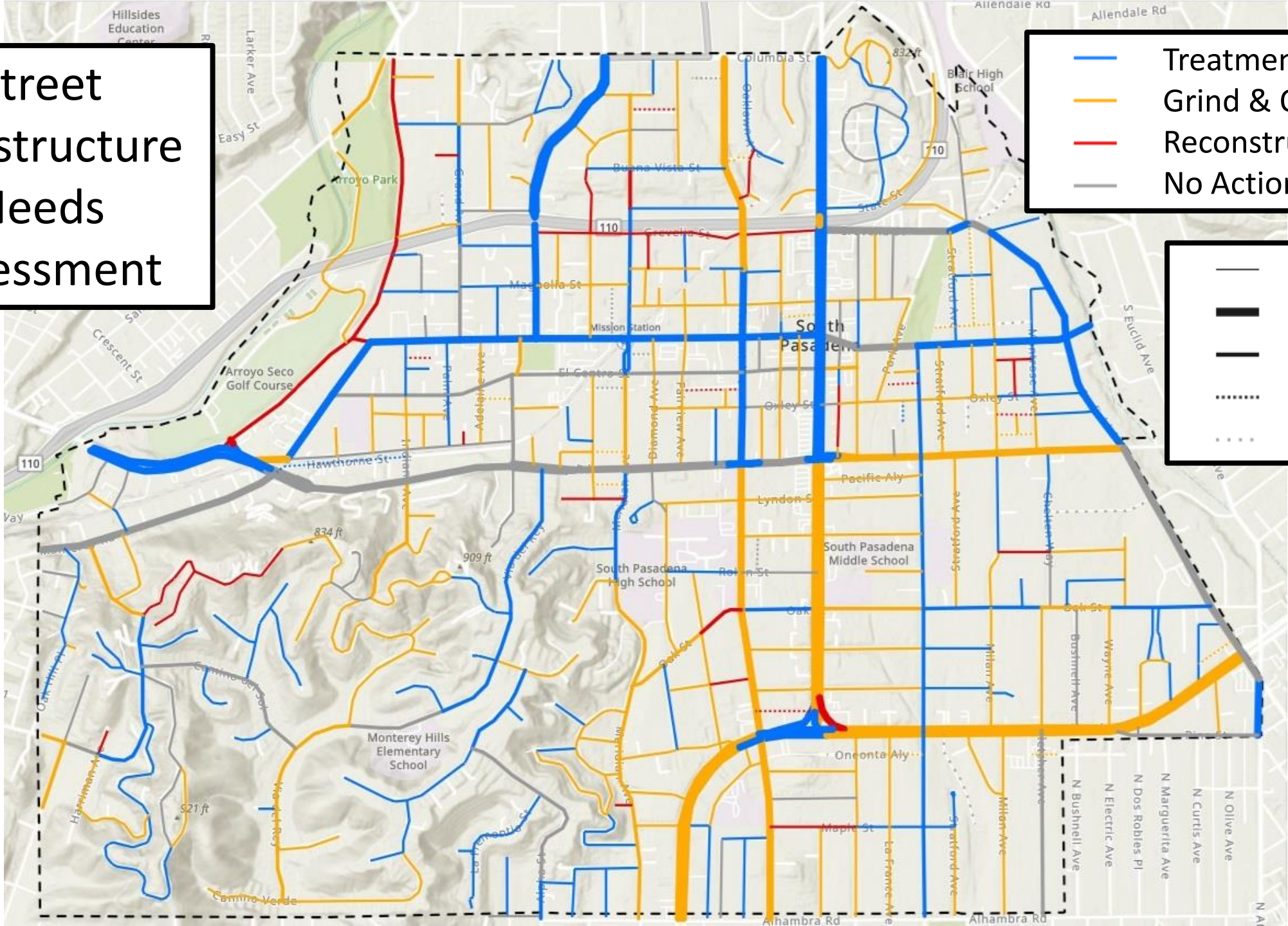




# Street Infrastructure Needs Assessment

- Treatment
- Grind & Overlay
- Reconstruction
- No Action Needed

- Local
- Arterial
- Collector
- Alley
- Private





		Street Infrastructure Needs		(% of Zone)	/ (% of Total)
Orange	Arterials / Collectors	\$ 7,711,370 (18.0%)	\$ 4,508,249	(58.5%)	/ (10.5%)
	Locals		\$ 3,109,896	(40.3%)	/ (7.3%)
	Alleys		\$ 93,226	(1.2%)	/ (0.2%)
Purple	Arterials / Collectors	\$ 5,925,790 (13.9%)	\$ 2,441,494	(41.2%)	/ (5.7%)
	Locals		\$ 3,328,718	(56.2%)	/ (7.8%)
	Alleys		\$ 155,578	(2.6%)	/ (0.4%)
Green	Arterials / Collectors	\$ 3,375,885 (7.9%)	\$ 637,566	(18.9%)	/ (1.5%)
	Locals		\$ 2,589,170	(76.7%)	/ (6.1%)
	Alleys		\$ -	(0.0%)	/ (0.0%)
Red	Arterials / Collectors	\$ 11,242,406 (26.3%)	\$ 7,440,912	(66.2%)	/ (17.4%)
	Locals		\$ 3,738,633	(33.3%)	/ (8.7%)
	Alleys		\$ 62,862	(0.6%)	/ (0.1%)
Blue	Arterials / Collectors	\$ 4,452,836 (10.4%)	\$ 2,025,333	(45.5%)	/ (4.7%)
	Locals		\$ 2,123,623	(47.7%)	/ (5.0%)
	Alleys		\$ 303,880	(6.8%)	/ (0.7%)
Yellow	Arterials / Collectors	\$ 4,183,027 (9.8%)	\$ 1,001,962	(24.0%)	/ (2.3%)
	Locals		\$ 3,181,066	(76.0%)	/ (7.4%)
	Alleys		-	(0.0%)	/ (0.0%)
Pink	Arterials / Collectors	\$ 5,860,850 (13.7%)	\$ 3,251,118	(55.5%)	/ (7.6%)
	Locals		\$ 2,461,285	(42.0%)	/ (5.8%)
	Alleys		\$ 148,447	(2.5%)	/ (0.3%)
<b>Total / Avg</b>	Arterials / Collectors	\$ 42,752,165 (100.0%)	\$ 21,306,633	(49.8%)	
	Locals		\$ 20,532,391	(48.0%)	
	Alleys		\$ 763,993	(1.8%)	

		Surface Area (sq. ft.)		Baseline Maintenance Cost (2023 dollars)	
Orange	Arterials / Collectors	1,985,295 (16.9%)	1,034,512	\$ 672,433	\$ 1,290,442
	Locals		923,963	\$ 600,576	
	Alleys		26,820	\$ 17,433	
Purple	Arterials / Collectors	\$ 1,785,640 (15.2%)	\$ 818,603	\$ 532,092	\$ 1,160,666
	Locals		\$ 946,637	\$ 615,314	
	Alleys		\$ 20,400	\$ 13,260	
Green	Arterials / Collectors	\$ 1,358,817 (11.5%)	\$ 413,334	\$ 268,667	\$ 883,231
	Locals		\$ 903,957	\$ 587,572	
	Alleys		\$ 41,526	\$ 26,992	
Red	Arterials / Collectors	\$ 1,966,698 (16.7%)	\$ 1,027,986	\$ 668,191	\$ 1,278,354
	Locals		\$ 921,247	\$ 598,811	
	Alleys		\$ 17,465	\$ 11,352	
Blue	Arterials / Collectors	\$ 1,919,254 (16.3%)	\$ 1,177,668	\$ 765,484	\$ 1,247,515
	Locals		\$ 685,211	\$ 445,387	
	Alleys		\$ 56,375	\$ 36,644	
Yellow	Arterials / Collectors	\$ 1,143,976 (9.7%)	\$ 334,959	\$ 217,723	\$ 743,584
	Locals		\$ 809,017	\$ 525,861	
	Alleys		-	\$ -	
Pink	Arterials / Collectors	\$ 1,612,607 (13.7%)	\$ 672,095	\$ 436,862	\$ 1,048,195
	Locals		\$ 928,492	\$ 603,520	
	Alleys		\$ 12,020	\$ 7,813	
<b>Total / Avg</b>	Arterials / Collectors	\$ 11,772,287 (100.0%)	\$ 5,479,157	\$ 3,561,452	Total
	Locals		\$ 6,118,524	\$ 3,977,041	\$ 7,651,987
	Alleys		\$ 174,606	\$ 113,494	Avg \$1.1M

