

ITEM FOR PUBLIC WORKS SUBCOMMITTEE OF FINANCE COMMITTEE

HEAD 706 - HIGHWAYS

Transport - Roads

724TH – Road works in Chai Wan reclamation area

Members are invited to recommend to the Finance Committee the upgrading of **724TH** to Category A at an estimated cost of \$18.2 million in money-of-the-day prices for the construction of a road network in the Chai Wan reclamation area.

PROBLEM

The Chai Wan reclamation area has no permanent road network to serve the planned developments therein.

PROPOSAL

2. The Director of Highways, with the support of the Secretary for Transport, proposes to upgrade **724TH** to Category A at an estimated cost of \$18.2 million in money-of-the-day (MOD) prices for the construction of a road network in the Chai Wan reclamation area.

PROJECT SCOPE AND NATURE

3. The scope of works for **724TH** comprises -

/ (a)

- (a) construction of a single two-way carriageways of about 950 metres long, eight to 13.5 metres wide, and associated footpaths of 2.25 to three metres wide, in the Chai Wan reclamation area;
- (b) widening of a 330-metre section of Shing Tai Road at the south of its junction with Chong Fu Road from a single four-lane to a single five-lane carriageway together with the reconstruction of existing footpaths; and
- (c) ancillary traffic aids, street lighting, landscaping and drainage works.

A site plan is at Enclosure 1. We intend to invite tenders in December 2000 and plan to start the construction works in March 2001 for completion in November 2002.

JUSTIFICATION

4. To tie in with the gradual completion of developments¹ in the Chai Wan reclamation area from 2001 onwards, we need to provide a permanent road network to serve the area. We will provide carriageways of standard widths, at-grade pedestrian crossings at road junctions, a mini-roundabout and footpaths for the use of vehicular and pedestrian traffic.

5. Since the traffic flow at Shing Tai Road will increase because of the developments in the reclamation area, we also propose to widen a section of Shing Tai Road from single four-lane to single five-lane. The additional lane will be designated for traffic heading to or departing from the reclamation area.

FINANCIAL IMPLICATIONS

6. We estimate that the capital cost of the project to be \$18.2 million in MOD prices (see paragraph 7 below), made up as follows -

/ (a)

¹ The developments on Chai Wan reclamation area include a permanent bus depot, the Hong Kong Post's Super Centre and other proposed industrial developments. The bus depot will be completed in mid-2001, serving a fleet size of 430 buses. The Hong Kong Post's Super Centre will be completed by 2004.

		\$ million	
(a)	Road works	10.5	
(b)	Ancillary works on drainage, traffic aids and street lighting	5.0	
(c)	Landscaping works	0.4	
(d)	Contingencies	1.6	
	Sub-total	17.5	(at September 2000 prices)
(e)	Provision for price adjustment	0.7	
	Total	18.2	(in MOD prices)

7. Subject to approval, we will phase the expenditure as follows -

Year	\$ million (Sept 2000)	Price Adjustment Factor	\$ million (MOD)
2001 - 2002	8.2	1.02250	8.4
2002 - 2003	7.9	1.05627	8.3
2003 - 2004	1.4	1.08795	1.5
	17.5		18.2

8. We have derived the MOD estimates on the basis of the Government's forecast of trend labour and construction prices for the period 2001 to 2004. We will tender the works under a lump sum contract with firm bills of quantities. The contract will not provide for price adjustments as the contract period will not exceed 21 months.

9. We estimate the additional annual recurrent expenditure to be \$421,500.

PUBLIC CONSULTATION

10. We consulted the Traffic and Transport Committee of the then Eastern Provisional District Board on 22 September 1999 on the proposed works. The Committee had no objection to the project. Nevertheless, a member of the Committee objected to the rezoning of the sites in the reclamation area for industrial use. The future land use of individual site in that area is being considered by the District Planning Officer (Hong Kong). The Eastern District Council will be further consulted on this matter in due course.

11. We gazetted the proposed works under Roads (Works, Use & Compensation) Ordinance on 25 February 2000 and received no objection. The Secretary for Transport authorized the proposed works on 26 May 2000.

ENVIRONMENTAL IMPLICATIONS

12. The Director of Highways completed a Preliminary Environmental Review (PER) for the project in November 1997. The PER concluded that the project would not give rise to environmental impacts, including vehicular emission, that exceed established criteria. The Director of Environmental Protection vetted the PER and agreed that an Environmental Impact Assessment would not be necessary. For short term environmental impacts, we will control noise, dust and site run-off nuisance during construction through the implementation of appropriate mitigation measures in the works contract.

13. We estimate that 80 cubic metres of construction and demolition (C&D) waste will be disposed of at landfills and 2 000 cubic metres of public fill will be delivered to other construction sites as imported filling material. Ways of minimizing the generation of C&D materials were considered at the planning and design stage. We will require the contractor to implement necessary measures to minimize the generation of C&D materials. Where such materials are produced, we will try to reuse and recycle them. If this is not possible, C&D materials will be disposed of through designated public filling facilities and/or in landfills through a trip ticket system. The reuse, recycling and disposal of C&D materials will be properly recorded for monitoring purposes.

