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Green Cross for Safety® Awards 2026 Finalist | Innovation

Longview Bridge and Road - LBR-SCAN QR Code Safety Equipment Inspection Initiative

In heavy highway and bridge construction, equipment moves constantly between projects, operators and regions. Longview Bridge and Road identified a critical limitation of paper inspections: a hazard could be documented yet remain in a truck, binder or equipment book before reaching the person responsible for correcting it.

LBR developed a bilingual QR Code Equipment Safety Inspection and Repair Reporting System that transforms each pre-operation inspection into immediate, traceable action. A unique QR code affixed to each unit allows an operator to scan with a phone or tablet, complete the required inspection in English or Spanish, and report defects at the point of use. Each submission captures the equipment, operator, jobsite, condition and repair need, creating a real-time record accessible to field supervision, safety and maintenance personnel.

By Aug. 4, 2026, the system had recorded 678 inspections, demonstrating sustained field adoption and identifying repair needs involving lights, tires, hoses, brakes, backup alarms and fluid conditions. It strengthens accountability, accelerates repair notification and follow-up, preserves inspection history and provides enterprise-wide visibility. Most importantly, it closes the gap between recognizing a hazard and correcting it, helping prevent unsafe equipment from being placed into operation.