# Street Project Review

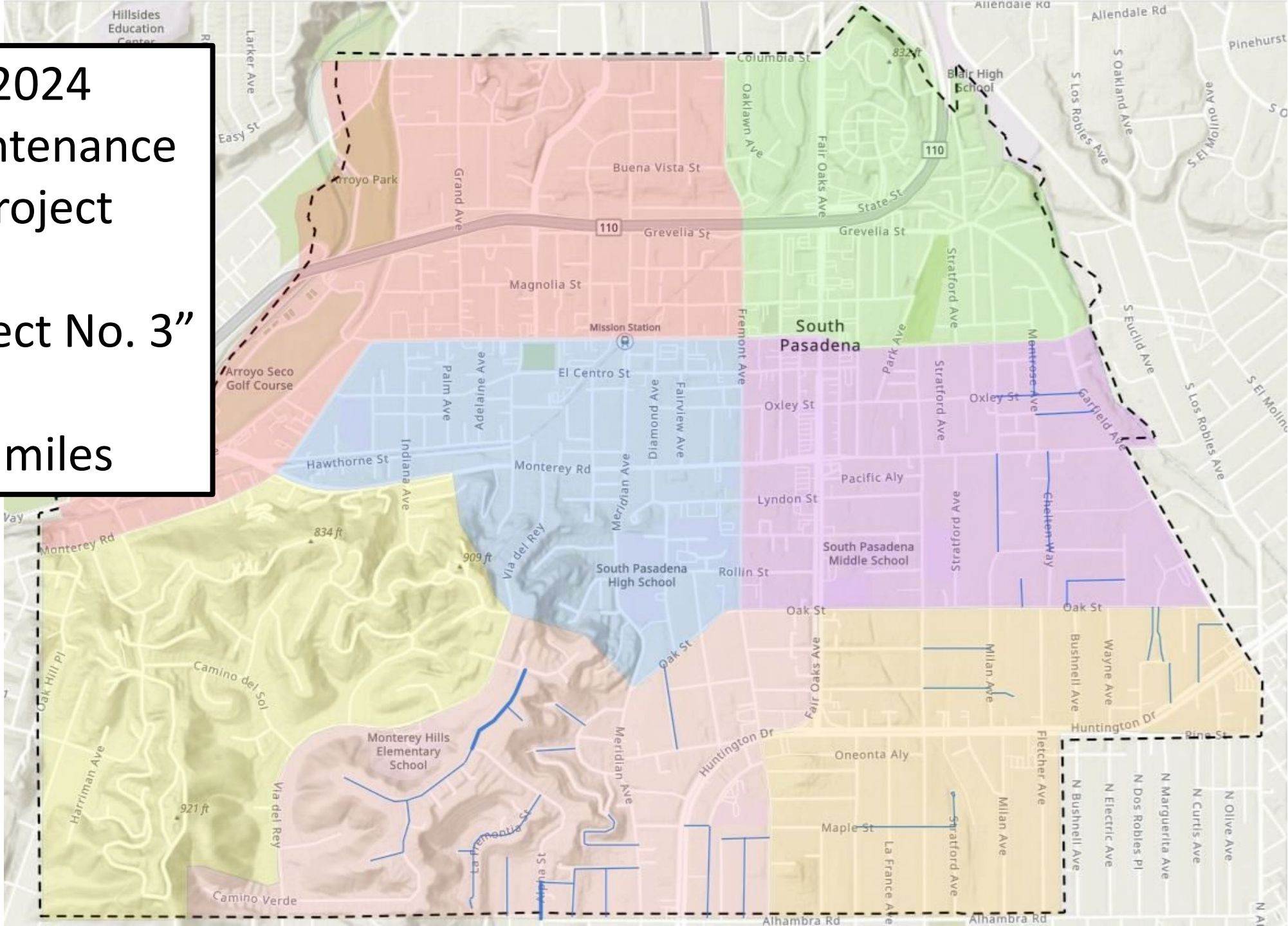
## Next Set of Maintenance Projects

# Maintenance Summary

		Treatment (33.6%)														
		Length (mi)			Surface Area (sq. ft.)			Cost (\$)								
			(% of Zone)	(% of Total)		(% of Zone)	(% of Total)		(% of Zone)	(% of Total)						
Orange	Arterials / Collectors	2.46	(11.0%)	1.38	(55.8%)	(6.1%)	493,486	(12.5%)	312,213	(63.3%)	(7.9%)	\$ 440,024	(12.3%)	\$ 285,286	(64.8%)	(8.0%)
	Locals			1.09	(44.2%)	(4.9%)			181,273	(36.7%)	(4.6%)			\$ 154,739	(35.2%)	(4.3%)
	Alleys			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)
Purple	Arterials / Collectors	3.04	(13.6%)	1.97	(64.8%)	(8.8%)	542,808	(13.7%)	370,232	(68.2%)	(9.4%)	\$ 483,641	(13.5%)	\$ 338,300	(69.9%)	(9.4%)
	Locals			1.02	(33.6%)	(4.6%)			168,751	(31.1%)	(4.3%)			\$ 142,669	(29.5%)	(4.0%)
	Alleys			0.05	(1.6%)	(0.2%)			3,825	(0.7%)	(0.1%)			\$ 2,672	(0.6%)	(0.1%)
Green	Arterials / Collectors	3.20	(14.3%)	1.66	(51.9%)	(7.4%)	579,137	(14.6%)	245,573	(42.4%)	(6.2%)	\$ 566,350	(15.8%)	\$ 224,393	(39.6%)	(6.3%)
	Locals			1.54	(48.1%)	(6.9%)			333,564	(57.6%)	(8.4%)			\$ 341,956	(60.4%)	(9.5%)
	Alleys			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)
Red	Arterials / Collectors	4.53	(20.2%)	2.67	(58.9%)	(11.9%)	775,694	(19.6%)	511,049	(65.9%)	(12.9%)	\$ 699,758	(19.5%)	\$ 466,971	(66.7%)	(13.0%)
	Locals			1.86	(41.1%)	(8.3%)			264,645	(34.1%)	(6.7%)			\$ 232,787	(33.3%)	(6.5%)
	Alleys			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)
Blue	Arterials / Collectors	3.07	(13.7%)	1.77	(57.5%)	(7.9%)	574,590	(14.5%)	422,338	(73.5%)	(10.7%)	\$ 511,910	(14.3%)	\$ 385,912	(75.4%)	(10.8%)
	Locals			1.04	(34.0%)	(4.7%)			133,737	(23.3%)	(3.4%)			\$ 113,060	(22.1%)	(3.2%)
	Alleys			0.26	(8.5%)	(1.2%)			18,515	(3.2%)	(0.5%)			\$ 12,938	(2.5%)	(0.4%)
Yellow	Arterials / Collectors	2.86	(12.8%)	0.37	(13.1%)	(1.7%)	440,673	(11.1%)	70,905	(16.1%)	(1.8%)	\$ 435,040	(12.1%)	\$ 64,790	(14.9%)	(1.8%)
	Locals			2.49	(86.9%)	(11.1%)			369,768	(83.9%)	(9.3%)			\$ 370,249	(85.1%)	(10.3%)
	Alleys			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)
Pink	Arterials / Collectors	3.25	(14.5%)	0.78	(24.0%)	(3.5%)	550,846	(13.9%)	143,110	(26.0%)	(3.6%)	\$ 451,336	(12.6%)	\$ 130,767	(29.0%)	(3.6%)
	Locals			2.47	(76.0%)	(11.0%)			407,736	(74.0%)	(10.3%)			\$ 320,568	(71.0%)	(8.9%)
	Alleys			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)			-	(0.0%)	(0.0%)
Total / Avg	Arterials / Collectors	22.42	(100.0%)	10.60	(47.3%)		3,957,234	(100.0%)	2,075,420	(52.4%)		\$ 3,588,059	(100.0%)	\$ 1,896,420	(52.9%)	
	Locals			11.51	(51.3%)				1,859,474	(47.0%)				\$ 1,676,028	(46.7%)	
	Alleys			0.31	(1.4%)				22,340	(0.6%)				\$ 15,610	(0.4%)	



