DESCRIPTION OF PROPOSED COMFORT COOLING AND AERIAL SYSTEMS FOR 21 PARK SQUARE EAST

COMFORT COOLING

It is proposed to install 2 N^0 separate VRV (Variable Refrigerant Volume) systems each comprising of the following:

a. Roof mounted condenser
b. Fancoil Units, built into fitted furniture, above dropped ceilings or in Roof voids.

The fancoil units would be connected to the condensers by copper refrigerant pipework.

The proposed Condenser N^0 1 would serve the following spaces:

c. Master Bedroom
d. Bedroom 2
e. Bedroom 3
f. Bedroom 4

The proposed Condenser N^o 2 would serve the following spaces:

g. Drawing Room
h. Library
i. Dining Room
j. Cinema
k. Gym

2 N^0 systems have been proposed for the following reasons:

l. Splitting the cooling loads ensures that the condensers are small enough to be mounted so as not to be visible from Park Square East or from any other direction.
m. Splitting the loads between those which could be termed as ‘daytime’ spaces and those that which could be termed as ‘nightime’ spaces should ensure that only a single condenser would operate during the ‘Quiet Hours’.

CONDENSER MOUNTINGS

The Roof Valley in which it is proposed to site the condensers is lead lined to falls. In order to remove the need for any fixings to the building it is proposed to mount the condensers on Big Foot Fix-It supports which would simply ‘sit’ on the lead valley. The supports would provide a built-in anti-vibration facility and are environmentally responsible, being largely manufactured from recycled rubber.
The supports would be laid parallel to the fall line of the valley so as not to impede the flow of water to the outlet gully.

AERIAL SYSTEM

It is proposed to install a 40mm diameter non-ferrous aerial mast at Roof level. The mast would support the following:

a) A 'Freeview' TV Antenna

b) A DAB Radio Antenna

c) A 'Sky' TV Dish

The vertical weight of the mast plus Antennae and Dish would be taken on a BigFoot Fix-It support and the mast would be braced, for lateral support, to the existing Chimney Stack using existing 'holes' where possible for fixings.

'Sight' lines are indicated on the drawings accompanying this document which show that the mast and aerials would not be visible from Park Square East.

The 'Sky' Dish would replace an existing installation.

DESIGN INFORMATION

The design information provided by Colin King Associates includes the following:

a. Drawing 10465/PL1 Sheet 1 of 2 Condensers and Aerials at Roof level + Front Elevation + Section through Roof Valley
b. Drawing 10465/PL1 Sheet 2 of 2 Condensers and Aerials at Roof level + Rear Elevation + Section through Roof Valley
c. Drawing 10465 CC2 Rev T1 Comfort Cooling to First Second & Third Floors
d. Drawing 10465 CC3 Rev T1 Comfort Cooling to Basement and Ground Floor
e. An extract from the Daikin VRV Brochure detailing the dimensions of the Condensers
f. An aerial photograph of the Front Elevation and Roof of 21 Park Square East as at today
g. Location Plan
h. A photograph of the Roof Valley of 21 Park Square East also showing the Party Wall and Chimneys which latter are common to both ends of the Valley
i. Big Foot Fix It Foot Brochure

ACOUSTICS

An acoustic survey was undertaken by Cass Allen to determine the background noise levels. The results of the survey and calculations undertaken to show that the proposed condenser installations would meet the requirements of the London Borough of Camden are included in the Cass Allen Report forming part of the Application for Planning Consent.