



SPEED ZONE SURVEY

ROYAL OAKS DRIVE

(No. 2800)

From Latrobe Road (No. 18) to Blackstone Parkway (No. 2797)

Reviewed by the Traffic Advisory Committee on JAN 31 2019

COMMITTEE APPROVED STAFF'S RECOMMENDATION.

COMMITTEE REQUESTED FURTHER ACTION.

Action APPROVED

DEPARTMENT OF TRANSPORTATION
ENGINEERING AND TRAFFIC SURVEY

Location: From Latrobe Road (No. 18) to Blackstone Parkway (No. 2797)

Subject: Speed Zone Survey

Date: December 6, 2018

2018 ENGINEERING AND TRAFFIC SURVEY FOR SPEED LIMITS

REQUEST REFERENCE:

It is the intent of this study to conduct a speed zone survey along Royal Oaks Drive from Latrobe Road to Blackstone Parkway in the vicinity of the Blackstone Community. This will determine an appropriate and effective speed zone, per the petition request dated May 7, 2018 signed by twenty-eight (28) Blackstone Community residents.

The section of roadway is limited to reviewing the speed of vehicles on Royal Oaks Drive from Latrobe Road to the Blackstone Parkway intersection with Royal Oaks Drive (milepost 0.00 to milepost 0.86) and providing recommendations intended to improve safety along this portion. Royal Oaks Drive runs in a North/South direction from Latrobe Road MP 0.00 to a point 580 feet north of Blackstone Parkway MP 0.97 adjacent to Valley View Elementary School.

1. INTRODUCTION

The California Vehicle Code, Section 22358, allows local authorities to establish speed limits based on an “Engineering and Traffic Survey”. The Vehicle Code goes on, in Section 40801 to prohibit the use of “speed traps” for the purpose of speed enforcement and, in Section 40802, defines “speed trap”. Section 40802 also indicates that an “Engineering and Traffic Survey” is required where speed enforcement involves the use of radar and establishes the frequency with which surveys must be conducted for continued radar enforcement. In order to comply with the provisions of the Vehicle Code, and insure that radar enforced speed zones are based on recent data, County of El Dorado has established a practice of conducting engineering and traffic survey updates based on a cycle length of five (5) years or less.

In Section 627 the Vehicle Code provides a definition for “Engineering and Traffic Survey”, and states that an “Engineering and Traffic Survey” shall include:

1. Prevailing speeds as determined by traffic engineering measurements.
2. Accident records.
3. Highway, traffic, and roadside conditions not readily apparent to the driver.

In addition, the 2001 edition of the Vehicle Code added that residential density, pedestrian, and bicycle safety may be considered.

While the California Vehicle Code is silent regarding the relationship of the 85th percentile speed to the posted speed, the California Manual on Uniform Traffic Control Devices (CAMUTCD), Section 2B.13, “Speed Limit Sign”, “Engineering and Traffic Survey”, states in part:

“When a speed limit is to be posted, it shall be established at the nearest 5mph increment of the 85th percentile speed of free-flowing traffic, . . . [except] the posted speed may be reduced by 5 mph from the nearest 5 mph increment of the 85th percentile speed . . .”

Section 2B.13 further states in part:

“If the speed limit to be posted has had the 5 mph reduction applied, then an E&TS shall document in writing the conditions and justification for the lower speed limit and be approved by a registered Civil or Traffic Engineer. The reasons for the lower speed limit shall be in compliance with CVC Sections 627 and 22358.5.

All “Engineering and Traffic Surveys “performed by the El Dorado County Department of Transportation for establishing speed limits, stop controlled intersections, crosswalks, painted traffic curbs, regulatory traffic signage, and other traffic control devices, use the current publications of the California Vehicle Code, CAMUTCD, California Manual for Setting Speed Limits, applicable County Ordinance Code, and other Civil Engineering publications and California Codes pertaining to the establishment and placement of traffic control devices.

2. SETTING A NEW SPEED ZONE & LIMITS ON ROYAL OAKS DRIVE FROM LATROBE ROAD (No. 18) TO BLACKSTONE PARKWAY (No. 2797)

This segment of Royal Oaks Drive is a two-lane, local road that is 0.97 mile in length (0.86 mile study section), and serves an average of 1,544 vehicles per day. There were no collisions in the past three (3) year period from January 1, 2015, through December 31, 2017. The segment mainly serves residential uses via side streets, the Valley View Elementary School, and a sports field complex.

- 85th percentile speeds of 40 miles per hour were recorded from MP 0.00 to 0.86.
- Royal Oaks Drive is a Local roadway with a meandering sidewalk on either side of the roadway.
- The calculated average daily traffic volume was 1,544 vehicles per day at MP 0.50.
- Roadway is curvilinear with medium grade changes.
- There are two (2) intersecting county roads and five (5) intersecting private roads.
- There were no collisions reported on Royal Oaks Drive from MP 0.00 to 0.86 for the three (3) year period from January 1, 2015, through December 31, 2017.

