

# THE HONG KONG HOUSING AUTHORITY

# Memorandum for the Building Committee

Proposed Revised Master Layout Plan and Project Development Budget for Redevelopment of Kwai Chung Estate Phases 3 & 4

### **PURPOSE**

To seek Members' endorsement to the proposed revised Master Layout Plan and Project Development Budget for Redevelopment of Kwai Chung Estate Phases 3 & 4.

### **BACKGROUND**

- 2. Kwai Chung Estate was constructed in the early sixties and is earmarked for redevelopment in the Comprehensive Redevelopment Programme.
- 3. Past events relevant to the project are as follows –

	Date	Events
(a)	12 November 1992	Planning Brief for the whole Redevelopment approved by the then Development Progress Committee.
(b)	18 February 1993	Client Brief and Concept Plan (for Phases 1 to 6) and Project Estimate (for Phases 1 and 2) approved by the Building Committee (BC) (Paper No. BC 22/93 refers).
(c)	23 December 1998	Proposed amendment to the Planning Brief approved by Tsuen Wan, Kwai Tsing & Sham Shui Po District Planning Conference (DipCon Paper No. 7/98 refers).

(d)	14 January 1999	The Neighbourhood Community Centre (NCC) Site in Phase 8 agreed to be included into the Public Housing Development Programme (PHDP) by Strategic Planning Committee (Paper No. SPC 6/99 refers).
(e)	29 April 1999	Revised Client Brief for Phases 2 and 7, revised Concept Plan for Phases 2 to 8 approved by BC (Paper No. BC 75/99 refers).
(f)	22 September 1999	Proposed Development Parameters, Project Development Costs Ceiling for Redevelopment of Kwai Chung Estate Phases 3 - 5 approved by SPC (Paper No. SPC 31/99)
(g)	23 September 1999	Proposed Master Layout Plan and Project Development Budget for Redevelopment of Kwai Chung Estate Phases 3 & 4 approved by BC (Paper No. BC 156/99 refers)
(h)	2 March 2000	Proposed revised housing type for Phase 5 (from HOS to PRH) and respective development parameters and development cost ceilings for the redevelopment of Kwai Chung Phases 3, 4 and 5 approved by SPC (Paper No. SPC 10/2000 refers).
(i)	23 March 2000	BC approved the conversion of 4 nos. of blocks in Phase 5's development from Rental (PRH) to Buy or Rent (BRO) with provision of air-conditioning as noise mitigation measures (Paper No. BC 215/99 refers)

## PROPOSED AMENDMENTS

- 4. Due to the changes in Phase 5 from HOS to PRH and some minor changes requested by Social Welfare Department, the following proposed amendments to Phases 3 & 4 are required
  - (a) Reduction of 433 nos. private car parking and 2 nos.of light goods vehicles parking (LGV) in Phases 3 & 4 induced by the change of Phase 5 from HOS to PRH;

- (b) Relocation of LGV from lower ground to level 2 in Phase 3 to occupy those surplus carparking spaces and minimize lower ground's excavation works;
- (c) Relocation of the Residential Care Homes for the Elderly (RCHE) from the domestic block to the podium floors. Number of bed space increased from 100 to 122 as per Social Welfare Department's request;
- (d) Increase of 62 flats in the domestic block in Phase 4 made available by the relocation of the RCHE above; and
- (e) The 150-place Day Nursery in Phase 4 revised to 100-place as per Social Welfare Department's request.

### MASTER LAYOUT PLAN

- 5. The revised Master Layout Plan at part II of the Annex 1 generally complies with the amended Planning Brief approved in above paragraph 3(c).
  - 6. Phase 3 comprises -
    - (a) Two nos. 41-storey New Harmony 1 (NH1) (Option 6) and one no. 41-storey New Harmony 1 (Option 1) linked with one no. 36-storey New Harmony Annex 5 (NAX5) all above a 4-storey podium structure providing 2,742 flats;
    - (b) 4-storey podium comprises -
      - one no. Large Neighbourhood Commercial Centre (Type C) providing 6,853 m<sup>2</sup> internal floor area (IFA) including a market of 850 m<sup>2</sup> IFA;
      - four levels of carparking providing spaces for 420 private cars, 69 shoppers' cars, 112 light goods vehicles and 49 motorcycles;
      - one no. Public Transport Interchange (PTI);
      - one no. covered footbridge linking Phases 3 & 7;
      - one no. ARCS Central Plant;

- EMO and Ancillary Facilities for rental portion of the whole estate;
- (c) Road Improvement Works including realignment of Sheung Kok Street, road junction improvement works and the public access road to schools; and
- (d) Associated External works.

### 7. Phase 4 comprises –

- (a) Two nos. 41-storey New Harmony 1 (Option 6) and one no. 36-storey New Harmony Annex 5 (Option 1) all above a 2-storey podium structure providing 1,983 flats;
- (b) 2-storey podium comprises -(with same levels and joined with the two upper floors of the Phase 3 podium)
  - one level of car parking providing spaces for 255 private cars and 26 motorcycles;
  - two nos. 7-classroom kindergarten;
  - -- one 100-place Day Nursery;
  - one 122-places RCHE; and
- (c) Associated External Works.
- 8. The domestic portion of Phases 3 & 4 will provide 2,742 and 1,983 rental flats by 7/04 and 3/04 respectively. Breakdown of the flat production and flat mix is as follows --

	Flat pro	oduction/mix	VALUE TO THE PARTY OF THE PARTY
Туре	IFA (m2)	Phase 3 Nos.	Phase 4 Nos.
1P/2P	17.09	437	318
1P/2P (Annex)	17.487	385	385
2P/3P	21.693	640	640
1-B	30.06	760	320
2-B	38.83	480	320
3-B	47.280	40	_
	Total	2,742	1,983

9. The changes in the design parameters/client brief of Phases 3 & 4 are shown in italic at Annex 2 and highlighted below for easy reference –

# (a) Phase 3's changes

	Approved client Brief for Phases 3 & 4 ( paper no. BC 156/99)	
Commercial centre		IFA for shops = 6853m <sup>2</sup> (including IFA for markets = 850m <sup>2</sup> )
Car parking provisions	Private carpark = 639  Shoppers car parks = 69	Private carpark = 420 Shoppers car parks = 69
	Light goods vehicle = 114  Motor cycle = 61	Light goods vehicle =112  Motor cycle = 49
RCHE	2 nos. of 16-seater van to be	2 nos. of 16-seater van to be allowed in Phase 3

# (b) Phase 4's changes

	Approved client Brief for Phases 3 & 4 (paper no. BC 156/99)	1
Flats no.	Flat no. = 1921	Flat no.=1983
Design population	Design population=4,328	Design population=4,453
Domestic GFA	Domestic GFA=78,735m <sup>2</sup>	Domestic GFA=81,146.9m <sup>2</sup>
Non-domestic GFA	Non-domestic GFA=4,969 m <sup>2</sup>	Non-domestic GFA=5,342.9m <sup>2</sup>
Plot ratio	Plot ratio=6.22 (domestic) 6.61(non-domestic + domestic)	Plot ratio=6.54 (domestic), 6.98 (non-domestic + domestic)
Car parking provisions	Private car park =469	Private car park =255
	Motor cycle = 50	Motor cycle = 26
RCHE	100-bed to be provided at the lowest two floors of Block 10.	
Day Nursery	150-place day nursery	100-place day nursery

### PROJECT DEVELOPMENT BUDGETS

The proposed Project Development Budgets for Phases 3 & 4 are revised from \$2,089.093M and \$1,054.266M (approved vide Paper no. BC 156/99) to \$1,694.084M and \$799.597M respectively. The breakdown of the revised Project Development Budgets are given in Annex 3 and the key elements are as follows—

		Revised Develo	pment Budget	
		Phase 3(\$M)	Phase 4 (\$M)	
(a) Site Development	1. Site Formation			
Cost	2. Demolition	4.973	5.584	
	Sub-total	4.973	5.584	
(b) Construction Cost	3. Foundation	152.960	66.664	
	4. Building	1,320.459	626.137	
	5.Soft Landscape & others	4.525	1.542	
	Sub-total	1,477.944	694.343	
(c) Other Project Cost	6.Ancillary Project Expenses 29.658		13.999	
$(a + b) \times 2\%$	7. Miscellaneous cost			
	Sub-total	29.658	13.999	
(d) Project Management Cost	8. Professional services & overhead		85.671	
	9. Consultant's fee	181.509		
$(a + b + c) \times 12\%$	10. Consultant site staff			
	Sub-total	181.509	85.671	
Total Project Develop	pment Cost	1,694.084	799.597	
(a) + (b) + (c) + (d)				

### PROJECT DEVELOPMENT COSTS

11. The Project Development Cost Ceilings (PDCC) has been updated to June 2000 Cost Yardstick as per presumption Paper no. SPC62/2000 approved on 19 October 2000. The revised Project Development Costs of Phases 3 & 4 calculated using the revised Project Development Budget taking into account of the adjustment of the commonly shared items within the Project and divided by the construction floor area of the respective cost portions and the Overall Unit Costs of Construction compared with June 2000 Cost yardstick are as follows with details shown in **Annex 3**.

	Revised Develo Co	Project pment	(b) SPC's Approve Project Development Cost Ceiling (SP Paper No. 62 /2000) adjusted to sam Tender-in date (6/01 for Phase 4		external works and others)		(d) June 2000 Cost Yardstick adjusted to Tender-In- Date	
	(\$/m²	CFA)	(\$/m²	CFA)	(\$/m²	CFA)	(\$/m²	CFA)
	Phase 3	Phase 4	Phase 3	Phase 4	Phase 3	Phase 4	Phase 3	Phase 4
Domestic	8,149	8,308	8,180	8,680	6,580	6,738	6,185	6,302
Commercial	18,629	- 10-21	19,367	teell pelp dipp	17,193		16,862	
Carpark	7,945	8,704	8,493	8,705	6,509	7,267	6,061	5,911

- Estimated construction cost of the Government Non-reimbursable (GNR) items for the PTI and District Open Space in Phase 3 is revised from \$40.499M and \$17.497M to \$47.689M and \$29.550M respectively. Approval on expenditure for GNR items to be charged under Housing Authority fund will be sought separately. Estimated construction cost of the RCHE in Phase 4 is revised from \$26.5M to \$29.949M and to be charged under Lotteries Fund.
- 13. The difference between the Overall Unit Cost of Construction (excluding external works and others) and the Cost Yardsticks adjusted to Tender-in-Date is mainly attributable to the additional podium floors and transfer structure.
- 14. The revised Project Development Cost for the Domestic (PRH) cost portion can be further broken down into cost per block as follows –

	(a) Revised Project Development Cost Per block (\$M)		(b) Overall Construction Cost per block included in (a) (Excluding external works and others) (\$M)		(c) June 2000 Cost Yardstick Adjusted to Tender- In-date (\$M)	
	Phase 3	Phase 4	Phase 3	Phase 4	Phase 3	Phase 4
New Harmony 1 (option 6) 41-storey	263.357	307.436	242.641	249.359	222.188	221.946
New Harmony 1 (option 1) 41-storey	269.088	-	245.059		222.306	· · ·
New Harmony Annex 5 (option 1) 36-storey	107.562	111.499	102.931	90.436	100.047	99.946

15. The difference between the Overall Cost of Construction per block (excluding external works and others) and the Cost Yardsticks adjusted to Tender-in-Date is mainly attributable to the additional floors of podium and transfer structure.

### **AVAILABILITY OF FUNDS**

16. The estimated yearly expenditure for Phases 3 & 4 based on the Site Development and Construction Cost portion of the proposed Project Development Budget are shown below and would be included in the next capital budget of the Authority –

		Estimated Expenditure (\$M)					
		1999/2000	2000/2001	Post 31.3.2001	Total		
Estimate	Phase 3	4.973	50.309	1,427.635	1,482.917		
Allowed in FC 2/2000		9.620	212.564	1,636.035	1,858.219		
Estimate	Phase 4	5.584	19.999	674.344	699.927		
Allowed in FC 2/2000		5,376	119.859	808.334	933.569		

Provision for Phases 3 and 4 in the Housing Authority's Capital Budget for the year 2000/01 is \$212.564M and \$119.859M respectively and is adequate to meet the estimated expenditure of \$50.309M (Phase 3) and \$19.999 M (Phase 4). Funding for the subsequent years will be adjusted in the next Capital Budget review.

### **DEVELOPMENT PROGRAMME**

18. Details of the development programme (at Annex 4) are as follows -

			Phase 3	Phase 4
(a)	Master Layout and Project Development Budget	Endorsement by PDRC	08/99	08/99
(b)	Project Development Cost Ceiling	Approval by SPC	09/99	09/99
<u> </u>		Approved by SPC by presumption paper on the updated cost ceiling	09/00	09/00
(c)	Master Layout and Project Development Budget	Approval by BC	09/99	09/99
(d)	Detailed Design	Approval by DDRP	3/00 (stage 1) 8/00(stage 2) 10/00(stage 3)	3/00 (stage 1) 8/00(stage 2) 10/00(stage 3)
(e)	Demolition	Commencement Completion	04/99 9/99	06/99 11/99
<b>(f)</b>	Piling	Commencement	08/00	08/00
		Completion (i) Road work	10/01	07/01(section 1) 11/01(section 2)
		(stage 1) (stage 2)	05/01 01/02	n in
(g)	Building	Commencement	10/01	07/01
		Completion	09/04	02/04
		(i) PTI	05/03	
		(ii) Commercial Centre/Market	09/03	
		(iii) Carpark	09/03	09/03

<sup>19.</sup> The completion of PTI by May 2003 coincides with the completion of other Phases of Redevelopment.

#### RECOMMENDATION

The proposed revised Master Layout Plan, Project Development Budget of \$1,694.084M and \$799.597M for Redevelopment of Kwai Chung Estate Phases 3 & 4 respectively as described above and in the Annexes to this paper be approved.

### **PRESUMPTION**

21. It is not thought that Members will object to the recommendation at paragraph 20 above. If no objection or request for discussion is received by noon on 30 January 2001, Members' approval will be presumed and appropriate action taken.

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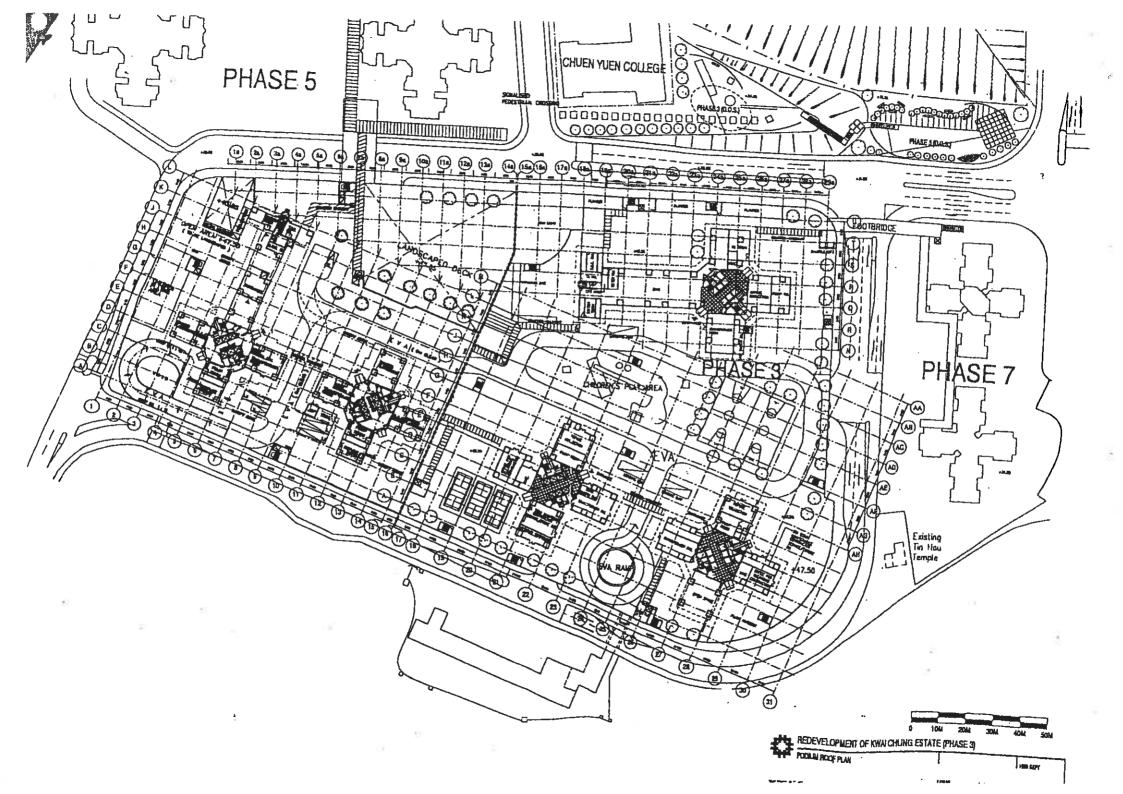
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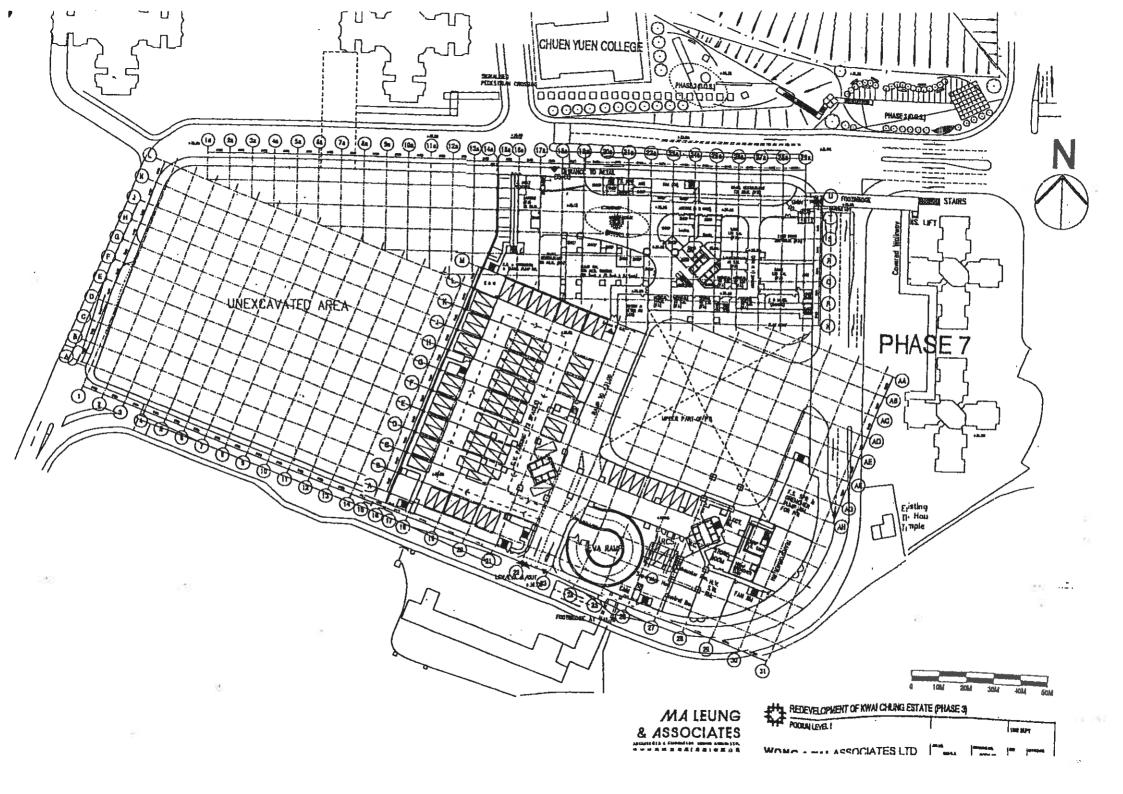
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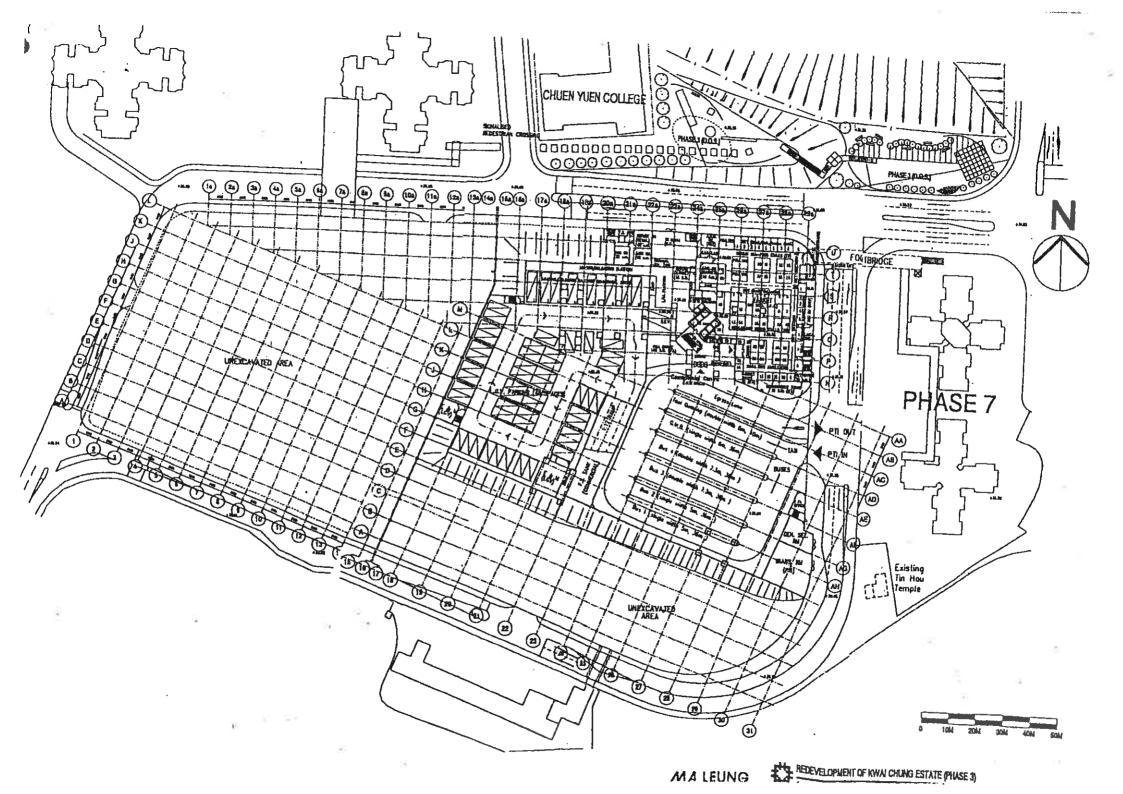
## PART I

