



## **Consulting Engineers**

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### **Underpinning to party wall 8/9 Southampton Place**

#### **Proposed Construction Sequence**

The following sequence is proposed to allow underpinning to be carried out in advance of demolition of no. 9

1. Excavate pits no. 1 in sequence max width 1.2m
2. Cast underpin to foundation to no. 8, and allow specified shrinkage period
3. Dry pack foundation to no. 8
4. Cast temporary underpinning to no. 9, flooded tight under existing foundation to no. 9
5. Backfill access pit with compacted granular fill
6. Repeat for pits no. 2, 3 etc.
7. Break out temporary underpinning locally to erect struts (if required)
8. Excavate thrust blocks, erect struts, and cast thrust blocks
9. Complete excavation

All underpinning to no.8 to be strictly in accordance with underpinning specification.

The underpinning to no. 9 is strictly temporary. It is designed to prevent significant settlement of the wall to no. 9, but not to completely prevent movement.

Drypacking is therefore not required. Instead concrete is to be reasonably fluid, well vibrated, and poured under a head in a letter-box shutter, to maximise penetration to the back of the shutter.