








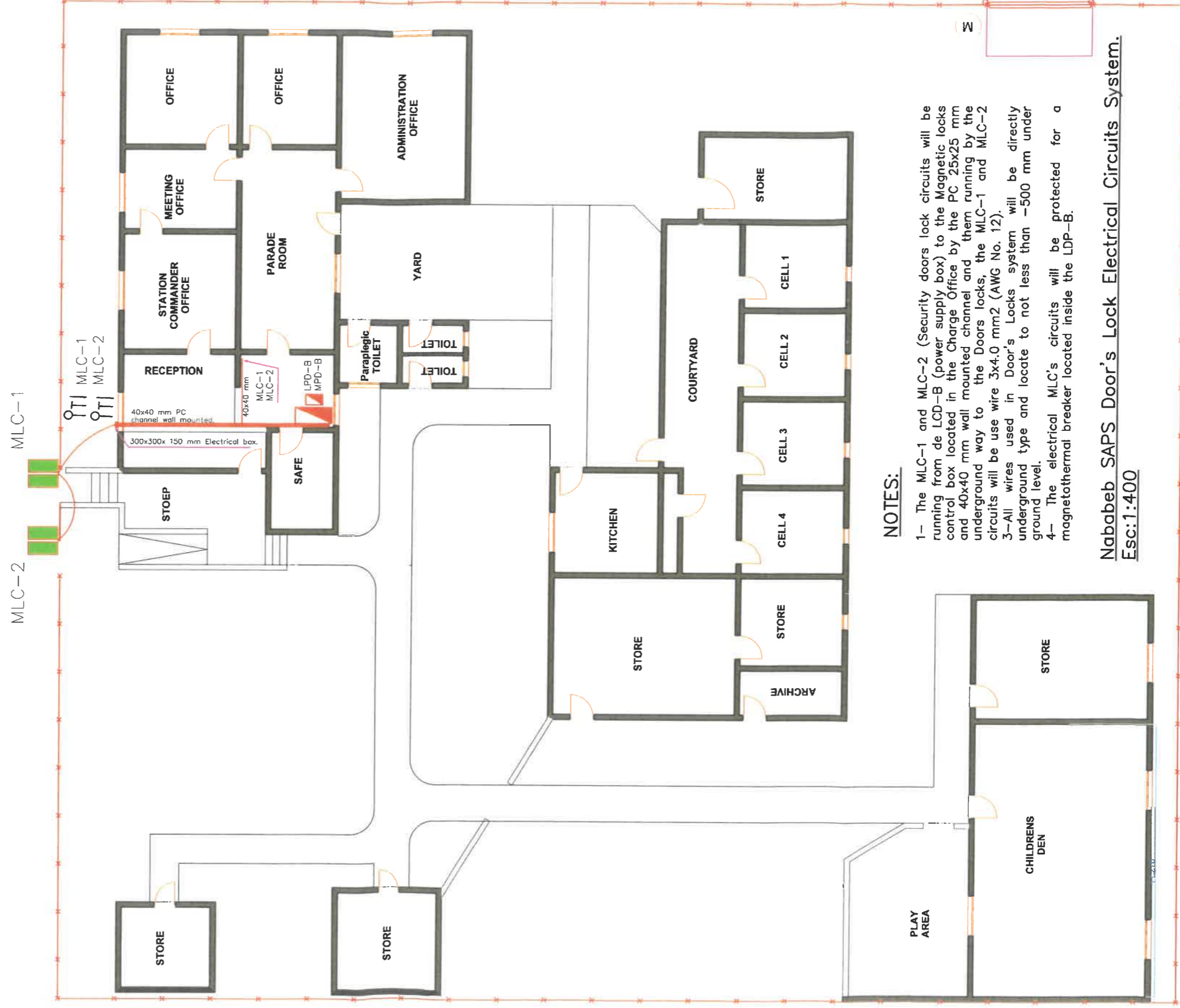


**LEGEND:**

-  Perimetral fence.
-  Swinging personal circulation gate.
-  Directly underground electrical lock circuit.
-  Main Electrical Distribution Panel (MPD-B), wall mounted H=1500mm from Ground Level.
-  Security Light Electrical Distribution Panel (LPD-B), wall mounted H=1500mm from Ground Level.
-  Security use magnetic lock 300 kg/3000 N.
-  300x300x150 mm electrical box IP-65 isolation prove level.
-  PVC wall mounted channel 25x25 mm or 40x40 mm.
-  Magnetic Door's lock control box.



