

# **Yung Shue Wan Development, Engineering Works, Phase 2**

## **PROJECT PROFILE**

### **1. BASIC INFORMATION**

#### 1.1 Project Title

Yung Shue Wan Development, Engineering Works, Phase 2

#### 1.2 Purpose and Nature of Project

In accordance with the Lamma Island Outline Development Plan, reclamation along the waterfront of Yung Shue Wan is scheduled to be implemented under 2 phases to provide land for meeting the planned need of residential/commercial developments, government uses, essential infrastructures and community facilities on Lamma Island. The Phase 1 reclamation, which is situated at the southern part of Yung Shue Wan, is currently under construction while the proposed project will implement the Phase 2 reclamation.

Upon the completion of this project and the above-mentioned facilities, there will be a more pleasant environment at Yung Shue Wan for both local residents and visitors.

#### 1.3 Name of Project Proponent

Civil Engineering Department

#### 1.4 Location and Scale of Project and History of Site

Island (as shown on Drawing No. P20284-2), and includes the following items of works:

- (a) about 350 m of seawall and about 200 m of artificial beach;
- (b) construction of emergency vehicular access (EVA) and a seafront promenade;
- (c) drainage and sewerage works;
- (d) improvement works to existing public piers; and
- (e) landscape works.

The site of this project is mainly an existing coastline and adjacent to an existing indigenous village.

### 1.5 Number and Types of Designated Projects to be Covered

This project profile covers the following designated projects:

- (a) reclamation works (including associated dredging works) more than 1 ha in size and boundaries of which are less than 500 m from an existing coastal protection area or less than 100 m from an existing residential area [Item C.2, Part I of Schedule 2 under Environmental Impact Assessment Ordinance (EIAO)]; and
- (b) construction works partly within an archaeological site (Item Q.1, Part I of Schedule 2 under EIAO).

### 1.6 Name and Telephone Number of Contact Person

## **2. OUTLINE OF PLANNING AND IMPLEMENTATION PROGRAMME**

- 2.1 The planning and design of this project will be carried out by the project proponent while the construction works will be carried out by contractors and supervised by the project proponent. It is intended to engage consultants to undertake the environmental impact assessment (EIA) study.
- 2.2 It is tentatively scheduled that the EIA study will commence in July 2000 for completion by March 2001 and that the construction will commence in December 2002 for completion by December 2004.
- 2.3 It is expected that this project has no major interaction with other projects.

## **3. POSSIBLE IMPACTS ON THE ENVIRONMENT**

- 3.1 This project will involve dredging and filling works for the seawall and reclamation; construction works for the EVA, promenade and modification of piers; laying of stormwater drains, sewers and utilities; and landscape works. It is anticipated that possible transient and permanent impacts on the environment are as follows:

### 3.2 Water Quality

During the dredging and filling processes, there may be input of pollutants entering into the aquatic environment and hence affect the quality of water bodies adjoining to the site. In addition, the surface runoff stemming from the site during and after the reclamation may also affect the water quality.

### 3.3 Noise

During the construction stage, the operation of marine and land plant may generate intermittent and transient noise nuisance to the nearby noise sensitive receivers. There may also be limited scale of noise impacts on local resident induced by plying motorised sampans/kaitos using the modified public pier.

### 3.4 Air Quality

During the construction stage, the emission of dust from the filling processes and gaseous emissions from the constructional plant may have an impact on the air quality, especially in dry seasons.

### 3.5 Visual Quality and Landscape

After the completion of reclamation and other structures, there may be a loss of the high visual quality and landscape at the site and its surrounding areas.

### 3.6 Natural Habitat/Ecology

The site of this project does not encroach upon any existing or proposed coastal country park, conservation area, site of special scientific interest and the like; and is annexed to developed residential areas. Nevertheless, the EIA study will analyse any potential impacts and recommend mitigation measures, if appropriate.

### 3.7 Cultural Heritage

Since part of the construction works falls within an archaeological site, the EIA study will analyse any potential impacts on cultural heritage and recommend mitigation measures, if appropriate.

## **4. MAJOR ELEMENTS OF THE SURROUNDING ENVIRONMENT**

4.1 Sensitive receivers and sensitive parts of the natural environment, which may be affected by the proposed project, include the following located at Yung Shue Wan:

- (a) existing village type residential/commercial developments to the north, east and southeast of the site;
- (b) an existing and a proposed primary schools and an existing kindergarten to the east of the site;
- (c) an existing clinic to the southeast of the site;
- (d) an existing Chinese temple to the southeast of the site;
- (f) a small stream flowing through the northern part of the site;

- (g) a coastal protection area to the north of the site;
- (h) high visual value of the existing environment; and
- (i) an archaeological site.