2024  
Maintenance  
Project  
"Project No. 3"  
5 miles

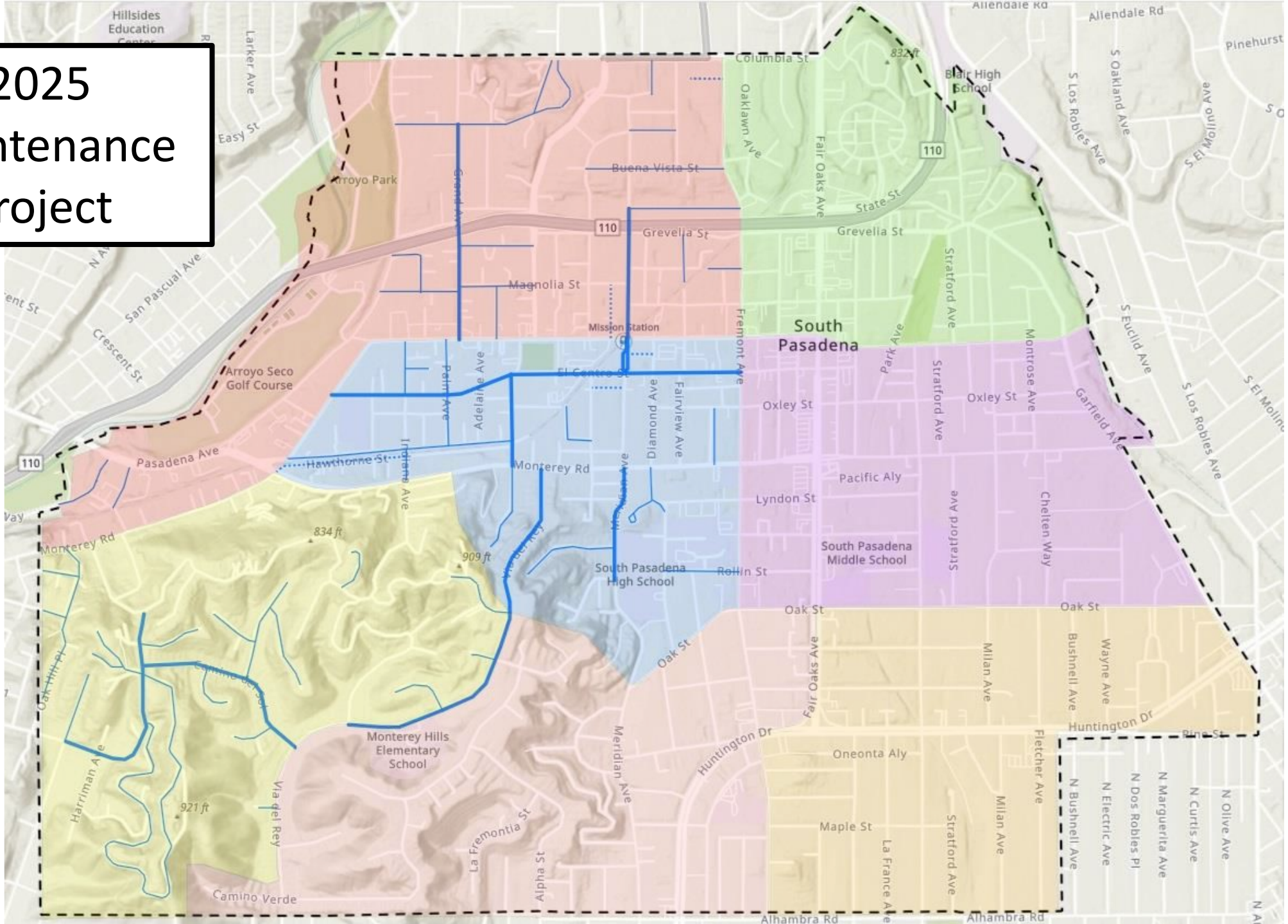






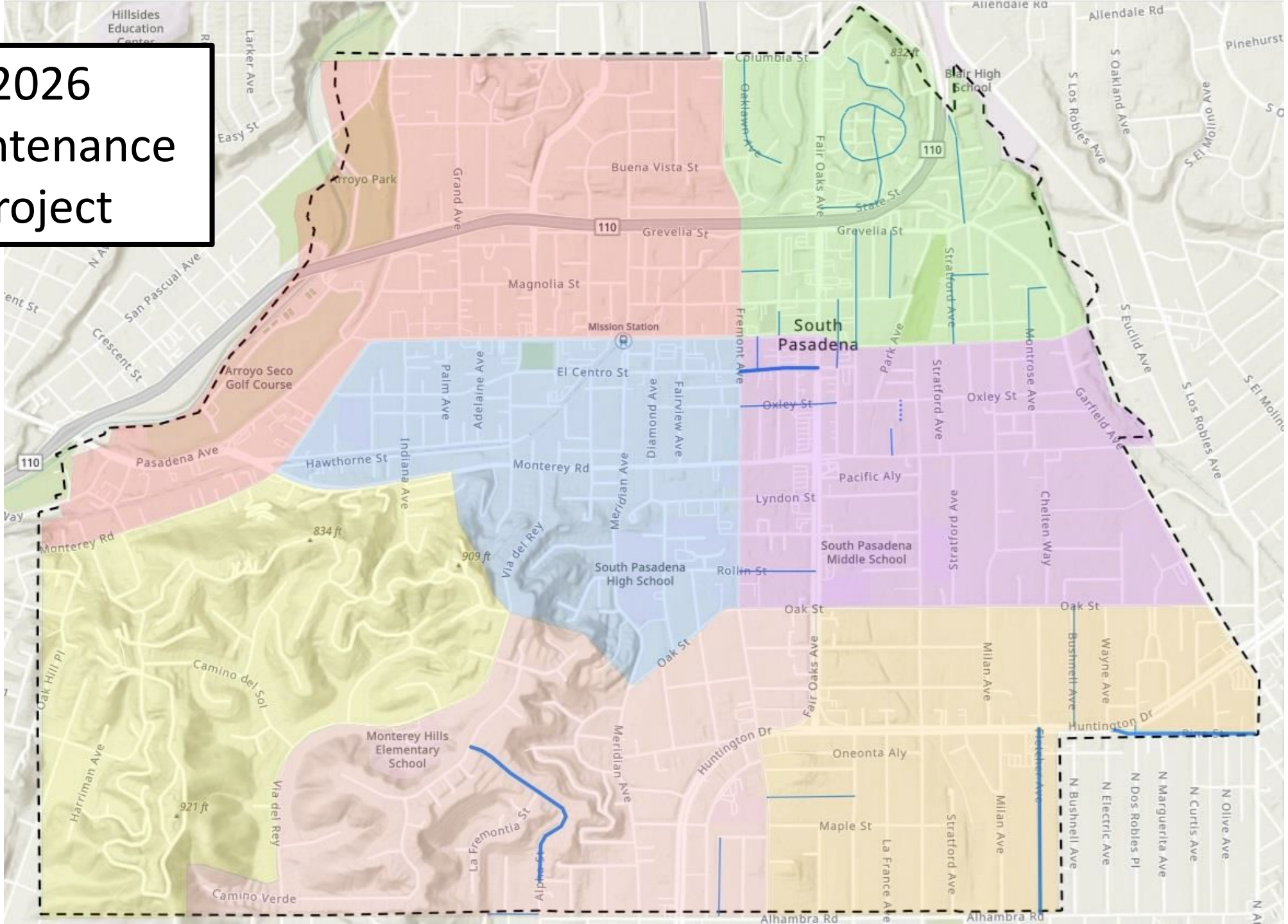


# 2025 Maintenance Project





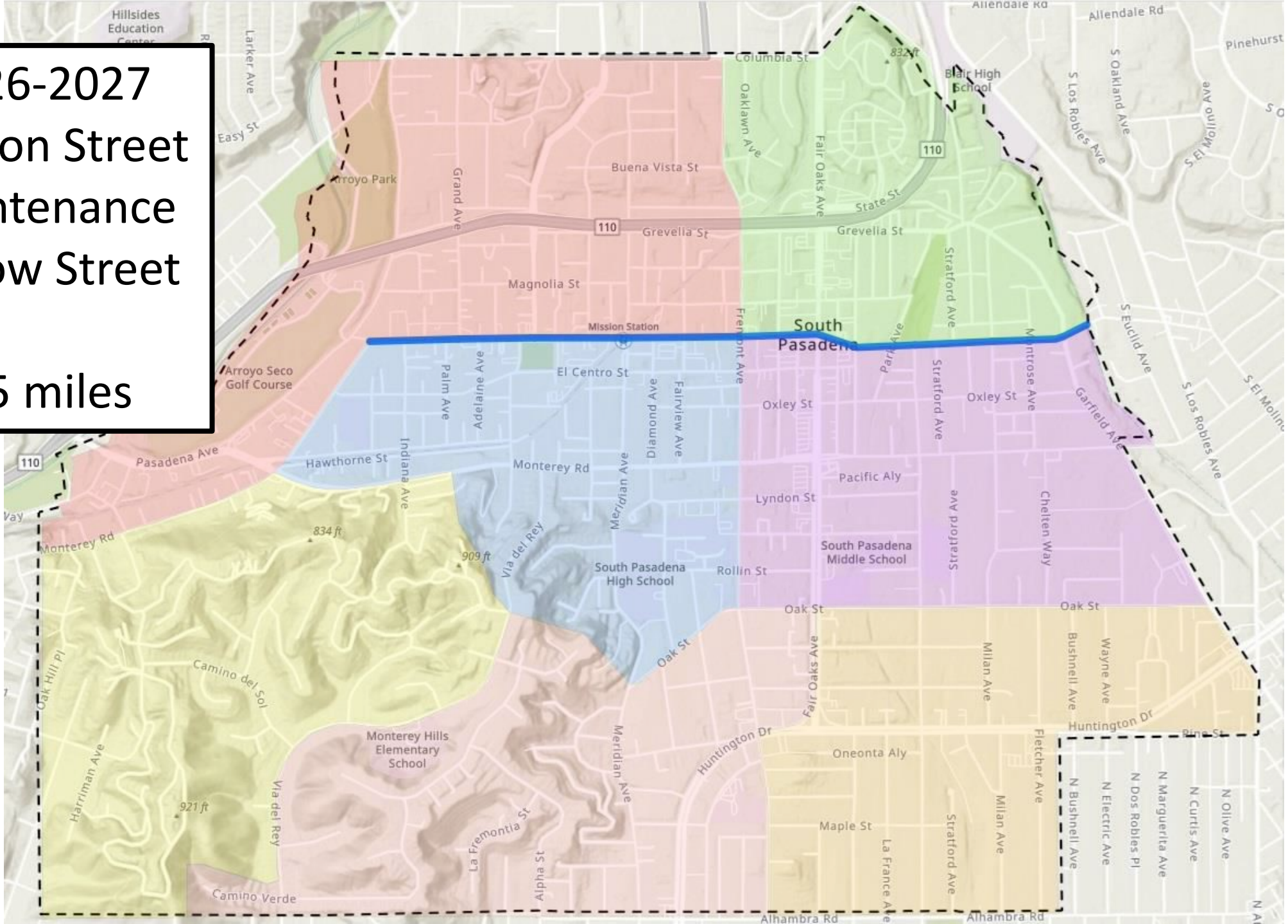
# 2026 Maintenance Project





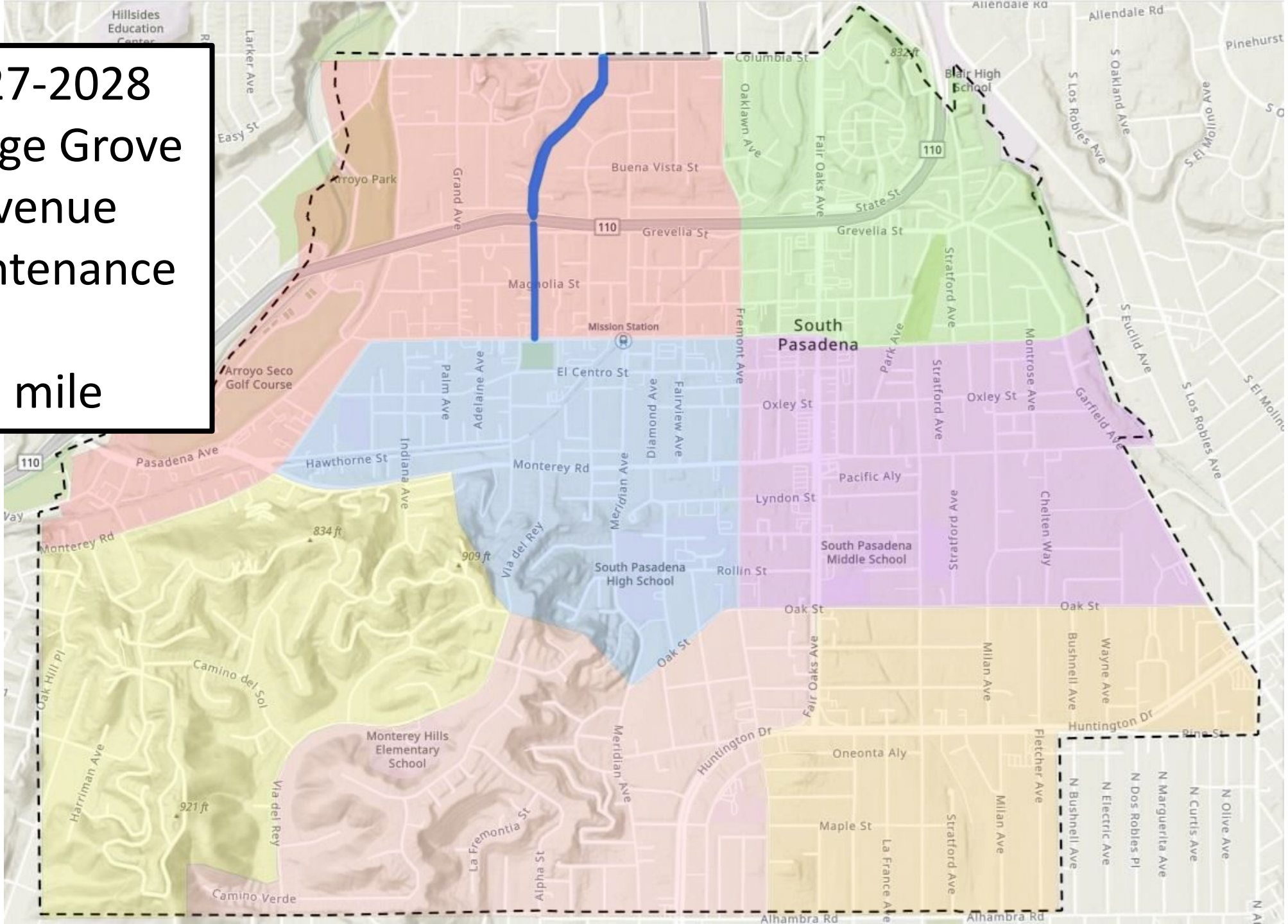
**2026-2027  
Mission Street  
Maintenance  
& Slow Street**

**1.5 miles**





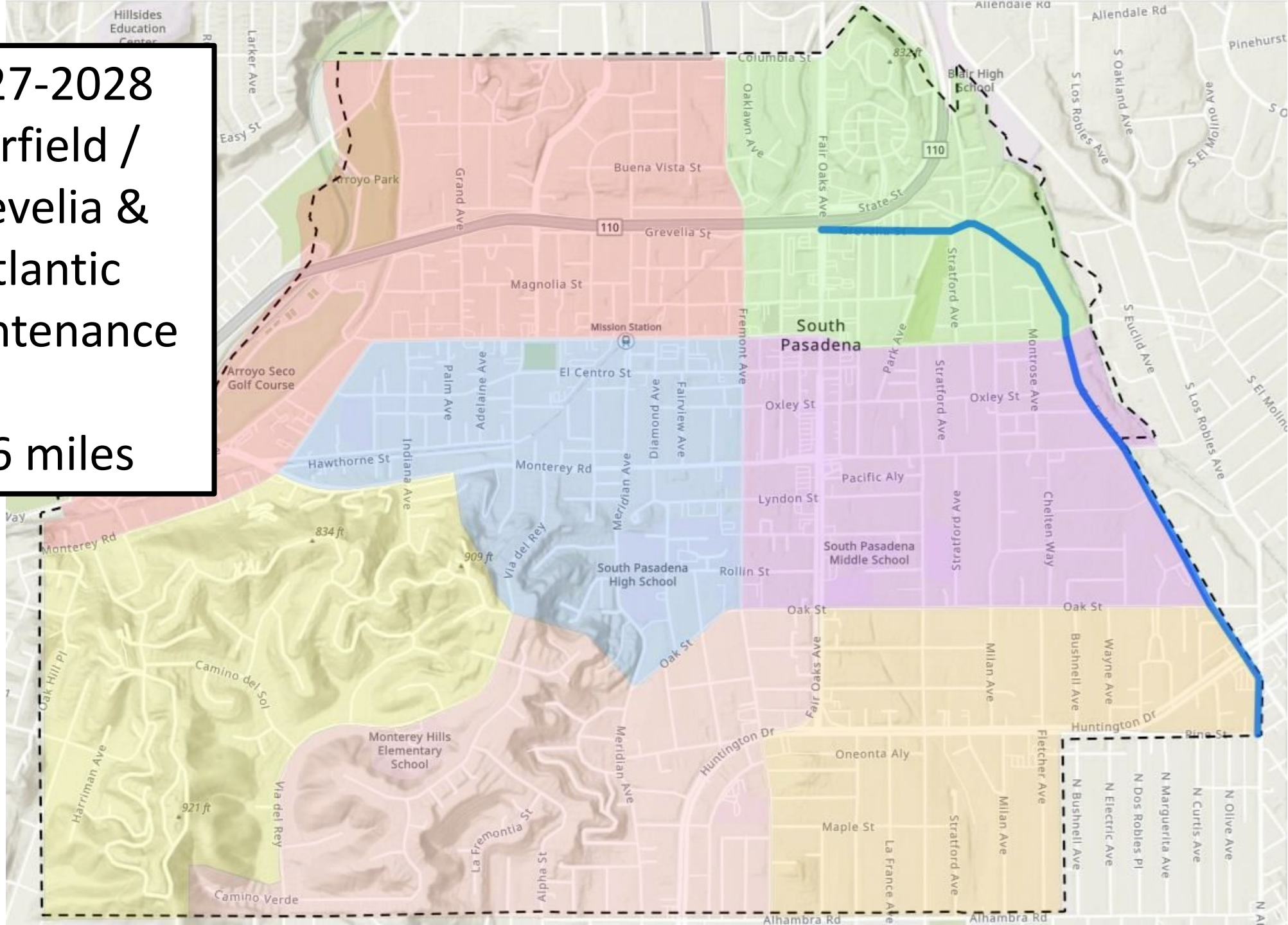
2027-2028  
Orange Grove  
Avenue  
Maintenance  
  