**NOTES:**

- 1- The MLC-1 and MLC-2 (Security doors lock circuits will be running from de LCD-B (power supply box) to the Magnetic locks control box located in the Charge Office by the PC 25x25 mm and 40x40 mm wall mounted channel and them running by the underground way to the Doors locks, the MLC-1 and MLC-2 circuits will be use wire 3x4.0 mm2 (AWG No. 12).
- 3-All wires used in Door's Locks system will be directly underground type and locate to not less than -500 mm under ground level.
- 4- The electrical MLC's circuits will be protected for a magnetothermal breaker located inside the LDP-B.

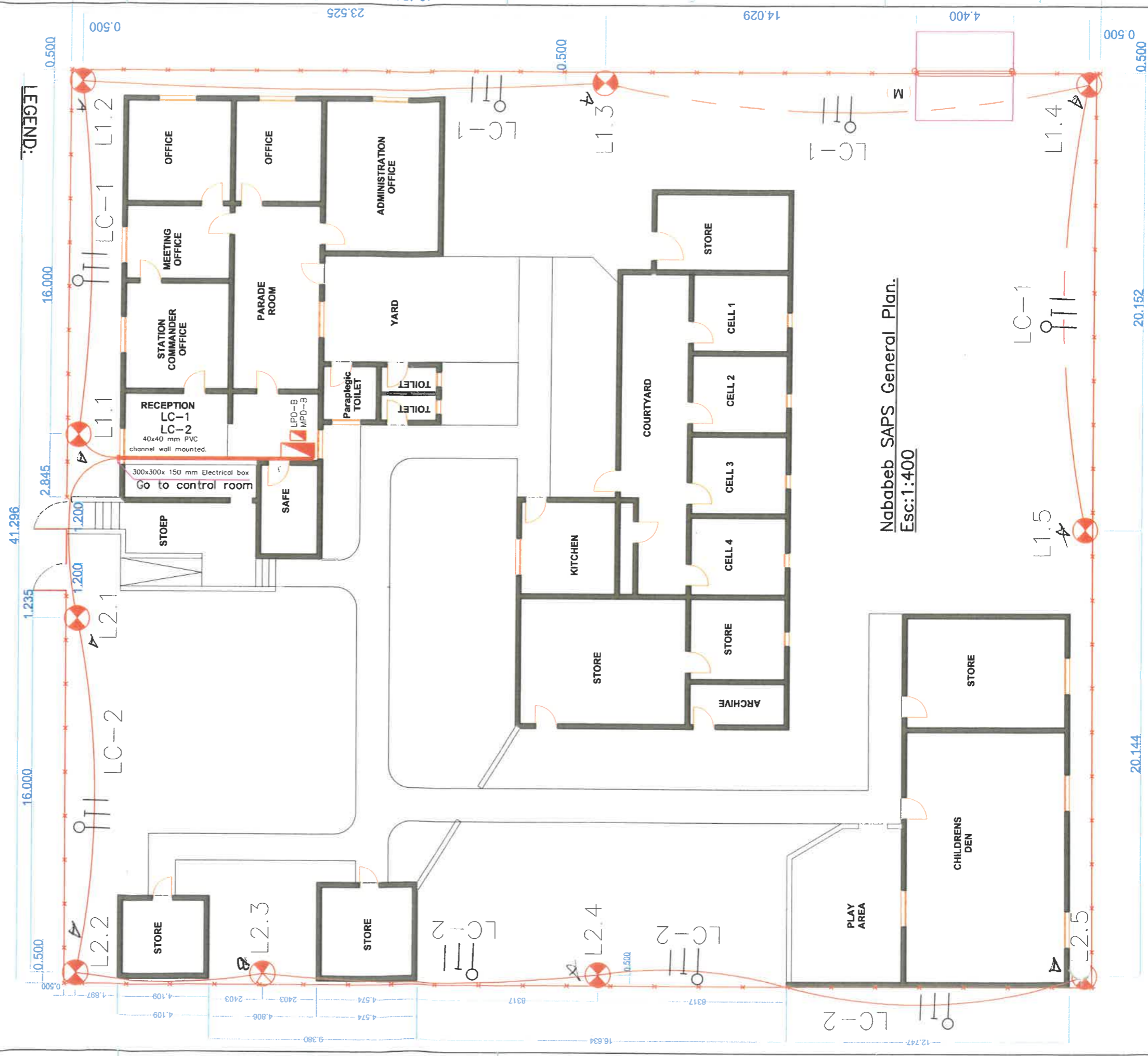
Nababeb SAPS Door's Lock Electrical Circuits System.  
Esc:1:400

