

## THE HONG KONG HOUSING AUTHORITY

# Memorandum for the Building Committee

Proposed Master Layout Plan and Project Development Budget for the Redevelopment of Hung Hom Estate Phase 2

#### **PURPOSE**

To seek Members' approval to the proposed Master Layout Plan and Development Budget for the Redevelopment of Hung Hom Estate Phase 2.

#### BACKGROUND

- 2. Hung Hom Phase 2 is part of the overall Hung Hom Redevelopment Programme that comprises of 2 phases. Phase 1 was already completed in August 1999.
- 3. Demolition of existing buildings at Phase 2 was completed in September 2000. Site Formation is in progress and will be completed by August 2001.
- 4. Past events relevant to the project are as follows -

# Date Event

- (a) 23 February 1994 Development Progress Committee approved Planning Brief for Redevelopment of Hung Hom Estate. (DPC 12/94 refers)
- (b) 15 September 1994 Revised Client Brief, Control Plan and Project Estimate of all Phases approved by BC. (Paper No. BC 119/94 refers)
- (c) 30 March 2000 Approval of the Development Parameters and Development Cost Ceiling of Phase 2 by the Strategic Planning Committee. (Paper No. SPC 32/2000 refers).

(d) 27 April 2000

Development Parameters submitted to other departments for comment.

(e) 31 October 2000

Revised Development Parameters were circulated to other departments for further comment. No adverse comment was received.

#### MASTER LAYOUT PLAN

5. The proposed Master Layout Plans attached at **Part I** of **Annex** evolve from the Development Parameters and Conceptual Layout approved by the SPC. The drawings illustrate design main features elaborated as below -

# Planning Context and Building Massing

- (a) The site is located at prime location of Kowloon Peninsula with magnificent view at all directions, in particular the harbour view. The carpark podium is located towards Hung Hom Road serving as noise buffer to the domestic blocks which are set back towards the longitudinal axis of the site to maximize the development potential, sea view for the domestic blocks and to mitigate the traffic noise impact from the public road.
- (b) The site is more than 70% surrounded by industrial buildings and busy public road. A landscape deck, namely, 'Terraced Garden', is introduced between the domestic towers and the carpark podium segregating the pedestrian access from services access by grade. It merges with the carpark podium roof to form a landscaped leisure ground while maintaining natural cross ventilation for the podium.
- (c) The podium deck is designed as a main circulation spine linking pedestrian access from Tai Wan Road from the south western direction, residents' flow to commercial centre at Laguna Grande in the north east, and the KMB stand at Hung Hom Road to the east.
- 6. The development parameters are as follows –

Name : Rede

Redevelopment of Hung Hom Estate Phase 2

Location

J/O Hung Hom Road & Man Yue Street,

Hung Hom

**Existing Use** 

Public Rental Housing

Existing Zoning Residential (Group A)

Proposed Housing Type : HOS

Site Agent (Gross) 1.057 ha.

Flat No. : 1176 (2-bedroom flat : 588

3-bedroom flat: 588)

Total Floor Area (GFA) : 79,275m<sup>2</sup>

Overall Plot Ratio : 7.5

Population 3,763

Parking Provision : 463 private carparking spaces

Retail Provision Nil

Community/ : Nil

Welfare Facilities

#### **SCHEME DESIGN**

7. Drawings attached in **Part I** of **Annex** illustrate the disposition of domestic building blocks, location of accommodation and facilities, vehicular and pedestrian access. The main issues of the proposed Scheme Design are as follows -

# Site Specific Block Design

- (a) The domestic blocks are designed and oriented to maximize the development potential and panoramic view towards the Victoria Harbour to the south east, Lei Yue Mun to the north east and Lion Rock to the north west.
- (b) Domestic blocks entrances for residents are segregated from service vehicles at different level: residents access at the landscaped podium deck level and service access at street level from the service lane at Tai Wan Road.
- (c) The typical floor plan is designed to optimize the flat modules and maximize mechanization in construction process.
- (d) In terms of finishes and cost standard, the new block in principle makes reference to that of the New Cruciform Block (NCB).

# **Environmental Design Considerations**

- (e) The domestic blocks are so oriented and designed to facilitate natural cross ventilation inside the flats, typical lift lobbies, block entrances and at common circulation areas.
- (f) The domestic blocks supported on transfer plates are elevated from the landscaped entrance deck. This draws in fresh wind breeze through the podium roof garden to greet residents entering and leaving their blocks.
- (g) Balconies are introduced for capturing view, achieving better shading effect and ventilation inside the flat (Balconies are introduced in anticipation of exemption for concerned GFA calculation by Building Department in 2001).
- (h) The carpark podium is so designed to facilitate natural cross ventilation. Introduction of the central light well enhances the natural lighting quality to the car parking spaces and also facilitates ventilation.

#### Vehicular Access

(i) The main vehicular access to carpark, emergency vehicular access (EVA) and refuse collection point is located along Tai Wan Road.

## Pedestrian Linkage and Access

(j) The main pedestrian access is from Ma Tau Wai Road. Pedestrian links are provided to KMB stand at Hung Hom Road and the commercial centre at Laguna Grande.

# **Noise Mitigation Measures**

(k) Hung Hom Estate Phase 2 development is affected by traffic noise from Hung Hom Road. Mitigation methods by using the carpark podium as noise barrier and set back of building blocks from major noise sources are adopted. In domestic flats, residual noise mitigation measures are provided by using gasketted windows and provision of air conditioning units.

## Automatic Refuse Collection System (ARCS)

(1) Phase 2 is a small, congested and redevelopment site. It is proposed that ARCS will not be provided in Phase 2 according to Paper No. BC 126/98.

#### LANDSCAPE DESIGN

8. The main issues of the proposed Landscape Design are as follows –

## **Design Objectives**

- (a) To utilize the roof space on the various levels of the carpark podium and to provide views for people at different locations, the approach for a "Terraced Garden" is adopted for this development. Residents on the upper levels will have harbour view towards the south eastern direction and overlook the Hutchison Park across Hung Hom Road while those on the lower levels still have the opportunity of views of a terraced podium.
- (b) Noise generated by the heavy traffic along Hung Hom Road and Man Yue Street is anticipated. This will be mitigated by placing the 4-storey carpark podium at the eastern part of the site. The noise generating activities will be placed at the far end of the podium to minimize nuisance caused to the residents. The rest of the landscaped areas will cascade down from the upper podium. Together with lush planting, a tranquil environment is created for the residents' enjoyment.
- (c) A water pool and cascade will be provided to add interest to the space at the entrance level. The cascade will mask the city noise and bring the cooling effect of water into the garden.

# **Open Space Arrangement**

(d) A series of open spaces will accommodate the facilities for different age groups, e.g. ball courts, children's play area, fitness trail, tai-chi area, chess area and sitting-out area. The open spaces will be defined by the use of feature walls, paving, lighting, pergola, planting, etc.

- (e) The main pedestrian entrance will be from Wai Wan Lane while a secondary access will be from Man Yue Street. The space in front of the building forms two quiet courtyards. Feature plants and water feature will be placed in the courtyards to create different atmosphere, yet retaining their unity by using similar design and materials.
- (f) Most of the active recreational facilities like ball courts and children's playgrounds will be placed at the eastern part of the upper podium to minimize nuisances. Seats under shade will be provided close to these areas.
- (g) The passive recreational facilities like chess area, tai-chi area and sitting-out area will be distributed at the various levels of the carport podium. These areas will be enhanced with seat benches, trees and shrubs for shade and screening, all adequately lit at night-time. The cascade on the 2nd level and the water feature at the ground level will unify the various landscaped podium.

## **Soft Landscaping**

(h) Large amount of planting will be used on the podium and along the parapet wall of the carport decks to soften the building lines and to improve visual quality. Different combination of plant materials is used to define different areas so that each area will have its own character. Entrance courtyards and focal areas will be highlighted by feature plants of vivid-colour species. Ornamental species will be used at most area to provide variety of colours and interest all year round.

# PROJECT DEVELOPMENT BUDGET

9. Based on the proposed Scheme Design, the total Project Development Budget for the development is estimated to be \$888.411M. The key elements are as follows—

	Cost Heads	Work Elements	\$M
(a)	Site Development Cost	Site Formation Demolition	- 5.862
		Sub-total:	5.862
(b)	Construction Cost	Foundation Building Soft Landscape and Others	69.855 699.968 1.986
		Sub-total:	771.809
(c)	Other Project Costs [2% on (a) & (b)]	Civil engineering and geotechnical studies, site investigation, material testing and the like	15.553
(d)	Total site Development & $(a) + (b) + (c)$ :	Total site Development & Construction Cost	
(e)	Project Management Cost [12% of (d)]	Professional Services and Overheads, Consultation Fees and Consultant Site Staff	95.187
(f)	Project Development Budge	et [(d) + (e)] :	888.411

Note: Development contingencies of \$35.175M for non-standard blocks/buildings and elements are included in the Site Development and Construction Costs. These contingencies are allowed in accordance with Paper No. SPC 45/2000 to cover for unforeseen development risks and change in clients' requirements.