1 mile





# 2027-2028 Garfield / Grevelia & Atlantic Maintenance

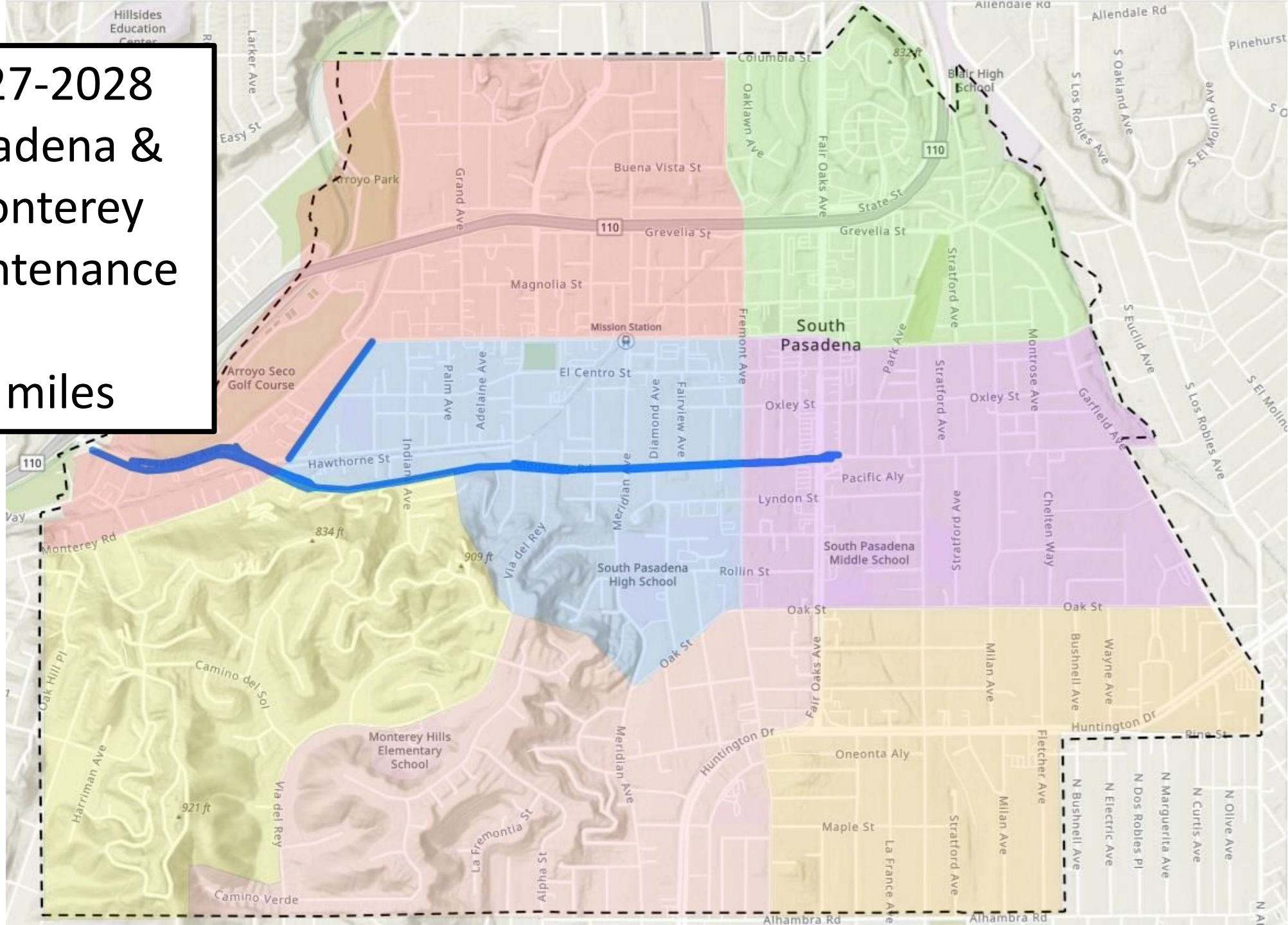
1.6 miles





# 2027-2028 Pasadena & Monterey Maintenance

3 miles

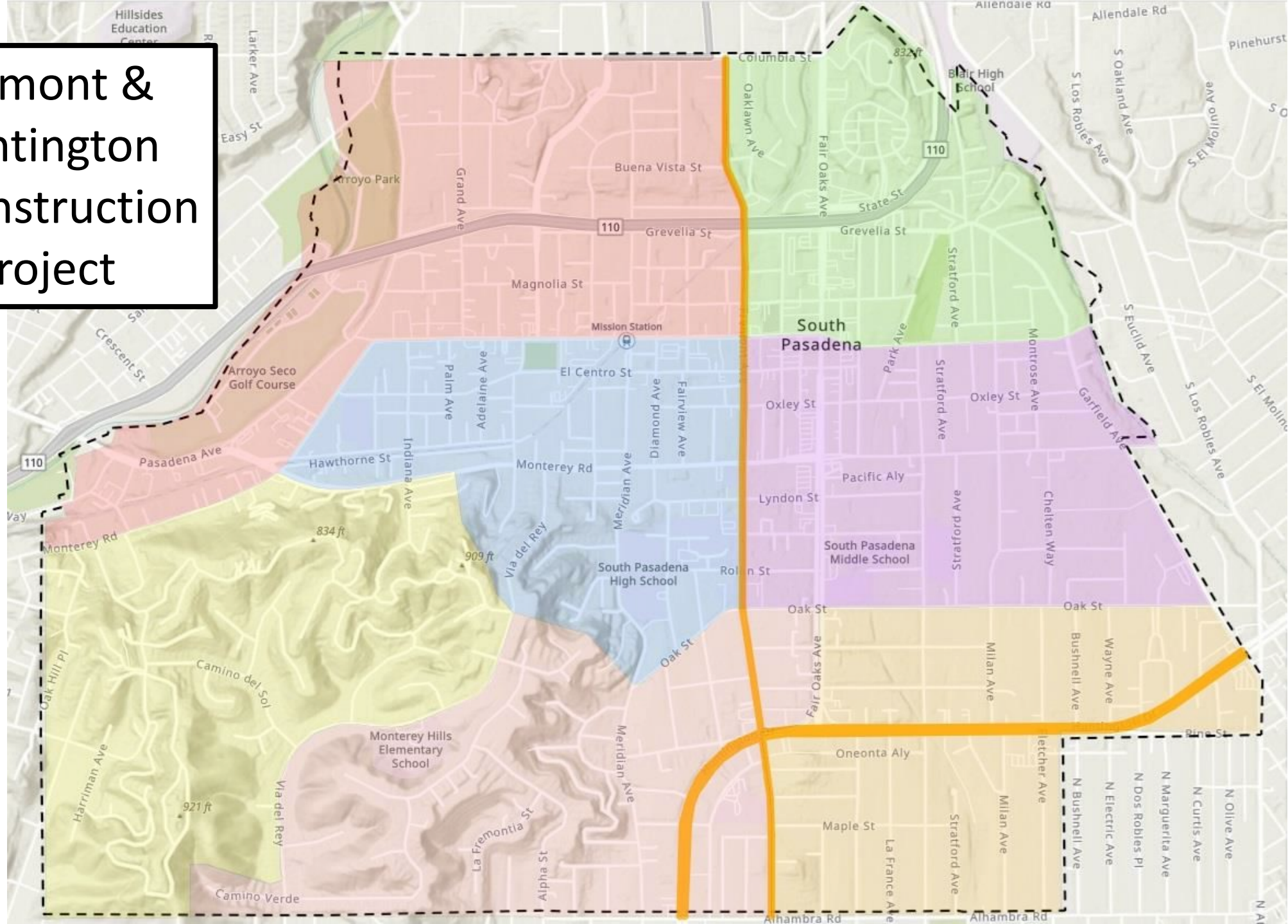




# Street Project Review

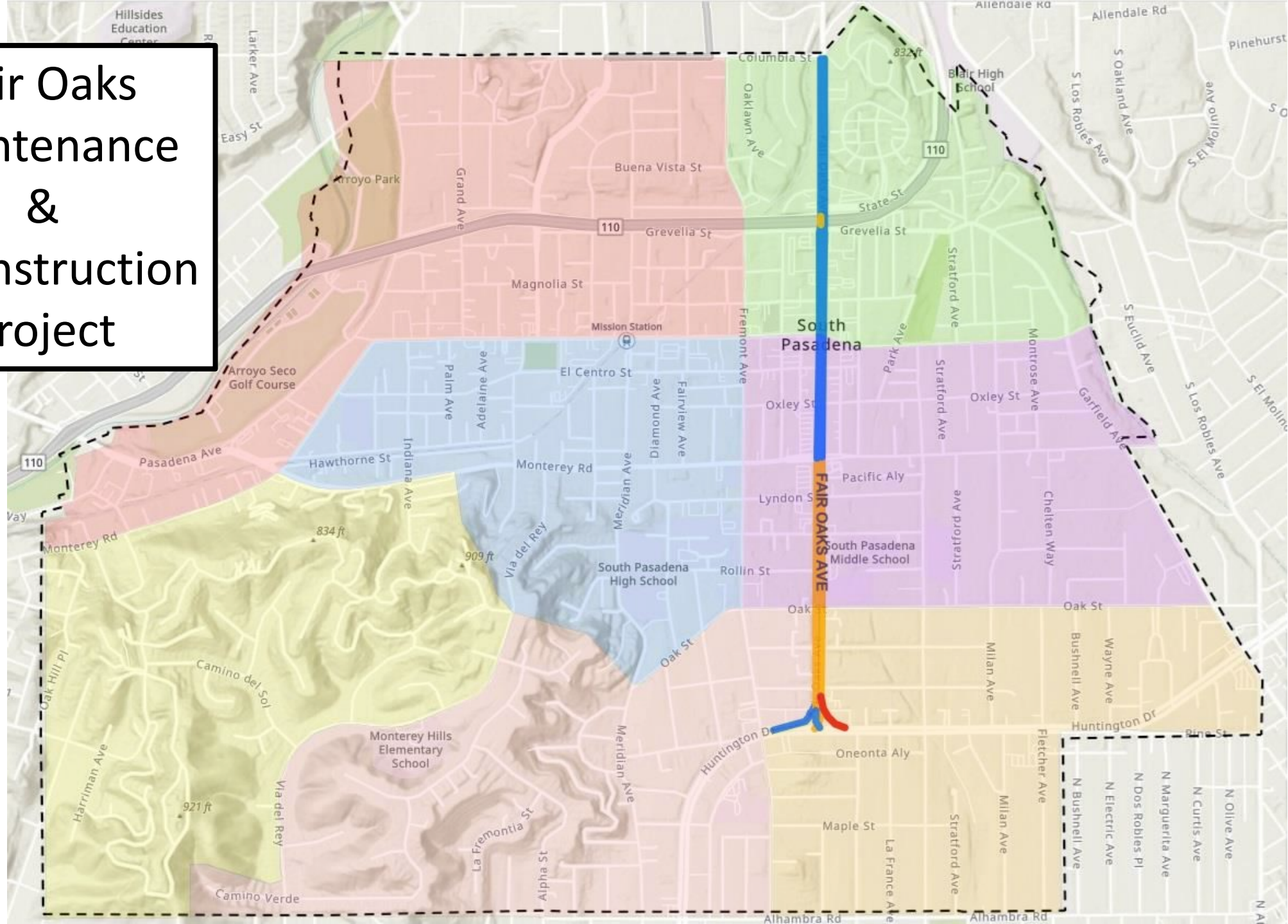
## Arterial Projects with Metro & Caltrans Funding Schedules

# Fremont & Huntington Reconstruction Project





# Fair Oaks Maintenance & Reconstruction Project



# Street Project Review

## Reconstruction Projects by Zone



# Reconstruction Summary

		Grind & Overlay (49.5%)					
		Length (mi)	(% of Zone) / (% of Total)	Surface Area (sq. ft.)	(% of Zone) / (% of Total)	Cost (\$)	(% of Zone) / (% of Total)
Orange	Arterials / Collectors	8.94 (26.6%)	2.82 (31.6%) / (8.4%)	1,824,396 (31.3%)	609,486 (33.4%) / (10.5%)	\$ 10,839,031 (34.6%)	\$ 4,140,556 (38.2%) / (13.2%)
	Locals		3.29 (36.9%) / (9.8%)		605,424 (33.2%) / (10.4%)		\$ 2,557,919 (23.6%) / (8.2%)
	Alleys		2.82 (31.6%) / (8.4%)		609,486 (33.4%) / (10.5%)		\$ 4,140,556 (38.2%) / (13.2%)
Purple	Arterials / Collectors	5.31 (15.8%)	1.54 (29.0%) / (4.6%)	904,644 (15.5%)	305,253 (33.7%) / (5.2%)	\$ 4,635,623 (14.8%)	\$ 2,103,193 (45.4%) / (6.7%)
	Locals		3.69 (69.5%) / (11.0%)		593,016 (65.6%) / (10.2%)		\$ 2,505,495 (54.0%) / (8.0%)
	Alleys		0.08 (1.5%) / (0.2%)		6,375 (0.7%) / (0.1%)		\$ 26,935 (0.6%) / (0.1%)
Green	Arterials / Collectors	3.87 (11.5%)	0.77 (20.0%) / (2.3%)	566,886 (9.7%)	95,268 (16.8%) / (1.6%)	\$ 2,714,726 (8.7%)	\$ 562,322 (20.7%) / (1.8%)
	Locals		2.32 (60.0%) / (6.9%)		376,350 (66.4%) / (6.5%)		\$ 1,590,083 (58.6%) / (5.1%)
	Alleys		0.77 (20.0%) / (2.3%)		95,268 (16.8%) / (1.6%)		\$ 562,322 (20.7%) / (1.8%)
Red	Arterials / Collectors	3.68 (11.0%)	0.65 (17.8%) / (1.9%)	563,774 (9.7%)	126,328 (22.4%) / (2.2%)	\$ 2,718,615 (8.7%)	\$ 870,401 (32.0%) / (2.8%)
	Locals		3.03 (82.2%) / (9.0%)		437,446 (77.6%) / (7.5%)		\$ 1,848,214 (68.0%) / (5.9%)
	Alleys		- (0.0%) / (0.0%)		- (0.0%) / (0.0%)		- (0.0%) / (0.0%)
Blue	Arterials / Collectors	3.87 (11.5%)	0.99 (25.4%) / (2.9%)	638,098 (10.9%)	203,572 (31.9%) / (3.5%)	\$ 3,238,491 (10.3%)	\$ 1,402,613 (43.3%) / (4.5%)
	Locals		2.69 (69.5%) / (8.0%)		419,076 (65.7%) / (7.2%)		\$ 1,770,601 (54.7%) / (5.6%)
	Alleys		0.20 (5.0%) / (0.6%)		15,450 (2.4%) / (0.3%)		\$ 65,277 (2.0%) / (0.2%)
Yellow	Arterials / Collectors	3.09 (9.2%)	0.90 (29.2%) / (2.7%)	418,502 (7.2%)	136,019 (32.5%) / (2.3%)	\$ 2,130,665 (6.8%)	\$ 937,171 (44.0%) / (3.0%)
	Locals		2.19 (70.8%) / (6.5%)		282,483 (67.5%) / (4.8%)		\$ 1,193,494 (56.0%) / (3.8%)
	Alleys		- (0.0%) / (0.0%)		- (0.0%) / (0.0%)		- (0.0%) / (0.0%)
Pink	Arterials / Collectors	4.82 (14.3%)	2.01 (41.8%) / (6.0%)	912,287 (15.7%)	452,881 (49.6%) / (7.8%)	\$ 5,061,343 (16.2%)	\$ 3,120,351 (61.7%) / (10.0%)
	Locals		2.80 (58.2%) / (8.4%)		459,406 (50.4%) / (7.9%)		\$ 1,940,992 (38.3%) / (6.2%)
	Alleys		- (0.0%) / (0.0%)		- (0.0%) / (0.0%)		- (0.0%) / (0.0%)
Total / Avg	Arterials / Collectors	33.58 (100.0%)	9.69 (28.9%)	5,828,587 (100.0%)	1,928,807 (33.1%)	\$ 31,338,494 (100.0%)	\$ 13,136,607 (41.9%)
	Locals		20.02 (59.6%)		3,173,201 (54.4%)		\$ 13,406,799 (42.8%)
	Alleys		3.87 (11.5%)		726,579 (12.5%)		\$ 4,795,089 (15.3%)

# Reconstruction Summary

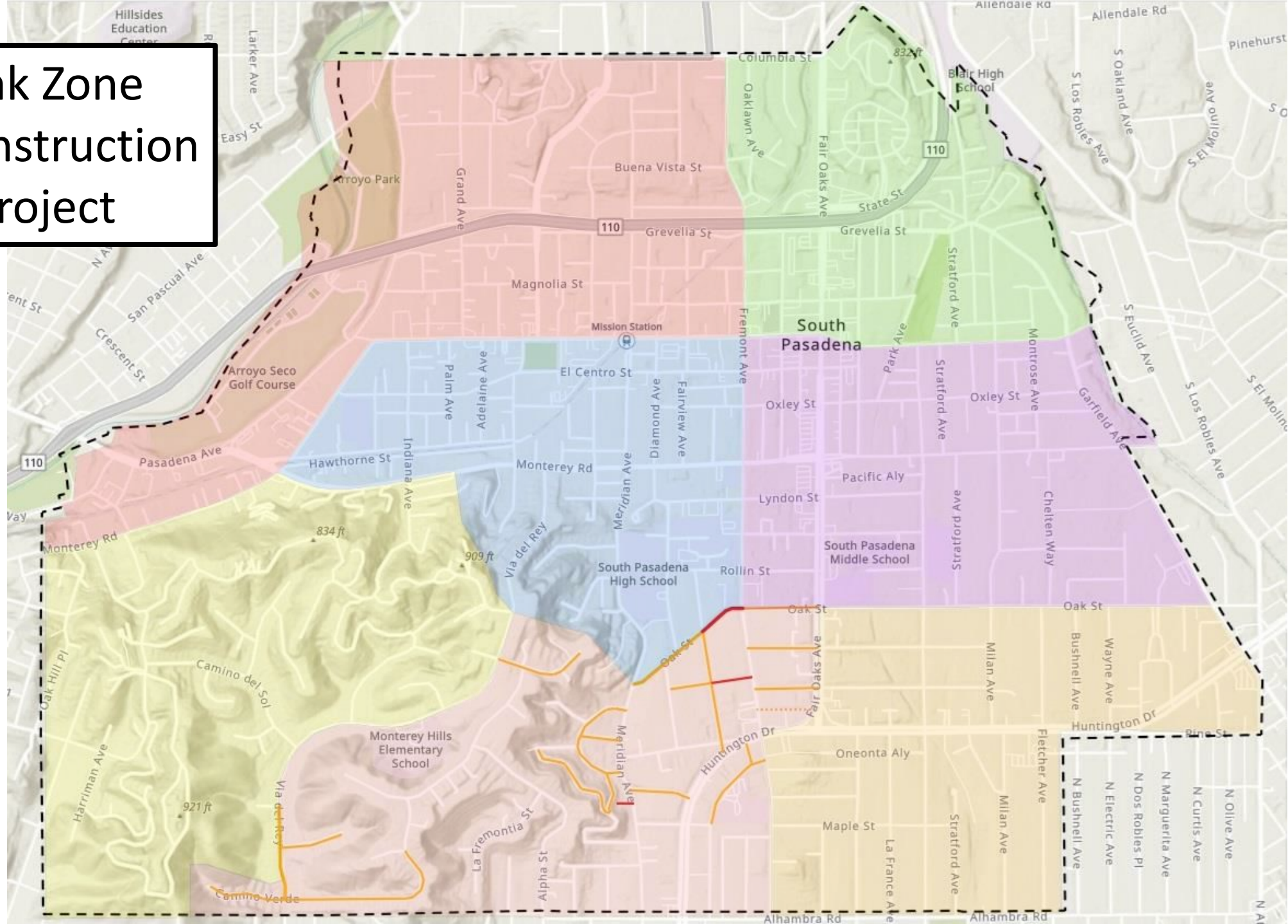
		Reconstruction (5.1%)									
		Length (mi)			Surface Area (sq. ft.)			Cost (\$)			
			(% of Zone)	(% of Total)		(% of Zone)	(% of Total)		(% of Zone)	(% of Total)	
Orange	Arterials / Collectors	0.26 (6.4%)	0.09 (33.4%)	(2.1%)	43,913 (7.3%)	11,748 (26.8%)	(2.0%)	\$ 572,871 (4.6%)	\$ 175,633 (30.7%)	(1.4%)	
	Locals		0.17 (66.6%)	(4.2%)		32,165 (73.2%)	(5.4%)		\$ 397,238 (69.3%)	(3.2%)	
	Alleys		- (0.0%)	(0.0%)		- (0.0%)	(0.0%)		- (0.0%)	(0.0%)	
Purple	Arterials / Collectors	0.49 (12.0%)	- (0.0%)	(0.0%)	50,620 (8.5%)	- (0.0%)	(0.0%)	\$ 806,525 (6.4%)	- (0.0%)	(0.0%)	
	Locals		0.36 (73.8%)	(8.8%)		40,420 (79.8%)	(6.8%)		\$ 680,554 (84.4%)	(5.4%)	
	Alleys		0.13 (26.2%)	(3.1%)		10,200 (20.2%)	(1.7%)		\$ 125,971 (15.6%)	(1.0%)	
Green	Arterials / Collectors	0.28 (6.7%)	- (0.0%)	(0.0%)	35,814 (6.0%)	- (0.0%)	(0.0%)	\$ 657,131 (5.2%)	- (0.0%)	(0.0%)	
	Locals		0.28 (100.0%)	(6.7%)		35,814 (100.0%)	(6.0%)		\$ 657,131 (100.0%)	(5.2%)	
	Alleys		- (0.0%)	(0.0%)		- (0.0%)	(0.0%)		- (0.0%)	(0.0%)	
Red	Arterials / Collectors	1.84 (44.8%)	1.07 (58.4%)	(26.2%)	327,385 (54.7%)	226,057 (69.0%)	(37.8%)	\$ 7,824,033 (62.4%)	\$ 6,103,540 (78.0%)	(48.7%)	
	Locals		0.67 (36.3%)	(16.3%)		96,238 (29.4%)	(16.1%)		\$ 1,657,632 (21.2%)	(13.2%)	
	Alleys		0.10 (5.2%)	(2.4%)		5,090 (1.6%)	(0.9%)		\$ 62,862 (0.8%)	(0.5%)	
Blue	Arterials / Collectors	0.42 (10.3%)	0.09 (21.6%)	(2.2%)	48,845 (8.2%)	15,840 (32.4%)	(2.6%)	\$ 702,436 (5.6%)	\$ 236,808 (33.7%)	(1.9%)	
	Locals		0.16 (37.6%)	(3.9%)		19,430 (39.8%)	(3.2%)		\$ 239,962 (34.2%)	(1.9%)	
	Alleys		0.17 (40.7%)	(4.2%)		13,575 (27.8%)	(2.3%)		\$ 225,666 (32.1%)	(1.8%)	
Yellow	Arterials / Collectors	0.59 (14.4%)	- (0.0%)	(0.0%)	63,508 (10.6%)	- (0.0%)	(0.0%)	\$ 1,617,323 (12.9%)	- (0.0%)	(0.0%)	
	Locals		0.59 (100.0%)	(14.4%)		63,508 (100.0%)	(10.6%)		\$ 1,617,323 (100.0%)	(12.9%)	
	Alleys		- (0.0%)	(0.0%)		- (0.0%)	(0.0%)		- (0.0%)	(0.0%)	
Pink	Arterials / Collectors	0.22 (5.4%)	- (0.0%)	(0.0%)	28,192 (4.7%)	- (0.0%)	(0.0%)	\$ 348,171 (2.8%)	- (0.0%)	(0.0%)	
	Locals		0.11 (49.0%)	(2.7%)		16,172 (57.4%)	(2.7%)		\$ 199,724 (57.4%)	(1.6%)	
	Alleys		0.11 (51.0%)	(2.8%)		12,020 (42.6%)	(2.0%)		\$ 148,447 (42.6%)	(1.2%)	
Total / Avg	Arterials / Collectors	4.10 (100.0%)	1.25 (30.5%)		598,277 (100.0%)	253,645 (42.4%)		\$ 12,528,490 (100.0%)	\$ 6,515,980 (52.0%)		
	Locals		2.34 (57.0%)			303,747 (50.8%)			\$ 5,449,564 (43.5%)		
	Alleys		0.51 (12.4%)			40,885 (6.8%)			\$ 562,946 (4.5%)		