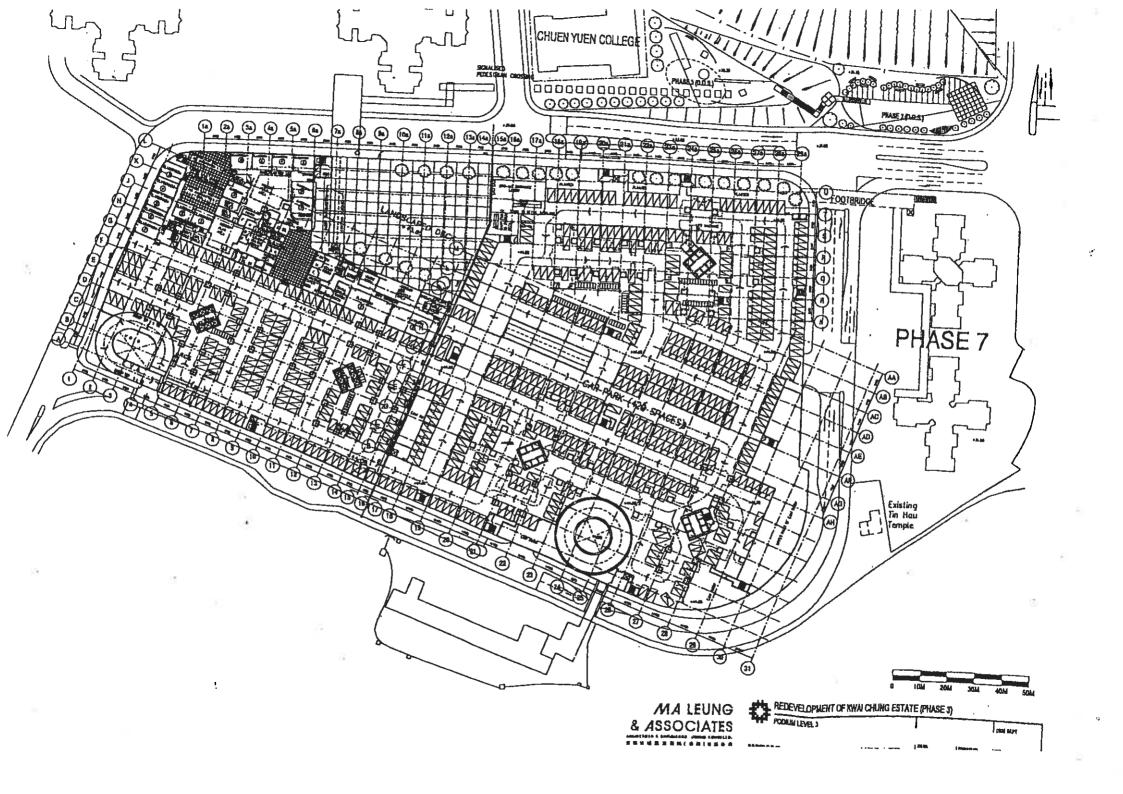
# Approved master layout plans in BC paper no. BC156/99

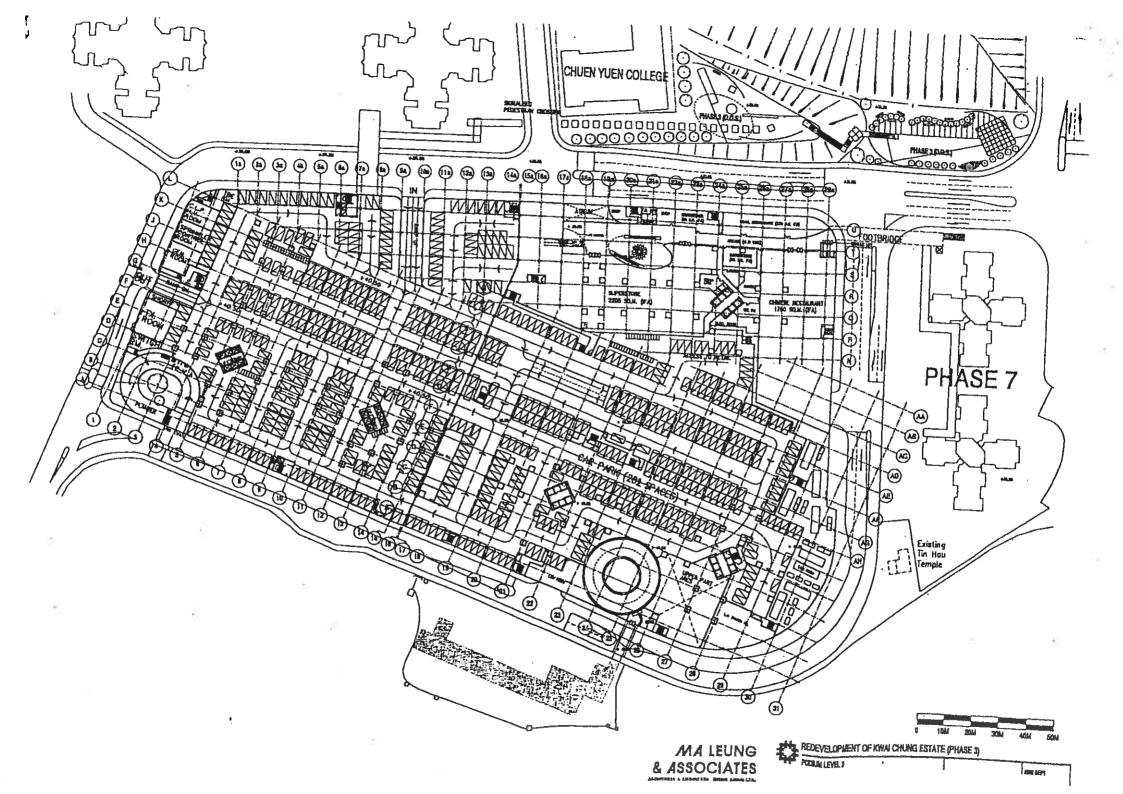
Title	Descripe
	<u>Drawing nos.</u>
Ground Floor Plan	PDR2-01
Podium Level 1	PDR2-02
Podium Level 2	PDR2-03
Podium Level 3	PDR2-04
Podium roof plan	PDR2-05







