

# Carmel Valley Master Plan 2020 5-year Report

Carmel Valley Road Traffic Report  
Required Counts in June and October

County of Monterey  
Board of Supervisors Meeting  
January 26, 2021  
Item # 25

# PRESENTATION OVERVIEW

- ▶ Review of General Plan Policies that require the reporting of the Annual Report
- ▶ Identify the Road Segments that are required to be monitored/timing annually.
- ▶ Discuss Traffic Monitoring Results of Average Daily Traffic Volumes (ADT) and Level of Service (LOS) for 13 segments, and 5-year results

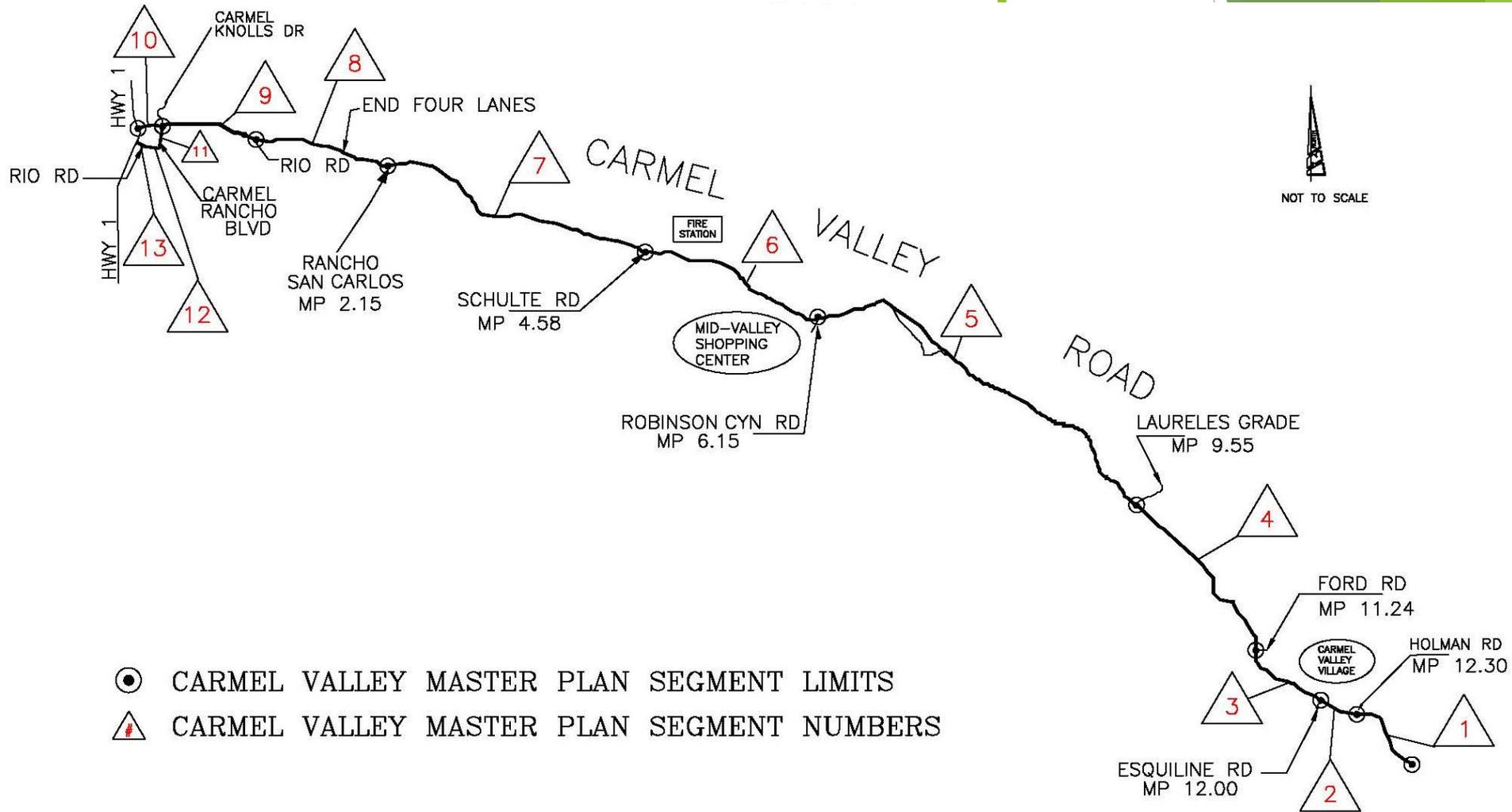
# CVMP Policy CV-2.17

- ▶ Conduct Volume Counts
- ▶ Prepare the CVMP Annual Report
- ▶ Conduct a Public Hearing

# CVMP Policy CV-2.17 for 5-year

- ▶ CV-2.17(d) requires that the County monitor all segments listed in Policy CV-2.17(a) and the annual report include all segments
- ▶ CV-2.17(e) requires the county examine the degree of changes in LOS in the CVMP area that may be occurring earlier than predicted in the General Plan EIR.
- ▶ CV-2.17(f) establishes the acceptable LOS

# Location Map



# Carmel Valley Road 2020 Volumes

	<b>CVMP Threshold</b>	<b>2020 June</b>		<b>2020 October</b>	
	<b>ADT</b>	<b>ADT</b>	<b>Percent of Threshold</b>	<b>ADT</b>	<b>Percent of Threshold</b>
Segment 1	8,487	3,084	-63.7%	2,791	-67.1%
Segment 2	6,835	3,211	-53.0%	2,926	-57.2%
<b>Segment 3</b>	<b>9,065</b>	<b>8,058</b>	<b>-11.1%</b>	<b>7,913</b>	<b>-12.7%</b>
<b>Segment 4</b>	<b>11,600</b>	<b>9,196</b>	<b>-20.7%</b>	<b>9,064</b>	<b>-21.9%</b>
<b>Segment 5</b>	<b>12,752</b>	<b>9,732</b>	<b>-23.7%</b>	<b>9,551</b>	<b>-25.1%</b>
<b>Segment 6</b>	<b>15,499</b>	<b>13,072</b>	<b>-15.7%</b>	<b>13,279</b>	<b>-14.3%</b>
<b>Segment 7</b>	<b>16,340</b>	<b>13,513</b>	<b>-17.3%</b>	<b>13,649</b>	<b>-16.5%</b>
Segment 8	48,487	18,013	-62.8%	18,205	-62.5%
Segment 9	51,401	18,173	-64.6%	18,326	-64.3%
<b>Segment 10</b>	<b>27,839</b>	<b>18,698</b>	<b>-32.8%</b>	<b>18,962</b>	<b>-31.9%</b>
Segment 11	33,495	12,122	-63.8%	12,522	-62.6%
Segment 12	6,416	902	-85.9%	875	-86.4%
Segment 13	33,928	6,965	-79.5%	6,980	-79.4%

# Comparison of Traffic Volumes (ADT) 2019 to 2020

Road Segment	June (school not in session)			October		
	2019	2020	Volume Difference	2019	2020	Volume Difference
3	8,881	8,058	-823	7,852	7,913	61
4	10,714	9,196	-1,518	10,072	9,064	-1,008
5	11,415	9,732	-1,683	10,318	9,551	-767
6	14,335	13,072	-1,263	14,428	13,279	-1,149
7	15,497	13,513	-1,984	14,285	13,649	-636
10	19,380	18,698	-682	19,635	18,962	-673

Note: The (6) Segments shown are required for evaluation. Volumes reported are Daily Traffic volumes.

# Level of Service (PTSF)

**Table 11**  
**PTSF Comparisons**

Segment No.	Road	Segment	LOS Required	PTSF Threshold	June 2020		October 2020	
					Worst-Case PTSF	Difference	Worst-Case PTSF	Difference
1	Carmel Valley Road	East of Holman Road	C	70	54.1	15.9	55.9	14.1
2	Carmel Valley Road	Between Esquiline Road and Holman Road	C	70	55.0	15.0	56.9	13.1
3	<b>Carmel Valley Road</b>	<b>Between Ford Road and Esquiline Road</b>	<b>D</b>	85	<b>69.9</b>	<b>15.1</b>	<b>69.0</b>	<b>16.0</b>
4	<b>Carmel Valley Road</b>	<b>Between Laureles Grade and Ford Road</b>	<b>D</b>	85	<b>75.7</b>	<b>10.3</b>	<b>75.0</b>	<b>10.0</b>
5	<b>Carmel Valley Road</b>	<b>Between Robinson Canyon Road and Laureles Grade</b>	<b>D</b>	85	<b>83.6</b>	<b>1.4</b>	<b>81.3</b>	<b>3.7</b>
6	<b>Carmel Valley Road</b>	<b>Between Schulte Road and Robinson Canyon Road</b>	<b>D</b>	85	<b>81.3</b>	<b>3.7</b>	<b>81.5</b>	<b>3.5</b>
7	<b>Carmel Valley Road</b>	<b>Between Rancho San Carlos Road and Schulte Road</b>	<b>D</b>	85	<b>82.1</b>	<b>2.9</b>	<b>82.6</b>	<b>2.4</b>
8	Carmel Valley Road	Between Rio Road and Rancho San Carlos Road (two-lane portion)	C	70	82.4	-12.4	84.3	-14.3
9	Carmel Valley Road	Between Carmel Rancho Boulevard and Rio Road	C	N/A	N/A	N/A	N/A	N/A
10	<b>Carmel Valley Road</b>	<b>Between SR 1 and Carmel Rancho Boulevard</b>	<b>C</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
11	Carmel Rancho Boulevard	Between Carmel Valley Road and Rio Road	C	N/A	N/A	N/A	N/A	N/A
12	Rio Road	Between Carmel Rancho Boulevard and Val Verde Drive	C	70	35.9	34.1	35.4	34.6
13	Rio Road	Between SR 1 and Carmel Rancho Boulevard	C	N/A	N/A	N/A	N/A	N/A

Bold type indicates road segments currently included in the annual monitoring report.

