

6.3 NEW DISTRIBUTION ROUTES

6.3.1 South Basement Corridor

Prepared with Steensen Varming & Alan Baxter

Widened South Basement West Trench

At the western end of the South Wing at Level 01, the internal trench is proposed to house both HV cables and LTHW pipework. This requires a trench with of c.1700mm wide. The existing trench in this location, along the red line in the Level 01 plan to the right, was surveyed as 820mm deep and 1080m wide. Consequently the existing trench here will need to be widened, though the 820mm existing depth is sufficient for the proposed distribution. The 1700mm width is the same dimension as openings within brick arches measured on site within the corridor, and record drawings show foundation depths and foundation corbelling in this area falling predominantly outside the location of the widened trench, meaning no major foundation works are likely to be required.

New South Basement East HV Trench

A new trench for HV cables will be required running through rooms B/1/007, B/1/168, with high level distribution through the stair B/1/So2. This trench will be formed as an RC Trench 600mm wide by 750mm deep (internal dimension) and its construction will require the decant of collections in B/1/007.

Widened South Basement East LTHW Trench

Like the western end of the South Basement, the existing trench at the eastern end is not large enough to house the proposed new services. Therefore the existing trench will have to be widened to 1000mm and made deeper to 900mm to accommodate the new distribution.



Key:

- Existing retained services trenches below ground
- Existing retained services at high level
- New services route below ground
- New high level services route
- Existing services route to be enlarged/adapted below ground
- Existing services route to be adapted above ground
- Existing services route to secondary plant rooms to be retained

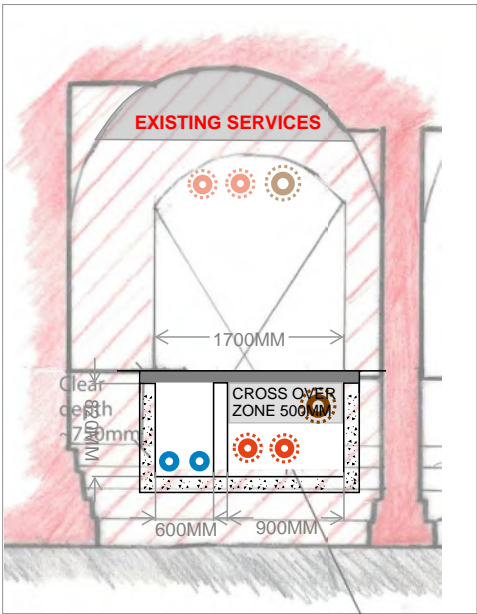
Clockwise from top left:

Alan Baxter Associates sketch of the proposed widened South basement west trench

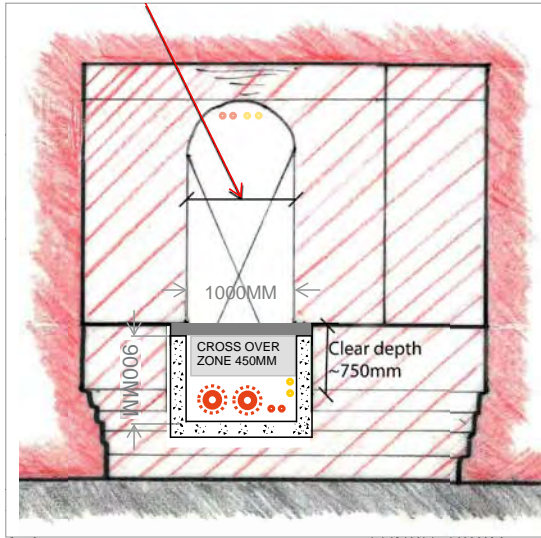
Steensen Varming sketch of the proposed services in the widened South basement west trench

Steensen Varming/Alan Baxter Associates sketch of the proposed services in the new South basement east trench

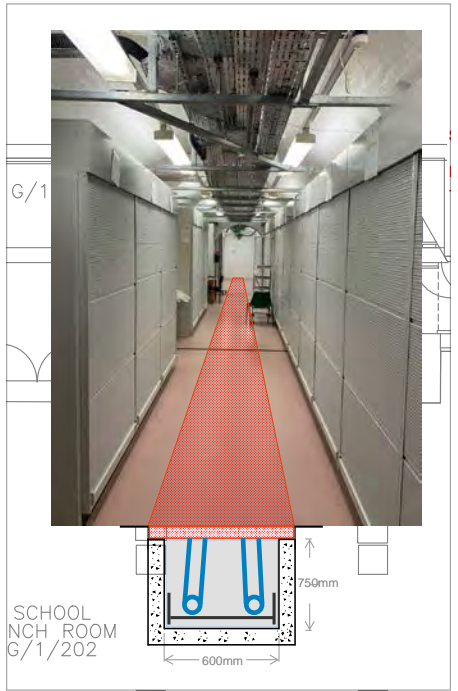
Illustrative diagram of Level 01 South basement trench works as adapted from Steensen Varming drawings



