



Guidelines for New Shop Houses Meter Location Supplied via Mains Wiring

1. Introduction

- 1.1 The objective of the circular is to provide guidelines on location of energy meter supplied via mains wiring in order to facilitate meter reading, meter inspection, maintenance and disconnection work.
- 1.2 This circular does not cover meter directly connected through underground service cable.

2. Meter Position

- 2.1 The meter shall be installed at the following locations and within reasonable height from the ground for ease of meter reading, meter inspection, maintenance and disconnection work.
- 2.2 The options for the location of the meter can be as follows;
- Option 1 – exterior/recessed wall next to the main door of the ground floor unit & next to the stairway entrance (refer to appendix A);
 - Option 2 – recessed 5 ft way pillar facing the stairway (refer to Appendix B); or
 - Option 3 – Interior/recessed wall at the stairway (refer to Appendix C).

- 2.3 The meter location shall be easily accessible to SEB personnel and contractor for meter reading, inspection and maintenance at reasonable hours.
- 2.4 SEB's Authorised Person shall access the meter for the scenario whence the access is prevented.
- 2.5 Any security grille put up to lock the stairway has to be installed beyond the meter location in order to enable SEB access to the meter at anytime.
- 2.6 Meters shall be installed in a metering cabinet/enclosure.
- 2.7 The individual meter shall be properly labelled to indicate the floor for which the supply is connected to. The meters shall be installed in sequence according to the shop floors.

3. Meter Cabinet

3.1 Size of Meter Cabinet

The standard meter cabinet are 1200mm(H) x 900mm(W) x 250mm(D) **(let the developer to design? SEB to decide dimensions?)** which can accommodate up to four 3-phase meters. The meter cabinet shall be installed 600mm from the ground (refer to appendix D).

3.2 Installation of Meter Cabinet

The developer shall provide a recessed wall to install the meter cabinet to avoid the meter cabinet from protruding and interfering with other purposes of the surrounding area such as pedestrian walkways, footpath or others. The installation must be approved by SEB.

3.3 Meter Boards

The size of meter board must be sufficient to accommodate a 3-phase meter, cutout fuses and neutral link or **two meters (the maximum number permitted for each unit floor)** with accessories.

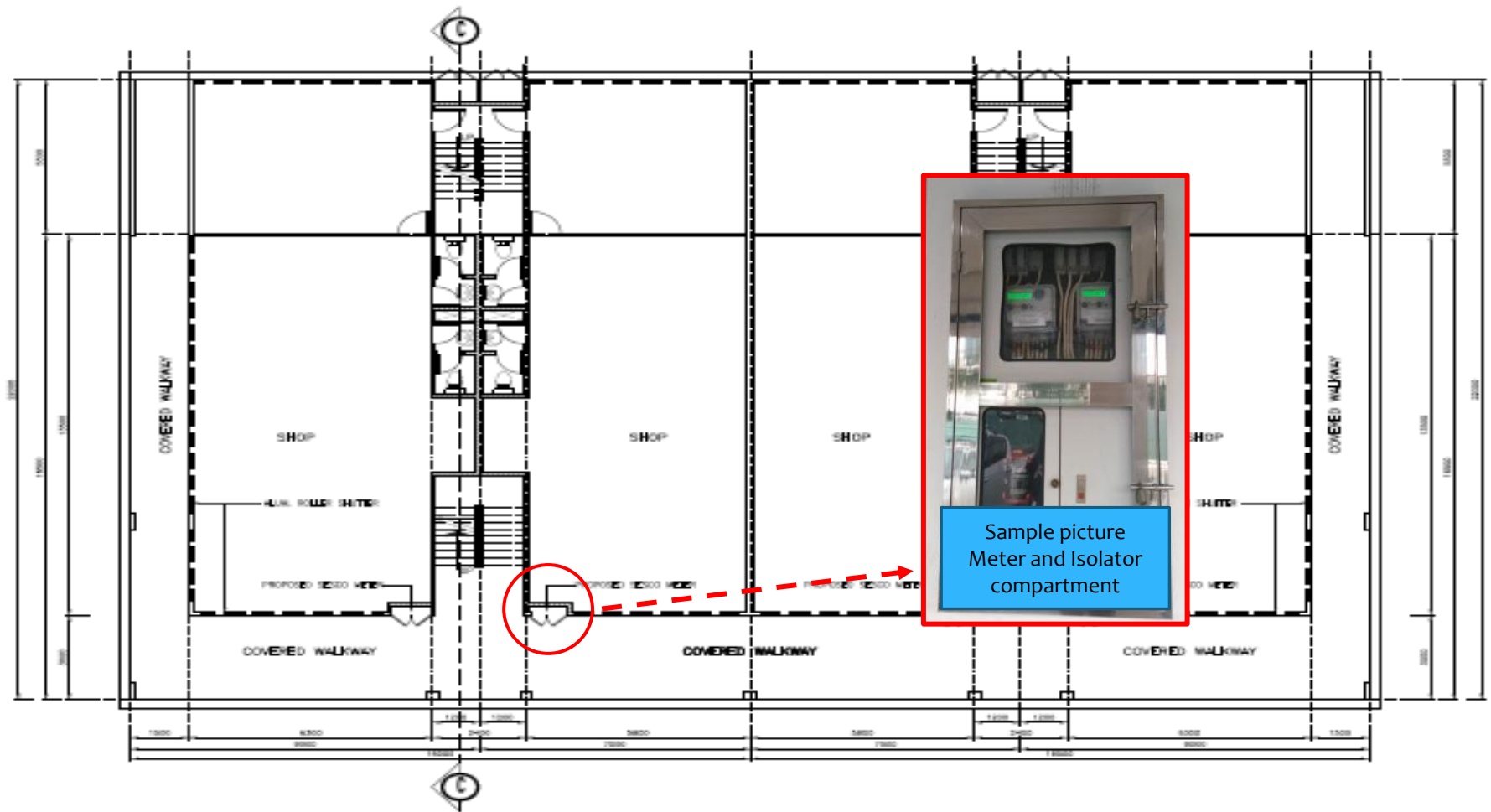
3.4 Isolators

Sub-mains switch such as fused isolator or MCCB with appropriate rating according to the applied load shall be designed and installed after the meter to provide means of isolation. Isolators to be installed in the isolator compartment.



