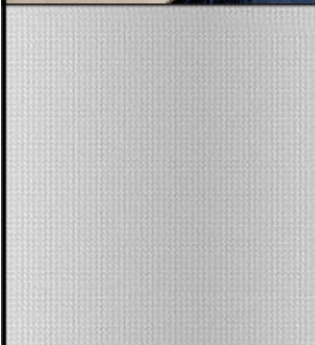
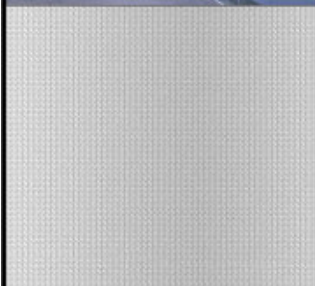
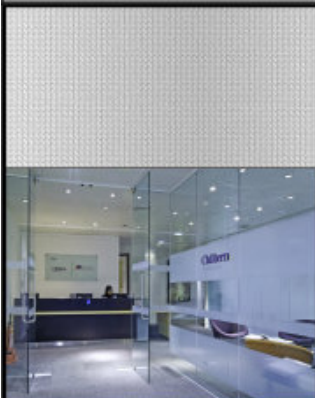




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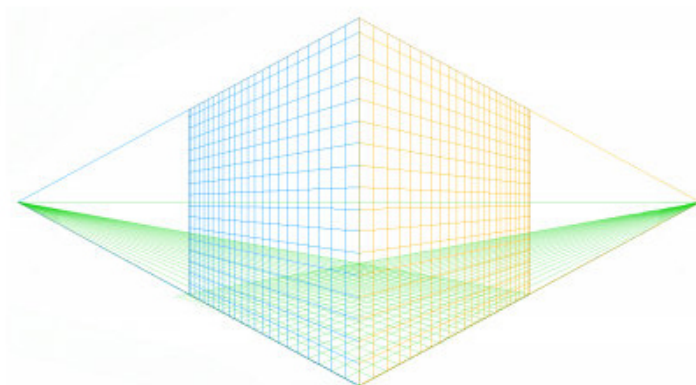
DESIGN SPECIFICATION

for

**THE ROYAL COLLEGE
OF PHYSICIANS**

HOUSES 5, 6, 7 & 8

REFURBISHMENT



Royal College of Physicians
11 St Andrews Place, London
Houses 5, 6, 7 & 8 Refurbishment
Proposed Design Specification

INTRODUCTION

This Specification should be read in conjunction with the Following drawings which form part of this Specification.

Drawing No.s

Houses 5 & 6

AC56_B_2	AIR CONDITIONING LAYOUT - BASEMENT
AC56_G_2	AIR CONDITIONING LAYOUT - GROUND FLOOR
AC56_F_2	AIR CONDITIONING LAYOUT - FIRST FLOOR
AC56_2_2	AIR CONDITIONING LAYOUT - SECOND FLOOR
AC56_2_2	AIR CONDITIONING LAYOUT - THIRD FLOOR
G56_G_2	GENERAL & ELECTRICAL DETAILS - GROUND FLOOR
G56_F_2	GENERAL & ELECTRICAL DETAILS - FIRST FLOOR
G56_S_2	GENERAL & ELECTRICAL DETAILS - SECOND FLOOR
G56_T_2	GENERAL & ELECTRICAL DETAILS - THIRD FLOOR

Drawing No.s

Houses 7 & 8

AC78_G_2	AIR CONDITIONING LAYOUT - GROUND FLOOR
AC78_F_2	AIR CONDITIONING LAYOUT - FIRST FLOOR
AC78_2_2	AIR CONDITIONING LAYOUT - SECOND FLOOR
AC78_2_2	AIR CONDITIONING LAYOUT - THIRD FLOOR
G78_G_2	GENERAL & ELECTRICAL DETAILS - GROUND FLOOR
G78_F_2	GENERAL & ELECTRICAL DETAILS - FIRST FLOOR
G78_S_2	GENERAL & ELECTRICAL DETAILS - SECOND FLOOR
G78_T_2	GENERAL & ELECTRICAL DETAILS - THIRD FLOOR

LOCATION REFERENCES DETAILED ON THE ABOVE
MENTIONED DRAWINGS ARE ASSOCIATED WITH
PHOTOGRAPHS INCLUDED IN THIS DOCUMENT

Overview

The Heritage Guidance Plan produced for the Royal College of Physicians in 2014 was provided by the RCoP and to the best of our knowledge we have complied with the spirit of this document when designing the new services installation.