# 10. The relative costs based on the Master Layout in comparison with that to the approved Project Development Cost Ceilings are as follows –

	(a)	(b)	(c)	(d)	(e)	(f)
	Project	Project	Project	Unit	June 2000	June 2000
	Development	Development	Development	Construction	Construction	Construction
	Cost	Cost Ceiling	Cost Ceiling	Cost	Cost	Cost
	(\$/m² CFA)	(\$/m² CFA)	updated to	(\$/m² CFA)	Yardsticks	Yardsticks
			June 2000		(\$/m² CFA)	Adjusted to
			Cost		-	Tender-in
			Yardsticks			Date
			(\$/m² CFA)			(\$/m² CFA)
Domestic	8,879	10,699	8,882	6,181	5,336	5,619
(HOS)					(NCB)	(NCB)
Private Carpark	6,662	8,348	7,234	4,861	4,095	4,300

Note: For comparing with Construction Cost Yardstick, external works, soft landscaping and other sundry costs such as drainage, utility connections etc. have been excluded from the Unit Construction Cost.

- The main reasons for the increase of proposed cost over the June 2000 Construction Cost Yardstick prices for NCB are as follows -
  - (a) Deep and more complicated foundation due to difficult ground condition.
  - (b) Extra costs for refuge floor construction and building services installation.
- 12. The Project Development Costs are below the Project Development Cost Ceilings approved by the Strategic Planning Committee vide Paper No. SPC 62/2000.
- 13. The Project Development Cost for the domestic (HOS) buildings can be further broken down into cost per flat as follows –

Flat Type	Project Development Cost Per Flat (\$)	Construction Cost Per Flat (\$)	June 2000 Construction Cost Yardstick (\$)	June 2000 Construction Cost Yardstick Adjusted to Tender-in-Date (\$)
2B	555,381	386,622	333,767	351,468
3B	770,697	536,511	463,165	487,729

Note: External works, soft landscaping and other sundry costs such as drainage, utility connections, etc. have been excluded from the Construction Cost per Flat in comparison with the Construction Cost Yardstick.

Detail cost information are in Part II of the Annex.

#### **AVAILABILITY OF FUNDS**

14. The estimated yearly expenditure of the proposed Budget is shown below and would be included in the next capital budget updating of the Authority –

	Estimated Yearly Expenditure (\$/M)					
	2000/01	2001/02	Post 2001/02	Total		
Allowed in FC 2/2000	6.768	56.369	675.310	738.447		
Estimate based on	6.027	28.600	853.783	888.411		
Proposed Budget						

15. Additional expenditure after 2001/02 will be covered by adjustment in the 2001 budget submission to the Finance Committee.

#### DEVELOPMENT PROGRAMME

16. The key dates for the development programme are as follows –

(a) Master Layout Plan	PDRC	11/00
(b) Master Layout Plan	BC	01/01
(c) Detailed Design	DDRP	06/01
(d) Piling	Commencement	11/01
	Completion	11/02 (12 months)
(e) Building	Commencement	11/02
	Completion	11/05 (36 months)

#### **RECOMMENDATION**

17. It is **recommended** that the proposed Master Layout Plan and Project Development Budget of \$888.411M for the Redevelopment of Hung Hom Estate Phase 2 as described above and in the **Annex** to this Paper be approved.

# **DISCUSSION**

18. At the next meeting of the Building Committee to be held on 18 January 2001, Members will be invited to approve the recommendation in paragraph 17 above.

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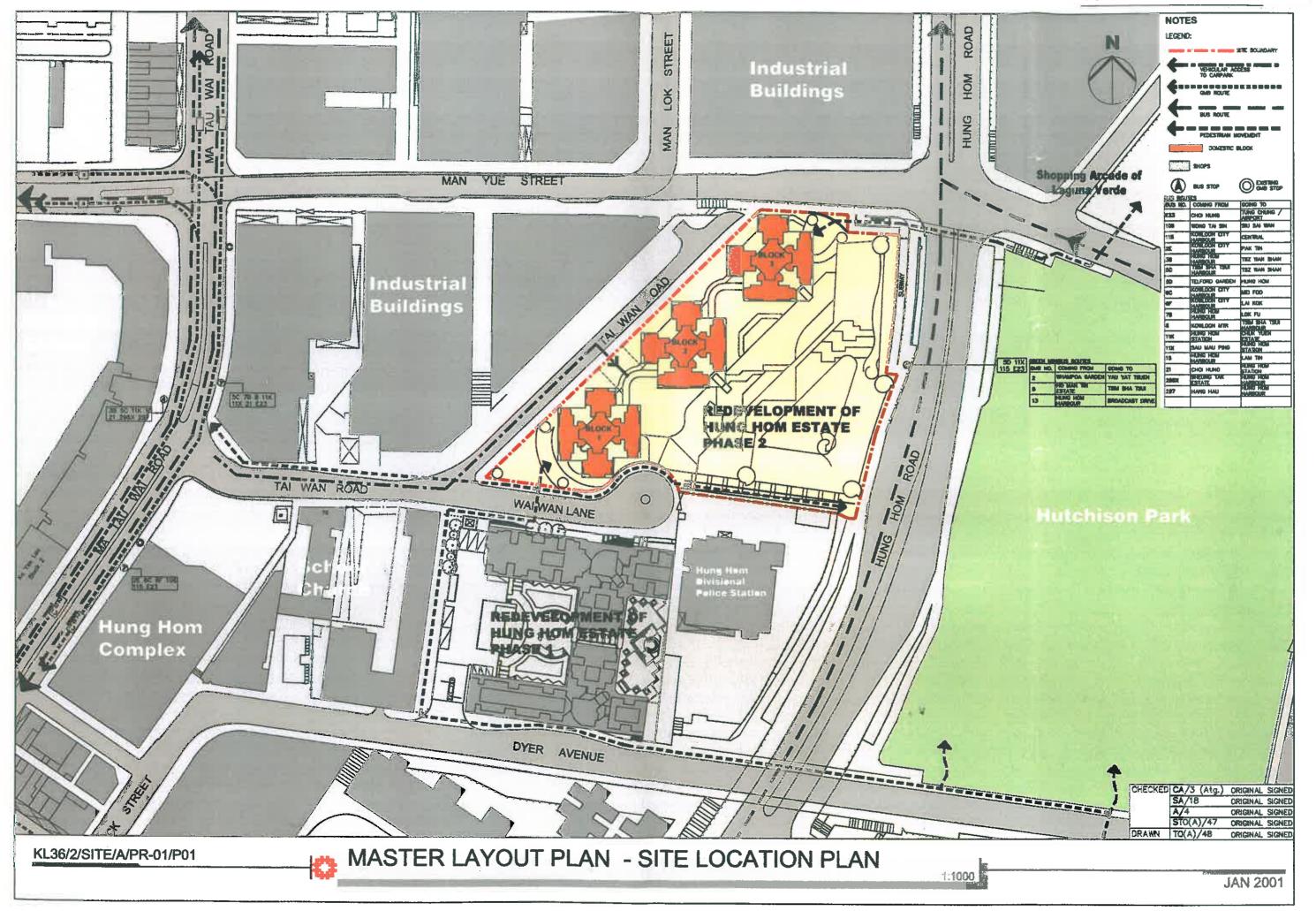
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# Part I of Annex

