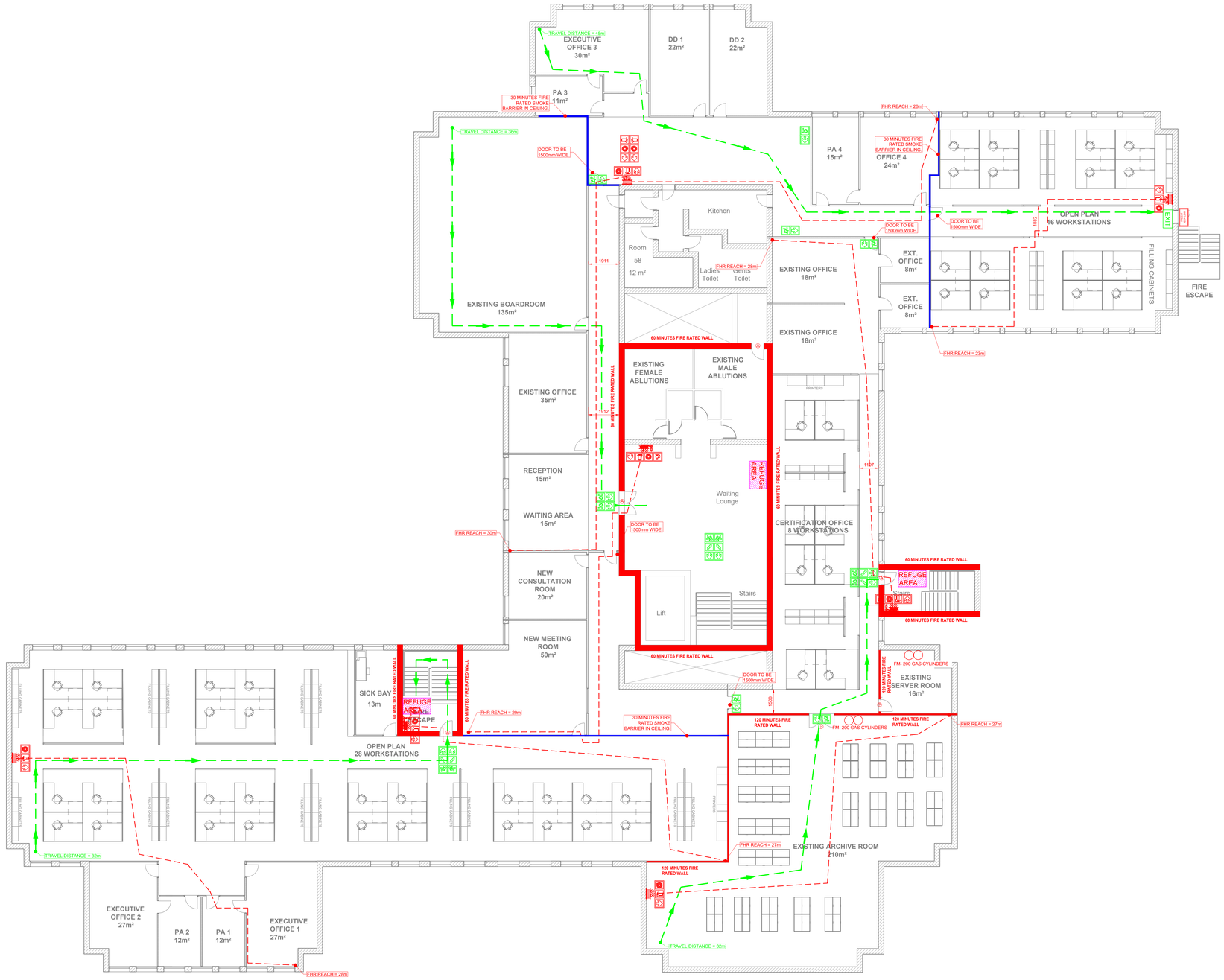

LEGEND

	MANUAL CALL POINT
	COMBINED FIRE ALARM SOUNDER & XENON FLASHING BEACON
FAP	FIRE ALARM PANEL
	HEAT DETECTOR
	SMOKE DETECTOR
	SMOKE CONTROL VENTILATION
	FIRE TWIN BOOSTER CONNECTION
	FIRE HYDRANT
	FIRE ESCAPE DIRECTION
	FIRE WALL RATING
	FIRE HOSE REEL
	4.5kg DCP
	9kg DCP
	5kg CO2
	30m FIRE HOSE REEL & 2 x 9kg DCP
	SPRINKLER POINT

