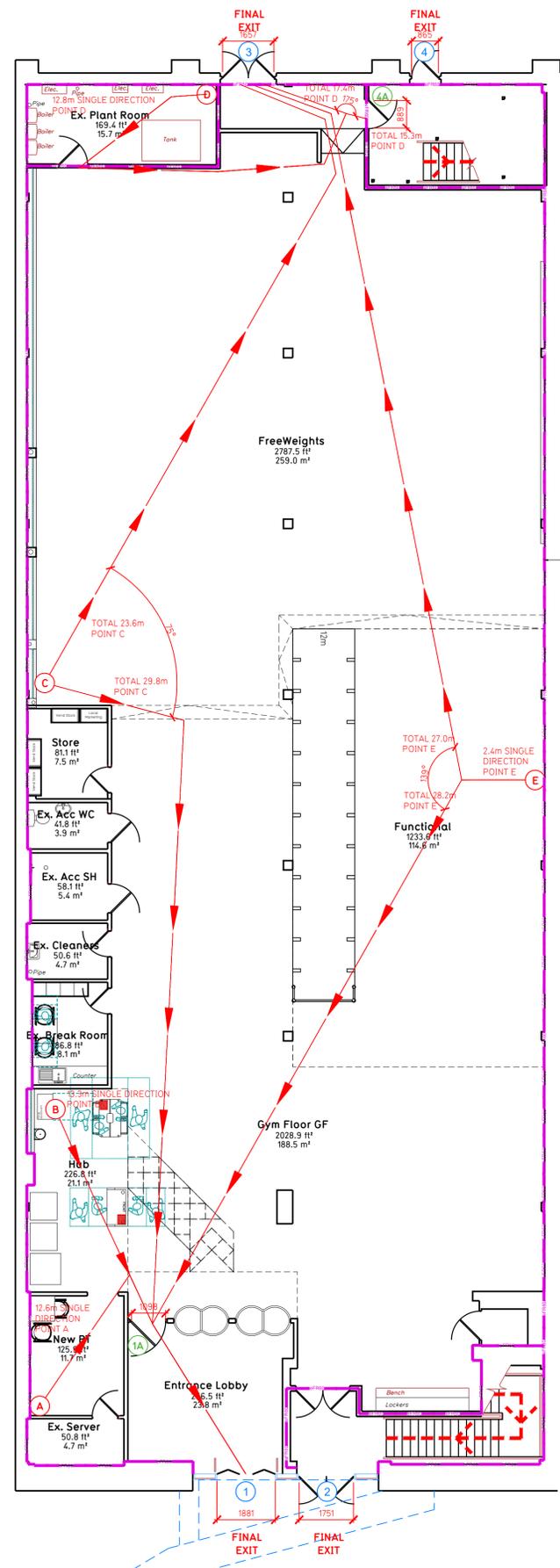
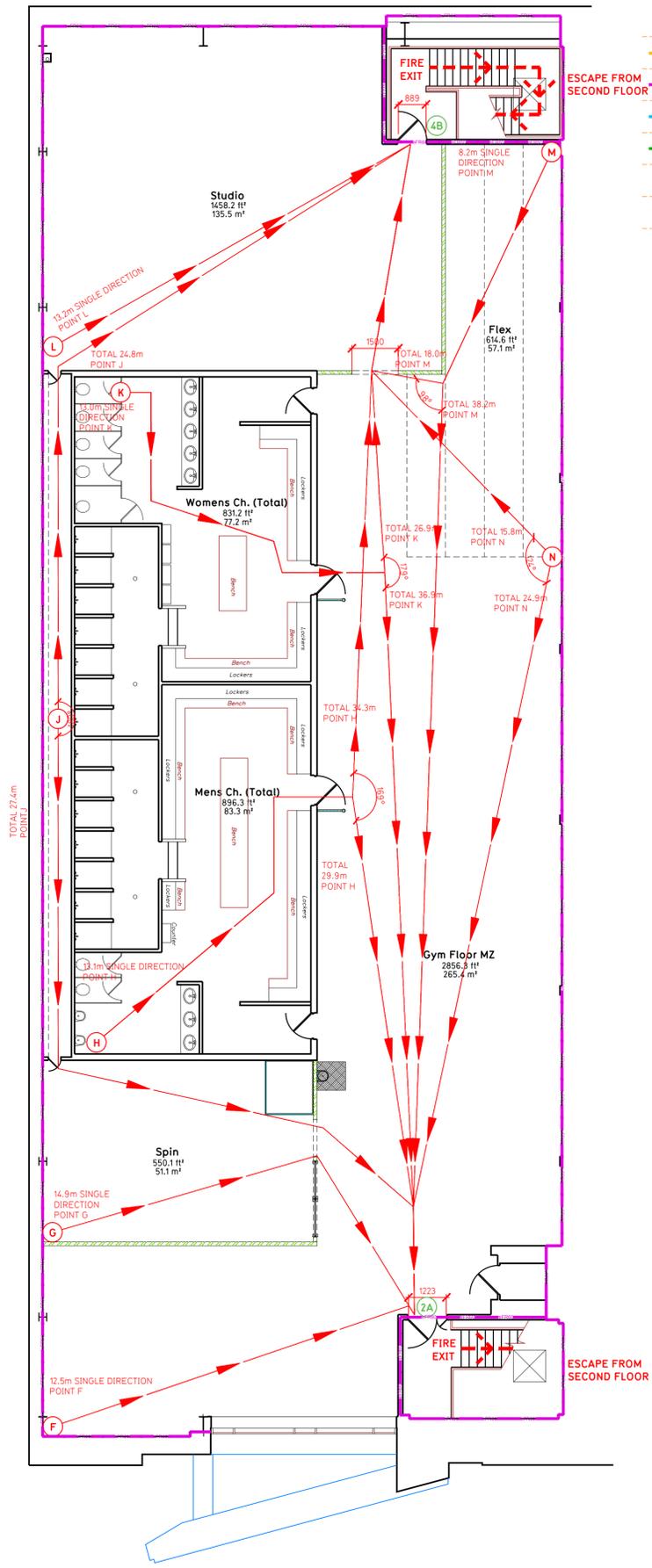