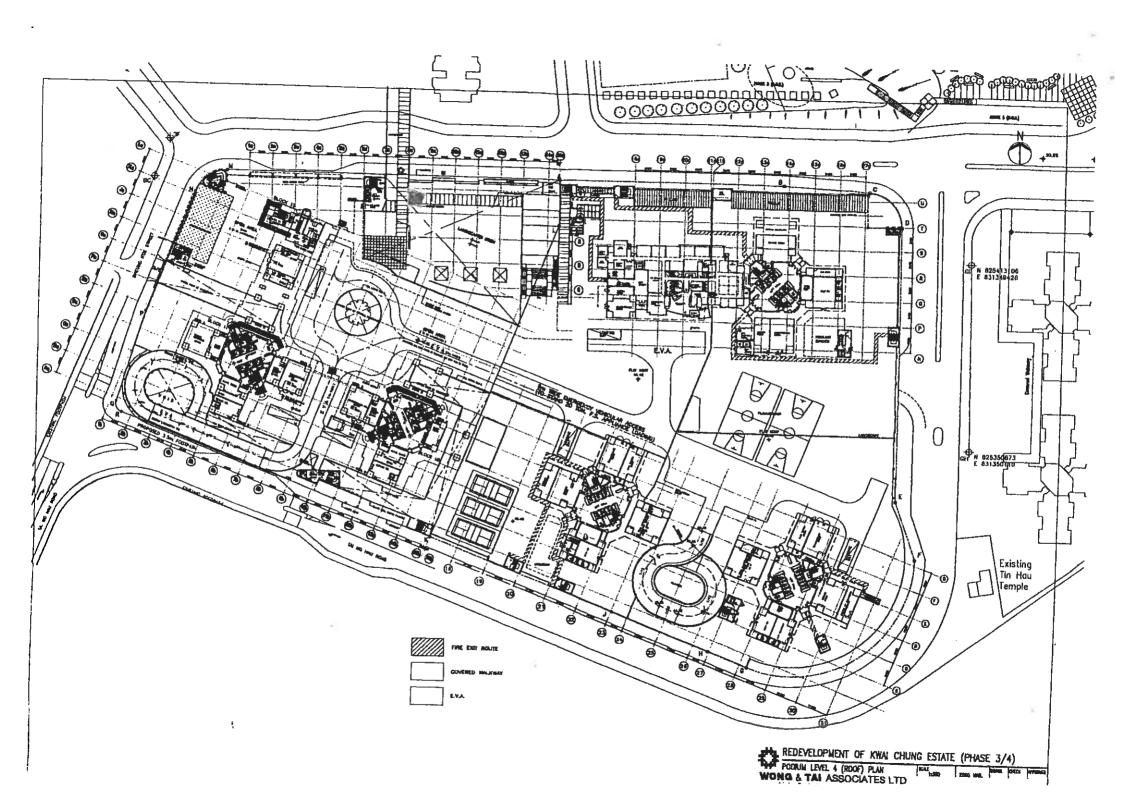


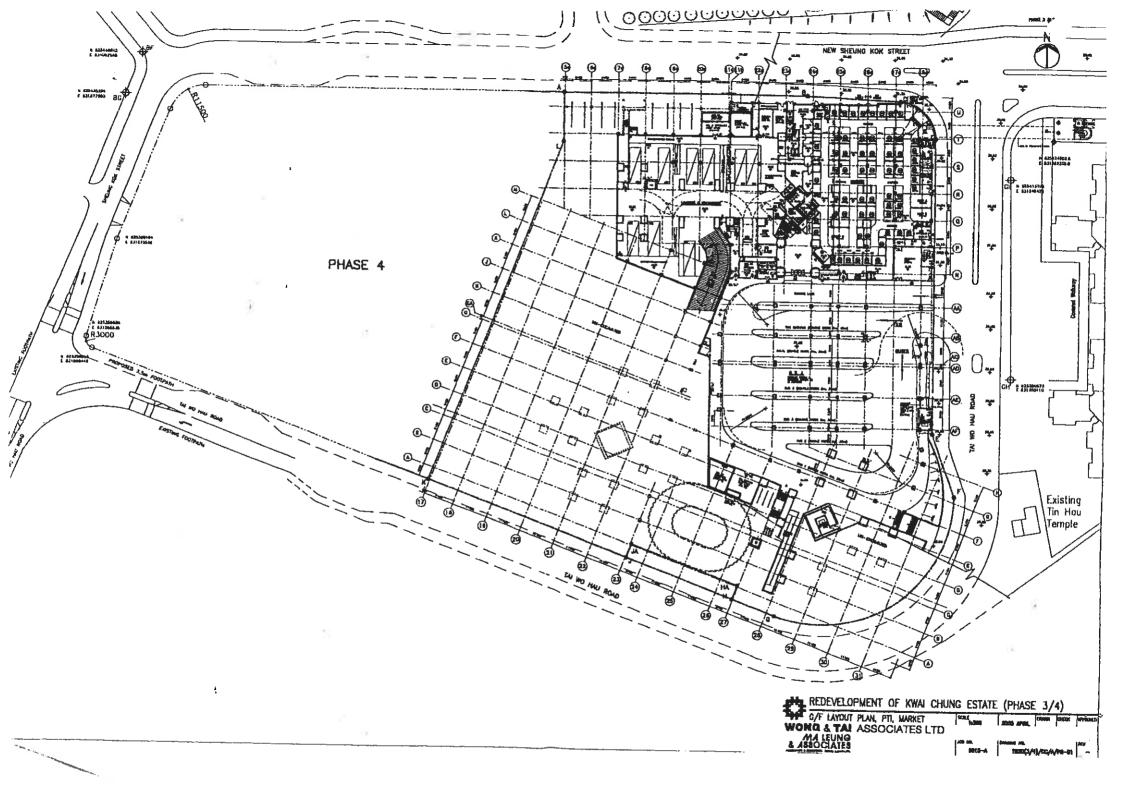


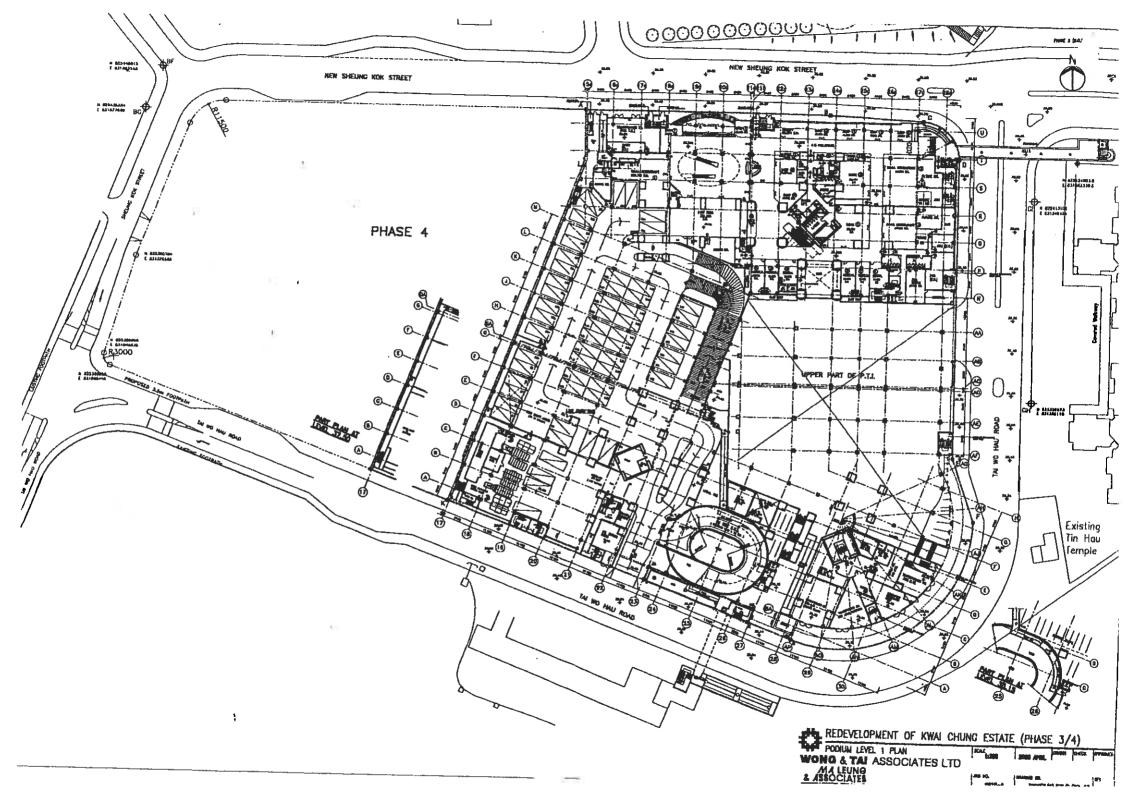
## PART II

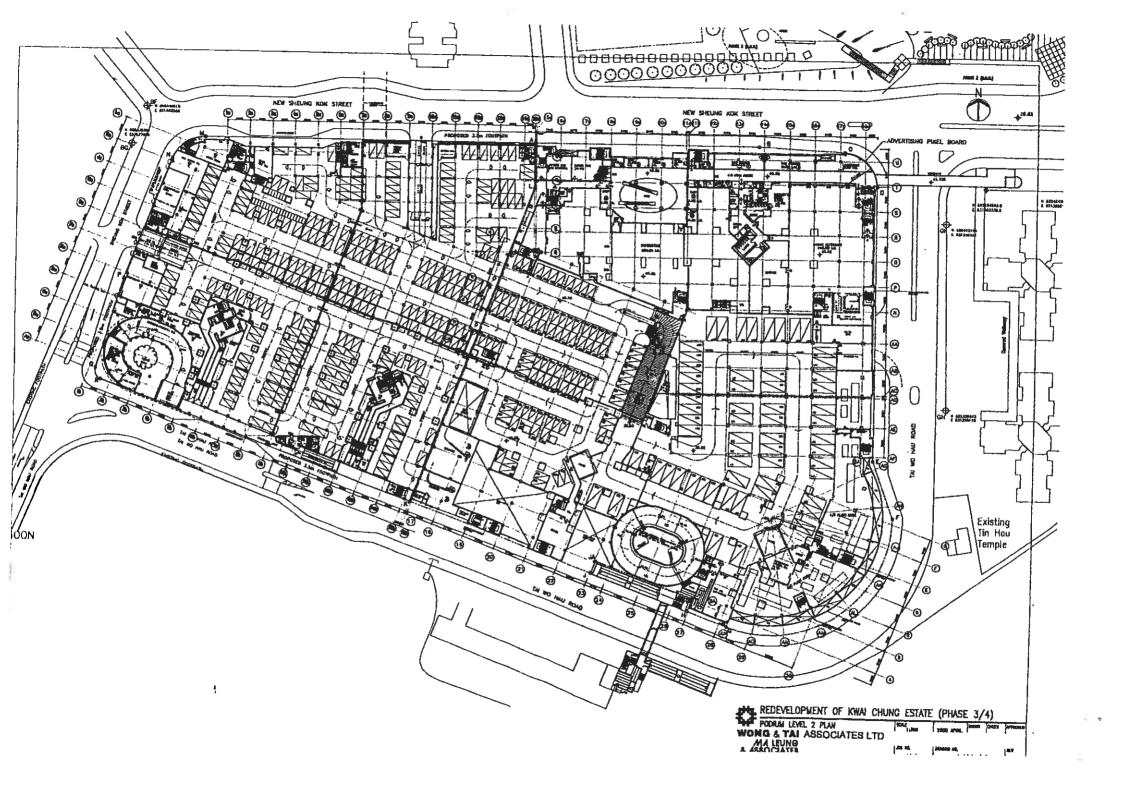
# Revised master layout plans

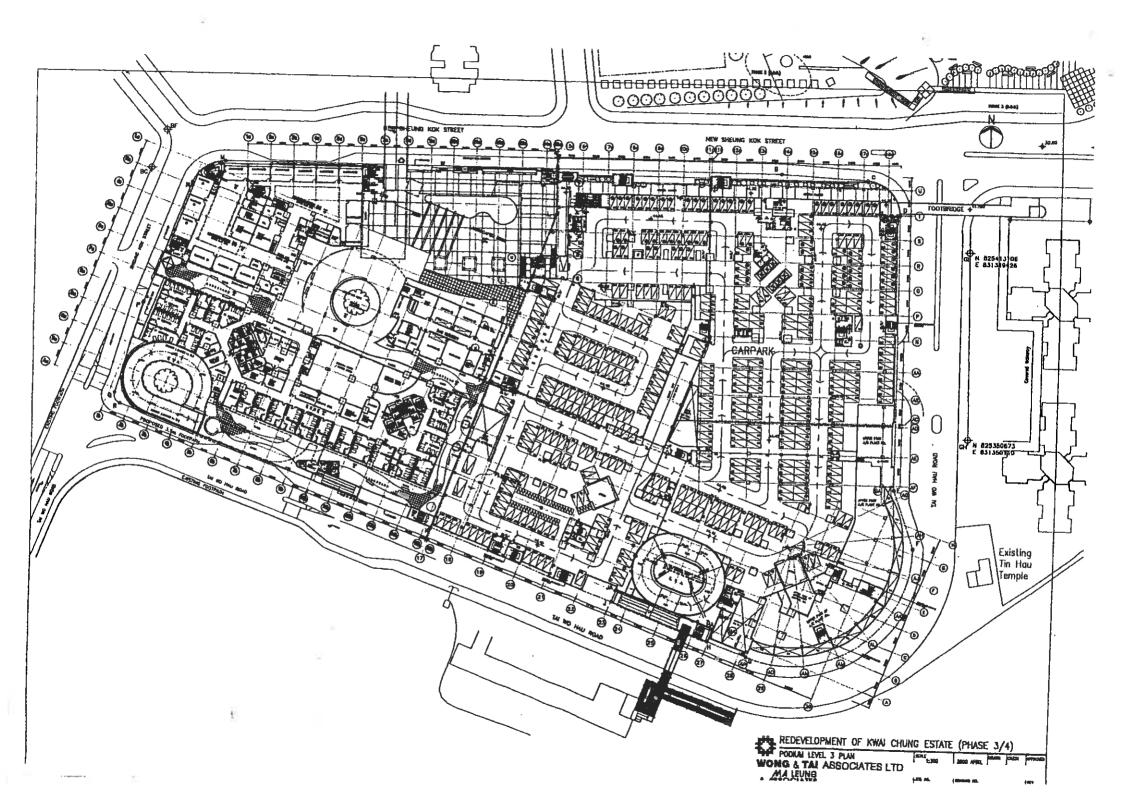
<u>Title</u>	Drawing nos.
G/F Layout Plan, PTI, Market	TW(3/4)CC/A/PR-01
Podium Level 1 Plan	TW(3/4)CC/A/PR-02
Podium Level 2 Plan	TW(3/4)CC/A/PR-03
Podium Level 3 Plan	TW(3/4)CC/A/PR-04
Podium Level 4 (Roof) plan	TW(3/4)CC/A/PR-05











Revised Development parameters for Redevelopment of Kwai Chung Estate Phases 3 & 4 as compared with BC paper no. BC 156/99

# A. Introduction

- A.1 Background
- (1) Kwai Chung Estate was constructed in the early sixties and is ear marked for redevelopment in the Comprehensive Redevelopment Programme.
- Planning Brief for the whole redevelopment was approved by the Committee on Planning, Land and Development (CPLD) (the then Development Progress Committee) on 12 November 1992. Amendment to the approved Planning Brief was approved by Tsuen Wan, Kwai Tsing & Sham Shui Po District Planning Conference on 23 December 1998.
- (3) Client Brief and Concept Plan were endorsed by the Department's Project Design Review Committee (PDRC) on 28 January 1993. Client Brief and Concept Plan (for Phases 1 to 6) and Project Estimate (for Phases 1 and 2) were subsequently approved by the Building Committee (BC) on 18 February 1993.
- (4) Revised Development Parameters, Conceptual Layout, and Project Estimate (for Phases 3, 4 and 5) were endorsed by PDRC on 20 August 1999.
- (5) Proposed Master Layout, Project Development Budget and Project Development Costs (for Phase 3) were endorsed by PDRC on 20 August 1999.
- A.2 Objective
- To develop the Master Layout for Phase 3 to meet the endorsed Development Parameters and detailed client's requirement on the provisions of Commercial Centre, Market, PTI and Carpark in Phase 3.

		Approved Planning Brief (DipCon Paper No. 7/98)	Approved B	C 156/99 Paper				Amendments 6/99 Paper
B.	Site A	Analysis and Evaluation						
	<b>B.1</b>	Site Particulars						
	(1)	Location Kwai Chung Estate is located in Upper Kwai Chung, between the MTR station of Tai Wo Hau and Kwai Hing. It is located up on the hill and is within walking distance of Tai Wo Hau and Kwai Hing Estates. Kwai Chung Estate is bounded by Castle Peak Road in the north and is segregated by Tai Wo Hau Road and Sheung Kok Street.	As per Development Parar	neters and Client Brief.				
	(2)	Site Area						
		(a) Gross Site Area: 12.58 ha (b) Net Site Area: 10.49 ha (c) Net Estate Area: 8.69 ha	Gross Site Area (ha)	Net Estate Net Sit Area Area for DR for PR (ha) (ha)	,	Gross Site Aera (ha)	Net Estate Area For DR (ha)	Net Site Area for DR (ha)
			Phase 3 3.2423 Phase 4 1.2657			3 3.2423 4 1.2391	1.9460 <i>1.2391</i>	1.9460 1.2391
	(3)	Site Topography  No specific requirement.	No specific requirement.					

	Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
(4)	Site Access		
	No specific requirement.	The public transport vehicular access is via Tai Wo Hau Road. The emergency vehicular access is elevated by means of internal ramp up to podium deck at +47.50 mPD through the goods delivery entrance located at Tai Wo Hau Road. Normal vehicular access is through the Sheung Kok Street ingress / egress provided in Phase 3.No specific requirement.	
B.2	Infrastructure		
(1)	Water Supply		
(2)	Watermain diversion / reprovision scheme is anticipated and is required to submit for WSD's consideration in the detailed design stage.  Drainage and Sewage	WSD advised that the existing fresh water and salt water supply system would not be adequate to meet the service demands generated by the proposed redevelopment. Main laying works along Tai Wo Hau Road are required before water supply can be provided to those phases scheduled to be completed in November 2003 and after. WSD agreed to carry out the required extension of the existing water supply system. WSD had been further requested to complete the required works timely to suit the whole redevelopment programme. No specific requirement.	
	Both DSD and EPD advised no adverse impact	DSD confirmed that storm water and sewers are	
	from the redevelopment on drainage and sewage system.	available for the drainage connections in the vicinity of Kwai Chung Estate. EPD confirmed that the trunk sewage system has adequate capacity to serve the captioned redevelopment.	

	Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC Paper 156.99 Paper	Proposed Amendments to BC 156/99 Paper
(3)	Electricity, Telephone & Gas  No adverse comment received from utility companies.  Traffic Improvement	No adverse comments are received from utility companies for the redevelopment. As per Planning Brief.	
	Traffic Impact Assessment (TIA) has been carried out and circulated to concerned departments. Appropriate Traffic improvement measures will be identified with TD.	The realigned Sheung Kok Street will form a new road through the 'centre' of the redevelopment for providing vehicular access to domestic blocks of Phase 3, 4 and Phase 5.	
B.3	Environmental Mitigation  Environmental Assessment Study (EAS) has been carried out and circulated to concerned departments. EPD will be consulted on appropriate noise mitigation measures.	No additional noise mitigation is required due to adequate screening by podium deck.  (For details refer to the report 'Traffic Noise Impact Assessment for the Proposed Redevelopment of Kwai Chung Estate Phase 3; issue no. 1 dated July 1999 prepared by environmental sub-consultant, Allied Environmental Consultants Ltd)	
		A minimum of 10m set back from the kerb line of Tai Wo Hau Road has been allowed in accordance with HKPSG with respect to air quality requirement.	

	Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC Paper 156/99 Paper	Proposed Amendments to BC 156/99 Paper
B.4	Land Matters		
(1)	Zoning		
	The existing zoning is "Residential (group A)" (' $R(A)$ ').	As per Development Parameters and Client Brief.	
(2)	Land Status		
	The existing land status in Public Rental Estate.	Liaison is being made with DLO/Kwai Tsing to include additional works area outside existing vesting order boundary into the redevelopment boundary:	
	Ŷ.	(a) the 2 existing carparks along Tai Wo Hau Road. (b) the Sheung Kok Road	
B.5	Site Constraints	۲	
(1)	MTR Alignment	a:	
	The estate is affected by an MTR alignment linking Tai Wo Hau and Kwai Hing Stations. Part of the estate falls within the MTR protection boundary and designated non-building area and any construction work to be undertaken within this protection area will have to be endorsed by MTRC.	As per Development Parameters and Client Brief.	

Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
B.5 Site Constraints		
(2) Geotechnical Constraints		
The existing site is affected by a number of cut and fill slopes. A total of 6 cut and fill slopes have been categorized by the Geotechnical Engineering Office. All existing fill / cut slopes will have to be investigated in details and stabilized during site formation.	Large diameter bored pile system is recommended in this site. According to the latest site investigation, high level of rock profile is anticipated in some of the area particularly the south-western corner of the site where the circular ramp is located. In the remaining area, the rock head anticipated is ranging from 4.0 meters to 20 meters. As the rock profile is very steep, special consideration has to be made to ensure the founding level of the pile would not affect the capacity of the adjoining pile. In this connection, such foundation may have to be constructed deep into the rock if necessary. As per Planning Brief.  Percussive driving piling is not recommended due to the fact that it is impossible to install the pile effectively to the required length after taking into consideration of the minimum embedded length to overcome overturning and stability requirement. Cost of installation of such piling system by predrilling method is considered to be too high.	

Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
B.5 Site Constraints		
(2) Geotechnical Constraints	Simple footings on rock are considered feasible under the circular ramp area due to the high level of rock profile at 1.5 metres. To eliminate the potential differential settlement between two different foundation systems, expansion joint may have to be installed.  Structural Consideration	
Ť	The structural system adopted for the commercial and carpark floors will be columns and beams based on an 8.1m grid. Due to the unique layout of the PTI however a modified grid pattern will be used to maximize its efficiency. Transfer structures will be adopted between ground and first floor levels at each of the domestic blocks. The domestic blocks will be constructed with cross walls and use pre-cast facades along with optional pre-cast floor slabs.	

Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
B.5 Site Constraints		
(2) Geotechnical Constraints	Loading Provision for Flat Roof and Podium Deck	
	Commercial and Carpark Podium shall be designed to the Buildings Regulation according to the proposed usage. Provision of soil load (500mm thick) shall be provided at the landscaped and podium deck at level +47.50 mPD respectively.	
	Main Towers for Block 6, 7 and 8.	
	New Harmony 1 (Option 6) shall be provided at Blocks 6 and 7 while New Harmony 1 (Option 1) plus Annex 5 (Option 1) shall be provided at Block 8. To facilitate the car park arrangement the towers will be transferred into simple columns above podium floor level (level +47.50 mPD) through a 2.7 metre thick transfer plate. Special design shall be carried out, as standard transfer plate issued by HKHA cannot be adopted. Minimum of 4 columns at each wing shall be provided while the central core shall be arranged down to the foundation level. Minimum dimension for the transfer columns shall be 2.4 m x 2.4 m following the 8.1 m c/c Grid at car park levels. A modified column grid varying	
	from 8.1 m to 11.1 m is adopted in the PTI and goods delivery areas to accommodate the larger vehicles at levels +30.00 and +31.00. These columns are carried up to the	
	podium deck to avoid additional structural transfer costs.	

ļ 		Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
C.	Acco	mmodation and Facilities		
	<b>C.1</b>	Type of Public Housing		
		Phase 1 Rental (Completed)  Phase 2 - in accordance with the Development Parameters and Client Brief and as follows: -	Types of public housing to be provided are	Types of public housing to be provided are
		Phase 3 Rental/Commercial/PTI	Phase 3 Rental	Phase 3 Rental
		Phase 4 Rental Phase 5 Rental & School	Phase 7 HOS	Phase 7 HOS
		Phase 5 Rental & School Phase 6 HOS	Phase 4 Rental Phase 5 HOS	Phase 4 Rental
		Phase 7 HOS	Filase 3 HOS	Phase 5 Rental + BRO
		Phase 8 Rental		
		*		
	C.2	Flat Production and Design Population		
	(1)	The total flat production is 11,203 (6,923 Rental & 4,280 HOS) and the total design population is 35,800.		
		Final flat number may deviate up to $\pm 10\%$ subject to pro-rata adjustments to ancillary facilities in accordance with HKPSG.		
		The Rental/HOS mix will be reviewed with flexibility to cater for changes in the supply and demand of rental and HOS flats. The split will be at the discretion of Housing Department		
		subject to pro-rata adjustments to ancillary facilities in accordance with HKPSG.		

	Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
(2)	The flat population for each phase are as follows: -  Flat Nos.	The flat production and design population are as follows and in accordance with the Development Parameters and Client Brief:  Flat Nos. Design Population	The proposed flat production and design population are as follows and in accordance with the Development Parameters and Client Brief:  Flat Nos. Design Population
	Phase 1 2,276 Phase 2 - Phase 3 1,926 Phase 4 1,598 Phase 5 799 Phase 6 3,480 Phase 7 800 Phase 8 324	Phase 3 2,742 6,876 Phase 4 1,921 4,328	Phase 3 2,742 6,876  Phase 4 1,983 4,453
C.3	Total 11,203 Gross Floor Area	For Phase 3 Dom: 118,598m <sup>2</sup> Non Dom: 15,200 m <sup>2</sup> .	For Phase 3 Dom: 118,598 m <sup>2</sup> Non Dom: 13,800 m <sup>2</sup>
	The total gross floor area is 659,626 m <sup>2</sup> subject to detailed design.	For Phase 4 Dom: 78,735 m <sup>2</sup> Non Dom: 4,969 m <sup>2</sup>	For Phase 4 Dom: 81,146.9 m <sup>2</sup> Non Dom: 3,154.6 m <sup>2</sup> (RCHE)  2,069 m <sup>2</sup> (Kindergarten)  771.8 m <sup>2</sup> (Day Nursery)
C.4	Gross Floor Space  The total gross floor area is 699,259 m² subject to detailed design.	For Phase 3 141,613 m <sup>2</sup> For Phase 4 106,069 m <sup>2</sup>	For Phase 3 141,613 m <sup>2</sup> For Phase 4 105,582 m <sup>2</sup>
C.5	Development Ratio  The overall development ratio is 8.	For Phase 3 7.28 For Phase 4 8.38	For Phase 3 7.28 For Phase 4 8.521
C.6	Plot Ratio		
	The domestic plot ratio area as follows:- (a) Phase 6 (HOS) 5 (b) Phase 7 (HOS) 7.9	(For domestic) 6.09 (phase 3) 6.22 (Phase 4) (For domestic & 6.88 (phase 3) 6.61 (Phase 4) non-domestic)	For Phase 4 6.35 (For domestic) 7.03 (For domestic & non-domestic)

PART I EVALUATION OF MASTER LAYOUT

		ed Planning Bri n Paper No. 7/9		Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
C.7 Facilities	Open Space HKPSG Standard	and Recreation Theoretical Provision	al Facilities Proposed / Actual Provision		
Local Open Space	1 ha/10,000 persons	3.58 ha	3.6 ha	As per Development Parameters and Client Brief.	
Badminton Court	1/8,000 persons	5	5	3 nos. to be provided in Phase 3.	
Basketball Court	1/10,000 persons	4	4	2 nos. to be provided in Phase 3.	
Volleybail Court	1/20,000 persons (not requ	ired for public h	ousing estates)	As per Development Parameters and Client Brief.	
Table Tennis Table	2/15,000 persons	6	6	As per Development Parameters and Client Brief.	
Tennis Court	2/30,000 persons (not requ	ired for public h	ousing estates)	As per Planning Brief.	
5-a-side or 7-a-side Soccer	1/30,000 persons (not requ	- ired for public ho	- pusing estates)	As per Planning Brief.	
Jogging Track	500 m - 1,000 /30,000	) m -	•	As per Planning Brief.	
Children's Playground	(not requi 400 m²/5,000 persons	ired for public ho	using estates)  2,870 m <sup>2</sup>	As per Planning Brief.  The proposed area of Children's Play Area is 550 m <sup>2</sup> .  (@400 m <sup>2</sup> per 5000 persons).	

Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	Proposed Amendment to BC 156/99 Paper	s
C.8 Commercial Facilities  (1) Accommodation	The total IFA of commercial facilities (to be provided		Total: 61 stalls + 2 market shops (Total IFA 850 m²)
The total IFA of commercial facilities (to		Chinese Restaurant	1415 m²
provided in Phase 3) is 9,990 m <sup>2</sup> subject to detailed design.	Internal Floor Area (IFA)	Fast Food	337 m²
	Market Stalls 823 m <sup>2</sup> Single Operator Market : 823 m <sup>2</sup> (with a few market shops & 66 stalls)	Small / Specialty Restaurant	241 m² 262 m² 242m²
N 	Restaurants / 2,860 m <sup>2</sup> Fast Food Shops	Superstore	1857 m²
	Chinese Restaurant : 1 x 1600 m <sup>2</sup> Fast Food Shop : 1 x 300 m <sup>2</sup>	Convenience Store	98m²
	Small Restaurant	Bakery	67 m²
	Shops 3,197 m <sup>2</sup>	Bank	133 m² 113 m²
	Superstore : 1 x 2,00 m <sup>2</sup> Convenience Store : 1 x 99 m <sup>2</sup> (170 m <sup>2</sup> in Phase 1)	Laundromat	67 m²
	Bakery : 1 x 90 m <sup>2</sup> Hairdresser : 2 x 80 m <sup>2</sup>	Hairdresser	85 m² 85 m²
	Laundromat : 1 x 60 m <sup>2</sup> Bank : 2 x 120 m <sup>2</sup>	General Shops s/t	587 m <sup>2</sup>
	General Shops : 397 m <sup>2</sup> Medical Clinic : 4 x 40 m <sup>2</sup>	Medical	46m², 43 m², 37 m² & 44 m²
	Dental Clinic : 2 x 40 m <sup>2</sup>	Dental	57 m² & 56 m²
	Total <u>6860m²</u> Actual (7,358 m²)		6853 m²

Approved Planning Brief	Approved BC 156/99 Paper	Proposed Amendments
11pproved 2 mining - 1 min	I	<u> </u>

PARII		TUN OF MASTER LA	1001	
(DipCon Paper No. 7/98)				to BC 156/99 Paper
C.8	Commercial Facilit	<u>ties</u>		
			Efficiency ratio of proposed Master Layout for the shopping centre is	
			A GFA-B	A orA GFA
			7358 m <sup>2</sup> 14620 - 2820 m <sup>2</sup>	<u>6953</u> <u>6953</u> 13630 - 2830 10800
C.9	Education Facilities		= 62.4 %	= 64.4%
Facilities	HKPSG Theoret Standard Provisi			
Kinder- garten	1 bi-sessional classroom per 67 persons aged 3-5	20 class-rooms (one with 6 classroom & two with 7 classrooms)	As per Development Parameters and Client Brief.	
Primary School	1 whole day classroom per 32.5 persons aged 6-11	30 classroom	As per Development Parameters and Client Brief.	

		ed Planning I n Paper No. 7		Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
Facilities Secondary School	Standard  1 whole day classroom per 45	Theoretical Provision	Proposed / Actual Provision - (to be considered on a territorial wide basis)	As per Development Parameters and Client Brief.	
C.10 Facilities	persons aged 12-18  Social Welf  HKPSG Standard	are and Comm Theoretical Provision	nunity Facilities  Proposed / Actual Provision		
Community Hall	No set standard	*	-	As per Development Parameters and Client Brief.	
Nursery	100 places / 20,000 persons	179 places	150	150-place to be provided in Phase 4	100-place to be provided in Phase 4
Day Care	38	*:	-	As per Development Parameters and Client Brief.	
Children / Youth Centre with study / reading room	1/20,000 - 30,000 persons	1	1	As per Development Parameters and Client Brief.	

	Approved (DipCon	Planning   Paper No.	Brief 7/98)	Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
C.10 Social centre for the Elderly	1/2,000 elder person aged 65 & above	e and Comm	nunity Facilities	As per Development Parameters and Client Brief.	
Medical Clinic	No set standard	3	4	As per Development Parameters and Client Brief.	
Dental Clinic	No set standard	3	2	As per Development Parameters and Client Brief.	
Post Office	1/30,000 persons or more	Î «	1	As per Development Parameters and Client Brief.	
Residential Care Home for the Elderly	No set standard	ě	1 (to be provided in Phase 8)	One 100-bed to be provided at the lowest 2 domestic levels of Block 10 in Phase 4.	One 122-bed to be provided in level 1 of podium level in Phase 4
Sheltered Housing for the Elderly	No set standard	( <b>*</b> )	I	As per Development Parameters and Client Brief. As per Development Parameters and Client Brief. As per Development Parameters and Client Brief.	

Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper
C.11 Management Accommodation	
No specific requirement.	As per Development Parameters and Client Brief.
	1 no. of MAC office to be provided at each G/F of Blocks 6, 7 and 8; at IFA of 20 m <sup>2</sup> each.
	46.5 m² office to be provided at G/F of Block 7.
	40 m² workshop to be provided at G/F of Block 7.
	100 m² depot to be provided at G/F of Block 6.
2	100 m² depot to be provided at G/F of Block 7.
	200 m² to be provided on podium roof.
	As per Development Parameters and Client Brief.

Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	Proposed Amendments			
C.12 Other Facilities		to BC 156/99 Paper			
No specific requirement.	Routings for the chutes and duct system will be allowed to link up Blocks 6, 7 and 8 of podium to the ARCS plant at Level 1, +35.50 mPD Connection of ducts from Phases 4, 5 and 7 will also be provided.				
	As per Development Parameters and Client Brief.				
	Independent access will be allowed for Junk Point and Temporary Refuse Storage Area at podium roof via the drum ramp.				
	the drum ramp.				

PART I EVALUATION OF MASTER LAYOUT

		ed Planning Br Paper No. 7/9		Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
C.13	Car Parking	Provisions			
(1)	Private Cars				
	HKPSG Standard	Theoretical Provision	Proposed / Actual Provision	As per Development Parameters and Client Brief.	
Rental	1/13 - 16 flats	417 - 514	385 - 474	639 private spaces (rental/BRO/HOS) to be provided in Phase 3 carpark including 69 shoppers carpark	489 private spaces (rental/BRO/HOS) to be provided in Phase 3 carpark including 69 shoppers carpark
HOS	1/5 - 8	535 - 856	535 - 856	469 private spaces (rental/BRO/HOS) to be provided in Phase 4 carpark	255 private spaces (rental/BRO/HOS) to be provided in Phase 4 carpark
Shoppers	1/200 - 300 m <sup>2</sup> Commercial GFA (HD's practice: 1/150 m <sup>2</sup> GFA retail)	95	95	As per Development Parameters and Client Brief.	
(2)	Motorcycles				
	HKPSG Standard	Theoretical Provision	Proposed / Actual Provision	61 spaces are provided in Phase 3 car park.	42 spaces are provided in Phase 3 car park.
Rental HOS	\$ ·	÷	39 48 54 86	50 spaces are provided in Phase 3 car park	25 spaces are provided in Phase 4 car park
1100	(10% of total p	rivate car parking			

PART I EVALUATION OF MASTER LAYOUT

	Approved Planning Brief (DipCon Paper No. 7/98)		Approved BC 156/99 Paper	Proposed Amendments to BC 156/99 Paper
C.13	Car Parking Provisions			
(3)	Light Goods Vehicles			
	HKPSG Theoretical Standard Provision	Proposed / Actual Provision	114 LGV spaces (rental) provided in Phase 3.	
Rental HOS	1/80 flats 77 1/200 flats 22	77 22	4 LGV spaces for Phase 7 (HOS) provided in Phase 3.	112 LGV spaces (rental / BRO / HOS)
	(in mixed rental / HOS estate)			to be provided in Phase 3 car park
(4)	Residential Loading / Unloading			
	HKPSG Theoretical Standard Provision	Proposed /Actual		
	1 bay at each block	Provision As per HKPSG	1 no. each for Blocks 6, 7, 8,9 and 10. As per Development Parameters and Client Brief.	
(5)	Commercial Loading / Unloading	g		
	HKPSG Theoretical Standard Provision	Proposed / Actual Provision	*	
	1/1,200 m <sup>2</sup> 12 GFA retail	12	As per Development Parameters and Client Brief.	
(6)	Parking provision for Residential Home for the Elderly (at Phase 8			
	No specific requirement.		As per Development Parameters and Client Brief.	

		ved Planning Br on Paper No. 7/9		Approved BC 156/99 Paper	
C.14	Public Trai	sport Facilities			
	HKPSG Standard	Theoretical Provision	Proposed / Actual Provision	As per Development Parameters and Client Brief.	
Bus Terminus	No set Standard	-	1		
Taxi Stand	No set Standard	*	3		
GMB Stand	No set standard	æ ÿ	1		
C.15	Pedestrian (	Circulation	=		
	To provide footbridge a Kok Street, Tong Tsui S	d adjoining areas a good pedestri cross Tai Wo Ha at grade signaliz treet and escalate terminus and the	ian linkage system, u Road and Sheung zed crossing at Woor links between the commercial centre	Covered walkways within Phase 3 site are to be provided to facilitate access between the domestic blocks of Phase 4 and 7.  Footbridges across Tai Wo Hau Road and Sheung Kok Street provided good linkage from Phases 1, 7 and Tai Wo Hau Small Household Block to Phases 3, 4 and 5.	

		Approved Planning Brief (DipCon Paper No. 7/98)	Approved BC 156/99 Paper	
D.	Desig	gn Consideration		
	D.1	Block Type, Disposition & Orientation		
		No specific requirement.	As per Development Parameters and Client Brief	
	<b>D.2</b>	Design for the Disabled		
		No specific requirement.	All buildings, open spaces and pedestrian circulation will be designed in accordance with Design Manual of barrier access to cater for the needs of the disabled.	

## REVISED PROJECT DEVELOPMENT BUDGET & COST

### PROJECT : REDEVELOPMENT OF KWAI CHUNG ESTATE

### PHPD CODE:

## Summary of Cost Apportionment of Commonly Shared Elements in Site Development and Construction Cost Budgets

	Phase 2	Phase 3	Phase 4	Phase 5	Phase 7	Phase 8	Total
Total CFA excluding PTI and CIR (m2)	-	175,068	102,943	236,294	53,332		567,637
Total CFA excluding PWP items (m2)	-	175,068	99,788	236,294	53,332		564,482
CFA of buildings/portions served by ARCS (m2)		126,637	<b>27,439</b>	235,331	53,113		502,520

COST ELEMENTS	Estimated Cost in \$,000 (Including provisions for fluctuations & contingencies)							
A Cost Items (incl. tender price inflation) expended under different phases before Cost Apportionment	Phase 2	Phase 3	Phase 4	Phase 5	Phase 7	Phase 8	(000,2)	
1 Demolition 2 Site Formation 3 Transfer Structures 4 External Works 5 Automated Refinet Collection System 6 Other Separate Contracts (incl. Softlandscape) 7 Miscellaneous (Common Circulation Area)	-	4,973 41,718 151,690 34,720 3,729	5,584 - 28,625 59,423 4,597 1,542	15,563 360,631 16,612 5,360	6,106 - 23,264 2,310 5,754		32,22 70,34: 595,00: 58,239 16,38:	
Total :-	-	236,830	99,771	398,166	37,434		772.201	

B. Construction Cost Budget (incl. tender price							
inflation) to respective Tender-in dates		İ	1	-			
			1				
1 Foundation (incl. caps)	1	- 100_56	7 68,77			}	1
2 Building (excl. building services)	1	849.32					364,5
3 Building Services		- 218,95	1		1 '		2,658,0
4 Public Transport Interchange		- 47,689	1	3 258,51	3 44,972	:	614,2
5 District Open Space		- 29,550		-	•  •		47,6
6 Temporary Open Space Carpark & Market Stall	15.21		<u> </u>	-	٠	' <b> </b>	29,5
7 Enternal Worth for Specific Businesses				1	٠		15,2
Construction Cost Budget >	15.21	1 1 2 4 2 2 2				1	1
(excl. commonly shared elements)	15,21	1 1,246,087	622,40	1,571,010	274,771		3,729,
Adjustment for Costs of Common Elements		<del>-  </del>	<del> </del>	-	<del></del>	!	
Apportioned to each Phases within the Whole		-	1	1	1	i	
Development Site					1	1	Ι.
(see Note 1 and 2))	1	1	1	1	1		1
	1	1	1		1	1	
1 Demolitica	1 -	9.939	5,844	13,415	3,028	1	l _
2 Site Formation			1	15,415	3,028	i	32,2
3 Transfer Structures	-	21,695	12,757	29,282	6,609		
4 External Works for Commonly shared elements	1 .	188_563	110,878		57,443	!	70,3
5 Automated Refuse Collection System		14,677	10,134	27,274	6,155		611,3
6 Miscellaneous (Common Circulation Area)			-	1	0,133		58,24
Total of Common Apportioned Elements:-	<del>                                     </del>	234,874	139,613	704 470			
(Phase split in %)	0.00%	1 '		324,480 42,02%	73,235		772,20
			10.047	42,027	9,48%		100,0
Total Cost Budget (incl. common elements				<del>                                     </del>			
apportioned scross all phases within the		l i		i			
Whole Development Sitz)				1			
(Item D = Item B + Item C)	1			<b>!</b>			
I Demolition	. 1	9,939	5,844	13,415	3,028		
2 Site Formation	-	-	-	,,,,	3,028		32,22
J Foundation (Incl. caps)		100_567				94	
4 Building (excl. building services)	11 []	849.323	68,772	178,434	16,965	- 1	364,73
5 Building Services		218,958	461,829	1,134,068	212,834	- 1	2,658,05
6 Transfer Structures	] []	21,695	91,803	258,513	44,972		614,246
7 Public Transport Interchange		47,689	12,757	29,282	6,609	- 1	70,343
8 District Open Space		29,350	-	•	-	1	47,689
9 External Works		188263	110,878	*	_ •	ł	29,550
10 Automated Refuse Collection System		14,677	10,134	254,509	57,443	- 1	611,393
11 Temporary Open Space Carperic & Market Stall	15,211	14,017	10,134	27,274	6,155	- 1	58,240
12 Miscelleneous (Common Circulation Area)	,	1	- [	-	-	- 1	15,211
Total Cost Budget for Financial Viability:-	15,211	1,410,961	762.017	1,395,495	348,006		
(incl. Provisions for Fluctuations & Contingencies)							4,501,690

<sup>(1)</sup> The costs of community shared items expended under each phase are identified from the Cost Budget of respective phases and the total cost apportioned across all phases of the same Development Site (in Item C above) pro-rate on CFA basis. (The figures in the Total column of Item A should be transferred to the "Total" column of Item C and then apportioned to each Phase on a pro-rate CFA basis)

<sup>(2)</sup> The total cost of ARCS is shared among the domestic portions on a pro-rate CFA basis

PHASE 1 m 147

## ANALYSIS OF SITE DEVELOPMENT & CONSTRUCTION COST SUDGETS (EXCLUDING OTHER PROJECT COSTS) (For Financial Viribility Assessment Purpose)

PROJECT : REDEVELOPMENT OF KWAI CHUNG ESTATE PHID CO

PROJECT : MALINE VEL OPMENT OF			PEPP COL									(*)		
apportuned server of change within the What Do-separated Site)	<u> </u>	PRH	606	CC	æ	WILL	COST PO	CTA CTA	UN	1 JWD	Def	WAC	CP(Ex)440	
A. Phase 2 (Buspet on, 1)		100,	-		-	-	1 3	1 100		_!	1		Co (Editor)	Tetal
CFA of Cost Postimus (m.Z)		1 .	_				""	P	=	- m-	an <sup>2</sup>	ma."		ma.
Lo Site Development Conta			4	<del></del>	<del></del>	<del>`</del>	<del>`</del>	+			<del></del>	-		1
(.) Denotition		Ţ	1		1	1	7	- , C=4 is	(2,100) -	-	<del></del>			<del></del>
1.2 Situ Formation		1	1	1	1	}	1	1	1	- 1	1	1	1	1
2.6 Comptrustion Costs		i	ſ		}	l l	1			- 1	1	İ	1	!
2,1 Formistion (Incl. pape)		-	·1	• ·		. l	.	ا	.1		1	1	1	[
2.2 Building (ind. building services) 2.3 Transfer Strassons		-	4	-	-[.	• .	-1	-1		11	•] •	·	• [	ł .
2.4 September Works		ት	i	1	1 .	1	1	1		1	٦ ٠	.  -	'	1
Li America Partico Collegeion System		-	]	1	1		1 .	-	-	ļ.	1		1	ĺ
1.6 Temp, Open Space Corpork & Markon	t Stell	ļ		'  '		·  ·	• [	1	1	-	1	1	1	ŀ
2,7 Minorthumpe (CIR)		1 .			.	.1	} .	•	-	ł	1	1	15311	13,211
Budger of Phase 2 (Budget no. 1)		1		<del> </del>	-		<del>'</del>		<del></del>	- 1 .				13,241
Projected to Date of Tanders	(A)			·l -		-	١.		.]	1	1			
(Unit Cost in terms of Mo2 CFA) :- (Fund Split % pro-rate on cost values) :-		1 -		٠ ,			.  .		]	<u>.</u>	-		15.211	15,211
		1	1 1	0.00%	4 0.000	0.005	0.000	0.00	×.		:] -		ĺ .	-
S. Phage 3 (Budget no. 16)		ai*	75.2	100		m².	a,	89	- m²	<del> </del>	·	<u> </u>	100,00%	100 003
CFA of Cost Portuge (m2)		126.617	Ι.	16,930	30,714	· .	1	"		, m²	<b>■</b> 2	m²		da.º
1.0 Site Development Costs				1	+	<del></del>		+	<u> </u>	<del>' </del>		90	<u></u>	175,06E
1.1 Demolition		7,129	1 -	962	! L720	ī	1	Cost in (						
1.2 Sits Formation		1		-		1 :	1	1 '	- 63	-	1 -	5	l i	9,939
2.0 <u>Combrandon Cont</u>		1		Į.	1		1	1 '	'l'	'  •		-	1	
2.1 Foundation (seel, engel)		72,745	٠.	9,737	17.399	١.		i		1	1			
2.2 Stalling (and, building services) 2.1 Tenumber Statutgeng		456,650	-	245,356	155,161	-			10,351	-	-	52	ĺ	100,567
2.4 Enterpol Werks		15,643	· -	2,100	1,753				137	1 :	1 1	353	l l	1.064.281
Li Antonatri Refer Collection System		136,399	-	18,257	12,623	٠,	47,629	29,530		1 [	۱ ۱	97	[	21.694
Z.6 Missuilenssus (CTI)		"""	-			•		ĺ			1 1	"		265,000
Subject of Phone 3 (Subject page 16)							•	-	-		{ · · ]	-		14,677
Projected to Deate of Tempers	(24)	203,363	•							<del> </del>				
(Und Cost in terms of Sha2 CPA) :-	4-4	7,131	-	276,412 16,307	210,656	a	47,689	29,530	12.573	-		7111	İ	
(Fund Split % pro-rate out sout values) :-		61,00%	-	18,66%	6.955 14.22%	•	9 <u>.212.</u> 3.22%		11739	<b>{</b> -		7,978		1,480,961 1,459
C. Phase 4 (Busines no. 15)		49						2.00%	0.23%	-	- 1	0.03%	1	100.00%
CFA of Cost Persons (m.l)	i		•,	•	-	on'	49.	•	mb,	m2	-			
		87,439			1,657	2,632				1.115		60		a
L.O. Stin Development Conte L.I. Deventition					<del></del>			Cost in CS	70001			- 00	<del>+</del>	102,943
1.2 Sta Formacon	- }	4,964	- 1	-	548	149	-1	•	-	179	. 1	1		ŀ
4 Combustion Com	- 1	- 1	-1	-	-1	- 1	-	-	-			1	ŀ	5,841
1.1 Foresistan (mat. capa)	- 1			- 1		- 1	I			l 1	-	- 1	- 1	-1
2.2 Bushing (tout, building previous)	- 1	38,413 437,301	-1	-1	4,451	1,756	-	-		2.100		40		
2.5 Transfer Structures	ļ	10,835	- 1		54,975 1,197	20,453	•	-	- 1	20,140		363	ł	68,772
I.4 Extense Works	- 1	94,179		- 1	10,401	326 2,833	-1	•	- 1	391	- 1	7	Į	553,632 12,756
1.5 Automated Robins Collection Systems	j	10,134	-1	-1			٠,	1	•	3.190	-	65	ĺ	110.878
2.6 Minoritaneses (CIR)	- 1	•	-	-	•		_[	_ 1			1	- 1	i	10,134
Studget of Florary 4 (Biologue pag. 15)					<del></del> إ						. •	-	- 1	o
Projected to Deat of Tendard	(G)	635,828	اه	_1	73.572	23.921	ł	7						<del></del>
Unit Cost in terms of Sink CFA) :-	- 1	7.272	7	- 1	7,619	9,848	- ]	ا-	•1	26,216	•	478	- 1	762,015
Penal Spill 76 prov-cots out cost volume);-	ĺ	83,44%	-		9.45%	1,40%	:1	- 1	-1	2,309	•	7.967	ł	7,402
							1	-1	- 1	3,6426		0.04%		100.00%