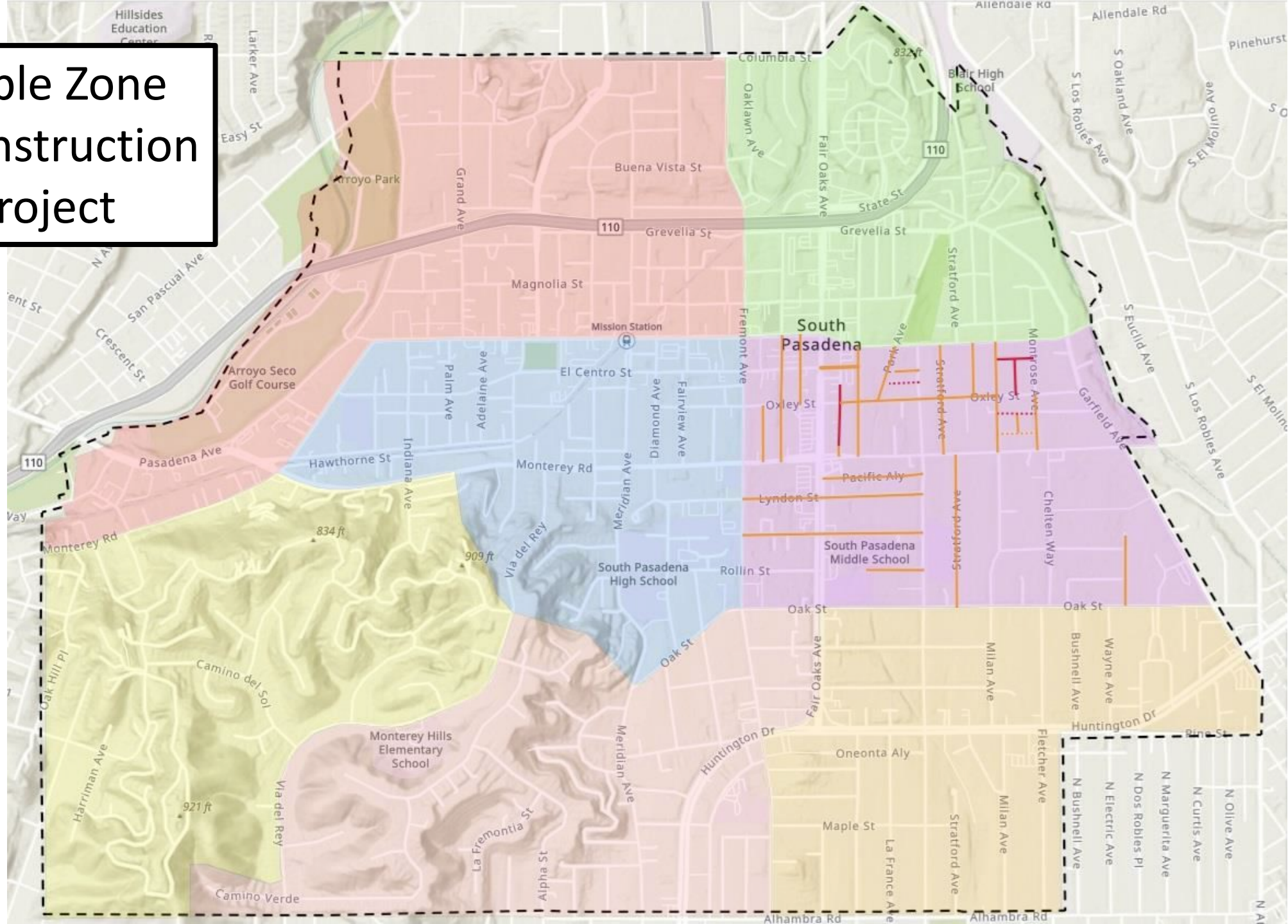


# Pink Zone Reconstruction Project



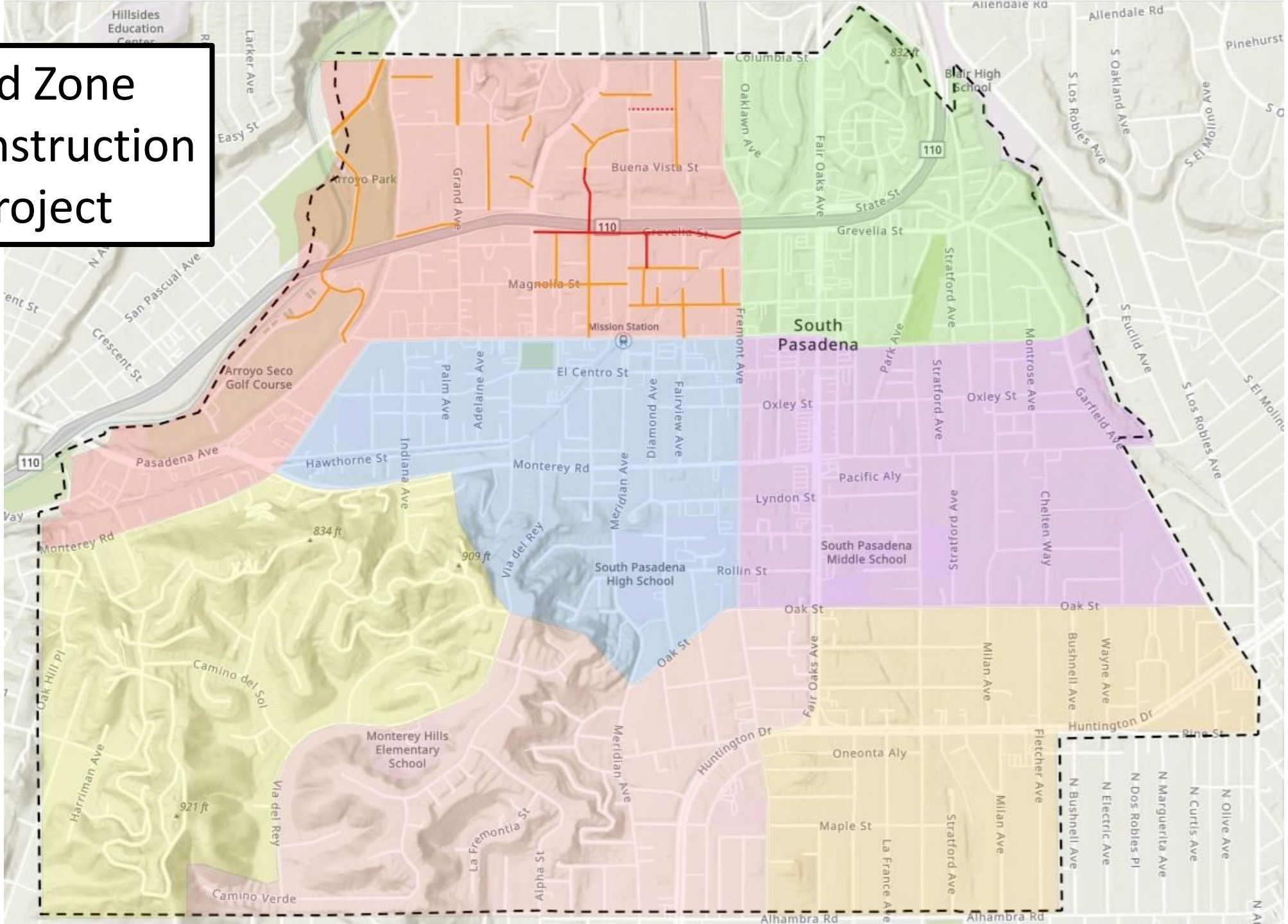


# Purple Zone Reconstruction Project



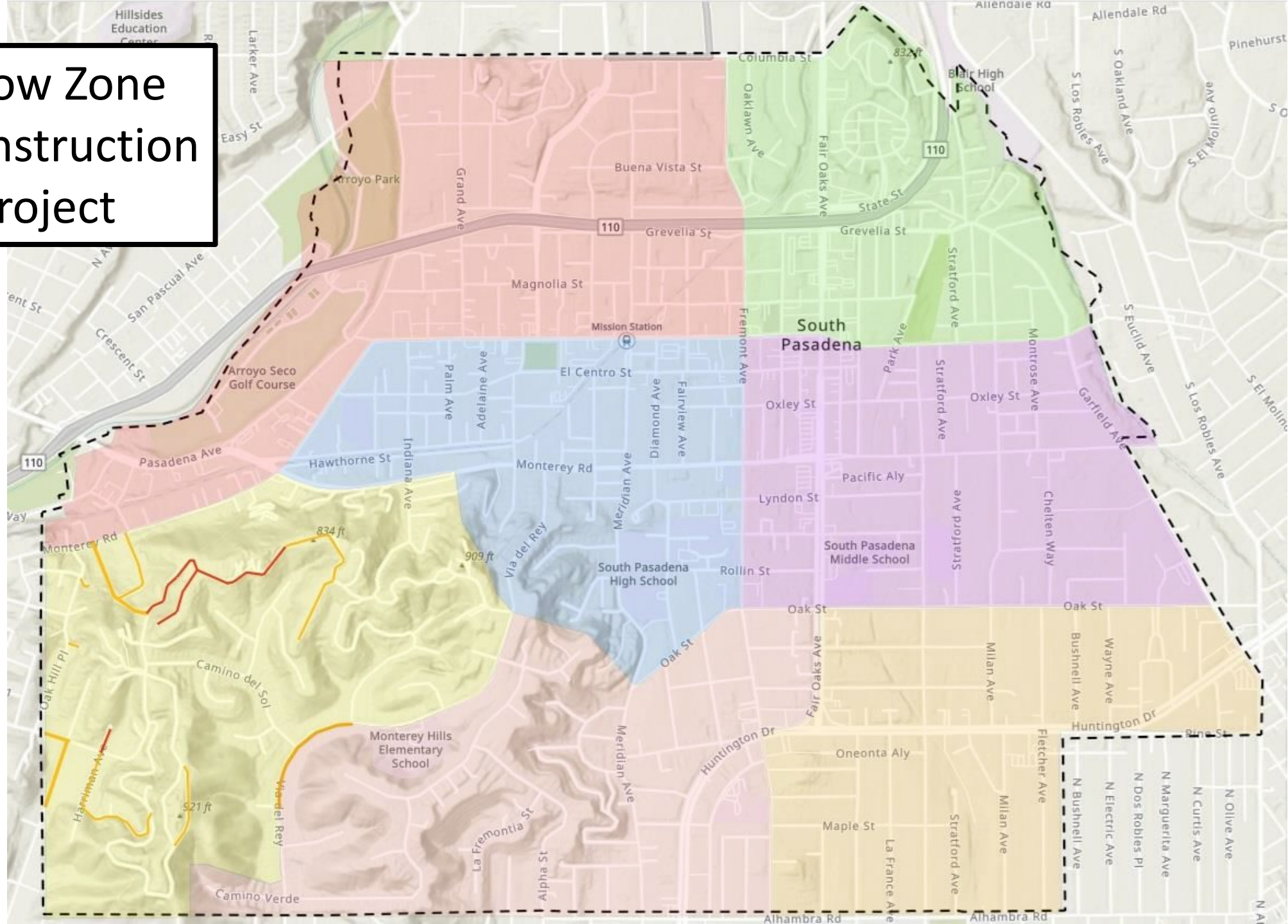


# Red Zone Reconstruction Project



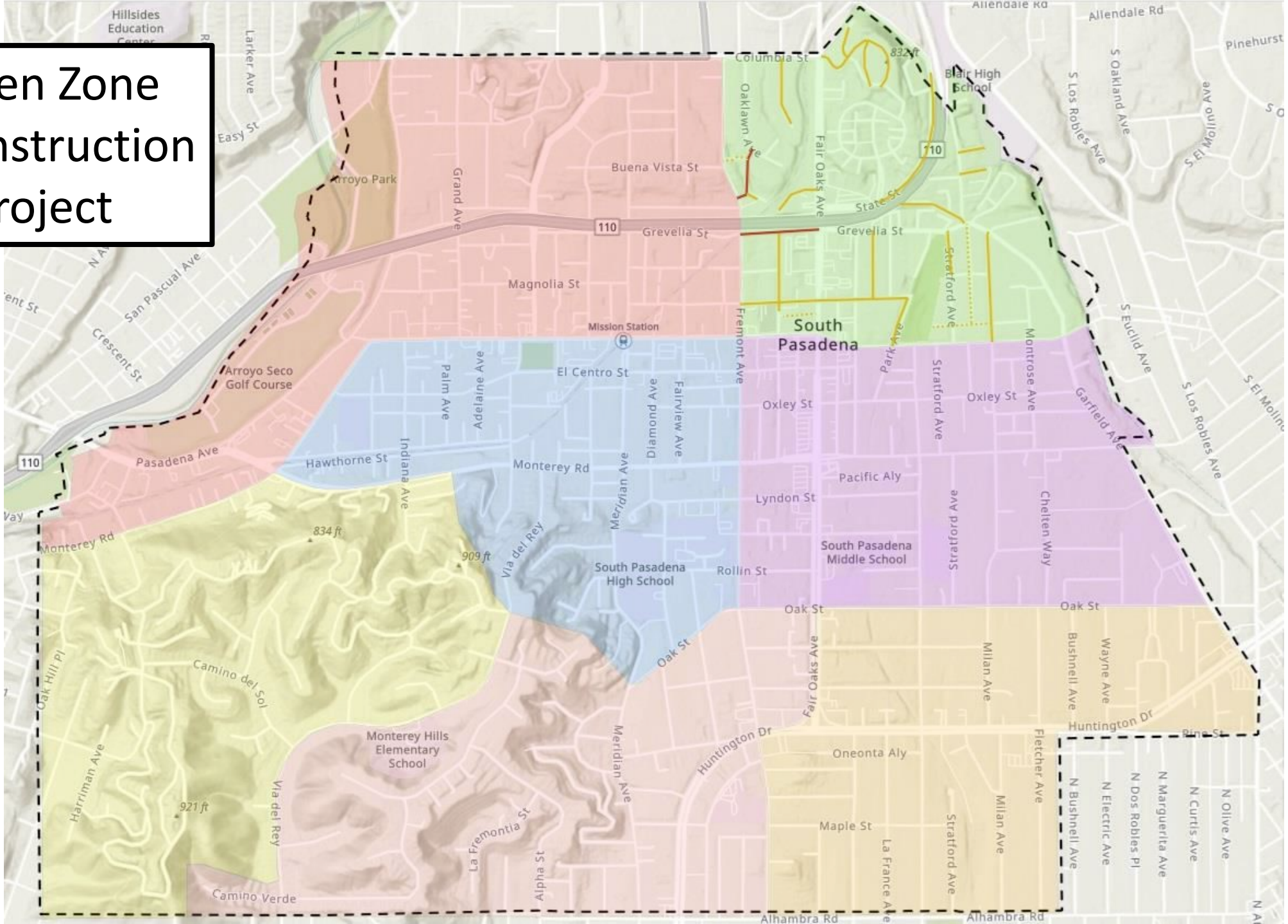


