

## PART C

### LANE USE AND VARIABLE MESSAGE SIGNS (LUS) / EMERGENCY FACILITIES (TUNNELS)

#### LANE USE AND VARIABLE MESSAGE SIGNS (LUS)

**247** Lane Use Signs are overhead signs in the KPE, CTE, MCE, Woodsville and Fort Canning tunnels which are used to inform motorists of any precautions to take prior to proceeding ahead on the lane. Each lane use sign will display either a green-down arrow, flashing amber cross or a red cross. A green-down arrow indicates that a motorist can drive on ahead; a flashing amber cross indicates that a motorist needs to drive with caution (e.g. obstructions on the lane ahead); and a red cross indicates that a motorist shall not proceed beyond the sign. Motorists travelling in the tunnel are to adhere to the displays shown on these overhead lane use signs.



**248** The Variable Message Signs on the road are used to disseminate traffic condition information to motorists.

There are various types of Variable Message Signs along the tunnels and at arterial roads leading to tunnels:

- (a) Entrance Variable Message Signs (EVMS): Located at the entrance of the slip road leading into the tunnel.



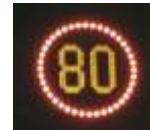
- (b) Arterial Variable Message Signs (AVMS): Located along an arterial road that leads to the entrance to the tunnel.



- (c) Tunnel Variable Message Signs (TVMS): An overhead sign located in the tunnel.

**249** For closure of the KPE, MCE and Woodsville tunnel, barriers and traffic signal controls at entry slip road approaches will be activated.

**250** Variable speed limit signs are also provided in the KPE and MCE tunnels. In smooth traffic conditions, the display on the signs will show a posted speed limit (with a red ring) that requires motorists' compliance. At times of congestion, recommended lower speed limits can be displayed (without a red ring) to smoothen out the flow, reduce the risk of flow breakdown and minimise the risk of accidents.



**251** KM markings are found on the vertical face of the kerb wall in the MCE, KPE and CTE tunnels to provide location referencing for the motorists



#### EMERGENCY FACILITIES

##### Exit

**252** Exit doors are located next to both the slow and fast lanes of the MCE, KPE and CTE tunnels.

**253** Escape Staircase doors - These exit doors next to the slow lanes can generally be found at intervals of **500m** in the main tunnel. There are also exit doors along the slip roads. These exit doors lead to escape staircases which open up to surface roads or open areas.



**254** Cross-passage doors - These exit doors next to the fast lanes are located at intervals of **100m** in the main tunnel and they lead to the opposite-bound tunnel.



CTE Escape Staircase Doors



CTE Cross Passage Doors

**255** During an emergency, additional flashing lights at the doors will be lighted up to alert motorists of the emergency situation and the need for evacuation, and to draw their attention to the exit locations.

##### Communication (OCC - Operations Control Centre)

**256** Emergency telephones are provided in the tunnel next to the slow lane at approximately 100m intervals.

**257** Each phone also has an amber light next to it that can be switched on to indicate to the motorist the OCC's intention to communicate with him/her in the MCE and KPE tunnel. The motorist can pick up the phone set to speak to the OCC.



Emergency (SOS) Phone