Page 1 of 1

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## ANALYSIS OF SITE DEVELOPMENT & CONSTRUCTION COST SUDGETS (EXCLUDING OTHER PROJECT COSTS) (cont'd) (For Financial Viability Assessment Purposa)

PROJECT: REDEVELOPMENT OF KWAI CHUNG ESTATE

Section in	COME

Bailest Corn (Incl. common elements						COST POS	Tional	-					
aggardamid aargai all phasse within the Whale Development Site)	PRH	HOS	cc	OF .	WEL	FILE	GN	£24	200.07	Date	WAC	CP(Ex)AMS	Total
D. Physic 5 (Hosiget ms. 4)	<b>—</b> 2	45.	m²	100°	=	da. <sup>2</sup>	m².	=2	<u>-</u> 2	- m-	-	<del> </del>	- B.
CFA of Cost Particus (m2)	235,331	<u> </u>				<u>.L</u>	·1 •	845		١.	115		. 236,294
1.0 Sin Development Contr		`	<u> </u>		,	Т.	Cast in G	1 7007		<u> </u>		<del></del> -	230,234
1.1 Demoition	13,360		• ) •	-   -	1 .	٠,	1 1	48	1 .		7		13,415
1.2 Site Formation	-	-	-	•  -		·	·  -	·  -	·I -	1 -			13,413
Life Construction Coult	[	İ			1	1					ļ	1 ,	
2.1 Formánico (mel. capa)	177,232	-	·  ·	1 -		١ ٠	·   ·	206	1 .		90		178,434
2.2 Building (fact, building survious) 2.3 Transfer Structure	1,315,316	i -	' '	٠ ا٠	} -		·  •	6,436			829	{	1,391,501
2.3 Transitir Structura 2.4 External Works	29,163		١ ١	1 -		1 .	·  •	105	-	} -	14	ĺ	29,282
2.3 Attenuityi Hefun Collection Sympa	253,472 27,274		'  '	·  ·		١ .	1 -	913		-,	124		254,509
2.6 Minorithment (CDI)	27,214	-	1	1		1	!	1 .	ł	l i			27,274
		_	'	٠,		1 .	1 .	-		-	-	i 1	
Resigns of Phase 5 (Resigns on, -4)	T	[											
Projected to Date of Tomism (D)	L316,423	٠ (	기 -	•			-	1,000		` •	1,064		1.895.496
(Unit Cost in serges of Shot CFA) >-	8,416	-	·  ·	-			1 -	9,444	-1		9.230	İ	6.022
(Fund Split % per-cein on cost values) :-	99.52%	•	٠ :	•		-	· -	0A2%	-		0.05%	1	100,00%
E. Phote 7 (BCT 45/2000) -	m² .	- T	<b>-</b> 2	D6*	=1	-	=1	46.					a.
CFA of Cost Fortions (mZ)	_] .	53,113					١.	219				İ	-
LP SNs Development Costs		<b>4</b>					Cent la (3					<del></del>	9,332
I.I Description	-	3,015					1	13	I -1	- 1	. 1	<u> </u>	
1.2 Site Francisco	-	-	i -	-	•	-	١.			- 1	- 1	ı	3,937
S Committee Comm	1 i		}	i I			1 .	ļ		- 1	- 1	- 1	• 1
2.1 Penerdaten (less), mys.)		16,896		-			! .	60	i _1	ŀ	- 1	- 1	
2.2 Building (lock, building services)	- 1	256,114					í .	1,692	] ]	- 11	۱.		14,963
2.3 Tennafer Biotectures		6,582				-	l -	27	-	- 1	- 1	- 1	257,306
2.4 Schmid Werks		57,207	-	-1	-		- 1	236		- 1	- 1	1	6,609
2.5 American Rollins Collecting System	1 -1	6,133	ł	ļ [						-1	٦.	1	37.447
1.6 Misselbannan (CDR)	-	-		-	-	•		- 1	- 1	-			4122
Sudget of Phase 7 (SCT 45/2800)	<del>                                     </del>	<del></del>				-							
Projected to Date of Tunders (II)		345,549			-			2.036		į			
Unit Cost is terms of Sin2 CFA) :-	.	6,514.			-		] ]	1.297	1	-1	-1	- 1	348,001
Fund Split % pur-rate on sest values) :-	] -/	99,4176		-	- 1			9,59%		]	- [	- 1	6.521
ZAND TOTAL -(A) → (D)	3,435,614	345,569	276.412	284,228	25.921						1		100,00%
Description Continues of Shall CFA):-	7,623	6514	16,307	7.115	2,521	47,649 9,283	29,554	22,617	26,216	- [	1,260	15,221	4583.600
Front Solit 76 gra-rate on cost values) :-	76,1894	7,49%	6,64%	CHA.	1,91%	1,06%		10,421	4,000	-[	1,520	-	7,931
	12074	(~) 70			-247	Paris 20	9.66%	6.58%	8.38%	-1	4.65%	8,34%	100.00-4

ngemd for Cost Portium :

RH - Public Ranal Honoring

IOS - Home Ornorship Scheme

C - Commercial (Bingung) Cont

P - Coput

Gl. - Western Functions 179 080 UN UN UW UW U Yo Q

WAC CP(Bost)AMI

Welfare & Con

Wellins & Community
Temporary Open Space Corports & Market Stall

Unless otherwise stand, all prices are at June 2000 price level and adjusted for tender price inflation to tender in dates of contracts based on UNA per sevens from June 2000 to December 2000 and 6.00% per sevens from June 2001 convents.
 Special External Works cost conspries book foundation and building costs of those learned constitled as special external works landades in building contact.
 Apportionment of the Sist Development and Construction Costs are in accordance with the satisfage cost apportionment guidelines set not in relevant DCMSI.
 For Please 3 & 4, contingencies an ext at 2% for all standard blocks superstruction and 5% for all non-attended works/based included (approved by BC before).

telusions:

) Other separate contracts include model making, pressurations drawings and its printing. TV survey to complete underground drainings weeks, laboratory tests and soft landscape works.

schesions:

Perject Management Cents, e.g. professional survices & averheads, consultant fices, one, and other Project Couts, e.g. swelliery project connected financing and legal contributions, etc.

Conts of size inventigation and gentechnical works, insting of construction materials arranged by HA.

moreptions :

ois of the Estimate : for Successivy Short of each Photo

spared by :

Didie W.Y. Kong

QS/C3

6-Nev-00

Page 2 of 2

### SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 16

PROJECT : Redevelopment of Kwai Chung Estate PHASE : ] PHDP Code : TW20RR03

	COST HEADS	WORK ELEMENTS	BUDGET COST (SM)
( <b>2</b> )	Site Development Cost	Site Formation	(3/46)
	=	Demolition	4.973
/L\	C	Sub-total:	4,973
(b)	Construction Cost	Foundation	152.960
		Building	1,320,459
		Other separate contracts	4.525
,_\	Oil Direct	Sub-total :	1,477,944
c)	Other Project Cost	Civil engineering and geotechnical studies,	
- 1	(2% on (a) & (b))	site investigation, material testing and	4
-		the like	29.658
d)		Total Site Development and Construction Cost	
- 1		(a)+(b)+(c):	1,512,575

#### Notes :

- (1) All prices are at June 2001 price level and adjusted for moder price inflation to tender in dates of constructs based on 0 % for June to December 2000 and 6 % for Junuary to June 2001.
- (2) Apportionment of the Construction Costs are ist accordance with the existing cost apportionment guidelines set out in relevant DCMB1.
- (3) Remons for Cost Difference from Standard Cost Yardstick a shall be highlighted.
- (4) The costs for softlandscaping works, utilities connections, diversion works by Government Departments or Utility Companies, and minor works carried out specifically for the project, eg, roadworks or slopeworks outside site boundaries under separree contracts but charged to the project shall be grouped under Other Separate Contracts.
- (5) The fluctuation provisions shall be worked out based on the farmula as shown on the Guidance Notes for Standard Cost Yardsticks.
- (6) Development contingencies of \$ 12,171 M for the standard block superstructure and \$ 31,701 M for non-standard blocks/buildings and non-standard elements such as civil engineering works (site formation, slope protection, etc.), demotision, foundation, external works and underground drainage, etc. are included in the Site Development and Construction Cost.

#### Exclusions:

- (1) Project Management Costa, e.g. professional services & overheads, consultant fees, etc. and other Project Costa, e.g. ancillary project expenses, financing
- (2) Costs of site investigation and geotechnical works, testing of construction materials arranged by HA.

(1) Cost Yardsticks have been used in the calculation of the following portion with mon-standard adjustr Domestic and Welfare

Prepared by :		WTP (HK) Ltd.
Date :	32	October 2008

N. 18 1 1 195

### PROJECT: Redevelopment of Kwai Chung Estate PHASE: 3 PHDP Code: TW20RR03

			FRH				PORTIONS						_	
			T ALI	HOS	CP	cc	WEL & CO	M PTL	UN	GN	TS	Common items		Total
CPA of Cost Partions (m2)			<del></del>								<u> </u>	LW	DEM	(Incl. Mechation
			126,637	•	30,24	16,950		95 5.1						
COST STEMS								2,1	1,1	<u> </u>		1 . 1		180,106
			1											
						Ertimate d	Cent la 5,000				1	1 7		
(Rechiller Other Project Casts & Tomber			1 1								<del> </del>			\$,000
			! !		1	ļ	-			1				
1.0 Site Des rispanent Fosts 1.1 Demotition Contract			1 1		1	1	1	1		1		] [		
1.2 Site Fermation Contract			1 1			[	· ·			1		1 1		
i e			1 1		1	ł	1	ł		1		1 1		
2.0 Canalyneilan Casts			1 1		l l	1	1	1	1		i .	1 1	4,973	4,97.
2.1 Foundation Contract					ì	l	1		ļ			11		
2.2 Building Contract			72,741		17,399	9,737	,	1 2,95	2 63	.l	1	1 1		1
2 21 Building (axel, building services)						1		1	_	7	ĺ	49,441		192,961
1 4 44 Building Services			514,323		117,419	161,317	30	30,20			l			
2 23 Transfer Structures			99,011		33,222	76,892	[ ]							154,789
2.24 Public Transport Interchange			1 1		l i		· ·	7	3,42	1,019		ľ		224,829
2.15 External Works for commonly shared elements 2.26 External Works for Specific Businesses			1 1		!!!		[		1	1	40,103			40,503
2 27 Automoted Refuse Collection System			1					1	Į.	ļ		1	- 1	
2.3 Other Separate Contracts (Incl. Softlandscape)			1 1		1 1			1	l	26,897		99,271	- 1	99,274
			1 1	1			1	Į	ļ			33,700		24,897
Coot Budget At June 2009 Price Level			<del>  -</del>						1	77)		3,620	- 1	33,709
B. Cant Andert Praireited To		(A)	710,279	1	164,640	247,946	34	46.386	10,477					4,393
Ecapened Dates of Tenders   Cost in Item (A) plus Cost	n (u) (u) (v) (v)								70,477	28,619	40,503	186,041	4,973	1,444,324
1.0 Site Development Costs	A TAT LAI TAL UAL	ı ,	1 1	- 1	1	ļ		ł						
1 1 Demolition Contract	Total City	ı	l I		- 1	- 1		1		i ,		- 1	ŀ	
1 2 Site Formation Contract	\$4,973	· i	l f	- 1	1	ſ		l i			[			- 1
	1			- 1	- 1	[					1	ſ	4,973	- 1
2.8 Construction Costs 2.1 Foundation Contract			l i	- !	- 1	ı		[ ]	- 1	1	- 1	- 1	9,971	4,973
	\$191,560		72,743	- I		- 1		1		- 1		ļ		i
2.3 Building Contract	\$1,328,459	- 1	77,143	ĺ	17,399	9,737	52	2,952	634	- 1	1			ı
2 16 Baliding (and building services) 2 22 Building Services		- 1	354,679	- 1	- 1				- 1	- 1	- 1	49,441	- 1	133,960
2 23 Transfer Structures	29	- 1	101,911	- 1	120,942	164,157	320	31,110	7,075	ĺ	- 1	f	- 1	- 1
2 14 Public Transport Interchange			1-1,5-1	j	34,219	79,199	33	13,617	3,126	1,010	- 1	- 1	- 1	489,433
2.23 Esternal Works for somewhile A. A.			1	1	1			1			41,714	į į	- 1	233,435
2 26 External Works for Specific Studenton			ł		- 1	- 1	- 1		- }	- 1			1	41,718
2 27 Automated Refuse Callection System		- 1	l l		- 1			İ	J	- 1	- 1	102,249		102,249
2.3 Other Separate Contracts (Incl. Softilandscape)		170				- 1	1	i	- 1	27,704	- 1	ſ		27,704
est Budget Projected	\$1,525				- 1		- 1	- 1	- 1	- 1	ĺ	34,720		34,720
Proposed Dates Of Tanders	1									796		3,729		4,525
tact of Contract		(0)	729,405		172,560	255,093	மு	47,619	naul		i			1,282
emolision			Tender la	Dates		lastered fo	Canagina afje		11,113]	79,530	41,714	190,139	4,973	1,462,967
14 Formation			12		- Ma	ads x # %	i 19 4							
Mindation					- Mo	mins z # % /	12 + -	M	onds x # %	/12=		(+)		
silding   for inflation adjustment, 'Other Separate Contracts'			74	_		mms # # % /			onthe z # % onthe z # %			(w)		
nder-in Dues to be inken the same as "Building")			June 2001				-	- N	···/#13 # # %	111=		(y)		
tablifer Cost Partiers;			WH TAN	-	6Mo	nds z 0%/	12 +	4 M	miths # 6%	/12=	10/			
H - Public Rental Housing							_				1%	(z)		
- House On service Schools	CP.	· Ce												
- Commercial (Shopping) Centre	WEL GN	A We	cifars & Comment	ty Facilities	,		U. T:			allocable				
the backs, exclusions and bates of this Cost Budget, please rafer to info		- Con	n mamorel Non-reli	n huesa bia			E)		Ter	Aufer Siructus				

### SUMMARY OF CONSTRUCTION COST BUDGET NO. 16 (cont'd)

## PROJECT : Redevelopment of Kwai Chung Estate PHASE : 3 PHDP Code : TW29RR03

	$\Lambda_{i}$	
Notes:		÷
(1)	All prices are at June 2001 price level and adjusted for tender price inflation to tender in dates of contracts based on 0 % for June to December 2000 and 6 % for January to June 2001 Apportionment of the Construction Costs are in accordance with the existing cost apportionment of the Construction Costs are in accordance with the existing cost apportionment of the Construction Costs are in accordance with the existing cost apportionment of the Construction Costs are in accordance with the existing cost apportionment of the Construction Costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing cost apportion costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accordance with the existing costs are in accord	
(2)	Apportionment of the Construction Costs are in accordance with the existing cost apportionment guidelines set out in relevant DCMBI.	i.
(3)	Reasons for Cost Difference from Standard Cost Yardstick a shall be highlighted	
(4)	I ne costs for softlandscaping works, utilities connections, diversion works by Courses and Course of the Course o	
	eg. roadworks or slopeworks outside site boundaries under separate contracts but charged to the project shall be grouped under Other Separate Contracts.  The fluctuation provisions shall be worked out based on the formula se shall be Contracts.	t.
(5)	The fluctuation provisions shall be worked out based on the formula as about one the Guident blocks shall be grouped under Other Separate Contracts.	
(6)		
	works (site formation, slope protection, etc.), demolition, foundation, external works and underground drainage, etc. are included in the Site Development and Construction Cost.	R
	Construction Cost.	
Exclusio	ns: · ·	
(1)	Project Management Costs, e.g. professional services & overheads, consultant fees, etc. and other Project Costs, e.g. anciliary project expenses, financing	
	and legal, costs/expenses, etc.	
(2)	Costs of site investigation and geotechnical works, testing of construction materials arranged by HA.	
	The state of the s	
Remark		
(1)	Cost Yardsticks have been used in the calculation of the following portion with non-standard adjustments:	
	Domestic and Welfare	
Prepared	by: WTP (HK) Ltd.	
Date:	October 2000	

## Construction Cost Budget No. 16 (Domestic Blocks: Public Rental Housing Portion)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

Cost at June 2000 Price Level	No. o	Foundation		
	Flats		- /	1 10174
1.0 Standard Blocks		<del> </del>		<del></del>
		1	)	- 1
(a) Hermony Block (Type Option ,  Block No8 _ ,41 Storeys)				
1B Flet	440			
- 2 B Flat	440 160	23,180 30,510	219,180	242,360
- JBFlat	40	37,370	288,600	319,110
- I P/ 2 P Flat	119	14.310	353,350 135,390	390,720
10	759	1,213	15,500	149,700
Cost per Fint z Fint No. = Smb-Tatal (A)		٠	5000	
(Total CFA = 39,431 m2)	- 1	18.278		- 1
20/	- 1	10,2/6	172,861	191,139
				(\$ 4847 /m.2 C) (\$251830 per fi
2.0 Adjustments to Item 1.0 Above		<u> </u>		1
(a) Adjust for foundation to Blk, No. 8 bused on exportioned	- 1	4,317		
foundation contract sum (b) Adjust for Building Services Cost		0		4,317
e) Ddt. basic careass of ancillary/welfare facilities	(F)	_	1,279	3,279
in domestic block (530 m2)		(249)	(1,500)	(1,749)
d) Add for domestic portion in carpark podium (829m2)		476	5.034	44.0
e) Add for DCMBI P01/00	- 1	0		5,510
) Add for DCMBI P14/00, D20/00 & D24/00		•	1,860	1,860
	$\perp$	· · · · · · · · · · · · · · · · · · ·	775	775
Sub-Total (B)		4,544	9,448	13,992
	ı		1	(\$ 360 Am2 CFA)
			1	(\$ 18435 per (lat)
			7.32	% above that calculate
Manager de la Company de la Co	+-			on Standard Yardstick
Non-standard Blocks	-			1
Block (Type Block No	1		ł .	
Storeys)			ł	1
ļ			ł	1
į –			ļ	
- Flat/Unit (## m2 CFA per Flat/Unit)			]	
Flut/Unit (## m2 CFA per Flat/Unit)				
	- 1		1	J
			ļ	
Cost per Flat : Flat Ne. = Sub-Total (C)	T			<b></b>
(Total CFA =mz)	1			(S/m2 CFA)
				(Sper flut)
Development Continuency	-		-\$'000	
All standard blocks superstructure only	1		3,546	
All non-standard blocks and all standard block elements other than	1	1	342-40	3,546
Superstructure	1	0	252	252
<u></u>	1	1		24
Sub-Tetal (D)		0		
	1	*	3,797	3,797
		- }		(\$ 96 /m2 CFA)
	1	. 1		(\$5003 per the;)
utal Cost of Domestic Block - Public Rental Housing	12		5000	
ertion at June 2000 Price Level = (A) + (R) + (C) + (D)	_			
actuding Provisions for Contract Fluctuations)	22	2,822	186,107	208,929
				(\$ 5371 /m2 CFA)
	ł	ſ	·	(\$27526# per flat)

### Note |

For Welfare/Unallocable Portions in the domestic blocks, e.g. Sheltered Housing, use separate calculation shows and ensure that NO DOUBLE COUNTING in flat numbers has been made. Check with the Project Manager if there is any doubt.

