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7. Author(s) Shad Sargand, Glenn A. Hazen		6. Performing Organization Code	
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16. Abstract <p>An instrumentation plan and installation techniques were developed for a full-scale asphalt concrete test pavement. Six asphalt pavement test sections were constructed over an asphalt-treated base, cement-treated base, New Jersey base, Iowa base, 8 inch 304 base and 6 inch 304 base. Upon completion of test sections, moisture, temperature, vertical deflections, pressures, and strains were measured as the pavement was subjected to non-destructive testing. Data were compared to predictions of a finite element model. Field data indicate that the deflection of asphalt with asphalt-treated base varies significantly with change in temperature. Deflection of the pavement over cement-treated base was the lowest. Among the non-treated bases, the bases with the larger aggregate experienced less deflection. The OU-PAVE finite element program predicted with reasonable accuracy maximum deflection and the deflection profile.</p>		13. Type of Report and Period Covered Final Report	
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