



SITE LOCATION

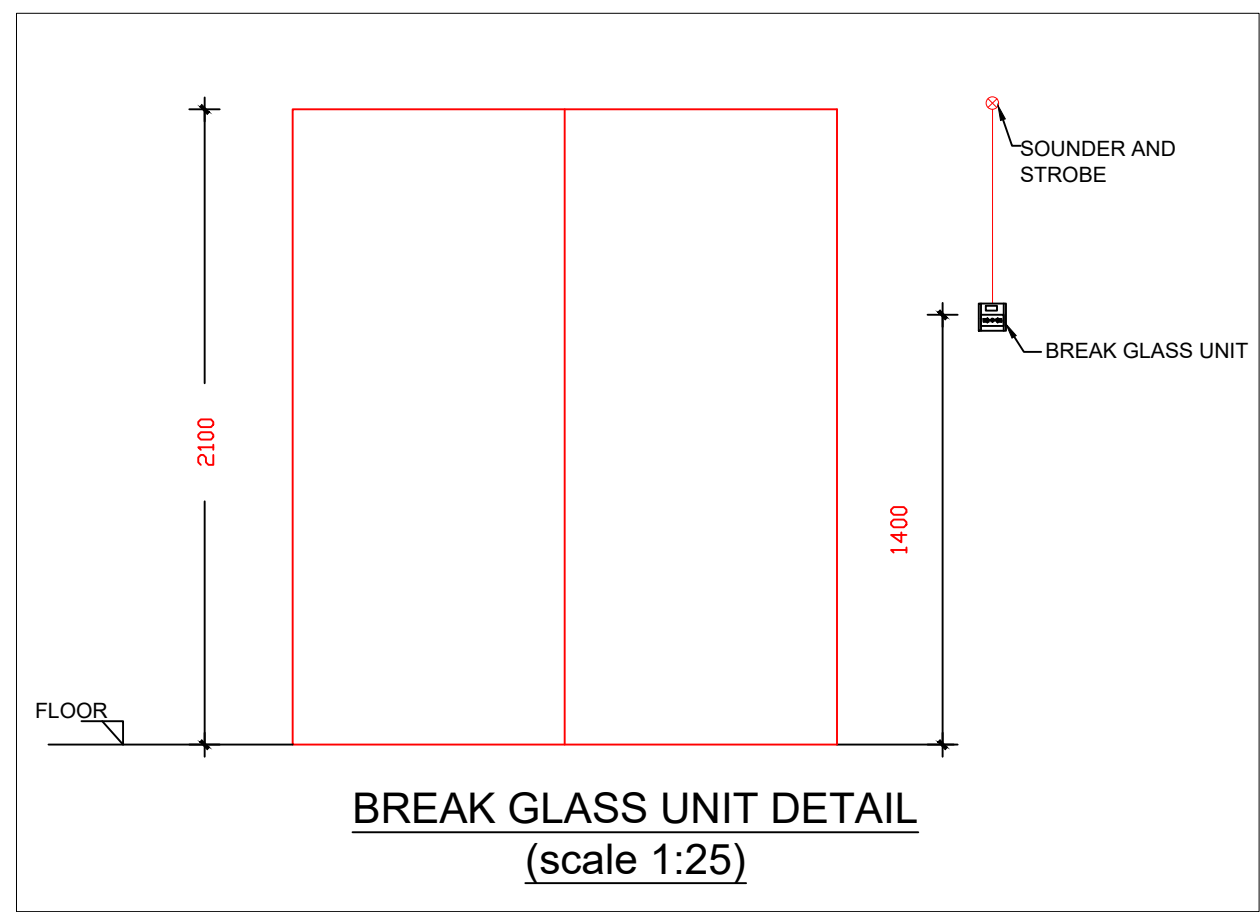


IMAGE 1 - SMOKE DETECTOR



IMAGE 2 - STROBE LIGHT



IMAGE 3 - BREAK GLASS UNIT



IMAGE 4 - SOUNDER & STROBE BEACON



IMAGE 5 - FIRE PANEL

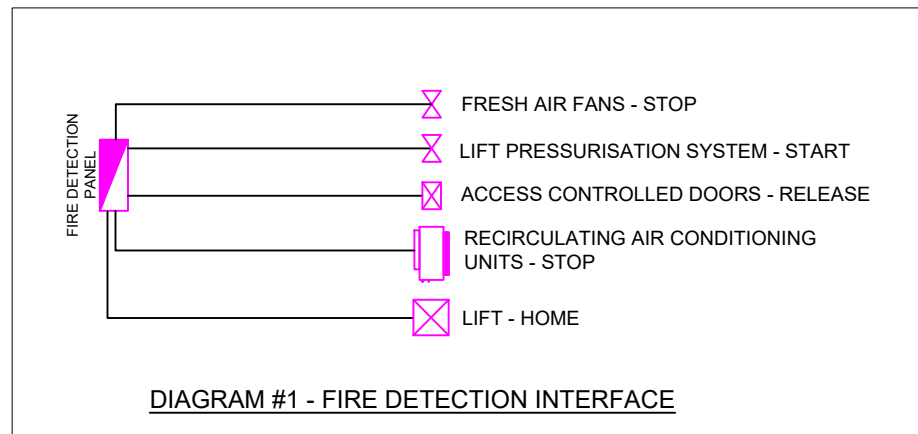


DIAGRAM #1 - FIRE DETECTION INTERFACE



IMAGE 7 - PH30 FIRE RATED CABLE



IMAGE 6 - HEAT DETECTOR

- FIRE DETECTION NOTES  
FIRE DETECTION DESIGN IN ACCORDANCE WITH SANS 10139
- SPACE CLASSIFICATION = G1 - OFFICE
  - FLOOR AREA = 1060 m<sup>2</sup>
  - POPULATION = 1/SEAT = 147 PEOPLE
  - DETECTION CATEGORY = L1 SYSTEM
  - FIRE RESISTANT CABLES = PH30 IN ACCORDANCE WITH SANS 10139
  - AUDIBLE ALARM SOUND LEVEL = 65 DBA
  - WIRE WAYS = 25mm PVC THROUGHOUT C/W METAL SADDLES EVERY 500mm
  - THE FIRE DETECTION SYSTEM MUST BE INTERFACED WITH THE FOLLOWING
    - DUCTED A/C SYSTEM TO SHUT DOWN
    - FRESH AIR SYSTEM TO SHUT DOWN
    - ACCESS CONTROLLED DOORS TO RELEASE
    - LIFT TO HOME UNDER A FIRE CONDITION