4.2 The following facilities being constructed or planned at the Yung Shue Wan Phase 1 reclamation may be affected by the proposed project:

- (a) a planned sewage treatment plant; and
- (b) a construction waste/refuse transfer station being built.

## **5. ENVIRONMENTAL PROTECTION MEASURES TO BE INCORPORATED IN THE DESIGN AND ANY FURTHER ENVIRONMENTAL IMPLICATIONS**

### **5.1 Water Quality**

Taking into account the scale of reclamation under this project, the quantities of dredged and filling materials will be small, and hence the effect of dredging and filling on water quality is expected to be insignificant. In the design of reclamation, dredging would be limited only for the construction of seawall in order to keep its impact to a minimum. Silt curtain, among other appropriate mitigation measures, will also be provided to contain the sediment losses during construction.

By implementing adequate construction site drainage according to the good practices outlined in ProPECC PN 1/94 “Construction Site Drainage”, the surface runoff can be controlled satisfactorily without significant adverse impact during construction.

### **5.2 Noise**

The noise level arising from the construction activities will be regulated by the licensing conditions of construction noise permits issued under the Noise Control Ordinance.

The mitigation measures recommended in ProPECC PN 2/93 “Noise from Construction Activities – Non-statutory” will be implemented, as appropriate, to control the noise impacts. In addition, quieter powered machinery and plant, and/or movable noise barriers can be used to reduce the noise generated to acceptable levels during construction.

### **5.3 Air Quality**

The potential dust impacts arising from the construction activities will be controlled by the Air Pollution Control Ordinance and its subsidiary Regulations. Appropriate dust suppression measures such as watering will be enforced during construction.

5.4 Visual Quality and Landscape

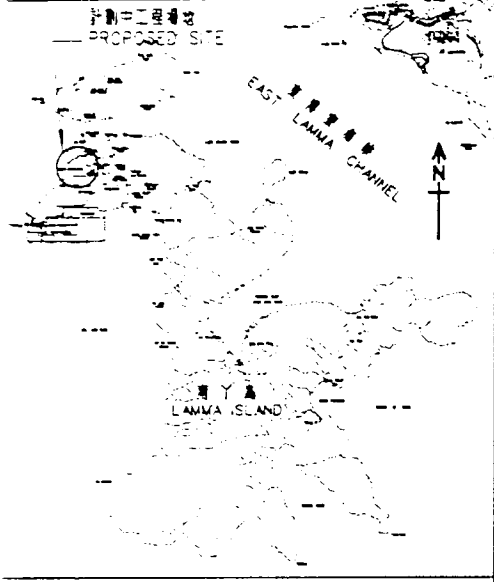
During the design stage, proper consideration will be given with a view to eliminating any adverse visual effects caused by the appearance of the project, and opportunities will be seized to complement the existing landscape and visual characters of the setting.

- 5.5 Apart from the above-mentioned mitigation measures, the EIA study will investigate in detail the environmental and archaeological impacts and to propose appropriate mitigation measures which will be incorporated into the design and implemented during the construction. The effectiveness of such mitigation measures adopted will also be closely monitored by implementing appropriate monitoring and audit schemes to ensure their effectiveness.