# Yellow Zone Reconstruction Project



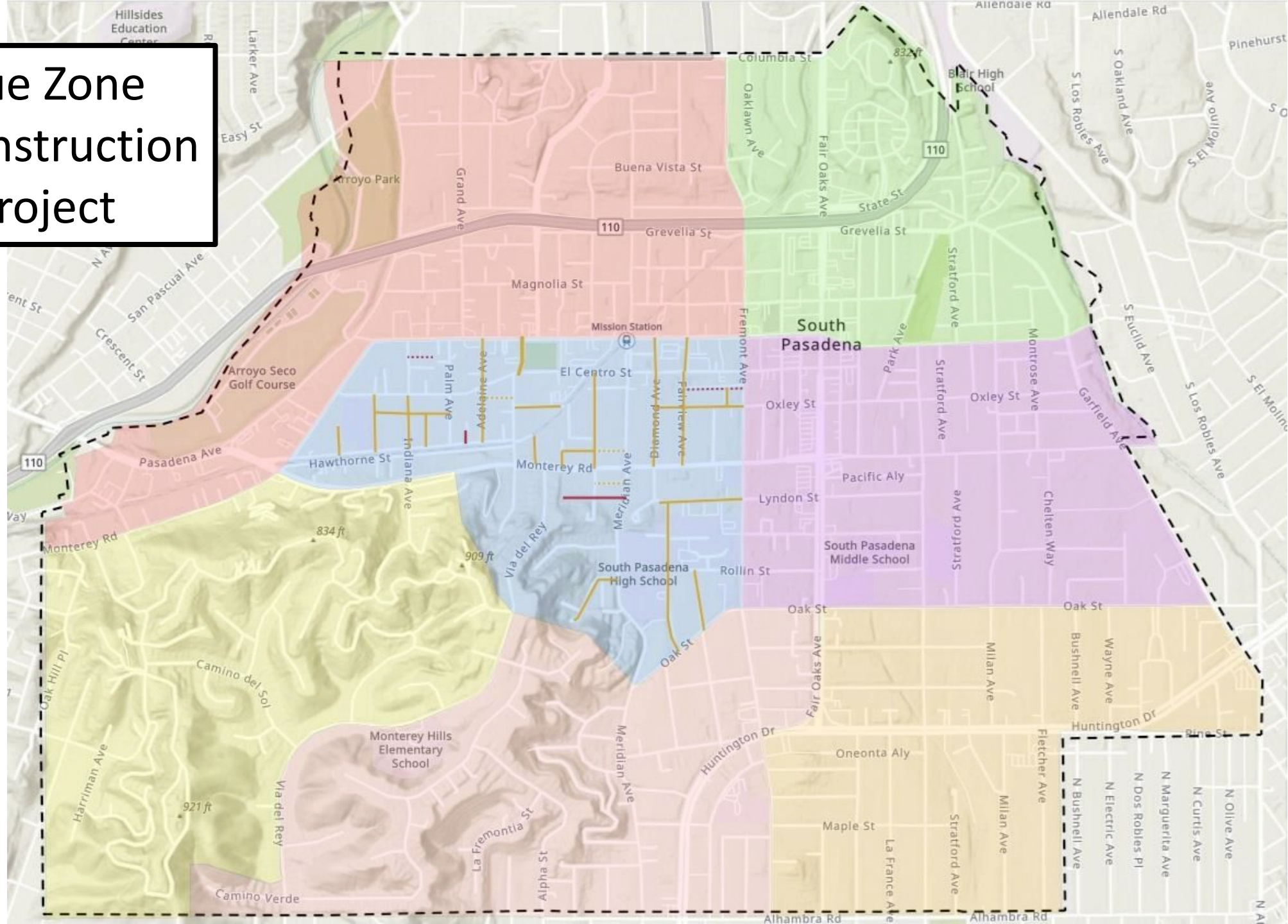


# Green Zone Reconstruction Project





# Blue Zone Reconstruction Project

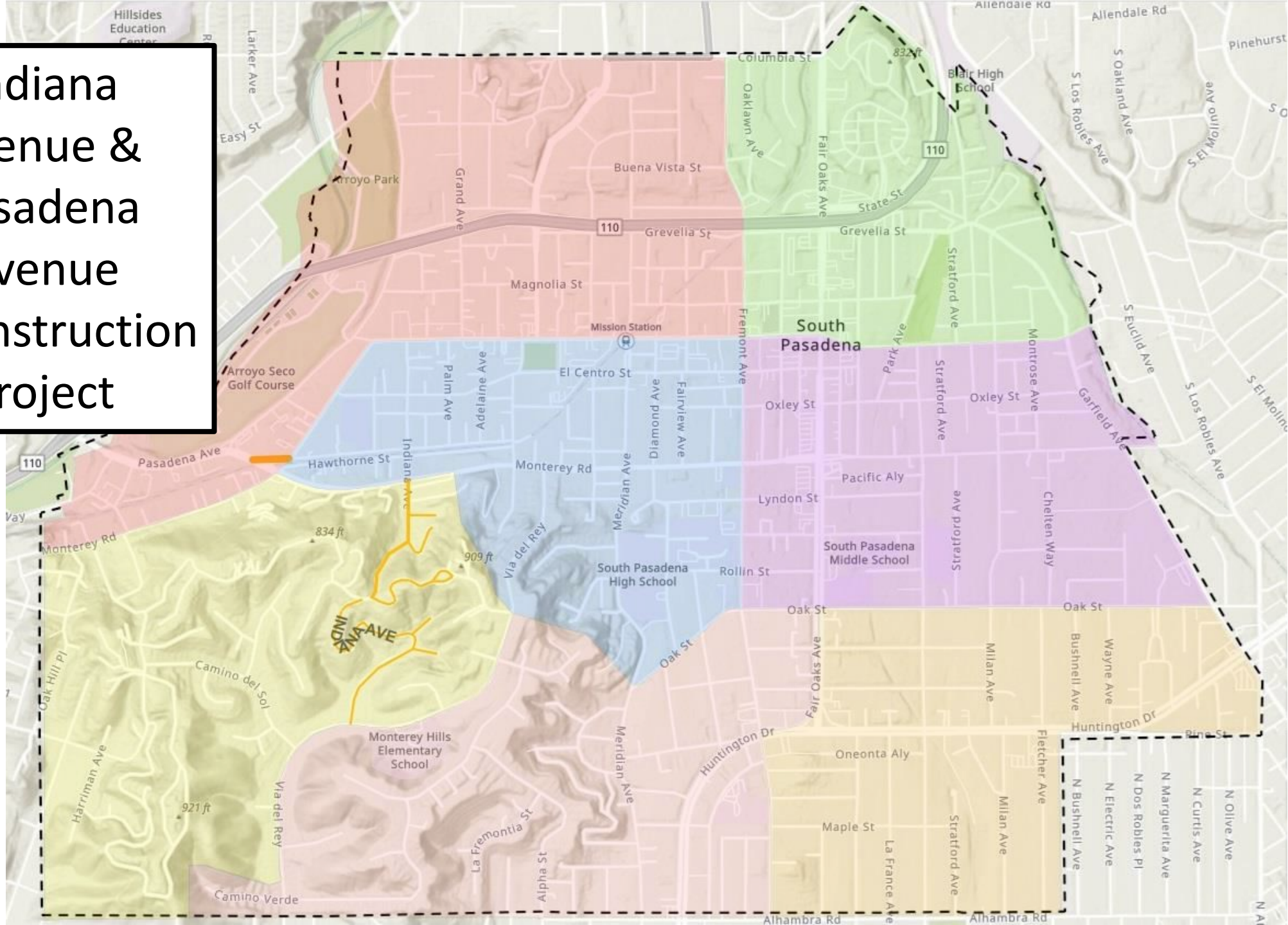




# Street Project Review

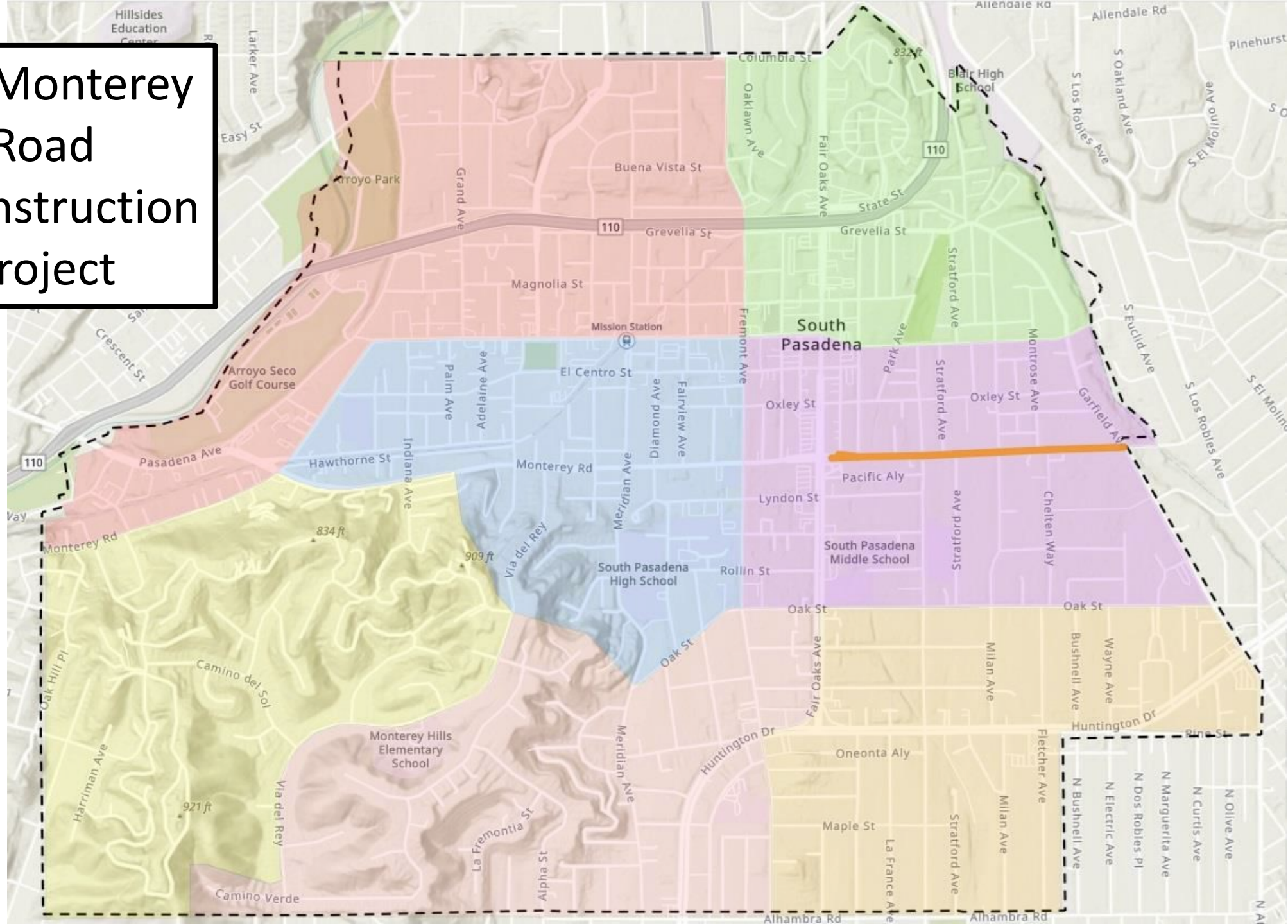
## Arterial & Collector Reconstruction Projects

