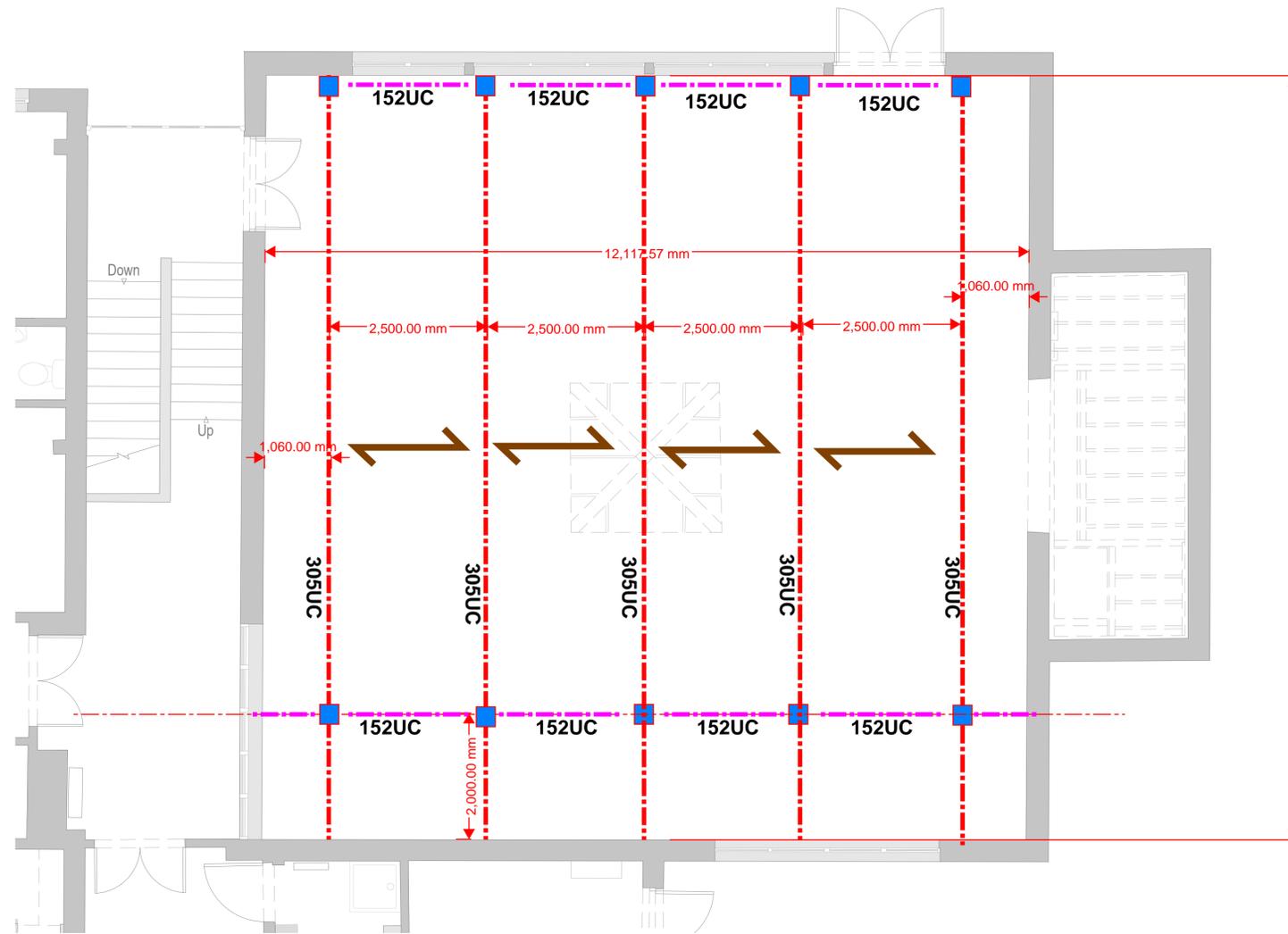


POSSIBLE OPTION 2 - SIMPLE OPTION 340mm BEAM DEPTH - 2.3m CLEAR

5A

200x500 JOISTS

5000mm

2300mm
2300mm
50mm FINISHES
50mm CEILING

340mm STEEL DEPTH

DL = 2.5 x 2 = 5kN/m
LL 2.5 x 2.5 = 6.25kN/m

DEAD DEFLECTION: 7.8mm
IMPOSED DEFLECTION: 7mm

DEAD + 10% IMPOSED = 8.5mm

$(18/6)^2 = 9\text{mm}$ - MAX DEFLECTION

DL = 0.5kN/m² FINISHES / 0.25kNm² CEILING / 1.0kN/m² PARTITIONS / JOISTS/INSULATION/ 0.25kN/m²

DL = 2.00kN/m²
LL = 2.50kN/m²