

RECOMMENDED PRACTICES	PART	PAVEMENT MARKINGS
	SECTION	
	SUB-SECTION	

General

For many years, Alberta Infrastructure and Transportation has mainly used conventional paint lines for highway markings. This type of marking begins to wear as soon as the highway is open to traffic and generally requires painting within one year, depending on traffic volumes.

Guidance provided by conventional paint markings may be inadequate for many months of the year. Pavement markings play a critical role in roadway safety and driver comfort.

Wet Night High Visibility Durable Pavement Markings last much longer before needing replacement (assumed service life of 8 years), and can provide highly visible pavement markings in various weather conditions throughout the year. Installing durable pavement markings is estimated to reduce collision costs by 2.5% when compared to roadways with conventional paint markings.

Standard

Considering the safety benefits and other advantages over conventional paint markings, durable pavement markings offer an excellent investment opportunity when traffic volumes are high enough.

Based on an economic analysis, durable pavement markings should be applied in the following cases:

- On four-lane divided highways where the AADT exceeds 15,000 and the pavement condition is good (remaining service life of at least 8 years);

- On two-lane undivided highways where the AADT exceeds 5,000 and the pavement condition is good (remaining service life of at least 8 years).

Where durable pavement markings are to be implemented, all longitudinal marking types on that section of highway (i.e., center lines, edge lines, lane lines) should be durable pavement markings.

Guidelines for Placement

Durable pavement markings should be installed using the proprietary installation method for that product.

When installing durable pavement markings, proven products from the Alberta Infrastructure and Transportation Products List should be used. However, for trial applications, products classified as “trial products” or “potential products” may be used. The use of “trial” or “potential” products should be coordinated with Technical Standards Branch. The product selected for use will depend on the roadway environment.

Pavement marking configurations shall be applied in accordance with the Highway Pavement Marking Guide.

References to Standards

<i>Highway Pavement Marking Guide, 2nd Edition, 2003</i>
<i>Alberta Infrastructure and Transportation Products List</i>