

# THE HONG KONG HOUSING AUTHORITY

# Memorandum for the Building Committee

Proposed Master Layout Plan and Project Development Budget for the Redevelopment of Tung Tau Estate Phase 9

# **PURPOSE**

To seek Members' approval to the Proposed Master Layout Plan and Project Development Budget for the Redevelopment of Tung Tau Estate Phase 9.

# BACKGROUND

- 2. The development site is located at Wong Tai Sin. The site is bounded by Lok Sin Road to the north-west, Kai Tak Nullah to the north-east, Shek Ku Lung Road Playground to the south and Lee Kau Yau Memorial School to the south-east. Location Plan is shown in **Part 1A** of the **Annex**.
- Tung Tau Estate Phase 9 (Block 23) was the last phase of public housing redevelopment in Kowloon Central under the Comprehensive Redevelopment Programme. The rehousing of tenants to Upper Wong Tai Sin Estate Phase 4 had been completed in September 2001. Compared with the previous HOUSCOM's Control List, the current proposed flat production for Tung Tau Estate Phase 9 has increased by 156 flats to a total of 1,836 flats.
- 4. Tung Tau Estate Phase 9 is earmarked for PRH development to meet the demand from PRH applicants as well as the potential redevelopment of old PRH estates in Wong Tai Sin district.

5. Past events relevant to the project are as follows -

**Date** Events

(a) 23 March 2001	PDRC endorsed the Development Parameters, Conceptual Layout, Cost Estimate and Financial Assessment for the Proposed Redevelopment of Tung Tau Estate Phase 9 for submission to the Strategic Planning Committee (SPC) (PDRC Paper No. 7/01)
(b) 14 June 2001	SPC approved the inclusion of Tung Tau Estate Phase 9 into the PHDP and endorsed its respective development cost ceilings (Paper No. SPC 26/2001)
(c) 23 October 2001	Wong Tai Sin District Council was briefed on the proposed scheme design and development parameters for Tung Tau Estate Phase 9.
(d) 19 November 2001	Kowloon District Planning Conference (KDPC) approved the development parameters for Tung Tau Estate Phase 9 (KDPC Paper No. 6/2001)
(e) 25 January 2002	PDRC endorsed the Proposed Master Layout Plan and Project Development Budget for the Proposed Redevelopment of Tung Tau Estate Phase 9 for submission to Building Committee. (PDRC Paper No. 01/2002)
(f) 12 March 2002	Wong Tai Sin District Council was briefed on the revised scheme design and development parameters for Tung Tau Estate Phase 9

# **MASTER LAYOUT PLAN**

- 6. The Proposed Master Layout Plan of Tung Tau Estate Phase 9, follows generally the approved Development Parameters with non-standard site specific approach as approved by SPC via Paper No. SPC 26/2001. It comprises-
  - (a) Two 45-residential storeyed non-standard PRH Blocks;
  - (b) One 2-storeyed podium carpark;

- (c) One 3-storeyed Residential Care Home for the Elderly (RCHE); and
- (d) Associated external work and landscape work at podium roof.
- 7. This Project will provide a total of 1,836 flats for Year 2006/07 with a total car parking provision for 76 private cars, eight motor-cycles and 13 Light Good Vehicles (LGV).
- 8. A reduction of 382 private carparks is made as compared with the approved Development Parameters and Conceptual Layout in SPC submission. This reduction is resulted from the Second Parking Demand Study whereby the prevailing private car parking statutory requirement of 1 parking space per 4 flats for residential development over plot ratio 6.0 would be relaxed.
- 9. The major Development Parameters are summarized as follows (For details, refer to Part I B & C of the Annex) -

**Table 1: Summary of Development Parameters** 

	Housing	No. of	Design	Gross Site	Domestic	Plot Ratio
	Type	Flats	Population	Area	GFA	
Phase 9	Group 1	1,836	5,100	11,189 m <sup>2</sup>	82,024 m <sup>2</sup>	7.33

10. The Master Layout Plan drawings are attached in **Part II** of the **Annex**. The main features of the overall development are as follows -

# PLANNING CONTEXT

- (a) The vehicular access points are at the end of Tung Lei Road where private car entrance is separated from that of LGV. This allows more effective management between the two different groups of carpark users.
- (b) Emergency Vehicular Access (EVA) is integrated into the forecourt landscape fronting Lok Sin Road.

# (c) Traffic noise impact -

- (i) The subject site is subjected to considerable traffic noise from Lok Sin Road and Prince Edward Road East. Given the size of the site and its proximity to the noise source, it would be difficult to mitigate against such noise to fully comply with the standard of 70dB(A) stipulated in the HKPSG.
- (ii) Despite the building locations, orientation, carpark podium and set back façade to provide noise mitigation, the principal facades facing towards Prince Edward Road East and Lok Sin Road still experience noise intrusion problem. There are a total of 920 flats out of 1,836 flats exceeding the stipulated standard of 70dB(A), which represents 50.1% of the entire development. The highest noise level is estimated to be 76dB(A).
- (iii) Since the site area (about 1.2 ha) is below 2 ha, therefore, according to EPD Practice Note ProPECC PN1/97, no minimum road traffic noise exposure compliance rate is required. However, it is still encouraged to consider and incorporate noise mitigation measure whenever practicable.
- (iv) Various noise mitigation measures have been tested for effectiveness, including the use of 5m high noise barriers along both Prince Edward Road East and Lok Sin Road. The improvement on noise compliance rate is less than 1%. It is considered ineffective and not worth pursuing. Further study shows that if the existing podium were to extend to the site boundary facing Lok Sin Road, only 2% improvement would be achieved on the noise compliance rate.
- (v) To reduce the traffic noise impact, all facades with noise levels exceeding 70dB(A) criterion are recommended to be provided with well-gasketted windows with a minimum of 6mm panel together with air-conditioning subject to housing policy as a last resort.

# (d) Visual impact-

The two 45-storey domestic towers on podium are proposed to maximize the site potential according to the development parameters approved by Kowloon District Planning Conference on 19 November 2001. Their disposition, however, lies on the "sight line" towards the Lion Rock from the Metro Park in the SE Kowloon Development and the degree of obstruction depends on the "vantage point" one takes along the axis. Despite its height, the view will not be obstructed by the proposed development when viewed from the Metro Park.

# **BUILDING DESIGN**

- (e) The tower blocks and carpark podium are set back from Lok Sin Road to create a wider visual corridor along the road, with a larger open space/forecourt for recreation purpose.
- (f) Vehicular and service zones are tuck away at the rear side of the podium to allow a "pedestrian zone" of better comfort and safety fronting Lok Sin Road.
- (g) The set back of domestic blocks from Lok Sin Road also enhances noise mitigation. Orientation of the domestic blocks is set to maximize open view with minimal overlooking between blocks.
- (h) Designated service corridors are provided at G/F to facilitate refuse collection and loading/unloading operations.
- (i) Podium is set back from the Tung Lei Road with specific aim to provide an extended landscape zone and to preserve the existing trees just outside the site boundary.
- (j) The RCHE's entrance is located at the north-eastern corner of the site for prominent and convenient access from Lok Sin Road. The sitting of the RCHE also enjoy full frontage of the open area to the north-east parallel to the existing nullah.
- (k) Site specific non-standard block design is adopted to achieve the following design objective-
  - (i) The non-standard flat modules are derived mainly from the "Standard New Harmony" flat modules, with modified kitchen and bathroom layout to improve cloth drying and fume exhausting arrangement.
  - (ii) Bay windows are incorporated in the smaller bedroom of 1B, 2B and 3B flats and also the living/bedroom area of all 1P/2P and 2P/3P flats to enhance the spatial quality of these small area/flats.
  - (iii) Architectural feature and fins at roof and gable end walls to provide character for the development.

