

Client Mr. Vijayantha Porowagoda

Project 332 Sutton Common Road,  
Sutton, Surrey, SM3 9NQ

Job Title Rear Extension and loft  
conversion

Drawing Title PROPOSED LOFT FLOOR

Date Oct 2023 Drawing No.  
RDK/HA/1080/DWG- 06

Revision:

Date:

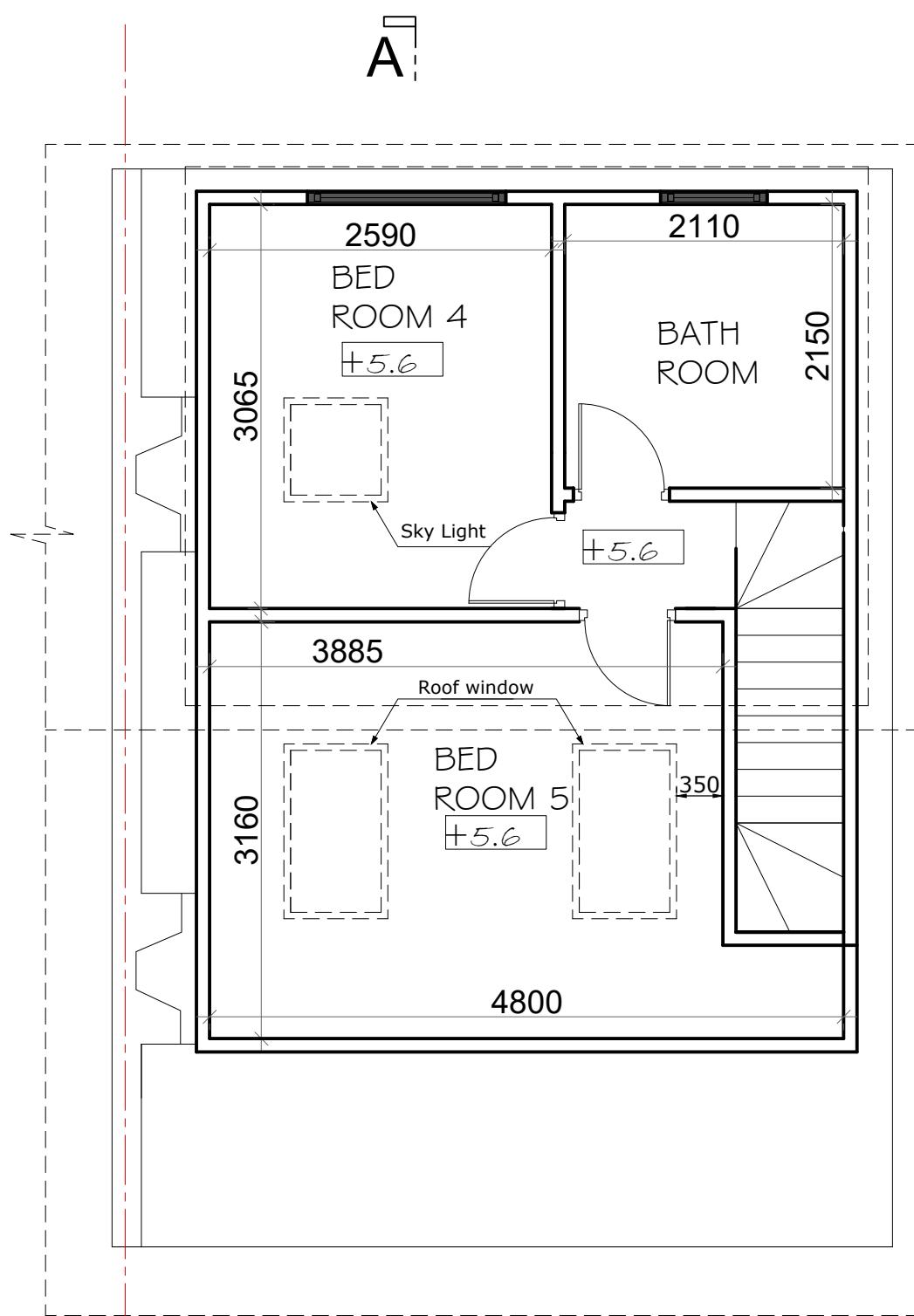
Suitability

Ref Archt. Dwg.

**RDK CIVIL ENGINEERING LIMITED**  
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Scale 1:50  
1:50 1m 0 1m 2m

1:100 Scale 1:100  
2m 0 2m 4m



## PROPOSED LOFT PLAN

SCALE : 1 : 50

— — — — — boundary line  
— Proposed fence

### ELECTRICAL INSTALLATIONS (PART P REGS.)

Where electrical installation is to be carried out, compliance is necessary within the Electricity at Work Regulations 1989. Electrical installations should be enclosed and separated by appropriate distances to provide mechanical and thermal protection so that they incorporate measures that afford protection for persons against the risk of electric shock, burn or fire injuries. Electrical installations should be inspected and tested during, and at the end of installation, before they are taken into service to verify that they are reasonably safe; that is to say that they comply with BS7671:2001.

Provide energy efficient lighting in all living areas and kitchen in accordance with Part L1 B. Ensure that new fittings to habitable rooms have fittings that accept only lamps with a luminous greater than 40 lamp lumens per circuit-watt. Provide minimum 75% energy efficient lighting in all locations.

All light switches, plug sockets and electrical switches to be set between 450mm and 1200mm above finished floor level and comply with Part M of the Building Regs. All internal downlights and recessed spotlights are to be enclosed with minimum half hour fire resisting hoods, to comply with Part L of the Building Regs and the Domestic Building Services Compliance Guide.

### FIRE PRECAUTIONS

Means of escape to be via a protected stairway at all levels leading to a final exit, or give access to at least two escape routes at ground level. All habitable rooms with direct access to the protected stairway to be fitted with doors (##) giving 30 minutes fire resistance (FD30) marked with intumescent strips and fan lights within the stair enclosure to be fitted with 6mm Pilkington Pyroshield glass or Georgian wired glass. Any internal wall glazing within the stair enclosure to be changed to 15mm Pilkington Pyrostop glass.

### GLAZING & VENTILATION

Glazing in all doors to be fitted with safety toughened or laminated glass except fire doors. All external windows and doors to have double glazed units with a 16mm air gap and low-E glass on the inner pane. All new windows to achieve a minimum 'U' value of 1.6W/m and 1.8W/m k for all new doors with more than 50% glazing.

Habitable rooms to have a minimum opening of  $\frac{1}{20}$  of the internal floor area of the room with some part of that being at least 1750mm above finished floor level. Background ventilation is to be provided by trickle ventilators within the window to give a minimum free area of 8000mm<sup>2</sup>.

Safety glass to be used when lower than 800mm above the first floor level, all upper floor windows must be designed with means of escape. Shower/bathroom to have background ventilation of 4000mm<sup>3</sup> and fitted with a mechanical extractor vented to outside air to achieve 15L/S extraction. Existing roof to be provided with proprietary ventilators to achieve the equivalent continuous ventilation of 25mm (eaves) and 5mm ridge.

### SMOKE DETECTION

Mains operated linked smoke alarm detection system to BS EN 14604 and BS 5839 - 6:2004 to at least a Grade D category LD3 standard to be mains powered with back up shown thus Smoke alarms should be sited so that there are smoke alarms in the circulation space on the ground floor hallway, and all upper floor landings. Ceiling mounted alarms should be 300mm from the walls and light fittings.