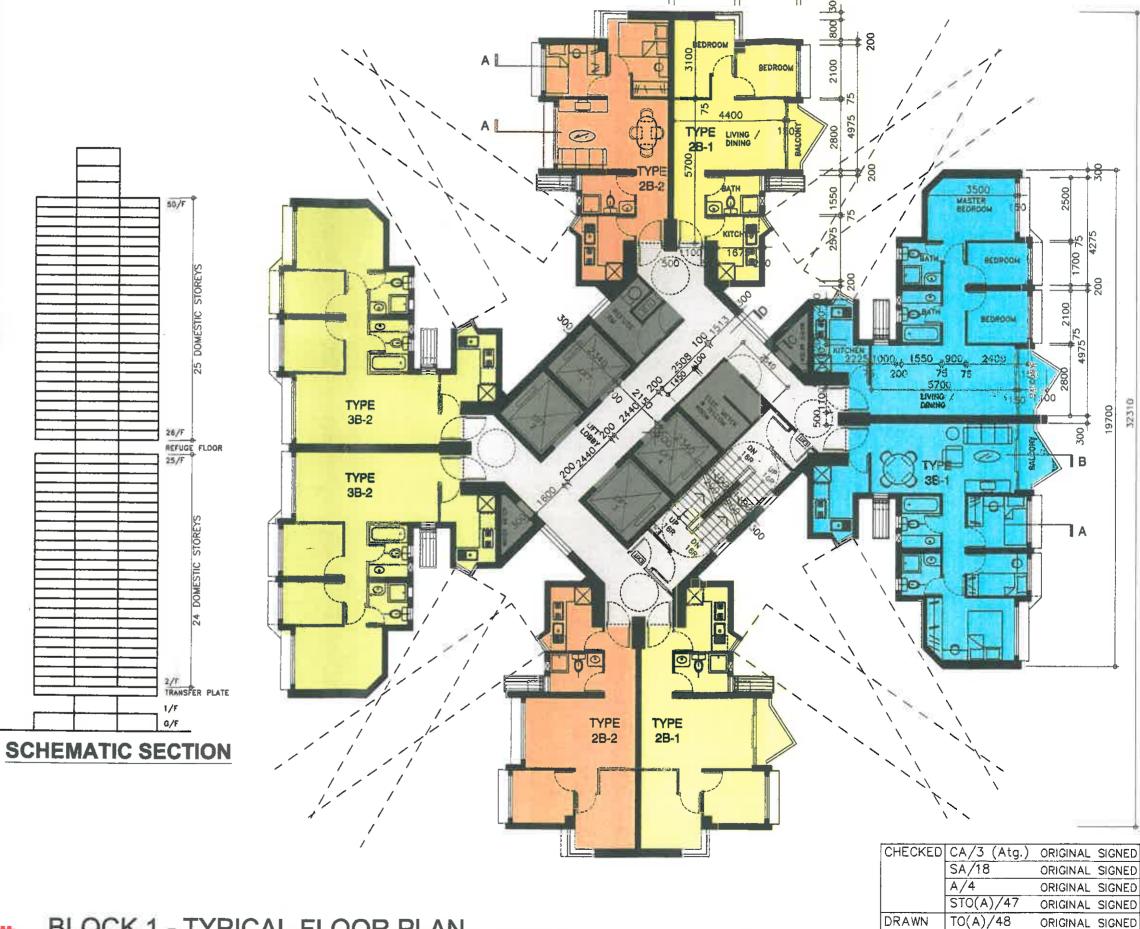
# **Scheme Design Concept**

- 1. Site Specific Design Approach for Maximization of Development Potential.
- 2. Full utilization of Site Opportunities for capturing panoramic harbour view.
- 3. Setting of Domestic Towers and Carpark Podium to mitigate traffic noise impact from surrounding public road
- 4. Segregation of pedestrian and vehicular access by grade with block entrance lobbies on landscaped deck linking directly to a 'Terraced Garden' on top of carpark podium.
- 5. Domestic block layout to optimize flat modules and maximize mechanization in construction process.
- 6. Environmental Enhancement
  - Building outlook I site specific and is in harmony with surroundings.
  - Specific integrated design for open space.
  - Introduction of balconies and shading fins at domestic flats to minimize solar heat gain and environmental noise.



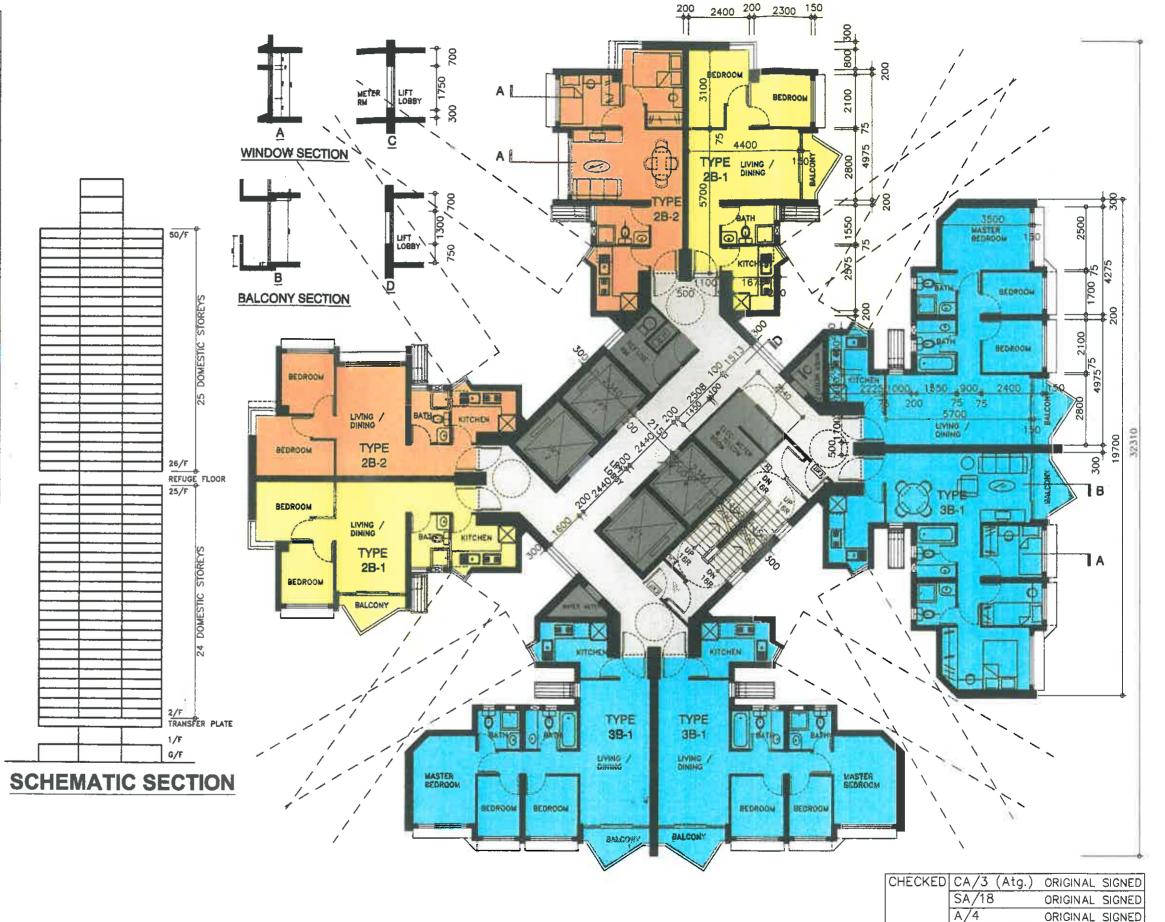
# Part I of Annex

	CHEDU	JLE			
SITE AREA (sq.m)	G.F.A	. (sq.m)	PLOT RATIO	NO. OF FLATS	NO. OF CAR PARKING
10,570	79,27	5	7.5	1176	463
FLAT MIX				. J	
TYPE	FLAT SIZE (sq.m) IFA		(COMPARED W/ NCB)	NUMBER	FLAT MIX
2 BED	36.9		32 - 40	588	50 %
3 BED	51.2		49 - 54	588	50 %
	TOTA	L		1176	100 %
FLAT		GFA (sq.m)	IFA (sq.m)	SFA (sq.m)	EFFICIENCY
1 5/11				4	EFFICIENCY
2B-1 (w/ balcony)				4	EFFICIENCY
		(sq.m)	(sq.m)	(sq.m)	
2B-1 (w/ balcony)		(sq.m)	(sq.m)	(sq.m) 46.6 x 2	
2B-1 (w/ balcony) 2B-2 (w/o balcony)		(sq.m)	(sq.m) 37.6 x 2 37.6 x 2	(sq.m) 46.6 x 2 43.9 x 2	



2400 200 2300 150

DEVELOPEMENT S	CHEDI	JLE			
SITE AREA (eq.m)		. (sg.m)	PLOT RATIO	NO. OF FLATS	NO. OF CAR PARKING
10,570	79.27		7.5	1178	463
FLAT MIX			}	1	1
TYPE		AT SIZE (COMPARED NUMBER W/ NCB)		FLAT MIX	
2 SED	36.9		32 - 40	568	50 %
3 9ED	51.2		49 - 54	588	50 %
	TOTA	VL.		1176	100 %
FLAT	NS FO	GFA (sq.m)	IFA (sq.m)	(NON-STAND SFA (sq.m)	ARD BLOCK)
FLAT	NS F	GFA (sq.m)	iFA (sq.m)	SFA (sq.m)	EFFICIENCY
	NS F	GFA	iFA	SFA	······································
FLAT 2B-1 (w/ balcony)	NS F	GFA (sq.m)	iFA (sq.m) 37,6 x 2	SFA (sq.m)	EFFICIENCY
PLAT  2B-1 (w/ balcony)  2B-2 (w/o balcony)	NS FO	GFA (sq.m)	iFA (sq.m) 37.6 x 2 37.6 x 2	SFA (sq.m)  46.6 × 2  43.9 × 2	EFFICIENCY
2B-1 (w/ balcony) 2B-2 (w/o balcony) 3B-1 (w/ balcony)		GFA (sq.m)	37.6 x 2 37.6 x 2 37.6 x 2 52.0 x 4	SFA (sq.m)  46.6 × 2  43.9 × 2  63.1×4  433.4	EFFICIENCY
2B-1 (w/ balcony) 2B-2 (w/o balcony) 39-1 (w/ balcony) TOTAL/FLOOR	СОМЕ	GFA (sq.m)	iFA (sq.m)  37.6 x 2  37.6 x 2  52.0 x 4	SFA (sq.m)  46.6 × 2  43.9 × 2  63.1×4  433.4	EFFICIENCY