4. System Boundary

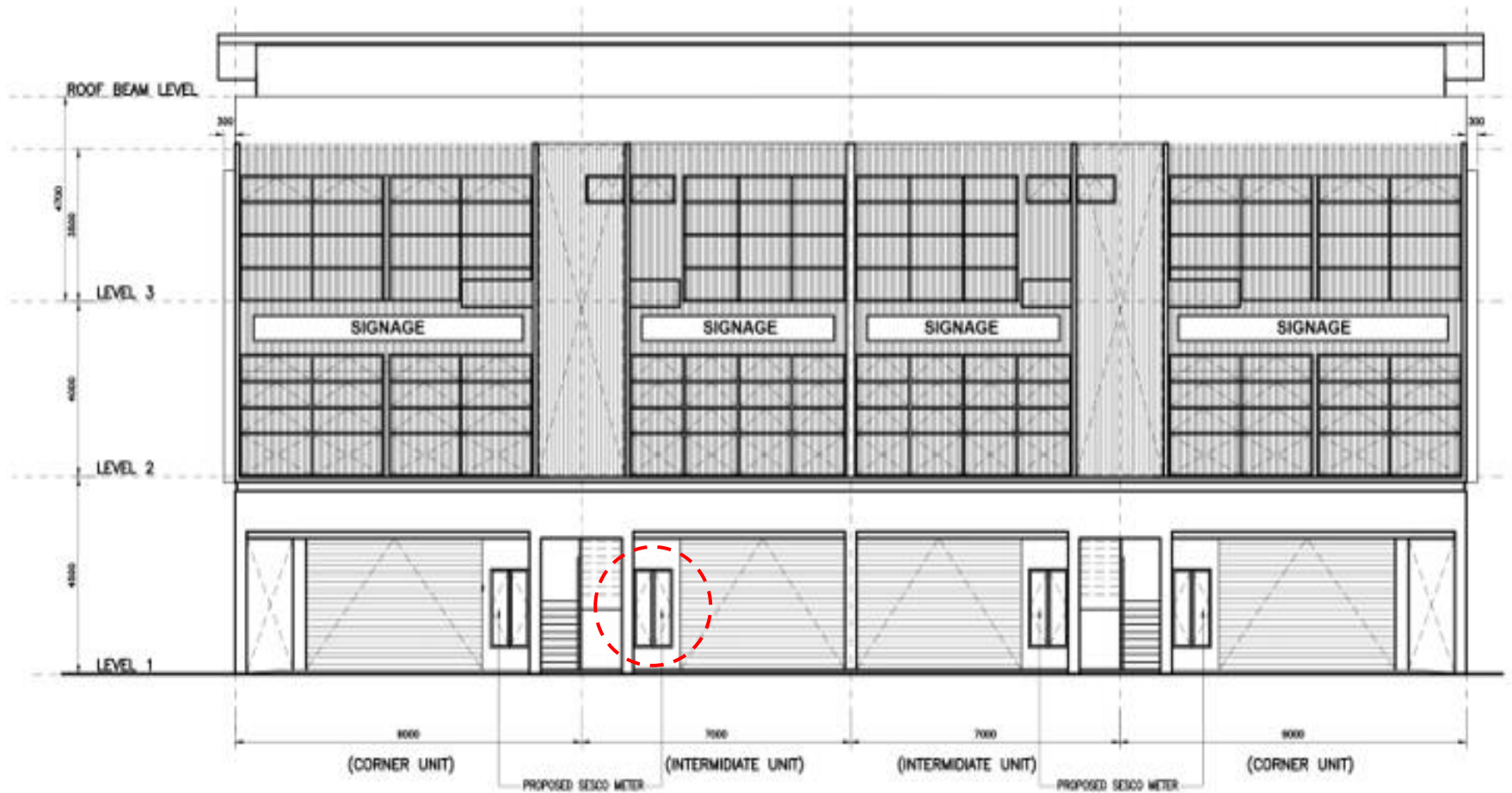
4.1 Option 1 – exterior/recessed wall next to the main door of the ground floor unit & next to the stairway entrance.



