Accelerated Implementation of INTELLIGENT COMPACTION

The intelligent compaction (IC) roller measures and records the stiffness of the soil during the compaction process. This innovative tool is equipped with a global positioning system to create a map that shows the coverage and relative stiffness across the entire surface of each lift of soil. The system controller on each roller is preloaded with a 3-D model of the project to correlate all coordinates, elevations, and stationing. Color coding of the real time information on the operator’s control screen indicates soft spots in the soil, allowing operators to know exactly where they need to roll again for optimal compaction and technicians to know which areas may need further evaluation.

The DELIVERY of IMPROVED PAVEMENT PERFORMANCE

Provides uniform pavement support
Eliminates premature pavement failure
Reduces life-cycle costs $$$

Research references SPR-3709:
“Intelligent Compaction - Soils, Data Interpretation, and Risk/Reward Assessment”
December 2012 - August 2013
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The below photos were taken at the Kokomo project during the performance of specialized testing that corresponded with IC data collected from the roller.

**ADVANCED TECHNOLOGY FOR QUALITY ASSURANCE**

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