- Two (2) pedestrians and two (2) cyclists were observed on the roadway during the site review that lasted approximately 1.5 hours.
- The existing 85th percentile speeds of 40 miles per hour would justify, in accordance with CAMUTCD, a radar enforced 40 mph speed zone.

<i>2018 SITE LOCATION</i>	<i>MILE POST</i>	<i>SPEED LIMIT</i>	<i>85% SPEED</i>	<i>10 MPH PACE</i>	<i>% IN PACE SPEED</i>
<i>2900' N/O Latrobe Rd</i>	<i>0.55</i>	<i>N/A</i>	<i>40 mph</i>	<i>31-40 mph</i>	<i>83.3 %</i>

RECOMMENDATION:

1. Based on the findings of this survey it is recommended that the Traffic Advisory Committee approves the speed zone with a limit of 40 miles per hour on Royal Oaks Drive from Latrobe Road to Blackstone Parkway.
2. The County of El Dorado Board of Supervisors is requested to adopt the following Resolution to sanction the speed zone on Royal Oaks Drive:

ADD:

“(gh) Royal Oaks Drive (No. 2800) forty (40) miles per hour from Latrobe Road (No. 18) to Blackstone Parkway (No. 2797).”

3. That the California Highway Patrol utilizes radar enforcement on Royal Oaks Drive.

Prepared by: _____



Jim Hunnicutt
Senior Engineering Technician

APPROVED BY: _____



Rafael Martinez, Director
Community Development Services
Department of Transportation

on _____

1/21/19
Date

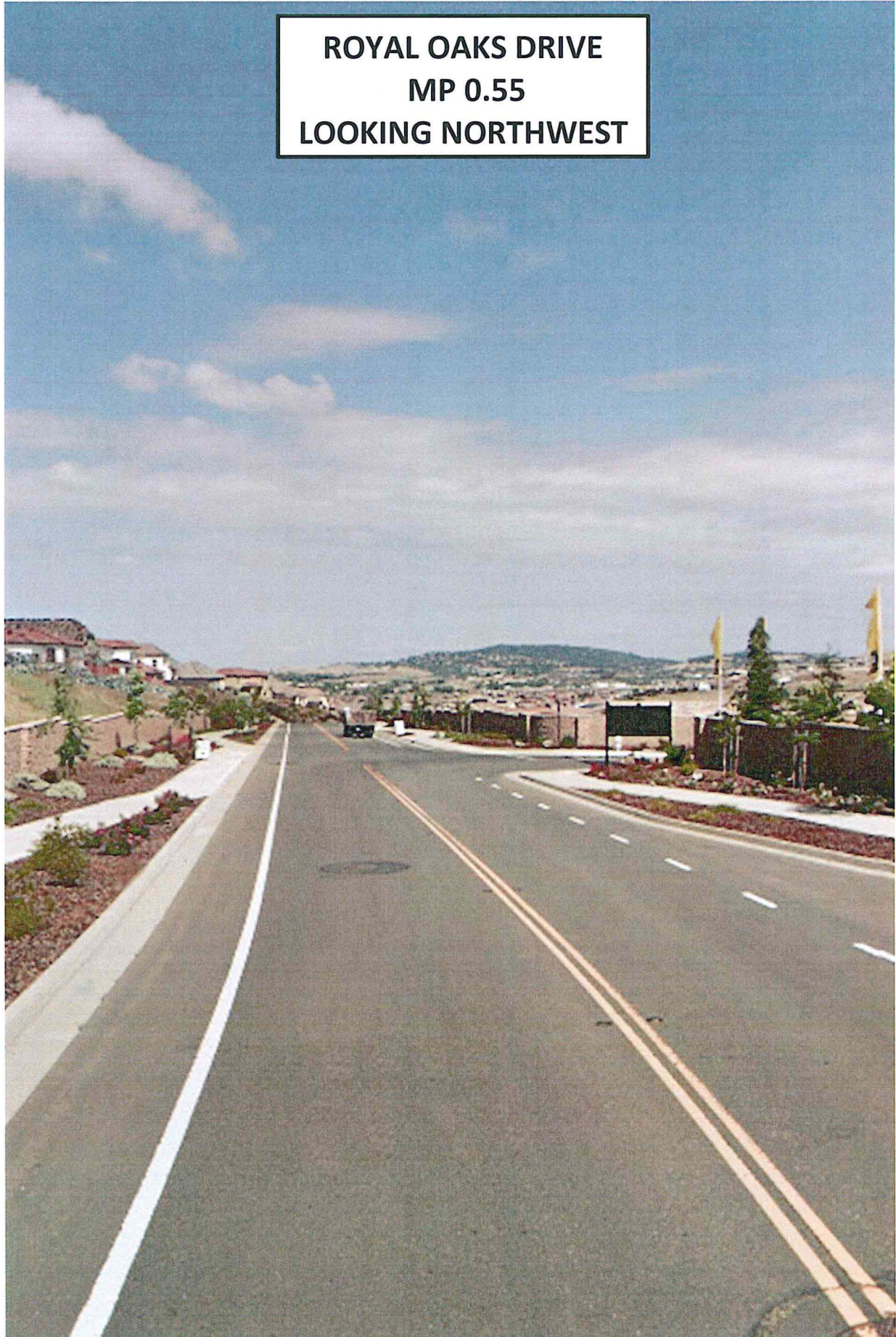
Attachments: Vicinity Map (1 page)
Vicinity Photos (1 page)
Speed Survey (1 page)
Petition Request (3 pages)

