

PART 1 - GENERAL

1.1 WORK INCLUDED

- .1 This section specifies the requirements for the application of pavement markings. The Work consists of the furnishing of all materials, tools, equipment and labour to lay down pavement markings for the delineation and control of traffic.
- .2 Those materials which are not specified and/or indicated but are necessary for the complete installation of the work shall be deemed the responsibility of the Contractor and shall be included at no extra cost to the Contract.

1.2 RELATED REQUIREMENTS

- .1 Section 32 12 16 – Asphalt Paving

1.3 REFERENCES

- .1 Uniform Traffic Control Devices for Canada, (4th Edition), latest revision.

1.4 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00 – Submittal Procedures for items listed in Supplementary Specifications.

1.5 MEASUREMENT FOR PAYMENT

- .1 No measurement for payment will be made for pavement markings. Include the costs incidental in the unit price for either Asphalt Paving – New Full Depth Asphalt or Asphalt Paving – 50mm Asphalt Overlay as appropriate.

PART 2 - PRODUCTS

2.1 GENERAL

- .1 All material supplied shall be new.

2.2 TEMPORARY PAVMENT MARKINGS

- .1 Paint: to CGSB 1-GP-74M. Color to conform to CGSB 1-GP-12C, 505-308 for yellow and 513-301 for white.
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- .2 Reflectorized self adhesive marking tape.

2.3 PERMANENT PAVEMENT MARKINGS

- .1 Yellow paint: to CGSB 1-GP-74M. Color 505-308 and to CGSB 1- GP-12C. Add 75 g/L titanium dioxide and 100 g/L lead chromate.
- .2 White paint: to CGSB 1-GP-74M. Color 513-301 and to CGSB 1-GP-12C. Add 150 g/L titanium dioxide.
- .3 Glass beads: overlay type and to CGSB 1-GP-74M, premix type to CGSB 1-GP-149M.
- .4 Marking tape: 3M Stamark 380IES or equivalent.

2.4 CONTACT CEMENT

- .1 3M Stamark Surface Preparation Adhesive P-50 or equivalent.

PART 3 - EXECUTION

3.1 GENERAL

- .1 Location and dimensions as indicted on drawings or as directed by Departmental Representative.
- .2 Thoroughly clean pavement surface of all dirt, dust, oil, surface water, and pavement markings that have been previously or poorly applied.
- .3 Thoroughly clean distributor tank before refilling with materials of different colour.
- .4 Layout pavement markings in accordance with the Uniform Traffic Control Devices for Canada (4th Edition), latest revision.

3.2 PAINT

- .1 Apply paint only when air temperature is above 12 degrees Celsius and in dry weather.
 - .2 Apply markings to within a tolerance of 12 mm of the dimensions indicated with a 5 mm maximum deviation in any 3.0 metre of length.
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- .3 Apply paint under pressure at a rate to achieve a point thickness of not less than 0.253 mm (10 mils) when sprayed on the surface.
- .4 Apply glass beads to lane markings. Do not apply glass beads to crosswalks, stop bars, arrow, symbols and letters. Apply glass beads at a rate of 300 gm².

3.3 MARKING TAPE

- .1 Apply marking tape only when the air temperature, pavement temperature, and weather conditions meets or exceeds manufacturer's recommendations.
- .2 Apply markings to within a tolerance of 12 mm of the dimensions indicated with a 5 mm maximum deviation in any 3.0 metre of length.
- .3 Apply marking film into the surface of newly laid asphalt and in accordance with manufacturer's recommendations. Roll marking tape into the asphalt surface using a two-wheel or three-axle tandem roller.
- .4 Protect newly laid markings from traffic by barricades or cones or other suitable method until asphalt has cooled or markings have set sufficiently so as to not be damaged by traffic.

3.4 TEMPORARY PAVEMENT MARKINGS

- .1 Apply temporary lane markings to Arterials immediately after the placement of each lift of asphaltic concrete. For all other streets, apply temporary lane markings to base course of asphalt if the placement of the surface course of asphalt will not be proceeding within two (2) weeks of the completion of the base course.
- .2 Apply temporary pavement markings to Section 3.2 and 3.3.

3.5 ARROWS, SYMBOLS AND LETTERS

- .1 Prepare templates to match patterns supplied. Obtain approval of all templates prior to use. Arrows to be ¾ size of Transportation Association of Canada standards listed in the Uniform Traffic Control Devices for Canada
- .2 Apply painted arrows, symbols, and letters in accordance with Section 3.1.
- .3 Arrows, symbols, and letters applied with marking tape to Section 3.2