**Notes:**

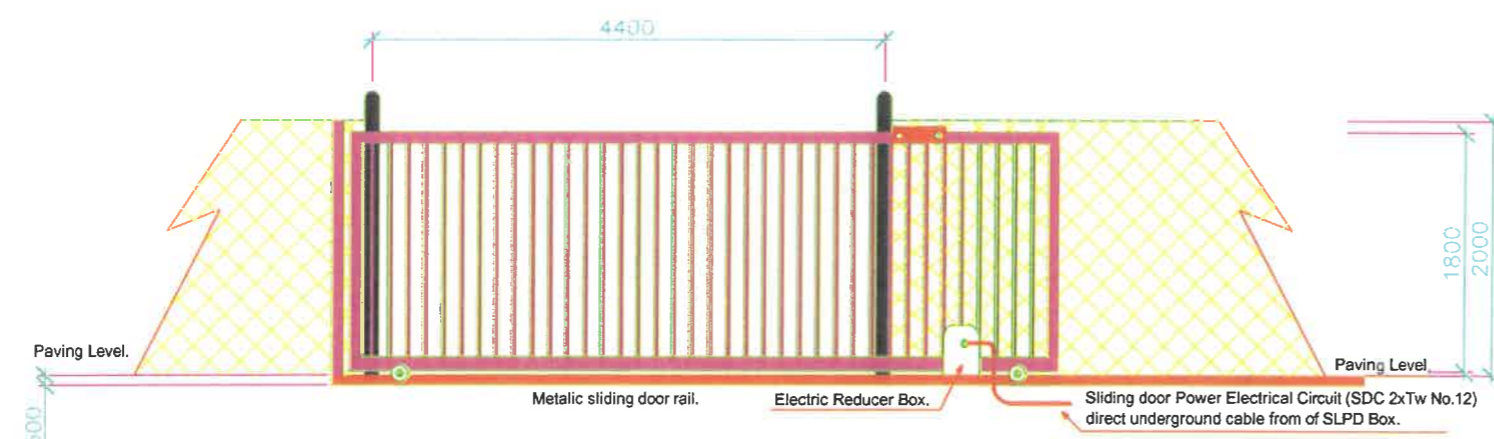
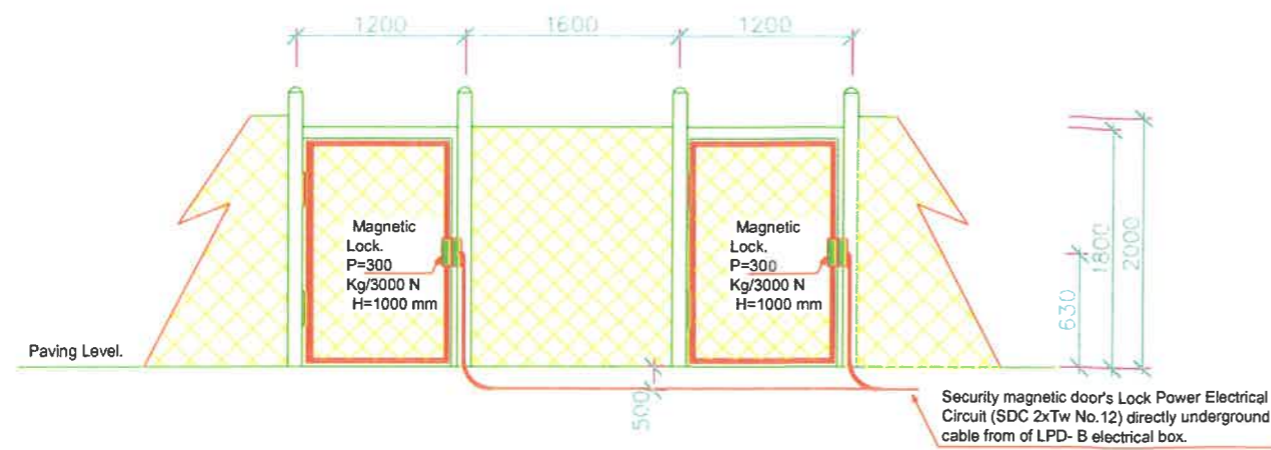
- 1- The one arm spot light projectors (L2.3) and two arms spot light projectors (L1.1, L1.2, ..., L1.5, L2.1, L2.2, L2.4, L2.5) will be supply with LED's technologies bulbs.
- 2- Two security electrical lighting circuits LC-1 (L1.1...L1.5) and LC-2 (L2.1...L2.5) will be controller by day/night sensors (automatically controller) and will running from the electric security distribution panel (LPD-B), the power supply for this will be connected to the Main Electrical Distribution Panel (M PD-B) throw the 40x25 mm PVC channel and AWG No.10 (TW 6.0 mm<sup>2</sup>) monoconductor wire.
- 3- All wires used in security lighting system (3x 12 AWG and 3x14 AWG) will be directly underground type and locate to not less than -500 mm under ground level.
- 4- All electrical circuits for one/two arms LED's technology luminaries will be protected for a magnetothermal breaker (Q1...Q10) located inside the luminaries fiber glass posts.

