



POLICY MANUAL

ILLUMINATION - REGIONAL ROADS

March 1986

A. Intersection of Regional Road with King's Highway

- as per M.T.C. Policy conditions (i) to (v) inclusive
- M.T.C. Policy conditions (vi) will normally be exercised by the Region only when the two-way average annual night time (darkness) traffic volume on at least one leg of the Regional Road is a minimum of 250 vehicles. If the volume is less than this then the area municipality or area municipalities in which the intersection is located may exercise condition (vi) subject to a sketch of the proposed installation being approved by the Region as well as the M.T.C.

B. Intersection of Regional Road with Regional Road

The Region will consider the installation of illumination and pay 100 per cent of the installation cost and 100 per cent of the maintenance and operating costs (in the case of a fully channelized intersection (i.e. see (1) below) the installation cost, as mentioned previously, is eligible for M.T.C. subsidy at the current roadway construction subsidy rate) if any of the following conditions (1) to (5) are fulfilled:

- (1) Intersections where traffic is channelized by means of physical islands and curbs - at least partial illumination.
- (2) Intersections where traffic is channelized by means of pavement markings only - partial illumination at least along the channelized legs.
- (3) Signalized intersections - at least partial illumination.

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- (4) Intersections with high night accident rates (3 per year with no other obvious cause) - at least partial illumination.
- (5) Intersections of 4 lane undivided highways where the warrants for traffic signals are fulfilled at least 80 per cent - partial illumination.
- (6) For intersections where the area municipality finds sufficient benefit in the form of convenience, safety, policing, community promotion, public relations, etc., the Region will normally pay 25 per cent of the installation cost only when the two-way average annual night time (darkness) traffic volume on at least one leg of the minor (i.e. lower traffic volume) road is a minimum of 250 vehicles. If the volume is less than this, then the area municipality or area municipalities in which the intersection is located may install illumination provided they pay 100 per cent of the installation cost subject to a sketch of the proposed installation being approved by the Region. In either case the area municipality is to pay 100 per cent of the maintenance and operating costs.
- (7) For intersections adjacent to existing area of high intensity illumination (i.e. shopping centres, service stations, amusement centres, etc.) where the Region deems roadway illumination necessary for the safe operation of traffic, the area municipality will be expected to pay 50 per cent of the installation cost and 100 per cent of the maintenance and operating costs. For future such areas the area municipality will be expected to make provision for such roadway illumination in the development agreement, etc., or pay 100 per cent of the installation cost and maintenance and operating costs. A drawing or sketch of the proposed installation is to be approved by the Region.

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C. Intersection of Regional Road with Local Road

The following percentages of illumination costs will apply to each of the following conditions. A drawing or sketch of the proposed installation is to be approved by the Region in all cases:

- (1) Intersections where traffic is channelized by means of physical islands and curbs (at least partial illumination required). The Region will pay 100 per cent of the installation costs (a fully channelized intersection is eligible for M.T.C. subsidy at the current Regional roadway construction rate), but none of the maintenance and operating costs.
- (2) Intersections where traffic is channelized by means of pavement markings only (partial illumination required along the channelized legs at least). The Region will pay 50 per cent of the installation costs but none of the maintenance and operating costs.
- (3) Signalized intersections (at least partial illumination required). The Region will pay 100 per cent of all costs.
- (4) Intersections with high night accident rates (3 per year with no other obvious cause) at least partial illumination required. The Region will pay 50 per cent of installation costs, but the maintenance and operating costs are to be paid by the area municipality.
- (5) Intersections of 4 lane undivided highways where the warrants for traffic signals are fulfilled at least 80 per cent (partial illumination required). The Region will pay 50 per cent of the installation costs but none of the maintenance and operating costs.
- (6) As per B(6) under 'Intersection of Regional Road with Regional Road'.

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- (7) As per B(7) under 'Intersection of Regional Road with Regional Road'.

Between Intersection (i.e. along Regional Roads):

It is suggested that for the interim the area municipality assume 100 per cent of the installation costs and 100 per cent of the maintenance and operating costs for these areas. (See conditions (vii) to (x) inclusive of the M.T.C. policy). This position should be reassessed after the balance of the Regional Policy contained herein has been fully assessed for its economic implications to the Region. Sketches or drawings of all proposed installations are to be approved by the Region.

The proposed 'Illumination Policy for Regional Roads' contained herein is seen as a means of affecting greater night time traffic safety at the locations where it is most needed. The Engineering Department now proposes to begin an inventory of the Regional Road system to determine which intersections will satisfy which condition of the policy. For example the Police accident reports will be reviewed for each intersection along a Regional Road for the past 10 months. Only after such work is done will it be possible to obtain a reasonably accurate estimate of the total cost required to provide illumination at all locations which satisfy the policy. It will then be necessary to establish priorities among such locations and budget funds to install the needed illumination over perhaps a period of years. In the interim it is suggested that an affordable amount be budgeted.

(Clause No. 20, Report No. 15, Engineering - October 11, 1973)