

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
RIDE QUALITY - BRIDGE DECKS (I-75)

C&T:EMB

1 of 5

11-28-00

a. Description. - This specification provides for an incentive payment to the Contractor for constructing the smoothest riding bridge decks possible. The method of measuring the ride quality of a bridge deck is presented as follows. The bridge deck area includes approaches where appropriate. Where Ride Quality applies, this special provision deletes the fourth paragraph of Subsection 706.03.N.4 of the 1996 Standard Specifications for Construction. For shoulders, refer to Subsection 706.03.N.4 of the 1996 Standard Specifications for Construction.

b. Methods of Determining Pavement Smoothness.-

GM Type Rapid Travel Profilometer

Ride quality of the bridge deck, expressed as RQI (Ride Quality Index) units will be determined by proper reduction of the true profile obtained by a GM Type of Rapid Travel Profilometer in accordance with Michigan Test Method 726.

c. Equipment. - The Contractor will certify in writing that the equipment, manufacturer's calibration procedures and visual inspections are in compliance with this special provision and the applicable Michigan Test Method.

d. Method of Testing.

1. Ride Quality Measurement Plan:

Testing will be done in accordance with Michigan Test Method MTM 726. The Contractor will submit a written Ride Quality Measurement Plan to the Engineer for review and approval prior to the first superstructure concrete deck pour. The Contractor's plan will include, but not be limited to a calibration schedule, the length of the official test runs, method of traffic control, and the testing time frame.

2. The Engineer will review and approve the Ride Quality Measurement Plan.

The Contractor will mark the limits for Ride Quality Measurement as specified in the approved Ride Quality Measurement Plan.