

Contract No.: DC/2006/01
Drainage Improvement Works in Sai Kung

Details of Fish Ladder at Ho Chung Channel

1.0 Introduction

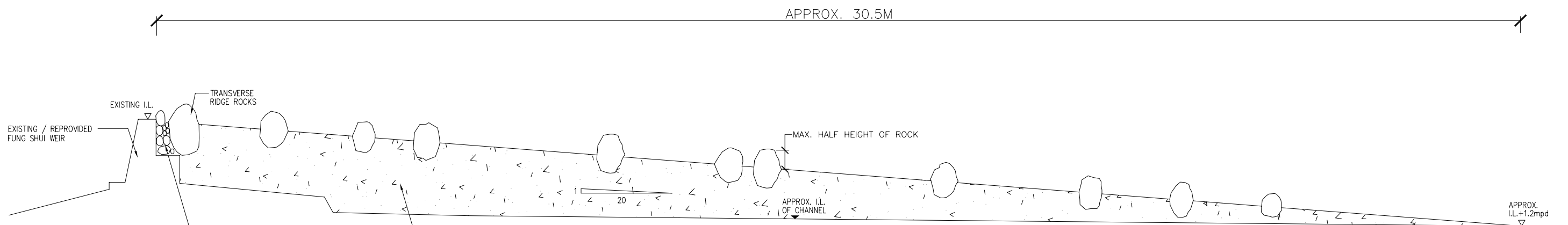
Sum Kee Construction Limited is building the Project entitled “Drainage Improvement Works in Sai Kung”. Ho Chung is a flooding black spot identified by DSD. The immediate downstream of the confluence near the Ho Chung Lowland Pumping Station and Ho Chung Village is a flooding problem area. Hence, river training works are designed. Having conducted the feasible design, river widening is a more reliable and low cost option to improve the drainage capacities of rivers compared to the flood storage option.

Following consultation with green groups and local residents in Ho Chung during design stage, a weir will be provided at the downstream area in order to maintain the Ho Chung Channel in wet condition and the existing Fung Shui Weir at Ho Chung will be retained. To enhance the value of the River for fish, fish ladders will be constructed over the weirs along the river channel. The fish ladders would facilitate movement of aquatic organisms over the obstacle and allow migration within the Channel.

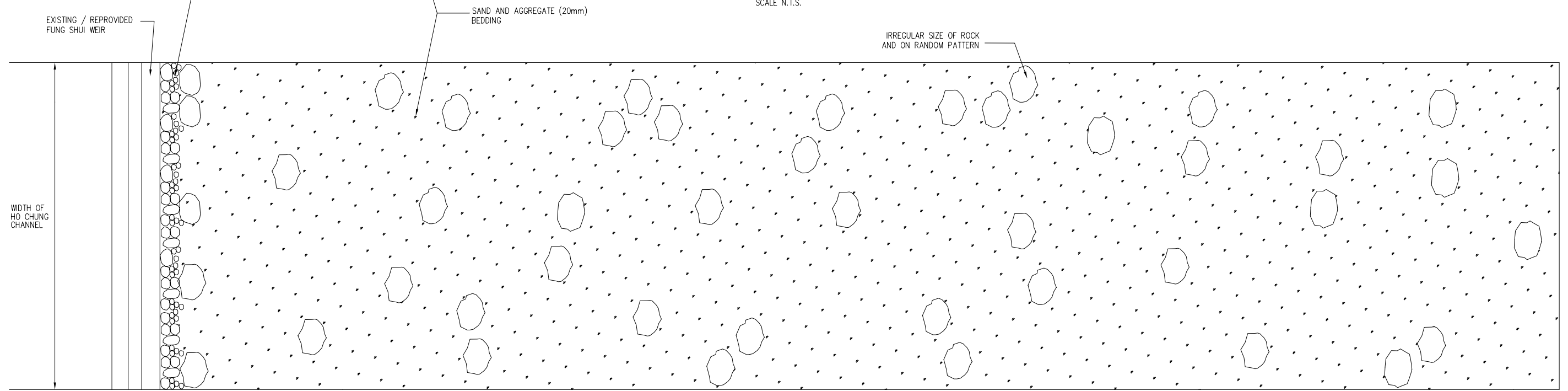
2.0 Methodology

To enhance the ecological conditions, natural bedding will be provided for the fish ladder. To make the fish ladder more environmentally friendly, the fish ladder base is lined with sand and aggregates (20mm) to produce a suitable environment similar to the existing river to encourage the recolonisation of improved river sections by aquatic communities. A number of irregular size of rock to be placed on top of the bedding in random pattern to form the fish ladder.

The details of fish ladder is shown on attached drawing no. DC200601/SK006C.



LONGITUDINAL SECTION OF FISH LADDER (ROCK-RAMP FISHWAY)
SCALE N.T.S.



PLAN OF FISH LADDER (ROCK-RAMP FISHWAY)
HORIZONTAL SCALE N.T.S.
VERTICAL N.T.S.

NOTE:
THE ROCK AT FISH LADDER (ROCK-RAMP FISHWAY)
SHALL MAKE USE OF EXISTING ROCK AT RIVER.

- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 2. ALL LEVELS ARE IN METRES TO MEAN PRINCIPAL DATUM (mPD) UNLESS NOTED OTHERWISE.

SUM KEE
CONSTRUCTION
LIMITED

PROJECT: CONTRACT NO. DC/2006/01

TITLE:
DETAIL OF FISH LADDER

SCALE N.T.S.	DATE 25July07	DRAWN FM
Sketch NO. DC200601/SK006		CHECKED KT
SHEET: 1 of 1		REV. C