- (iv) Precast facade construction for non-standard flat modules to enhance buildability.
- (v) Enhance lighting and natural ventilation at typical floor corridor for better comfort.

# LANDSCAPE DESIGN

- (l) The main objective of the landscape design is to establish a coherent and robust framework for maximizing the landscape design potential within the site, with particular focus on elderly facilities. Landscape design will be developed at the ground floor area and on the podium roof level.
- (m) It is proposed that the main concept of landscape design is to build on the existing culture and local characteristics of Tung Tau Estate, expressed in modern design context and language. Due to the high population of elderly in the vicinity, provision of elderly facilities is highly emphasized in the landscape design.
- (n) The open space arrangement and landscape features of the ground floor area are as follows-
  - (i) Within the limited site configuration, the landscape design is focused on the frontage of the development along Lok Sin Road and Tung Lei Road. A series of different character pocket open spaces is proposed, which is connected by the soft-landscaped pedestrian passage (to integrate with part of the E.V.A.). This serves to re-provide the sitting-out-areas for small groups of people to gather, chat and to play chess in the old days.
  - (ii) Recycled landscape furniture is provided within these small open spaces. Facilities for the elderly include sitting-out areas with pavilions and small garden with rockscape and shaded sitting.

# PROJECT DEVELOPMENT BUDGET

11. The proposed Project Development Budget for the development is estimated to be HK\$722.851M for Tung Tau Estate Phase 9. A breakdown of the proposed Development Budget is given in **Part IV** of the **Annex** and the key elements are summarized in **Table 2**.

**Table 2: Project Development Budget** 

	Cost Heads	Works Elements	Total \$M
(a)	Site Development Cost	Site Formation Demolition Sub-total	11.236 11.236
(b)	Construction Cost	Foundation Building Soft Landscape & Others Sub-total	100.627 500.043 1.668 602.338
(c)	Other Project Cost [2% on (a) and (b)]	Civil engineering and geotechnical studies, site investigation, material testing	12.271
(d)	Total Site Development [(a) + (b) + (c)]	· · · · · · · · · · · · · · · · · · ·	625.845
(e)	Project Management Cost [15.5% of (d)]	Professional services and overheads, consultation fee and consultant site staff etc.	97.006
(f)	Project Development B	udget [(d) + (e)]	722.851

Note: Construction Cost of RCHE is not included.

12. The Construction Cost (including foundation and superstructure) of the 100-place RCHE is \$14.958M. Social Welfare Department has indicated their intention to wholly fund the development of RCHE by Lotteries Fund.

# PROJECT DEVELOPMENT COST

13. The proposed Project Development Cost of Tung Tau Estate Phase 9 based on the Master Layout Plan as compared with the Approved Project Development Cost Ceiling is indicated in **Table 3**.

Table 3: Combined Cost Apportionment

	(a)	(b)	(c)	(d1)	(d2)
Buildings/	Proposed	Approved	Proposed Unit	June 2001	June 2001
Portion	Project	Project	Construction	Construction	Construction
	Developmen	Development	Cost adjusted	Cost	Cost
	Cost	Cost Ceiling	to tender-in	Yardstick for	Yardstick for
		(Paper No.	date	Group 1	Group 1
		SPC 26/2001)			adjusted to
					tender-in date
		_	(Note 1)	(Note 2)	(Note 2)
	(\$/m <sup>2</sup> CFA)				
PRH	7,241	7,246	5,753	5,024	5,011
(non-std)					
Private	6,118	6,594	4,800	4,779	4,767
Car					
Parking					
LGV	6,685	7,194	5,280	5,260	5,247
Parking			·		
Welfare	7,100	5,429	5,746	_	

# Note -

- 1. For comparing with the Construction Cost Yardstick, external works, soft landscaping and other sundry costs such as drainage, utility connections, other project costs and project management costs, etc. have been excluded from the Unit Construction Cost. However, the costs of piling, substructure, superstructure, including fluctuation and transfer plate have been included in the Construction Cost. The Construction Cost has been adjusted to the price level at the time of tender.
- 2. Cost Yardstick for Group 1 Non-standard Design project based on New Harmony 1 (Option 6) with transfer-plate on podium, inclusive of 5% development contingency. Same provision being allowed for in the cost yardstick for both private carpark and LGV parking under podium of domestic building.
- 14. The proposed Project Development Cost of PRH, private carpark and LGV parking are all within the Project Development Cost Ceiling as approved by the Strategic Planning Committee. (Paper No. SPC 26/2001 refers.)

15. With reference to Table 3, the proposed unit construction cost for the PRH is 14.81% over the Construction Cost Yardstick of Group 1 for non-standard domestic (based on New Harmony 1(Option 6)) for the reasons as follows -

# PRH Cost: % over Yardstick (a) (i) High cost in deep foundation based on 11.74% project specific site condition and recent tender prices for H-piles of Engineer's design. (ii) Provision of refugee floor and higher 1.86% structural cost due to building height over 40 domestic storeys. Miscellaneous (such as provision of air-(iii) 1.21% conditioning etc.).

With reference to Table 3, the proposed Unit Construction Cost for the private carpark and LGV parking is 0.69% and 0.63% respectively over the June 2001 Cost Yardstick adjusted to tender-in date.

(Total)

14.81%

# AVAILABILITY OF FUNDS

17. Based on the Proposed Project Development Budget, the estimated yearly expenditure for the project is shown below and would be included in the next capital budget updating of the Authority - Table 4: Estimated Expenditure

	2001/02	2002/03	2003/04	2004/05	2005/06	Post 2006	Total
Capital	8.016	71.275	82.181	143.230	225.181	133.379	663.262
Budget				]			
(updated on 4/3/2002)				<b>†</b>			
Estimated Expenditure	11.130	0.500	98.614	82.554	201.299	231.748	625.845

# DEVELOPMENT PROGRAMME

18. The key dates for the development programme are as follows -

(a) Master Layout Plan	PDRC(2)	01/02		
(b) Master Layout Plan	BC	04/02		
(c) Detailed Design	DDRP	09/02		
(d) Demolition	Tender Out	07/01		
	Commencement	10/01		
	Completion	05/02		
(e) Piling	Tender Out	11/02		
	Commencement	03/03		
	Completion	03/04		
(f) Building	Tender Out	10/03		
	Commencement	03/04		
	Completion	03/07		

# RECOMMENDATION

19. It is recommended that the Proposed Master Layout Plan and Project Development Budget of \$722.851M for the Redevelopment at Tung Tau Estate Phase 9 as described above and in the Annexes to this paper be approved.

# **DISCUSSION**

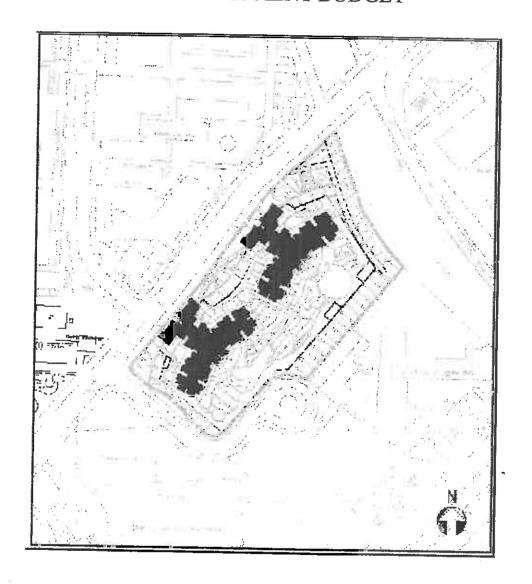
20: At the next meeting of the Building Committee to be held on 25 April 2002, members will be invited to approve the recommendation in Paragraph 19 above.