# Indiana Avenue & Pasadena Avenue Reconstruction Project



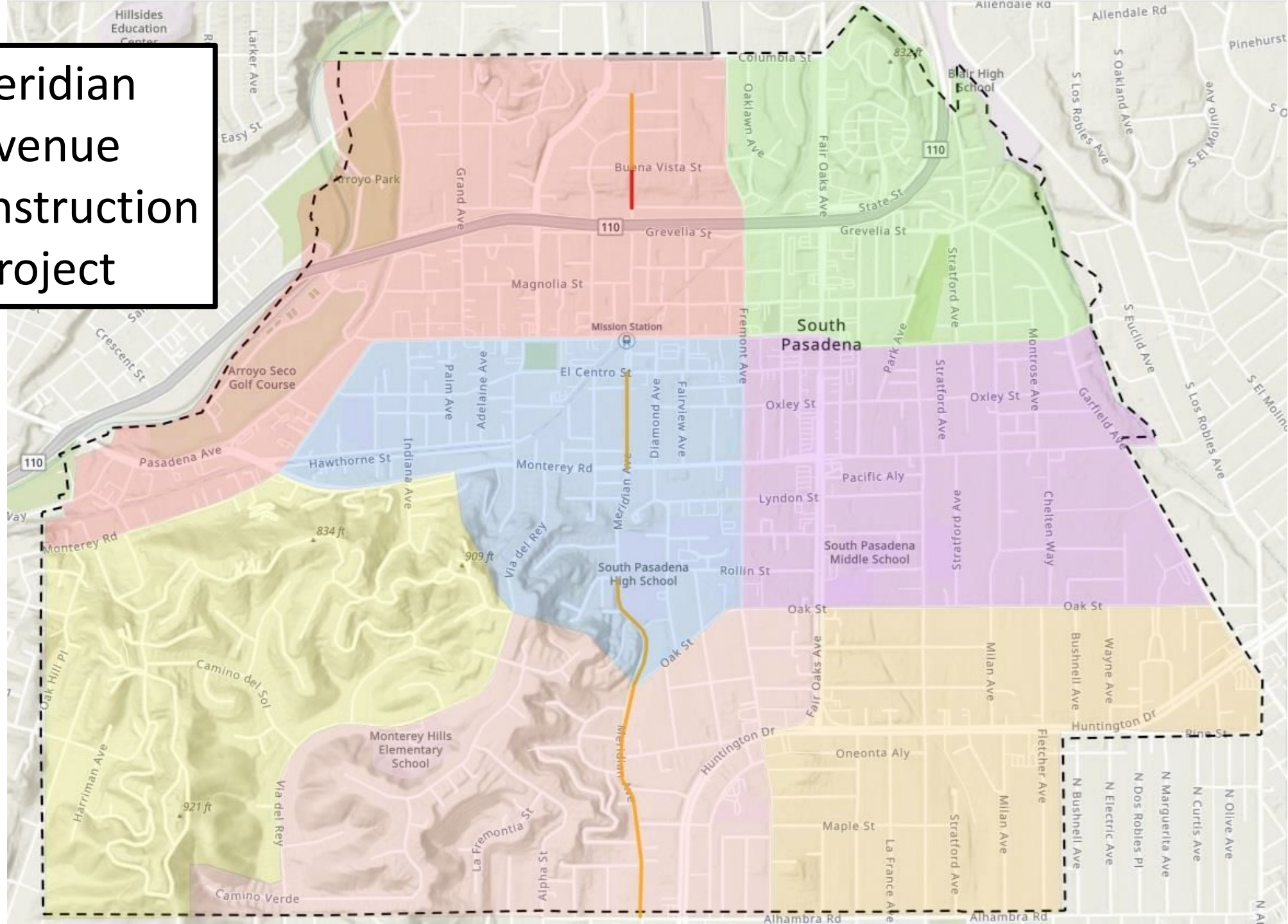


# East Monterey Road Reconstruction Project



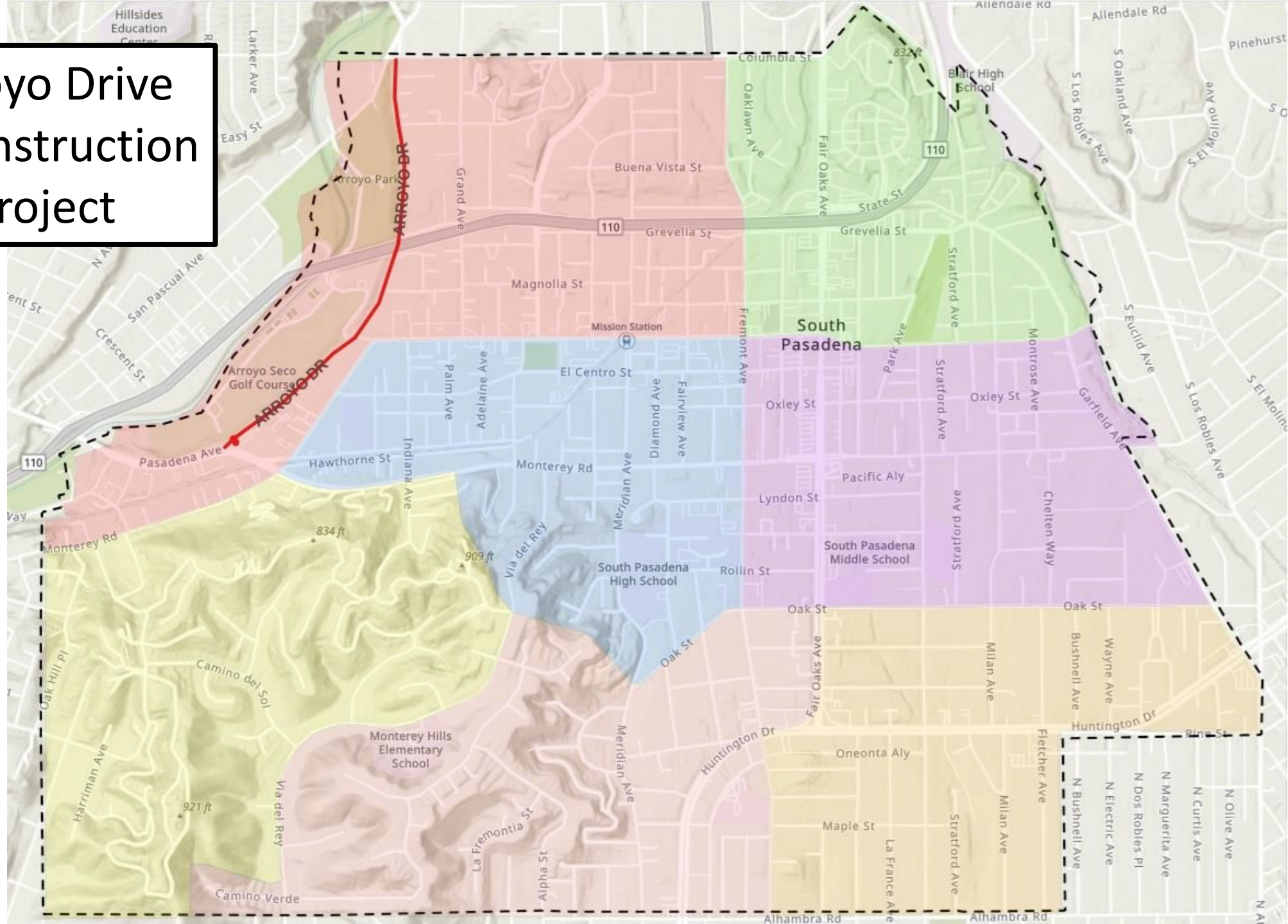


# Meridian Avenue Reconstruction Project



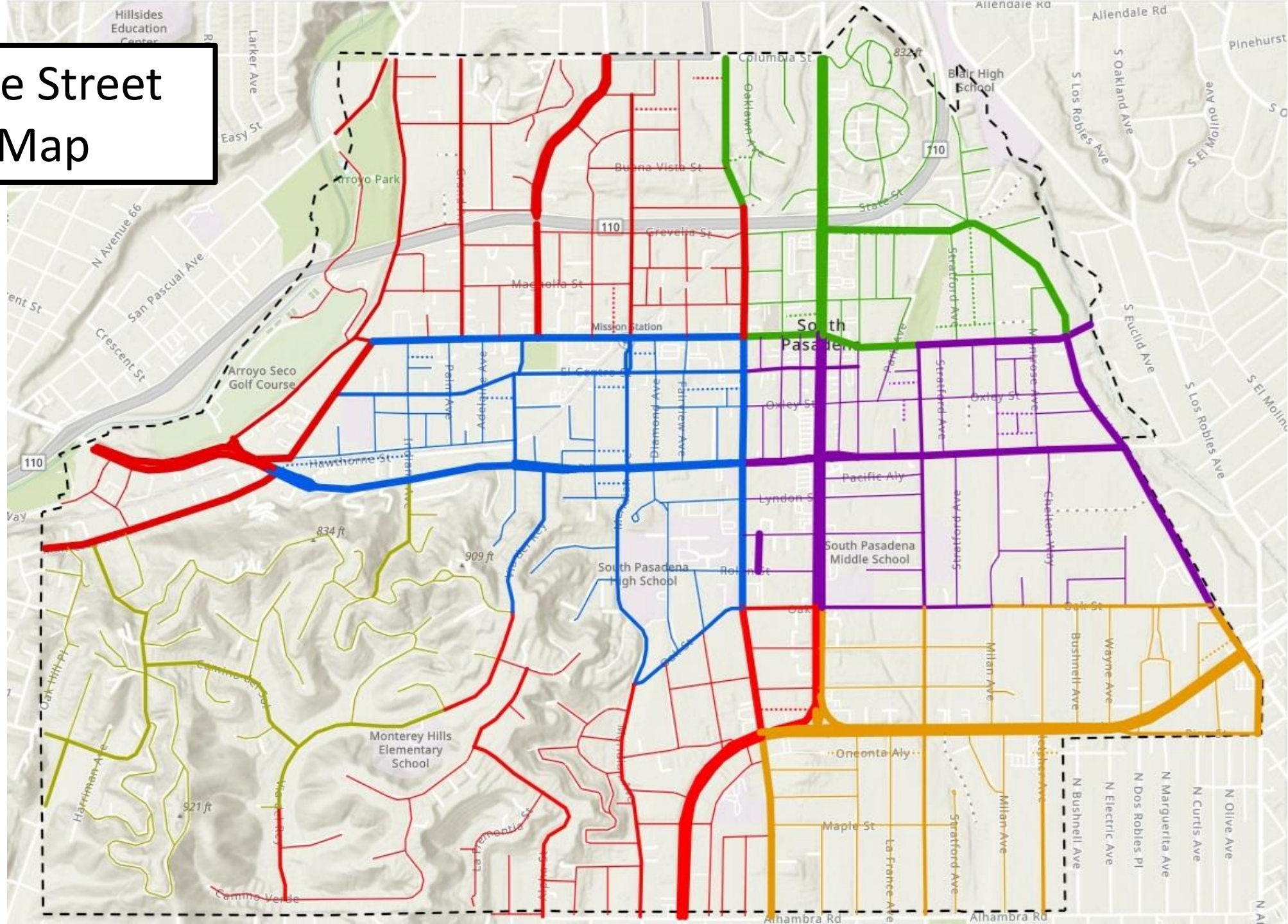


# Arroyo Drive Reconstruction Project





# Zone Street Map







All values are in 2023 dollars unless otherwise specified

		Year 1 FY 23-24	Year 2 FY 24-25	Year 3 FY 25-26	Year 4 FY 26-27	Year 5 FY 27-28	Year 6 FY 28-29	Year 7 FY 29-30	Year 8 FY 30-31	Year 9 FY 31-32	Year 10 FY 32-33	Year 11 FY 33-34	Year 12 FY 34-35	Year 13 FY 35-36	Year 14 FY 36-37	Year 15 FY 37-38	
1	Project No. 1 (23-24 Reconstruction) 1 mile	\$ 1,164,183															
		Construction \$ 1,164,183															
2	Project No. 2 (24-25 Reconstruction) 1.4 miles	\$ 1,305,216															
		Design	Construction \$ 1,305,216														
3	Project No. 3 (2024 Maintenance) 5 miles	\$ 658,223															
		Bid	Construction \$ 658,223														
4	Project No. 4 (25-26 Mission/Arroyo/Pasadena) 0.1 miles	\$ 282,204															
		Design		Construction \$ 282,204 *													
5	2025 Maintenance 11.9 miles	\$ 1,033,203															
			Bid	Construction \$ 1,033,203													
6	2025 Marengo Maintenance & Improvements 1.2 miles	\$ 238,764															
			Design/Bid	Construction \$ 238,764 *													
7	2026 Maintenance 4.9 miles	\$ 328,027															
				Design/Bid	Construction \$ 328,027												
8	Fremont & Huntington Metro Projects 4.6 miles	\$ 6,334,305															
		Preliminary Design	Design	Bid / Construction \$ 4,222,870 *   \$ 2,111,435 *													
9	Mission Maintenance & Slow Street 1.5 miles	\$ 310,679															
		Design		Bid	Construction \$ 310,679 *												
10	Fair Oaks & ITS (Rogan) 3 miles	\$ 2,080,343															
		Preliminary Design	Design	Bid / Construction \$ 1,386,895   \$ 693,448													
11	Orange Zone Reconstruction 4.2 miles	\$ 3,067,076															
			Design / Bid		Construction \$ 3,067,076												
12	Indiana & Pasadena Reconstruction 1.5 miles	\$ 984,494															
				Design / Bid	Construction \$ 984,494												
13	Orange Grove Maintenance 1 miles	\$ 133,460															
				Design/Bid	Construction \$ 133,460												
14	Pasadena & Monterey Maintenance 3 miles	\$ 252,180															
				Design/Bid	Construction \$ 252,180												
15	Garfield/Grevelia & Atlantic Maintenance 1.6 miles	\$ 130,181															
				Design/Bid	Construction \$ 130,181												
16	Pink Zone Reconstruction 3.4 miles	\$ 2,754,927															
				Design / Bid	Construction \$ 2,754,927												
17	East Monterey Reconstruction 0.7 miles	\$ 726,027															
				Design / Bid		Construction \$ 726,027											
18	Purple Zone Reconstruction 4 miles	\$ 3,060,083															
				Design / Bid		Construction \$ 3,060,083											
19	Red Zone Reconstruction 4.1 miles	\$ 3,931,205															
				Design / Bid		Construction \$ 3,931,205											
<b>Begin 7-Year Maintenance Cycle by Zone</b>																	
20	Yellow Zone Reconstruction 2.3 miles	\$ 2,891,303															
				Design / Bid		Construction \$ 2,891,303											
21	Green Zone Reconstruction 3.2 miles	\$ 2,396,363															
				Design / Bid		Construction \$ 2,396,363											
22	Blue Zone Reconstruction 3.3 miles	\$ 2,411,004															
				Design / Bid		Construction \$ 2,411,004											
23	Meridian Reconstruction 1.2 miles	\$ 1,895,705															
				Design / Bid		Construction \$ 1,263,803 *   \$ 631,902 *											
24	Arroyo Reconstruction 1 miles	\$ 5,417,820															
				Design / Bid		Construction \$ 3,611,880   \$ 5,417,820											
Approximately 69 miles Repair Subtotal		\$ 43,786,975	\$ 1,164,183	\$ 1,963,439	\$ 7,163,936	\$ 6,510,665	\$ 4,255,243	\$ 726,027	\$ 3,060,083	\$ 3,931,205	\$ 2,891,303	\$ 2,396,363	\$ 2,411,004	\$ 1,263,803	\$ 631,902	\$ 3,611,880	\$ 5,417,820
										\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	
Repair + New Maintenance Total		\$ 56,198,855	\$ 1,164,183	\$ 1,963,439	\$ 7,163,936	\$ 6,510,665	\$ 4,255,243	\$ 726,027	\$ 3,060,083	\$ 5,031,205	\$ 3,991,303	\$ 3,496,363	\$ 3,511,004	\$ 2,363,803	\$ 1,731,902	\$ 4,711,880	\$ 6,517,820

Project List & Schedule  
Page 70

 = Treatment (e.g. Slurry Seal) Project  
 = Reconstruction / Grind & Overlay Project

# Financial Model

<b>Repair + New Maintenance Total</b>	\$ 56,198,855	\$ 1,164,183	\$ 1,963,439	\$ 7,163,936	\$ 6,510,665	\$ 4,255,243	\$ 726,027	\$ 3,060,083	\$ 5,031,205	\$ 3,991,303	\$ 3,496,363	\$ 3,511,004	\$ 2,363,803	\$ 1,731,902	\$ 4,711,880	\$ 6,517,820
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Funding Configuration (City Fund No.)		FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	FY 32-33	FY 33-34	FY 34-35	FY 35-36	FY 36-37	FY 37-38
Street Improvement (104) / General Fund (101)	[Approx. \$1.4M Annual MOE]	\$ (1,139,183)	\$ (1,660,817)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,291,983)	\$ (1,508,017)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)
RMRA SB1 (237)	[Approx. \$650,000 per year]	\$ -	\$ -	\$ -	\$ (1,685,714)	\$ (1,564,286)	\$ -	\$ (152,066)	\$ (1,797,934)	\$ (650,000)	\$ (650,000)	\$ (650,000)	\$ (650,000)	\$ (650,000)	\$ (650,000)	\$ (650,000)
Measure R Local (233)	[Approx. \$350,000 per year]	\$ -	\$ (302,622)	\$ (453,120)	\$ (644,258)	\$ (350,000)	\$ -	\$ (700,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)
Measure M Local (236)	[Approx. \$350,000 per year]	\$ -	\$ -	\$ (755,742)	\$ (644,258)	\$ (350,000)	\$ -	\$ (700,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)	\$ (350,000)
TDA (245)	[Approx. \$25,000 per year]	\$ (25,000)	\$ -	\$ (50,000)	\$ (25,000)	\$ (25,000)	\$ -	\$ -	\$ (75,000)	\$ (25,000)	\$ (25,000)	\$ (25,000)	\$ (25,000)	\$ (25,000)	\$ (25,000)	\$ (25,000)
Measure M MAT (234)		\$ -	\$ -	\$ (1,583,576)*	\$ (791,788)*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Measure M MIP (243)		\$ -	\$ -	\$ (2,639,294)*	\$ (1,319,647)*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Measure M MSP (240)		\$ -	\$ -	\$ (282,204)*	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

\* Project will implement other transportation infrastructure (additional budget not shown)  
 MOE = Maintenance of Effort, Requirement to spend ~\$1.4M / Yr to receive RMRA SB1 Funds

Outstanding Financial Need [Figure 1]	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
	\$ 7,957,346	\$ -	\$ (0)	\$ 0	\$ 0	\$ 565,957	\$ (565,957)	\$ 0	\$ 1,058,271	\$ 1,216,303	\$ 721,363	\$ 736,004	\$ (411,197)	\$ (1,043,098)	\$ 1,936,880	\$ 3,742,820
						Borrow against Fund for 1 Yr			15-Year program deficit is apparent by year 8							

End-of-the-Year Balances	Received Per	Year														