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**BLOCK 2&3 - TYPICAL FLOOR PLAN** 

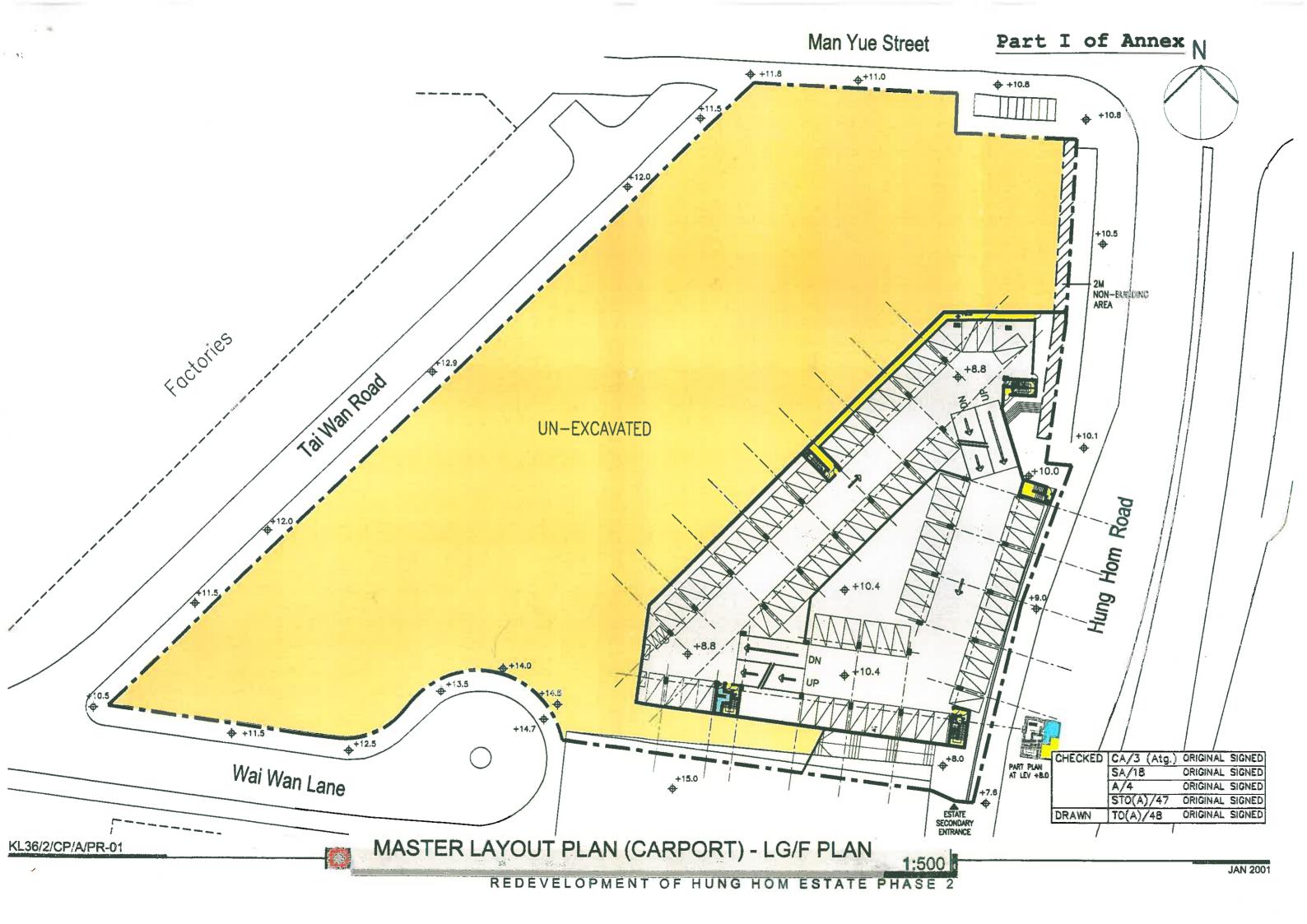
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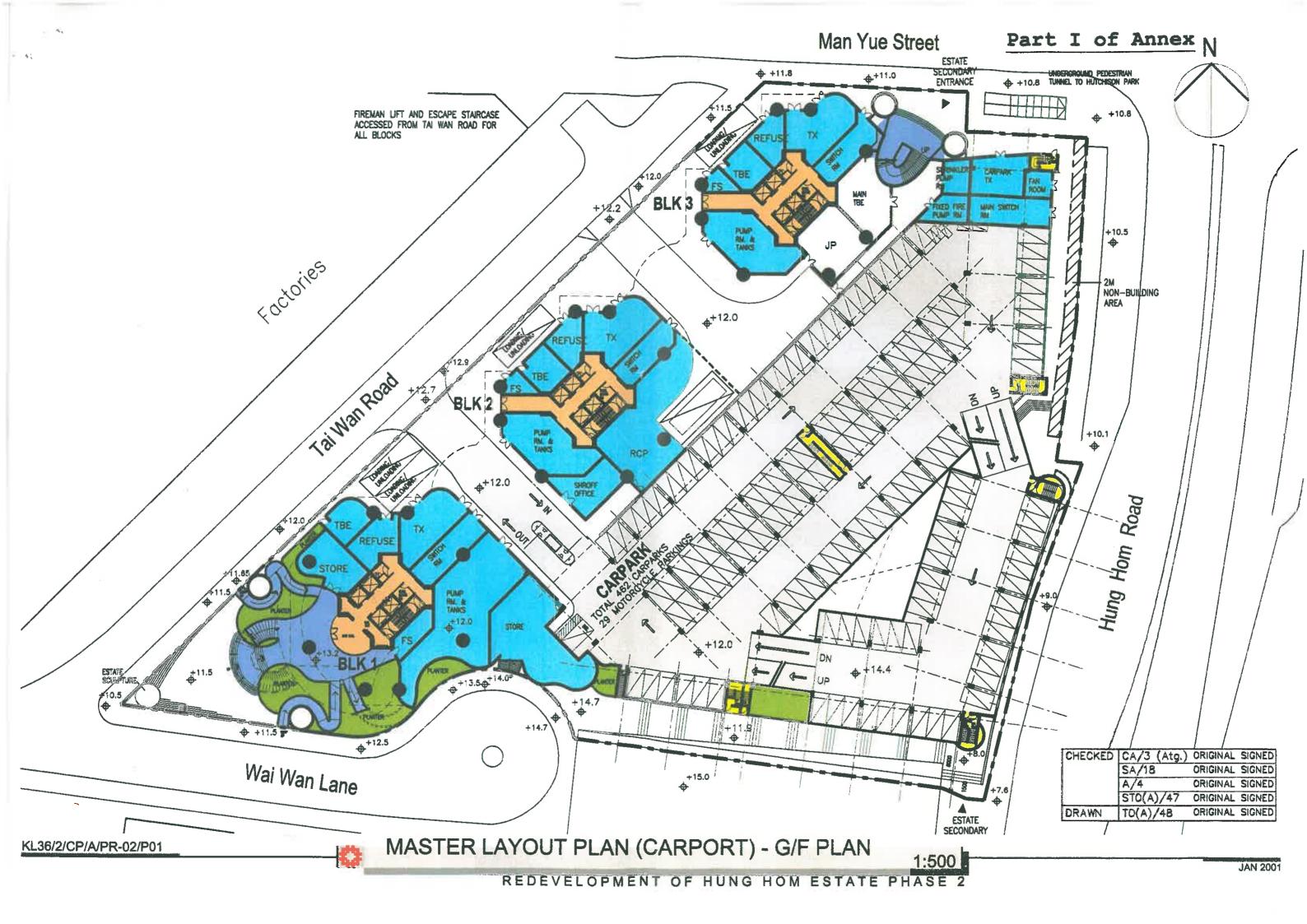
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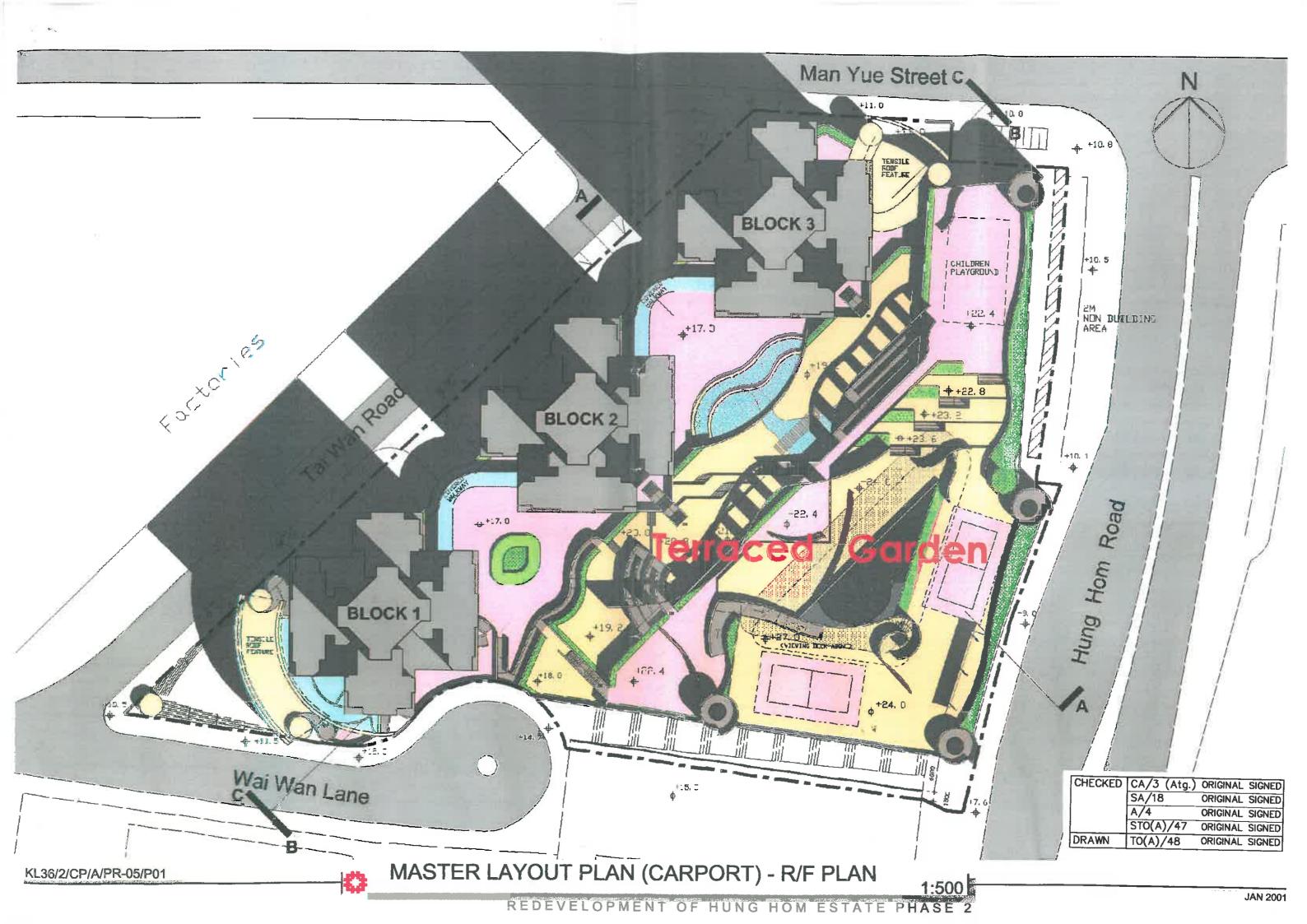
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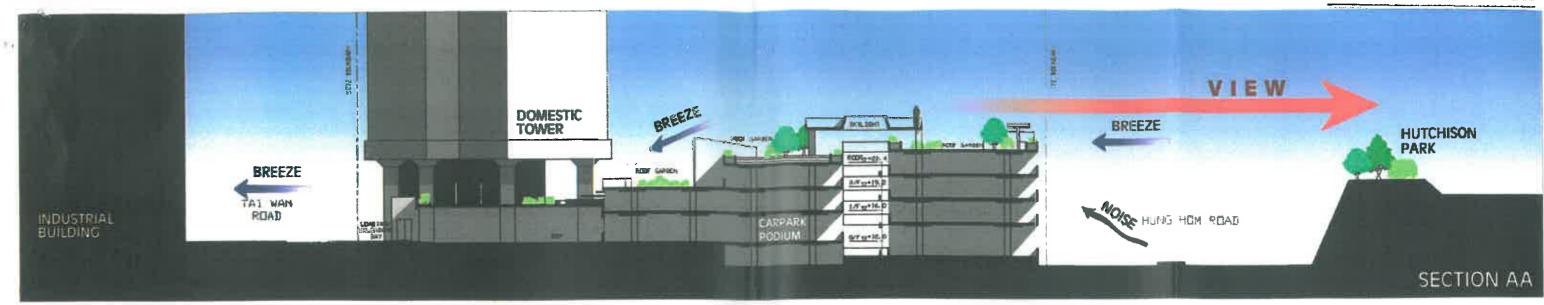