Royal Oaks Drive Vicinity Map



October 2018 Speed Survey

**ROYAL OAKS DRIVE
MP 0.55
LOOKING NORTHWEST**



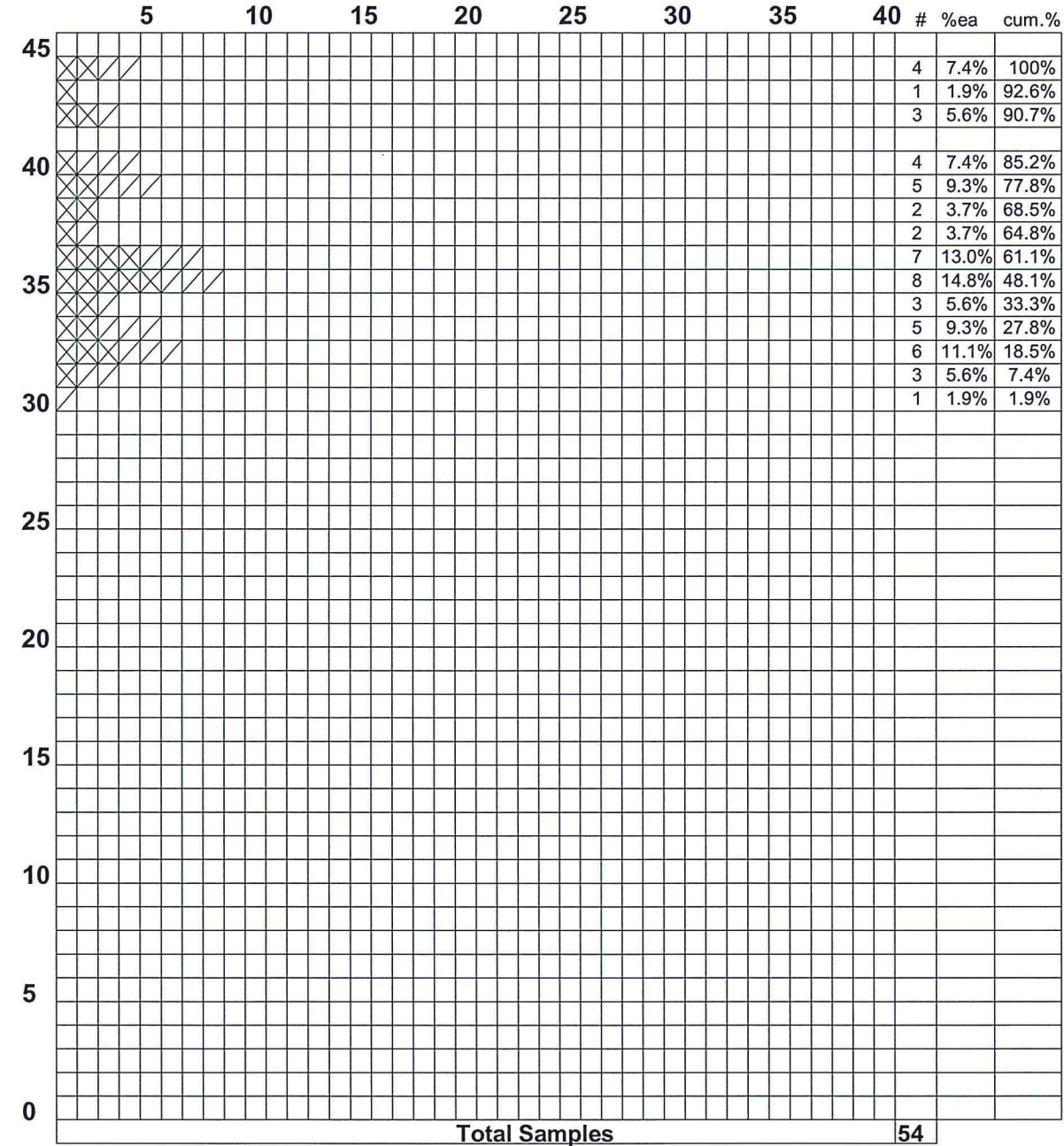
**County of El Dorado
Transportation Division**