N/A: Not applicable. PTSF methodology is not applicable to multi-lane roadways.

# Level of Service (PTSF)

Segment	2020 June Data		2020 October Data		Acceptable LOS (Per CVMP)
	PTSF	LOS	PTSF	LOS	
3	69.9%	C	69.0%	C	D
4	75.7%	D	75.0%	D	D
<b>5</b>	83.6%	D	81.3%	D	<b>D</b>
6	81.3%	D	81.5%	D	D
<b>7</b>	82.1%	D	82.6%	D	<b>D</b>

# Intersections

**Table 8**  
**Intersection LOS and Peak-Hour Warrant Summary – June 2020**

Intersection	Control	A.M. Peak Hour			P.M. Peak Hour		
		Delay (sec)	LOS	Warrant	Delay (sec)	LOS	Warrant
SR 1 / Carmel Valley	Signals	4.7	A		6.8	A	
Carmel Rancho Blvd / Carmel Valley	Signals	15.4	B		20.5	C	
Rio Vista Drive / Carmel Valley	One-way stop	16.6	C	Not met	19.5	C	Not met
Carmel Middle School / Carmel Valley	Signals	7.5	A		7.0	A	
Rio / Carmel Valley	One-way stop	19.0	C	Not met	29.4	D	Not met
Via Mallorca / Carmel Valley	Signals	2.1	A		2.2	A	
Rancho San Carlos / Carmel Valley	Signals	2.7	A		2.7	A	
Schulte / Carmel Valley	One-way stop	17.6	C	Not met	25.6	D	Not met
Robinson Canyon / Carmel Valley	Yield	9.8	A	Not met	12.9	B	Not met
Robinson Canyon / Carmel Valley off ramp	One-way stop	8.7	A	Not met	8.8	A	Not met
Laureles Grade / Carmel Valley	One-way stop*	20.9	C		<b>52.2</b>	<b>F</b>	
Ford / Carmel Valley	One-way stop	11.1	B	Not met	11.4	B	Not met
Esquiline / Carmel Valley	One-way stop	11.1	B	Not met	11.8	B	Not met
Holman / Carmel Valley	One-way stop	9.9	A	Not met	9.7	A	Not met
SR 1 / Rio Road	Signals	17.1	B		21.3	C	
Crossroads Blvd / Rio Road	Signals	5.2	A		5.4	A	
Carmel Rancho Blvd / Rio Road	Two-way stop	12.5	B	Not met	16.2	C	Not met

\* Peak-hour warrants not analyzed - roundabout planned.

# Intersections

**Table 9**  
**Intersection LOS and Peak-Hour Warrant Summary – October 2020**

Intersection	Control	A.M. Peak Hour			P.M. Peak Hour		
		Delay (sec)	LOS	Warrant	Delay (sec)	LOS	Warrant
SR 1 / Carmel Valley	Signals	4.8	A		7.0	A	
Carmel Rancho Blvd / Carmel Valley	Signals	16.2	B		19.7	B	
Rio Vista Drive / Carmel Valley	One-way stop	18.0	C	Not met	21.5	C	Not met
Carmel Middle School / Carmel Valley	Signals	7.4	A		11.7	B	
Rio / Carmel Valley	One-way stop	23.1	C	Not met	29.4	D	Not met
Via Mallorca / Carmel Valley	Signals	6.7	A		6.7	A	
Rancho San Carlos / Carmel Valley	Signals	7.4	A		7.8	A	
Schulte / Carmel Valley	One-way stop	20.4	C	Not met	29.0	D	Not met
Robinson Canyon / Carmel Valley	Yield	10.1	A	Not met	13.0	B	Not met
Robinson Canyon / Carmel Valley off ramp	One-way stop	8.9	A	Not met	8.9	A	Not met
Laureles Grade / Carmel Valley	One-way stop*	19.8	C		<b>51.0</b>	<b>F</b>	
Ford / Carmel Valley	One-way stop	11.2	B	Not met	11.7	B	Not met
Esquiline / Carmel Valley	One-way stop	11.8	B	Not met	11.9	B	Not met
Holman / Carmel Valley	One-way stop	9.6	A	Not met	9.5	A	Not met
SR 1 / Rio Road	Signals	16.5	B		21.8	C	
Crossroads Blvd / Rio Road	Signals	9.9	A		11.2	B	
Carmel Rancho Blvd / Rio Road	Two-way stop	11.5	B	Not met	11.9	B	Not met

\* Peak-hour warrants not analyzed - roundabout planned.

# 5-Year Traffic Volumes

**Table 12**  
**Volume and LOS Comparison**

No.	Road	Segment	2008		2015+		2020				General Plan (Cumulative)	
			ADT*	LOS*	June	October	June		October		ADT	LOS
					ADT	ADT	ADT	LOS	ADT	LOS		
1	Carmel Valley Road	East of Holman Road	3,235	A	3,128	3,048	3,084	B	2,791	C	10,400	D
2	Carmel Valley Road	Between Esquiline Road and Holman Road	3,673	A	3,536	3,436	3,211	B	2,926	C	6,100	D
3	<b>Carmel Valley Road</b>	<b>Between Ford Road and Esquiline Road</b>	<b>10,816</b>	<b>B/C</b>	<b>8,216</b>	<b>8,206</b>	<b>8,058</b>	<b>C</b>	<b>7,913</b>	<b>C</b>	<b>13,200</b>	<b>F</b>
4	Carmel Valley Road	Between Laureles Grade and Ford Road	-	C	10,740	11,061	9,196	D	9,064	D	22,600	F
5	Carmel Valley Road	Between Robinson Canyon Road and Laureles Grade	11,521	C/D	11,015	11,364	9,732	D	9,551	D	27,400	F
6	Carmel Valley Road	Between Schulte Road and Robinson Canyon Road	14,163	D	14,255	14,400	13,072	D	13,279	D	33,200	F
7	Carmel Valley Road	Between Rancho San Carlos Road and Schulte Road	15,984	D	14,642	16,067	13,513	D	13,649	D	36,600	F
8	Carmel Valley Road	Between Rio Road and Rancho San Carlos Road	19,655	A	19,076	19,117	18,013	D**	18,205	D**	35,800	F
9	Carmel Valley Road	Between Carmel Rancho Boulevard and Rio Road	24,655	A/B	23,941	24,767	18,173	A	18,326	A	41,800	F
10	<b>Carmel Valley Road</b>	<b>Between SR 1 and Carmel Rancho Boulevard</b>	<b>23,160</b>	<b>A/B</b>	<b>22,413</b>	<b>22,510</b>	<b>18,698</b>	<b>A</b>	<b>18,962</b>	<b>A</b>	<b>40,200</b>	<b>F</b>
11	Carmel Rancho Boulevard	Between Carmel Valley Road and Rio Road	11,015	-	10,076	9,728	12,122	A	12,522	A	18,600	D
12	Rio Road	Between Carmel Rancho Boulevard and Val Verde Drive	-	-	658	702	902	A	875	A	-	-
13	Rio Road	Between SR 1 and Carmel Rancho Boulevard	12,270	-	11,528	11,437	6,965	A	6,980	A	18,100	D

Bold type indicates road segments currently included in the annual monitoring report.

