

## Escape Route Widths

In line with Sections 3.21 & 3.22 of 'Approved Document Part B, Volume 2 – buildings other than dwellinghouses' – the adjacent calculations provide justification for the clear opening widths for escape from each floor level/ room in accordance with Table 4 & Appendix C.

## <u>Basement Floor</u>

Exit 1 Clear Opening Width = 820mm (assume as per 750mm allow 60 persons to escape)

Exit 2 Clear Opening Width = 1262mm (largest opening to be discounted)

Exit 3 Clear Opening Width = 1256mm (assume as per 1050mm allows 220 persons to escape plus an extra person for every 5mm, so an extra 206mm = 41 person, total 261 persons top escape)

Total Aggregate Width for Floor (Less Largest Opening Width of 1625mm from Exit 2) = 820mm (60)+ 1256mm (261)

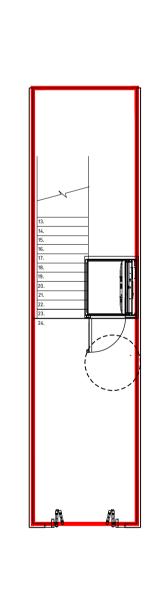
Basement Floor Total Estimated Occupancy Capacity = 321 Persons

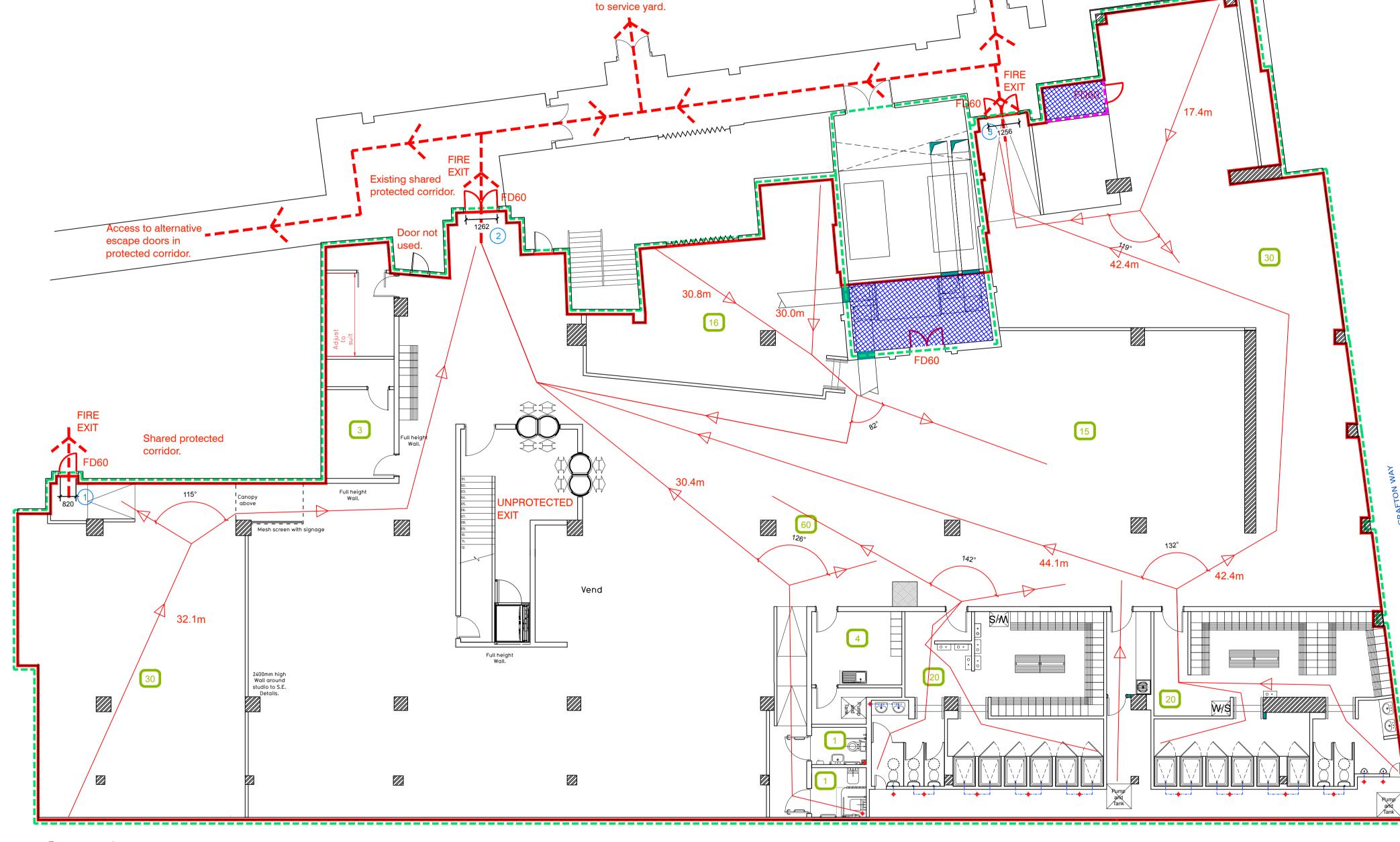
Exit 1 and 3 would allow a max. No. of 321 persons to escape, which is larger than the total estimated occupancy capacity of 200 Persons and is therefore thought to meet with the Approved Document Part B.

## Smoke Ventilaton

Requirement for natural ventilation is one fourtieth of the floor area so 1020m2 (floor area not including changing rooms) / 40 = 25.5m2 remaining ventilation is

remaining ventilation is 29.3m (length of pavement light upto changing rooms)  $\times$  0.9 (width of pavement light) = 26.37m2





Existing escape door

Existing escape door

to service yard.

Ground Basement