### Construction Cost Budget No. 16 ( Domestic Blocks: Public Rental Housing Portion)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

	T	Cost	per Flat	
Cost at June <u>2000</u> Price Level	No. of Flats	Foundation (Incl Caps)	Beilding (Exct Caps)	TOTAL
1.6 Standard Blocks  (a) Harmony Block (Type Option6  Block No6 & 7 41 Storcys)				
- 1 B Flat - 2 B Flat - 1 P/ 2 P flat - 2 P/ 3 P flat	320 320 318 640 1,598	23.850 31,810 14,850 18,140	242,960 324,170 151,310 184,820	266,810 355,980 166,160 202,960
Cost per Flat x Flat No. = Sub-Yatal (A) (Total CFA = 73,091 m2)		34,143	347,883	382,026 (\$ 5227 Ma2 CF (\$239065 per ft
Adjustments to Item 1.0 Above     Adjust for foundation to Bit, No. 6 & 7 based on apportion foundation contract sum	ed	7,797	5000	7,797
b) Adjust for Building Services Cost			2,534	2,534
<ul> <li>Ddr. basic curcass of meillary/welfare facilities in domestic block (443 m2)</li> </ul>		(208)	(1,254)	(1,462)
l) Add for domestic portion in curperk podium (1548m2)		<b>\$3</b> 9	9,401	10,290
e) Add for DCMBI P01/00		0	3,475	3,475
) Add for DCMBf P14/00, D20/00 & D24/00		٥	1,449	1,449
Sub-Total (B)		8,478	15,605	24,083 (\$ 332 /m2 CFA (\$ 15071 per flar shove that calculus
		¢		n Standard Yardstic
# Non-atendard Blocks    Block (Type, Block No,   Storeys)  Flat/Unit (## no.2 CFA per Flat/Unit) Flat/Unit (## m2 CFA per Flat/Unit)				
Cost per Flat x Flat No. = Sub-Tetal (C) (Total CFA =m2)				(S/m2 CFA) (Spur flat)
Development Continuency			2000	
All standard blocks superstructure only All non-standard blocks and all standard block elements other the superstructure	-	0	7,082 470	7,082 470
Sub-Total (D)		0	7,552	7,552 (\$ 194 /m2 CFA) (\$4726 per flat)
Total Cost of Domestic Black - HOS Portion at June 2000 Price Level = (A) + (B) + (C) + (D) (including Previsions for Contract Fluctuations)		42,621		413,661 (\$ 3694 /m2 CFA) (\$258862 per flet)

#### Note

For Welfare/Unallocable Portions in the domestic blocks, e.g. Sheltered Housing, uses separate calculation absents and ensure that NO DOUBLE COUNTING its flat numbers has been made. Check with the Project Manager if there is any doubt.

## Construction Cost Budget No. 16 (Domestic Blocks: Public Rental Housing Portion)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

Cost at June 2000 Price Level	N		per Flat	
	No. of Flats	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
(a) Harmony Block (Annex 5 Option 1 Block No. 8A 36 Storeys)				
- 1P/ ZP flat	385 385	17,430	205,920	223.350
Cost per Flat x Flat No. = Sub-Total (A) (Total CFA = 12,667 m2)		6,711	79,279	85,990 (\$ 6789 /m2 CF/ (\$223351 per fla
2.0 Adjustments to Item 1.0 Above		<u> </u>	2.000	
(a) Adjust for foundation to Blk, No. <u>8A</u> based on apportioned foundation contract sum (b) Adjust for Building Services Cost		542	0	542
1		٥	(2,679)	(2,679)
(c) Ddt. basic careass of ancillary/welfare facilities in domestic block (220 m2)	ĺ	(103)	(623)	(726)
(d) Add for domestic portion in carpark podium (264m2)		152	1,610	L,762
(e) Add for DCMBI P01/00	ı	0	595	595
(f) Add for DCMBI P14/00, D18/00, D20/00 & D24/00		0	581	581
Sub-Tetal (B)		591	(516)	75 (\$ 6 /m2 CFA) (\$ 195 per flat) above that calculates
		<		a Standard Yardmick
3.0 Non-standard Blocks  (a) Block (Type , Block No , Storeys) Flac/Unit (## m2 CFA per Flac/Unit)  Flac/Unit (## m2 CFA per Flac/Unit)				
Cast per Fint x Fint No. = Sub-Total (C) (Total CFA =				(S/m2 CFA) (S per (lat)
Development Continuency     All standard blocks superstructure only     All uon-standard blocks and all standard block elements other than superstructure		0	5000 1,543 81	I,543 8I
Sub-Tacul (D)		0	1,624	1,624 (\$ 130 /m2 CFA) (\$4217 per flat)
Total Cost of Domestic Block - HOS Portion at June 2000 Price Level = (A) + (B) + (C) + (D) (including Provisions for Contract Fluctuations)		7,302		87,689 3 7045 /m2 CFA) 3227765 per flac)

#### Note

For Weifine/Unallocable Portions in the domestic blocks, e.g. Sheltered Housing, use separate calculation sheets and ensure that NO DOUBLE COUNTING in flat numbers has been made. Check with the Project Manager if there is any doubt.

### Construction Cost Budget No. 16 (Carpark Portion)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

			Estimated		
ļ	Cost at June 2000 Price Level	Space	Foundation	Building	TOTAL
		(No.)	(Incl Caps)	(Excl Caps)	
			-		
1.0	Carpark (Integrated Comm./Carpark				
1	Building) based on Actual Design			34	
(a)	•		-		
	- Private (39 m2 CFA per space)	489	1		
	- Lorry - Light (97m2 CFA per space)	112	1		8
	- motorcycle (7 m2 CFA per space)	49			
	W.	650	17,399	110,165	127,564
(ь)	Building Services		0	31,640	31,640
(c)	Add for DCMBI P01/00		0	1,419	1,419
(d)	Add for DCMBI P14/00		· o	244	244
			<		
	Sub-total (A) :-		17,399	143,468	160,867
		į			(\$ 5311 /m2 CFA)
	Control CTA bounders A to 1 to 1 to 20 cmg to				(\$247488 per space)
	(Total CFA based on Actual Design = 30,288 m2 & Average CFA per carparking space = 47 m2)				
	www.coage.co.v.ber.coa.barwing.abace41.mr)				
					% above that calculated on Standard Yardsticks
			<	-\$'000	
4.0	Development Contingency		. 0	7,173	7,173
	Total Cost of Carpark Portion at June 2000		17,399	150,641	168,040
	Price Level = Total of Item 1.0 to 2.0	- 0			(\$ 5548 /m2 CFA)
(	(including Provisions for Contract Fluctuations)				(\$258524 per space)
		1			·

3.0	Difference between Actual Design (Item 1.0 above) and Cost Yardsticks/Cost Ceiling/Budget due to the following:	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
		<		>
(a)	Add for adjustment to efficiency ratio of car space	(243)	(1,421)	(1,664)
(b)	Adjust for Cost of foundation based on apportioned foundation contract sum	2,700	0	2,700
	Adjust for Cost of building based on actual design	0	(4,638)	(4,638)
(d)	Adjust for Cost of BS installations based on PBSE's advice	0	10,342	10,342

Cost per Space in the Total Column represents the average cost per space inleuding private and larry spaces.

Noted that the Cost per Space in the Total Column represents the average cost per space including private and lorry spaces.

## Construction Cost Budget No. 16 (Commercial Centre Portion)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

Com at June 2000 Pains I am I			Estimated Cost			
Cost at June 2000 Price Level	CFA (m2)	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL		
10.6		<		3		
1.0 Commercial Centre (Integrated with Carpark Building) based on Actual Design						
(a) Shopping Centre Portion (Type	16,950	9,737	152,706	162,443		
(b) Building Services		0	37,840	37,840		
(c) Add A/C Provision to Shopping Centre (excl. Market)  @\$ 3,385 per m2 A/C area  (Total A/C Area = 8,003 m2)		0	27,090	27,090		
(d) Add A/C Provision to Market area only  @\$ 4,434 per m2 A/C area  (Total A/C Area = 1,872 m2)		0	8,300	8,300		
(e) Add for DCMBI P01/00		0	794	794		
(f) Add for DCMBI P14/00	i	0	136	136		
2.0 Development Contingency		0	11,343	11,343		
Total Cos Sub-total (A) :- Price Level = Total of Items in 1.0 to 3.0		9,737	238,209	247,946 (\$ 14628 /m2 CFA)		
(including Provisions for Contract Fluctuations)				% above that calculated on Standard Yardsticks		

	Difference between Actual Design (item 1.0 above) and Cost Yardsticks/Cost Ceiling/Budget due to the following:-	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
(a)	Deduction for adjustment of Control of Control	<	\$ 000	
100	Deduction for adjustment on Cost of Foundations based on apportioned foundation contract sum	(6,094)	0 1	(6,094)
(b)	Addition for adjustment on Cost of BS installations	0		, , ,
	based on PBSE's advice	U	1,838	1,838
(c)	Addition for adjustment on Cost of air-conditioning	0	12,085	æ:
ļ.,,	based on PBSE's advice	•	12,000	12,085
(d)	Deduction for adjustment for building cost based on actual design	0	(10,254)	(10.254)
(c)	Addition for loading / unloading area (2376 m2)	1,365	8,299	(10,254) 9.664

### Construction Cost Budget No. 16 (Mutual Aids Community)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

		Estimate	d Cost	
Cost at June 2000 Price Level	CFA	Foundation	Building	TOTAL
	(m2)	(Including	( Excluding	
		Caps)	Caps)	
	<u> </u>	<		
1.0 Mutual Aids Community (MAC) in Domestic Blocks (G/F)				
(a) Ancillary/Welfare facilities (no fitting out included)	90	41	230	271
(b) Fitting Out for Ancillary/Welfare Facilities  (Total area to be fitted out = 90 m2 CFA)	90	0	247	247
(c ) Building Services Cost		0	30	30
2.0 Other Adjustments for Item 1.0 Above				
(a) Adjust for Foundation to Ancillary/Welfare facilities based on preliminary design by PSE		11	0	11
(b) Add for DCMBI P01/00		o	4	4
3.0 Development Contingency		· o	26	26
Total Cost of MAC at June <u>2000</u> Price Level = Total of Items in 1.0 to 3.0  (including Provisions for Contract Fluctuations)		52	537	589 (\$ 6489/m2 CFA)

## Construction Cost Budget No. 16 (Public Transport Interchange Portion)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

Cost at June 2000 Price Level		ed Cost	
Cost at June 2000 Price Level	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
A Public Transport I touch	\$,000.00	>	
.0 Public Transport Interchange based on Actual Design (Covered Area = 5138 m2)			
a) Bus Terminus and Taxi/GMB Stand	4,793	28.525	
2g. 2g. 2g. 2g. 2g. 2g. 2g. 2g. 2g. 2g.	1,755	20.323	33,318
) Adjust for foundation cost based on preliminary design by PSE	(1,841)	0	(1,841)
) Building Services Cost	0	12,600	12,600
) Add for DCMBI P01/00	0	241	241
5*			
Sub-Total (A)	2,952	41,366	44,318
Development Contingency	\$,000.00	>	<u> </u>
Sevent Condingency	ļ		
	0	2,068	2,068
Carl H		,	
			1
Sub-Total (B)	0	2,068	2,068
			_,,,,,
otal Cost of PTI Portion at June 2000	- \$,000.00	>	
rice Level = $(A) + (B)$	2,952	43,434	46,386
		1	
including Provisions for Contract Fluctuations)			(\$ 9028/m2) Covered Area

### Construction Cost Budget No. 16 (Unallocable Portion)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

Г		<del>                                     </del>	Estimate	ed Cost	7
	Cost at June 2000 Price Level	CFA	Foundation	Building	TOTAL
	n e	(m2)	(Incl Caps)	(Excl Caps)	IOTAL
		\'		(	
			<	S'000	
1.0	Ancillary/Welfare Facilities		İ	1	1
П	in Domestic Block			87	
	(G/F)		1		
	8 2	54		1	
			1		_
					İ
(2)	Ancillary/Welfare facilities (no fitting out included)	1 102	400	4 400	
(4)	Antimary, we have facilities (no mung out included)	1,103	496	4,480	4,976
l					
(b)	Fitting Out for Ancillary/Welfare Facilities	1,103	0	1,963	1,963
	(Total area to be fitted out = $1.103$ m2 GFA)		1	]	1,705
(c)	Building Services Cost		0	3,260	3,260
١.	Other 4 35-14-14 (1914)				
	Other Adjustments for Item 1.0 Above Adjust for Foundation based on		120		ł I
	preliminary design		138	0	138
ł	promiseracy seedign				1
(b)	Add for DCMBI P01/00		0	52	52
					52
	2 25				[
3.0	Development Contingency		ſ		
	·		0	488	488
	<u> </u>				
	Total Cost of Unaliocable Portion at June <u>2000</u>	i	674	10.043	
	Price Level = Total of Items in 1.0 to 3.0	[	634	10,243	10,877
11.7	(including Provisions for Contract Fluctuations)	- 1	1	1	(\$0961 to 2 CC )
,	A			l l	(\$9861/m2 CFA)

#### Note

1. For fitting out for Welfare Facilities, refer to Guidance Notes on Cost Split for items to be chargeable to Welfare portion

#### Remarks

1.	Unaliocable Portion includes the following:	
	Estate Management Office	720 m2 CFA
	Artisan Workshop	60 m2 CFA
	BW/BS Maintenance Contractor's Office/Workshop	255 m2 CFA
	Office for Cleansing Contractor	68 m2 CFA
	Total	1,103 m2 CFA

Site Development Cost Budget No. 16 (Government Non-reimbursable)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

Cost at June 2000 but. 1	Estimat		
Cost at June 2000 Price Level	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
.0 Estimated Cost for Government Non-reimbursable	<	\$,000.00	
		±1	
) External Works to District Open Space (DOS)	0	25,617	25,617
Soft Landscape to DOS	0	736	736
) Building Services Cost	0	970	970
Development Contingency	0	1,366	1,366
w ×			1
₩			
		ļ	
17		ļ	
		\$,000.00	>
otal Cost of Government Non-reimbursable t June 2000 Price Level = Total of Items in 1.0 to 2.0 Including Provision for Contract Fluctuation)	0	28,689	28,689

(Transfer Structures - Commonly Shared Across Phases of the Development and Amongst Various HA Businesses)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

	Estima	ted Cost	T	
Cost at June 2000 Price Level	Building	Others	. TOTAL	
1.0 Transfer Plate based on Actual Design	<	\$,000.00		
(a) Transfer Structures Portion	<b>38,</b> 574	0	38,574	
₩		(2)		
75				
Sub-Total (A)	38,574	0	38,574	
	<	\$,000.00		
2.0 Development Contingency	1,929	0	1,929	
		}		
Sub-Total (B)	1,929	0	1,929	
Total Cost of Commonly Shared Transfer Structures	<	- \$,000.00		
at <u>June 2000</u> Price Level = (A) + (B) (including Provisions for Contract Fluctuations)	40,503	0	40,503	
	L			

### Construction Cost Budget No. 16 (External Works - Commonly Shared Across Phases of the Development and Amongst Various HA Businesses)

Project :

Redevelopment of Kwai Chang Estate Phase 3 (PHDP Code: TW20RR03)

Total GEA = 25.459 co.2; Total CFA= 180,206 co.2; Total LAA = 25.592 co.2

1 .	Cost at June 2000 Price Level		nated Cost	
	many or a series Truck Track Track Track	Foundation	Building	TOTAL
		(Inci Cape)	(Exci Caps)	
1 6 1	Fater of W. d. t.	<del></del>	00 000.2	
1.0	External Works based on Actual Design (Incl. Contract Price Fluctuation)	ł	1	
	Hard Landscape Works (Amenities)	6,781	12.00	
(b) [	Underground Drainage	70	37,991	44,779
(c) A	Add for Contract Fluctuation	ŏ	21,652 5,815	21,652 5,815
	Sub-Total (A)			
	200-1 otto (vr)	6,728	65,458	72,246
				(5 401 Au2 C
				(\$ 2452 mu2 G
.0 Sı	necial External Works based as Actual Design finct. Contract Price Fluc	[ <del></del>	\$,000.00	
	THE PART OF THE PA	10.50001		
) Fo	pothridge and lift tower to Phase 7			
) FL	ope stabilization	643	4,878	5,521
	caining walls and sheet piling	1,038	0	1,038
	S-Escalators and fifts	23,832		23,832
		0	6,100	6,100
, (4	ansuraction of new Shoung Kok Street abunting Phase 3 & 4.	1	1	0,100
104	id improvement works, underground utilities diversion and etc.	15,681	1 0	
Spi	ical racup at Carpack to Podium EVA	1,459	2.806	15,681
) Sig	y-Lit Entrance Lobby Canopy	1,437		10,265
) Ma	edification to road laid between Phase 3 & 7		6,259	6,259
Ad	d for Contract Fluctuation		1,000 2,042	1,000
	Sub-Total (B)	42,653	29,066	71,739
		i	]	(\$ 395 ALZ CEA
				Ø 2435 /m2 GE/
Der	releasement Contingency		\$,000.00	1
		•	4,727	4,727
	Seb-Total (C)	0	4,727	4,727
		1 1		(5.26 A=2 CFA)
				(\$ 140 /m2 GEA)
Tota	il Cost of Commonly Shared External Works at June 2000	49,441	99,271	148 713
rne	Love = (A) + (B) + (C)			148,712
(teach	uding Provisions for Contract Fluctuations)	li		(5 825 /==2 C(FA)
				(3 1048 ALZ GEA)
_		+	\$,000.00	
Cost	of Automated Refese Collection System at June 2000	0 1	32,104	** 104
Price	Level		32,104	32,104
Devel	depresent Contingency	0	1,605	1,605
		1		
	Cost of Automated Refuse Collection System at June 2000	0	13 700	
Total	· · · · · · · · · · · · · · · · · · ·		33,709	33,709
Price	Level - Total of Reess 4.0 to 5.0	1		-
Price	Level - Total of Iteas 4.0 to 5.0  ding Provisions for Contract Fluctuations)	1		(\$ 187 /m2 CFA) (\$ 1144 /m2 GEA)