Street Name: ROYAL OAKS DRIVE

Limits: BLACKSTONE PARKWAY to LATROBE ROAD

Radars Survey Sheet

X=North /=South



85th Percentile Speed: <u>40</u>	Date of Survey: <u>10/3/2018</u>	Start Time: <u>10:45</u>
50th Percentile Speed: <u>36</u>	Weather: <u>Cloudy</u>	End Time: <u>12:00</u>
15th Percentile Speed: <u>32</u>	Road Condition: <u>Good</u>	Posted Speed:
10 MPH Pace: <u>31-40</u>	Street Class.:	
Number in Pace: <u>45</u>	Observer: <u>M. BASTIAN</u>	
Percent in Pace: <u>83.3%</u>	Conditions not Apparent: BIKES = 2, PEDS = 2	

PETITION FOR ROAD, PARKING RESTRICTIONS, SIGNING, AND/OR STRIPING IMPROVEMENTS

DATE OF REQUEST: MAY 7, 2018

NATURE OF CONDITION AND REQUEST BEING MADE:

Blackstone Community in El Dorado Hills California continues to grow as more and more builders complete home sales. Valley View Elementary School has opened and is expecting to expand 100 to 200 students for the School year 2018-2019. All of this growth in the Blackstone Community has brought significant traffic into our Community and leads us to the need for street speed limits.

Our petition is as follows:

We request a 35 mile per hour speed limit to be established Eagle Creek Court to the intersection of Blackstone Parkway and Keystone Dr.

We also request a 35 mile per hour speed limit to be established from the intersection of Blackstone Parkway and Royal Oaks Dr. up Royal Oaks Dr. to Latrobe Rd.

As part of this request, we ask that speed limit signs be installed as well as stenciling on the street asphalt.

REPRESENTATIVE(S) CONTACT FOR THIS PETITION

NAME SIGNATURE ADDRESS PHONE NUMBER EMAIL

JEANNETTE RICHARDS J Richards 2008 Keystone Dr 916-812-1182 j.richards@sbeglobal.net

HOMEOWNERS IN SUPPORT OF BLACKSTONE COMMUNITY SPEED LIMIT PETITION

NAME	SIGNATURE	ADDRESS	PHONE NUMBER	EMAIL
DAVE RICHARDS		2000 KEYSTONE DR	916-716-1095	
ED KRAFF		5241 BREITFORD WY	707-759-6708	
VIVIAN		2800 ROYAL OAKS DR	431-237-2466	
Christina Martin		" "	478-442-7100	
Carl Nutter		1747 BRANWICK RD	(916) 234-3451	
DAVE PUTNAM		1771 BRANDYWOOD WY	415-500-1266	
SIMON EVANS		148 TALKING CREST	510-301-8050	
SEBASTIAN THEODORE		615 TOLWOOD	916-260-5991	
Tom Fox		635 VALLEY RIDGE DR	916-320-2200	
Janis Perry		5133 ARLINGTON WY	404-210-0740	
Leanda Magruder		5133 ARLINGTON WY	409-710-0990	
Charles Magruder		5153 BREITFORD WY	925-813-9722	
James Bergstrom		5153 BREITFORD WY	925-890-6702	
BONNI BERGSTRUM		2000 KEYSTONE DR	650-740-9763	
Teri Chatfield		1731 BRANDYWOOD WY	510-507-8796	
Jennifer Magruder		1731 BRANDYWOOD WY	510-912-8421	
JERRY AGUIERS				

HOMEOWNERS IN SUPPORT OF BLACKSTONE COMMUNITY SPEED LIMIT PETITION

NAME	SIGNATURE	ADDRESS	PHONE NUMBER	EMAIL
Barb Krabbenloft		318 Eagle Creek Ct	916-612-4233	bkrabbenloft@aol.com
DENNIS McCLow		3594 ROSE CREST CIR	916-817-1211	
Bob Hendricks		2520 Cobble Rock Way		
BURR EMERY		1286 CORNERSTONE DR	530-306-0772	
LINDA BOND		426 LAUREL ST	916-359-9572	
Patricia Finnan		5043 Arlington Way	916-790-8423	
YON FINNAN		5043 Arlington Way	916-790-8423	
GREG BUNDESEN		5115 ARLINGTON WAY	916-934-6645	
ERIC BOND		8236 Ryland Dr.		
D. Blume		2003 Keystone Dr.	425-260-1899	