File Ref. : HD(AR) 55/767/9

Date : 22 April 2002

# Proposed Redevelopment of Tung Tau Estate Phase 9

# PROPOSED MASTER LAYOUT PLAN AND PROJECT DEVELOPMENT BUDGET



**Issue No.1** 

# BC SUBMISSION APRIL 2002

DEVELOPMENT AND CONSTRUCTION BRANCH HOUSING DEPARTMENT

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  - 2.1.2 Adjacent Land Uses
- 2.2 Environmental Mitigation
- 2.3 Site Formation
- 2.4 Zoning Consideration
- 2.5 Infrastructure
  - 2.5.1 Drainage and Sewerage
  - 2.5.2 Water Supply
  - 2.5.3 Electricity, Telephone, Gas
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- 5. Typical Flat Layout Plans
- 6. Area and Efficiency Ratio

# Part III: Development Programme

Part IV: Project Development Budget

THIS DOCUMENT HAS BEEN REVIEWED AND APPROVED FOR ADEQUACY

**SIGNED:** 

Mr. C.W. KO

Date:

17 April 2002

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BC Submission - Tung Tau Estate Phase 9

# Part I B – EVALUATION OF MASTER LAYOUT PLAN

	Development Parameters	Magton I arrorst Dlan	D 1
2.1	The Site	Master Layout Plan	Remarks
	Site Location Tung Tau Estate Phase 9 is located at Wong Tai Sin (Refer to location plan in Annex I).	As in the Development Parameters.	
2.1.2	Adjacent Land Use The site is bounded by Lok Sin Road to the north-west, Kai Tak Nullah to the northeast, Shek Ku Lung Road Playground to the south and Lee Kau Yau Memorial School to the south-east.	As in the Development Parameters.	5:
2.2	Environmental Mitigation		
	Since the total site area is less than 2 ha, there is no minimum rate in the ProPECC note on traffic noise that has to be complied with.  The building locations, orientations and podium provision have been considered during the design to mitigate the traffic noise impact from Prince Edward Road East (major district distributor) and Lok Sin Road on the residential flats.		Although there is no specified minimum noise compliance rate for site area less than 2 hectares, noise mitigation measures whenever practicable and acoustic insulation to any remaining affected residential
	Given the close proximity of the site to Lok Sin Road, noise barriers are found to be ineffective and not provided. In this design layout, 50.1% of the dwelling flats are expected to experience traffic noise in excess of standard 70 dB(A). Among these flats, about 28% will experience noise level of 75 dB(A) and above while 1.5% will experience a maximum level of 76 dB(A).		units should be considered and provided. (Reference: Preliminary Report- Traffic Noise Assessment Study dated 04/02 prepared by MVA ASIA LIMITED.)

Evaluation of Master Layout Plan BC Submission – Tung Tau Estate Phase 9

# Part I B - EVALUATION OF MASTER LAYOUT PLAN

Development Parameters	Master I growt Dt	
2.3 Site Formation	Master Layout Plan	Remarks
No site formation works are required.	As in the Development Parameters.	
Zoning Consideration The site is zoned "Residential (Group A)" on the Outline Zoning Plan. No.S/K8/12.	As in the Development Parameters.	
2.5 <u>Infrastructure</u>		
No structure will be erected within the two proposed Drainage Reserve Areas and Water Works Reserve Area within Tung Tau Estate Phase 9. These mainly include the northern corner of the site, the strip of land along Kai Tak Nullah and the strip of land abutting the south-eastern site boundary line.	As in the Development Parameters.	\$\bar{1}{1}
5.2 <u>Water Supply</u> Existing fresh/salt water supply are available.	As in the Development Parameters.	
Some diversions of utilities services may be required. Detailed advice on the new supply system should be sought from various utility companies at detailed design stage.	As in the Development Parameters.	

# Part I C- ACCOMMODATION & FACILITIES

	Approved by SPC (Paper No. SPC no. 26/2001)	Proposed Scheme	Remarks
3.1	Site Area		
	Gross site area: 1.12 ha (approx.)	Gross site area : 1.12 ha (11,189m²)	
3.2	Plot Ratio		
	Gross Floor Area (Domestic) is 82,500 m <sup>2</sup> .	Gross Floor Area (Domestic) is 82,024.45 m <sup>2</sup> .	
×.	Domestic Plot Ratio is 7.5. (OZP: max. Plot Ratio = 7.5)	Domestic Plot Ratio is 7.33.	
3.3	Design Population		3/
	The Total Design Population is 5,200.	The Total Design Population is 5,100 (approx.).	
3.4	Flat Number and Flat Mix		
	The proposed housing development is planned to provide a total of 1,831 rental flats.	Provision of 1,836 rental flats in two 45 residential storeys site specific non-standard blocks.	
		Actual Flat Mix Production:	
	<b></b>	Flat 1/2P 2/3P 1B 2B 3B Total No. 624 176 578 406 52 1836	
3.5	Retail Provision	<b>%</b> 34.0 9.6 31.5 22.1 2.8 100	
	Nil. To be served by the existing retail facilities in Tung Tau (II) Estate, San Po Kong and Kowloon City.	As in SPC Development Parameters.	
3.6	Comminity/Welfare		
	Provision of a 100 bed-space Residential Care Home for the Elderly (RCHE).	As in SPC Development Parameters.	