+ 2015 LOS not available

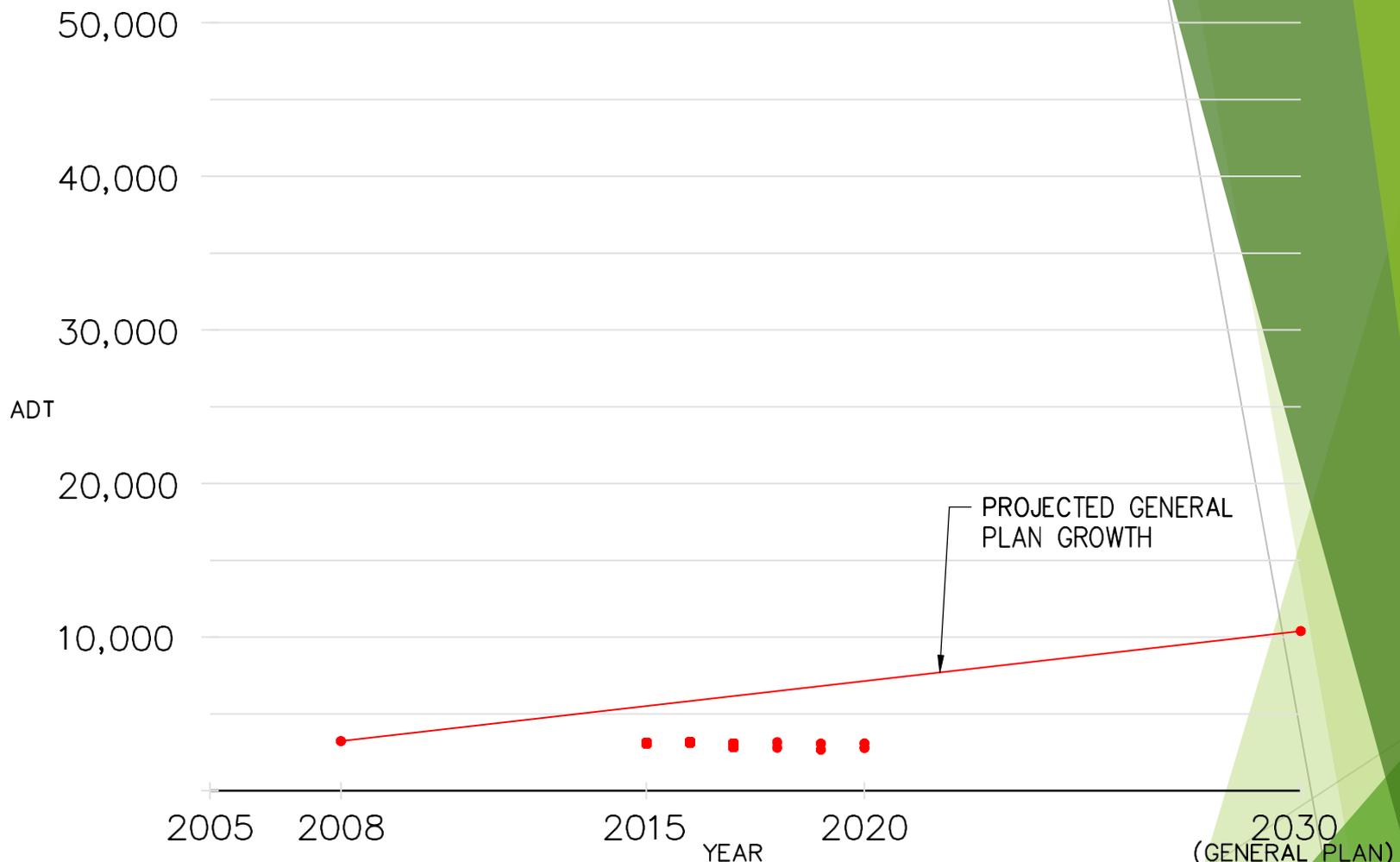
\* 2008 ADT from 2008 CVMP Volume Report; 2008 ADT from General Plan EIR baseline.

\*\* 2020 LOS is for the two-lane portion of Segment 8. The four-lane portion is operating at LOS A.

# Projected Growth

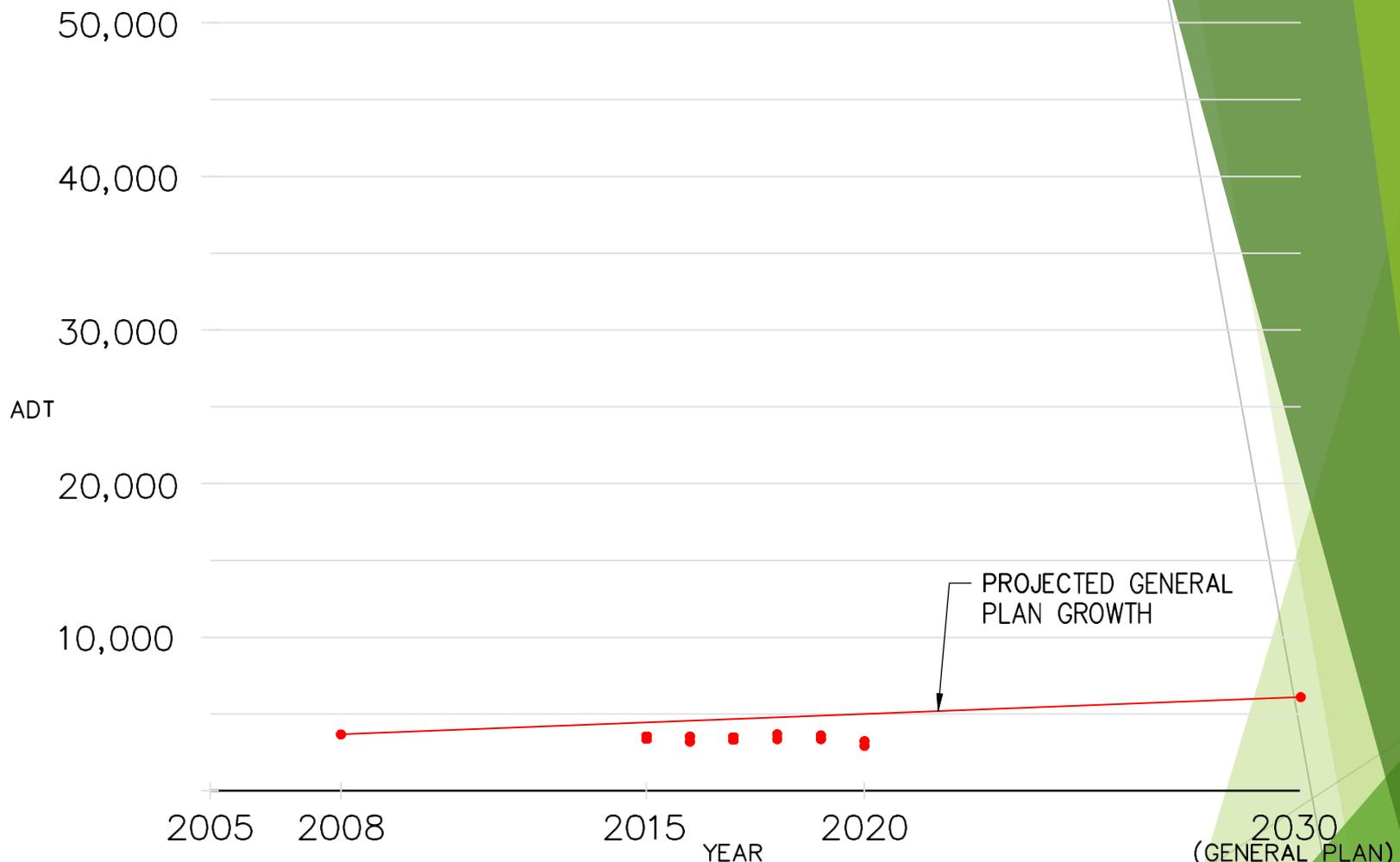
- Traffic Volume (by segment)





