



Infrastructure, Planning & Growth Management  
Traffic and Parking Services

500 George Street North,  
Peterborough, Ontario  
K9H 3R9

Telephone: 705-742-7777  
Fax: 705-876-4621

## Pavement Marking Standard Specifications

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**CP 710.01 Pavement Markings, Durable**

OPSS 710, November 2010, shall apply except as amended and extended herein.

The unit price bid identified in the schedule of unit prices shall be full compensation for the supply and installation of pavement markings on the surface course asphalt as shown on the contract drawing(s). 710.09 has been deleted and replaced as follows: Payment under this item will be actual linear measurement of line placed on the surface asphalt as per specified line type. The unit price bid shall also include all labour, equipment and materials necessary to install, layout, and pre-mark all pavement markings three (3) working days prior to the installation of permanent pavement markings.

Measurement for Zebra Crosswalk is per lineal metre of crosswalk markings including 600 mm solid white lines. The unit price bid shall be based on a Zebra Crosswalk with a nominal outside width of 2.5 m. If field conditions require adjustment of the crosswalk width, the unit price bid will be pro-rata.

Measurement for Ladder Crosswalk is per lineal metre of crosswalk markings including 200 mm and 600 mm solid white lines. The unit price bid shall be based on a Ladder Crosswalk with a nominal outside width of 3.4 m. If field conditions require adjustment of the crosswalk width, the unit price bid will be pro-rata.

All pavement marking symbols (shape and size) shall be as per Ontario Traffic Manual unless specified on the contract drawings.

Pavement Markings, Durable material shall be in accordance with OPSS 1714, February 1991.

Field reacted polymeric pavement markings shall be applied by screed. Field reacted polymeric pavement markings materials recommended for spray application will not be accepted.

It is the Contractor's responsibility to ensure that all pavement markings are installed in accordance with the contract drawing(s). The Contract Administrator will inspect all permanent pavement markings and provide the Contractor with a deficiency list. Faulty pavement markings including but not limited to wavy/non-uniform lines and lines with excessive overflow material or overspray etc., The Contractor is responsible to obliterate and replace all pavement markings identified in the deficiency list at the Contractor's expense.

In the case where permanent pavement markings are to be placed at an intersection prior to traffic signal activation, the Contractor shall submit to the Contract Administrator for review and approval, three (3) working days prior to permanent pavement marking installation, a temporary traffic control plan to manage traffic and pedestrians through the intersection until such time that the traffic signals are in operation.

All pavement markings shall be placed within 10 working days of surface asphalt and surface treatment (i.e.: micro surfacing, slurry seal, etc.) placement.

### **Warranty**

Surface applied durable pavement markings when exposed to normal roadway conditions, must stay in place and not notably deteriorate for a period of at least 24 months, regardless of average daily traffic.

### **CP 710.02 Pavement Markings**

OPSS 710, November 2010, shall apply except as amended and extended herein.

The unit price bid identified in the schedule of unit prices shall be full compensation for the supply and installation of pavement markings on the surface course asphalt as shown on the contract drawing(s). 710.09 has been deleted and replaced as follows: Payment under this item will be actual linear measurement of line placed on the surface asphalt as per specified line type. The unit price bid shall also include all labour, equipment and materials necessary to apply two coats of traffic paint and reflectorizing glass beads, layout, and pre-mark of all proposed pavement markings three (3) working days prior to the installation of permanent pavement markings.

All pavement marking symbols (shape and size) shall be as per Ontario Traffic Manual unless specified on the contract drawings.

Pavement Marking materials are to be in accordance with OPSS 1716, February 1991 It is the Contractor's responsibility to ensure that all pavement markings are installed in accordance with the contract drawing(s). The Contract Administrator will inspect all permanent pavement markings and provide the Contractor with a deficiency list. Faulty pavement markings including but not limited to wavy/non-uniform lines and lines with excessive overflow material or overspray etc., The Contractor is responsible to obliterate and replace all pavement markings identified in the deficiency list at the Contractor's expense.

