



# SPEED ZONE SURVEY

## BLACKSTONE PARKWAY

(No. 2797)

From Cornerstone Drive (No. 2799) to 1000 feet east of Royal Oaks Drive (No. 2800)

Reviewed by the Traffic Advisory Committee on JAN 31 2019

COMMITTEE APPROVED STAFF'S RECOMMENDATION.

COMMITTEE REQUESTED FURTHER ACTION.

Action APPROVED

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**DEPARTMENT OF TRANSPORTATION**  
**ENGINEERING AND TRAFFIC SURVEY**

**Location:** From Cornerstone Drive (No. 2799) to 1000 feet south of Royal Oaks Drive (No. 2800)

**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 Blackstone Parkway from Cornerstone Drive to 1000 feet east of Royal Oaks Drive 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 Blackstone Parkway from Cornerstone Drive to a point 1000 feet east of Royal Oaks Drive (milepost 0.68 to milepost 1.84) and providing recommendations intended to improve safety along this portion. Blackstone Parkway runs in a North/South direction from Valley View Parkway MP 0.00 to a point 1000 feet east of Royal Oaks Drive MP 1.84.

**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 BLACKSTONE PARKWAY FROM CORNERSTONE DRIVE (No. 2799) TO 1000 FEET EAST OF ROYAL OAKS DRIVE (No. 2800)**

This segment of Blackstone Parkway is a two-lane, local road that is 1.84 miles in length (1.16 mile study section), and serves an average of 5,000 vehicles per day. There has been one (1) collision with one (1) injury in the past three years, resulting in a collision rate of 0.16 acc/MVM. The segment mainly serves residential uses via side streets, the Valley View Elementary School, and a sports field complex. This request came from the residents internal to the Blackstone Subdivision per requested petition by residents.

- Blackstone Parkway is a Local roadway with a raised median on portions of this roadway with a meandering sidewalk along Blackstone Parkway.
- 85<sup>th</sup> percentile speeds of 40 miles per hour were recorded from MP 0.68 to 1.84.
- The calculated average daily traffic volume was 5,000 vehicles per day at MP 1.40.
- There is an existing 25 mph School Zone adjacent to Valley View Elementary School and sports complex.
- Roadway is curvilinear with minimal grade changes.
- There are four (4) intersecting county roads and ten (10) intersecting private roads.

- There was one (1) collision reported on Blackstone Parkway from MP 0.68 to 1.84 for the three (3) year period from January 1, 2015, through December 31, 2017 with a collision rate of 0.16 collisions per Million Vehicle Miles. This is lower than the county wide benchmark collision rate of 1.70 collisions per Million Vehicle Miles.
- Twenty-six (26) pedestrians, ten (10) cyclists, and four (4) pedestrians with strollers were observed on the roadway during the site review that lasted approximately 2 hours.
- The existing 85<sup>th</sup> percentile speeds of 40 miles per hour would justify, in accordance with CAMUTCD, a radar enforced 40 mph speed zone. However, due to a high pedestrian and cyclist count, high traffic volume on this local road, and several private encroachments, school and sports complex within, staff recommends the need for a further reduction of five (5) miles per hour to a radar enforced 35 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>300 ft S/O Cornerstone Dr</i>	<i>0.75</i>	<i>N/A</i>	<i>40 mph</i>	<i>31-40 mph</i>	<i>76.2 %</i>
<i>200 ft S/O Opal Dr</i>	<i>1.35</i>	<i>N/A</i>	<i>40 mph</i>	<i>31-40 mph</i>	<i>81.4 %</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 35 miles per hour on Blackstone Parkway from Cornerstone Drive to 1000 feet east of Royal Oaks Drive.
2. The County of El Dorado Board of Supervisors is requested to adopt the following Resolution to sanction the speed zone on Blackstone Parkway:

**ADD:**


“(gg) Blackstone Parkway (No. 2797) thirty-five (35) miles per hour from Cornerstone Drive (No. 2799) to 1000 feet east of Royal Oaks Drive (No. 2800).”

