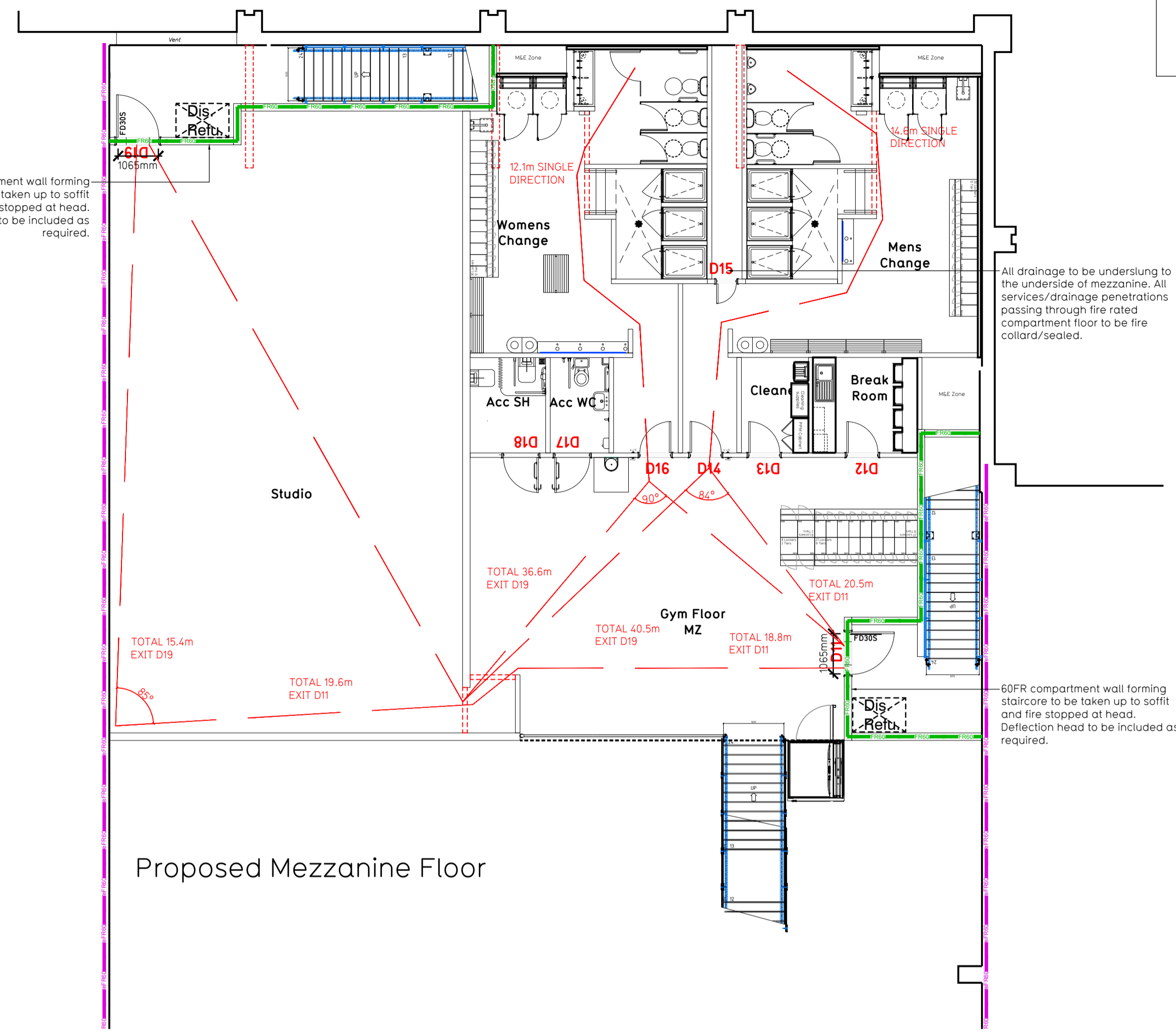


Proposed Ground Floor



Proposed Mezzanine Floor

NOTE:
 • Proposals must comply with all acoustic, fire & building regulation requirements
 • No dimensions are to be scaled from this drawing. The contractor is responsible for checking all dimensions on site

