

MEMORANDUM

To:

Traffic Study Files

From:

Eric Bollich, P.E., PTOE
South Austin Supervisor
Traffic Engineering Division
Austin Transportation Department

Date:

July 12, 2012

Subject:

Speed Zone Investigation

Location:

Convict Hill Road - U.S. 290 to Brodie Lane

Date(s) of Previous Investigation: April 1996 and November 1987

A speed zone investigation has been conducted by the Austin Transportation Department to determine appropriate speed limits on Convict Hill Road between U.S. 290 and Brodie Lane. Figure 1 presents a map of the study area.

Location Conditions

Convict Hill Road is a two-lane collector that runs in a general west-east direction between U.S. 290 and Brodie Lane for a total length of approximately 3.25 miles. Over the entirety of Convict Hill Road, pertinent roadway features are inconsistent. The following table summarizes roadway features on selected segments.

Block Number Street Segment		Street Width	Features	Existing Speed Limit	
6900	U.S. 290 to Shadowridge Run	44 ft	Intermittent on-street parking and fronting houses on north curb; bike lanes and sidewalks; curbs	30	
6600	Shadowridge Run to Escarpment Blvd	44 ft	Intermittent on-street parking and fronting houses on north curb; bike lanes and sidewalks; curbs	30	
5800	Escarpment Blvd to Wagon Train Rd	44 ft – 50 ft	Bike lanes and sidewalks; curbs	40	



5600	Wagon Train Rd to Woodcreek Rd	44 ft	Bike lanes and sidewalks; curbs	40
4800	Woodcreek Rd to Brush Country Rd	22 ft	No curbs or sidewalks; horizontal curves	30
4700	Brush Country Rd to Vermillion Dr	35 ft – 70 ft	Sidewalks; full north curb; intermittent south curb	40
4400	Vermillion Dr to Saffron St	22 ft	No curbs; sidewalk on north side	40
40HH		22 ft – 50 ft	No curbs; sidewalk on north side; 20 mph school zone, sidewalks, and curbs near Covington Middle School	35

eed and Volume Data

The following speed and volume data were collected in April 2012 to determine appropriate posted speed limits for Convict Hill Road.

Block Number	Street Segment	Existing Speed	85% Speed		Traffic Volumes
		Limit	EB	WB	Volumes
6900	U.S. 290 to Shadowridge Run	30	38	40	8007
6600	Shadowridge Run to Escarpment Blvd	30	39	39	7851
5800	Escarpment Blvd to Wagon Train Rd	40	44	45	5387
5600	Wagon Train Rd to Woodcreek Rd	40	41	39	5109
4800	Woodcreek Rd to Brush Country Rd	30	37	38	5367
4700	Brush Country Rd to Vermillion Dr	40	35	36	5740
4400	Vermillion Dr to Saffron St	40	42	43	5491
3900	Saffron St to Brodie Ln	35	41	43	5553

Figure 2 presents a speed zone map summarizing the collected data.

Recommendation

Based on an analysis of the location information and traffic data, it is my engineering judgment that the following speed limits should be established on Convict Hill Road.

- U.S. 290 to Escarpment Boulevard: 35 mph
- Escarpment Boulevard to Woodcreek Road: 40 mph
- Woodcreek Road to Brodie Lane: 35 mph
 - The 20 mph school zone should remain between Reaburn Street and Lochinvar Street



