North Road & North Basement Corridor

Prepared with Steensen Varming & Alan Baxter

Internal distribution within the North Basement Corridor

To the western end of the North Basement Corridor, existing services trenches will be retained as is, with existing services pipework retained if possible.

Where the existing trench connects to the North Road through store room E/1/033, the existing trench has sufficient width but will need to be made deeper to achieve the 1000m depth required to house the new 200mm dia LTHW pipework.

To the eastern end of the corridor, the existing trench will need to be made wider and deeper to achieve a 1060mm wide x 1000m deep internal dimension required to house the new 200mm dia LTHW pipework. Both widened trenches will be formed in RC concrete.

External distribution

The new HV cables buried under the East Road will rise to high level in the North-East Corner and run in a surface mounted 600mm ladder along the north facade of the North Wing.

LTHW pipework will also come from the west in the WCEC external corridor at high level and travel across the North Road adjacent to CR1 and the Wood Store F/1/149.

Some works will also be required internally to CR1 to facilitate access to plant and to facilitate the new incoming distribution pipework.



Proposed Level 01 plan

Evisting retains

- 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:

Steensen Varming sketch of the proposed wider and deeper trench required to the eastern end of the South Basement Corridor

Steensen Varming sketch of the proposed deeper trench required through store E/1/033

Illustrative diagram of Level 01 North Road and North Basement trench works as adapted from Steensen Varming drawings

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Key:

- Exisitng 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.



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