- 5- The LCP-B electrical box will be installed joint to MPD-B electrical box and fixed to the wall with screws.
- 6- The 40x40 PC channel will be collocated from the LPD-B to the connection electrical box wall mounted system in the external wall of the SAPS offices. from this box will be running the electrical lighting systems, magnetic locks and electrical sliding gate circuits.
- 7- The electrical post kind will be supply of glass fiber material type.

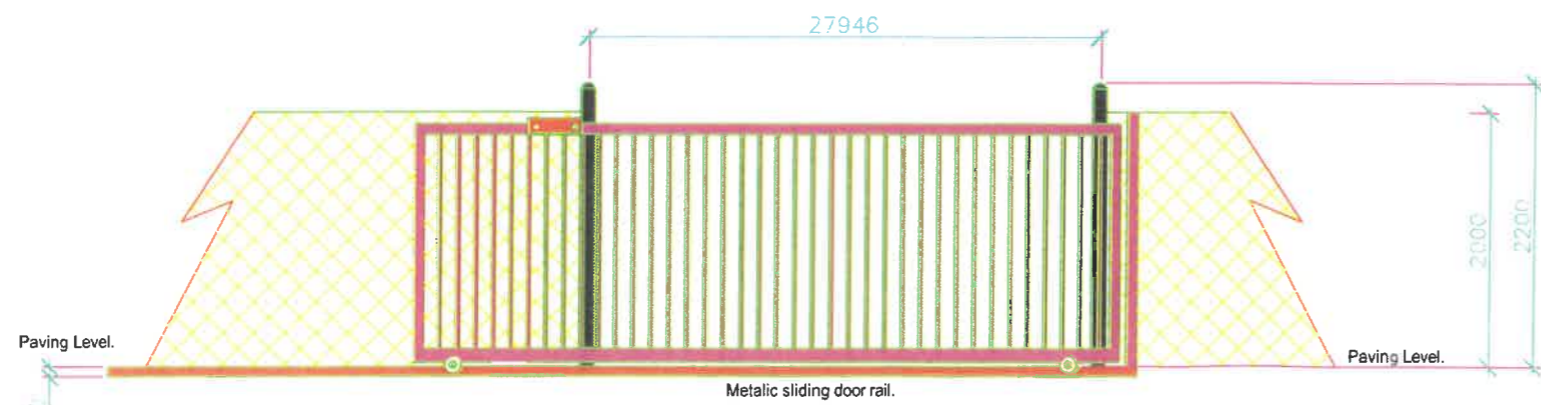
**LEGEND:**



Nababeb SAPS General Plan.  
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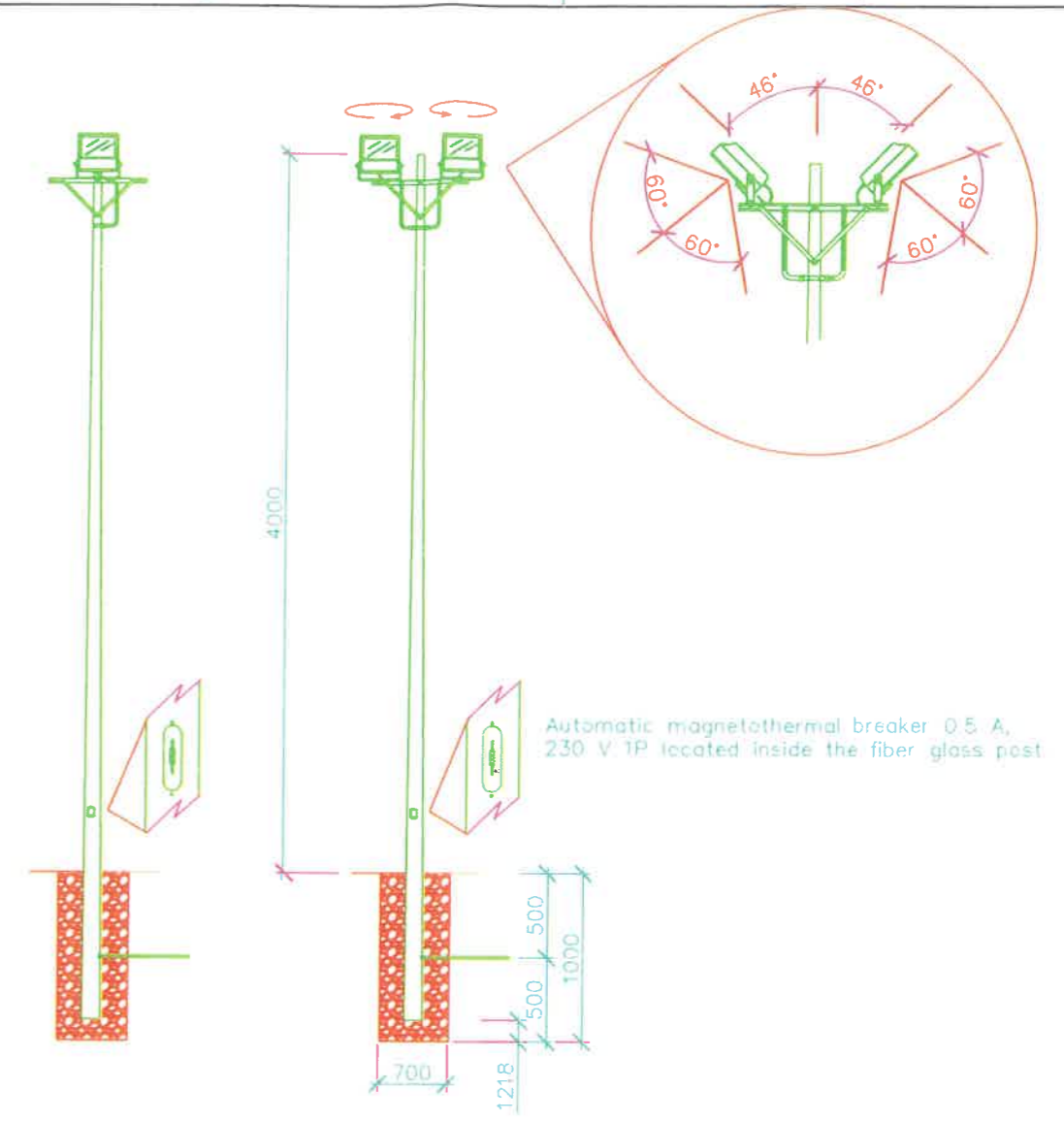