# Part I C- ACCOMMODATION & FACILITIES

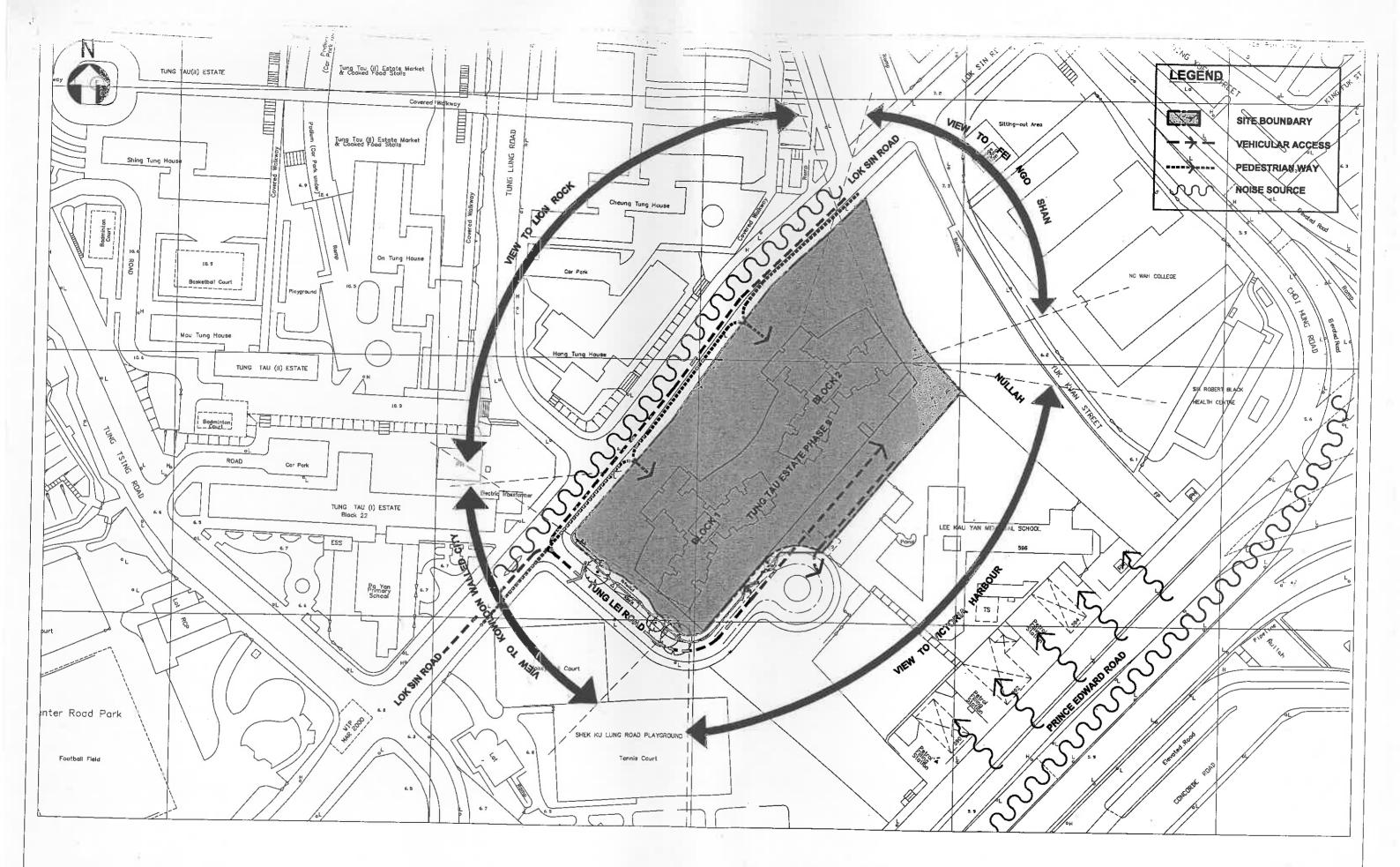
Approved by SPC	Proposed Scheme	Remarks
Parking Provision		
Carpark Spaces* 450 nos. (1 space per 4 flats for plot ratio 6-7.5) (HKPSG: 1 private car parking space per 13-16 rental flats, size: 2.5m x 5m)	Carpark Spaces* 76 nos. (1 space per 16 flats)	Taken into account the existing car parking demand in nearby public housing estates.
Motor-cycle Space 23-45 nos. (10% of carpark spaces) (HKPSG: 5-10% of private car parking space for flats. Not less than 5 spaces will be provided at any location.)	Motor-cycle Space 8 nos. (10% of carpark spaces)	
Light Good Vehicle (LGV)  Spaces*  17 nos.  (1 space per 80 rental flats)  (HKPSG: 1 space per 80 rental flats, size: 3.5m x 7m)	Light Good Vehicle (LGV) Spaces* 13 nos. (1 space per 100 rental flats)	Pursuant to the Second Carparking Demand Study, parking provision of 1 space per 100 flats is adopted for LGV.
culation exclude 1P/2P flats	* Calculation exclude 1P/2P flats	
Management Accommodation		
Refer to attached Appendix.	As in SPC Development Parameters.	149
Local Open Space		
5,365 m <sup>2</sup> provided (HKPSG: 10 ha. per 100,000 persons (min.) i.e. 1m <sup>2</sup> per person)	6,259 m <sup>2</sup> provided	
	Parking Provision  Carpark Spaces* 450 nos. (1 space per 4 flats for plot ratio 6-7.5) (HKPSG: 1 private car parking space per 13-16 rental flats, size: 2.5m x 5m)  Motor-cycle Space 23-45 nos. (10% of carpark spaces) (HKPSG: 5-10% of private car parking space for flats. Not less than 5 spaces will be provided at any location.)  Light Good Vehicle (LGV) Spaces* 17 nos. (1 space per 80 rental flats) (HKPSG: 1 space per 80 rental flats, size: 3.5m x 7m)  culation exclude 1P/2P flats  Management Accommodation  Refer to attached Appendix.  Local Open Space  5,365 m² provided (HKPSG: 10 ha. per 100,000 persons (min.) i.e. 1m² per	Carpark Spaces*   450 nos. (1 space per 4 flats for plot ratio 6-7.5) (HKPSG: 1 private car parking space per 13-16 rental flats, size: 2.5m x 5m)   Motor-cycle Space 23-45 nos. (10% of carpark spaces) (HKPSG: 5-10% of private car parking space for flats. Not less than 5 spaces will be provided at any location.)   Light Good Vehicle (LGV) Spaces* 17 nos. (1 space per 80 rental flats) (HKPSG: 1 space per 80 rental flats, size: 3.5m x 7m)   Spaces* 13 nos. (1 space per 100 rental flats)   Carpark spaces

Accommodation and Facilities
BC Submission – Tung Tau Estate Phase 9

Part I C- ACCOMMODATION & FACILITIES

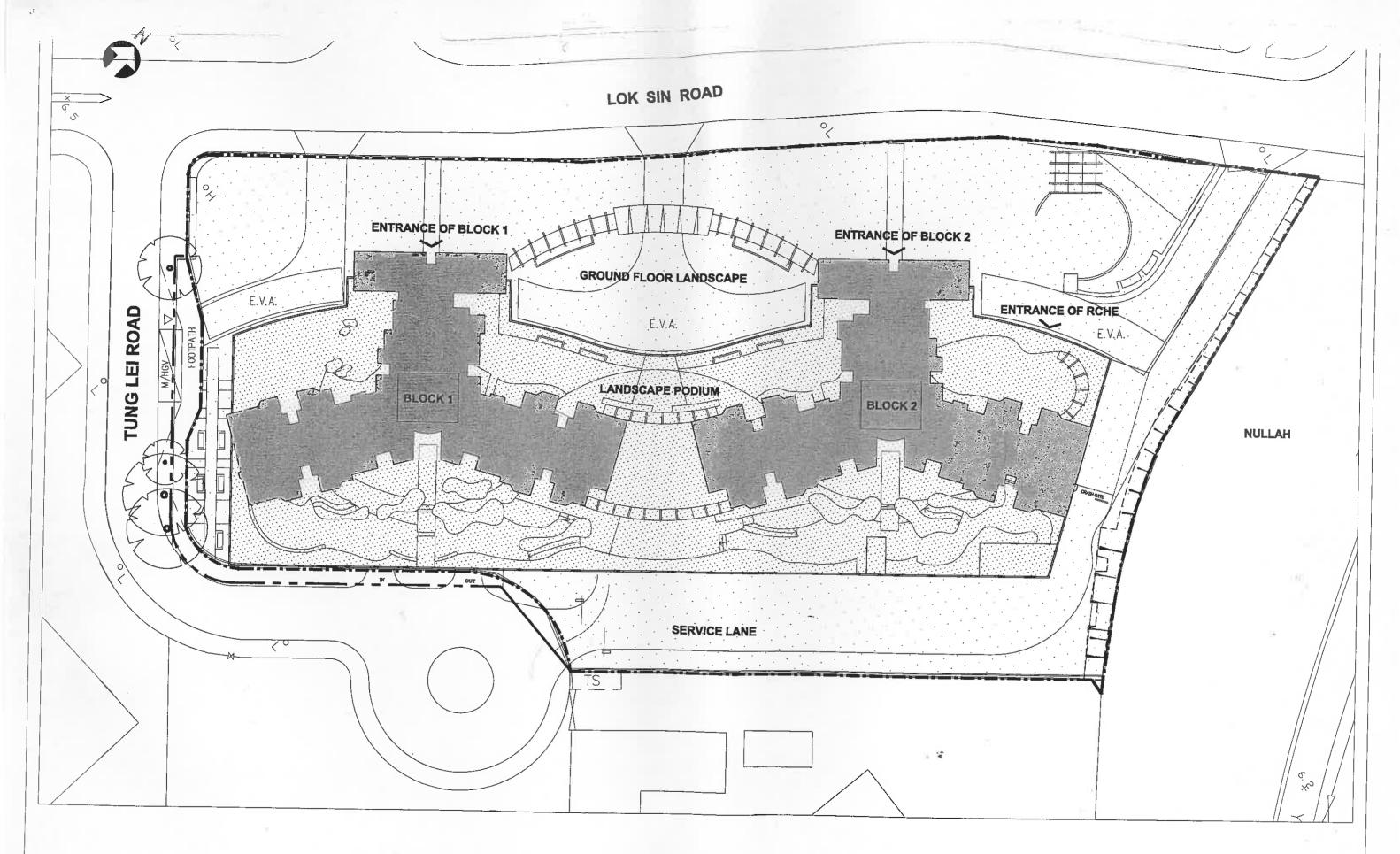
3.10	Recreation Facilities		
	Details not mentioned. (HKPSG: 400 m <sup>2</sup> per 5000 persons. This provision will be included in open space calculation.)	Children Play Area of 410m <sup>2</sup> will be provided in Tung Tau Estate Phase 9.	
3.11	Refuse Collection Facilities		
	1 no of Refuse Storage Area to be provided.	As in SPC Development Parameters.	

