Appendix 10.1
Alternative Options for East Ventilation Building and its associated Vent Shaft and Central Ventilation Building
Alternative Option of East Ventilation Building
- Building height reduced to +12.5mPD
- Floor Area of approximately 770m² (above ground) with an additional area of 805m² for a basement (below ground)
- The exhaust is separated from the Building and located to a vent shaft at the eastern breakwater of CBTS
- Landscaped roof
- Trellis with climbers on the east and south façade of building

Preferred Option of the East Ventilation Building

Alternative Options for the East Ventilation Building
Schematic Design of Vent Shaft at Breakwater in Causeway Bay Typhoon Shelter

Preferred Option of the Vent Shaft

Option 7 is preferred in view of its compatibility with the future harbour environment. It shows a possible appearance of the vent shaft which can be further developed based on the following design criteria for visual mitigation for vent shaft:

- The Vent Shaft shall be designed with a compatible disposition, form, colour and finishing to create a harmonious visual relationship with the Harbour.
- Finishing materials shall have sensitively design in form, basic colour, colour/tone variation, micro- and macro-texture, and reflectivity/light absorbance to avoid glare.
- The design of the vent shaft shall be at 25mPD at maximum.

Various designs for the Vent Shaft - numbering from right to left:

1. Sculpture (idea from the shape of the famous HK Fishing junk sails) to frame the circular vent shaft.
2. Literally using the “HK” alphabets as the facade of the vent shaft.
3. Sculpture (idea from the shape of flat planes instead of junk sails) to frame the circular vent shaft.
4. Using strong geometric form to create a "Civic Sculpture" to down play the vent shaft image - option 1.
5. Using strong geometric form to create a "Civic Sculpture" to down play the vent shaft image - option 2.
6. Design development of 5 using 2 fins to lighten up the form and create variation to the viewers at different angle.
7. A lighthouse design which matches the future harbour environment to achieve visual uniformity.

Alternative Options for the Vent Shaft

Photomontage showing the view from Causeway Bay to North Point
Approximate Dimensions of the Vent Shaft

- **10m dia.**
- **9 m dia.**
- **6.5 m dia.**
- **7.5 dia.**
- **5 m**
- **Overall height = 20 m**
- **Mid discharge height = 16.25 m**

Louvres cover a sector of 250 deg. approx. to provide an area of around 94 sq m discharged towards the harbour and inclined at 45 deg. upwards.

Section A-A

Location of Vent Shaft

- East Vent Shaft
- Causeway Bay Typhoon Shelter
- North Point
- East Breakwater