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7. Author(s) Andrew Bodocsi and Mark T. Bowers		8. Performing Organization Report No.	
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16. Abstract <p>In 1995 and 1996 the Ohio Department of Transportation, in cooperation with the Federal Highway Administration and the Strategic Highway Research Program (SHRP), built a nearly 3.5 mile long Experimental Test Road in the median of the existing U.S. 23 in Delaware County, Ohio. The Test Road is a four-lane, divided and limited access highway. Its southbound two lanes were built using Asphalt Concrete, while the northbound two lanes were built of Portland Cement Concrete (PCC). This report deals with the horizontal movements of the contraction joints in the northbound driving lanes of the PCC pavement. Ten pavement sections were chosen to measure joint movements in both the Winter and Summer seasons. Five consecutive joints were selected in each section. Brass plugs were installed at each joint to allow manual measurement of the joint movements. Measurements were made during the morning and afternoon, both in the Winter and the Summer of 1998. The results were used to investigate the effect of the following factors on the design and performance of joints in PCC pavements with 15-ft joint spacings: strength of concrete, thickness of the PCC pavement, type of base, and range of temperatures. The results provide further data to researchers and designers for the selection of appropriate sealant materials.</p>			
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