- SCOPE OF WORK
- SUPPLY AND INSTALL NEW DETECTION AND EVACUATION EQUIPMENT AS INDICATED
    - 4-OFF BREAK GLASS UNIT C/W BASE SOUNDER AND STROBE LIGHT
    - 38-OFF NEW SMOKE DETECTORS
    - 2-OFF NEW HEAT DETECTORS
    - 14-OFF STROBE LIGHTS
    - 14-OFF SOUNDER
    - 5 GREEN BREAK GLASS UNITS
    - 3-OFF LINE RELAYS
  - COMPLETE A FUNCTIONALITY TEST TO ENSURE THE SYSTEM OPERATES SATISFACTORILY UNDER A FIRE CONDITION.
  - CONDUCT A SOUND LEVEL TEST FOR THE EVACUATION SYSTEM.
  - TRAIN OCCUPANTS ON THE SYSTEM INSTALLATION.

FIRE DETECTION LEGENDS & COUNT			
SYMBOL	REFERENCE	DESCRIPTION	QTY.
	BG	BREAK GLASS UNIT WITH SOUNDER AND STROBE	4
	S	SOUNDER	14
	SL	STROBE LIGHT	15
	SD	SMOKE DETECTOR	38
	HD	HEAT DETECTOR	2
	BGU	GREEN BREAK GLASS UNIT	5
	LR	LINE RELAYS	3
		PH30 FIRE RATED CABLE	880m
		Ø25mm CONDUIT LINK	440m

REVISIONS			
No.	Date	Description	Rev. By/Chk. By/
A	2022/07/05	ISSUED FOR INFORMATION	M.M. H.R.
B	2022/07/07	ISSUED FOR TENDER	A.R. H.R.