GROUND FLOOR PLAN

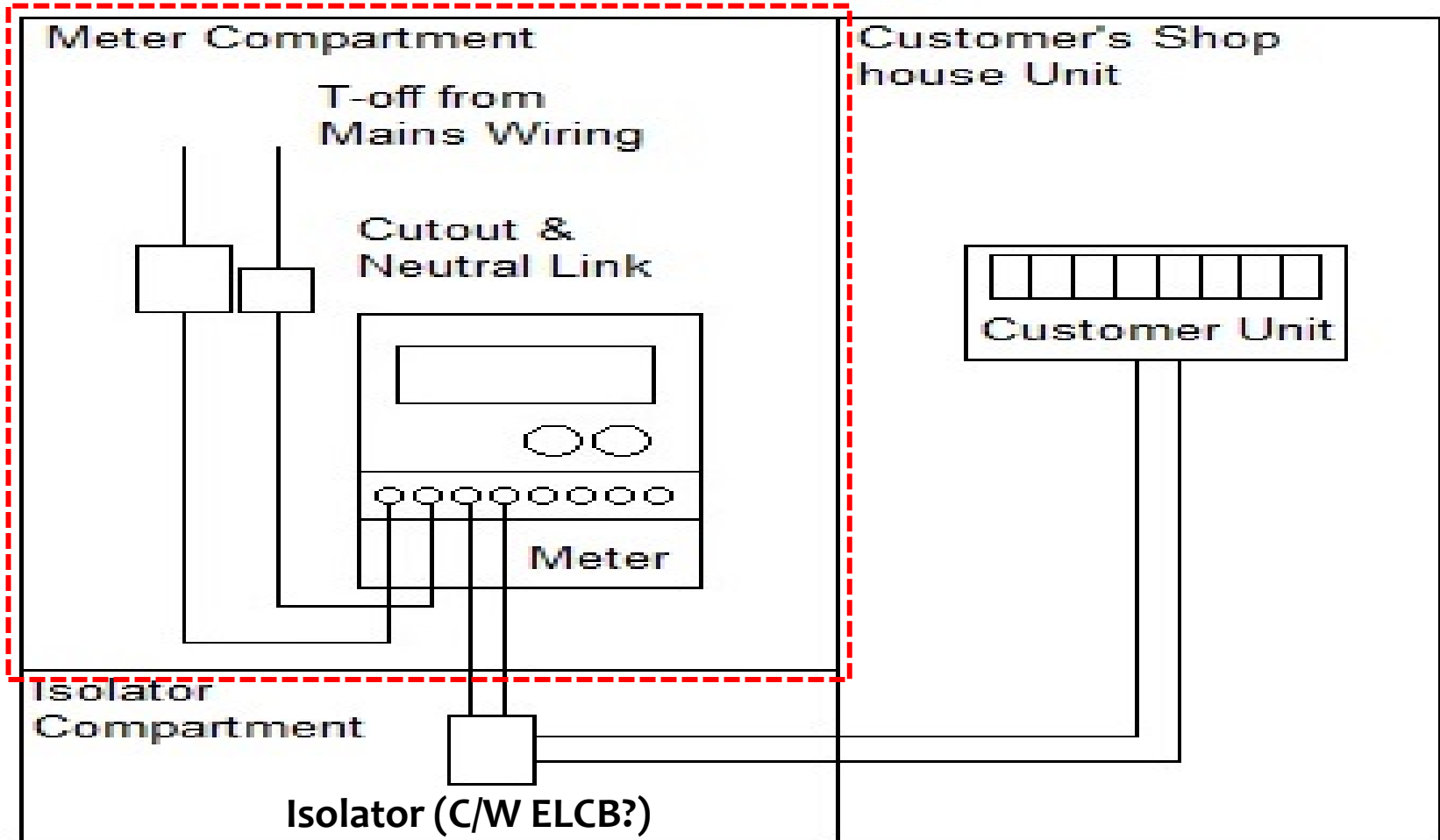
Option 1 : Appendix A

Exterior/recessed wall next to the main door of the ground floor unit & next to the stairway entrance



FRONT ELEVATION

Meter Cabinet

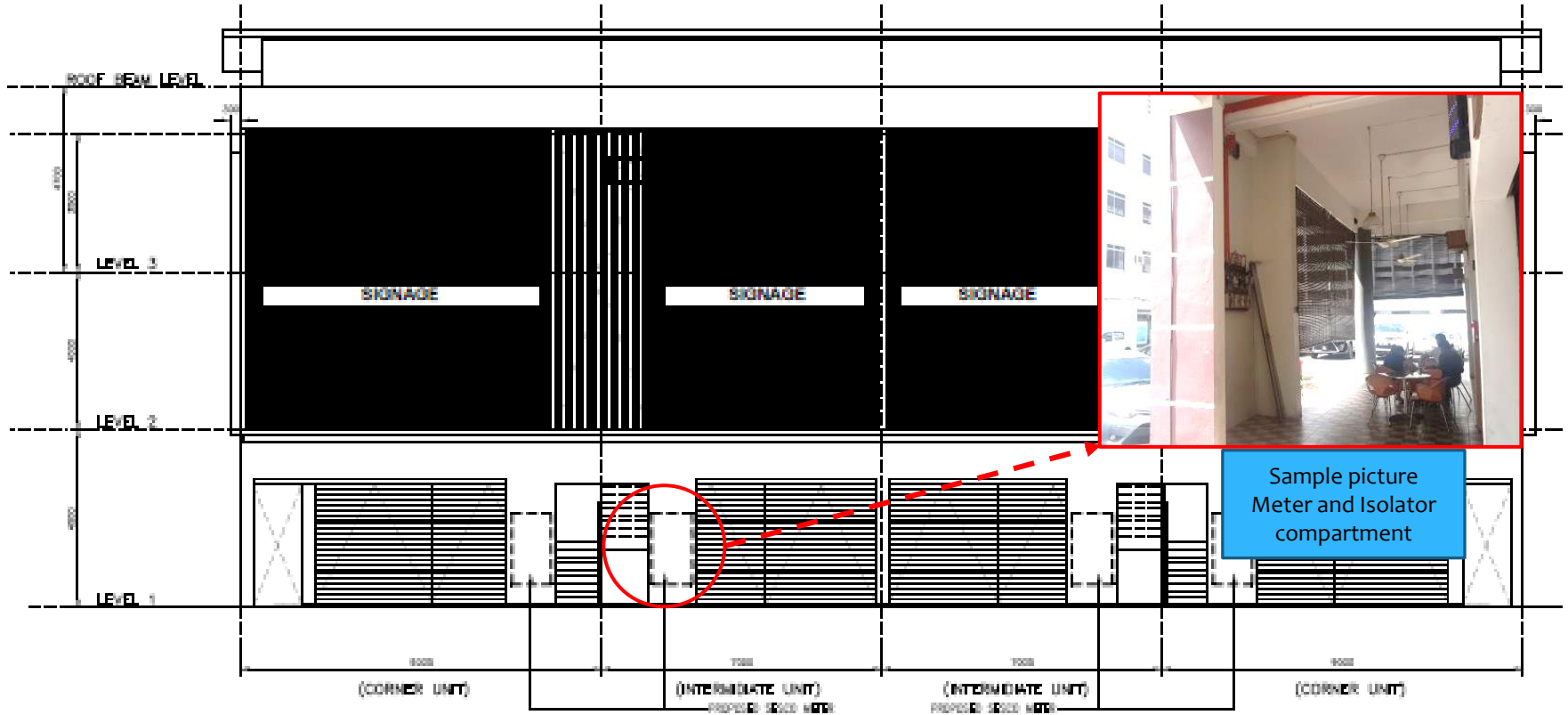


----- SEB responsibility

Table 4.1 : Option 1

SESCO Equipment	Customer Equipment
<ol style="list-style-type: none">1. Service Cable.2. Cutout, Neutral Link.3. Meter tail between CO/NL.4. Meter.	<ol style="list-style-type: none">1. Meter Tail between isolating switch.2. Isolating Switch.3. Customer Unit.4. Meter enclosure (cabinet) and meter board.