NOTE:

- 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



Proposed Ground Floor Plan



Proposed Mezzanine Floor Plan



Escape Route Widths
 In line with Section 2.9.8 of the Technical Handbook - Non Domestic, the aggregate unobstructed width in mm of all escape routes from a room, or storey, should be at least 5.3 x the occupancy capacity of the room or storey.

Ground Floor
 Aggregate Clear Opening Width of Escape Routes Calculation:
 Final Fire Exit 1 clear opening width = 188mm but is limited by 1A clear opening width = 1038mm
 Final Fire Exit 3 clear opening width = 1657mm
 Point D persons would most likely escape through Final Fire Exit 3 - therefore no merging flow calculation needed.
 Total Aggregate Width for Ground Floor (Less Largest Opening Width of 1657mm from Final Fire Exit 3) = 1038mm
 Ground Floor Maximum Occupancy Capacity = 225 people (based on Scotland Building standards technical handbook 2022: non-domestic 2.9.8)

Mezzanine Floor
 Aggregate Clear Opening Width of Escape Routes Calculation:
 Final Fire Exit 2 clear opening width = 1751 but is limited by 2A clear opening width = 1223mm
 Final Fire Exit 4 clear opening width = 865mm
 Total Aggregate Width for Mezzanine Floor (Less Largest Opening Width of 1223mm from 2A) = 865mm
 Mezzanine Floor Maximum Occupancy Capacity = 225 people (based on Scotland Building standards technical handbook 2022: non-domestic 2.9.8)

Combined Occupancy Provision
 Ground floor maximum occupancy: 225+ Persons
 Mezzanine floor maximum occupancy: 225 Persons
 Total occupancy provision: 450+ Persons

The Robroyston Pure Gym is designed for an average peak occupancy of 240 which is smaller than the max. no. of 450+ persons (see calculation above). Therefore thought to meet with the Section 2.9 of Technical Handbook - Non Domestic.
 It is important to note that 240 people is the peak occupancy figure. Pure Gym Robroyston's average occupancy during everyday operation will likely be approx. 50% lower than peak hour occupancy.