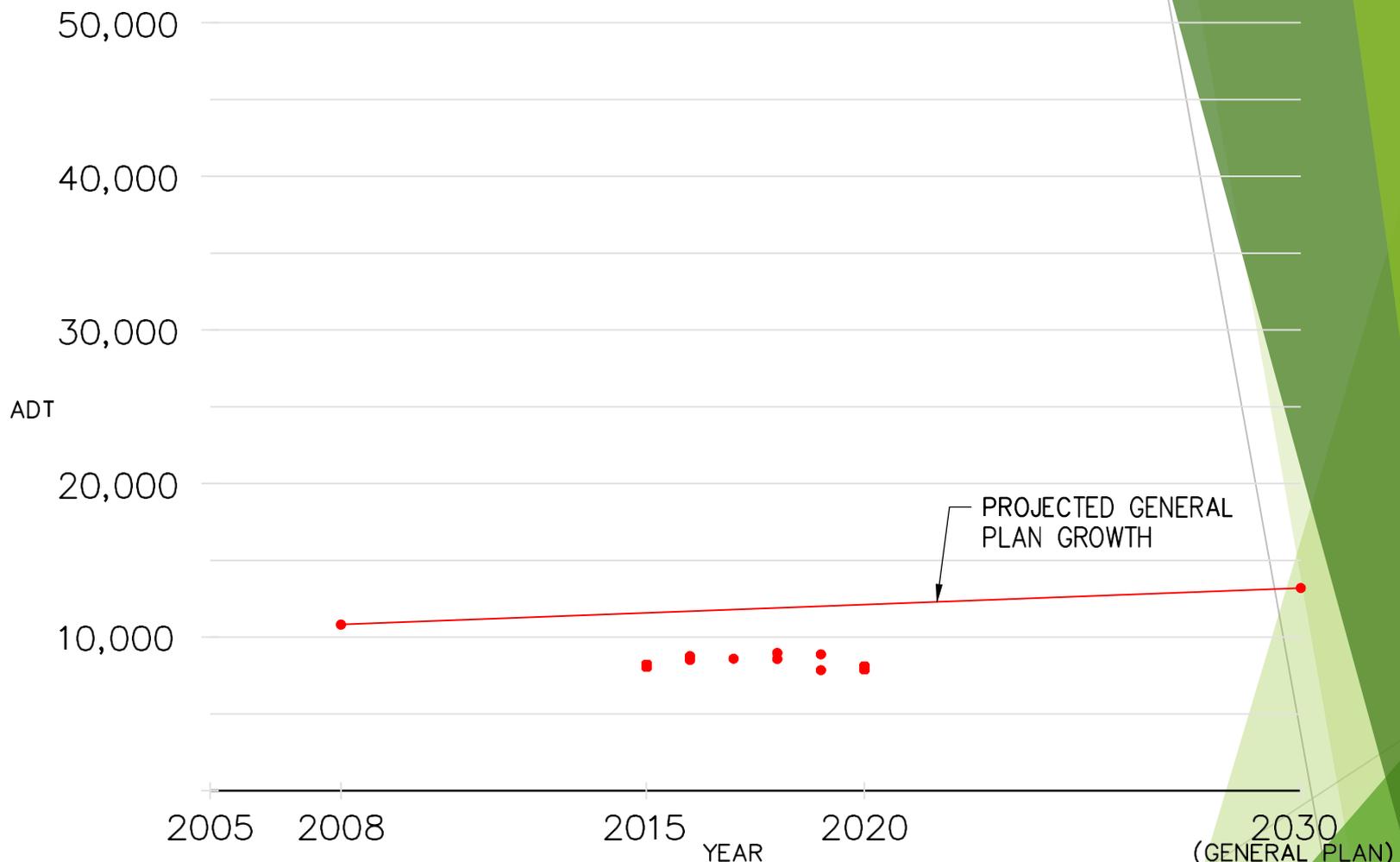
CARMEL VALLEY ROAD  
 SEGMENT 1 - EAST OF HOLMAN ROAD  
 MONTEREY COUNTY, CA

Figure 6



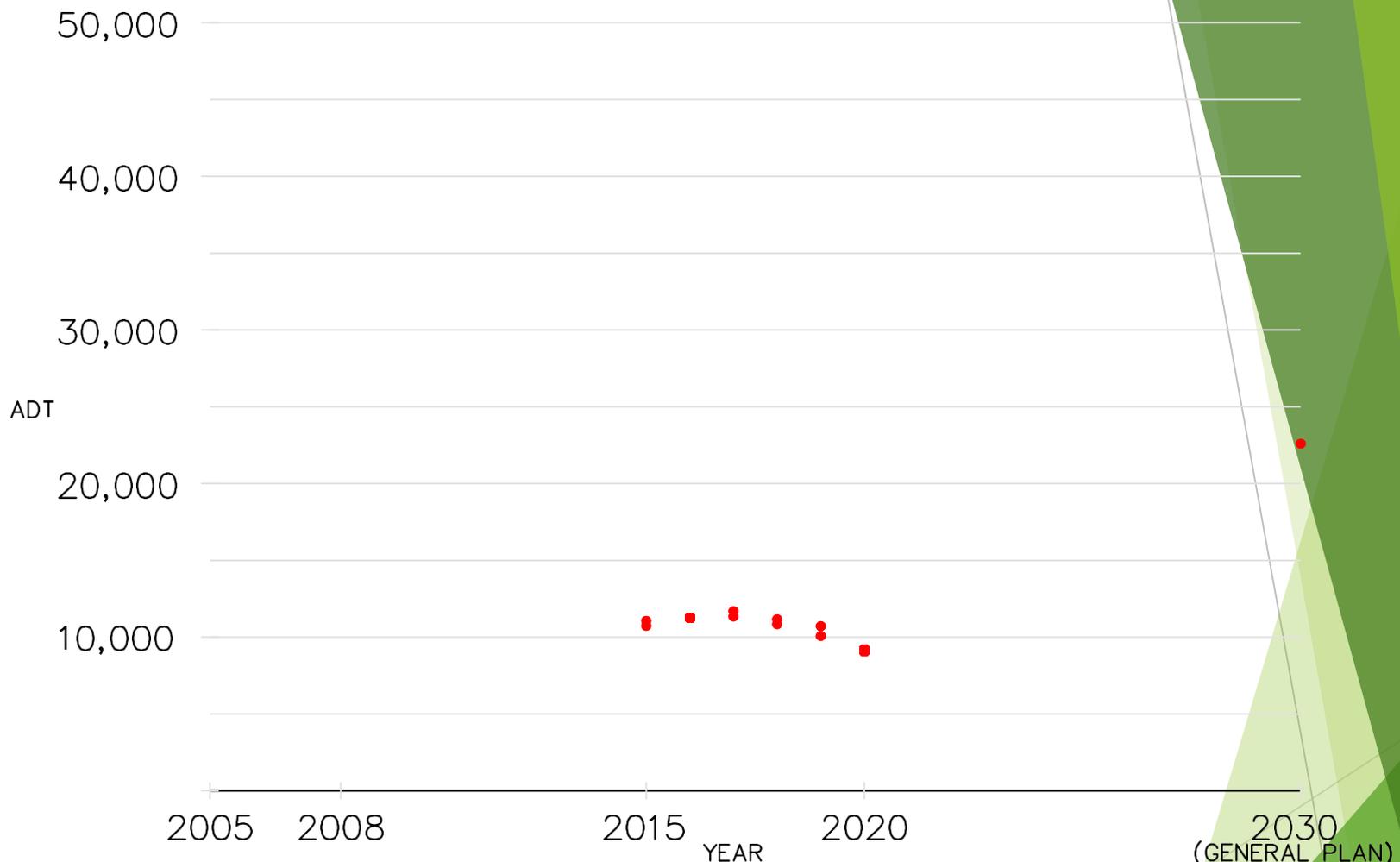
CARMEL VALLEY ROAD  
SEGMENT 2 - BETWEEN ESQUILINE ROAD AND HOLMAN ROAD  
MONTEREY COUNTY, CA