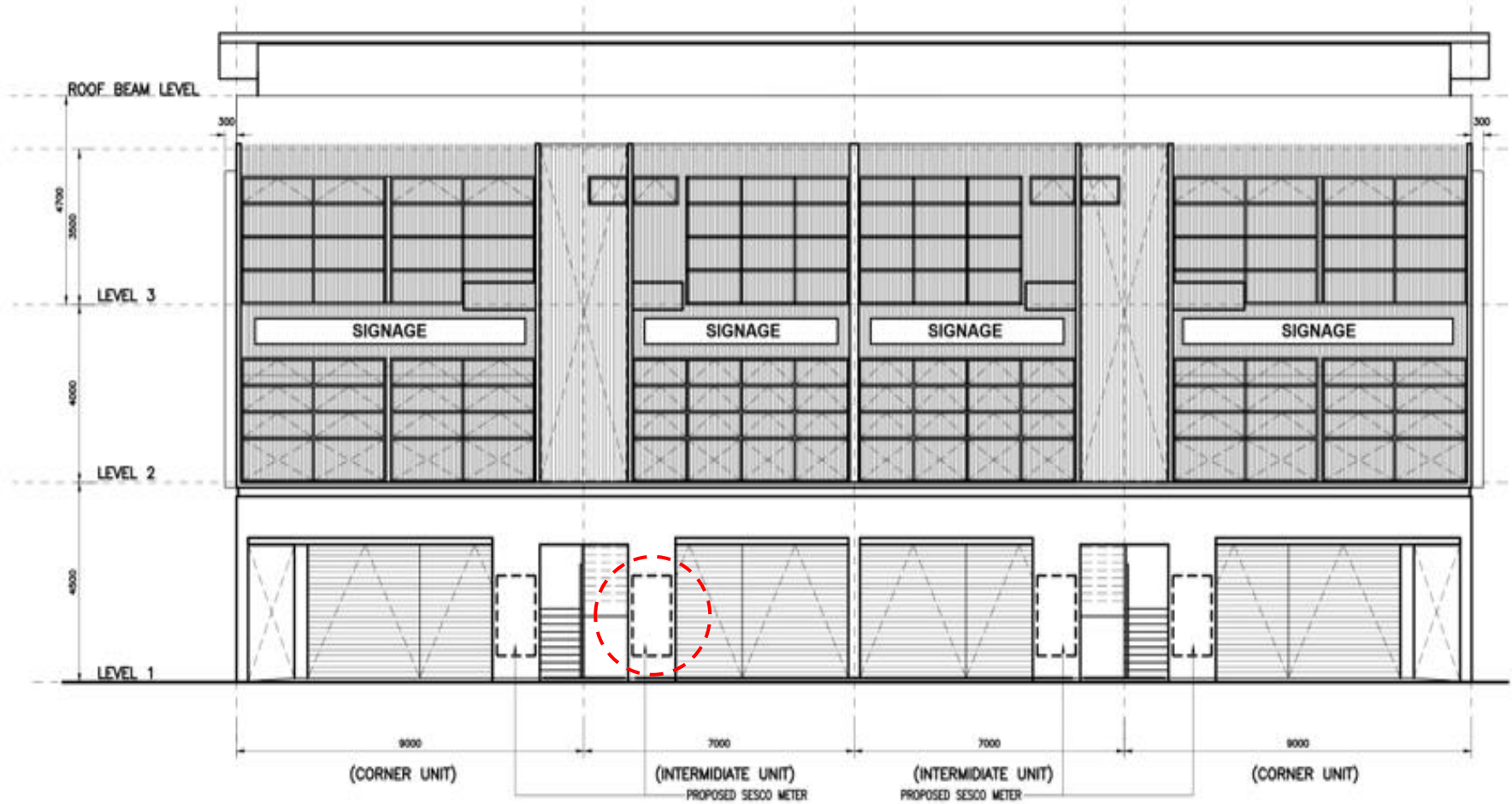
4.2 Option 2 – recessed 5 ft way pillar facing the stairway.



