

# Railcar Loading Project Sugar Creek, Missouri

## Lafarge Corporation

Lafarge Corporation contracted **DRG** to put together a plan to modify the rail yard, civil site work and electrical modifications for an estimated construction cost of \$3 million.

The rail yard connects to the Burlington Northern Santa Fe railroad with two No. 11 main line switches. The rail yard was designed to accommodate at least 45 empty rail cars and 45 loaded rail cars in addition to trackage for moving, staging and loading 10 rail cars at the new cement silos. The rail yard includes approximately 8,500 LF of track and nine No. 9 turnout switches for flexibility in car movement. **DRG** was responsible for the railroad tracks design, material and installation specifications, cut and fill calculations, earthwork details, demolition plan and utility coordination. The new track layout required relocation of approximately 600 LF of 30-inch PCCP water transmission main and design of surface drainage structures and pipes.

The electrical modifications included a rail yard lighting plan and details, interior lighting and motor control center for the cement loading facility, wire and conduit to the operating equipment for power and controls, and a motor control center with AFD's for a cement transfer system. In addition, the cement loading facility required the relocation of an existing 4,160-volt overhead power line.



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