Estimat		
Soft Landscape	Others	TOTAL
1,915	1,532	3,447
56	77	173
<del></del>	\$,000.00 —	,
2,011	1,609	3,620
1		(\$ 20 Au 2 (CFA)
		(5 125 Am2 GEA)
	Soft Landscape	Landscape   Others

Site Development Cost Budget No. 16 (Demolition)

Project: Redevelopment of Kwai Chung Estate Phase 3 (PHDP Code: TW20RR03)

		Estimat	ed Cost	
	Cost at June 2000 Price Level	Demolition	Others	TOTAL
		<	S,000:00	
1.0	Estimated Cost for Demolition		=	
(a)	Demolition of existing buildings (approx. 50.165 m2 CFA x cost/m2 CFA)	4,973	0	4,973
	Sub-Total (A)	4,973	0	4,973
		<	- \$,000.00	<u> </u>
2.0	Development Contingency	0	0	0
				£f
	Sub-Total (B)	0	0	0
		<	- \$,000.00	
2	Total Cost of Demolition  t June 2000 Price Level = (A) + (B) including Provisions for Contract Fluctuations)	4,973	0	4,973
,,,	P. CAMPAGE LACTURERORS)		25	

### **EXTERNAL WORKS - COST ESTIMATE**

Contract Title :		nt of Kwai Chung			
Description of Works  (No. of blocks and storeys shall be stated)  One no. 41 storeys New Harmony 1 Block (Option 1), two nos. 41 storeys shall be stated)  New Harmony 1 Blocks (Option 6), one no. 36 storeys New Harmony  Annex 5 Block (Option 1), one no. 4 storeys integrated comm./carpark building and associated external works  Project QS  WTP (Hong Kong ) Ltd					
Cost Information Available :	Estimate			ē.	
Schedule of Area					
(a) Gross Site Area (GSA) (Excludes any borrowed site are	eas which are to b	e handed over)	=	32,423	m2
(b) Plan Area of Peripheral Slopes			-	2,964	m2
(c) Plan Area within the boundary of & Special Schools (NOT Primar		¥	=	0	m2
(d) Gross Estate Area (GEA) { item (a) - (b) - (c) }			*	29,459	m2
(e) Footprint of all Buildings within	GEA (See Rema	rk (1))			
(i) Integrated commercial / car	rpark				
building	m2	19,365	······ =	19,365	m2
(f) Roof Area of buildings within G (i) Integrated commercial / car	EA for open land: park	scaping			
building	m2	15,498	=	15,498	m2
(g) Landscape Area (LAA) { item (d) - (e) + (f) }			902	25,592	m2
(h) Area of Estate Roads within GEA (measured up to back of road curi exclude open carparking spaces o	bs and		.=	4,850	m2
(i) Area of Carparking spaces on Est	ate Roads within	GEA	=	0	m2
(j) Area of Paving (include emergence	y access & safety	surfacing) within	GEA =	17,631	m2
(k) Area of Plant Beds within GEA (F	BA)		=	3,111	m2
(l) Total CFA of all buildings within (i) Block 6, 7, 8 and 8Annex (i					
facilities attached to domes	tic blocks)	125,189 m2			
(ii) Carpark		32,368 m2			
(iii) Commercial Centre		17,511 m2			
(iii) PTI		5,138 m2	=	180,206	m2

<sup>(1)</sup> Domestic blocks sits on podium of Integrated Commercial / Carpark Building.

### EXTERNAL WORKS - COST ESTIMATE

- \* Elemental cost estimate at June 2000 tender prices.
- \* Standard Construction Cost Yardsticks at June 2000 Price Levels are shown in brackets ( ) for comparison.

Project Title: REDEVELOPMENT OF KWA	AI CHUNG EST.	ATE PHASE 3			
Project Code (PHDP): TW20RR			Phase Cod	e (PHDP) : 03	
Gross Site Area (GSA):	32,423	m2	Ratio GSA: GEA	= 1 : 0.91	(1:0.90)
Gross Estate Area (GEA):	29,459	m2	Ratio GEA: LAA	= 1 : 0.87	(1:0.75)
Landscape Area (LAA):	25,592	m2	Ratio GEA: CFA	= 1 ; 6.12	(1:6.00)
Plant Bed Area (PBA):	3,914	m2	Ratio GSA: PBA	= 1 : 0.12	(1:0.17)
CFA of All Buildings Within GEA:	180,206	m2	Ratio LAA: PBA	= 1 : 0.15	(1:0.22)

					Unit Costs/m2						
		ELEMENT	Total Cost		Gross Estate		CFA of		Landscape		
_	· ·		C 00	\$.000.00		Area		All Buildings		Area	
1	Hard	Landscape Works	3-74	1 <u>0.00</u>	7	/m2	2	<u>/m2</u>	2	/m2	
•	1.1	Site works (levelling/clearance)	(1,974)	500	(67)	17	(11)	) 3	(89)		
	1.2	Walls (screen / toe / planter)	(3,682)	ı	(125)	1	(21)	1			
	1.3	Estate Roads	(2,003)		(68)	1	(11)		1 ' '	1	
	1.4	Open carparking spaces on estate roads	(118)		(4)		(1)	1		1	
	1.5	Paving (incl. emergency access & safety mat)	(9,073)		(308)	1	(51)		(411)		
	1.6	Pavilions / pergolas / shelters	(1,473)	3,015	(50)	1	(8)	1	(67)	1	
	1.7	Water feature/ pond	(177)	0	(6)	1	(1)	1	(8)	1 1	
	1.8	Covered walkways (pavings incl. in item 1.5)	(7,217)	6,100	(245)		(41)	1	(327)	ł I	
	1.9	Play equipment	(1,090)	1,000	(37)	34	(6)	6	(49)	39	
	1.10	Fencing/railing/guard house/drop gate	(1,414)	516	(48)	18	(8)	1	(64)	1 2	
	1.11	Estate amenities (ball courts, seating, etc.)	(2,386)	2,000	(81)	68	(14)	1	(108)	1 1	
	1.12	Amphitheatre / estate entertainment	(471)	0	(16)	0	(3)	0	(21)		
14	1.13 1.14	Refuse collection area / junk points BS installations	(1,296)	0	(44)	0	(7)	0	(59)		
	55	(a) External lighting	(2,386)	1,500	(81)	51	(14)	8	(108)	59	
		(b) Water pump (for water feature/pond)	(88)	0	(3)	0	(1).	0	(4)		
		(c) Others	(236)	236	(8)	8	(1)	1	(11)	9	
	1.15	Sundries	(1,473)	1,473	(50)	50	(8)	8	(67)	58	
•		Sub-total	(36,557)	31,657	(1,241)	1,075	(207)	177	(1,656)	1,236	
	Soft La	agazabn	(1,915)	1,915	(65)	65	(11)	11	(87)	75	
	Other F	xternal Works									
	3.1	Mains / sub-mains etc.	(3,329)	3,329	(113)	113	(19)	18	(151)	130	
	3.2	Irrigation	(265)	265	(9)	9	(2)	1	(12)	10	
	3.3	Builder's work in connection with	(2,740)	2,740	(93)	93	(16)	15	(124)	107	
		BS installation / services			, ,		(/		(121)	.07	
	3.4	Connection works by Government	(1,532)	1,532	(52)	52	(9)	ا و	(69)	60	
		Depts/Utility Co.			` 1				(0)		
		Sub-total	(7,866)	7,866	(267)	267	(46)	44	(356)	307	
		Total 1, 2 & 3	(46,338)	41,438	(1,573)	1,407	(264)	232	(2,099)	1,618	

### EXTERNAL WORKS - COST ESTIMATE (CONTD)

Project Code (PHDP): TW20RR

Phase	Code	(PHDP)	: 03

			Phase Code (PHDP): 03								
		ELEMENT  Iderground Drainage	_				Uni	t Costs/m	2	<del></del>	-
ł		FIFIKENI	Tot	al Cost	Gre	ss Estate	•	CFA of	L	andscape	-
			5.0	200.00	-	Area	All	Buildings		Area	
			المناقب ا	00.00	1	<u>\$/m2</u>		S/m2		<u>\$/m ?</u>	_
4	(inc. a	reround Drainage  Ill U/G soil and surface water drainage  hannels and gullies)	(21.652	21,65	2 (73	<b>5)</b> 7.	35 (12	13)	20	8-1	5
		Total 1, 2, 3 & 4	(67,990)	63,090	(2,30	B) 2,14	2 (38	7) 35	2	2,463	-
5	Specia	d External Works									1
	5.1	Footbridge and lift tower to Phase 7		5,521		18	7	3	1	216	5
	5.2	Covered bus terminus		0			0	1 6		0	1
	5.3	Staircases/ Ramps		0			0		,	0	
	5.4	Elevated deck		0	1		0		,	0	
	5.5	Slope stabilization		1,038		3.	5		7	41	ļ
	5.6	Retaining walls and sheet piling		23,832	]	809	,	132		931	l
	5.7	Noise barrier		0		(	1	1 .52	1		l
	5.8	Works outside site boundary		0		1 0			1	0	ı
	5.9	BS-Escalators and lifts		6,100		207		34	1	0	l
	5.10	Construction of new Sheung Kok Street abutting Phase 3 & 4, road improvement works, underground utilities diversion and etc.		15,681		532	1	87		238 613	
	5.11	Spiral ramp at Carpark to Podium EVA	i	10,265		348	İ				
	5.12	Sky-Lit Entrance Lobby Canopy	1	6,259		1	1	57		401	!
	5.13	Modification to road laid between Phase 3 & 7	1	1,000		212	!	35	f	245	
	5.14	Automated refuse collection system		32,104		34 1,090	ĺ	6		39	
						1,090		178	ĺ	1254	
	<del></del>	Sub-total		101,800		3,456		565		3,978	
		TOTAL 1,2,3,4 & 5	(67,990)	164,890	(2,308)	5,598	(387)		-	6.441	

**Inclusions** 

- All elemental costs are inclusive of contingencies (For Cost Estimate 5%) (a) and preliminaries (For Cost Estimate - 15%).
- Roof landscape areas and costs. (b)

**Exclusions** 

- (a) Demolition / site formation not in building contract
- Fluctuations in labour and materials. (b)
- Fees & on costs. (c)

Prepared, by: WTP (HK) LTD. Date: October 2000

for PDRC Meeting (October 2000)

### SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 15 (For PDRC (2) Submission)

PROJECT :_	Redevelopment of Kwai Chung Estate	_PHASE : _4	PHDP Code:
------------	------------------------------------	-------------	------------

_	COST HEADS	WORK ELEMENTS	BUDGET COST
a)	Site Development Cost	Site Formation	•
		Demolition	5.58
		Sub-total:	5.58
(b)	Construction Cost	Foundation	66.66
İ	2	Building	626.14
		Other separate contract	1.54
		Sub-total:	694.34
(c)	Other Project Costs	Civil engineering and geotechnical studies,	
	(2% on (a) & (b))	site investigation, material testing and	14.00
		the like	
(q)		Total Site Development and Construction Costs	
-		(a)+(b)+(c):	713.92

#### Notes:

- (1) All prices are at June 2000 price level and adjusted for tender price inflation to tender in dates of contracts based on 6.0 % per annum.
- Apportionment of the Construction Costs are in accordance with the existing cost apportionment guidelines set out in relevant DCMBL (2)
- (3) Reasons for Cost Difference from Standard Cost Yardsticks have been highlighted.
- The costs for softlandscaping works, utilities connections, diversion works by Government Departments or Utility Companies, and minor works carried out specifically for the project, (4) eg, roadworks or slopeworks outside site boundaries under separate contracts but charged to the project shall be grouped under Other Separate Contracts.
- (5) The fluctuation provisions shall be worked out based on the formula as shown on the Guidance Notes for Standard Cost Yardsticks.
- Development contingencies of \$8,705 M for the standard block superstructure and \$8,750 M for non-standard blocks/buildings and elements are included in the Site Development (6) and Construction Costs.
- As informed by APM/A88 on 16.9.2000 that the costs for RCHE are to be wholly charged to Lotteries Fund. (7)

#### Exclusions:

- (1) Project Management Costs, e.g. professional services & overheads, consultant fees and Consultant Site Staff.
- (2) Costs of RCHE which are funded by Lotteries Fund.

#### Assumptions:

(1) NiL

#### Bask of the Budget :

- (1) Transmittal from Ma Leung to APM/A88 ref. 9821/HKHA.368 dated 11 July 2000.
- (2) Transmittal from Ma Leung to APM/A88 ref. 9821/HKHA.372 dated 14 July 2000. (3)
- Transmittal from Ma Leung to APM/A88 ref. 9821/HKHA\_379 dated 20 July 2000.
- (4) Transmittal from Ms Leung to APM/A88 ref. 9821/HKHA.394 dated 1 August 2000.
- (5) Fax from Lu & Associates to Ma Leung ref. ML/KCE4/98 12(F98) dated 26 September 2000.
- Transmittal from Ma Leung to APM/A88 ref. 9821/HKHA.406 dated 14 August 2000. (6)
- (7) Fax from Siu Yin Wai to Ma Leung ref, J349CLT00-055/YWS/bVkk/pw dated 14 August 2000.
- Fax from Lu & Associates to Ma Leung ref. ML/KCE4/98.12(F112) dated 2 November 2000.

repared by :	Didlo W.Y. Kong (QS/C3)
Date :	3 November 2000
	3 NOVEMBER 2000

PELASE 4

PROJECT : Redevelopment of Kwai Chung Estate PILASE: 4 PILDP Code : COST FORTIONS Common Items Total PRI HOS CC CP(PC) WEL Wel & Com (incl. Fluctuation) CFA of Cost Partieus (m2) 87,439 9.657 2,632 60 99,788 COST ITEMS Estimated Cost in 5.000 Sile Development & Construction Cost Budget At June 2000 (Excluding Tender Price Inffailon) 1.0 Site Development Carte 1.1 Demolition Contract (Based on tender return on Jan 1999.) 5,5B4 1.2 Site Formation Contract 2.1 Construction Costs 2.1 Foundation Contract (Based on tender return on June 2000.) 58,415 6,451 1,758 66,664 2.2 Building Contract 2.21 Suikling (exc), building services) 381,873 43,458 14,182 336 439,849 2.22 Building Services 68,670 10,704 6,363 22 85,759 2.23 Transfer Structures 28,202 28,202 2.24 Public Transport Interchange 2.25 External Works for commonly shared elements 58,545 58,545 2.26 External Works for Specific Businesses 2.27 Automated Refuse Collection System 4,529 4,529 2.3 Other Separate Contracts (inc). Suffilandscape) 1.519 1.519 Cost Hudget At June 2000 Price Level 508,958 (A) 60,613 22,303 398 28,202 64,593 690,651 B. Site Development & Construction Cost Budget At June 2000 ilaci. Tender Price Inflation) ( Cost in Item (A) plus Cust a (v), (w), (y) or (z) ) Cantruct 1.8 Site Develonment Curta Tetal (I'M) 1.1 Demolition Contract 5.58 5,584 1.2 Site Formation Contract 1.6 Construction Costs 2.1 Foundation Contract 66.66 58,415 6,451 1,758 66,664 2.2 Building Contract 626.14 2.21 Building (excl. building services) 387,601 44,110 14,395 341 446,447 2.22 Building Services 69,700 10,865 6,458 22 87,045 2.23 Transfer Structures 28,625 28,625 2.24 Public Transport Interchange 2.25 External Works for commonly shared elements 59,423 59,423 2.26 External Works for Specific Businesses 2.27 Automated Refuse Collection System 4,597 4,597 2.3 Other Separate Contracts (incl. Softlandscape) 1.54 1,542 1,542 Cost Budget To Proposed Dates Of Tenders 699.92 (h) 515,716 61,426 22,61 403 28,625 65,562 699,927 Types of Contract Tender In Dates Adjustment for months after June 2000 Demolition Months x # % / 12 = (v) Site Formation 01/99 Months x # % / 12 = (w) Foundation 06/00 Months x # % / 12 = Building ( for inflation adjustment, "External Works", "Others", etc., (y) Tender-la Dates to be taken the same as "Building") 03/01 Months a 6 % / 12 = 1.50% (z) Legand for Cast Portions ; PRII - Public Rental Housing - Private Car Carpark TS Transfer Structure 1105 - Home Ownership Scheme Wel & Com . Welfare & Community Facilities External Works

CC - Commercial (Shopping) Centre

- Welfare Facilities

#### SUMMARY OF CONSTRUCTION COST BUDGET NO. 15 (cont'd)

PROJEC	T: Redevelopment of Kwal Chung Estate PHASE: 4 PHDP Code:
Notes :	
(1)	All prices are at June 2000 price level and adjusted for tender price inflation to tender in dates of contracts based on 6.0 % per annum.
(2)	Apportionment of the Construction Costs are in accordance with the existing cost apportionment guidelines set out in relevant DCMBI.
(3)	Reasons for Cost Difference from Standard Cost Yardsticks have been highlighted.
(4)	The costs for softlandscaping works, utilities connections, diversion works by Government Departments or Utility Companies, and minor works carried out specifically for the project,
	eg. roadworks or slopeworks outside site boundaries under separate contracts but charged to the project shall be grouped under Other Separate Contracts.
(5)	The fluctuation provisions shall be worked out based on the formula as shown on the Guldance Notes for Standard Cost Yardsticks.
(6)	Development contingencies of \$8.703 M for the standard block superstructure and \$8.750 M for non-standard blocks/buildings and elements are included in the Site Development and Construction Costs.
(7)	As informed by APM/A88 on 16.9.2000 that the costs for RCHE are to be wholly charged to Lotteries Fund.
Exclusion	· ·
(1)	Project Management Costs, e.g. professional services & overheads, consultant fees and Consultant Site Staff.
(2)	Costs of RCHE which are funded by Lotteries Fund.
Assumptio	<u>  101                                  </u>
(1)	Nil.
Besla of th	e Budget ;
(1)	Transmittal from Ma Leung to APM/A88 ref. 9821/ftKHA.368 dated 11 July 2000.
(2)	Transmittal from Ma Leung to APM/A88 ref. 9821/HKHA.372 dated 14 July 2000.
(3)	Transmittal from Ma Leung to APM/A88 ref. 9821/HKHA.379 dated 20 July 2000.
(4)	Transmittal from Ma Leung to APM/A88 ref. 9821/HKHA.394 dated 1 August 2000.
(5) (6)	Fax from Lu & Associates to Ma Leung ref. ML/KCE4/98 12(F98) dated 26 September 2000.  Transmittal from Ma Leung to APM/A88 ref. 9821/HKHA.406 dated 14 August 2000.
(7)	Fax from Siu Yin Wai to Ma Leung ref. J349CLT00-055/YWS/bl/kk/pw dated 14 August 2000.
(8)	Fax from Lu & Associates to Ma Leung ref. ML/KCE4/98.12(F) 12) dated 2 November 2000.
Prepared I	oy: Didio W.Y. Kong QS/C3
Date :	3 Navember 2000