LAND ACQUISITION

14. The proposed works do not require any land acquisition.

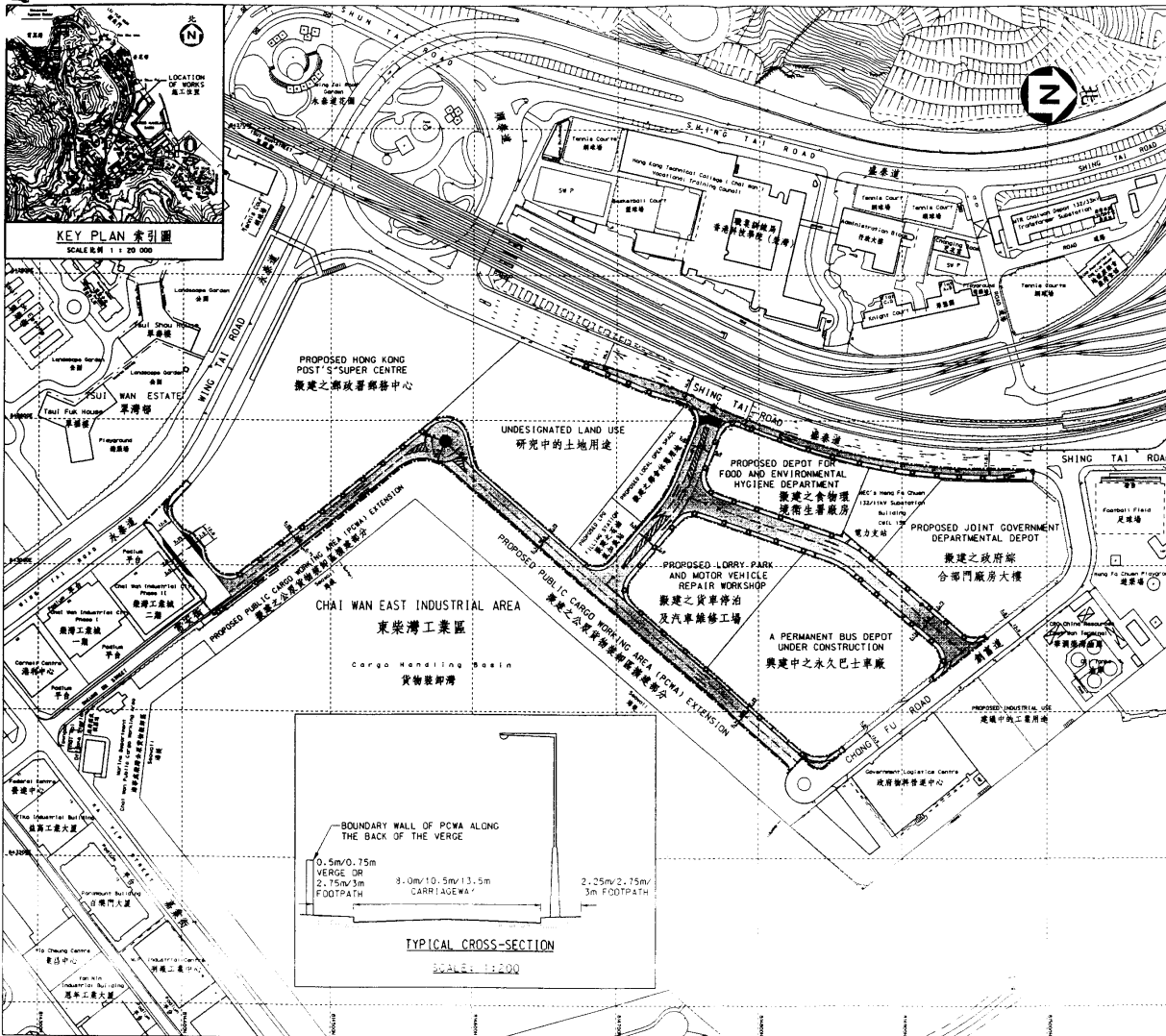
BACKGROUND INFORMATION

15. We included **724TH** to Category B in September 1998. We have substantially completed the detailed design and drawings for the proposed works using in-house resources.

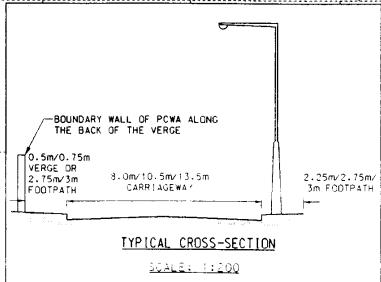
16. We estimate that the project will create some 23 jobs with a total of 328 man-months, comprising three professional/technical staff and 20 labourers during the construction period.

Transport Bureau
October 2000

(PWSC0307/WIN13)



KEY PLAN 索引圖
SCALE 1:20 000



LEGEND: 圖例

- LIMIT OF WORKS 施工範圍
- PROPOSED CARRIAGEWAY 擬議之車行車道
- PROPOSED FOOTPATH 擬議之行人路
- RUN-IN / OUT 車輛出入通道
- RECONSTRUCTION OF EXISTING FOOTWAY 改善現有之行人路
- PROPOSED REFUGE ISLAND 擬議之安全島
- PROPOSED LAY-BY 擬議之臨時停車處
- TRAFFIC FLOW PATTERN 交通流線
- ROAD MARKING 道路標記
- SIGNAL-CONTROLLED CROSSING 號誌控制過路處
- TREES 樹木

	name	signature	date
designed	W.L. LAU (ENGINEER)	<i>[Signature]</i>	10.00
drawn	T.M. CHEUNG (T.O.)	<i>[Signature]</i>	10.00
checked	W.L. LAU (ENGINEER)	<i>[Signature]</i>	10.00
approved	T.M. CHEUNG (T.O.)	<i>[Signature]</i>	10/2000
Senior Engineer / 高級技師			
contract no.	HY / 2000 / 17		
file no.	HH CW 724TH / F		
project no.	724TH		
contract	ROAD WORKS IN CHAI WAN RECLAMATION AREA 柴灣填海區道路工程		
drawing title	SITE PLAN 地盤平面圖		
drawing no.	HH10076		
scale	1:2500		
office	HONG KONG REGIONAL OFFICE		

HIGHWAYS DEPARTMENT