# PART IA - LOCATION PLAN

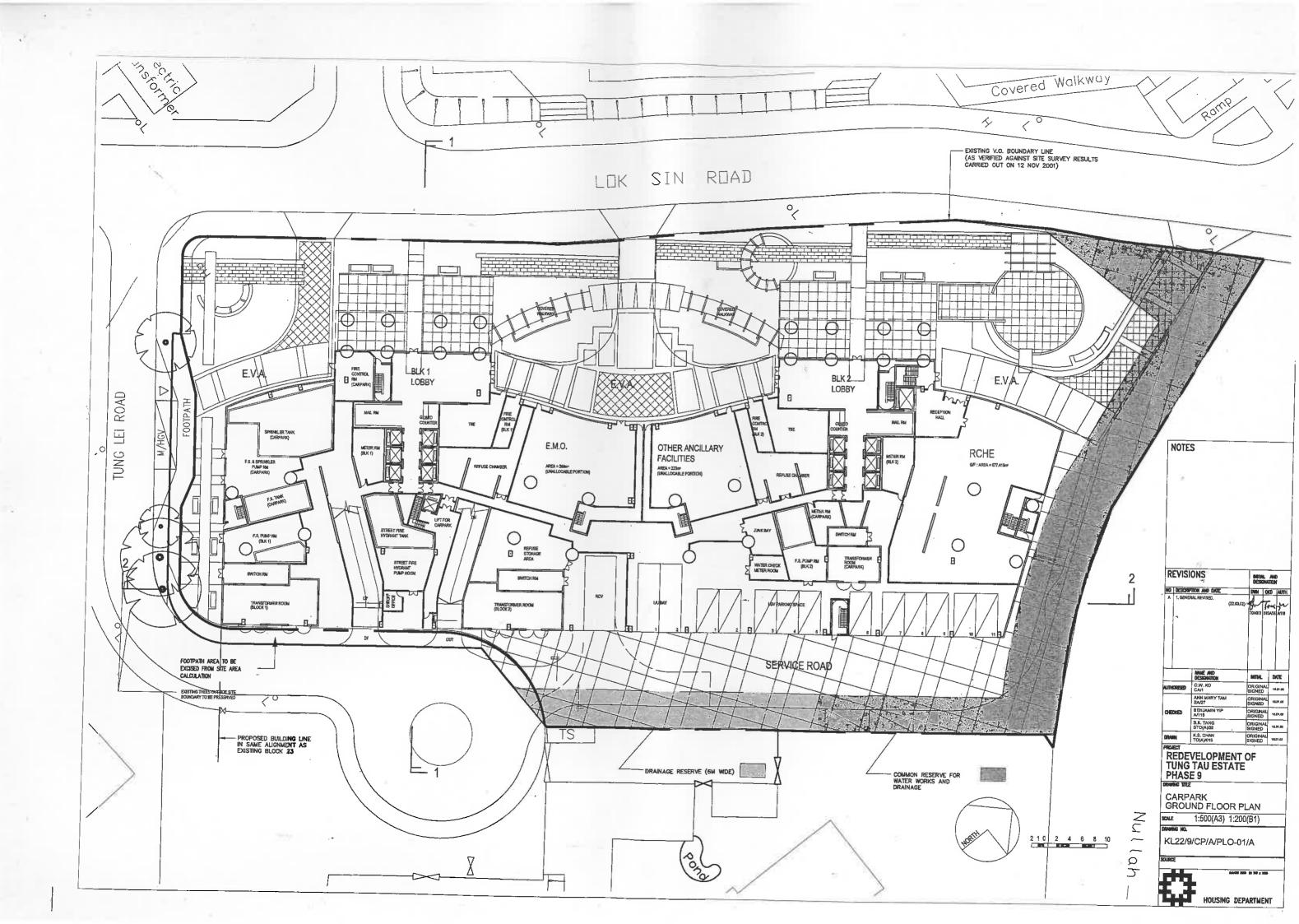


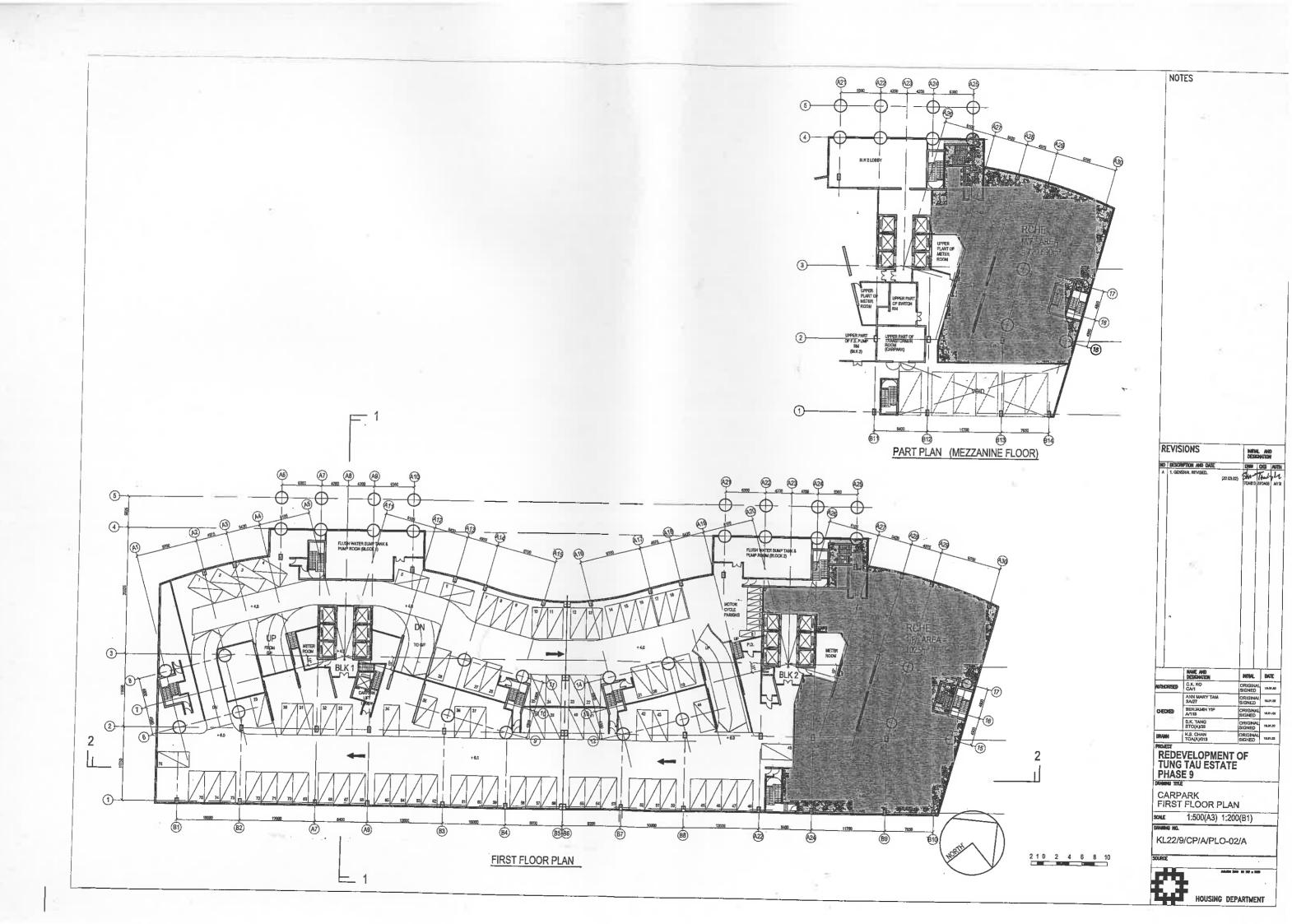
# LOCATION PLAN AND SITE STUDIES

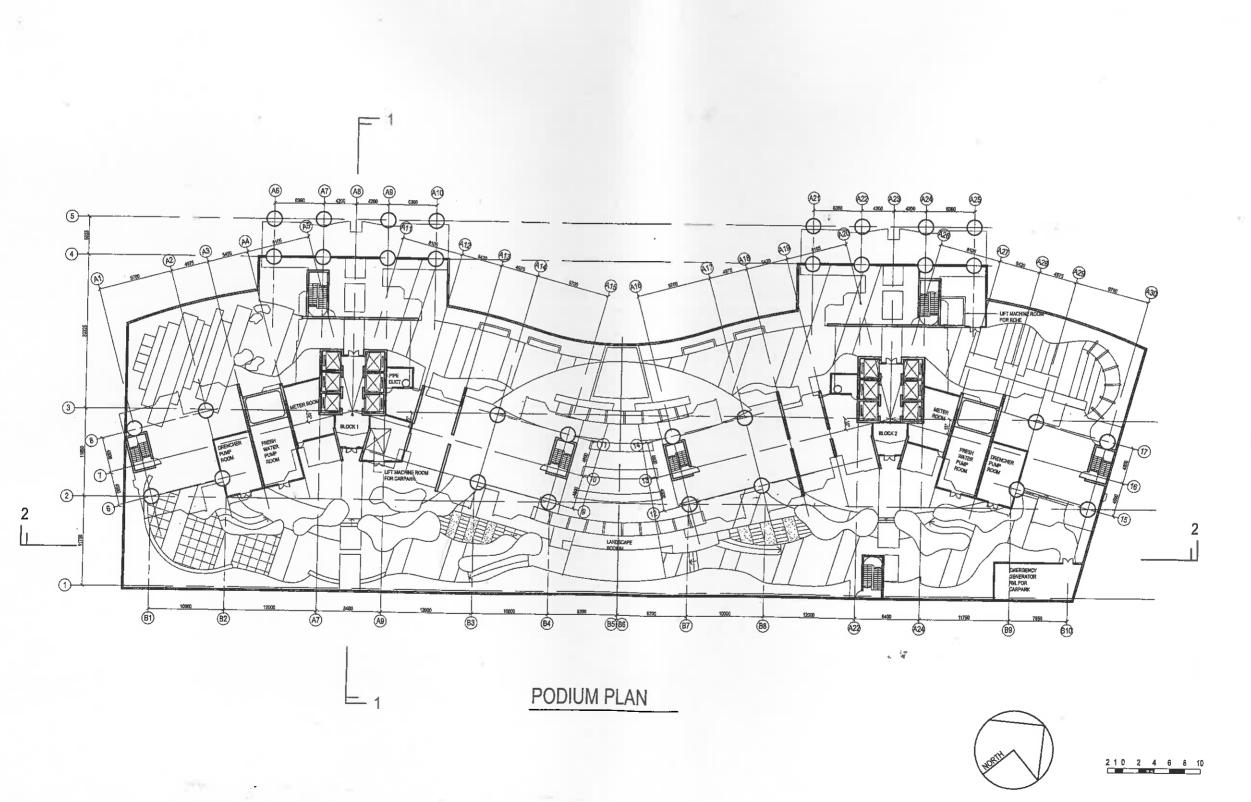
# PART II - MASTER LAYOUT DRAWINGS PROPOSED PUBLIC RENTAL HOUSING REDEVELOPMENT AT TUNG TAU ESTATE PHASE 9



# MASTER LAYOUT PLAN







REVISIONS INITIAL DATE
