

CITY OF COSTA MESA
PUBLIC SERVICES
TRANSPORTATION SERVICES

Multi-way Stop Control Warrant

Major St. _____ 24 hr vol _____ 8 hr vol _____ % of 8 hr vol _____ %
Minor St. _____ 24 hr vol _____ 8 hr vol _____ % of 8 hr vol _____ %
Calculated by _____ Date: _____ Totals _____

Balance of traffic approach volumes is one of the most important considerations in establishing multi-way stop control. A multi-way stop control may be considered warranted if 1, 2, or 3 below are met and the approach volume balance is 60/40 or better for major street vs. minor street respectively. If a severe accident or delay problem exists, intersections farther out of balance may be considered on an individual basis.

A. Where traffic control signals are justified, the multi-way stop is an interim measure that can be installed quickly to control traffic while arrangements are being made for the installation of the traffic control signal.

Signal is justified, Yes _____ No _____

B. An accident problem, as indicated by 5 or more reported accidents in a 12-month period that are susceptible to correction by a multi-way stop installation. Such accidents include right- and left-turn collisions as well as right angle collisions.

Number of accidents susceptible to correction in a 12-month period _____

C. Minimum volumes:

1. The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 vehicles per hour for any 8 hours of an average day, and:
(Average vehicular volume/hour _____)

2. The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units per hour for the same 8 hours, with an average delay to minor-street vehicular traffic of at least 30 seconds per vehicle during the highest hour.

Veh. _____ + Peds _____ + Bicycles _____ = _____ / 8 = _____
Average Delay on Minor Street _____

3. If the 85-percentile approach speed of the major street traffic exceeds 40 miles per hour, the minimum vehicular volume warrant is 70 percent of the above requirements (C.1 and C.2).

Major St. 85% Speed _____ m.p.h. Applicable: Yes _____ No _____.

D. Other considerations: Where no single criterion is satisfied, but where Criteria B, C.1, and C.2 are all satisfied to 80 percent of the minimum values. Criterion C.3 is excluded from this condition.

Conclusion:

- Numerical warrant is met, Yes _____ No _____.
- Accident and or sidestreet delay problem exists calling for re-evaluation of the 60/40 volume split requirement. Yes _____ No _____.
- Criteria B, C.1, and C.2 all exceed 80% of minimum values. Yes _____ No _____