3. That the California Highway Patrol utilizes radar enforcement on Blackstone Parkway.

Prepared by: \_\_\_\_\_



Jim Hunnicutt  
Senior Engineering Technician

APPROVED BY:  on 1/21/19  
Rafael Martinez, Director  
Community Development Services  
Department of Transportation  
Date

Attachments: Vicinity Map (1 page)  
Vicinity Photos (2 pages)  
Speed Survey (2 pages)  
Petition Request (3 pages)



# Blackstone Parkway Vicinity Map



October 2018 Speed Survey



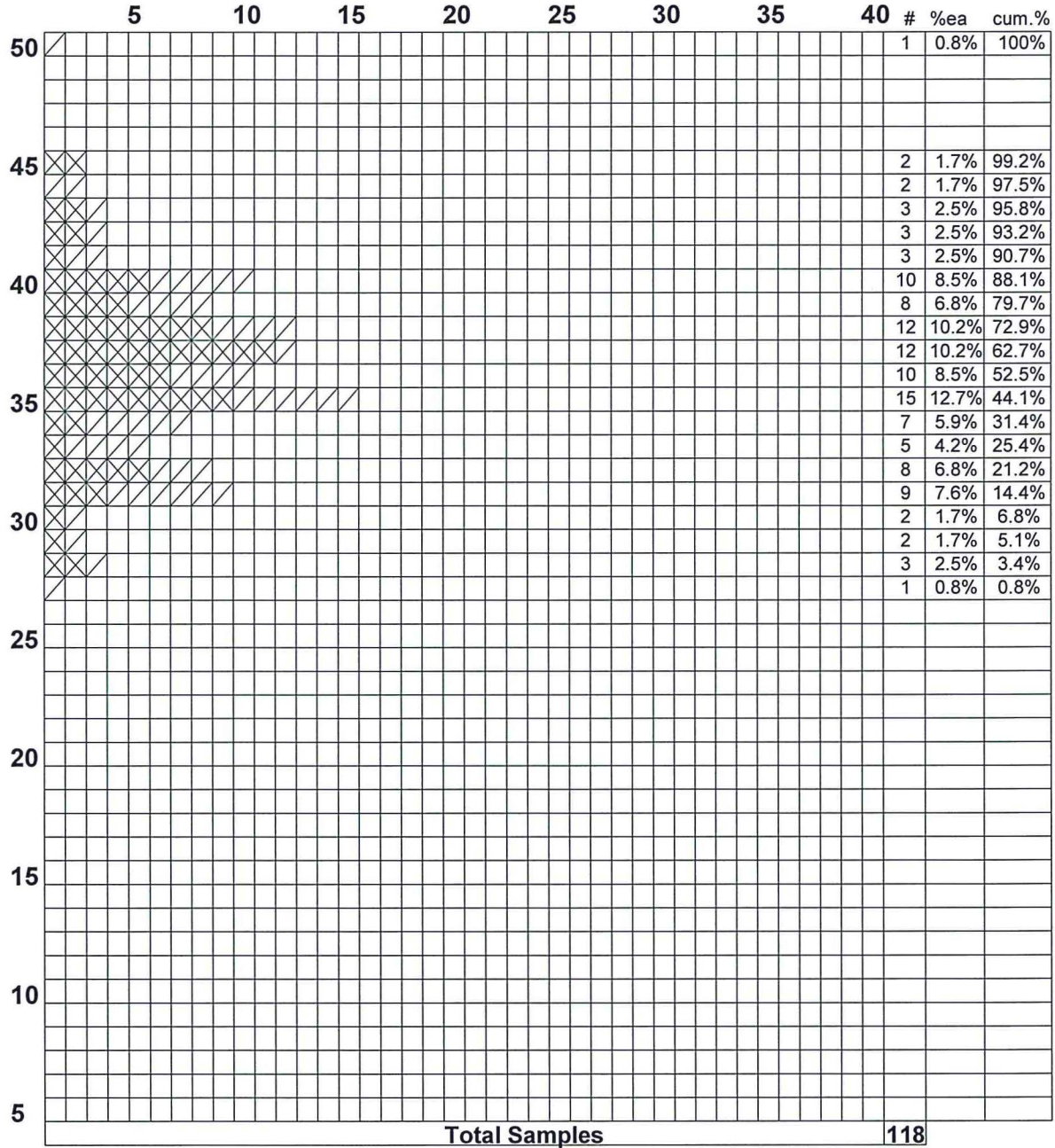
**County of El Dorado  
Transportation Division**