ORIGINAL 18,01,22
ORIGINAL 18,01,32
ORIGINAL 18,01,32
ORIGINAL 18,01,32
ORIGINAL 18,01,32
ORIGINAL 18,01,32
ORIGINAL 18,01,42
ORIGINAL 18,01,42
SIGNED 18,01,42

NOTES

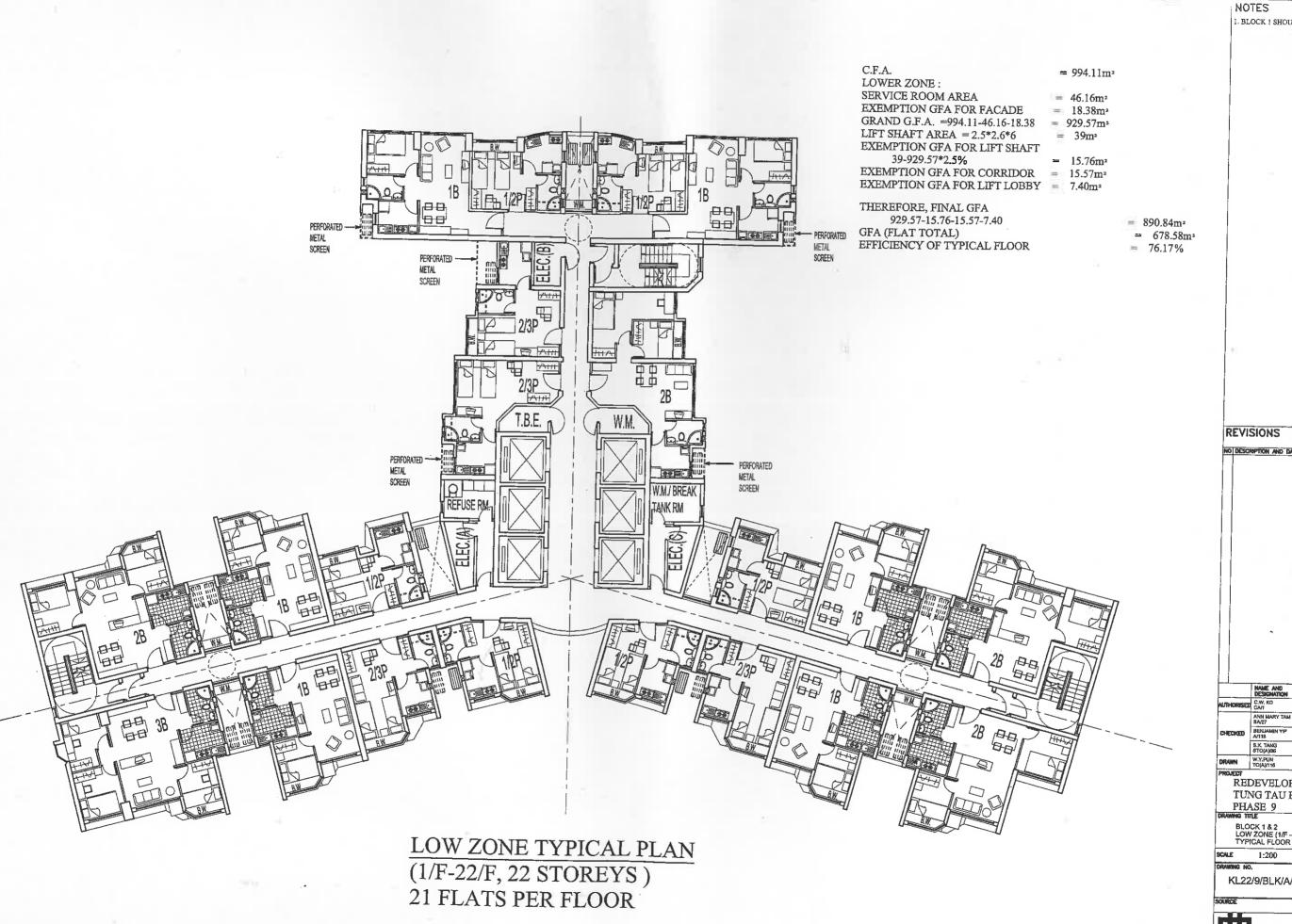
PROJECT
PROJECT
REDEVELOPMENT OF
TUNG TAU ESTATE
PHASE 9

DOWNW TILE
CARPARK
PODIUM PLAN

SOME 1:500(A3) 1:200(B1)

