

**OKLAHOMA DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISIONS  
FOR  
BRIDGE DECK FINISH ON COUNTY BRIDGES**

These provisions amend and where in conflict, supersede applicable sections of the 2009 Standard Specifications for Highway Construction, English and Metric.

**504.01 DESCRIPTION** *(Add the following:)*

This work consists of applying a textured finish to concrete bridge decks on county bridges by using burlap drag or astro/artificial turf methods. The requirements of this provision are intended for county roads meeting the following criteria:

- ADT  $\leq$  400
- Design Speed  $\leq$  45 mph
- Approaches are constructed of gravel

**504.03 EQUIPMENT** *(Add the following:)*

**E. Burlap**

Provide fabric texturing equipment that consists of a drag of seamless strips of burlap or cotton that produces a uniform, gritty texture. Ensure a strip of fabric with a width of at least 3 ft [1 m] is in contact with the full width of the pavement during texturing. Ensure the drag consists of at least two layers of fabric. Ensure the bottom layer of fabric is 6 in [150 mm] wider than the top.

**F. Astro/Artificial Turf**

Provide carpeting for the turf drag that is an artificial grass type having a molded polyethylene pile face with a blade length of 5/8 to 1 inch [15 to 25 mm]), and a total minimum weight of 70 ounces per square yard [mass of 2.35 kg/m<sup>2</sup>]. Ensure the backing is of a strong, durable material not subject to rot, and adequately bonded to the facing to withstand use as specified.

**504.04 CONSTRUCTION METHODS**

**E. Concrete**

**(4) Finishing** *(Add the following:)*

Use either burlap or artificial turf drag to provide a textured surface finish.

**(a) Burlap Drag**

Apply a final texture to the pavement surface after the concrete has been consolidated, screeded, and floated. Obtain the final texture by using a texture drag before the concrete has attained its initial set to produce a uniform surface of gritty texture on the entire driving surface. Mount the drag on a work bridge.

Clean the drag of encrusted mortar. Replace permanently encrusted drags with new ones.

**(b) Astro/Artificial Turf**

Apply a final texture to the pavement surface after the concrete has been consolidated, screeded, and floated. Obtain the final texture by drawing a turf drag longitudinally along the pavement before the concrete has attained its initial set. Mount the drag on a work bridge. Ensure the dimensions of the drag are the width of the driving surface, and a longitudinal length having sufficient surface contact to produce a texture satisfactory to the Engineer. Striations of 1/16 to 1/8 in [1.5 to 3mm] in depth are required after applying the textured finished.

Clean the turf of encrusted mortar. Replace permanently encrusted turfs with new ones.

**504.06 BASIS OF PAYMENT** *(Add the following:)*

Include the cost of applying the textured finish to the bridge deck in other items of work.