

*Scott County Public Works*  
**Intersection Streetlight Policy**

**WARRANTS**

*Scott County may consider a streetlight warranted if and when at least one of the following conditions are met:*

1. Volume:

- a) Lighting may be provided at any intersection meeting the conditions of the following table:

	<b>Vehicles Per Day</b>
Minimum Major Street Volumes	2,000
Minimum Minor Street Percentage*	20%

\*The percent of the major street traffic that is required on the minor crossing street for the warrant to be met.

2. Accident Experience:

- a) Three nighttime (excluding civil twilight) crashes at the intersection over the previous three years. *Source: LRRB Safety Impacts of Street Lighting at Isolated Rural Intersections*
- b) The ratio of the night to day accident rate at the intersection is higher than the statewide average for similar locations, AND a study indicates that lighting may be expected to significantly reduce the night accident rate. *Source: AASHTO Information Guide for Roadway Lighting*

3. Ambient Light: Where illumination in areas adjacent to the intersection adversely affects the driver's vision. *Source: Mn/DOT Traffic Engineering Manual*

4. Geometry:

- a) The intersection is channelized and the 85<sup>th</sup> percentile approach speed exceeds 40 mph. *Source: Mn/DOT Traffic Engineering Manual*
- b) In rural areas where the driver is required to pass through a section of road with complex geometry and/or raised channelization. *Source: AASHTO Information Guide for Roadway Lighting*

5. Flashing Beacon/Signalization: The intersection has a flashing beacon or signalized traffic control. *Source: Mn/DOT Traffic Engineering Manual*

6. Local Political: Lighting may be considered where the local government agency finds sufficient benefit to wholly finance the installation, maintenance, and operation of the lighting facilities. *Source: AASHTO Information Guide for Roadway Lighting*

Under this warrant, the local agency must apply for a utility permit through Scott County.

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**DESIGN**

*Once approved for installation, placement of streetlights will be subject to the following guidelines:*

1. The Streetlight pole must not pose a hazard to the traveling public
  - a) Breakaway poles should be used and placed where they are not likely to be struck if possible (to minimize maintenance costs)
  - b) Longer mast arms can allow pole to be set further from the traveled way while still providing sufficient intersection lighting.
  - c) Existing utility poles may be used if location allows proper lighting of the intersection.
2. Light intensity should fit the environment
  - a) 250-watt HPS luminaires are standard at signalized intersections, but lower wattages should be considered for isolated rural intersections.
  - b) Intersection lighting levels should be higher than surrounding lighted roadway segments
3. For efficiency and to limit light pollution, no direct light from the luminaire should be emitted above 90 degrees.
4. If applicable, the light should be placed in the intersection quadrant containing a mainline right turn lane, to reduce the potential for relocation when improvements are made.

**FUNDING**

*At intersections between two county roads, Scott County will fund the installation, operation, and maintenance of streetlighting as follows:*

1. If installation meets County streetlight warrants, Scott County will pay the installation, operating, and maintenance costs
2. If streetlight installation is not warranted, per County policy, requesting agency will pay the installation, operating, and maintenance costs

*At the intersection of a County Road with a local street, Scott County will fund the installation, operation, and maintenance of streetlighting as follows:*

1. If installation meets County streetlight warrants, Scott County will pay 50% of the installation, operating, and maintenance costs.
2. If streetlight installation is not warranted, per County policy, requesting agency will pay the installation, operating, and maintenance costs.