

ALABAMA DEPARTMENT OF TRANSPORTATION

DATE: March 8, 2017

Special Provision No. 12-1118(2)

EFFECTIVE DATE: May 1, 2017

SUBJECT: Planing and Micro-Milling Existing Pavement,

Alabama Standard Specifications, 2012 Edition, shall be amended by replacing Section 408 with the following:

SECTION 408 PLANING AND MICRO-MILLING EXISTING PAVEMENT

408.01 Description.

This Section shall cover the work of removing existing asphalt pavement by either planing or micro-milling. Micro-milling is required to provide a more uniform surface than can be achieved by planing.

408.02 Equipment.

The planing and micro-milling machines shall be:

- self-propelled;
- the size and shape that allows traffic to pass safely through areas adjacent to the work;
- equipped with automatic grade and cross slope controls;
- equipped with a means to prevent dust from escaping the milling operation;
- capable of maintaining the required depth of cut and cross slope;
- furnished with a lighting system for night work if night work is required or allowed by the Engineer;
- provided with conveyors capable of removing the milled material and emptying it directly into trucks to be hauled away from the roadway.

Micro-milling equipment shall be capable of removing pavement to an accuracy of 1/16 of an inch.

408.03 Construction Requirements.

(a) PAVEMENT REMOVAL.

The existing pavement shall be removed to varying depths in a manner which will restore the pavement surface to a uniform longitudinal profile and cross section as shown on the plans or as directed by the Engineer.

The approximate depths of required removal are shown on the plans. The depth of removal may be increased or decreased across the width of the pavement to obtain the required roadway cross slope. The Contractor may make multiple cuts to achieve the required depth of cut.

The pavement removal shall be done to effectively minimize the amount of airborne dust. Wetting of the pavement may be required to minimize the airborne dust.

The Contractor shall provide a means of drainage to prevent water accumulation on the surface where the pavement has been removed.

Unless otherwise noted on the plans, the pavement removal shall be limited to an area that will be covered with a surface treatment or a layer of pavement within the time shown below:

- For planing, within seven calendar days after removal has begun.
- For micro-milling, within 30 calendar days after removal has begun.

The Contractor shall collect, transport and dispose the removed pavement material. The removed material shall become the property of the Contractor unless otherwise noted on the plans.

After pavement removal and immediately prior to resurfacing or opening to traffic, the surface shall be thoroughly swept with a power broom to remove fine material and dust particles. Sweeping shall be conducted in a manner that will minimize the potential for creation of a traffic hazard and minimize the creation of airborne dust. Material removed by sweeping shall be collected, transported and disposed by the Contractor.

(b) FINAL PLANED SURFACE.

The final planed surface shall be a uniform finish on the grade and slope shown to be required on the plans. The finished surface shall also not vary more than 1/4 of an inch from a 10 foot straightedge placed anywhere on the surface of the milled area.

The Contractor shall make adjustments to the planing equipment if these surface tolerances are exceeded.

(c) TEST SECTION FOR MICRO-MILLING.

Micro-milling shall be performed on a test section prior to beginning the micro-milling work. The size of the test section shall be the width of the micro-milling machine and a length of 1000 feet. The difference between the ridge and valley of the milled surface shall not exceed 1/16 of an inch when measured anywhere on the surface of the milled area.

Production micro-milling shall not begin until the Engineer approves the results of the micro-milling of a test section.

The Contractor shall make adjustments to the micro-milling equipment and micro-mill another 1000 foot long test section for evaluation by the Engineer until an acceptable test section has been produced. The Contractor will not be allowed to start production micro-milling until an acceptable test section has been produced. Repeated test sections shall be located in areas that have not been milled.

If the surface of the micro-milling is determined to be unacceptable at any time after production begins, the Engineer will require the Contractor make adjustments to the equipment and produce another test section for evaluation and approval.

Payment will not be made for micro-milling test sections that are unacceptable. Payment will be made after adjustments have been made and the surface of the test section is milled to an acceptable finish.

(d) FINAL MICRO-MILLED SURFACE.

The final micro-milled surface shall be a uniform finish on the grade and slope shown to be required on the plans. The finished surface shall also not vary more than 1/4 of an inch from a 10 foot straightedge placed anywhere on the surface of the milled area. The difference between the ridge and valley of the milled surface shall not exceed 1/16 of an inch.

The Contractor shall make adjustments to the micro-milling equipment and construct a test section for evaluation and approval if these surface tolerances are exceeded.

408.04 Method of Measurement.

The planing of pavement will be measured in square yards {square meters} computed from surface measurements taken to the nearest 0.1 of a foot {0.1 m} on the planed pavement.

The micro-milling of pavement will be measured in square yards computed from surface measurements taken to the nearest 0.1 of a foot {0.1 m} on the micro-milled pavement.

In areas where a non-uniform layer of thickness is removed, the approximate layer thickness will be computed by averaging the depth of cut at opposite lane edges for each travelway at longitudinal measurement intervals of approximately 300 feet {100 m} or as directed by the Engineer. This average depth will be used to establish the item number under which payment will be made.

408.05 Basis of Payment.

(a) UNIT PRICE COVERAGE.

The planing and micro-milling of pavement will be paid for at the contract unit price which shall be full compensation for removing the pavement, collecting, transporting and disposing of the removed pavement and other debris, the removal and disposal of pavement markers, sweeping the pavement and collecting, transporting and disposing of the swept debris and for all materials, equipment, tools, labor, and incidentals necessary to complete the work.

(b) PAYMENT WILL BE MADE UNDER ITEM NO.:

408-A Planing Existing Pavement (Approximately * inches {mm}
thru ** inches {mm} thick) - per square yard {square meter}

408-B Micro-Milling Existing Pavement (Approximately * inches thru
 ** inches thick) - per square yard

* Lower limit of approximate thickness to be removed.

** Upper limit of approximate thickness to be removed.