Warrants Evaluation Worksheet

Major Street : $\qquad$
Minor Street : $\qquad$

Traffic Volume Data :Traffic Count: $\qquad$Projected Traffic: $\qquad$

## WARRANT 1 - Eight-Hour Vehicular Volume

 CONDITION A - Minimum Vehicular Flow

## WARRANT 1 - Eight-Hour Vehicular Volume CONDITION B - Interruption of Continuous Traffic

$$
\begin{array}{lll}
\text { WARRANT 1, CONDITION B MET (100\%) ? } & \text { YES } \square \text { NO } \square \\
\text { WARRANT 1, CONDITION B MET (80\%) ? } & \text { YES } \square \text { NO } \square \\
\text { WARRANT 1, CONDITION B MET (70\%) ? } & \text { YES } \square \text { NO } \square
\end{array}
$$



## WARRANT 2 - Four-Hour Vehicular Volume


*Refer to Figure 4C-1 or Figure 4C-2 to determine if this warrant is met.

## WARRANT 3 - Peak Hour Delay

WARRANT 3 MET (100\%) ?
YES $\square$
NO $\square$

| REQUIREMENT |  | FULFILLED |  |
| :--- | :--- | :--- | :--- |
| The total stopped time delay experienced by the traffic on one minor street <br> approach (one direction only) controlled by a STOP sign equals or exceeds: <br> 4 <br> vehicle-hours for a one-lane approach; or 5 vehicle-hours for a two-lane <br> approach; or |  |  |  |
| The volume on the same minor street approach (one direction only) equals <br> or exceeds 100 vehicles per hour for one moving lane of traffic or 150 <br> vehicles per hour for two moving lanes; or |  |  |  |
| The total entering volume serviced during the hour equals or exceeds 650 <br> vehicles per hour for intersections with three approaches or 800 vehicles <br> per hour for intersections with four or more approaches. | Yes | $\square$ | $\square$ |

## WARRANT 4 - Pedestrian Volume

| WARRANT 4 MET (100\%) ? |
| :--- |
| REQUIREMENT |

## WARRANT 5 - School Crossing



## WARRANT 6 - Coordinated Signal System

WARRANT 6 MET (100\%) ? YES $\square$ NO $\square$

| MINIMUM REQUIREMENTS | DISTANCE TO NEAREST SIGNAL | FULFILLED |
| :---: | :---: | :---: |
| > 1000 feet | $\mathrm{N} \quad$ _ $\mathrm{m}, \mathrm{S}$ ___m, E__m, W___m. | Yes $\square$ No $\square$ |
| On a one-way street or street which has predominately unidirectional traffic, the adjacent signals are so far apart that they do not provide the necessary degree of vehicle platooning, or |  |  |
| On a two-way street, adjacent signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation. |  | Yes $\square$ No $\square$ |

## WARRANT 7 - Crash Experience

WARRANT 7 MET (100\%) ?

| REQUIREMENTS | FULFILLED |  |
| :--- | :--- | :--- |
| For each of any 8 hours of an average day, the vehicles per hour (vph) given in both of the <br> 80 percent columns of Warrant 1, Condition A, or the vph in both of the 80 percent <br> columns of Warrant 1, Condition B, exists on the major street and the higher volume minor <br> street approach, respectively, to the intersection, or the volume of pedestrian traffic is less <br> than 80 percent of the requirements specified in the Pedestrian Volume Warrant. These <br> major and minor street volumes shall not be required to be on the same approach during <br> each of the 8 hours; and | $\square$ |  |
| Adequate trial of alternatives with satisfactory observance and enforcement has failed to <br> reduce crash frequency; and | Yes | $\square$ |
| Five or more reported crashes, of types susceptible to correction by a traffic control signal, <br> have occurred within a 12-month period, each crash involving personal injury or property <br> damage apparently exceeding the applicable requirements for a reportable crash. | $\square$ | $\square$ |

## WARRANT 8 - Roadway Network



## WARRANT 3 - Peak Hour Delay

Figure 4C-3. Warrant 3, Peak Hour

*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70\% Factor) (COMMUNITY LESS THAN $\mathbf{1 0 , 0 0 0}$ POPULATION OR ABOVE $70 \mathrm{~km} / \mathrm{h}(\mathbf{4 0} \mathrm{mph})$ ON MAJOR STREET)

*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