The proposed works will comprise:

- Removal of all existing Carpets
- Installation of Air Conditioning to all main Offices
- Installation of Additional Floor Boxes including Power & Data Cabling
- Renewal of Distribution Boards
- Refurbishment of 2nd Floor Washroom
- Installation of New Door to Jerwood Centre
- Remove Partition Wall 2nd Floor
- Remedial Works to Damp Damaged Ceiling
- Full decoration of all Offices and Corridors
- Provision of new Carpets throughout

Enabling Works

The initial works to be carried out will comprise the removal of all notice boards and associated fixtures which will not be required in the new scheme.

All existing carpets shall be lifted, and any spares required by the client shall be passed to them. All remaining carpet tiles shall be removed from site.

Electrical Works.

Where detailed on the drawing, additional floor boxes shall be installed.

The existing floor panels in the area shall be carefully lifted to enable access to the floor void below. These works shall be kept to a minimum and only lifted to maintain a route back to the distribution board riser position and using existing routes where possible.



Existing Floor Box
- General Locations
As Shown On The
Design Drawings.

New Floor Boxes
To Match Existing

From our experience it has not been necessary to drill any joists for cable installation as there has been a void below.

New data cabling running between floors shall generally be routed through existing riser cupboards to the basement level House No.5 where they will terminate in an existing data cabinet.

Distribution boards have been renewed in a couple of instances, however those remaining shall be replaced with the miniature circuit breaker type.

All electrical works shall comply with the latest edition of BS 7671:2018 including latest amendment's current at the time of installation.

Additional power supplies provided for the air conditioning system mentioned hereafter shall be run in new surface mini trunking. The trunking shall be painted the same as the wall colour to enable them to be blended in and to be as discrete as possible.

Upon completion, the new electrical works shall be tested, and the appropriate certificates issued.

Air Conditioning System

Three VRF Air Conditioning systems shall be installed. One supplying both houses 5 & 6, One supply house 7 and the Third supplying House 8.

The systems shall be of Toshiba manufacture offering a 5 year parts warranty providing the system is maintained in accordance with the manufacturers recommendations.

Data sheets and schematics for the installation are provided in the appendices.

A/C pipework routes shall be as detailed on the drawings along with photographs where relevant

All pipework installed externally shall be run at the rear of the building, clipped direct To the brickwork and enclosed in Black thermal insulation.

All pipework run internally will be installed in trunking. The Air Conditioning Refnets shall be or encased in newly formed box sections.

Both the trunking and encasements will be painted to match the surrounding walls.

Two new external condensers will be installed in the existing plant area located in the Basement open area located behind houses 5 & 6. Installed in this location are four existing condensers. Two new condensers will be located at either end.

Existing Air Conditioning Units in Basement Open Area



Location 1

Refer to Drawings for Location References





Proposed New Condenser Positions



Location 2



Location 3



Similarly at the Rear of House 7
Within the Basement area and external
Mechanical Plant area exists.
It is proposed to instal the condenser
Supplying House No. 8 between the
Wall and existing duct.



Generally the pipework shall be installed
On the rear of the building encased in Black thermal
Insulation to match the existing flue and
Drainage pipework.



We have endeavoured to find
an alternative locations
to route the pipework internally,
however the existing electrical
services risers are full.



Location 4
Ground Floor - House 6

To conceal the Refnets and pipework in this area, The services shall be installed within the recess above extended office

Second Floor - Horizontal Pipework Route

Locations 5 & 6

To minimise pipework runs and Refnet encasements within Offices, Wherever possible the installation shall be run within Corridors.