KL22/9/CP/A/PLO-03/A

HOUSING DEPARTMENT



1. BLOCK 1 SHOULD BE READ HANDED.

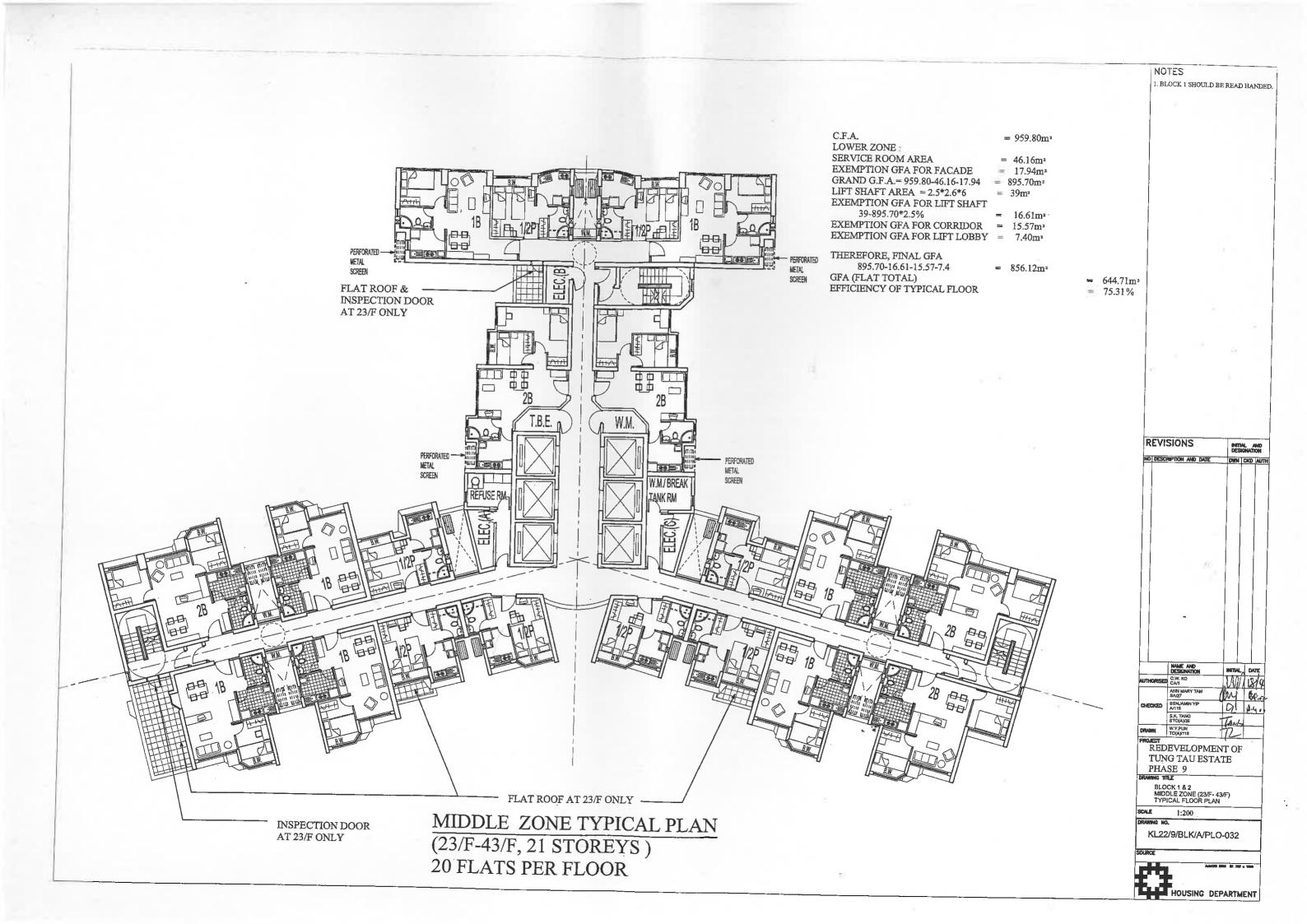
REDEVELOPMENT OF

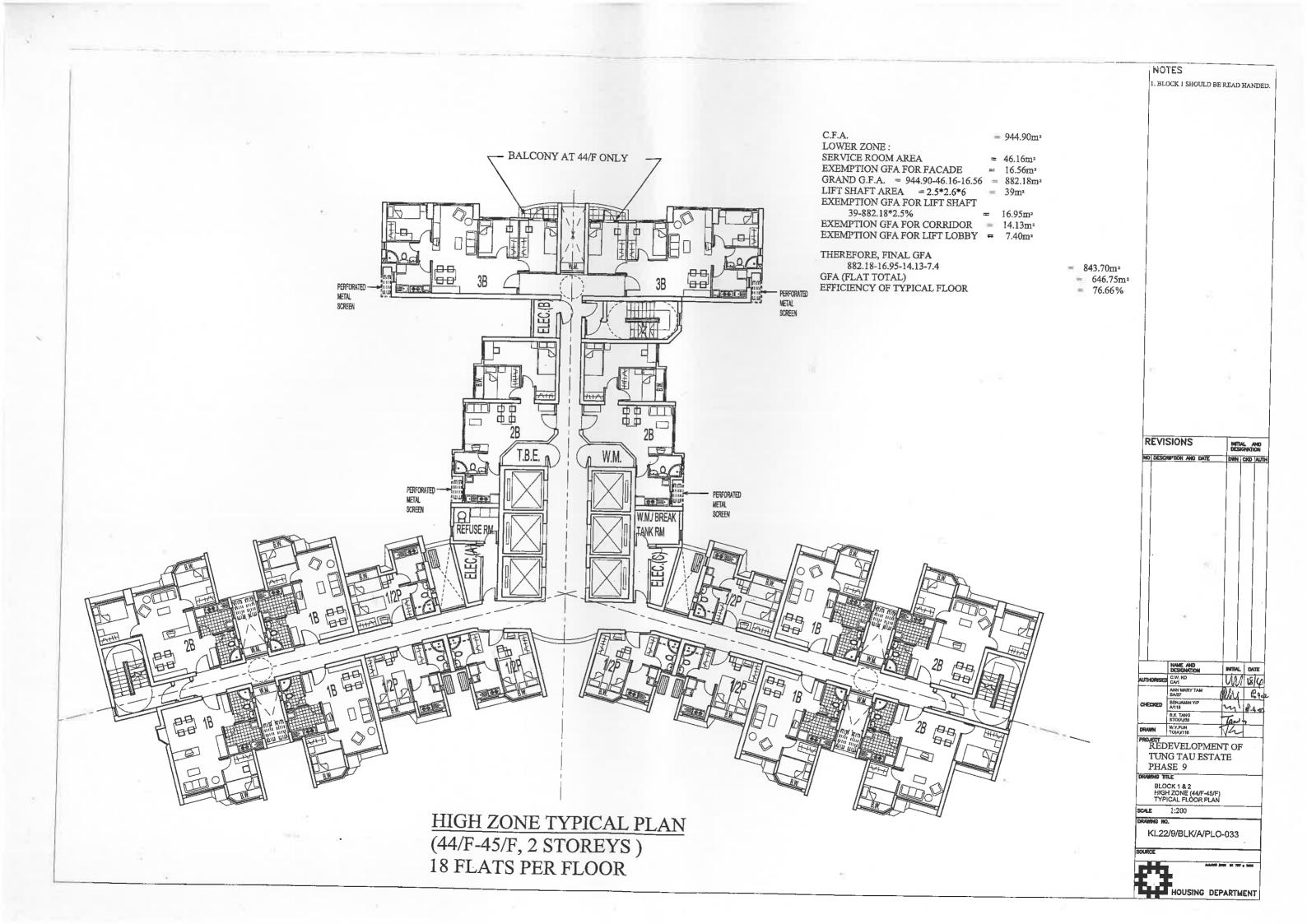
TUNG TAU ESTATE
PHASE 9