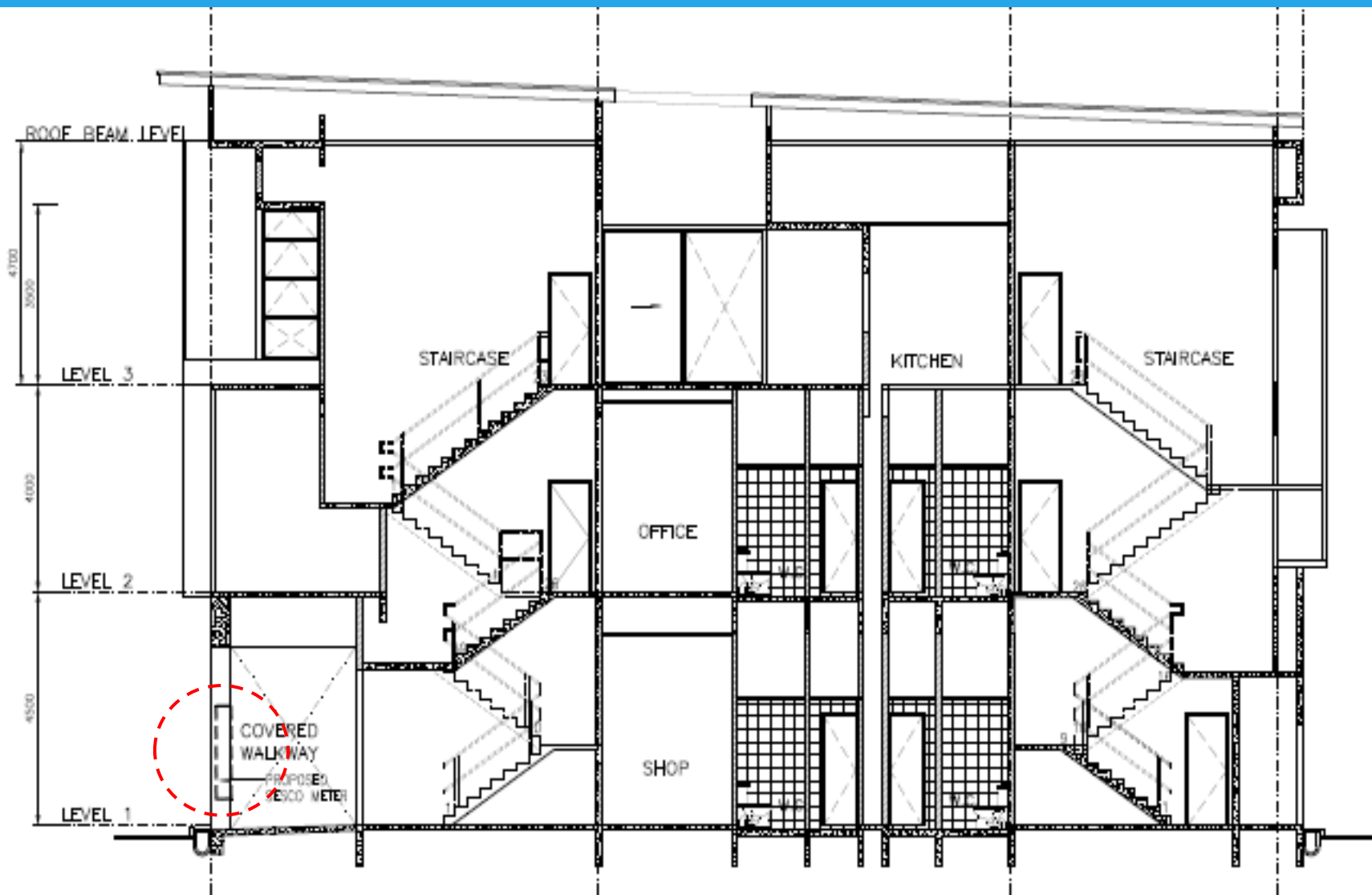
FRONT ELEVATION

Appendix B

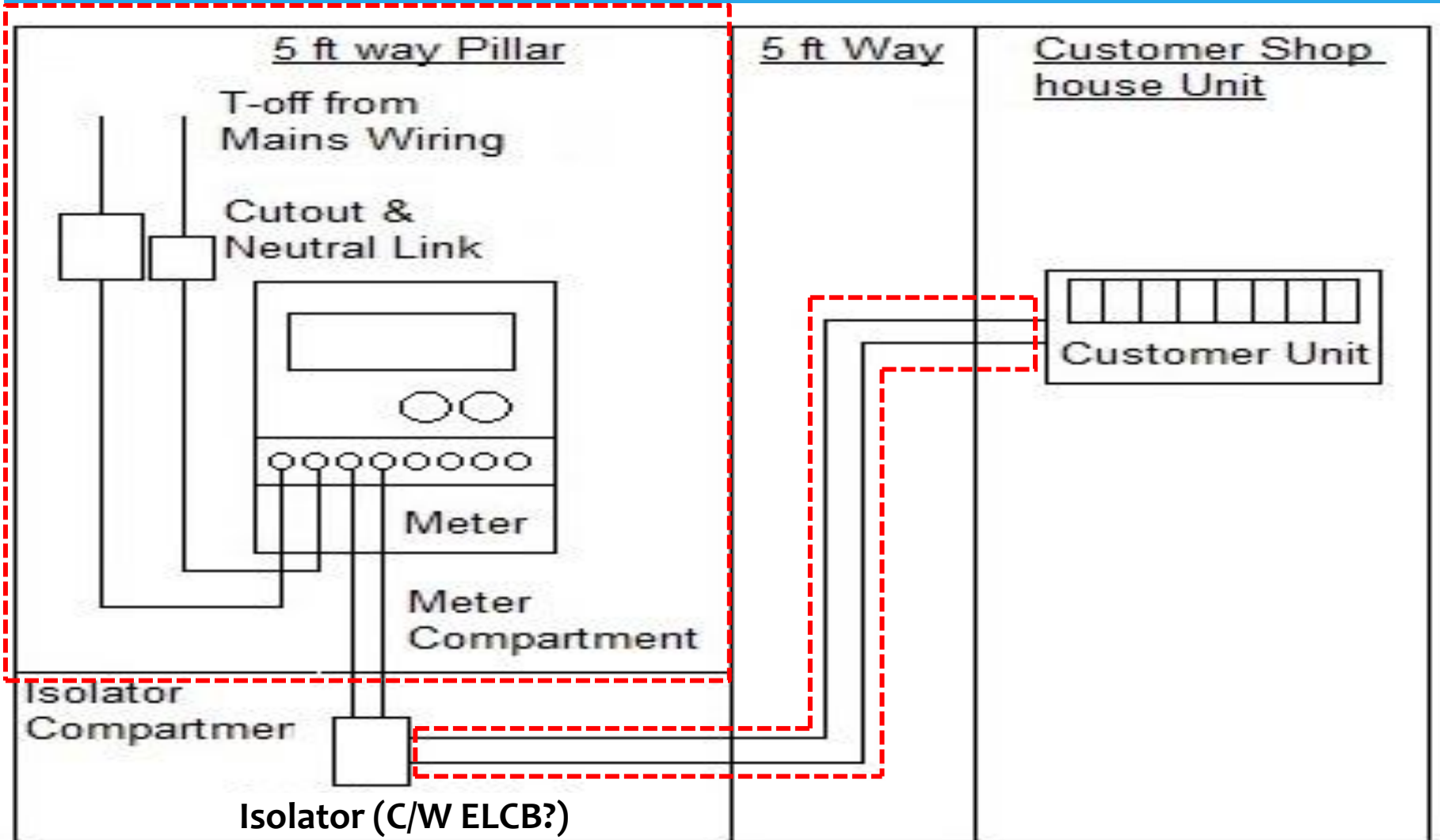
Recessed 5 ft way pillar facing the stairway