Street Name: BLACKSTONE PARKWAY

Limits: ALDRIDGE WAY SOUTH to COUNTY ROAD NUMBER 2802

**Radar Survey Sheet**

X=North /=South



85th Percentile Speed: 40  
 50th Percentile Speed: 36  
 15th Percentile Speed: 32  
 10 MPH Pace: 31-40  
 Number in Pace: 96  
 Percent in Pace: 81.4%

Date of Survey: 10/3/2018      Start Time: 10:00  
 Weather: Cloudy      End Time: 10:45  
 Road Condition: Good      Posted Speed:  
 Street Class.:  
 Observer: M. BASTIAN  
 Conditions not Apparent: BIKES = 8, PEDS = 7, 2 STROLLERS

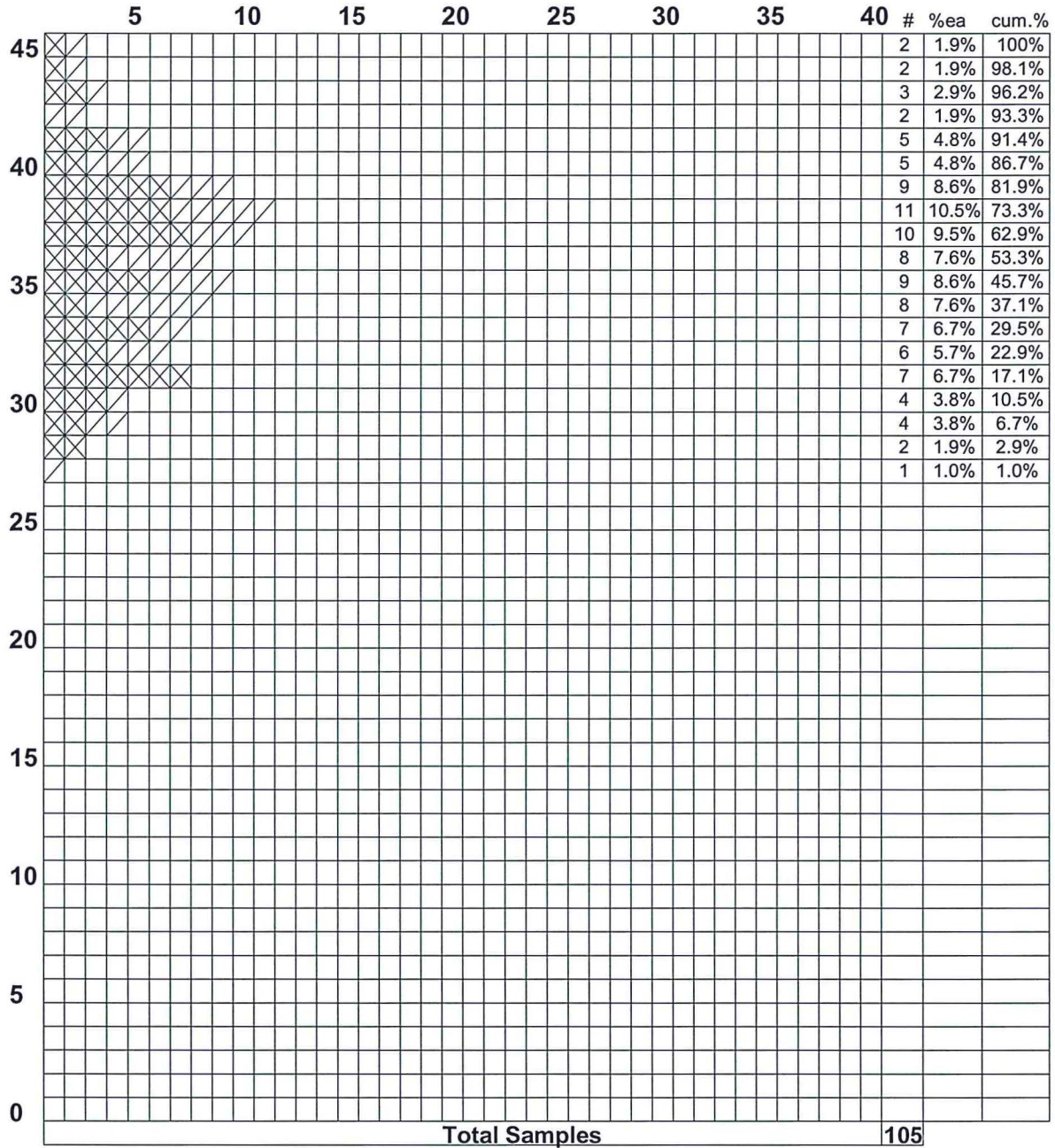
**County of El Dorado  
Transportation Division**

