




**CITY OF REDDING
ENGINEERING AND TRAFFIC SURVEY
OF
KNIGHTON ROAD**

JULY 31, 2010

For the determination of safe and reasonable speed zoning as required by Sections 22358 and 40802 of the California Vehicle Code (CVC), as defined by Section 627 of the CVC and in accordance with Section 2B. 13 of the California Manual on Uniform Traffic Control Devices, this Engineering and Traffic Survey (ETS) was initiated to verify or modify speed zones on Knighton Road.

Based on the results of this ETS (attached) and adoption of Ordinance Number 2465 by the City Council of the City of Redding amending Redding Municipal Code Section 11.12.010, a speed zone on Knighton Road of 50 MPH from Airport Road to City Limits is established.

In accordance with Redding Municipal Code 11.08.010, appropriate signs giving notice of the above speed zoning shall be placed and the stated speed limit(s) shall be effective upon the placement of such signs.


3/26/2012
Brian Crane, P. E.
Director of Public Works

ATTEST:


3/26/12
PAMELA MIZE, City Clerk

City of Redding
Knighton Road
Engineering and Traffic Survey (ETS) for Speed Zoning

	Speed Zone Limits
	AIRPORT RD TO CITY LIMITS

ROADSIDE CONDITIONS

LAND USE DISTRICT	BUSINESS / RESIDENTIAL
PEDESTRIANS USE	SELDOM
PERCENT SIDEWALKS	5%
BIKE LANE or ROUTE	NO
DRIVEWAYS PRESENT	FEW

ROADWAY GEOMETRY

LENGTH OF ROADWAY SEGMENT (FEET)	4,600
NUMBER OF THRU LANES	2 (1 NB, 1 SB)
WIDTH (FEET)	50 - 56
MEDIAN TYPE	CONCRETE MEDIAN / TURN LANE
HORIZONTAL ALIGNMENT	GENTLE CURVE
VISIBILITY	GOOD
VERTICAL ALIGNMENT	FLAT

OBSERVED TRAFFIC CONDITIONS

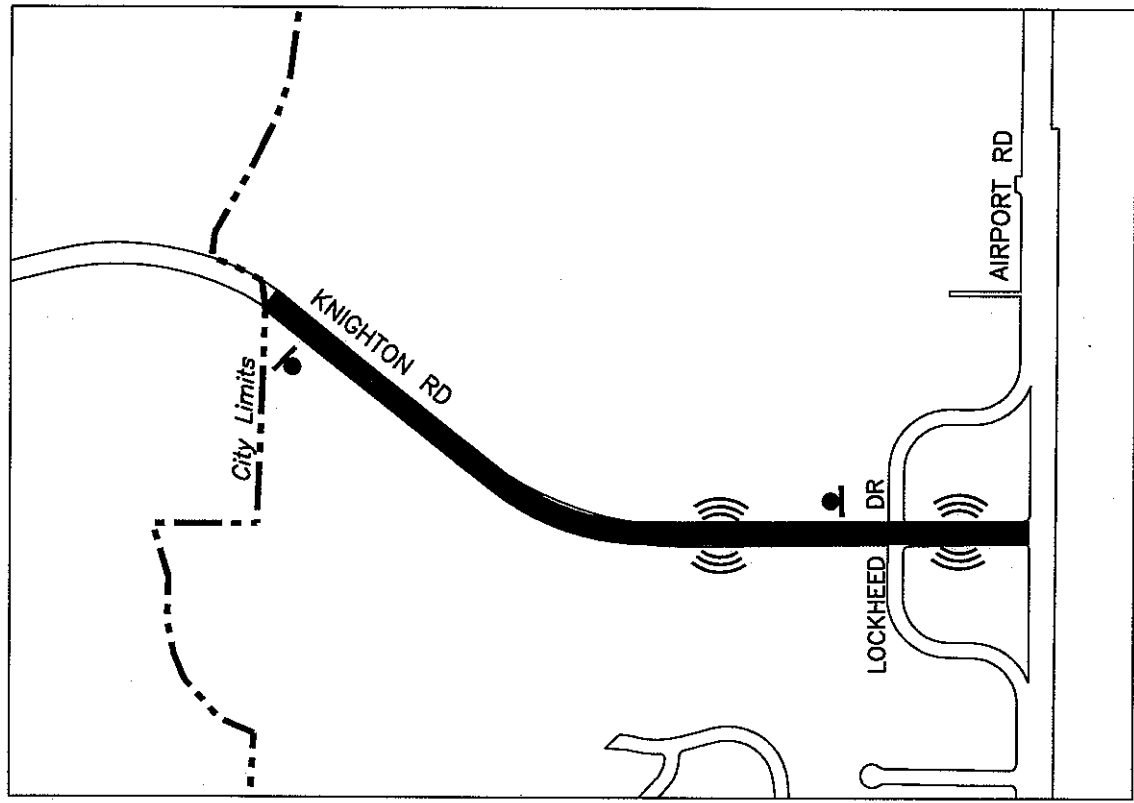
DATE OF RADAR SURVEY	June 8, 2009
AVERAGE DAILY TRAFFIC (ADT)	3,200
EXISTING POSTED SPEED	NONE
CRITICAL SPEED (85th PERCENTILE)	51 MPH
MEDIAN SPEED (50th PERCENTILE)	43 MPH
10 MPH PACE RANGE	37 - 47 MPH
TOTAL COLLISIONS IN 2 YEARS	2
COLLISIONS PER MILLION VEHICLE MILES (MVM)	0.71 PER MVM
ROUNDING APPLIED TO OBSERVED CRITICAL SPEED (85th PERCENTILE) PER GUIDANCE OF MUTCD SECTION 2B.13	50 MPH