Figure 7



CARMEL VALLEY ROAD  
 SEGMENT 3 - BETWEEN FORD ROAD AND ESQUILINE ROAD  
 MONTEREY COUNTY, CA

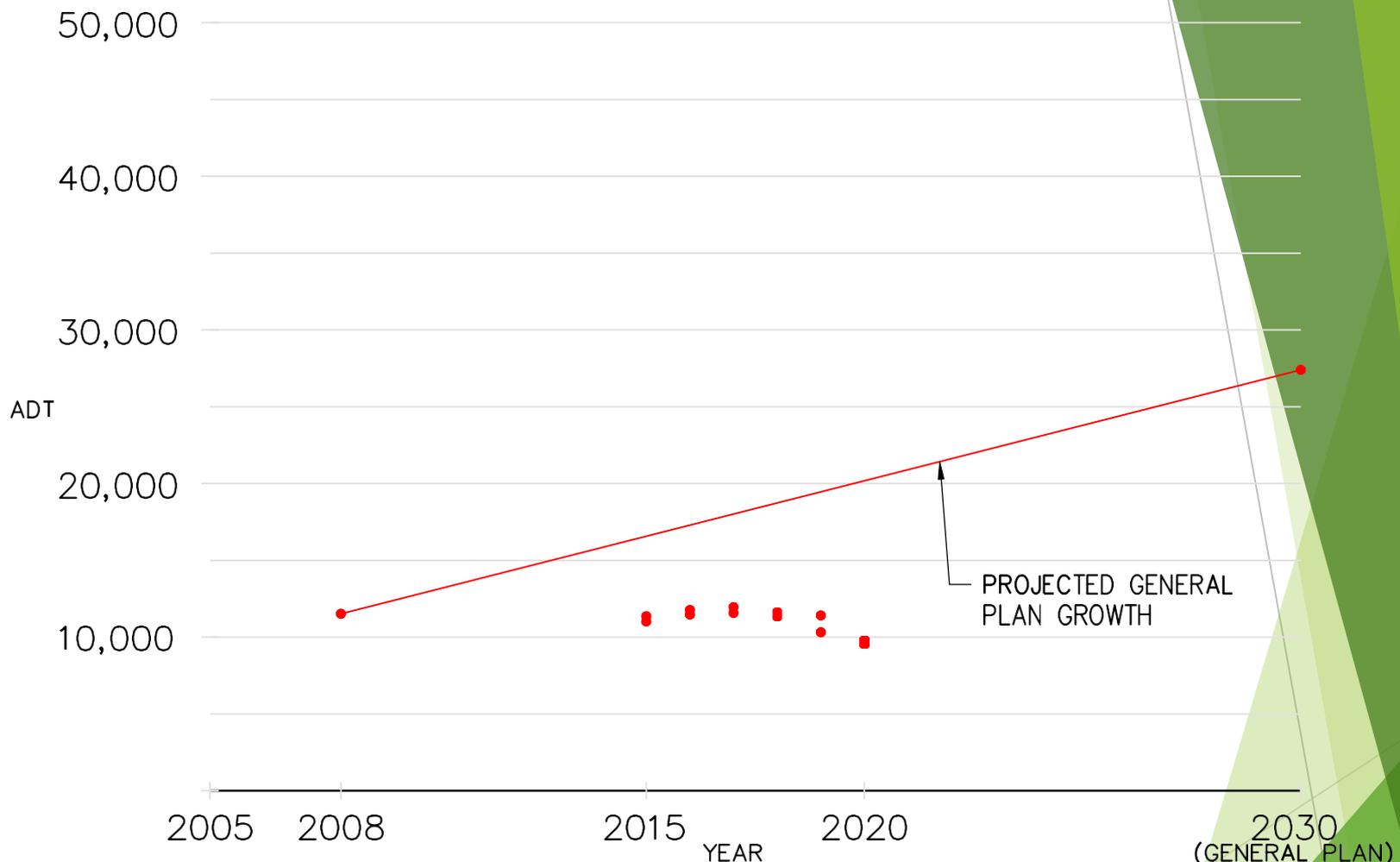
Figure 8



CARMEL VALLEY ROAD  
 SEGMENT 4 - BETWEEN LAURELES GRADE AND FORD ROAD  
 MONTEREY COUNTY, CA

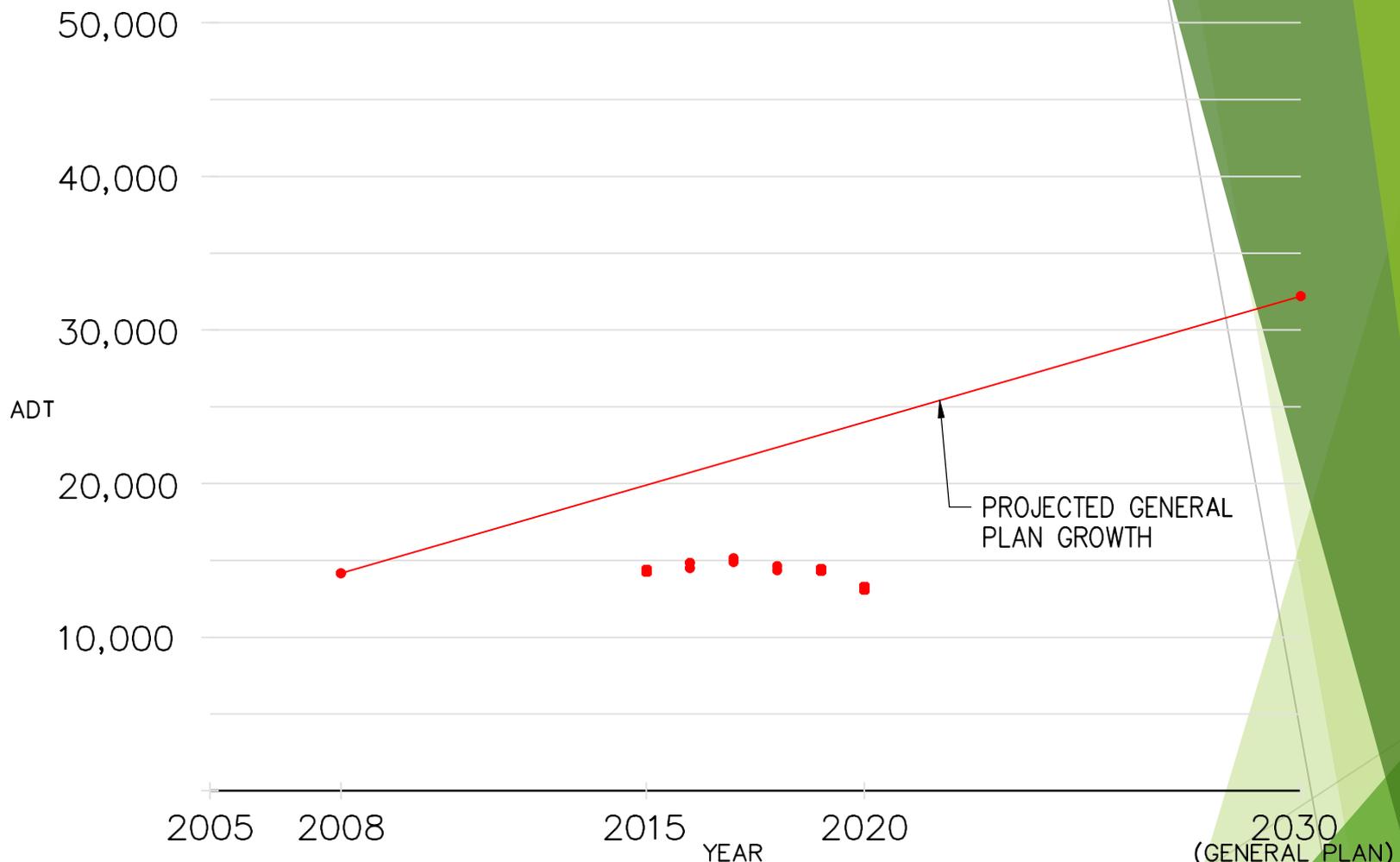
NOTE: 2008 DATA NOT AVAILABLE

Figure 9



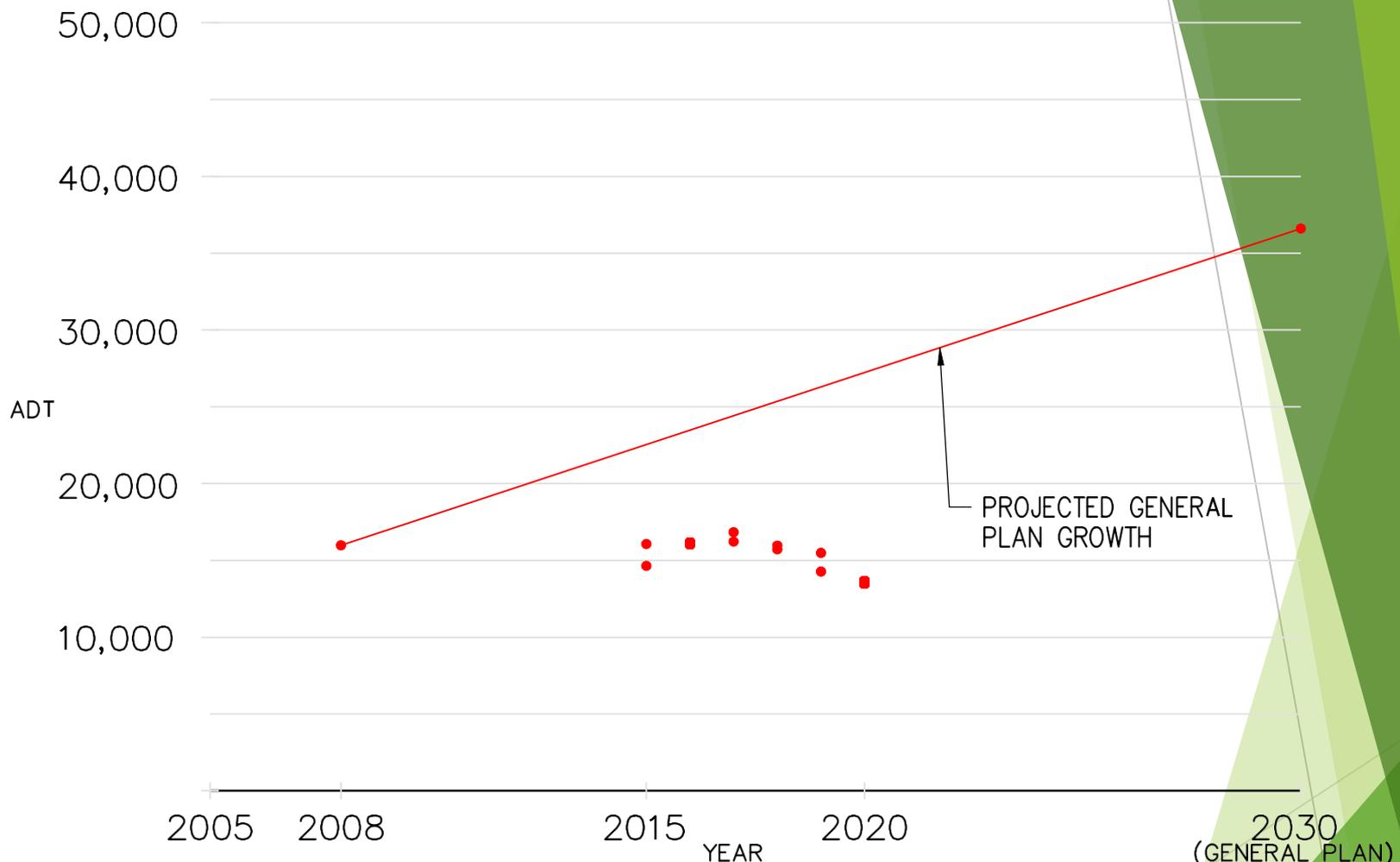
CARMEL VALLEY ROAD  
SEGMENT 5 - BETWEEN ROBINSON CANYON ROAD AND LAURELES GRADE  
MONTEREY COUNTY, CA

