

Darnell & ASSOCIATES, INC.

TRANSPORTATION PLANNING & TRAFFIC ENGINEERING

May 19, 2015

Mr. Robert L. Mohler
City of Cathedral City
68-700 Avenida Lalo Guerrero
Cathedral City, CA. 92284

D&A Ref. No: 150105

Subject: Speed Limit on Cathedral Canyon Drive between Palm Canyon Drive and Terrace Road.

Dear Mr. Mohler,

I have completed my investigation of the speed limit posting on Cathedral Canyon Drive between Palm Canyon Drive and Terrace Road. The 2009 recommended speed limit on Cathedral Canyon Road between Terrace Road and Palm Canyon Road was based on the Cathedral City General Plan designation of the roadway as a Secondary Highway. The designation at the time required that the speed limit be based on Engineering and Traffic Survey if it is enforced with the use of radar.

Since that time the City's General Plan has removed the Secondary Highway (4-land highway) designation. With the removal of the secondary Highway designation the roadway is considered a Local Roadway subject to the California Vehicle Code (CVC) definitions.

The CVC Section 240 identifies the criteria to be applied to Local Roadways in determining the roadway is within a Business District or Residential District as follows:

- a) No building shall be regarded unless its entrance faces the highway and the front of the buildings is within 75 feet of the roadway.
- b) Where a highway is physically divided into two or more roadways only those buildings facing each roadway separately shall be regarded for the purpose of determining whether the roadway is within a district.
- c) All churches, apartments, hotels, multiple dwelling houses, clubs and public buildings, other than schools, shall be deemed to be business structures.
- d) A highway or portion of a highway shall not be deemed to be within a district regardless of the number of building upon the contiguous property if there is no right of access to the highway by vehicles from the contiguous property.

The next step in the analysis process involves the application of CVC 240 criteria noted above and the following CVC Section 515 for a Residence District and CVC 40802 Speed Trap requirements of:

- a) Upon one side of the roadway within a distance of one-quarter of a mile (1,320 feet) the contiguous property fronting the roadway is occupied by 13 or more separate dwelling houses or business structures or
- b) Upon both sides of the roadway collectively within a distance of one-quarter of a mile (1,320 feet) is occupied by 16 or more dwelling houses or business structures.
- c) A Residence District may be longer than one-quarter mile (1,320 feet), if the above ratio of separate dwelling units or business structures to the length of the roadway exists.

- d) Roadway width of not more than 40 feet (curb to curb).
- e) Not more than one lane in each direction.

Application of all the above criteria to Cathedral Canyon Drive from Palm Canyon Drive to Terrace Road identifies that Cathedral Canyon Drive between Kings Road and Terrace Road can be classified as a Residential District and Posted with a 25 MPH speed limit. Figure 1 depicts the existing Residential Dwelling Units that take direct access to Cathedral Canyon Drive with a roadway width of 40 feet or less that provides one travel lane in each direction. Between Kings Road and Palm Canyon Drive the roadway widens to more than 40 feet in width and provides more than one lane in each direction.

Review of Figure 1 shows the following conditions along Cathedral Canyon Drive between Kings Road and Terrace Road:

- Distance: 2,166 feet
- Travel Lanes: 2 lanes (one lane in each direction)
- Roadway Width: 40 feet or less (with popouts at the southeast corner on B Street, C Street, D Street, E Street, F Street and San Jacinto Drive)
- Residencies:
 - Westside of Roadway: 21
 - Eastside of Roadway: 9
 - Total: 30
- Residences Required $X = (16 \text{ DU} \times 2,160 \text{ ft}) \div (1,320 \text{ feet}) = 26$

Review of the Cathedral Canyon Drive conditions listed above and comparison to the CVC 215, CVC 240 and CVC 40802 allows the conclusion that Cathedral Canyon Drive between Kings Road and Terrace Road is defined as a Residential District and the speed limit on the roadway can be posted 25 MPH and be enforced with radar.

Additional information considered is the 2,075 Average Daily Traffic collected by the City of Cathedral City on March 25, 2015 through March 28, 2015 and the pedestrian fatality that occurred in the southbound travel lane of Cathedral Canyon Drive south of Hillcrest Road on January 8, 2013.

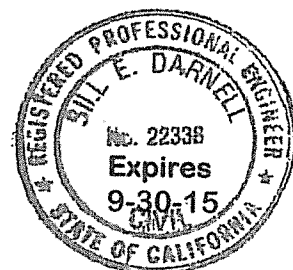
In summary Cathedral Canyon Drive between Kings Road and Terrace Road is considered a Residential District and can be posted 25 MPH and be enforced with radar. Attached is the survey sheet with the recommended 25 MPH speed limit.

Please feel free to contact our office should you have any questions or comments.

Sincerely,

DARNELL & ASSOCIATES, INC.


Bill E. Darnell, P.E.
RCE: 22338



5/19/2015
Date