ABSTRACT

Identification of ways to enhance consistency and proper entrained air content in hardened concrete pavement has long been a goal of state highway agencies and the Federal Highway Administration. The work performed in this study was done under FHWA Work Order No: DTFH71-97-PTP-IA-47 and referred to as Project HR-1068 by the Iowa DOT. The results of this study indicate that the monitoring devices do provide both the contractor and contracting authority a good way of controlling the consistent rate of vibration to achieve a quality concrete pavement product. The devices allow the contractor to monitor vibrator operation effectively and consistently. The equipment proved to be reliable under all weather and paver operating conditions. This type of equipment adds one more way of improving the consistency and quality of the concrete pavement.