Fire Evacuation Key

- Existing wall to achieve min 30 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor)
- Existing wall to achieve min 60 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor)
- New wall to achieve min of 30min fire rating
- New wall to achieve min of 60min fire rating
- Protected areas: walls, floors, ceilings and doors to achieve 30minute fire resistant construction.
- Protected areas: walls, floors, ceilings and doors to achieve 60 minute fire resistant construction.
- Fire Escape Route
- Minimum Clear Widths
- Exit No.
- Shared Escape Route
- Fire Door Rating

Escape Route Widths
 In line with Sections 3.11 & 3.23 of 'Approved Document Part B, Volume 2 - buildings other than dwellings' - the adjacent calculations provide justification for the clear opening widths for escape from each floor level/ room in accordance with Table 4 & Appendix C.

Ground Floor
 Final Exit D1 limited by Storey Exit D2 Clear Opening Width = 1065mm (allows 232 persons to escape, largest opening to be discounted)
 Final Exit D9 limited by Storey Exit D8 Clear Opening Width = 1050mm (allows 110 persons to escape, limited by merging flow)
 Total Aggregate Width for Floor (Less Largest Opening Width of 1065mm from EXIT D2) = 1055mm

Mezzanine Floor
 Final Exit D6 limited by Storey Exit D11 Clear Opening Width = 1065mm (allows 223 persons to escape)
 Final Exit D19 limited by Storey Exit D19 Clear Opening Width = 1065mm (allows 223 persons to escape, largest opening to be discounted)
 Total Aggregate Width for Floor (Less Largest Opening Width of 1065mm from EXIT D19) = 1065mm

The rear stair core has a merging flow from the Mezzanine and Ground floors and therefore $W = (N/2.5) + (605)/80$ must be used. If N (on door D9) is limited to 110 people and S is 1.4m, then $W = 1600mm$ clear door. This would limit the unit occupancy to 333 persons

Based on N/A of 15732qft, the Puregym max peak occupancy target = 242 persons
 Calculated using Puregym Fire Safety Occupancy Levels Forecast Tool.

The designed occupancy of the unit as calculated would allow a max. No. of 333 persons, which is larger than the total estimated occupancy target of 242 persons and is therefore thought to meet with the Approved Document Part B. To allow free movement between the floors the occupancy has not been split 50/50%, but rather allows for occupancy based on gym stations and function assuming that a high percentage of the total occupancy could be on a single floor at one time.

Fire Alarm
 Fire Alarm designed and installed to BS 5839. Smoke & heat detection / emergency lighting by specialist. Please refer to M&E engineer's drawings / specifications.

Escape Lighting
 Emergency escape lighting designed and installed in accordance with BS 5266: Part 1. Please refer to M&E Engineer's drawings for final layout and specification.

Fire Stopping
 All perimeter edges of mezzanine to be appropriately fire stopped to create compartment floor and protect mezzanine structure. All services/drainage penetrations passing through fire rated compartment floor to be fire collared/sealed. Contractor to submit proposals for design to be reviewed by building control and fire service. Escape Signage and emergency lighting is CDP under the M&E specification. Details of contractors proposals to be provided to Building Control Approved Inspector and Fire Officer within the Contractors Proposals Package, Clause 14.

Mezzanine
 Mezzanine Design CDP: New mezzanine structure including deck and column connections to be 60min FR using a boarded solution. Ceiling to be clear and flat ready to receive decoration. Service penetrations to be coordinated and suitably fire stopped. Contractor to submit proposals for design to be reviewed by building control and fire service. Escape Signage and emergency lighting is CDP under the M&E specification. Details of contractors proposals to be provided to Building Control Approved Inspector and Fire Officer within the Contractors Proposals Package, Clause 14.

Rev	Date	Description	Drawn/Checked																																
C00	01.08.23	Updated max occupancy figure based on new data	CS/PG																																
T01	22.05.23	Updates to changing rooms, lockers and vending units as per latest GRID requirements.	HI/CS																																
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