Figure 10



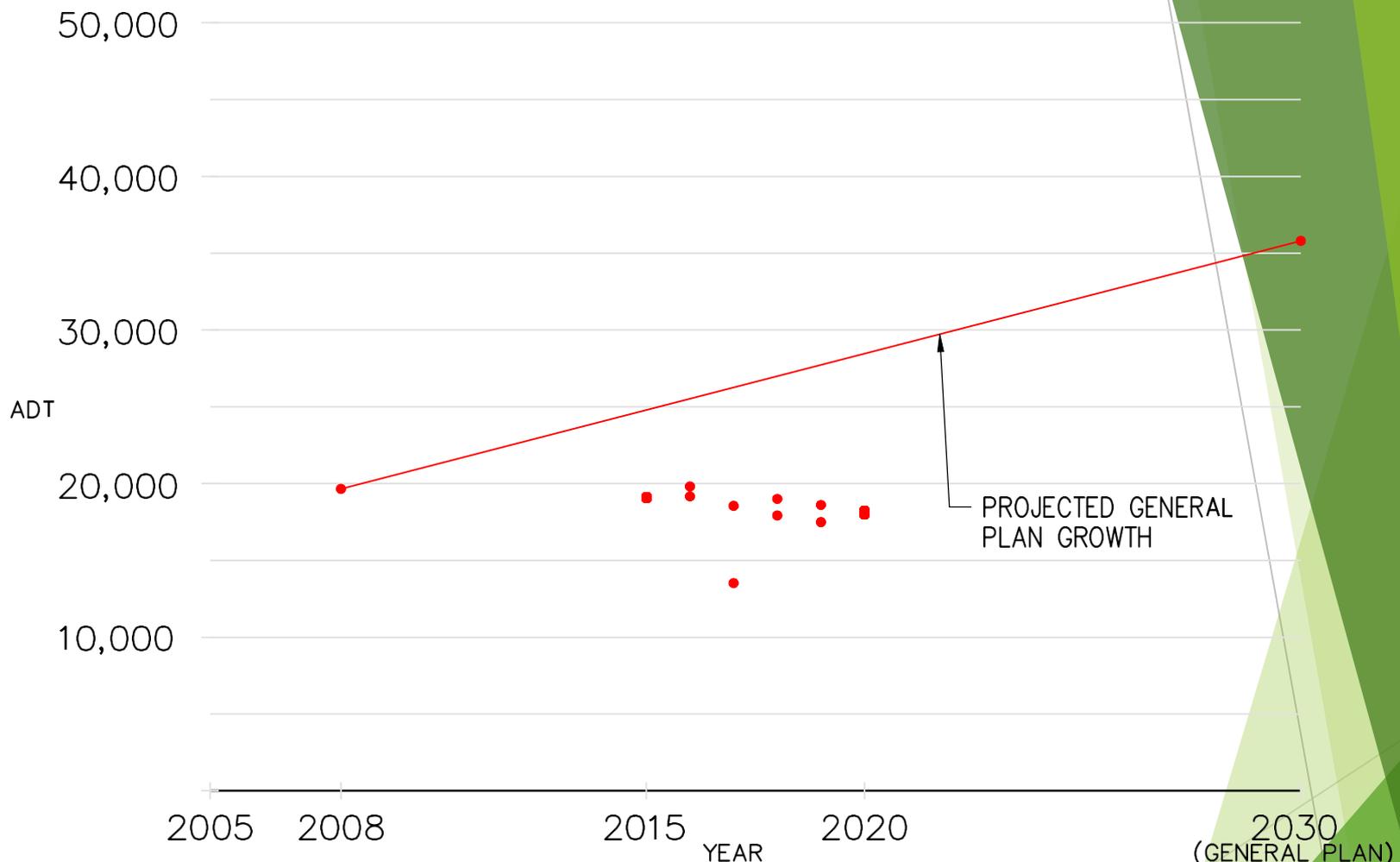
CARMEL VALLEY ROAD  
 SEGMENT 6 - BETWEEN SCHULTE ROAD AND ROBINSON CANYON ROAD  
 MONTEREY COUNTY, CA

Figure 11



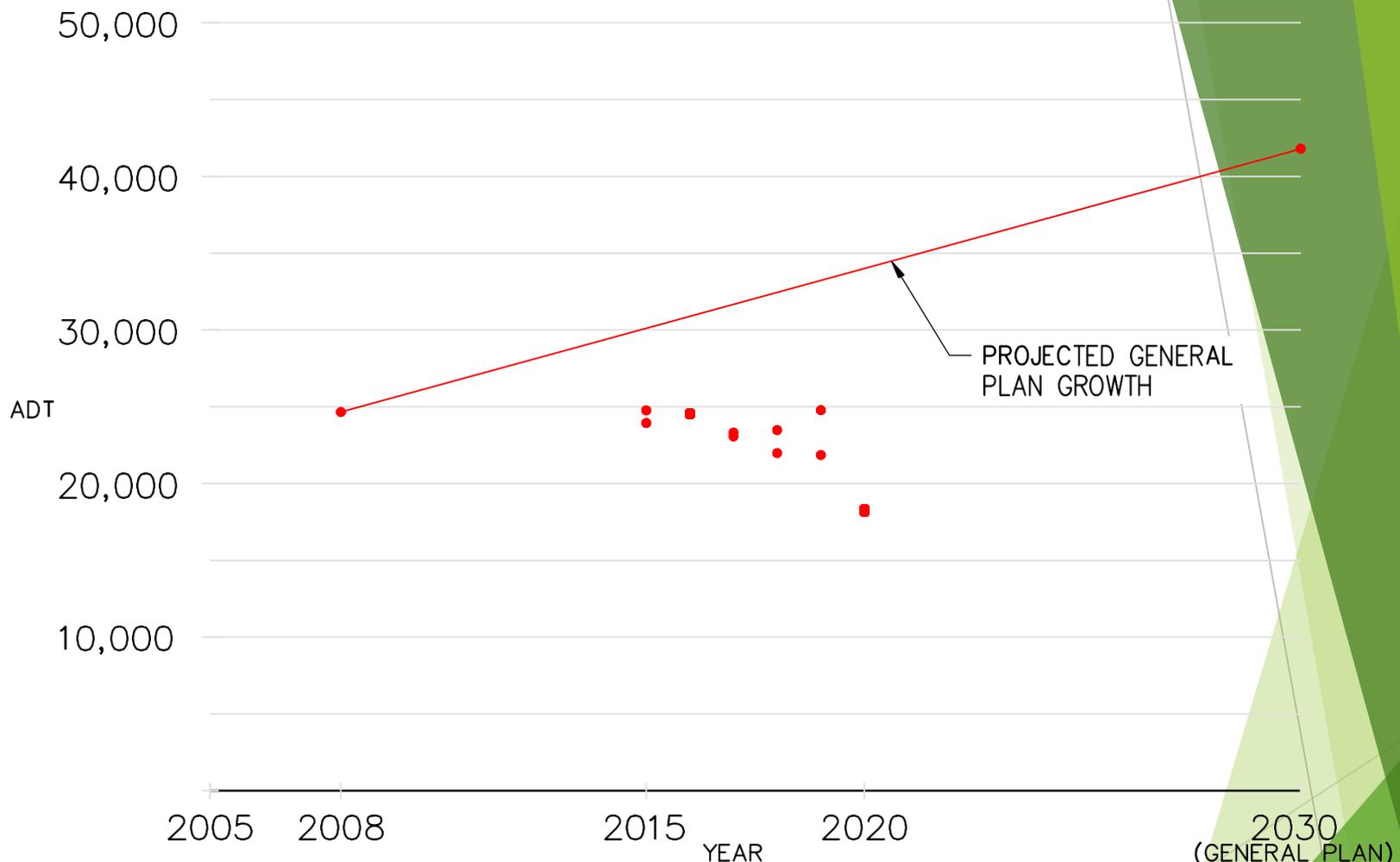
CARMEL VALLEY ROAD  
SEGMENT 7 - BETWEEN RANCHO SAN CARLOS ROAD AND SCHULTE ROAD  
MONTEREY COUNTY, CA

