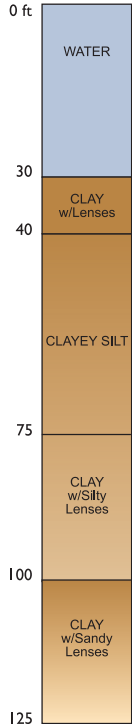


# Ouachita River Bridge, Monroe, Louisiana



Monroe's DeSiard Street Bridge swing span was replaced with a new bob-tailed swing span. The driven piles used to support the existing railroad swing bridge had become unstable due to scour, requiring a new foundation. LA DOTD temporarily stabilized the existing foundation with riprap, and then decided to permanently fix the existing support piers with a new drilled shaft foundation. Case Atlantic installed drilled shafts for support of the new swing span and bridge operator's house.

- Client** Johnson Brothers for LA DOTD
- Challenge** To protect the existing structure, penetrate the original riprap repair to install the drilled shafts, and to maintain unobstructed traffic on the waterway. Due to limited access, a single crane was used to lift 35-ton, 9-ft dia x 156-ft rebar cages with CSL tubes attached.
- Scope** Four, 4-ft dia x 80-ft shafts, four, 6-ft dia x 80-ft shafts, six, 9-ft dia x 125-ft shafts
- Access** Barge-mounted operation in a navigable waterway
- Schedule** Completed within 3-month schedule
- Method** Permanent casings, wet method (polymer slurry)
- Testing** Crosshole Sonic Logging (CSL)