Mounting details of Electrical Sliding door in Main vehicles Gate.



Mounting details of Electrical Sliding door in Main vehicles Gate.

NABABEE's SAPS GENERALS DETAILS PLAN.  
Escale: None.



Standard concrete base.  
(ø700xx1000 mm)  
0.19 m<sup>3</sup>.

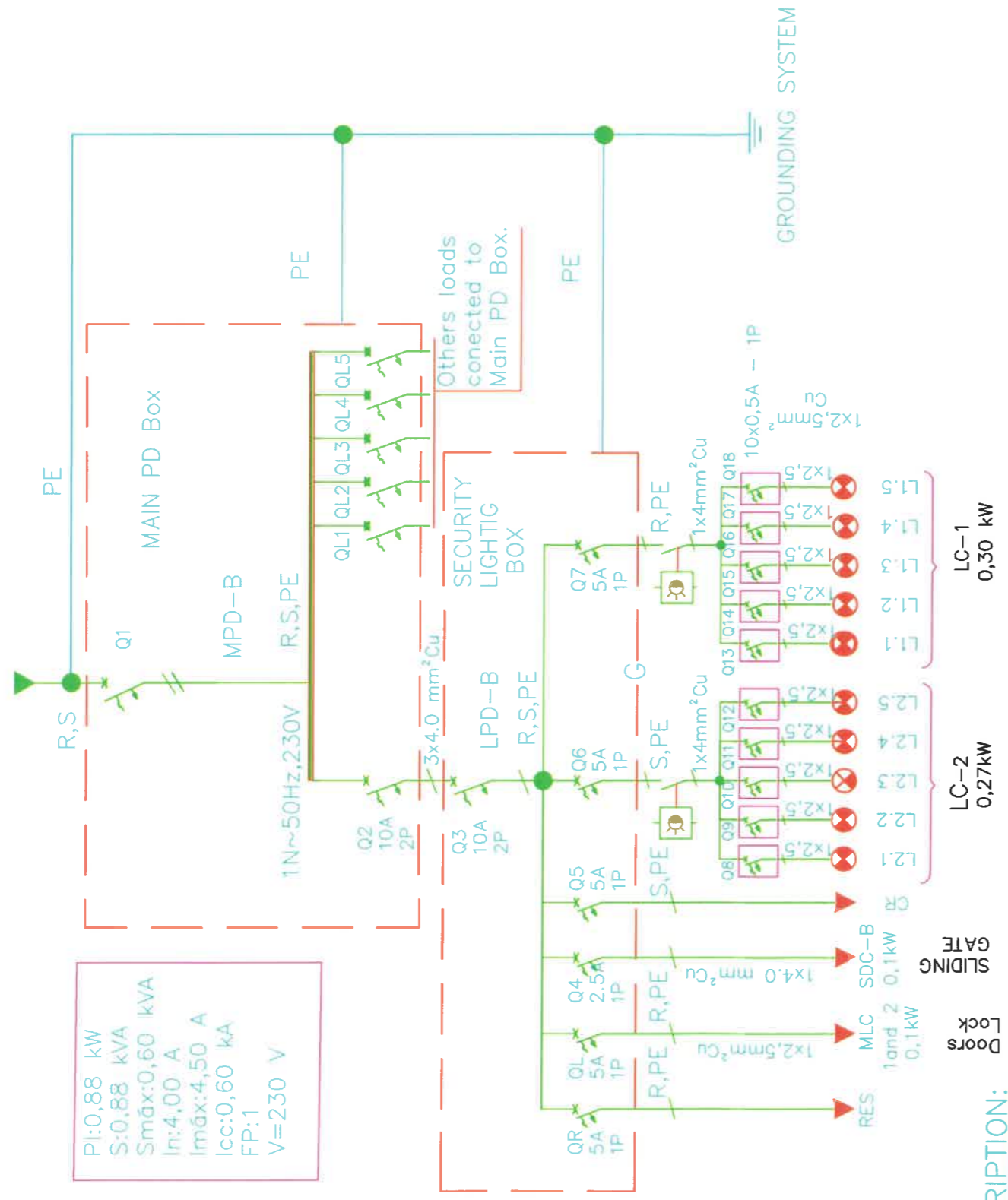
Concrete Proportions (each):  
Material dosification to use:  
1:2:3  
-Cement: 60 kg.  
-Sand 0.10 m<sup>3</sup>  
-Stone 1/4": 0.13 m<sup>3</sup>