Figure 12



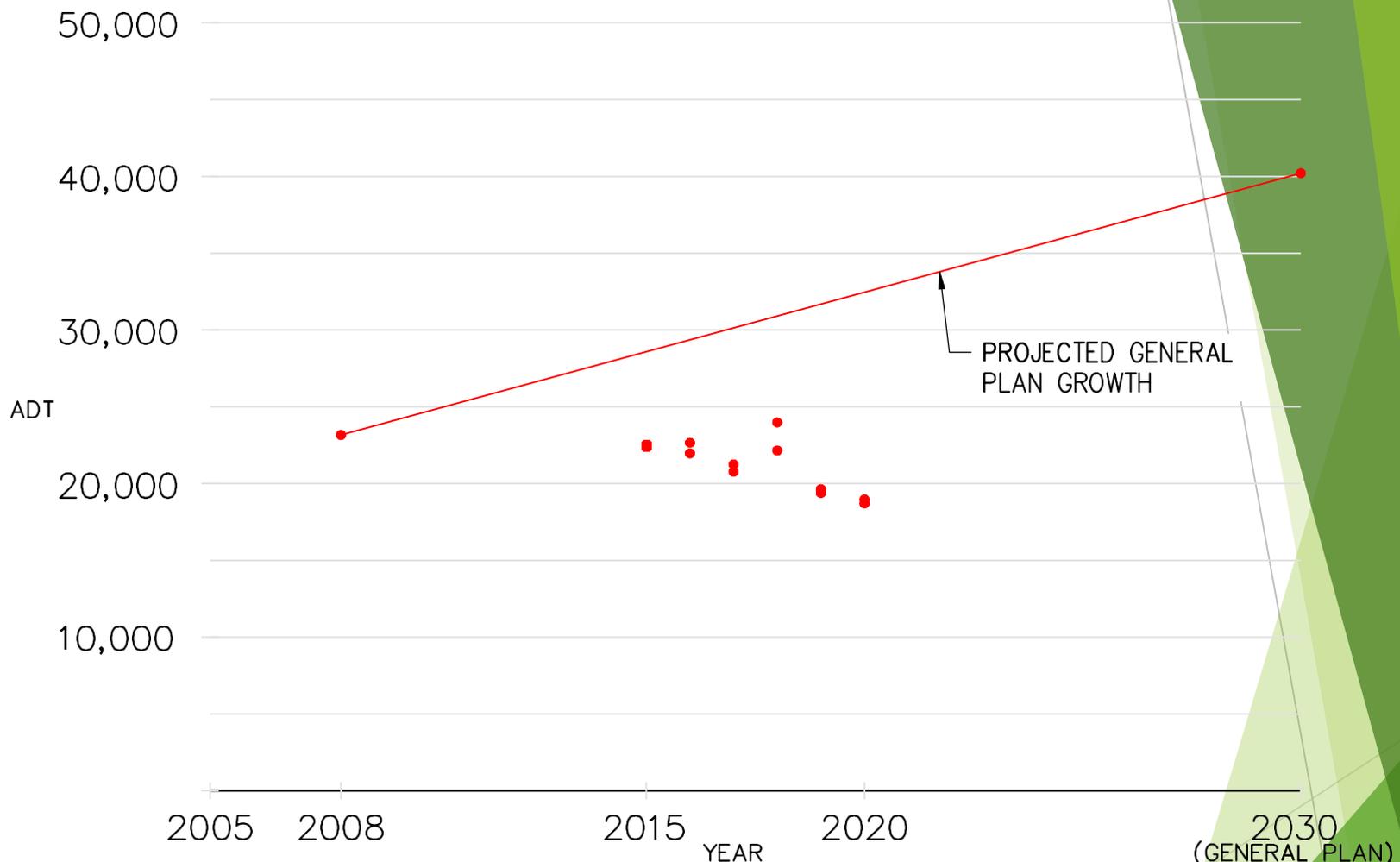
CARMEL VALLEY ROAD  
 SEGMENT 8 - BETWEEN RIO ROAD AND RANCHO SAN CARLOS ROAD  
 MONTEREY COUNTY, CA

