

where the edge is not to be abutted by subsequent pavement, base, or shoulder. Measure the edge slump with a straightedge laid on the pavement, base, or shoulder perpendicular to the edge.

Use a planing device or a device consisting of multiple saws to perform corrective work. Use rotary grinders only on isolated irregularities less than 50 square feet. Prohibit the use of bush hammers or other impact devices. Texture all areas of the concrete corrected by grinding in the same manner as the undisturbed pavement, base, or shoulder. When the specified texture is the transverse grooves, texture the ground areas by sawing the transverse grooves. Provide a final surface comparable to the adjacent pavement that does not require corrective work for texture, appearance, or skid resistance. Complete all corrective work within a section before the Department checks the thickness tolerance of that section. The Department will allow corrective work by diamond grinding according to Subsection 503.03.

B) Ride Quality. When the Contract specifies that rideability applies, the Department will measure the ride quality in terms of the IRI and will use the IRI to determine acceptability and to calculate Ride Quality Adjustments.

- 1) Acceptance Testing. The Department will test the ride quality of the pavement for acceptance after the Contractor:
 - a) makes a request at least 2 weeks in advance;
 - b) partially completes the paving and the Department deems it necessary; or
 - c) completes all mainline paving.

The Department will determine the IRI by applying a linear transform, determined by correlation, to the values (average of 2 wheel paths) determined by ASTM E 1926. Thoroughly clean the surface of all dirt and other foreign matter immediately before the Department performs the testing.

The Department will divide and test each traffic lane using 0.1-mile test sections starting at the beginning of the lane and proceeding in the direction of traffic. The Department will exclude discontinuities, such as bridges, in the pavement. When a test section at the end of a lane is less than 0.1 mile long, the Department will include that section with the adjacent section. When deemed necessary, the Department will retest the pavement after any corrective work is completed.

- 2) Category A Requirements. Achieve an IRI of 80 or lower for each 0.1-mile section. When the IRI is greater than 90 for a 0.1-mile section, perform corrective work, or remove and replace the pavement to achieve the specified IRI. At the Department's discretion, a pay deduction of \$1200 per lane mile may be applied in lieu of corrective work.

The Department's testing generates a computer file containing the measured longitudinal profile in terms of elevation values of each wheel track at 3-inch intervals. The Department will create a strip chart from the file showing the elevation and distance traveled when the IRI is greater than 70 or upon request for lower IRI values.

- 3) Category B Requirements. Achieve an IRI of 85 or lower for each 0.1-mile section. When the IRI is greater than 95 for a 0.1-mile section, perform corrective work, or remove and replace the pavement to achieve the specified IRI. At the Department's discretion, a pay deduction of \$750 per lane mile may be applied in lieu of corrective work.

The Department's testing generates a computer file containing the measured longitudinal profile in terms of elevation values of each wheel track at 3-inch intervals. The Department will create a strip chart from the

file showing the elevation and distance traveled when the IRI is greater than 85 or upon request for lower IRI values.

When the Contract does not specify that ride quality requirements apply, straightedge the pavement or shoulder in the presence of the Engineer. Place a 10-foot straightedge parallel to the centerline to bridge all depressions and touch all high spots. Perform straight edging as soon as the concrete has hardened sufficiently to support walking, but not later than 10:00 AM of the day following the placing of the concrete. Plainly mark all high spots, indicated by a variation exceeding 1/8 inch from the straightedge, that are 6 inches or more from the pavement, base, or shoulder edge.

- C) **Corrective Work.** Submit corrective work procedure plans to the Engineer for approval before performing the work. Provide a final surface comparable to adjacent pavement that does not require corrective work in respect to texture, appearance, and skid resistance.

501.03.20 Opening to Public Traffic. Open the pavement, base, or shoulders to traffic anytime 3,000-psi strength is attained, except when curing with wet burlap. When curing with wet burlap, wait at least 72 hours before opening the pavement to traffic.

Complete the construction of shoulders and thoroughly clean the pavement, base, or shoulders and seal all joints, as required, before opening the pavement to traffic other than construction equipment.

Prior to opening the pavement to traffic, other than the construction equipment, complete the construction of shoulders in a satisfactory manner.

When operating any equipment entirely or partially on the pavement, provide means to protect the pavement from damage regardless of its age. Either provide the equipment with rubber-tired wheels or operate the equipment over protective mats designed and constructed to prevent damage to the pavement surface and joints. Use mats consisting of wooden strips having a nominal thickness of 2 inches and a width of at least that of the treads. The Engineer may allow mats made of other suitable material. Sweep the pavement surface free of debris prior to placing the protective matting.

Construct a ramp of compacted earth, or other material of sufficient strength, to prevent undue stress in the pavement slab from equipment moving on and off the pavement.

Open residential entrances to traffic, on which only automobile traffic is expected, only at the end of the 72-hour curing period, or at an attained strength of 3,000 psi. Clean the pavement and seal all joints before opening the residential entrances to traffic.

501.03.21 Tolerance in Pavement Thickness. Core the pavement as the Engineer directs. The Engineer will determine the thickness of the pavement and concrete shoulders according to KM 64-309. The Engineer will evaluate areas of the pavement and shoulders found deficient in thickness by more than one inch. When the Engineer deems the areas warrant removal, remove and replace the areas with concrete of the thickness specified in the Plans.

501.04 MEASUREMENT.

501.04.01 JPC Pavement. The Department will measure the quantity in square yards according to the Plan dimensions as shown in the Record Plans. The Department will determine the final quantity based on the design quantity with increases or decreases by authorized adjustments. Authorized adjustments include changes in the Record Plan dimensions, additional areas not shown in the Record Plans, and errors and omissions in the design quantity in excess of one percent.

The Department will not measure reinforcing steel, load transfer assemblies, dowels, joint construction (including removal of concrete to accommodate a construction joint bulkhead), joint sealing, joint repair, form pins, texturing, additional work for drilling