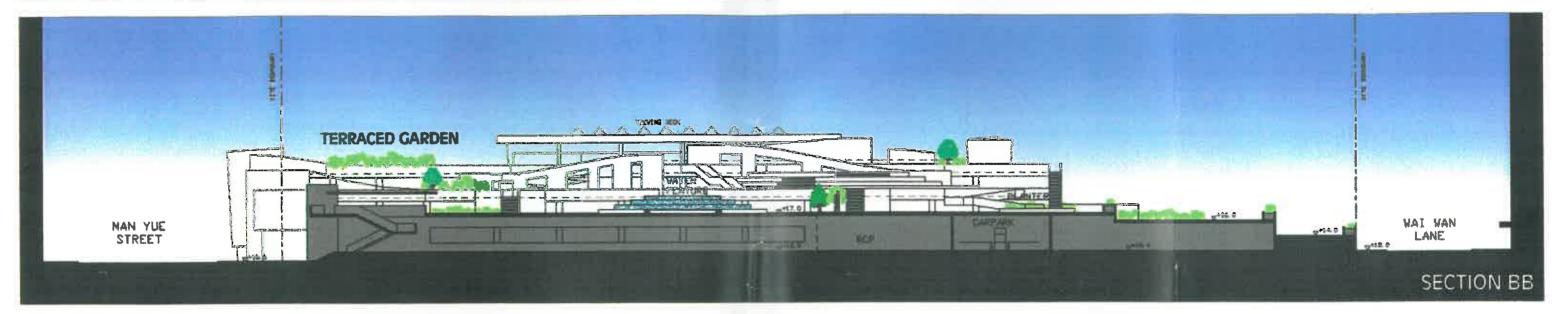


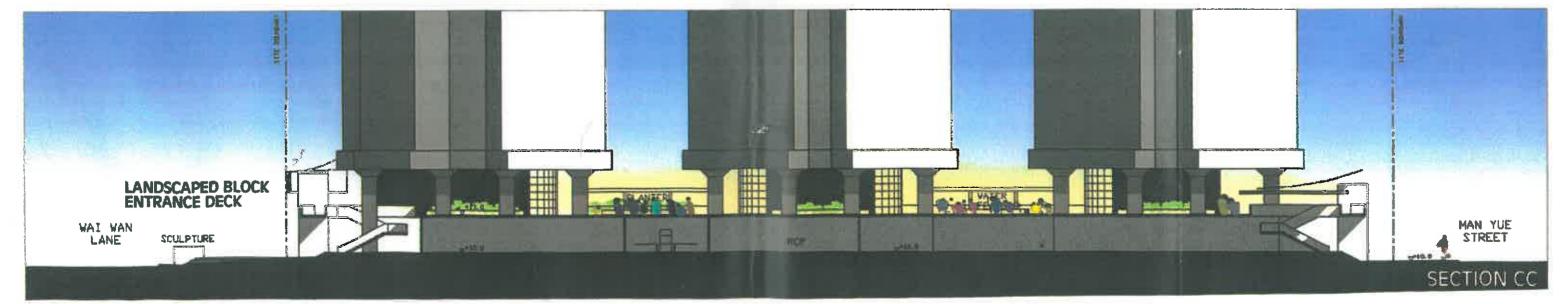












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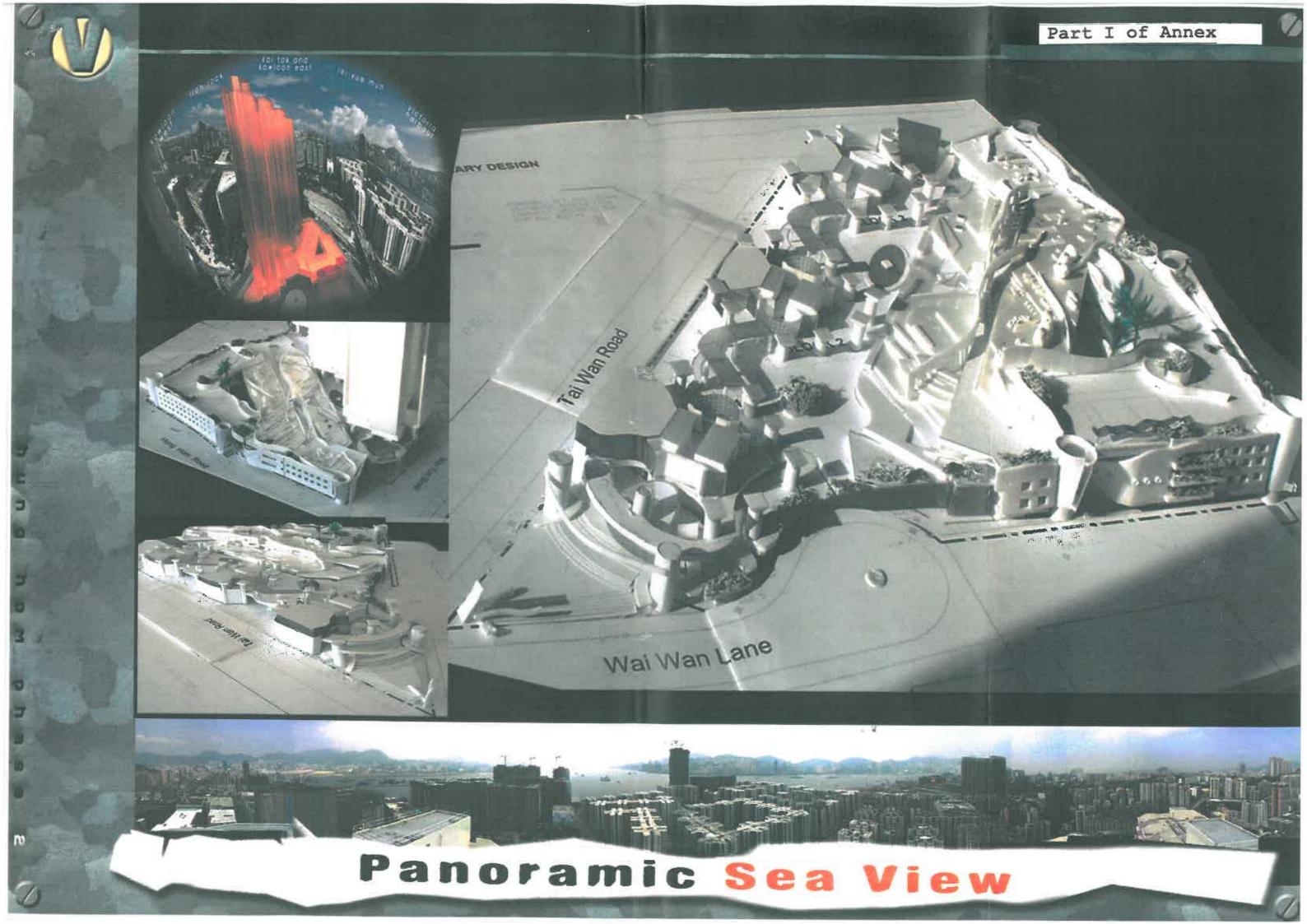
MASTER LAYOUT PLAN (CARPORT) - SECTIONS

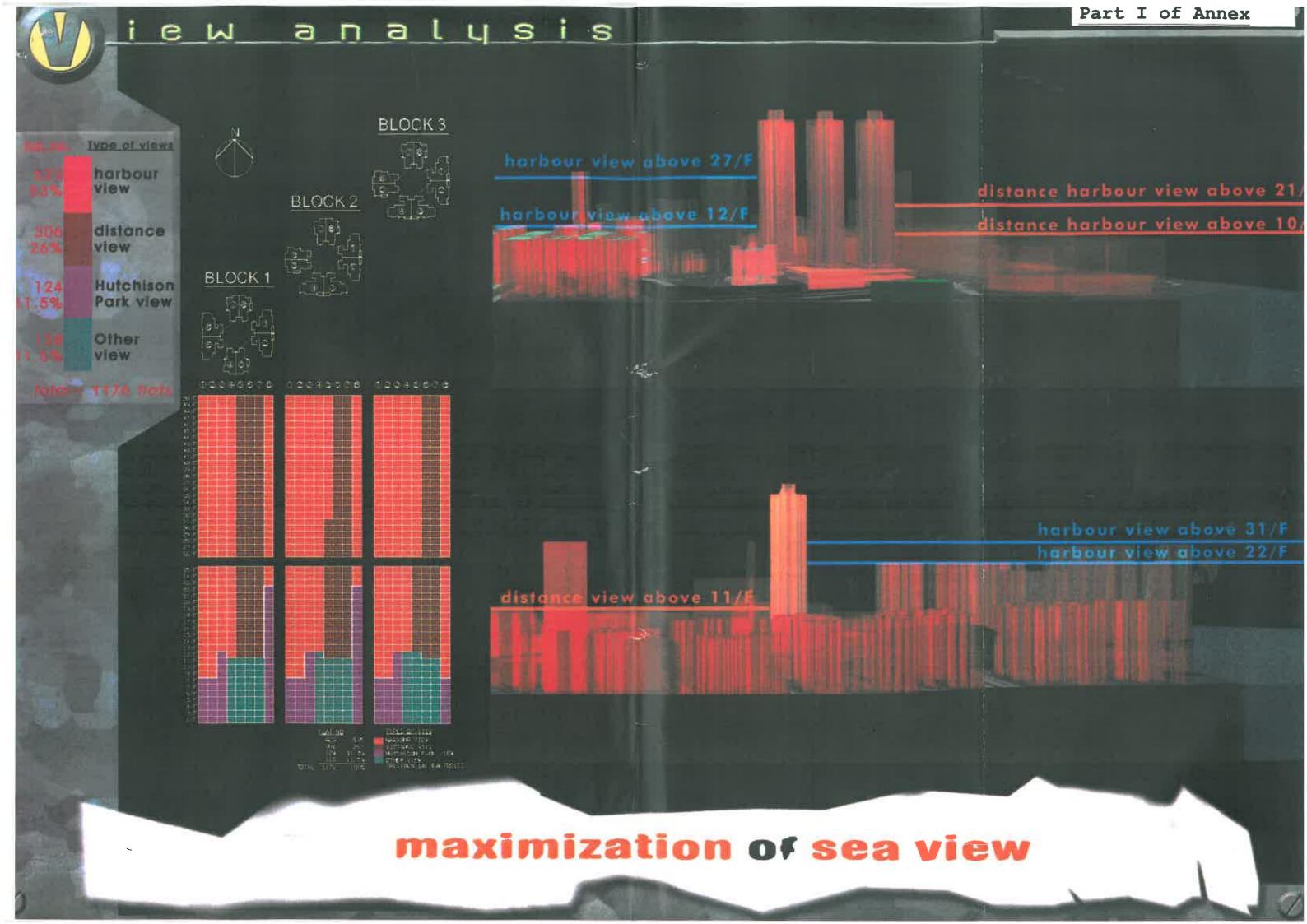
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JAN 2001

REDEVELOPMENT OF HUNG HOM ESTATE PHASE 2





PHASE 2

# ANALYSIS OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 4 (For Financial Viability Assessment Purpose)

PROJECT : Redevelopment of Hung Hom Estate Phase 2 PHDP Code :

Budget Costs (incl. common elements				COST PO	ORTIONS		<del></del>		T
apportioned across all phases within the Whole Development Site)	PRH	HOS	RP	СР	WEL	PTI	UN	GN	Total
A. Phase 2 (Budget no. 4 )	m²	m²	m²	m <sup>2</sup>	m <sup>2</sup>	m²	m <sup>2</sup>	m	2
CFA of Cost Portions (m2)		87.815		15,555			570	111	m <sup>-</sup> 103,940
				Estir	nated Cost	in \$.000	1 210		103,940
1.0 Site Development Costs 1.1 Demolition 1.2 Site Formation		4,953	·	877			32		5,862
2.0 Construction Costs 2.1 Foundation (incl. caps) 2.2 Building (incl. building services) 2.3 Transfer Structures 2.4 External Works 2.5 Automated Refuse Collection System 2.6 Public Transport Interchange 2.7 Other Separate Contracts (Incl. soft landscape)		66,450 551,577 15,834 41,370		2,974 76,423 2,805 7,328 - - 297			431 4,260 103 269 - - 11		69,855 632,260 18,741 48,967 - 0 1,986
3.1 Other Project Costs  3.1 Other Project Costs		13,637		1,814			102		15,553
