



A23 Coulsdon Town Centre Improvement Scheme

The Coulsdon relief road was opened in December 2006. Now completed the 1.73Km road is expected to reduce the traffic running through the town centre by 80%..



A23 Coulsdon Town Centre Improvement Scheme

The scheme was to build a new road alignment of the A23 to bypass the town centre of Coulsdon, a small Surrey Town on the edge of Greater London.

Client:

Transport for London

Contractors Designers:

Scott Wilson

Tony Gee and Partners

Form of Contract:

ICE 7th Edition

Construction Period:

2004 - 2006

Value:

£38,000,000

Although commencing several months late the Smitham Station Box Jack was successfully completed within the planned 4-week programme on 27th April 2006. Works had commenced on 29th March 2006 and progressed 24-hours a day 7-days a week including throughout the Easter Weekend.

The 8500-tonne structure was moved 35- metres from its construction position during the combined mining and jacking operation. Jacking contractors Mammoet/CT de Boer, from Holland, provided jacking forces of up to 14500-tonnes to move the box, whilst Welsh mining contractors Mc Burney Civils excavated and removed over 12000-tonnes of chalk from the face.

HOCHTIEF UK Jacking Managers Paul Todd and Andy Slade supervised and coordinated the complex operation

assisted by the rest of the Project team and designers Tony Gee and Partners. The tunnel jacking was divided into three pushes, each roughly 12 m in length and taking around eight days. During this time the average rate achieved was around 200 mm in 30 minutes. Apart from two breaks at eight-day intervals to reset the jacks, the 29-day operation carried on 24 hours a day with staff rotating in 12 hour shifts.

With the box in position the mining shield was broken up and removed and the remaining works in and around the structure undertaken, allowing the new A23 to pass beneath the station.

Although some minor maintenance of the track was required occasionally during the works, **not a single "train minute" was lost.**