In the case where permanent pavement markings are to be placed at an intersection prior to traffic signal activation, the Contractor shall submit to the Contract Administrator for review and approval, three (3) working days prior to pavement marking installation, a temporary traffic control plan to manage traffic and pedestrians through the intersection until such time that the traffic signals are in operation.

All pavement markings shall be placed within 10 working days of surface asphalt and surface treatment (i.e.: micro surfacing, slurry seal, etc.) placement.

### **Warranty**

Surface applied waterborne pavement markings when exposed to normal roadway conditions, must stay in place and not notably deteriorate for a period of at least six (6) months, regardless of average daily traffic.

**CP 710.03 Temporary Pavement Markings**

OPSS 710, November 2010, shall apply except as amended and extended herein.

The unit price bid identified in the schedule of unit prices shall be full compensation for the supply and installation of temporary pavement markings on the base course asphalt as shown on the contract drawing(s). 710.09 has been deleted and replaced as follows: Payment under this item will be actual linear measurement of line placed on the surface asphalt as per specified line type. The unit price bid shall also include all labour, equipment and materials necessary to layout and pre-mark all proposed pavement markings three (3) working days prior to the installation of temporary permanent pavement markings.

All pavement marking symbols (shape and size) shall be as per Ontario Traffic Manual unless specified on the contract drawings.

Pavement Marking materials are to be in accordance with OPSS 1716, February 1991.

It is the Contractor's responsibility to ensure that all pavement markings are installed in accordance with the contract drawing(s). The Contract Administrator will inspect all permanent pavement markings and provide the Contractor with a deficiency list. Faulty pavement markings including but not limited to wavy/non-uniform lines and lines with excessive overflow material or overspray etc., The Contractor is responsible to obliterate and replace all pavement markings identified in the deficiency list at the Contractor's expense.

Temporary pavement markings must be maintained to be visible and be reflective until the surface asphalt is placed. The Contractor is responsible to maintain temporary pavement markings at the contractor's expense.

**CP 710.04 Pavement Marking Obliterating**

OPSS 710, November 2010, shall apply except as amended and extended herein:

The unit price bid identified in the schedule of unit prices shall be full compensation for the obliteration of pavement markings as shown on the contract drawing(s). 710.09 has been deleted and replaced as follows: Payment under this item will be actual linear measurement of line placed on the surface asphalt as per specified line type.

The depth of the removal shall be the minimum required to totally remove the existing pavement markings, to a normal depth, typically averaging 3 mm. Pavement marking obliteration on surface course asphalt shall be carried out using a soft abrasive blast cleaning system. The Contractor shall control the operation so that the surface course asphalt is not damaged in any way and to ensure that no pavement marking remains visible upon completion.

The Contractor's operation shall be carried out in accordance with approved methods as specified in the DSM (Designated Sources for Materials) listing for Line Removal

Systems, Pavement Markings, so as to control any dust or effluent generated by the operation.

Measurement for pavement marking obliterating is per lineal metre of existing pavement marking removal. The unit price bid shall be based on obliterating a line with a nominal width of 150 mm. If field conditions require adjustment of the width of line to be obliterated, the unit price bid will be pro-rata.

Grinding is an acceptable method for obliterating pavement markings on base course asphalt.

### **CP 710.05 Short Term Pavement Markings**

The unit price bid identified in the schedule of unit prices shall be full compensation for the supply and installation of pavement markings on the surface course asphalt as shown on the contract drawing(s). 710.09 has been deleted and replaced as follows: Payment under this item will be actual linear measurement of line placed on the surface asphalt as per specified line type. The unit price bid shall also include all labour, equipment and materials necessary to layout and pre-mark all pavement markings three (3) working days prior to the installation of permanent pavement markings.

Short term pavement marking material shall be in accordance with OPSS 1715, February 1991.

OPSS 710.07.06 is amended by adding the Contractor shall also apply short term pavement marking for stop bars and crosswalks at signalized intersections.

Short Term Pavement Markings in Table 1 of OPSS 710.07.07 is amended to indicate the maximum length of time before permanent markings are placed is ten (10) working Days.