Budget of Phase 2 (Budget no. 4 ) Projected to Date of Tenders (A) Unit Cost in terms of \$/m2 CFA):-		695,499 7,920		92,518 5,948			5,208 9,137		793,224 7,632

#### Legend for Cost Portions:

PRH - Public Rental Housing

RP - Retail shops

PTI - Public Transport Interchange

HOS

Home Ownership Scheme

WEL

Welfare Facilities

CP - Private Car Carpark
UN - Unallocable

GN \_

Government Non-reimbursable

#### Notes:

- (1) All prices are at June 2000 price level and adjusted for tender price inflation to tender in dates of contracts based on 1.2% per annum from June 2000 to December 2000 and 3% per annum from January 2001 onwards.
- (2) Special External Works cost comprises both foundation and building costs of those items classified as special external works included in building contract.
- (3) Apportionment of the Site Development and Construction Costs are in accordance with the existing cost apportionment guidelines set out in relevant DCMBI.
- (4) Development Contingencies are set at 2% for all standard blocks superstructure and 5% for all non-standard blocks and all standard block elements other than superstructure.
- (5) Other Project Costs (e.g. traffic and environmental studies, land surveying studies, site potential and other engineering studies, site investigation, geotechnical advisory services, construction material test, piling test carried out by direct testing contractor, etc.) are set at 2% on the Site Development Costs, Construction Costs and Development Contingencies.

#### Exclusions:

(1) Project Management Costs, e.g. professional services & overheads, consultant fees, etc.

