

# ALABAMA DEPARTMENT OF TRANSPORTATION

DATE: October 31, 2011

Special Provision No. 12-0105

EFFECTIVE DATE: January 1, 2012

SUBJECT: Cross Slope on HMA Pavements (non-NHS).

Alabama Standard Specifications, 2012 Edition, Section 410 shall be amended as follows:

## SECTION 410 HOT MIX ASPHALT PAVEMENTS

### 410.03 Construction Requirements.

#### (a) EQUIPMENT.

##### 4. HOT MIX ASPHALT PAVERS OR SPREADERS.

*The fourth paragraph of this Item (410.03(a)4.) shall be replaced by the following:*

All hot and warm mix asphalt paving machines shall be operated with automatic grade and slope controls unless otherwise directed by the Engineer. (The Engineer will not require operation with automatic slope controls when the requirement for "Match Existing" is given on the plans for the required finished cross slope.) The automatic grade controls shall be a contact ski, a mobile stringline, or non-contact sonic averaging sensors. The effective length of these controls shall be a minimum of 24 feet {7.3 m}. In the event of a malfunction of the automatic control system, the spreading operation shall be discontinued after one hour until the equipment is repaired.

### 410.05 Surface and Edge Requirements.

#### (a) SURFACE SMOOTHNESS REQUIREMENTS.

##### 2. PERPENDICULAR TO CENTERLINE OF ROADWAY.

*This Item (410.05(a)2.) shall be replaced by the following:*

##### 2. PERPENDICULAR TO CENTERLINE OF ROADWAY.

The finished surface of all base, binder, and wearing surface layers shall not vary more than 1/4 of an inch {6 mm} from a 10 foot {3.0 m} straightedge placed perpendicular (at a right angle) to the centerline of the roadway anywhere on the surface.

The required cross slope on tangent sections will be shown as either "Match Existing" or "n %". "Match Existing" shall be the placement of pavement layers without the need for making adjustments to the rates of placement to change the cross slope or superelevation that exists at the time of placement. The letter "n" will be the cross slope in percent. The cross slope "n" will usually be 2 %.

If "n % Approximate" is shown, corrections will be required utilizing milling and/or leveling to bring the cross slopes to approximately n %. Upon completion of the corrective work and paving operations, the resulting cross slopes shall be within a tolerance of plus or minus 0.5 % of the required slope unless shown otherwise on the plans.

When superelevation rates for curves are shown on the plans, the resulting cross slopes shall be within a tolerance of plus or minus 0.5 % of the required slope unless shown otherwise on the plans.