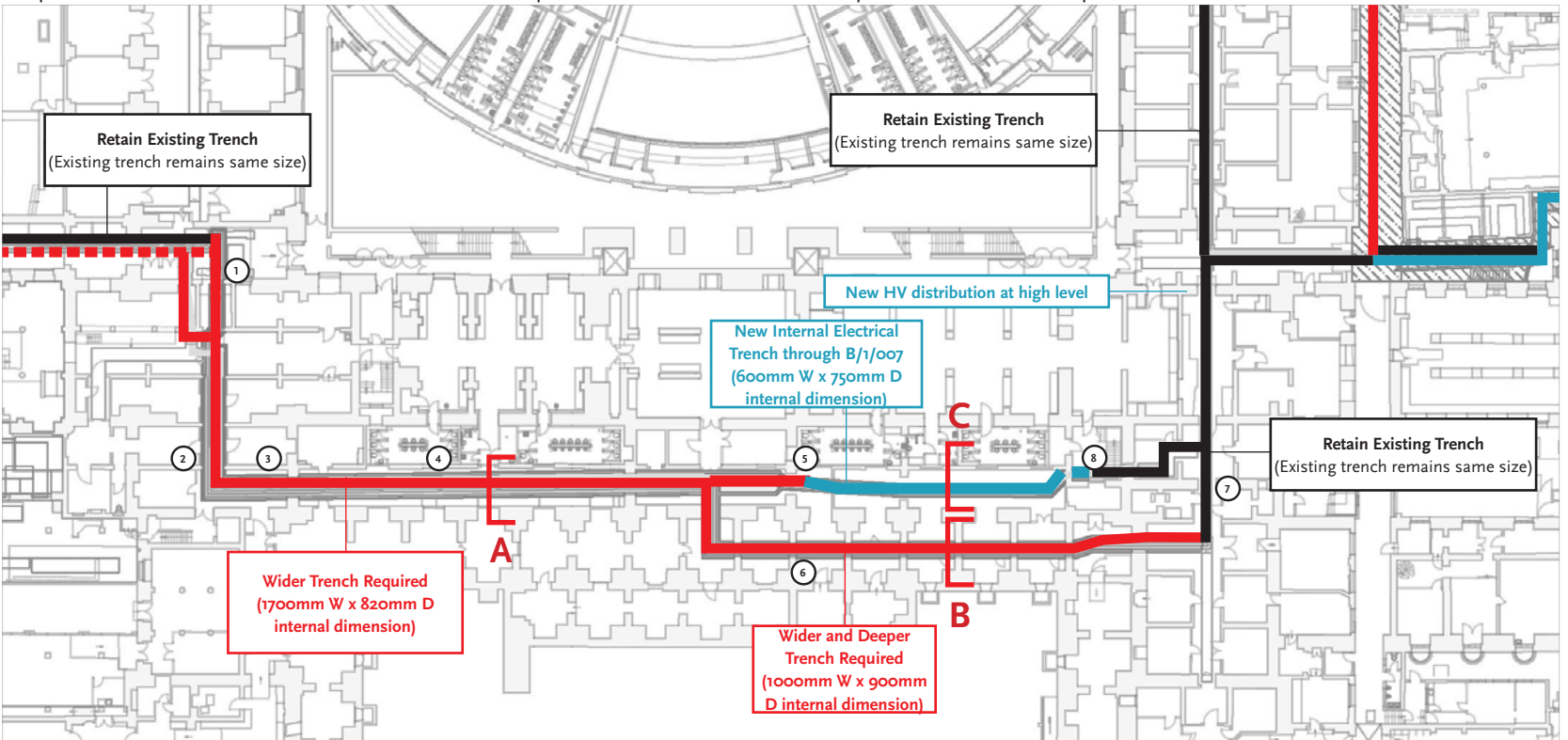
Proposed Section A widened trench



Proposed Section B wider and deeper trench



Proposed Section C new HV trench



Proposed Level 01 plan

Key:

-  Existing retained services trenches below ground
-  New services route below ground
-  New high level services route
-  Existing services trench route to be enlarged/ adapted below ground
-  Existing services route to be adapted or replaced in same location above ground

Right:

Existing basement corridor photographs showing proposed trench distribution indicatively overlaid in red dash.