FRONT ELEVATION



SECTION B-B

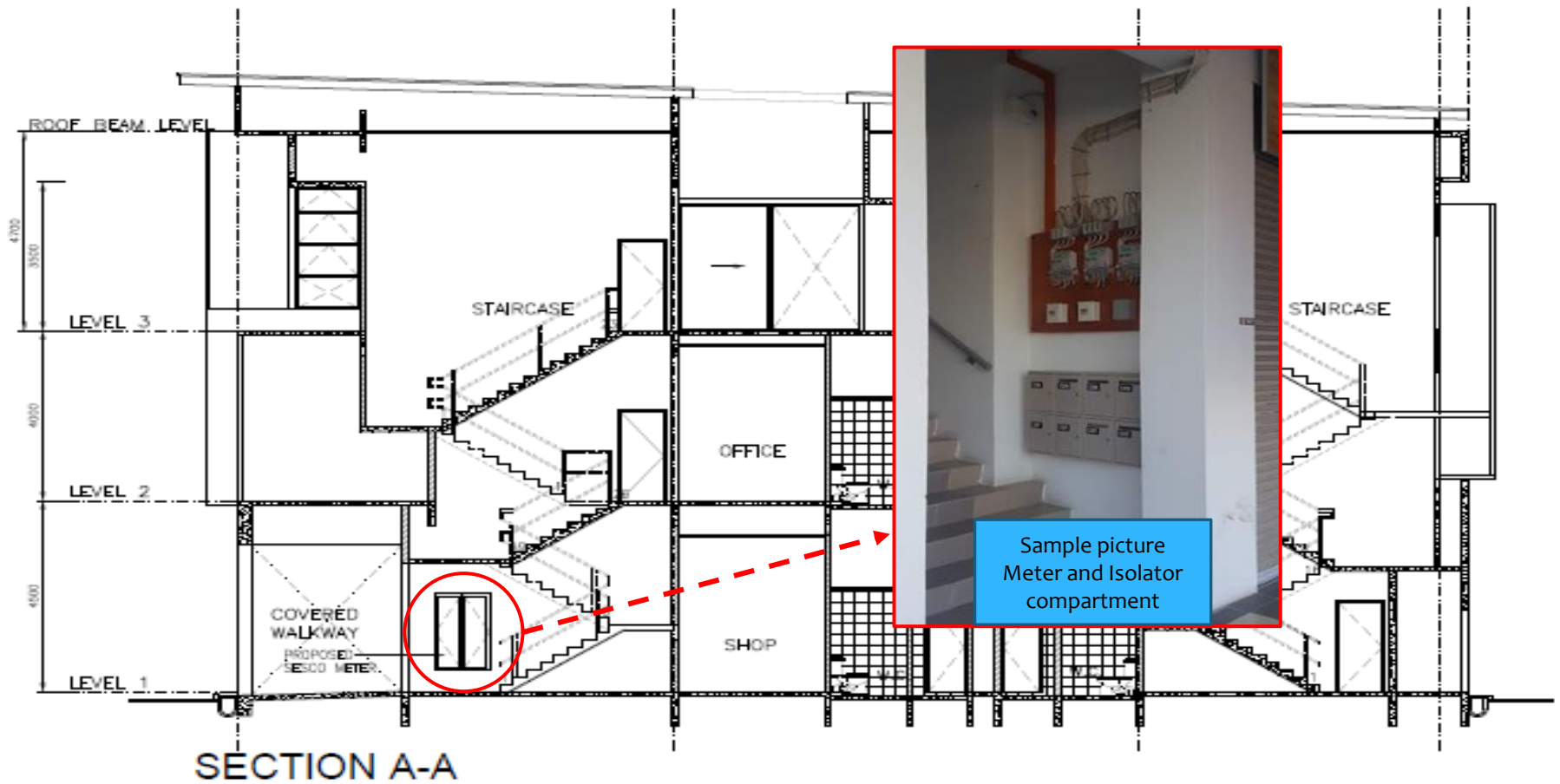


----- Cable running thru the 5 ft way will be under responsibility of SEB

Table 4.2 : Option 2

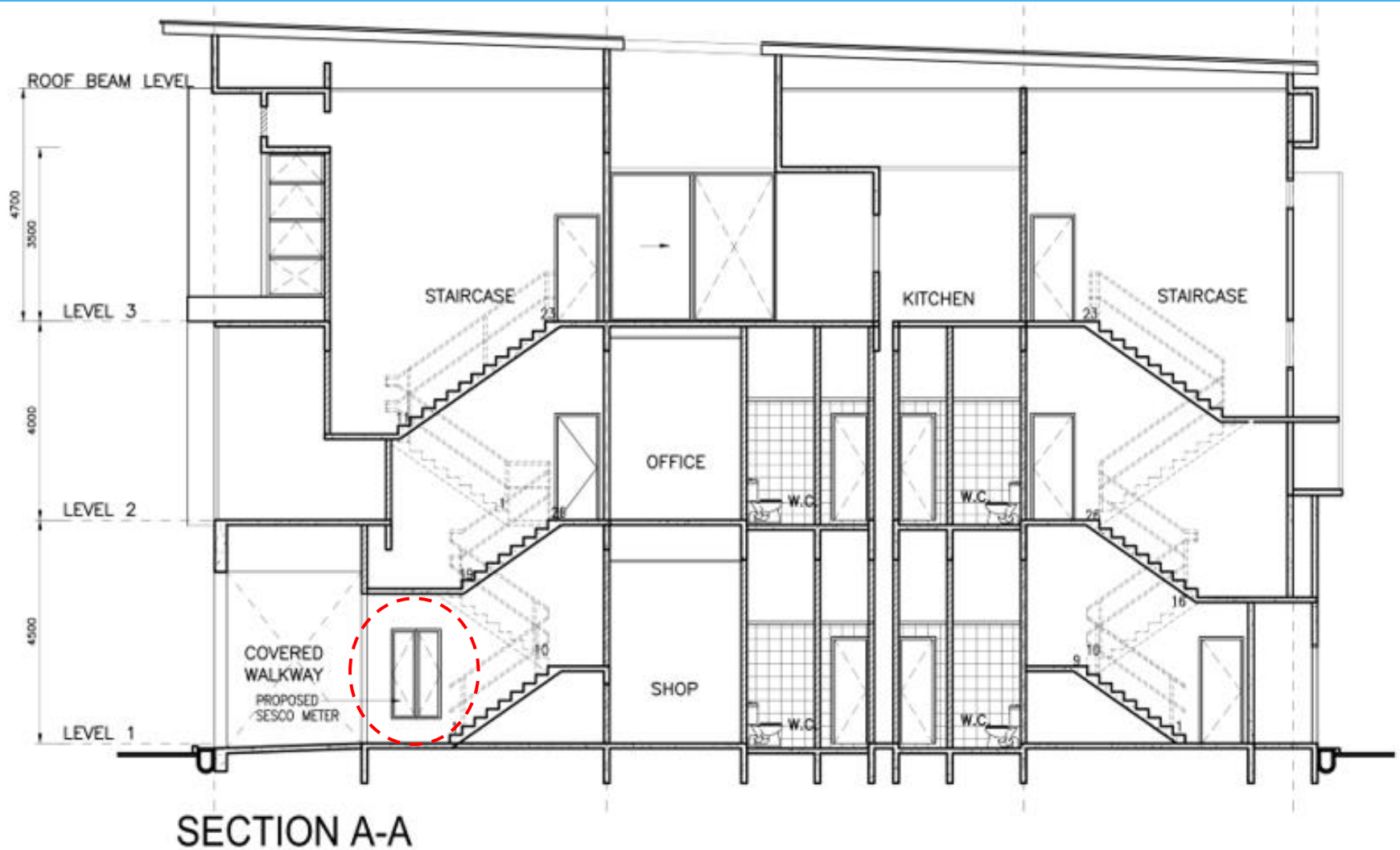
SESCO Equipment	Customer Equipment	Cable in public Area
<ol style="list-style-type: none">1. Service Wires.2. Cutout, Neutral Link.3. Meter tail between CO/NL.4. Meter.	<ol style="list-style-type: none">1. Meter Tail between isolating switch.2. Isolating Switch.3. Customer Unit.4. Meter enclosure (cabinet) and meter board.	<p>Cable running thru the 5 ft way will be under responsibility of SEB</p>

