

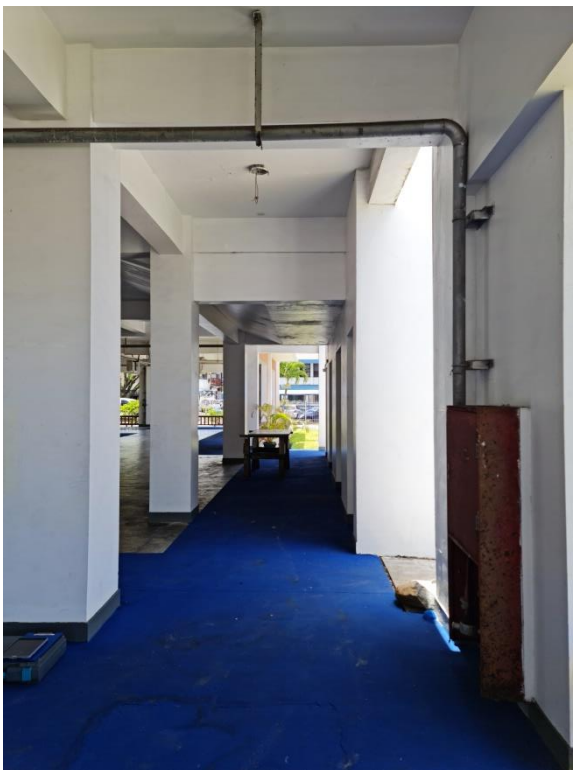
## MOJ Proposed lift location details;

Existing site condition;



Northern view of the location towards the Avarua harbour,

- Single concrete column in the background, door for a storeroom to the left of the opening and the two concrete columns in the foreground



View towards the west,

- Fire hydrant box in the foreground on the wall to the right, with 100mm diameter galvanised water pipeline connected to the fire hydrant, note floor colour of blue only partial while rest of floor smooth concrete finish



Overhead Air condition unit

The overhead air condition unit will be directly in the entrance way of the lift, and the condensation from the unit is now dripping directly on to the floor which can be hazardous to the users of the lift.



Frontal view of the lift location with the opening to the east of the stairway

## Concrete strength assessment

Non-destructive assessment of the ground floor concrete slab was carried out using the Schmidt hammer.

Four points were selected;

Point one average result – 39MPa

Point two average result – 40MPa

Point three average result – 39MPa

Point four average result – 35MPa

Based on the above results the estimated concrete compressive strength of the area tested will be about 30 - 40MPa.

The compressive test of the first floor slab is yet to be carried out and including the scanning of the two slabs for the location and sizes of the rebars in the slabs.

Site assessment – Tuesday 6<sup>th</sup> December 2021

- First floor slab assessment,
  - o Four spots within the lift location were tested for compressive strength
    - Point 1 – 55.50MPa
    - Point 2 – 46.00MPa
    - Point 3 – 53.17MPa
    - Point 4 – 57.50MPa
  - o It is understood that the concrete was site mix concrete rather than batched concrete, therefore possible inconsistent with mixing and quality.
- Floor slab thickness – 200mm thick
- Reinforcement – unable to determine the bar size and the spacing of bars and also if double or single layered.