



**SUPPLEMENTAL SPECIFICATIONS
FOR
HIGH-BUILD WATERBORNE PAINT PAVEMENT MARKINGS**

**Effective Date
November 15, 2011**

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SUPPLEMENTAL SPECIFICATIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

09014.01 DESCRIPTION.

Furnish and install permanent high-build waterborne paint pavement markings with glass beads.

09014.02 MATERIALS.

- A. Provide high build waterborne paint listed in Materials I.M. 483.03 Appendix C.
- B. Bead application rate, bead gradation, and bead coating is at the discretion of the Contractor. Provide a bead package that will ensure initial retroreflectivity requirements consistently at or above the minimum.

09014.03 CONSTRUCTION.

- A. Meet requirements of Article 2527.03 of the Standard Specifications except as modified below.
- B. Supply Engineer with a copy of paint manufacturer's recommendations for applying marking material. Include in recommendations minimum pavement temperature required for painting. Install paint according to manufacturer's recommendations. Provide binder thickness of 0.022 inches \pm 0.0025 inches (0.56 mm \pm 0.06 mm). Demonstrate to Engineer at start of work the ability to meet initial retroreflectivity requirements.
- C. If paint is to be placed in a groove, then the contract plans will have a bid item for grooving. If plans call for grooving then provide grooves according to Article 2527.03, I. Provide groove depth of 0.080 inches \pm 0.010 inches (2.00 mm \pm 0.25 mm). Provide groove width of design line width plus 1.0 inches (25 mm), with a tolerance of minus 0.0 inches (0 mm) and plus 0.2 inches (5 mm).
- D. For grooving broken lane lines, follow standard pavement marking cycle (10 feet (3.05 m) of marking with 30 foot (9.15 m) space between). Start cycle so most of the existing marking is removed with the groove. Do not use a continuous groove for broken centerlines or broken lane lines. No additional removal of existing markings is required.
- E. Final acceptance will be based on compliance with these specifications. Ensure markings meet the following retroreflectivity requirements.

| Minimum Coefficient of Retroreflectivity (Initial Placement) | |
|---|-----|
| mcd / sq. ft. / ft.-cdl. (mcd / m² / lux) | |
| White longitudinal lines | 300 |
| Yellow longitudinal lines | 225 |

The Engineer will use the procedure in Materials I.M. 386 to determine retroreflectivity.

09014.04 METHOD OF MEASUREMENT.

Apply Article 2527.04 of the Standard Specifications.

09014.05 BASIS OF PAYMENT.

Apply Article 2527.05 of the Standard Specifications.