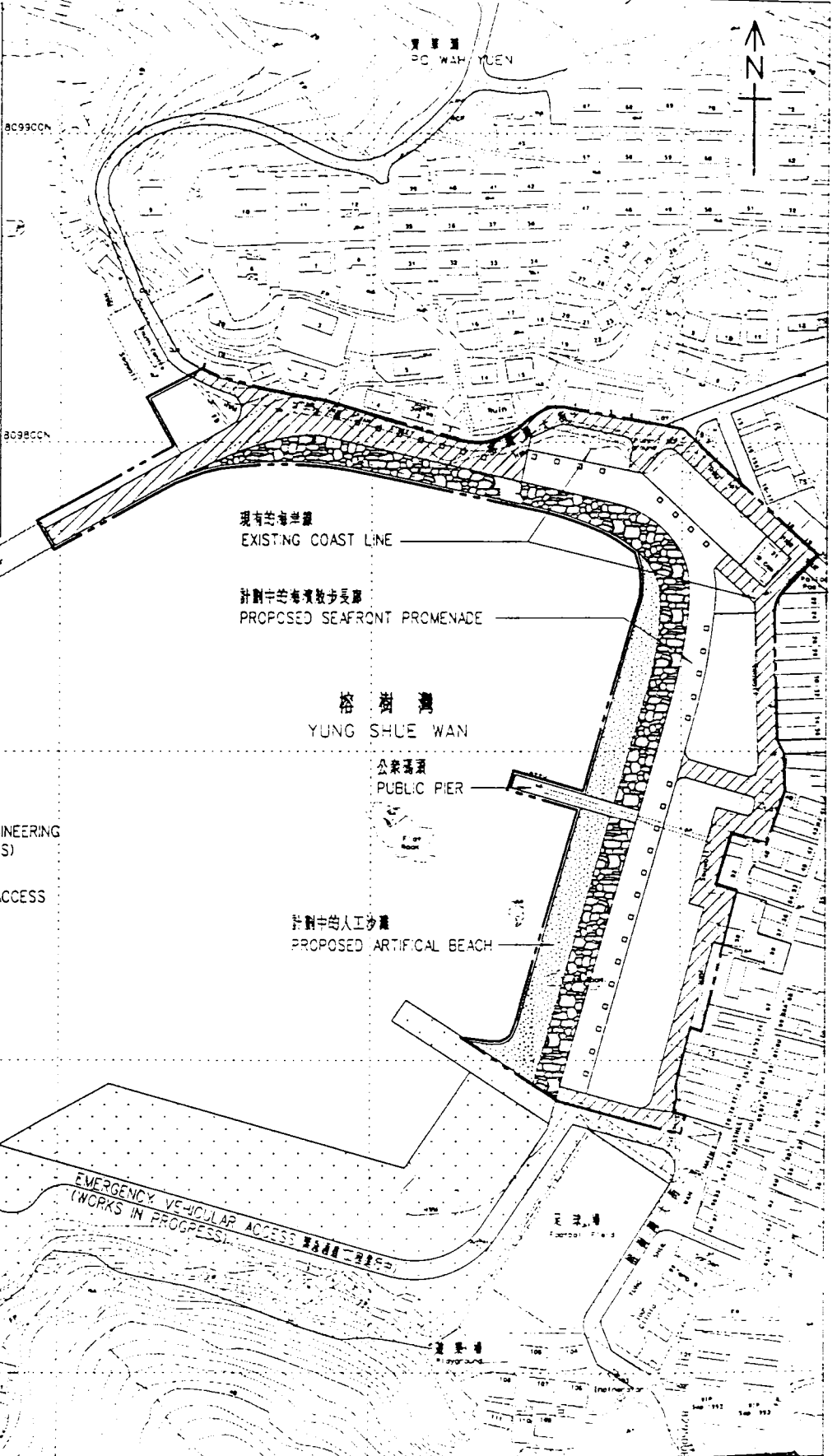


**Attachment** : Drawing No. P20284-2.

Port Works Division  
Civil Engineering Department

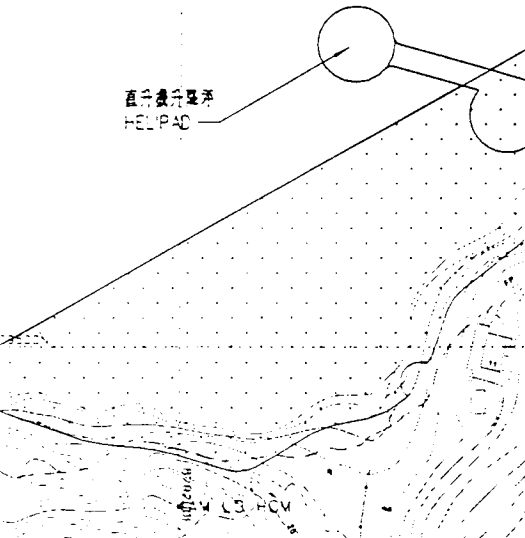


位置圖 LOCATION PLAN  
比例 SCALE 1:100 000



圖例 LEGEND:

- PROJECT BOUNDARY
- YUNG SHUE WAN DEVELOPMENT, ENGINEERING WORKS, PHASE 1 (WORKS IN PROGRESS)
- PROPOSED EMERGENCY VEHICULAR ACCESS
- PROPOSED RUBBLE MOUND SEAWALL
- PROPOSED TREE GRILLE
- ARCHAEOLOGICAL SITE BOUNDARY



FOR CHECKING PURPOSES

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title  
 榕樹灣第二期發展工程 -  
 作為環境影響評估研究的工程項目簡介  
 YUNG SHUE WAN DEVELOPMENT,  
 ENGINEERING WORKS, PHASE 2 -  
 PROJECT PROFILE FOR EIA STUDY

	name	initial	date
designed	P.L. LAI		11.1.2000
drawn	P.K. SO		14.1.2000
checked	P.L. LAI		
approved			
office	PORT WORKS DIVISION CIVIL ENGINEERING OFFICE		

drawing no	scale
P20284-2	1:2000



CIVIL ENGINEERING  
 DEPARTMENT  
 HONG KONG

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