Total number of bases: 10 U  
-Total Cement: 600 KG  
-Total Sand: 1.00 m<sup>3</sup>  
-Total Stone: 1.30 m<sup>3</sup>

Mounting details of one/two arms 30 W, 230 V LED technology luminaire and fiber glass post.

Notes:  
1- The horizontal and vertical directional angles of the luminous flow will be adequate in site during the mounted process.

ELECTRICAL DIAGRAM OF SECURITY LIGHTING PANEL LPD-B AND CONNECTION TO MAIN PD (MPD-B)



**DESCRIPTION:**

- LC-1, LC-2.....Security Lighting circuits.
- RES .....Reserve circuit.
- MPD-B .....Main Distribution Panel.
- LPD-B .....Security Distribution Panel.
- In .....Full load current, A.
- Imax .....Real maximum current, A.
- PI .....Installed power, kW.
- Smáx .....REAL MAXIMUM DEMAND, kVA.
- fp .....Power factor.
- N .....Neutral conductor.
- PE .....Protective conductor.
- Q .....Magnetothermal Breakers.
- G .....Grounding system.

**LEGEND:**

- Phase name. (R,S)
- Automatic magnetothermal Breaker.
- Connection point.
- 1 Copper cable 2.5 mm2 and 1 protection cable.  
Ex: 1x2,5mm<sup>2</sup>+PE(2,5mm. <sup>2</sup>
- Luminaries (One/Two arms reflecting spotlights projectors).
- Other electrical loads.
- Day/Night sensor.

**Notes:**

- 1- The energy supply for the security lighting panel will be taken from the general distribution center Amin PD-B located on the outside wall of the main access to the police station.
- 2- The magnetothermal breaker to be located in the luminaries posts Q8...Q18 interruptive current capacity will be 0.5 Amps.

Project:	NABABEBE SAPS.	Hoja:
Objeto:	SECURITY LIGHTING AND SLIDING GATE.	Escala:
Plano:	Electrical Diagram of Security Lighting Panel LPD-B.	Fecha:

Projected: Eng. Rene Roberto Moreno Garcia.

Approved: