



# Florida Department of Transportation

**CHARLIE CRIST**  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

**STEPHANIE KOPELOUSOS**  
SECRETARY

April 5, 2007

Dr. Leslie McCarthy, PhD, P.E.  
Program Operations Engineer  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: Office of Design, Specifications  
Section 710  
Proposed Specification:7100400

Dear Dr. McCarthy:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Painted Pavement Markings - Application.

This change was proposed by Stefanie Maxwell of the State Construction Office to (1) Clarify the spec so that it is understood that all painted pavement markings initial value is 300 or 250 and remove the designation to work zone pavement markings. (2) Want the 14 day requirement for second application, never intended for this to be deleted on the previous spec change.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or [duane.brautigam@dot.state.fl.us](mailto:duane.brautigam@dot.state.fl.us).

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Duane F. Brautigam, P.E.  
State Specifications Engineer

DFB/dr

Attachment

cc: General Counsel  
Florida Transportation Builders' Assoc.  
State Construction Engineer

**PAINTED PAVEMENT MARKINGS – APPLICATION.**  
**(REV ~~01-05-04-02-07~~)**

ARTICLE 710-4 (Pages 738 and 739) is deleted and the following substituted:

**710-4 Application:**

**710-4.1 General:** Remove existing pavement markings, such that scars or traces of removed markings will not conflict with new pavement markings, by a method approved by the Engineer. Payment for marking removal will be in accordance with 102-5.98.

Before applying traffic stripes and markings, remove any material by a method approved by the Engineer that would adversely affect the bond of the traffic stripes.

Apply traffic stripes and markings only to dry surfaces, and when the ambient air and surface temperature is at least 40°F and rising. Do not apply traffic stripes and markings when winds are sufficient to cause spray dust.

Apply traffic stripes and markings, having well defined edges, over existing pavement markings such that not more than 2 inches on either end and not more than 1 inch on either side is visible.

Mix the paint thoroughly prior to pouring into the painting machine. Apply paint to the pavement by spray or other means approved by the Engineer.

Conduct field testing in accordance with FM 5-541 and 5-579. Remove and replace traffic stripes and markings not meeting the requirements of this Section at no additional cost to the Department.

Apply all pavement markings prior to opening the road to traffic.

**710-4.1.1 Final Surface:** Painted Pavement Markings (Final Surface) will include two applications of painted pavement markings and one application of retro-reflective pavement markers applied to the final surface. *Wait at least 14 days after the first application to apply the second application of Painted Pavement Markings (Final Surface). Second application must be applied prior to final acceptance of the project.* Apply all retro-reflective pavement markers meeting the requirements of Section 706.

**710-4.2 Thickness:** Apply paint to attain a minimum wet film thickness in accordance with the manufacturer's recommendations.

**710-4.3 Retroreflectivity:** Apply white and yellow pavement markings that will attain an initial retroreflectance of not less than 300 mcd/lx·m<sup>2</sup> and not less than 250 mcd/lx·m<sup>2</sup>, respectively. Measure, record and certify on a Department approved form and submit to the Engineer, the retroreflectivity of white and yellow pavement markings in accordance with Florida Method FM 5-579. *-If the retroreflectivity falls below 150 mcd/lx·m<sup>2</sup> within six months of initial application, reapply the pavement markings at no additional cost to the Department.*

The Department reserves the right to test the markings within 3 days of receipt of the Contractor's certification. Failure to afford the Department opportunity to test the markings will result in non-payment. The test readings should be representative of the Contractor's striping performance. If the retroreflectivity values measure below

values shown above, *reapply* the striping will be reapplied at the Contractor's expense *at no additional cost to the Department.*

~~For work zone markings, ensure that the minimum retroreflectance of white and yellow pavement markings are not less than 150  $\text{med/lx}\cdot\text{m}^2$ . If the retroreflectivity values fall below the 150  $\text{med/lx}\cdot\text{m}^2$  value within six months of initial application, the striping will be reapplied at the Contractor's expense.~~

**710-4.4 Color:** Use paint material that meet the requirements of 971-1.

**710-4.5 Glass Spheres:** Apply glass spheres on all pavement markings immediately and uniformly following the paint application. The rate of application shall be based on the manufacturer's recommendation.

**PAINTED PAVEMENT MARKINGS – APPLICATION.**  
**(REV 4-02-07)**

ARTICLE 710-4 (Pages 738 and 739) is deleted and the following substituted:

**710-4 Application:**

**710-4.1 General:** Remove existing pavement markings, such that scars or traces of removed markings will not conflict with new pavement markings, by a method approved by the Engineer. Payment for marking removal will be in accordance with 102-5.8.

Before applying traffic stripes and markings, remove any material by a method approved by the Engineer that would adversely affect the bond of the traffic stripes.

Apply traffic stripes and markings only to dry surfaces, and when the ambient air and surface temperature is at least 40°F and rising. Do not apply traffic stripes and markings when winds are sufficient to cause spray dust.

Apply traffic stripes and markings, having well defined edges, over existing pavement markings such that not more than 2 inches on either end and not more than 1 inch on either side is visible.

Mix the paint thoroughly prior to pouring into the painting machine. Apply paint to the pavement by spray or other means approved by the Engineer.

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