

Brief Technical Description of Proposed Dolphins

For Hong Kong & Whampoa Dock Co., Ltd.

Scheme "C".

The scheme consists of 2 dolphins. Each dolphin is supported by 33 battered and 18 vertical piles.

One dolphin shall be able to sustain a blow from a 20,000-ton ship approaching the dolphin with a speed of 1 ft/sec., under an angle of 90 degrees. Size of R.C.C. piles is 18" square and the length is taken as 75 ft. approx.

Weight of top structure is approx. 460 tons. Maximum compression in piles is taken as 30 tons for permanent load and 50 tons for temporary. Max. tension is 15 tons.

Area of top of dolphin is 45' x 40' and could be used as a small jetty.

The inclined piles are designed in such a way as to avoid obstruction to small ships and junks.

Small steamers shall be able to use one dolphin. This type of dolphin is comparatively easy to construct.

For actual tendering minimum 15 days is required. (Driving test piles and preparing detailed drawings).

*Jaes N. Bensusan 7/2/52*