

**19.1 Painted Roadway Markings - General**

Painted Roadway Markings on bridge decks and approach roadways consist of lane lines, edge lines and directional arrows or dividing lines. This work varies from simple for short bridges where the work zone is isolated from traffic, to complex on major bridge maintenance and rehabilitation where heavy volumes of traffic are travelling through the work zone.

**19.2 Environmental Constraints**

- Prevent soil and water contamination from paint, oil and chemical leaks or spills.
- Immediately clean up any accidental spills and diligently report hazardous material spills.

**19.3 Safety**

Refer to Alberta's Occupational Health and safety Regulation, General Safety Requirements for specific approved requirements:

- Part 3 Health and Safety Plan
- Part 4 Hazard Assessment, Elimination and Control
- Part 15 Personal Protective Equipment
- Part 16 Powered Mobile Equipment

The Contractor is responsible to accommodate traffic safely through the work zone.

**19.4 Material**

The Contractor shall supply paint and glass bead materials from the current edition of the approved product list. The Contractor shall submit written confirmation from the manufacturer that the materials supplied meet all specified requirements.

The Contractor shall provide the Bridge Inspector with the following information prior to commencing the work:

- Names and mailing addresses of the suppliers and manufacturers.
- Paint formulation.

No paint formulation shall be diluted or mixed with different formulation or with any other material without the specific approval from the Department.

### **19.5 Application**

Centrelines and shoulder lines are to be 100 mm wide. Broken centrelines are 3 m in length followed by a 6 m space. The painted lines are to match the existing lines exactly, unless otherwise determined by the Bridge Project Engineer.

The substrate surface is to be clean, dry and at least 10°C in temperature during paint application. The paint application rate for all painted messages and lines is 0.4 l/m<sup>2</sup> of actual painted area. The glass bead application rate is 600 g/l of paint. Messages and lines initially applied at less than the specified rate as determined by the Bridge Inspector shall be repainted at the expense of the Contractor.

All painted markings are to be uniform in thickness with no spatter, excessive overspray, or other defects.

Construction and public traffic are not permitted to travel on the painted markings until after the paint has sufficiently cured.

### **19.6 Checklist**

#### **19.6.1 Bridge Inspectors Responsibilities**

- Review applicable specifications and study drawings.
- Obtain relevant Material Safety Data Sheets and be familiar with the information they contain.
- Obtain the following information/documentation from the Contractor:
  - Written confirmation from the manufacturer that the materials supplied meet all specified requirements.
  - Name and mailing address of the suppliers and manufacturers.
  - Paint formulation.
- Record environment conditions and ensure the substrate surface is dry and at least 10°C in temperature during paint application.
- Check to ensure no construction and public traffic travel on the painted markings until after the paint has sufficiently cured.
- Check to ensure that painted markings meet all specified requirements.

- Reject defective work. All defective work is to be corrected, at the expense of the Contractor, to the satisfaction of the Bridge Inspector.
- Initiate payment when work is acceptably completed.