

132—142 Hampstead Rd, London

John F Hunt



Costain Skanska
JV on behalf of HS2



Confidential



46 weeks

Project Overview

Located on Hampstead Road, buildings 132-140 formed the original BHS warehouse which was subsequently used by the UCL School of Architecture and Design, with building 142 being a former petrol station.

The TFL red route occupied one elevation, whilst Network Rail's signal box and main railway out of Euston was situated on the other, with the live Northern line underground tunnels below.

Demolition of 2 separate 3 and 5 double height story buildings down to and including the basement slab, pile caps and foundations. The removal of asbestos and 2 full 20,000 litre diesel tanks from the basement. Crushing on site won demolition arisings, enabling the backfill of the basements up to road level.



Challenges

Structural investigations and floor load testing to allow for the use of 20t machines on the floors.

Temporary works schemes for the scaffolding, hoarding, crawler crane mat and the retention of retaining walls from the basement to the ground floor.

Installation of steel propping at basement level, utilising the existing strip foundations to negate the need for the installation of thrust blocks.

Interface with Network Rail for hoarding and scaffold design and installation.

Use of crawler and mobile cranes.

Use of a demolition curtain for the removal of the petrol station canopy, due to the tight interface between the footpath and the hoarding.



Achievements

One team approach between HS2, CSJV and John F Hunt ensured completion on time and within budget.

Zero accidents or injuries.

Reduction of 12,000 plant movements due to the on-site crushing of site won material.

Value engineered the basement propping and back fill sequence to reduce the amount of temporary works required to allow for the follow on piling works.