

Bill Boley Project Profile

Total Solutions in Controlled Hydraulic Movement and Jacking

Project Designation/ Location

To lower a section of the steel-framed glass roof at Boris Johnson's headquarters at Westminster City Hall, Central London, which had been erected blocking an air conditioning vent.

Client

Robert McAlpine

**Sir Robert
McALPINE**

End Customer

City of Westminster



City of Westminster



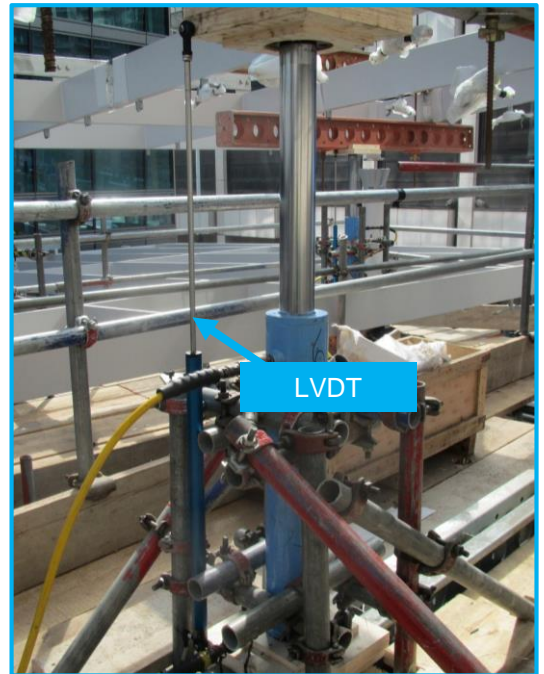
Project Challenge

To lower large steel and glass roof section weighing 20 tonnes by 300 mm in very confined space. This part of the roof sits above the larger section, on the side of the City Hall. It was too long to use a crane and access is very limited.

Bill Boley Solution

10 hi-lift 20 tonne jacks (shown opposite) with a stroke of 500 mm were installed beneath the roof on specially erected scaffolding. The jacks were connected to a computer controlled console (below centre), which ensured the lowering was carried out uniformly, without putting uneven stress in the roof. LVDTs were used in conjunction with the jacks to measure the distance.

Health and Safety issues were of paramount importance during this tricky project.



Additional photographs



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Bill Boley

"Controlled Hydraulic Movement"