Figure 13

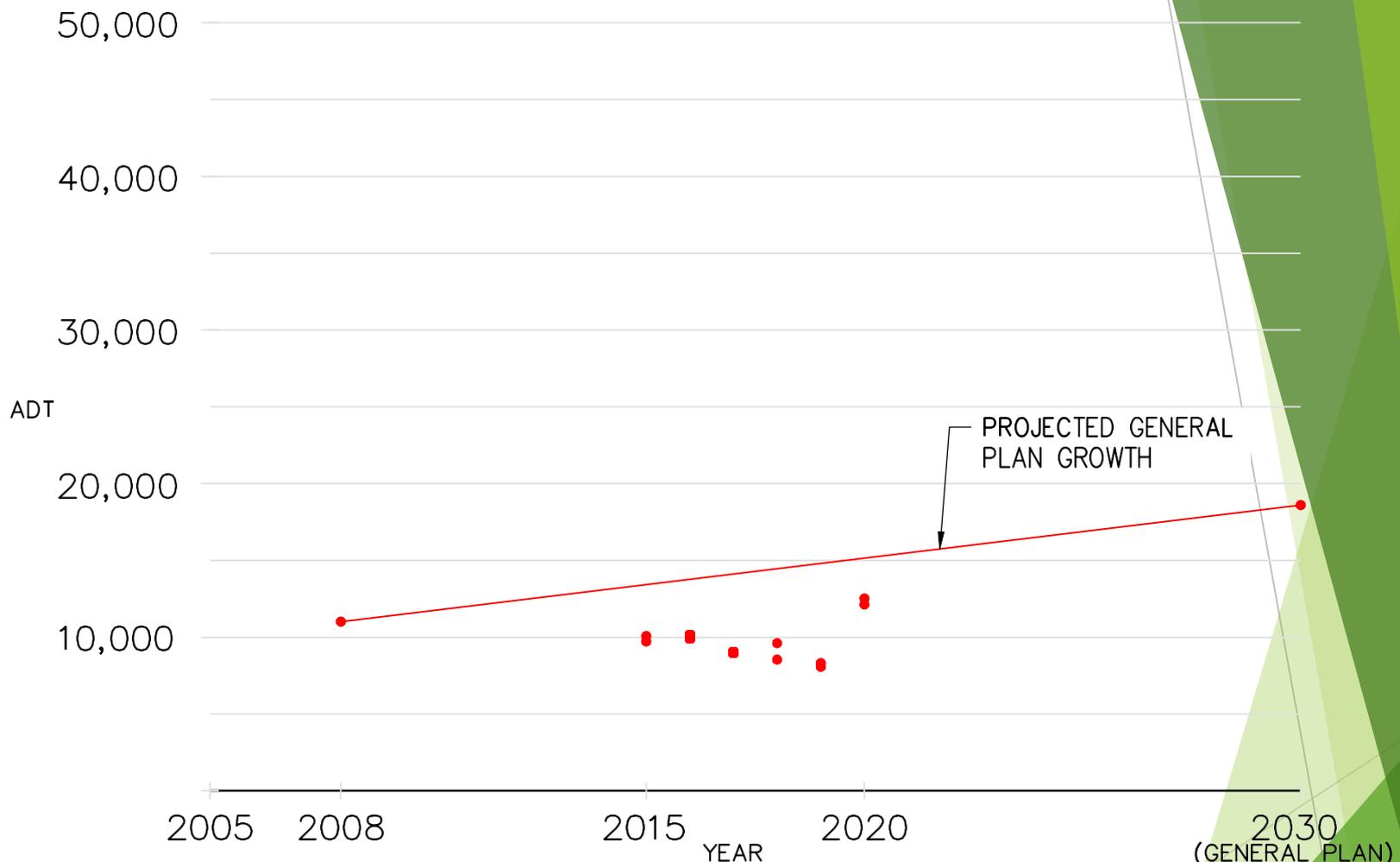


CARMEL VALLEY ROAD  
 SEGMENT 9 - BETWEEN CARMEL RANCHO BOULEVARD AND RIO ROAD  
 MONTEREY COUNTY, CA

Figure 14

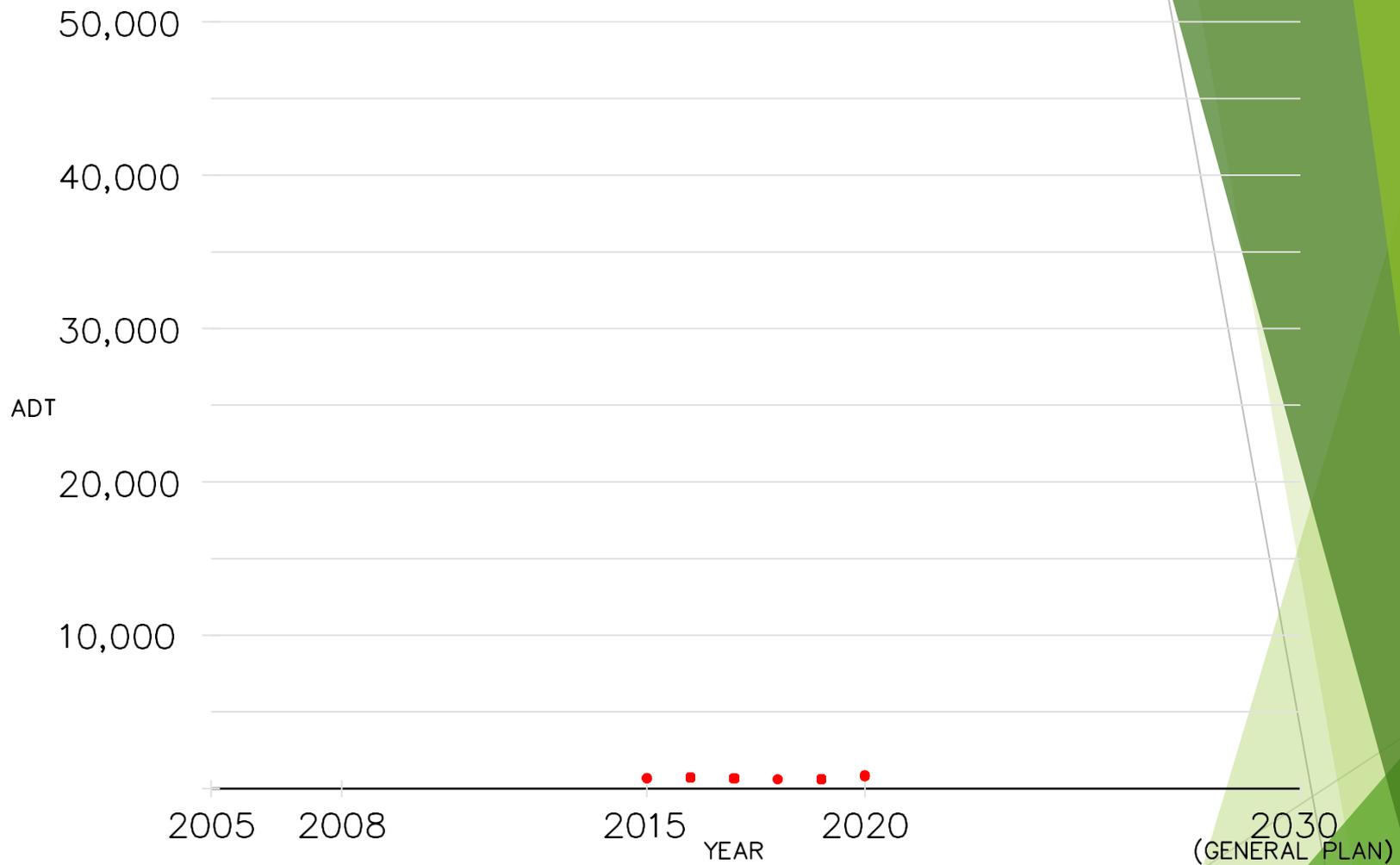


CARMEL VALLEY ROAD  
 SEGMENT 10 - BETWEEN SR 1 AND CARMEL RANCHO BOULEVARD  
 MONTEREY COUNTY, CA



CARMEL RANCHO BOULEVARD  
 SEGMENT 11 - BETWEEN CARMEL VALLEY ROAD AND RIO ROAD  
 MONTEREY COUNTY, CA

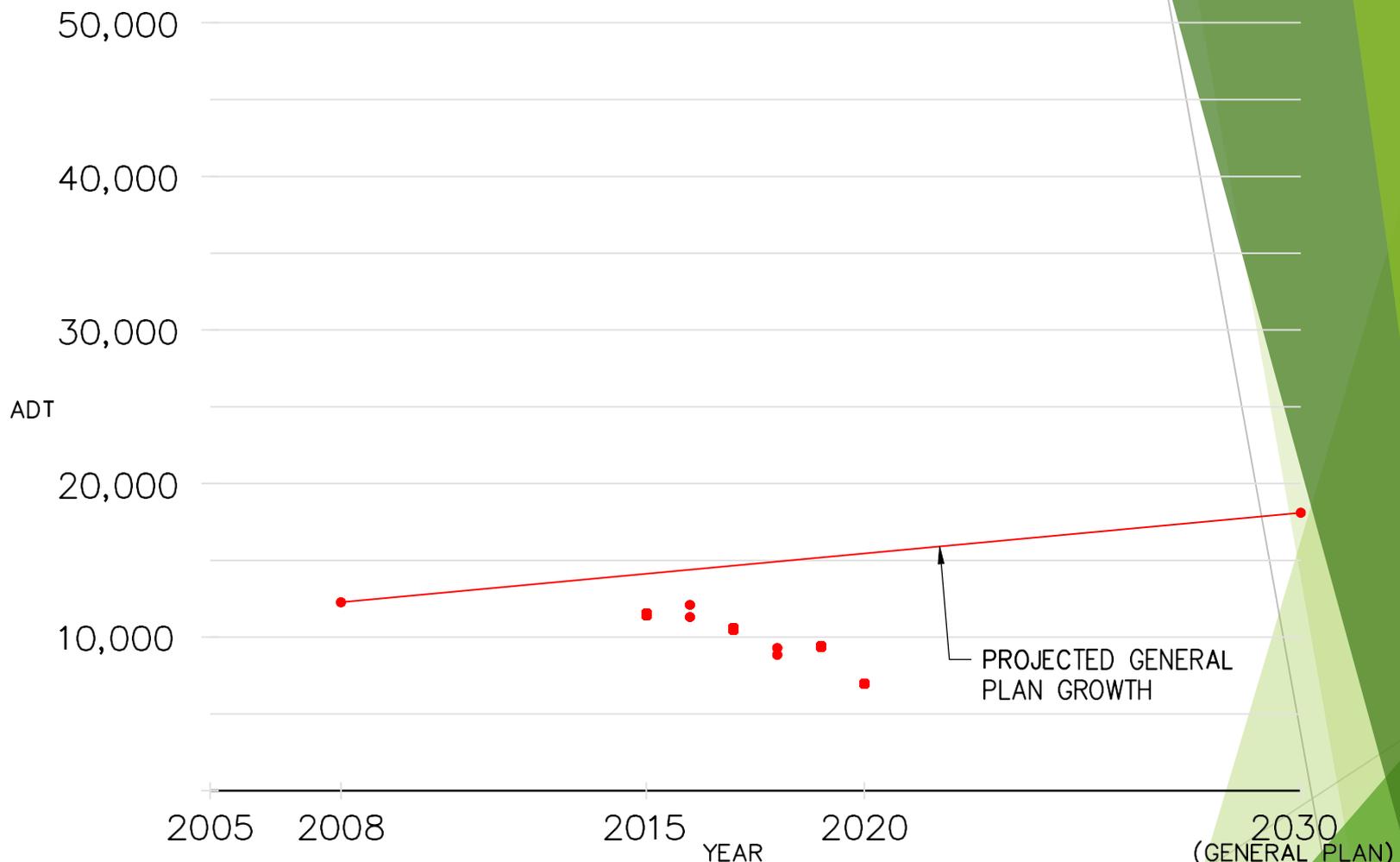
Figure 16



RIO ROAD  
 SEGMENT 12 - BETWEEN CARMEL RANCHO BOULEVARD AND VAL VERDE DRIVE  
 MONTEREY COUNTY, CA

NOTE: 2008 AND GENERAL PLAN DATA NOT AVAILABLE

Figure 17



RIO ROAD  
SEGMENT 13 - BETWEEN SR 1 AND CARMEL RANCHO BOULEVARD  
MONTEREY COUNTY, CA

Figure 18

# CARMEL VALLEY ROAD ADVISORY COMMITTEE

- Presented to CVRAC on December 17, 2020
- Feedback Received:
  - Tremendous, clear, concise presentation, great data.
  - Three intersections not on tables - CVR at Valley Greens Drive, Dorris Drive, and Boronda Road.
  - Can we collect and report data on accidents and wait times?
  - Concerns with long-term projections with the dip in data from COVID-19 this year.
  - Is there data on tourism growth?
  - Is there cell phone usage data available for vehicles going through the valley?
  - Can the data be charted against an aging population?
  - Chart vehicles by segment?
  - Data seems high for Segments 8 & 9.
  - Does the data reflect increased volume of people going to the parks?
  - Can we project when LOS F occurs - concerns in lag in responding to traffic, solutions need to be put in effect before reaching that level.
  - Need to look beyond the [General Plan 2030] horizon.

# SUMMARY

- No road segments exceed the thresholds for traffic volume.
- No road segments exceed the thresholds for PTSF.
- All of study intersections operating at, or better than, specified LOS.
- Traffic signal warrants not met at study unsignalized intersections.
- None of the 5-year monitoring segments exceed criteria.

# Unit Caps

## Carmel Valley Tracking

	Buildout as of 2015	2016	2017	2018	2019	2020	Total Units Subtracted	Has Threshold Been Reached?
<b>Carmel Valley Residential Subdivision Cap</b>								
New SFD Lots Created by Subdivision	--	126		0	0	0	126	--
2 <sup>nd</sup> SFD on Single Lot	--						0	--
Apartment Units (not counting 1 <sup>st</sup> unit)	--	1			0		1	--
							<b>Units Remaining</b>	
TOTAL ALLOTMENT	161	127	0	0	0	0	34	No
<b>Carmel Valley Visitor Accommodation Units</b>								
West of Via Mallorca and north of Carmel River	175	0		0	0		175	Yes
East of Via Mallorca including Carmel Valley Ranch	57	0			6	1	50	No

Questions or Comments?

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the right side of the slide, creating a modern, layered effect. The rest of the slide is a plain white background.