

# Case Study



## Gallahan Travel Plaza Roller-Compacted Concrete Reconstruction

**E&B Area Office:** Kokomo

**Customer:** Gallahan Travel Plaza

**Designer:** E&B Paving



### Project Overview and Implementation

#### Overview

This case study demonstrates the viability and benefits of roller-compacted concrete (RCC) pavement for heavy duty parking lot applications.

RCC is a stiff, zero-slump concrete mixture comprised of coarse and fine aggregates, Portland cement, fly ash and water. Using our vibratory roller equipment and screed technologies, E&B Paving's experts place and roller compact the RCC pavement (RCCP) in a similar manner as our asphalt pavement construction solutions. During this process, concrete compaction begins immediately at the paver and continues throughout the roller stages until the pavement meets density requirements.

E&B's parent company, Irving Materials, Inc., produces imix® Roller Pave, a commercial grade RCC mix designed to withstand the weight of manufacturing and agricultural equipment, as well as large trucks.

You can learn more about RCC by visiting [www.ebpaving.com/site/solutions/roller\\_compacted\\_concrete/](http://www.ebpaving.com/site/solutions/roller_compacted_concrete/).

#### Implementation

Located at the intersection of US Highway 31 and US Highway 24 in Peru, Ind., Gallahan Travel Plaza is a 24-hour auto and truck center serving thousands of truckers and motorists daily with fuel, maintenance, dining and convenience store services. They are a long-time E&B Paving customer.

The Gallahan lot where truckers park their rigs during breaks was in disrepair. While Gallahan's owners originally considered simply resurfacing the existing asphalt lot, they contacted E&B Kokomo for guidance and potential alternative paving solutions.

Following an analysis of the lot and its usages, we recognized asphalt resurfacing would not have supported Gallahan's long-term needs, so we recommended both asphalt and RCC pavement construction options.

Gallahan's selected the RCC approach given the product's durability benefits for heavy-duty applications such as this truck parking lot. With support from IMI, E&B replaced the existing 6" of asphalt pavement and installed 1,980 square yards of 6" Roller Pave RCC in the lot.