1

## Construction Cost Budget No. 15 (Domestic Blocks: Public Rental Housing Portion)

Project: Redevelopment of Kwai Chung Estate Phase 4 (PHDP Code: \_\_\_\_)

Cost at June 2000 Price Level	No. of	Cos	t per Flat	
	No. of Flats	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
1.0 Standard Blocks				
(a) New Harmony Block (Type 1 Option 6, Block No. 10 & 11, 41 Storeys)				
- 1 B Flat - 2 B Flat - 1 P/2 P Flat - 2 P/3P Flat	320 320 318 640 1,598	23,850 31,810 14,850 18,140	243,865 325,380 151,878 185,509	267,715 357,190 166,728 203,649
Cost per Flat x Flat No. = Sub-Total (A) (Total CFA = 73,280 m2)		34,143	\$'000- 349,181	383,324
<u> </u>				(\$5,231/m2 CFA (\$239,877per flat
O Adjustments to Item 1.0 Above		<		
<ul> <li>a) Adjust for foundation to Blks No. 10 &amp; 11 based on apportion piling contract sum</li> <li>b) Ddt. basic carcass of ancillary/welfare facilities in domestic</li> </ul>	oned	14,812	**	14,812
block = 60 m2  Add for domestic portion in carpark podium (797 m2)  Add for DCMBI No. P14/00 & D20/00		(40) 533	(170) 4,036 762	(210) 4,569
Add for DCMBI No. P01/00	.52	-	4,399	762 4,399
Sub-Total (B)		15,305	-00002	
(Total CFA = 74.017 m2)	İ	13,505	9,027	24,332 (\$329/m2 CFA). (\$15,227per flat) % over that calculated on Standard Yardsticks
Non-standard Blocks		<		an School Paromets
Block (Type, Block No		-		
Cost per Flat x Flat No. = Sub-Total C) (Total CFA =m2)		•	-	(S/m2 CFA) (Sper flat)
Development Contingency	<		\$'000	3
All standard blocks superstructure only All non-standard blocks and all standard block elements other superstructure	than	<b>2</b> 35	6,984 451	6,984 451
Sub-Total (D)		-	7,435	7,435 (\$100/m2 CFA) (\$4,653per flat)
Total Cost of Domestic Block - Public Rental Housing Portion at June <u>2000</u> Price Level = (A) + (B) + (C) + (D) (including Provisions for Contract Fluctuations)		49,448	365,643	415,091 (\$5,608/m2 CFA) (\$259,757per flax)

#### Note

The CFA for New Harmony ! Option 6 in this budget is derived from the CFA per unit type stated in June 2000 Yardsticks times the no. of flats per unit type.

onstruction Cost Budget No. 15 ( Domestic Blocks: Public Rental Housing Portion)

ect: Redevelopment of Kwai Chung Estate Phase 4 (PHDP Code: \_\_\_\_)

	T	Cost pe	r Flat	
Cost at June 2000 Price Level	No. of Flats	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
New Harmony Annex Block (Type 5 ,Option 1 , Block No. 12 , 36 Storeys)				
1P/2P Flat	385	17,430	206,710	224,140
Cost per Flat x Flat No. = Sub-Total (A) (Total CFA = 13.013 m2)		6,711	\$'000	86,294 (\$6,631/m2 CFA) (\$224,140per flat)
Adjustments to Item 1.0 Above Adjust for foundation to Biks No. 12 based on apportioned contract sum Add for domestic portion in carpark podium (409 m2) Add for DCMBI No. P14/00, D18/00 & D20/00 Add for DCMBI No. P01/00	1 piling	1,983 273 - -	2,071 461 1,016	1,983 2,344 461 1,016
Sub-Total (B) (Total CFA = 13,422 m2)		2,256	based on	5,804 (\$432/m2 CFA) (\$15,075per flat) 6 over that calculated Standard Yardsticks
Non-standard Blocks  Block (Type , Block No. Storeys)	,	<u>.</u>	\$'000	
Cost per Flat x Flat No. = Sub-Total (C) (Total CFA =m2)	54.	-	-	(S/m2 CFA) (S per flat)
Development Contingency All standard blocks superstructure only All non-standard blocks and all standard block elements of superstructure	ther than	<u>.</u>	1,592 177	1,592 177
Sub-Totai (D)	21 (	-	1,769	1,769 (\$132/m2 CFA) (\$4,595per flat)
Total Cost of Domestic Block - Public Rental Housing Portion at June 2000 Price Level = $(A) + (B) + (C) + (D)$ (including Provisions for Contract Fluctuations)	D)	8,967	84,900	93,867 (\$6,994/m2 CFA) (\$243,810per flat)

<u>e</u>

The CFA for New Harmony Annex 5 Option 1 in this budget is derived from the CFA per unit type stated in June 2000 Yardsticks times the no. of flats per unit type.

Construction Cost Budget No. 15 (Carpark Portion)

Project: Redevelopment of Kwai Chung Estate Phase 4 (PHDP Code: \_\_\_\_)

2		Estimate	T	
Cost at June 2000 Price Level	Space	Foundation	Building	TOTAL
	(No.)	(Incl	(Excl	
		Caps)	Caps)	1
		<		>
1.0 Carpark (Integrated Comm/Carpark)				1
based on Actual Design	į	1	1	
(a) Carpark Portion	ļ		]	1
	256	j		
Private (37 m2 CFA per space)  Motor Cycle (7 m2 CFA per space)		1	-	1
- Motor Cycle ( / m2 CrA per space)	26	1		
	282	6.461	40.550	
	202	6,451	40,803	47,254
(b) Building Services		_	10.104	
			10,194	10,194
(c) Add for DCMBI No. P01/00			586	586
i			300	366
		i		1
		<	-\$'000	>
Sub-total (A) :-		6,451	51,583	58,034
(Total CFA based on Actual Design = 9,657 m2				(\$6,010/m2 CFA)
& Average CFA per carparking space = 34.24 m2)				(\$205,794/ space)
Trivinge of A per earparating space - 34.24 m2)				l
	10	Į		% over that calculated
				on Standard Yardsticks
			\$,000 <del></del>	
2.0 Development Contingency	i	_ [	2,579	8 500
•			4719	2,579
		ſ		
Total Cost of Carpark Portion at June 2000	- 1	6,451	54,162	60,613
Price Level = (A) + Item 2.0	- 1	1	- /,	(\$6,277/m2 CFA)
(including Provisions for Contract Fluctuations)	ı	1	4	(\$214,940/ space)
	- 1	į		(=== ijo io opaco)

3.0 Difference between Actual Design (Item 1.0 above) and Cost Yardsticks/Cost Ceiling/Budget due to the following:  (The price levels of tiem 1.0 and the June Cost Yardstick should be the same)	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
<ul> <li>(a) Add for adjustment on Cost of foundation based on apportioned piling contract sum</li> <li>(b) Add for adjustment based on actual design</li> <li>(c) <u>Ddt.</u> for adjustment to efficiency ratio of carparking space</li> <li>(d) Add for DCMBI No. P01/00</li> </ul>	(751)	8,360 (6,769) 586	1,719 8,360 (7,520) 586

### ionstruction Cost Budget No. 15 (Social Welfare Portion - RCHE)

roject: Redevelopment of Kwai Chung Estate Phase 4 (PHDP Code: \_\_\_\_)

		Estimate	d Cost	
Cost at June 2000 Price Level	CFA	Foundation	Building	TOTAL
	(m2)	(Incl	(Excl	1
	1	Caps)	Caps)	
		<	5'000	>
0 Residential Care Home for Elderly (RCHE)		1		1
				22
			100	
ž.		ł		
) Ancillary/Welfare facilities (no fitting out included)	3,155	2,108	9,794	11,902
	171			
			]	
	İ			Ì
) Basic fitting Out for RCHE		]		
(Total area to be fitted out = $3,155$ m2 CFA)	3,155	-	4,135	4,135
2				
L D TE C DOVE	2.155		4.465	1.165
) Building services for RCHE	3,155	-	4,465	4,465
		}		
Other Adjustments for Item 1.0 Above	Vi			
Other Adjustments for frem 1.0 Above				]
Add for DCMBI No. P01/00		-	504	504
, red tot between the transfer				•••
Development Contingency		×	945	945
			841	
		[		
Total Cost of Welfare Portion at June 2000				
Price Level = Total of Items in 1.0 to 3.0		2,108	19,843	21,951
(including Provisions for Contract Fluctuations)	- 1			(\$6,958/m2 CFA)
			·	

#### te

As advised by APM/A88 on 16.9.2000 that the costs for RCHE are to be wholly charged to Lotteries Fund.

Page 6 of 11

#### marks

Welfare Portion includes the following:

**RCHE** 

3,155 m2 CFA

## Construction Cost Budget No.15 (Welfare Portion - Kindergarten & Nursery)

Project: Re

Redevelopment of Kwai Chung Estate Phase 4 (PHDP Code: \_\_\_\_)

		Fistimat	ed Cost	<del></del>
Cost at June 2000 Price Level	CFA	Foundation	Building	TOTAL
	(m2)	(Incl	(Excl	IOTAL
	1	Caps)	Caps)	
		<	S'000	
1.0 Ancillary/Welfare Facilities				1
in Integrated Domestic / Carpark Building				
			35	ł
(a) Applilation (NV-16 611/4) - (a) State		1		}
(a) Ancillary/Welfare facilities (no fitting out included)	2,632	1,758	8,171	9,929
(b) Fitting Out for Kindergarten		Į.		1
(Total area to be fitted out = $1,946$ m2 CFA)	1,946	21	3,617	7.617
	1 2,5 10	V.50	3,017	3,617
			}	
(c) Building services for Kindergarten	1,946	-	3,972	3,972
	İ			,,,,,,
(D. Tittle Co. C. D.		1		
(d) Fitting Out for Nursery		i	1	
(Total area to be fitted out = $\underline{686}$ m2 CFA)	686	(2)	1,368	1,368
15				
(e) Building services for Nursery	686	25.0	2.000	
(c)	000		2,088	2,088
		•		1
2.0 Other Adjustments for Item 1.0 Above				1
(a) Add for DCMBI No. P01/00		-	351	351
200 1 10 10			-	}
3.0 Development Contingency		-	978	978
				ŀ
-				[ ]
Total Cost of Welfare Portion at June 2000				
Price Level = Total of Items in 1.0 to 3.0	1	1,758	20,545	22,303
(including Provisions for Contract Fluctuations)	- 1	_		,
		ļ	16	(\$8,474/m2 CFA)
				7

### Note

1. As advised by APM/A88 on 16.9.2000 that the costs for Kindergarten and the Nursery are to be wholly funded by HA.

#### Remarks

1. Welfare Portion includes the following:

 Kindergarten
 1,946
 m2 CFA

 Nursery
 686
 m2 CFA

 Others
 m2 CFA

 Total
 2,632
 m2 CFA

nstruction Cost Budget No.		15	_( Welfare & Community - Mutual Aids Community )				
٠.			¥				
gect:	Redevelopment of Kwai Chung Es	tat <del>e</del>	Phase 4_ (PHDP Code:)				

Estimated Cost Cost at June 2000 Price Level **CFA** Foundation TOTAL (m2)(Incl Building (Excl Caps) Caps) \$,000.00 --Mutual Aids Community (MAC) 60 Ancillary/Welfare facilities (no fitting out included) 40 170 210 Fitting Out for Ancillary/Welfare Facilities 60 167 (Total area to be fitted out = 60 m2 CFA) 167 Other Adjustments for Item 1.0 Above Add for DCMBI No. P01/00 17 **Development Contingency** 17 \$,000.00 -40 358 398 **Total Cost of Mutual Aids Community** at June 2000 Price Level = Total of Items in 1.0 to 3.0 (\$6,633/m2 CFA) (including Provisions for Contract Fluctuations)

(Transfer Structures - Commonly Shared Across Phases of the Development and Amongst Various HA Businesses)

Project: Redevelopment of Kwai Chung Estate Phase 4 (PHDP Cod				
		Estimate	d Cost	T
Cost at June 2000 Price Level	00 Price Level	Building	Others	тот
Transfer Plate	based on Actual Design	<	\$,000.00	
_	re below Domestic Blocks il design for last DDRP submission)	26,859		26,8

(a) Transfer structure below Domestic Blocks (As per the detail design for last DDRP submission)	26,859	8	26,859
Sub-total (A)	26,859	-	26,859
2.0 Development Contingency	1,343		1,343
Sub-total (B)	1,343	724 9	1,343
Total Cost of Commonly Shared Transfer Structures at June 2000 Price Level = (A) + (B) (including Provisions for Contract Fluctuations)	28,202	- \$,000.00	28,202

Notes

BForm 8 (22/09/00)

te	Develo	oment	Cost	<b>Budget</b>	No.	15

(Demolition Works)

Redevelopment of Kwai Chung Estate Phase 4 (PHDP Code: \_\_\_\_) oject:

	Estimate	Estimated Cost		
Cost at June 2000 Price Level	Demolition	Others	TOTAL	
•	<	\$,000.00	>	
Estimated Cost for Demolition				
			Ì	
Demolition of existing buildings	5,584		5,584	
(approx. <u>34,624</u> m2 CFA x cost/m2 CFA)				
П				
Sub-total (A)	5,584	_	5,584	
525 5541 (13)	3,50	E.	3,564	
		4.000.00		
Development Contingency	-	- \$,000.00	>	
			1	
•				
			1	
Sub-total (B)	-	-	<u> </u>	
	II.		1	
_ = = =				
	<	- \$,000.00	>	
		-		
Total Cost of Demolition at June 2000 Price Level = (A) + (B) (including Provisions for Contract Fluctuaions)	5,584	•	5,584	
werdowig I 10.1210113 101 Court act I. Increasons)				

### marks:

The Demolition works is under a separate contract and the cost is to be apportioned between Phases 3, 4 and 6 respectively.

The demolition cost of \$5,584,000 is based on the actual Contract Sum for Demolition of Kwai Chung Estate Phases 4 & 8 with the tender return date at Jan 99.

Project: Redevelopment of Kwai Chung Estate Phase 4 (PHDP Code: \_\_\_\_) 12,365 m2; Total CFA= 102,943 m2; Total LAA = 12,197 m2 Total GEA =

	Estima	ted Cost	1
Cost at June 2000 Price Level	Foundation	Building	TOTAL
1			1012
	(Inci	(Exci	ŀ
	(Caps)	Caps)	
		0.000.00	
La a		2,000.00	<del></del>
1.0 External Works based on Actual Design (Incl. Contract Price	1	1	
Fluctuation)	1	1	,
<del></del>	1	1	
4.5 MM 4.8 A 958-4-4A 54 5	1		
(a) Hard Landscape Works (Amenities)	1 -	23,391	1 23,391
(b) Underground Drainage	1 .	9,147	9,147
(c) Others (excluding utility connection)	1	1 '	1 '
(C) Cuers (exclusing many consection)	1 -	2,917	2,917
	i		
	1	1(4	i
	-	5,000,00	<del></del>
M. A. a. a. b.dan		1	<del> </del>
Sub-corn (A)	1 -	35,455	35,455
	1		(3344/m2 CFA)
	1	j	1 .
	1.	1	(\$2,867/m2 GEA)
	<del></del>	00.000,2	
2.0 Special External Works based on Actual Design (Incl. Contract Price Flue	ctuation)	l	1
	T	Í	
		1	1 1
	ì	1	
(a) EVA at carpark podium	4 -	10,748	10,748
(b) Lift Tower	I .	8,121	8,121
(c) Footbridges/staircases	1	1	
		366	366
(d) Noise barrier		1,067	1,067
	1		1 4
	1	1	1 1
	1	1	1 1
10	l .	1	1
	i .	!	1 1
	<	— S,000.00 ——	
Sub-total (B)		20,302	20,302
	1	20,002	
	4		(5197/m2 CFA)
	4	I	(\$1,642/m2 GEA)
·		<b>f</b>	
			<del>                                     </del>
1.0 Development Continues			1
3.0 Development Contingency		2,788	2,788
	4	1	
			1
<u> </u>	<	\$,000,00	
Sub-treet I/O			
Sab-total (C)	· -	2,788	2,788
· ·		i .	(\$27/m2 CFA)
			(\$225/m2 GEA)
	ř	1	(SEEPHILE CLERY)
		<u></u>	<u>.                                    </u>
	· · · · · · · · · · · · · · · · · · ·	\$0.000,Z	· · · · · · · · ·
Total Cost of Commonly Shared External Works at June 2000	l '		1 1
Price Level = (A) + (B) + (C)	0	58,545	58,545
	٧	دمره	
(including Provisions for Contract Fluctuations)			(\$569/m2 CFA)
			(\$4,735/m2 GEA)
	<u> </u>		
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	<del></del>	00,000,2	<del></del> ]
			1
4.0 Cost of Automated Refuse Collection System at June 2000		4314	1 1
		4,313	4,313
Price Level			} I
			1 1
4 0 D			1 1
5.0 Development Contingency	-	216	216
			1
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			<del>                                     </del>
1			1 1
Total Cost of Automated Refuse Collection System at June 2000			1
Price Level - Total of Items 4.0 to 5.0	ſ	4.630	
	-	4,529	4,529
(Including Provisions for Contract Fluctuations)			(\$44/m2 CFA)
· · · · · · · · · · · · · · · · · · ·			(\$366/m2 GEA)
	!		(3300-197 CSV)
	•		
	Estimated	Cost	

	Estimuted	T	
Cost at June 2000 Price Level	Soft Landscape	Fees & Others	TOTAL
6.0 Cost of Other Separate Contracts (Incl. Softlandscaping Work) at June 2000 Price Level	804	643	1,447
7.8 Development Contingency	40	32	72
Total Cost of Other Separate Contracts (incl. Softlandscaping Work) at June 2000 Price Level Price Level = Total of Items 6.0 to 7.0 (including Provisions for Contracts Fluctuations)	844	675	1,519 (\$15/m2 CF/ (\$123/m2 GE/

#### Remarks

The cost for earthworks and the relevant temporary works are as per Ma Leung's advice.
 The cost for ARCS related ductwork and citates are as per Ma Leung's advice.

# Site Development & Construction Cost Budget No. 15 (For PDRC(2) Submission) Redevelopment of Kwai Chung Estate Phase 4

### Estimated Annual Expenditure

-	Estimate	99/00	00/01	01/02	02/03	03/04	Remainder	Total
	<			(\$,000)				>
Demolition	5,584	5,584						5,584
Piling	66,664		19,999	44,665	2,000			66,664
Building	626,137			62,614	244,193	212,887	106,443	626,137
Other Separate Contracts ( Incl. Soft Landscape)	1,542					1,542		1,542
Total	699,927	5,584	19,999	107,279	246,193	214,429	106,443	699,927