

# CANNON STREET STATION, LONDON

Client Hines UK  
Value c £10.4m  
Duration Sept 2007 to July 2009 (Phased)



The removal of Asbestos contaminated materials had to be carried out while keeping the station fully operational.

The removal of the sprayed insulation to the soffit of the cab service road had to be done while keeping the road in service throughout the works. To accomplish this a specially designed working deck was constructed and installed.

All asbestos from structural steel and windows from all 24 elevations were removed while keeping the platforms fully operational.

- Types of asbestos removed - Chrysotile, Amosite, Crocidolite
- 350 tonnes of asbestos removed

## Key Elements

- Demolition of the 17 storey tower above the live Cannon Street Station, London
- Completion of Type 3 Asbestos Survey
- Removal of all Asbestos
- Removal of all contaminants
- All works interfaced with LUL, Network Rail and train operators
- Installation of all protection decks to station
- Stripping and partial demolition of station
- Demolition of station roof above tracks
- Excavate and form foundation below station
- Extensive archaeological dig and attendance
- Construction of concrete transfer structures
- All documents subject to LUL+NR approval

## Scope of Works included:

### Decontamination

Type 3 Asbestos Survey, followed by removal of all Asbestos and other identified contaminants, including air conditioning gases, (These contain CFC's – a known "greenhouse" gas).

### Demolition

**Demolition of the 17 storey office tower above the live, Cannon Street Station concourse and a further 9 storey, office building above the station roof.**

All works were undertaken in coordination with the Main Contractor, Laing O'Rourke, Network Rail, London Underground and other trade contractors. The station was kept open by means of a carefully devised passenger access plan, whereby passenger routes were diverted from time to time, according to the programme.



This careful coordination allowed the phased demolition, enabling works and new construction to take place in a live station environment. As part of the sequence involved demolition works above and within the live station, MGL designed and installed innovative protection arrangements that formed an integral part of the public protection/separation regime. Party wall works to the adjacent building were carried out as an integral part of the scheme, allowing protection and temporary weatherproofing. All demolition materials were removed via a combination of various luffing jib cranes, erected and dismantled as works progressed.

### Enabling and Groundwork

In order to make best use of programme time, the enabling and investigation work for the new construction foundations were carried out within the arches below the station, as the demolition of the buildings above the station was progressed. A MOLas watching brief was in place for the enabling works under the arches, as the site overlaid pre existing roman remains.

### Temporary Support Work

In advance of the existing station structural support being removed beyond an agreed point, temporary supports and propping schemes were designed, fabricated and installed. This then allowed load transfer from the existing structure onto the temporary supports, allowing the demolition works to continue into the basement. The new building cores were advanced, by use of the temporary support, in order to construct the new station roof slab which then allowed demolition of the existing station roof.

### RC Transfer Structures

Where parts of the station existing fabric were to be modified to allow parts to be removed permanently, heavily reinforced transfer structures were built within the existing station platforms. All these works were completed within the working station environment, with the requirements of the Main Contractor, City of London and current legislation being met and managed by our dedicated Project Management Team. All documents were subject to LUL+NR approval regime in order to allow timely commencement of the works.