#### Basis of the Estimate:

Refer Summary Sheet of each Phase

Prepared by:

Michael W.K. Ching

D.G.Jones & Partners (HK) Ltd.

Date:

16 December 2000

#### SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 4

PROJECT: Redevelopment of Hung Hom Estate Phase: 2 PHDP Code:

	COST HEADS	WORK ELEMENTS	BUDGET COST (SM)
(a)	Site Development Cost	Site Formation	-
		Demolition	5.862
		Sub-total:	5.862
(b)	Construction Cost	Foundation	69.855
		Building	701.118
		Other separate contracts	0.836
		Sub-total:	771.809
(c)	Other Project Cost (2% on (a) & (b))	Civil engineering and geotechnical studies, site investigation, material testing and the like	15,553
(d) .	8 7	Total Site Development and Construction Cost $(a) + (b) + (c)$ :	793.224

#### Notes:

- (1) All prices are at June 2000 price level and adjusted for tender price inflation to tender in dates of contracts based on 1.2 % per annum from June 2000 to December 2000 and 3% per annum from January 2001 onwards.
- (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 are 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 boundaries under separate contracts but charged to the project are grouped under Other Separate Contracts.
- (5) The fluctuation provisions is worked out based on the formula as shown on the Buidance Notes for Standard Cost Yardsticks.
- (6) Development contingencies of \$35.175 M for non-standard blocks/buildings and non-standard elements such as civil engineering works (site formation, slope protection, etc.) demolition, foundation, external works and underground drainage, etc. are included in the Site Development and Construction Cost.

#### Inclusions:

Excl	mein	20.00	
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- (1) Project Management Costs, e.g. professional services & overheads, consultant fees and Construction Site Staff.
- (2) Publicity cost, financing and legal costs/expenses, etc.

#### Assumptions:

Basi	s of	the	Bud	get	:

(1) Please refer to Phase Summary.

Prepared by	Michael W.K. Ching	D.G. Jones & Partners (HK) Ltd.
Date :	16 December 2000	

# SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 4

PHASE 2

PROJECT : Redevelopment of Hung Hom Estate PHASE: 2 PHDP Code: COST PORTIONS Common Items PRH HOS CP WEL PTI UN GN TŠ EW Total CFA of Cost Portions (m2) 87,815 15.555 570 103,940 COST ITEMS Estimated Cost In \$,000 A. Site Development & Construction Cost Budget At June 00 (Excluding Fluctuations & Tender Price Inflation) 1.0 Site Development Costs L.I Site Formation Contract 1.2 Demolition Contract 4.953 877 32 5.862 2.0 Construction Costs 2.1 Foundation Contract (incl. site formation & caps) 64,766 2,899 420 0 68,085 2.2 Building Contract 2.21 Building (excl. building services) 430,914 64,269 3,367 2.22 Building Services 498,550 91.413 8,101 2.23 External Works for commonly shared elements 100.181 2.24 External Works for Specific Businesses 46,370 46,370 2.25 Automated Refuse Collection System 2.26 Transfer Structures 17,747 17,747 2.3 Other Separate Contracts (incl. Sofitlandscape) 1,881 1,881 Cost Budget At June 00 Price Level (A) 592,046 76,146 4,486 17,747 48.251 738.676 Site Development & Construction Cost Budget At June 00 (luct. Tender Price Inflation) ( Cost in Item (A) plus Cost x (v), (w), (y) or (z) ) Contract 1.0 Site Development Costs Total (S'M) 1.1 Site Formation Contract 1.2 Demolition Contract \$5.862 4.953 877 32 5,862 1.0 Construction Costs 2.1 Foundation Contract (incl. Site formation & caps) \$69,855 66,450 2.974 431 69.855 2.2 Building Contract \$699.968 2.21 Building (excl. building services) 455.045 67,86B 3,556 2.22 Building Services 526,469 96,532 8,555 2.23 External Works for commonly shared elements 704 105,791 2.24 External Works for Specific Businesses 2.25 Automated Refuse Collection System 48,967 48,967 2.26 Transfer Structures 18,741 18,741 2.3 Other Separate Contracts (Incl. Softslandscape) \$1.986 1.986 1,986 \$777.671 Cost Budget To Proposed Dates Of Tenders 622,980 80,274 4,723 50,953 777,671

T	<del></del>	<del></del>	
Types of Contract Site Formation	Truder in Dates Adjustment for m	iontha after Jun 60	
Demolition		s x 1.2 % / 12 Months x 3 % / 12 = (v)	į
Foundation (incl. caps)		$8 \times 1.2 \% / 12                                $	
Building & Footing [ for inflation adjustment, "External Works", "Others", etc.,		$3 \times 1.2 \% / 12 8 \text{ Months x } 3 \% / 12 = 0.02600 $ (y)	1
Tender-In Dates to be taken the same as "Building")	Aug 2002 6 Month	1 x 1.2 % / 12 20 Months x 3 % / 12 = 0.05600 (-)	

For the basis, exclusions and notes of this Cost Budget, please refer to information shown on Page 2.

PHASE 2

#### SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 4 (cont'd)

PROJECT : Redevelopmen	it of Hung Hom Estate	PHASE: 2 P	HDP Code:					
							19	
Legrad for Cost Portions:  PRH - Public Rental Housin,  HOS - Home Ownership Sch  RP - Retail shops  WEL - Welfare Facilities			CP PTI TS EW	# 12 28	Private Car Carpark Public Transport Interchange Transfer Structure External Works	ON ON	Unsilocable Government Non-r	elmburgable
from June 2000 to Decemb	price level and adjusted for te ver 2000 and <u>3%</u> per amount fro struction Costs are in accordan	m January 2001 onw	rards.					
(-, -, -, -, -, -, -, -, -, -, -, -, -, -		and the caseing t	not appoint connects Edit	IEMINES SEL UL	W IN LESSAUR DOWNS			
Inclusions :							F 5	
<del></del>			1		12			20
Exclusions: (1) Project Management Costs	, c.g. professional services & c	wetheads, consultant	fees, etc.	. 3.7	4	ii a		
Assumutions:	. :		.'. ',	4				
(1) The finishing standard of the (2) There is a bathroom in 3B	he non-standard design domest flat master bedroom	ile blocks is similar to	NCB	Į.		. ,	6	32.1
	ed in the following documents:		Œ	V				
Preliminary drawings     Building Services Cos     Preliminary foundation	cived from APMP6 on 15/11/ and CFA calculation received at Estimation received from PB a design received from Wong a ign received from Wong & Ou	from SA/18's team of ISE/C46 on 13/11/00 & Onyang on 8/11/00				£		
finishing schedule reco	eived from SA/18 on 14/8/00 50,000 lss srequired as confirm		Enginner					
(2) - There is no retail shop	s on this project as confirmed i	by A/4 .	5					
		1	5					
Prepared by :	Michael W.K.Ching	D.G. Jones	& Partners (HK) Ltd.					
Date:	16 December 2000	1/1		•				

PART II OF ANNEX

			_	_
5 Y	DIE A	ET.	7	
	F 13/1	20	4	

Construction Cost Budget No. 4 (Domestic Blocks: HOS Portion)

Project: Redevelopment of Hung Hom Estate Phase 2 (PHDP Code: \_\_\_\_)

		Petimate	d Cost	
Cost at June <u>00</u> Price Level	No. of Flats	Sile Form. & Foundation (Incl. caps)	Building (Excl. Csps)	TOTAL
1.0 Stundurd Blocks				
(NA as all non-standard blocks)				
Cost per Flat x Flat No. = Sub-Total (A) (Total CFA =m2)	··			(5 /m2 CFA) (S per flat)
Z.O Adjustments to Item 1.O Above				
Cost per Flat x Flat No. = Sub-Total (B) (Total CFA =m2)				(S /m2 CFA) (S per flat)
3.0 Non-standard Domestic Blocks				
(a) 3 No. Non-standard Domestic Blocks  Average CPA per Flat		61,682	454,004	515,686
2B Flat 62.52 m2 3B Flat 86.80 m2	588 588 1,176			
220				
Cost per Flat x Flat No. = Sub-Total (C)			s,000.00	
(Total CFA = <u>87,815</u> m2)		61,682	454,004	515,686
				(\$5,872/m2 CFA) (\$438,509 par Fial)
4.0 Adjustments to litem 3.0 Above			00,000,2	
(a) Adjust for extra costs due to construction of blocks of (b) Add costs for Room Coolers provided to all demestic (c) Add pasts for from well gasketted windows to all dor (d) Add cost for wind tunnel test	: flats	-	23,662 16,415 2,823 550	23,662 16,413 2,823 550
Sub-Total (D	)	0	43,450	43,450
-				(\$495/m2 CFA) (\$36,947 per Flat)
5.0 Development Contingency			-00.000,2-	
(a) All standard blocks superstructure only (b) All non-standard blocks and all standard block elements superstructure	arts other than	- 3,084	24,873	27,957
Sub-Total Œ	)	3,084	24,873	27,957
Total Cost of Domestic Block - Home Ownership 5 Portion at June 00 Price Lavel = (A) + (B) + (C) + (including Provisions for Contract Fluctuations)	Scheme + (D) + (E)	64,766	522,327	587,093 (\$6,686m2 CFA) (\$499,229 per Flat)

