

Bryden Farnsleigh Relief Sewer, Cleveland, Ohio
Client: Northeast Ohio Regional Sewer District

- Scope: 2,600 feet of 48" tunnel
- 1,400 feet of deep open cut triple sewer (8", 18", 36")
 - 3,000 feet of deep open cut single sewer (36")
 - 60 dual house connections

Value: \$4,700,000

This project had three different challenges. The initial parts were open cut through a tight, older residential street which then led onto a major road roadway. The first stage required the installation of the new relief sewer under the existing alignment of the local sanitary sewer that was also replaced in the same ditch. Bypass pumping and temporary connections were required to maintain service.

The next stage was the installation of a triple sewer which included the new relief sewer and the replacement of the local storm and sanitary sewer. Unforeseen interferences and a weak water system required changes. Triad proactively found the solution. This phase continued on without delay and in fact beat a milestone deadline for future street repaving.

The final phase was the tunnel installation. This was done with our Akkerman tunnel and pipe jacking equipment. The tunnel was excavated in silty clay. Pipe jacking lengths ranged from 460 to 700 feet. This project was completed ahead of schedule.