Street Name: BLACKSTONE PARKWAY

Limits: CORNERSTONE DRIVE to ALDRIDGE WAY NORTH

**Radars Survey Sheet**

X=North /=South



85th Percentile Speed: 40  
 50th Percentile Speed: 36  
 15th Percentile Speed: 31  
 10 MPH Pace: 31-40  
 Number in Pace: 80  
 Percent in Pace: 76.2%

Date of Survey: 10/2/2018      Start Time: 9:30  
 Weather: Cloudy      End Time: 10:45  
 Road Condition: Good      Posted Speed:  
 Street Class.:  
 Observer: M. BASTIAN  
 Conditions not Apparent: BIKES = 2, PEDS = 19, 2 STROLLERS



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.

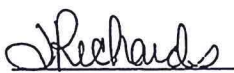
We also request a 35 mile per hour speed limit to be established from the intersection of Blackstone Parkway and Royal Oaks Dr. up Royal Oaks Dr. to Latrobe Rd.

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


















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REPRESENTATIVE(S) CONTACT FOR THIS PETITION

NAME	SIGNATURE	ADDRESS	PHONE NUMBER	EMAIL
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JEANNETTE RICHARDS		2008 Keystone DR	916-812-1182	j.bardo@sbeGLOBAL.net
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HOMEOWNERS IN SUPPORT OF BLACKSTONE COMMUNITY SPEED LIMIT PETITION

NAME	SIGNATURE	ADDRESS	PHONE NUMBER	EMAIL
JOHN RICHARDS		2000 KEYSTONE DR	916-716-1095	
ED KRAPP		5241 BRENTFORD WY 11	707-759-6708 11	
VIVIAN		2800 ROYAL OAKS D.	431-237-2496	
CHRISTINA MARIAN		" "	478-442-7100	
KARL NUTTEN		" "	(916) 234-3551	
DAVE PUTNAM		1747 BRANDINCE WAY	415-500-1266	
SIMON EVANS		1771 BRANDYWOOD WY	570-301-8050	
SEBASTIAN THEODORE		148 TACKLE COURT	916-260-5991	
TOM FOX		615 FLOWERS	916-320-2220	
JAN PERMAN		638 VALLEY BEND CT	404-210-0740	
LINDA MAGYER		5133 CALIBUR WAY	409-710-0990	
CHARLES MAGYER		5133 ARLINGTON WY	925-813-9722	
JAMES BERGSTROM		5153 BRENTFORD WY	925-890-6702	
BONNI BERGSTROM		5153 BRENTFORD WY	650-740-9763	
TERI CHATFIELD		2000 KEYSTONE DR	510-507-8796	
JENNIFER DILLON		1731 BRANDYWOOD WY	510-912-8421	
JERRY AGUIAR		1731 BRANDYWOOD WY		



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 McChow		3594 ROSECREST CIR	916-817-1711	
Bob Hendricks		2520 Cobble Rock Way		
Burr Emery		1286 CORNERSTONE DR	530-306-0772	
Linda Band		425 LAUREL ST	916-359-7572	
Patty Finnan		5043 Arlington Way	916-790-8423	
Tom Finnan		5043 Arlington Way	916-790-8423	
GREG BUNDESEN		545 ARLINGTON WAY	916.934.6645	
Eric Bane		8236 Ryland Dr.		
D. Blume		2003 Keokuk Dr.	425-260-1899	