09 Plantanus Street  
Kuisriver 7580

**CONSULTECH**  
Mechanical Engineers

Cell: (072) 948 4470  
Tel: (021) 943 4407  
Email: info@consultech.co.za

PROJECT: LAHAE LA SANS - BLOCK H

DWG TITLE: BROOKLYN  
GROUND STOREY - PROPOSED  
DETECTION LAYOUT

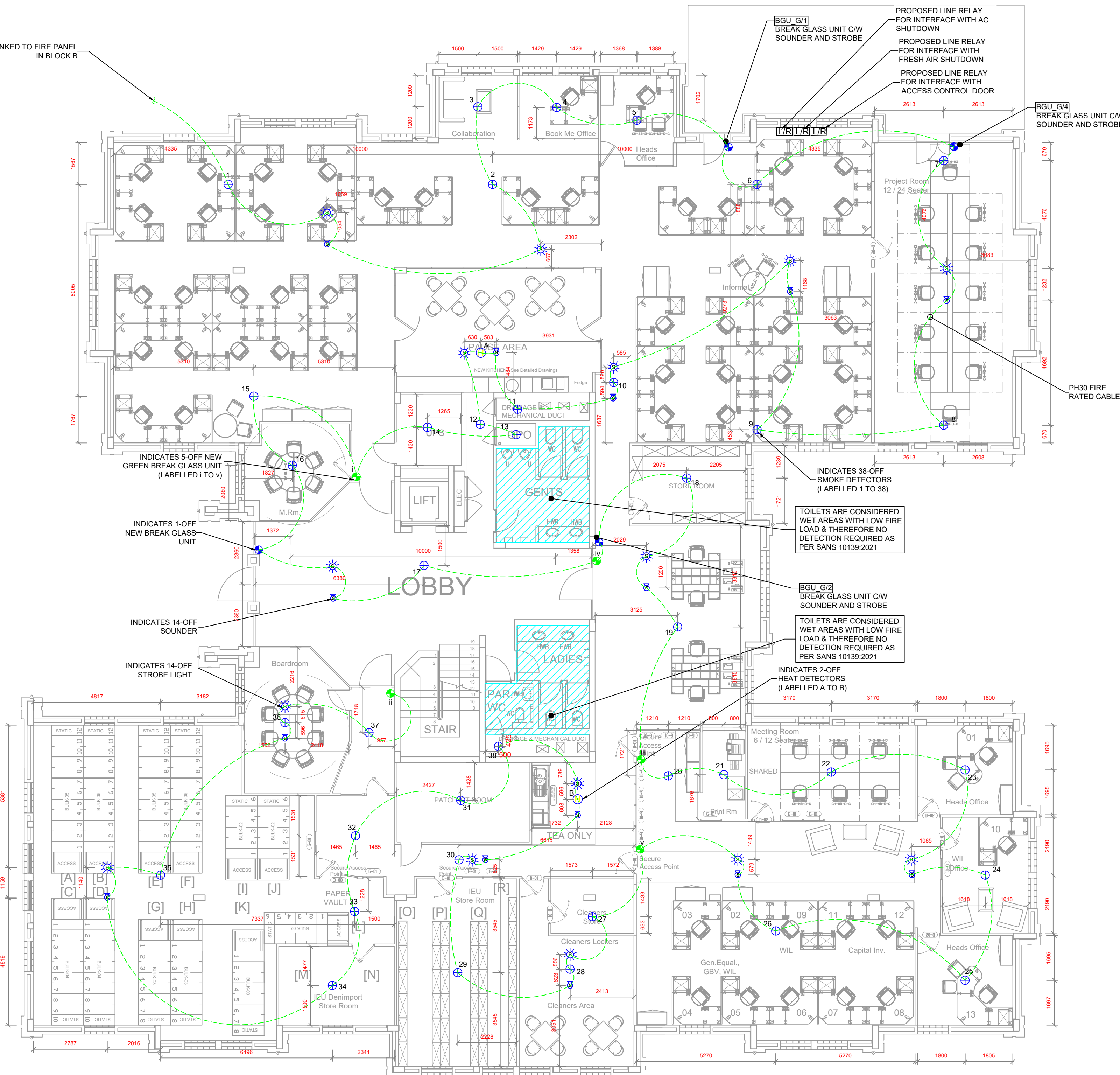
DWG NUMBER: 21B09-D-609-01 REV. B

DESIGNED BY: E. ILUNGA SCALE: 1:100 @ A1

CHECKED BY: H.D. ROUX ECSA NUMBER: 201070151

APPROVED BY: H.D. ROUX ECSA NUMBER: 201070151

COPYRIGHT AND RIGHT OF REPRODUCTION OF THIS DRAWING OR ANY PORTION THEREOF IS RESERVED BY THE ENGINEERS



GROUND STOREY - PROPOSED DETECTION LAYOUT (Scale 1:100)

