

CORONADO, CALIFORNIA  
OFFICE OF THE CITY ENGINEER

WARRANTS

TRAFFIC SIGNALS

Traffic signals are the most effective method of controlling right of way assignment at an intersection.

1. Traffic signals are warranted at an intersection when any one of the following criteria is met:
  - a. Vehicular Volume
    - (1) Total vehicular volume on the principal street is 500 vehicles per hour for each of any 8 hours of an average day; and
    - (2) Vehicular volume on the minor street in one direction during the same 8 hour period is 150 vehicles per hour.
  - b. Interruption of Continuous Traffic
    - (1) Total vehicular volume on the principal street is 750 vehicles per hour for each of any 8 hours of an average day; and
    - (2) Vehicular volume on the minor street in one direction during the same 8 hour period is 75 vehicles per hour.
  - c. Pedestrian Volume
    - (1) Total vehicular volume on the principal street is 600 vehicles per hour for each of any 8 hours of an average day; and
    - (2) Pedestrians on the highest volume crosswalk on the principal street during the same 8 hour period amount to 150 per hour.
  - d. School Crossing
    - (1) No controlled crossing available within 600 feet of the intersection; and

(2) Vehicular volumes of 500 and school age pedestrian volumes of 100 for each of any two hours daily while children are crossing to and from school; or

(3) Vehicular volumes of 500 per hour for each of any two hours while children are crossing to and from school and a minimum of 500 school age pedestrians during the entire day.

e. Progressive Movement

When one of the following is true:

(1) On an isolated one-way street or on a street which preponderantly has unidirectional traffic significance, adjacent signals are so far apart that the necessary degree of platooning and speed control of vehicles would otherwise be lost.

(2) On a two-way street, where adjacent signals do not provide the necessary degree of platooning and speed control and the propose and adjacent signals could constitute a progressive signal system.

f. Accident

(1) Adequate trial of less restrictive remedies with satisfactory observance and enforcement has failed to reduce the accident frequency; and

(2) Five or more reported accidents of types susceptible of correction by traffic signal control have occurred within a 12-month period; and

(3) There exists a volume of vehicular and pedestrian traffic not less than 80 percent of the requirements specified in the minimum Vehicular Volume warrant, the Interruption of Continuous Traffic warrant, or the Pedestrian Volume warrant; and

(4) The signal installation will not seriously disrupt progressive traffic flow.

g. Systems

Applied when a traffic signal is needed to encourage concentration and organization of traffic flow networks based upon the criteria that two or more major routes have a total existing, or immediately projected, entering volume of at least 800 vehicles during the peak hour of a typical weekday, or each of any five hours of a Saturday and/or Sunday.

2. In exceptional circumstances traffic signals may be justified where no single warrant is satisfied, but where any two of the warrants for Vehicular Volume, Interruptions to Continuous Traffic and Pedestrian Volume are satisfied to the extent of 80 percent or more of the stated numerical values for each of any 8 hours of an average day.

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