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To cheeks and gable of dormer fix terracotta horizontal tiles on 50x25 battens, on Kingspan Nilvent breathable membrane, on 9mm OSB. 75mm Kingspan Kooltherm K7 insulation between 150x500mm timber dormer studs. Lined internally with 52.5mm Kingspan Kooltherm K118 insulated plasterboard with 3mm skim coat.
To give a U-Value of 0.18w/m²k.

Build up existing gable in brickwork outer leaf to match existing, 100mm blockwork inner leaf with full fill insulation.

Broken lines indicate existing hipped roof to be removed and new roof built. Existing rafters to be kept in place where possible.

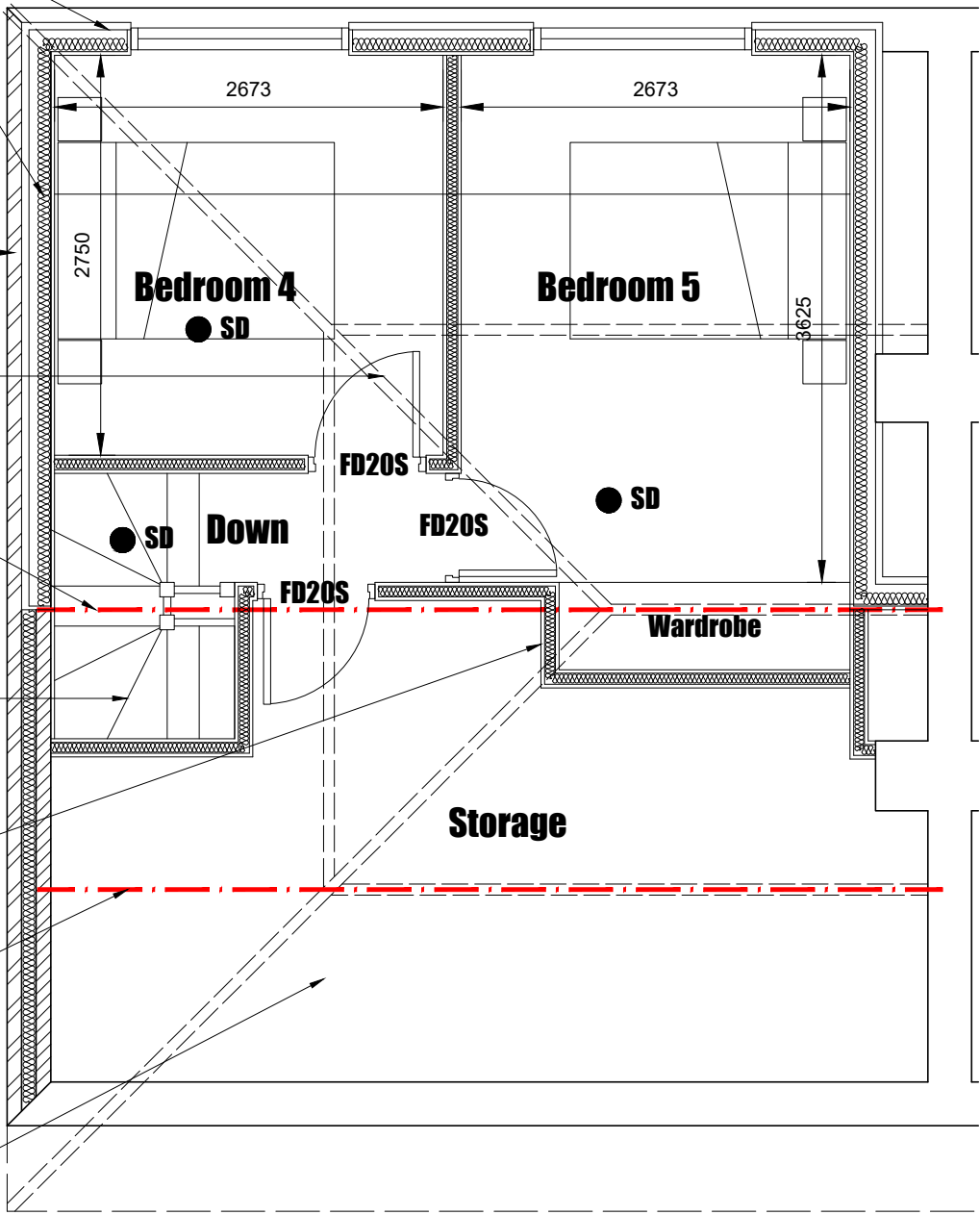
Red broken lines indicate new steel ridge beam inserted to span from gable to gable. Span broken up with new blockwork support wall built off existing cavity wall.

New timber staircase from first to second floor to have a going of 245mm 12no. equal risers, max 220mm riser(max staircase angle of 42°) with a minimum clear headroom of 2m. Balustrade to 1 side of stair min. 900mm above pitch.

Build new stud walls in 75x50mm timber stud and 2 layers of 12.5mm plasterboard and skim to both sides. Fill cavity between studs in mineral wool insulation for acoustic purposes.

Red broken lines indicate new steel purlin inserted to span from gable to gable. Span broken up with new blockwork support wall built off existing cavity wall.

New loft floor to be installed. use 195x75mm C16 joists at 400mm centres. New 18mm ply boarding on top of joists. Line underside where required with 12.5mm plasterboard and skim. Use 150mm Rockwool mineral insulation between joists.



- HD Indicates heat detector.
- SD Indicates smoke detector.
- FD20S 20min fire door.

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JOB TITLE : Hip To Gable Dormer Loft Conversion
ADDRESS : 37 Malvern Road, Alkrington
DRAWING TITLE : Proposed Loft Floor Plan
SCALE : 1:50 @ A3
DRAWN : xxx DATE : 13.09.20

JOB NO./ DWG NO. 631-09