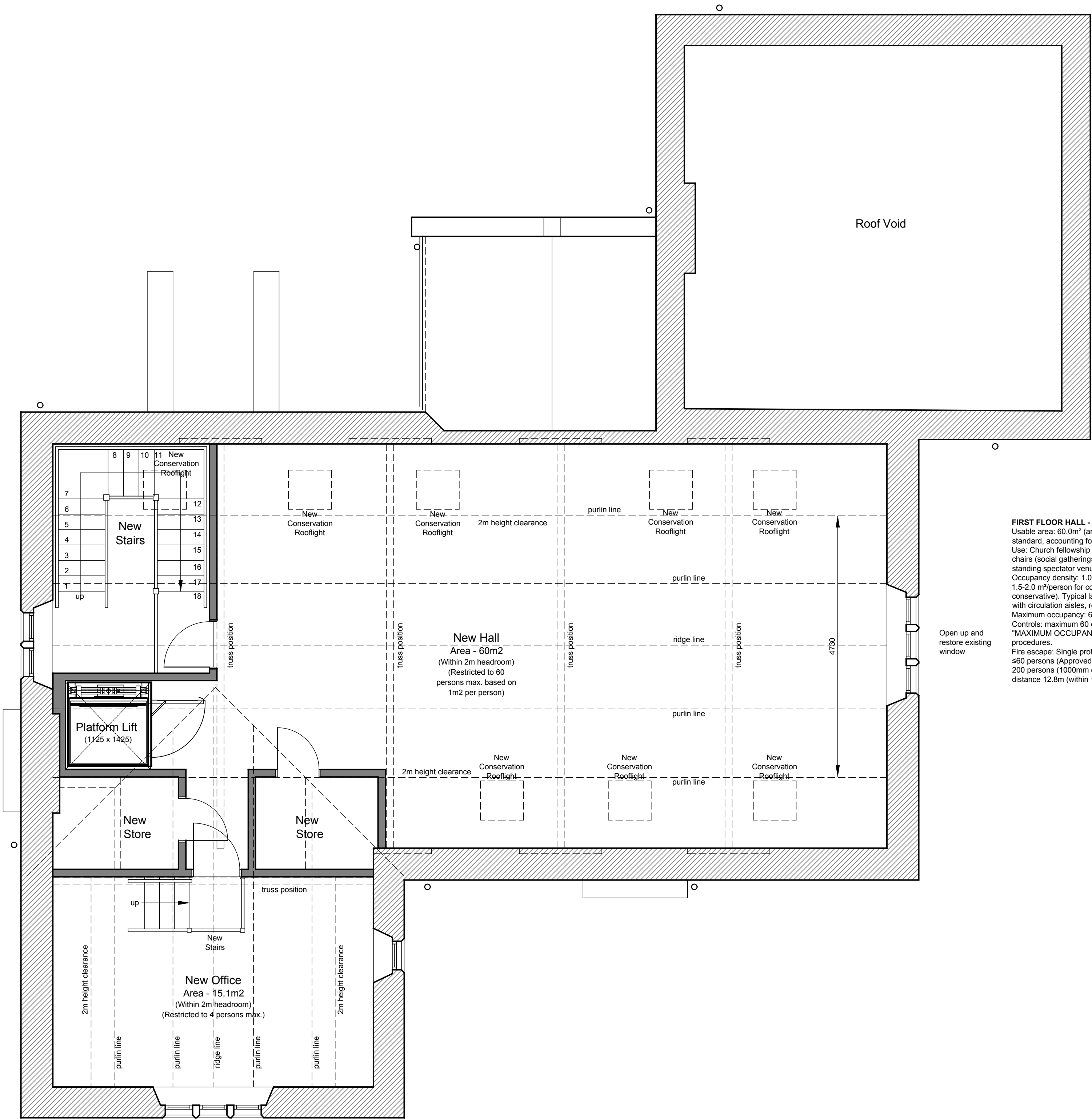


**MAIN STAIRCASE - GROUND FLOOR TO FIRST FLOOR HALL**  
Total rise: 3.235m (18 risers @ 180mm). Footprint: 4.17m x 2.85m.  
Stair width: 1000mm.  
Lower flight: 7 risers, 6 goings @ 280mm = 1680mm going.  
First quarter landing: 1000x1000mm at 1260mm height.  
Mid flight: 4 risers, 3 goings @ 280mm = 840mm going. At 90° to lower flight.  
Second quarter landing: 1000x1000mm at 1980mm height.  
Upper flight: 7 risers, 6 goings @ 280mm = 1680mm going. At 90° to mid flight.  
Top landing: Rectangular landing at 3235mm height leading to first floor hall door.  
Construction: 250x50mm C24 stringers. 38mm hardwood treads with 25mm nosing. 18mm plywood risers.  
Handrails: 50mm diameter both sides. 100x100mm newel posts.  
Timber spindles @ 100mm centres, 1100mm height.

**FIRST FLOOR HALL - OCCUPANCY CALCULATION**  
Usable area: 60.0m² (area with >2.0m headroom per Part K standard, accounting for 52.3° roof pitch).  
Use: Church fellowship hall for seated activities with tables and chairs (social gatherings, meetings, community events). NOT standing spectator venue.  
Occupancy density: 1.0 m²/person (BS 9999:2017 Table 4 specifies 1.5-2.0 m²/person for community halls - 1.0 m²/person conservative). Typical layout: 60 persons at 10 No. 6-person tables with circulation aisles, refreshment area, and entry zones.  
Maximum occupancy: 60 persons (60.0m² ÷ 1.0 m²/person).  
Controls: maximum 60 chairs, permanent occupancy signage "MAXIMUM OCCUPANCY 60 PERSONS", management procedures.  
Fire escape: Single protected stairway acceptable for occupancy ≤60 persons (Approved Document B Section 3.2.1). Stair capacity 200 persons (1000mm clear width ÷ 5mm per person), travel distance 12.8m (within 18m limit).



PROPOSED FIRST FLOOR PLAN

| No. | Revisions | Date |
|-----|-----------|------|
|-----|-----------|------|

Client  
CALNE FREE CHURCH

Project  
PROPOSED ALTERATIONS  
TO CHURCH HALL  
CALNE FREE CHURCH  
CHURCH STREET  
CALNE SN11 0HS

Drawing Title  
PROPOSED FIRST FLOOR PLAN

|  |                                                                    |  |                             |                |
|--|--------------------------------------------------------------------|--|-----------------------------|----------------|
|  | The Studio<br>22 Brickley Lane<br>Devizes<br>Wiltshire<br>SN10 3BQ |  | Scale<br>1:50@A1            | Date<br>MAY 26 |
|  | T 01380 819000<br>E info@drdesigns.co.uk<br>W www.drdesigns.co.uk  |  | Drawn<br>DR                 | Checked        |
|  |                                                                    |  | Drawing No.<br>25005 / P111 |                |
|  |                                                                    |  |                             |                |