RECOMMENDATION

POST SPEED LIMIT	50 MPH
JUSTIFICATION FOR ESTABLISHING SPEED LIMIT 5 MPH BELOW CRITICAL SPEED (85th PERCENTILE)	N/A




Gary Otensla 7/7/10
 REGISTERED CIVIL ENGINEER DATE





Posted Speed: NONE		Day: Monday	
Weather: Clear & Dry		Date: 6/8/09	
Observer: Rogue		Time: 9:40 - 10:40 AM	
Critical Speed : 61 mph		Calcs: Otremba	
Average Speed : 43.7 mph			
Median Speed : 43 mph			
Standard Deviation: 6.0 mph			
Pace Range : 37 - 47 mph			
Percent in Pace : 57.0%			
Total # Vehicles : 242			
MPH	# of Veh.	Both Directions	%
62			100.0%
61	1	♦	100.0%
60			99.6%
59	2	♦♦	99.6%
58			98.8%
57	1	♦	98.8%
56	2	♦♦	98.3%
55	2	♦♦	97.5%
54	5	♦♦♦♦♦	96.7%
53	6	♦♦♦♦♦♦	94.6%
52	12	♦♦♦♦♦♦♦♦♦♦	92.1%
51	9	♦♦♦♦♦♦♦♦	87.2%
50	8	♦♦♦♦♦♦♦	83.5%
49	10	♦♦♦♦♦♦♦♦	80.2%
48	10	♦♦♦♦♦♦♦♦	76.0%
47	9	♦♦♦♦♦♦♦	71.9%
46	13	♦♦♦♦♦♦♦♦♦♦	63.2%
45	14	♦♦♦♦♦♦♦♦♦♦	62.8%
44	19	♦♦♦♦♦♦♦♦♦♦♦♦	52.9%
42	12	♦♦♦♦♦♦♦♦♦	45.0%
41	12	♦♦♦♦♦♦♦♦	40.1%
40	23	♦♦♦♦♦♦♦♦♦♦♦♦	35.1%
39	12	♦♦♦♦♦♦♦♦	25.6%
38	9	♦♦♦♦♦♦♦	23.7%
37	14	♦♦♦♦♦♦♦♦	16.5%
36	13	♦♦♦♦♦♦♦♦	11.2%
35	5	♦♦♦♦	5.8%
34	4	♦♦♦	3.7%
33	2	♦♦	2.1%
32	2	♦♦	1.2%
31			0.4%
30			0.4%
29			0.4%
28			0.4%
27			0.4%
26			0.4%
25	1	♦	0.4%
24			0.0%

LEGEND

-  SPEED LIMIT SIGN
-  RADAR LOCATION
-  50 MPH SPEED ZONE

CITY OF REDDING PUBLIC WORKS DEPARTMENT
KNIGHTON RD SPEED STUDY
 AIRPORT RD TO CITY LIMITS

MAY 2010