The average peak occupancy operational occupancy of 240 people derives from the vast amount of data collected via 340+ Pure Gyms of comparable size; data collection is conducted through access control ironmongery at turnstiles and can be viewed on Pure Gym app and website.

Escape Distance and Angle of Divergence

Position A
 Total escape distance to nearest Final Exit 1 = 12.5m
 The total escape distance is less than 15m and thus complies.

Position B
 Total escape distance to nearest Final Exit 1 = 13.3m
 The total escape distance is less than 15m and thus complies.

Position C
 Total escape distance to nearest Final Exit 3 = 23.6m
 Distance before divergence is 8m
 A.O.D to be > (2.5 x 0.1) + 45 = 47.5°
 Drawn A.O.D = 75° thus complies

Position D
 Total escape distance to nearest Final Exit 4A = 15.3m
 Distance before divergence is 12.8m
 A.O.D to be > (2.5 x 0.8) + 45 = 77°
 Drawn A.O.D = 159° thus complies

Position E
 Total escape distance to nearest Final Exit 3 = 27m
 Distance before divergence is 2.4m
 A.O.D to be > (2.5 x 2.4) + 45 = 51°
 Drawn A.O.D = 159° thus complies

Position F
 Total escape distance to nearest Final Exit 2 = 12.5m
 The total escape distance is less than 15m and thus complies.

Position G
 Total escape distance to nearest Final Exit 2 = 14.9m
 The total escape distance is less than 15m and thus complies.

Position H
 Total escape distance to nearest Final Exit 2 = 29.3m
 Distance before divergence is 13.1m
 A.O.D to be > (2.5 x 13.1) + 45 = 78°
 Drawn A.O.D = 169° thus complies

Position J
 Total escape distance to nearest Final Exit 4 = 24.8m
 Distance before divergence is 8m
 A.O.D to be > (2.5 x 0.1) + 45 = 47.5°
 Drawn A.O.D = 179° thus complies

Position K
 Total escape distance to nearest Final Exit 4 = 26.3m
 Distance before divergence is 19m
 A.O.D to be > (2.5 x 19) + 45 = 77.5°
 Drawn A.O.D = 179° thus complies

Position L
 Total escape distance to nearest Final Exit 4 = 13.2m
 The total escape distance is less than 15m and thus complies.

Position M
 Total escape distance to nearest Final Exit 4 = 18m
 Distance before divergence is 8.2m
 A.O.D to be > (2.5 x 8.2) + 45 = 65.5°
 Drawn A.O.D = 84° thus complies

Position N
 Total escape distance to nearest Final Exit 4 = 15.8m
 Distance before divergence is 8m
 A.O.D to be > (2.5 x 0.1) + 45 = 47.5°
 Drawn A.O.D = 124° thus complies

Sprinklers
 System design and installed in compliance with BS EN 12845:2015 & LPC Technical Bulletins

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

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

Smoke Extract
 Smoke Extract System to be designed and installed in accordance with BS 7346: Part 8. Please refer to MSE 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 protected mezzanine structure. All services/drainage penetrations passing through fire rated compartment floor to be fire collared/sealed.

Escape Signage and emergency lighting is CDP under the MSE 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 |
|-----|----------|------------------------|---------------|
| 01 | 22.03.24 | Issue for Construction | OT/JM |

PROJECT TITLE
 Robroyston Refurb
 Unit 6, Robroyston Retail Park, Glasgow G33 1AD

DRAWING TITLE
 Fire Evacuation Plan
 Ground and Mezzanine Floor Plans

SCALE
 1:100 @ A1

DRAWING PURPOSE
 CONSTRUCTION

Rev
 000

PUREGYM
 Pure Gym Ltd
 Town Centre House
 The Merrion Centre
 Leeds
 LS2 9LY
 e: architecture@puregym.com
 t: 0113 285 8787
 w: www.puregym.com