

## **PROPOSAL DESCRIPTION**

- 1.01 As part of the renewal of services on the project, in particular the incoming supplies, it became necessary to provide a new electrical substation to provide adequate supplies to meet the overall design loads on the project.

An electrical substation was incorporated into the new basement in a space (NB.20) adjacent the Intake Room (NB.19) on the southern edge of the basement structure.

In order to meet prescribed internal conditions by the supply authority, it was necessary to provide ventilation to the space.

In addition to ventilation for the substation there was a need to provide considerable amounts of fresh air to the building itself. Rather than a series of uncoordinated fresh air inlets distributed on and around the building the approach taken has been to form one main fresh air inlet shaft.

This had not been foreseen in the original scheme and is therefore not indicated on the approved drawings for this part of the development. The details listed below are intended to regularise the planning position and seek consent for the slightly extended footprint of the new basement structure to accommodate this *ventilation* shaft.

- 1.02 The proposed shaft and details are indicated on the following drawings:

- Location Plan - 601-P-1336-000;
- Existing Basement Plan - 363-208B-TP1;
- Proposed Basement Plan - 363-208C-TP0;
- Existing Section - 363-76-052-TP0;
- Proposed Section - 363-76-050-TP2;
- Main House Fresh Air Inlet - 601-P-1289-000;
- Main House Fresh Air Inlet Detail Plan - 601-P-1345-000.

- 1.03 The electrical substation remains the property of the supply authority, who specify the technical criteria and requirements for the installation of the substation.

The substation was necessary due to inadequate power supply being available on the existing local supply.

- 1.04 An aperture was formed in the perimeter piled wall of the new basement and a reinforced concrete shaft (5.0 x 3.5m) formed on the south side of the new basement.

This runs from the sub-basement level up to the ground level where it is covered with a 'greened roof' lid that has been incorporated into the landscaping of this area.

This shaft will provide a ventilation conduit for both the substation and large areas of the approved basement development.

Regular maintenance access is facilitated via the basement interior and service stair via Lobby NB.21.

- 1.05 The proposals have been carefully considered in terms of landscaping along the West Hill Wall boundary and the shaft size design so as not to prejudice the establishment of the line of trees and planting along the West Hill Wall inner boundary.

As such the proposal being largely subterranean is not considered to have any adverse effect on the character or setting of the Listed Building.