4.3 Option 3 – Interior/recessed wall at the stairway.

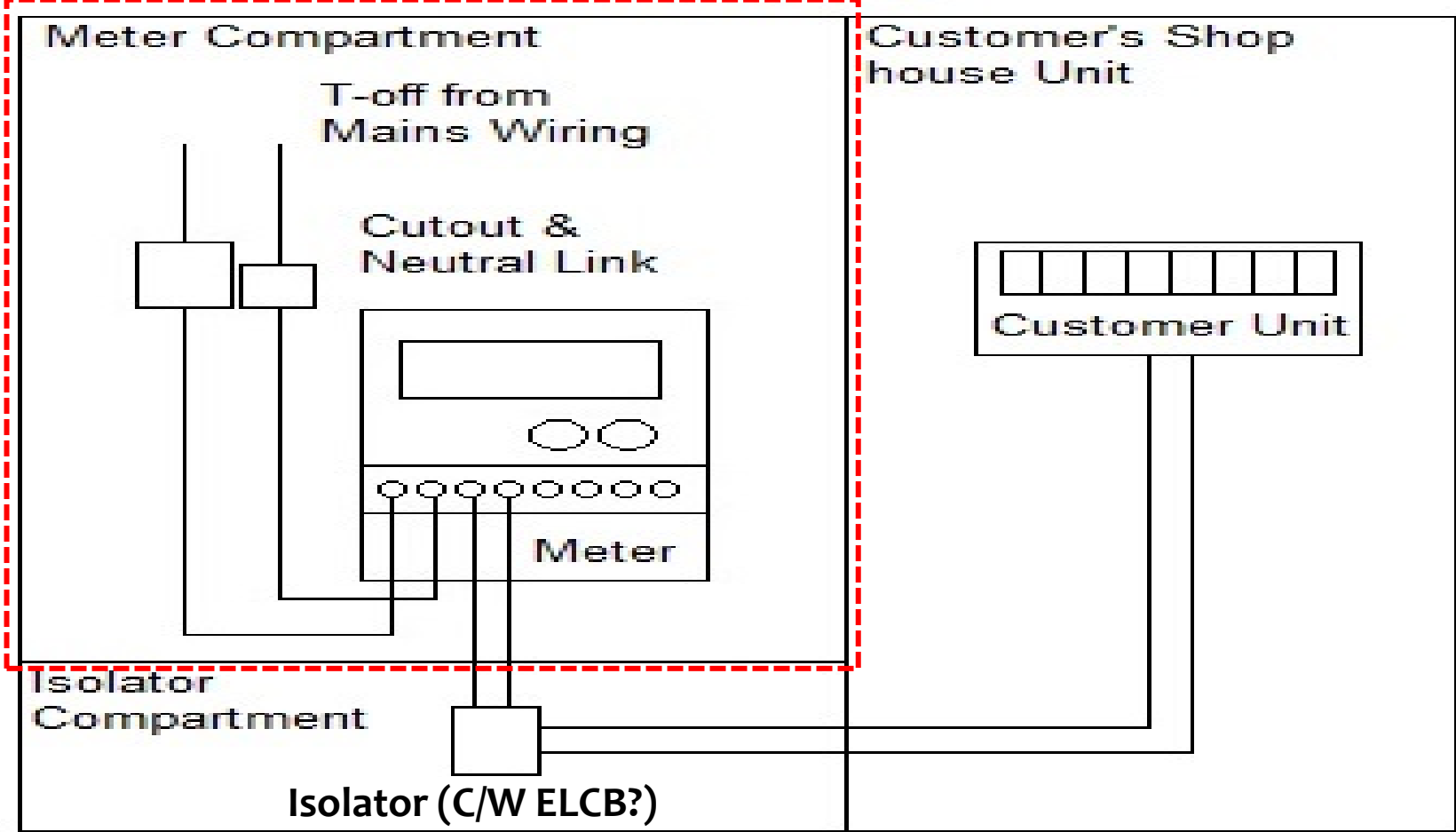


Appendix C

Interior/recessed wall at the stairway



Meter Cabinet



----- SEB responsibility

Table 4.3 : Option 3

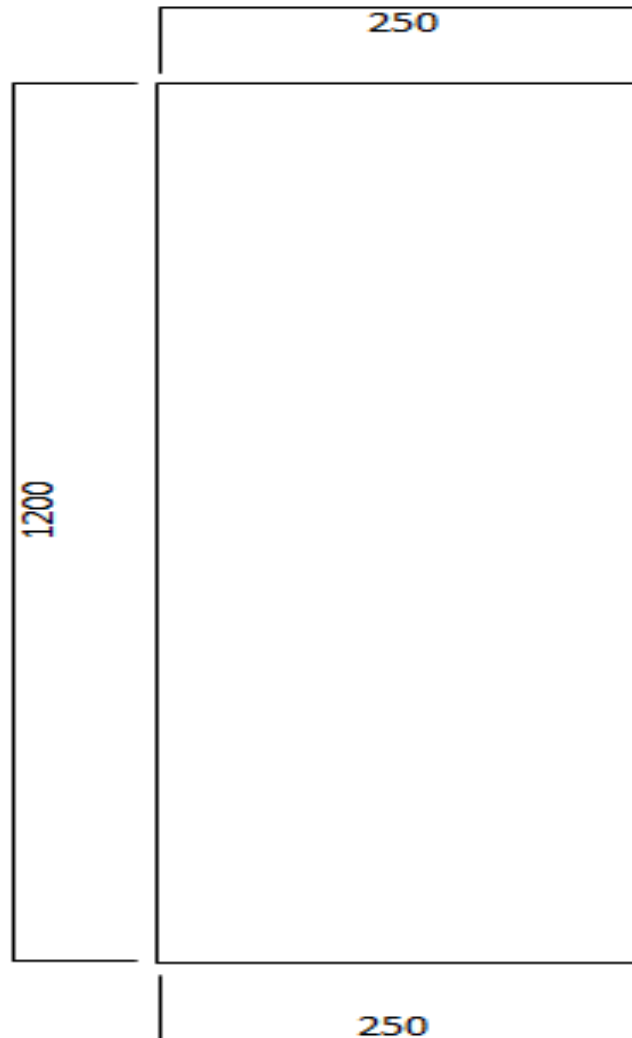
SESCO Equipment	Customer Equipment
<ol style="list-style-type: none">1. Service Cable.2. Cutout, Neutral Link.3. Meter tail between Cut Out/Neutral Link.4. Meter.	<ol style="list-style-type: none">1. Meter Tail between isolating switch.2. Isolating Switch.3. Customer Unit.4. Meter enclosure (cabinet) and meter board.

