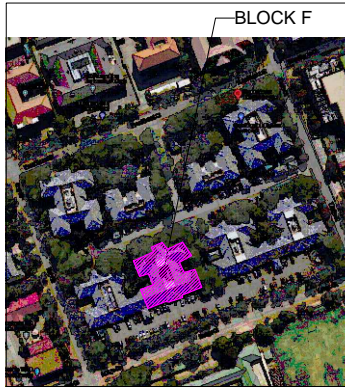


\\SERVER01\Project\2021\21B09 - RPX 6000014614 SANS TENDER\8. DRAWINGS\Mech\Fire\Detection\21B09-D-606 - BLOCK F\PROPOSED DETECTION LAYOUT_2022-06-27.dwg, 2022/07/05 04:23:16 PM, LS

Local Authority stamp



SITE LOCATION

BLOCK F

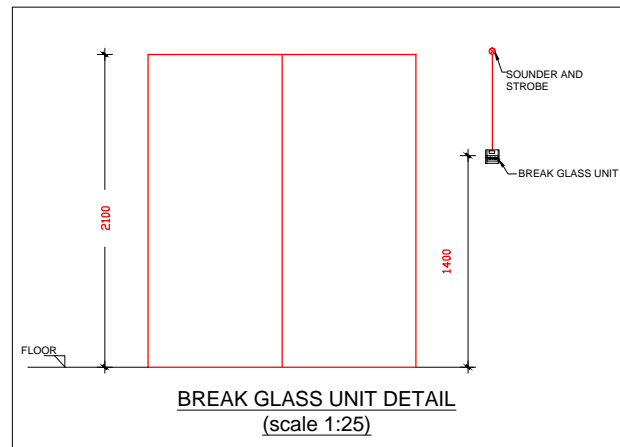


IMAGE 1 - SMOKE DETECTOR



IMAGE 2 - STROBE LIGHT



IMAGE 3 - BREAK GLASS UNIT



IMAGE 4 - SOUNDER & STROBE BEACON



IMAGE 5 - FIRE PANEL

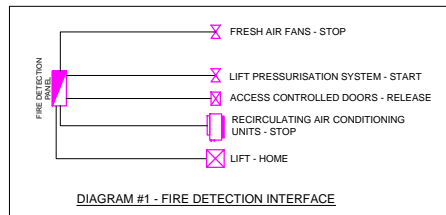


DIAGRAM #1 - FIRE DETECTION INTERFACE



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 = 1118 m²
 - POPULATION = 1/SEAT = 208 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
 - SMOKE VENTILATION SYSTEM TO START
 - 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.
 - 38-OFF NEW SMOKE DETECTORS
 - 2-OFF NEW HEAT DETECTORS
 - 2-OFF BREAK GLASS UNITS C/W SOUNDER AND STROBE LIGHTS
 - 1-OFF GREEN BREAK GLASS UNIT
 - 5-OFF STROBE LIGHTS WITH BUILT IN SOUNDER
 - 13-OFF STROBE LIGHTS
 - 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
⊕	BG	BREAK GLASS UNIT WITH SOUNDER AND STROBE
⊕	SS	STROBE LIGHT WITH BUILT-IN SOUNDER
⊕	STR	STROBE LIGHT
⊕	SD	SMOKE DETECTOR
⊕	HD	HEAT DETECTOR
⊕	BGU	GREEN BREAK GLASS UNIT
⊕	LR	LINE RELAYS
—		PH30 FIRE RATED CABLE
—		Ø25mm CONDUIT LINK
		QTY.
		2
		5
		13
		38
		2
		1
		3
		558m
		273m

REVISIONS				
No.	Date	Description	Rev By	Chk By
A	10/06/2021	ISSUED FOR INFORMATION	M.M.	H.R.
B	2022/06/27	DRAWING UPDATED TO SUIT NEW ARCHITECTURE	L.S.	H.R.

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PROJECT	LAHAE LA SANS - BLOCK F		
DWG TITLE	BROOKLYN		
DWG NUMBER	21B09-D-606-01		
DESIGNED BY	L.N. SIBIYA	SCALE	1:100 @ A1
CHECKED BY	H.D. ROUX	ECSA NUMBER	201070151
APPROVED BY	H.D. ROUX	ECSA NUMBER	201070151
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GROUND STOREY - PROPOSED DETECTION LAYOUT (Scale 1:100)

ISSUE DATE:	2022-06-27	REVISION:	B
X FOR INFORMATION			
FOR APPROVAL			
FOR TENDER			
FOR CONSTRUCTION			
AS-BUILT			