P.02

# PART II OF ANNEX

Construction Cost Budget No. 4 (Unallocable Portion)

PHAS

Redevelopment of Hung Hom Estate Phase 2 (PHDP Code: \_\_\_\_) Project:

		Estimate	d Cost	
Cost at June <u>00</u> Price Level	CFA	Site Form &	Building	TOTAL
	(m2)	Foundation	(Excl.	
		(Incl. caps)	Caps)	
1.0 Ancillary Facilities in Domestic Block		<b></b>	\$'000	
2.0 ZMEDIAL V PACIFICES IN DOMESTIC DIOCK				
(a) Ancillary facilities (no fitting out included)	570	400	2,280	2,680
(b) Fitting Out for Ancillary/Welfare Facilities	570			
(Total area to be fitted out = 570 m2 GFA @ \$2,740	570 /m2 CEA)	S#35	1,562	1,562
(1000 000 11100 000 000 000 000 000 000				
2.0 Other Adjustments for Item 1.0 Above	= x,57	g <sup>22</sup>		
The Man 187 of				;
2 Mar 4 Mars				
3.0 Development Contingency		20	192	212
est modification				}
n mile na	2			
	9	5 5 5		
Total Control of the	7		-9	
Total Cost of Ancillary/Welfare Portion at June <u>00</u> Price Level = Total of Items in 1.0 to 3.0	4 S C	420	4.024	
(including Provisions for Contract Fluctuations)		420	4,034	4,454 (\$7,814/m2 CFA)
g	[		!	(\$7,814/m2 CFA)

#### Remarks

1. Unallocable Portion includes the following:

Estate Management Office	$e_1 = 110$	m2 CFA
Owner's Corporation Office	40	m2 CFA
Cleansing Contractors Office	20	m2 CFA
Artisan Workshop	30	m2 CFA
Refuse Collection Point	370	m2 CFA
Total	570	m2 CFA

2. There is no Welfare Facilities in this project as confirmed by the Architect.

# Construction Cost Budget No. 4 (Carpark Portion)

PHASE 2

Project: Redevelopment of Hung Hom Estate

Phase \_2 (PHDP Code: \_\_\_\_)

		T-A'	1.0	
Cost at June 00 Price Level	Space (No.)	Estimated Site Form. & Foundation (Incl. caps)		TOTAL
1.0 <u>Carpark in a freestanding</u> <u>Carpark Building</u>				
(a) Carpark Portion  Area of which yardstick is based upon  Private (35 m2 CFA per space)  Motorcycle (6 m2 CFA per space)	463 30 493	2,732 29	60,559 650	63,291 679
(b) Building Services				
- Private - Motorcycle	463 30	<u>-</u>	7,633 82	7,633 82
Sub-total (A) :- (including Provisions for Contract Fluctor) (Total CFA based on Actual Design 15,555 & Average CFA per carparking spac 33.24	m2	2,761	\$,000.00 68,924	71,685 (\$4,608/m2 CFA) (\$153,173 per space
2.0 <u>Development Contingency</u>		138	3,446	3,584
Total Cost of Carpark Portion at June 00 Price Le = (A) + Item 2.0 (including Provisions for Contract Fluctuations)	vel	2,899	72,370	<b>75,269</b> (\$4,839/m2 CFA) (\$160,831 per space
ji ji				
3.0 Difference between Actual Design (Item 1.0 above) and Cost Yardsticks due to the following:		<	\$,000.00	· · · · · · · · · · · · · · · · · · ·

#### Remark:

1. 30 No. of motorcycle carpark is counted as 5 No. private carpark

-3,309

422

5,987

4,306

1,000

(a) Adjust for shallow foundation

(b) Add cost for mechanical ventilation

(e) Extra cost for extra external walls

(c) Add cost for congested site construction

(d) Extra cost for sceen wall and waterproofing

-3,309

422

5,987

4,306

1,000

Construction Cost Budget No. 4

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

Project: Redevelopment of Hung Hom Estate PHASE 2 (PHDP Code: \_\_\_\_)

	Estimate	Estimated Cost		
Cost at June <u>00</u> Price Level	Building	Others	TOTAL	
	<	\$,000.00		
.0 Transfer Plate based on Actual Design a) Transfer structure for domestic blocks	16,902	#4	16,902	
2.51.5.2				
	effect .			
# ne f				
Sub-Total (A)	16,902	-	16,902	
= 1 7= 3 = 3	· <	\$,000.00		
0 Development Contingency	845	_	845	
, š				
e av v				
*				
2 10				
	E 11			
			#1	
Sub-Total (B)	845		845	
		5°	0.15	
	<	\$,000.00		
Total Cost of Commonly Shared Transfer Structu at June 00 Price Level = (A) +(B) (including Provisions for Contract Fluctuations)	res 17,747	0	17,747	

Construction Cost Budget No. 4 (External Works - Commonly Shared Across Phases o PHASE 2

Development and Amongst Various HA Busiesses)

Project: Redevelopment of Hung Hom Estate Phase 2 (PHDP Code: \_\_\_\_\_)

Total GEA = 13.920 m2; Total CFA= 103.940 m2; Total LAA = \_\_\_\_\_ m2

Г	Control On Division	Estimat	ed Cost	
	Cost at June <u>00</u> Price Level	Foundation (Incl. Caps)	Building (Excl. Caps)	TOTAL
1.0	External Works based Cost Yardsticks (excl. Contract Price Fluctuation)	<b>←</b>	S,000.00	
	Hard Landscape Works (Amenities) Underground Drainage		22,021 10,245	22,021 10,245
	Sub-total (A)	0	32,266	32,266 (\$310/m2 CFA) (\$2,318 /m2 GEA)
2.0	Special External Works based on Actual Design (incl. Contract Price	E Fluctuation)	\$,000.00	
(b)	Suspended podium structure Allow cost for special features at entrances Allow cost for road widening works at Tai Wan Road	2,996	6,900 1,000 1,000	9,896 1,000 1,000
	Sub-total (B)	2,996	8,900	11,896 (\$114/m2 CFA) (\$855 /m2 GEA)
3.0	Development Contingency	150	\$,000.00 2,058	2,208
	Sub-Total (C)	150	2,058	2,208 · (\$21/m2 CFA) (\$159/m2 GEA)
]	Total Cost of Commonly Shared External Works at June 00 Price Level = $(A) + (B) + (C)$ (including Provisions for Contract Fluctuations)	3,146	43,224	46,370 (\$446/m2 CFA) (\$3,331 /m2 GEA)

4.0 Cost of Automated Refuse Collection System at June 00 Price Level  5.0 Development Contingency	<	\$,000.00 	
Total Cost of Automated Refuse Collection System at June 00 Price Level = Total of Items 4.0 to 5.0 (including provisions for Contract Fluctuation)			(\$ /m2 CFA)

ı	Contract to a contract of	Estimated Cost		
	Cost at June 00 Price Level	Soft Landscape	Fees & Others	TOTAL
5.0	Cost of Other Separate Contracts (incl. Softlandscaping Work)	<	\$,000.00	>
	at June 00 Price Level	995	796	1,791
7.0	Development Contingency	50	40	90
	Cost of Other Separate Contracts (incl. Softlandscaping Work) at June 00 Price Level = Total of Items 6.0 to 7.0 (including Provisions for Contract Fluctuations)	1,045	836	1,881 (\$18/m2 CFA) (\$135 /m2 GEA

1.7									
194	* 4 _	Th		C1 1	Budget	The Trans	A 6	<b>Demolition</b>	١
450	ITP.	ILEVAIN	nmont	I OST	KIINGET	NO	4 (	Hemolition	1
$\sim$		DC Y CIU	DIMETER	C031	Duuget	TIO	- (	Dethonion	1

PHASE 2

Project: Redevelopment of Hung Hom Estate Phase 2 (PHDP Code: \_\_\_\_)

	Estimated Co				
Cost at June <u>00</u> Price Level	Demolition	Others	TOTAL		
	<>\$,000.00>				
1.0 Estimated Cost for Demolition					
(a) Demolition of 2 No. H-Blocks	5,583	-	5,583		
(based on awarded Contract Sum)		22			
			ii.		
			- 1		
Total Cost of Demolition Works Sub Total (A)	5 502		£ 502		
Total Cost of Demolition Works Sub-Total (A)	5,583	_	5,583		
	<>\$,000.00>				
2.0 Development Contingency	<b>2</b> 79		279		
2.0 Development Contingency	219	_	219		
₽.					
			3		
Sub-Total (B)	279	i ini	279		
	<	\$,000.00	>		
Total Cost of Demolition Works	5,862	_	5,862		
at June $00$ Price Level = $(A) + (B)$			, -		
(including provisions for Contract Fluctuations)					
2					

# Remarks:

1. The awarded contract sm for demolition and site formation works is \$24,679,637 and out of which only \$5,582,534 is HA funded.