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Street Improvement (104) / General Fund (101)	[Approx. \$1.4M Annual MOE]	\$ 1,400,000	\$ 260,817	\$ -	\$ -	\$ -	\$ -	\$ 108,017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RMRA SB1 (237)	[Approx. \$650,000 per year]	\$ 650,000	\$ 650,000	\$ 1,300,000	\$ 1,950,000	\$ 914,286	\$ -	\$ 650,000	\$ 1,147,934	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Measure R Local (233)	[Approx. \$350,000 per year]	\$ 350,000	\$ 350,000	\$ 397,378	\$ 294,258	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Measure M Local (236)	[Approx. \$350,000 per year]	\$ 350,000	\$ 350,000	\$ 700,000	\$ 294,258	\$ -	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TDA (245)	[Approx. \$25,000 per year]	\$ 25,000	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

It should be noted that all costs are in 2023 dollars, and as such, Consumer Price Index (CPI) / inflation are not reflected, however, it is expected that Special Revenue Funds will increase over time with CPI / inflation. The General Fund contribution, however, will not increase unless explicitly increased each year by City Council.

Below demonstrates the projected General Fund to Street Improvement Fund need assuming an average CPI / inflation of 4% per year.

	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
Annual General Fund to Street Improvement Fund Need	\$ 28,033,025	\$ 1,400,000	\$ 1,456,000	\$ 1,514,240	\$ 1,574,810	\$ 1,637,802	\$ 1,703,314	\$ 1,771,447	\$ 1,842,305	\$ 1,915,997	\$ 1,992,637	\$ 2,072,342	\$ 2,155,236	\$ 2,241,445	\$ 2,331,103	\$ 2,424,347
Current Annual Contribution	\$ (21,000,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)	\$ (1,400,000)
Annual General Fund to Street Improvement Fund Increase Needed [Figure 2]	\$ 7,033,025	\$ -	\$ 56,000	\$ 114,240	\$ 174,810	\$ 237,802	\$ 303,314	\$ 371,447	\$ 442,305	\$ 515,997	\$ 592,637	\$ 672,342	\$ 755,236	\$ 841,445	\$ 931,103	\$ 1,024,347
<b>Total Need Beyond Current Financing [Figure 1 + Figure 2]</b>	<b>\$ 14,990,371</b>															



# Questions?

## **ITEM 3**

Minutes of the Regular Meeting of the Public Works  
Commission on May 8, 2024





**CITY OF SOUTH PASADENA  
PUBLIC WORKS COMMISSION**

**MINUTES  
REGULAR MEETING  
WEDNESDAY, MAY 8, 2024, AT 6:30 P.M.**

**CALL TO ORDER:**

The Meeting of the South Pasadena Public Works Commission was called to order by Chair Omari Ferguson on Wednesday, May 8, 2024, at 6:33 P.M. in the City Council Chambers, 1424 Mission Street, South Pasadena, California.

**ROLL CALL:**

**PRESENT**

Chair	Omari Ferguson
Commissioner	Ryan Jones
Commissioner	Sam Hernandez
City Council Liaison	Mayor Evelyn G. Zneimer

**ABSENT**

Vice-Chair	Charles Trevino
Commissioner	David Maling

Reyna Salazar-Martin, Management Analyst, announced a quorum.

**CITY STAFF PRESENT:**

H. Ted Gerber, Public Works Director; Michael Vartanians, Principal Engineer; Anteneh Tesfaye, Public Works Deputy Director; Reyna Salazar-Martin, Management Analyst were present at Roll Call.

**PLEDGE OF ALLEGIANCE**

The Flag Salute was led by Chair Ferguson.

**PUBLIC COMMENT**

**1. PUBLIC COMMENT – GENERAL (NON-AGENDA ITEMS)**

Comments Received by Email (posted on website and given to Commission prior to meeting)  
Michael Segal-General Comment-Compliance with AB413

**PRESENTATION****2. COMMISSION ANALYSIS REVISIT**

Presented by Mary Haddad, Management Analyst, City Manager's Office. The Public Works Commission was welcome to submit suggestions on ways to improve our Commissions via the survey emailed to all City Commission Members and/or open the floor at this time for any comments.

Chair Ferguson requested the City consider consolidating Mobility And Transportation Infrastructure Commission (MTIC) and Public Works Commission (PWC) as there are many overlap items presented at both Commissions by Public Works staff. Staff M. Haddad thanked Commissioners for their comments and suggestions and would make sure to note them when analyzing survey results.

Recommendation:  
None

**ACTION/DISCUSSION****3. REVIEW AND APPROVAL OF THE PUBLIC WORKS COMMISSION 2023-24 ANNUAL COMMISSION REPORT AND 2024-25 WORK PLAN PROPOSED DRAFT**

Recommendation:

It is recommended that the Commission approve the Public Works Commission 2023-24 Annual Plan and the 2024-25 Work Plan Proposed Draft

**COMMISSION ACTION AND MOTION**

A motion was made by Chair O. Ferguson seconded by Commissioner S. Hernandez, and approved by roll call vote to approve the Public Works 2023-24 Annual Commission Report and 2024-25 Work Plan Proposal Draft. The motion carried 3-0-0, by the following vote:

**AYES:** Ferguson, Hernandez, Jones  
**NOES:** NONE  
**ABSENT:** Maling, Trevino  
**ABSTAINED:** NONE

**4. APPROVAL OF MINUTES OF MARCH 13, 2024, PUBLIC WORKS COMMISSION REGULAR MEETING**

Recommendation

It is recommended that the Commission review and consider approval of the March 13, 2024 Meeting Minutes.

**COMMISSION ACTION AND MOTION**

A motion was made by Commissioner O. Ferguson, seconded by R. Jones, and approved by roll call vote to approve the March 13, 2024, Public Works Commission Regular Meeting Minutes. The motion carried 3-0-1, by the following vote:

**AYES:** Ferguson, Jones

**NOES:** NONE

**ABSENT:** Maling, Trevino

**ABSTAINED:** Hernandez

**COMMUNICATIONS****5. CITY COUNCIL LIAISON COMMUNICATIONS**

Mayor E. Zneimer commended the Public Works Department on their quick response time and successful joint efforts to address the sewer issue on Fremont Ave. and Huntington Dr. on April 25, 2024. In addition, Mayor Zneimer shared her thoughts on the consolidation of combining all three different Commissions under Public Works.

**6. COMMISSIONER COMMUNICATIONS**

Commissioner S. Hernandez thanked all staff and Council members for attending the South Pasadena Tournament of Roses Fundraiser, and noted it's successful turn out that they would like to have again next year. Also, wanted to commend all who assisted with hosting and coordinating the South Pasadena Eclectic Music Festival that took place April 27, 2024. Commissioner R. Jones commended the City and all who assisted in coordinated on a successful Golden Streets Event.

Chair O. Ferguson suggested future joint meetings with MTIC when they both have overlapping items and presentations. In addition, would like discussion on how to agendize more items, including items brought to the Commissions attention via public comment. Staff H. T. Gerber shared how items are agendized via the City's strategic plan, and can note what items the Commission would like to see agendized in the future.

**7. STAFF LIAISON COMMUNICATIONS**

Staff H.T. Gerber had the following updates and announcements:

Commissioner Congress 6/20/24 6:00pm at The War Memorial Building-Commissions will share their 2023-24 Accomplishments and Future Work Plan for 2024-25, all Commissioners are invited to attend.



**ADJOURNMENT**

There being no further matters, Chair Ferguson adjourned the meeting of the Public Works Commission at 7:36 P.M. to the next Regular Public Works Commission meeting scheduled for July 10, 2024.

Respectfully submitted:

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H. Ted Gerber  
Staff Liaison, Public Works Director

APPROVED:

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Omari Ferguson  
Chair

*Approved at Public Works Commission: July 10, 2024*