Fire Protection Notes: QCTO,Hatfield,Thutuka Building

1. All work will comply with SANS 10400-T: 2024 and the National Building Regulations and Building Standards Act 103 of 1977.
2. Total area 2,109 m^2
   - 2.1. First Floor G1 2,109 m^2
3. Floor coverings to comply with Section 4.14 of SANS 10400-T: 2024.
4. Wall coverings to comply with Section 4.15 of SANS 10400-T: 2024.
5. The insulating material installed below the roof sheeting must be non-combustible or must have been subjected to a fire test by the SABS and must comply with SANS 428.
6. Suspended ceilings and supporting members to be non-combustible and must comply with Section 4.13 of SANS 10400-T: 2024.
7. Structural elements must comply with Section 4.7 of SANS 10400-T: 2024.
8. Smoke control ventilation not required as no rooms are greater than 500m^2.Smoke ventilation designed and installed in accordance with EN 12101.
9. Automatic (category L1) fire detection. Fire detection system to be connected to an emergency evacuation alarm system complying with SANS 10139: 2018 will be installed as indicated on the plan.
10. Water supplies for firefighting purposes are to be in accordance with SANS 10400-W. Water supply to be able to provide 1200 L/min at maintain a minimum pressure of 300 kPa at each hydrant or hose reel.
11. Fire hydrants to be installed in the positions as indicated on the plan in accordance with SANS 1128 and Section 4.35 of SANS 10400-T: 2024.
12. Each hydrant to be provided with an outdoor steel cabinet with two 65mm lay flat hoses. Hydrants shall be provided with two appropriate fire hoses of 30m in length, together with couplings and a 16mm internal diameter nozzle suitably housed in a readily accessible and identified cupboard, all of which shall comply with the the requirements of SANS 1128-2.
13. Fire extinguishers to be installed in the positions as per the plans in accordance with SANS 10105-1: 2010 and Section 4.37 of SANS 10400-T: 2024.
14. The following fire-fighting equipment to be provided on site:
    - 14.1. 3 x 80mm diameter type upright fire hydrant
    - 14.2. 6 x SABS approved 30m PVC fire hose reels
    - 14.3. 12 x 4.5kg DCP fire extinguisher.
15. Fire rated walls between occupancies, tenancies and divisions to be as per Table 3 and Table 4 of SANS 10400-T: 2024 and shall be constructed as per Table 12 of SANS 10400-T: 2024 where indicated on the plan.
16. All fire rated walls are to be sealed to the underside of the roof with a suitable non-combustible fire resistant sealant.
17. Any opening or door located in a fire rated wall shall be rated to the same fire rating as the fire wall in accordance with Table 6 of SANS1000-T:2024.
18. All fire rated doors shall be automatically closing and shall open in the direction of egress.
19. Doors located along escape routes shall not be lockable and shall be equipped with an approved push bar mechanism. If fitted with a lock, to be an approved locking devices that can operate without the use of a key as per Section 4.16.9 of SANS 10400-T: 2024.
20. Openings in walls between divisions shall not be located less than 1m measured horizontally or vertically from any other opening in another division per Section 4.10.1 of SANS 10400-T: 2024.
21. The maximum travel distance of any emergency escape route to the outside of the building shall not be more than 45m measured from any point in the building and any dead-end corridor shall not exceed 10m in length as per Section 4.16 of SANS 10400-T: 2024.
22. Emergency escape routes minimum width to be in accordance with Table 10 of SANS 10400-T: 2024 and the clear width of an emergency exit door to be no less than 750mm in accordance with Section 4.20.1 of SAN 10400-T: 2024.
23. Buildings greater than 3 stories shall have at least two escape routes and emergency routes shall form part of the escape route.
24. Emergency routes shall be in accordance with Section 4.19 of SANS10400-T:2024.
25. All cables penetrating a fire wall are to be painted with an intumescent coating for a distance of 1 meter on both sides of the wall and all penetrating holes to be fire stopped as per Section 4.4.1 of SANS 10400-T: 2024.
26. All firefighting equipment, fire escape routes and exit doors are to be clearly indicated by photo luminescent symbolic signs that must be secured without the use of adhesives. All signs to conform to SANS 1186.
27. An emergency evacuation plan for the occupants of the building shall be drafted within 30 days of occupation and shall be drilled at least twice per annum. Record of all emegency evacuation drills to be kept on file and made available for inspection by the local authorities.
28. All emergency lighting shall be provided above escape paths, exit doors and emergency equipment. Lighting shall comply with section 4.30 of SANS 10400-T: 2024 and SANS 10114-2 and shall be capable of providing power supply to such emergency light sources for not less than the periods given in table 5 of SANS 10400-T:2024.

REV	DATE	DESCRIPTION
0	01/02/2022	Issued for review
1.0	27/07/2022	Issued for review
2.0	02/04/2024	Issued for Tender
3.0	24/04/2024	Issued for Tender

OWNER'S SIGNATURE

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MG van Niekerk (Fire Engineer)
ECSA 2023170018

FIRE DEPARTMENT APPROVALS

QCTO
Thuthuka Building
256 Glyn Lane
Hatfield
Pretoria

Fire Protection Plan First Floor			SCALE 1:100 (A0)
PLAN NUMBER QCTOT-FP-01	SHEET 1 of 2	REV 3.0	DATE 2024/04/24