5. Deviation

5.1 This design is a proposal for the builder/designer/developer to consider for future shop houses to be developed. They can propose their own design but SEB and the local council/BDA will have to agree on the final design chosen. For any future meter relocation the requesting party will bear the relocation cost.

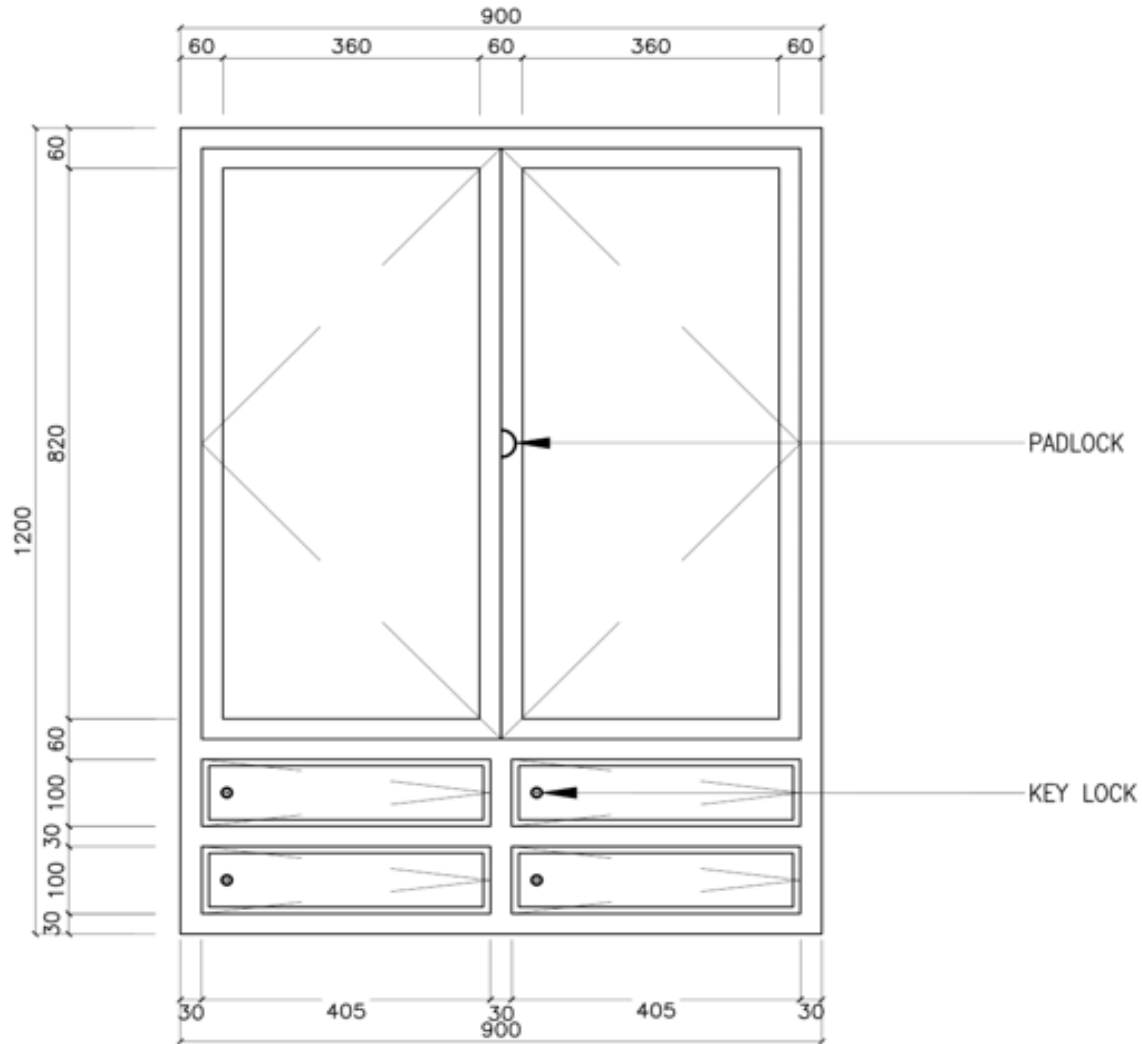
Appendix D

Meter Cabinet (Sample)



Appendix D

Meter Cabinet (Sample)



Any Comments