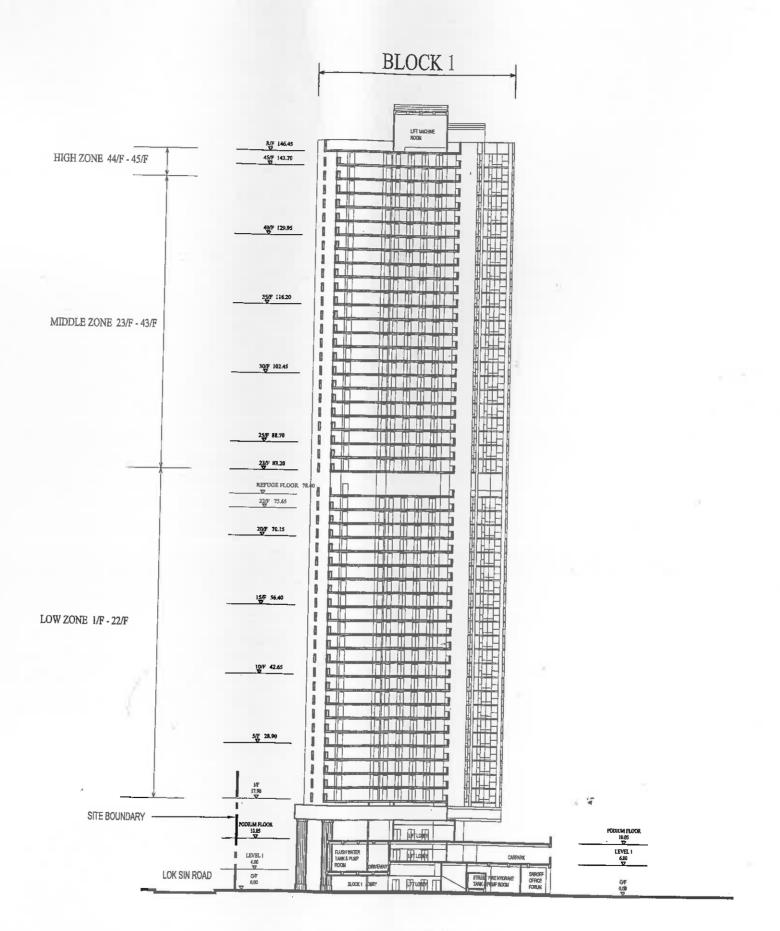
BLOCK 1 & 2 LOW ZONE (1/F - 22/F) TYPICAL FLOOR PLAN

KL22/9/BLK/A/PLO-031







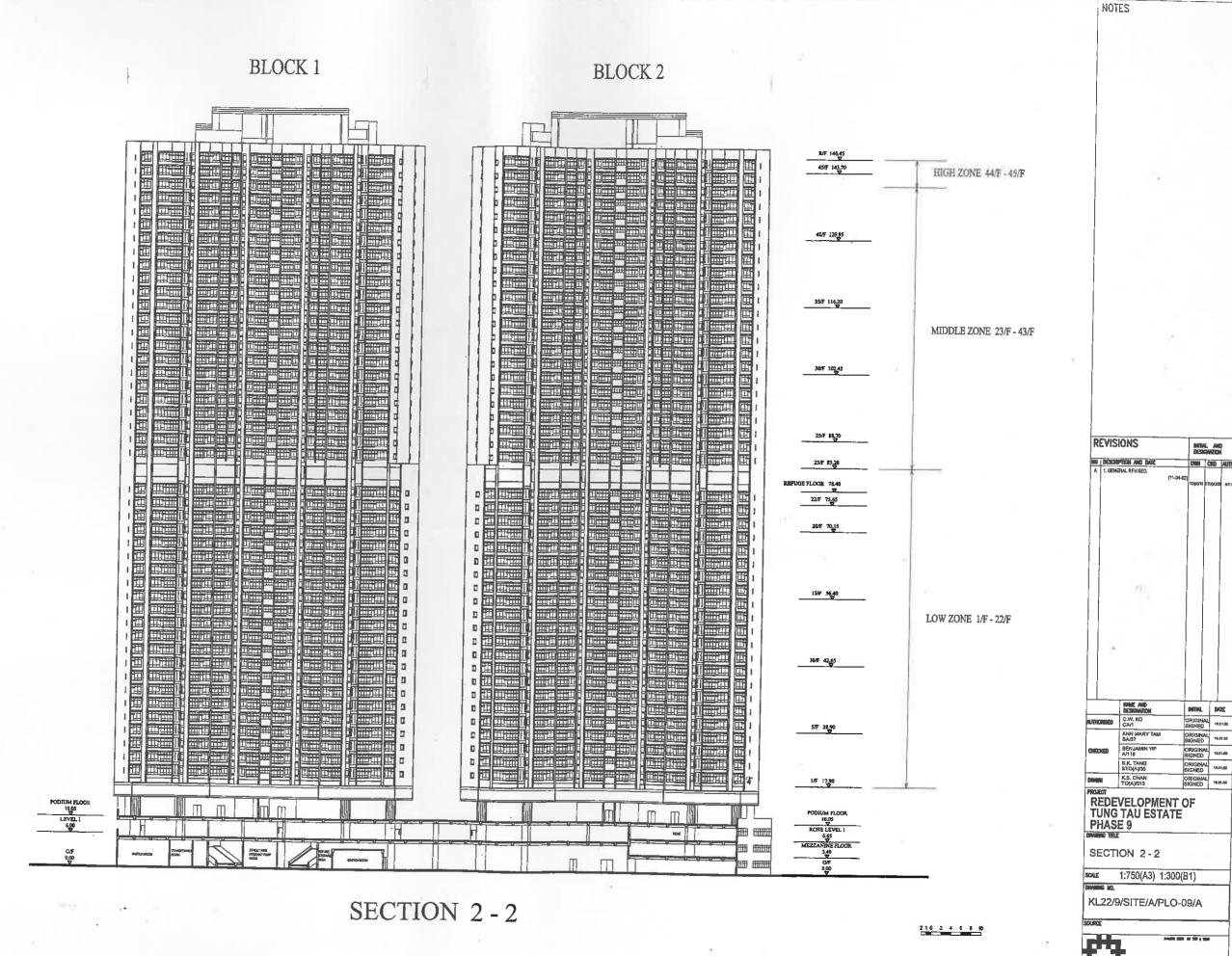


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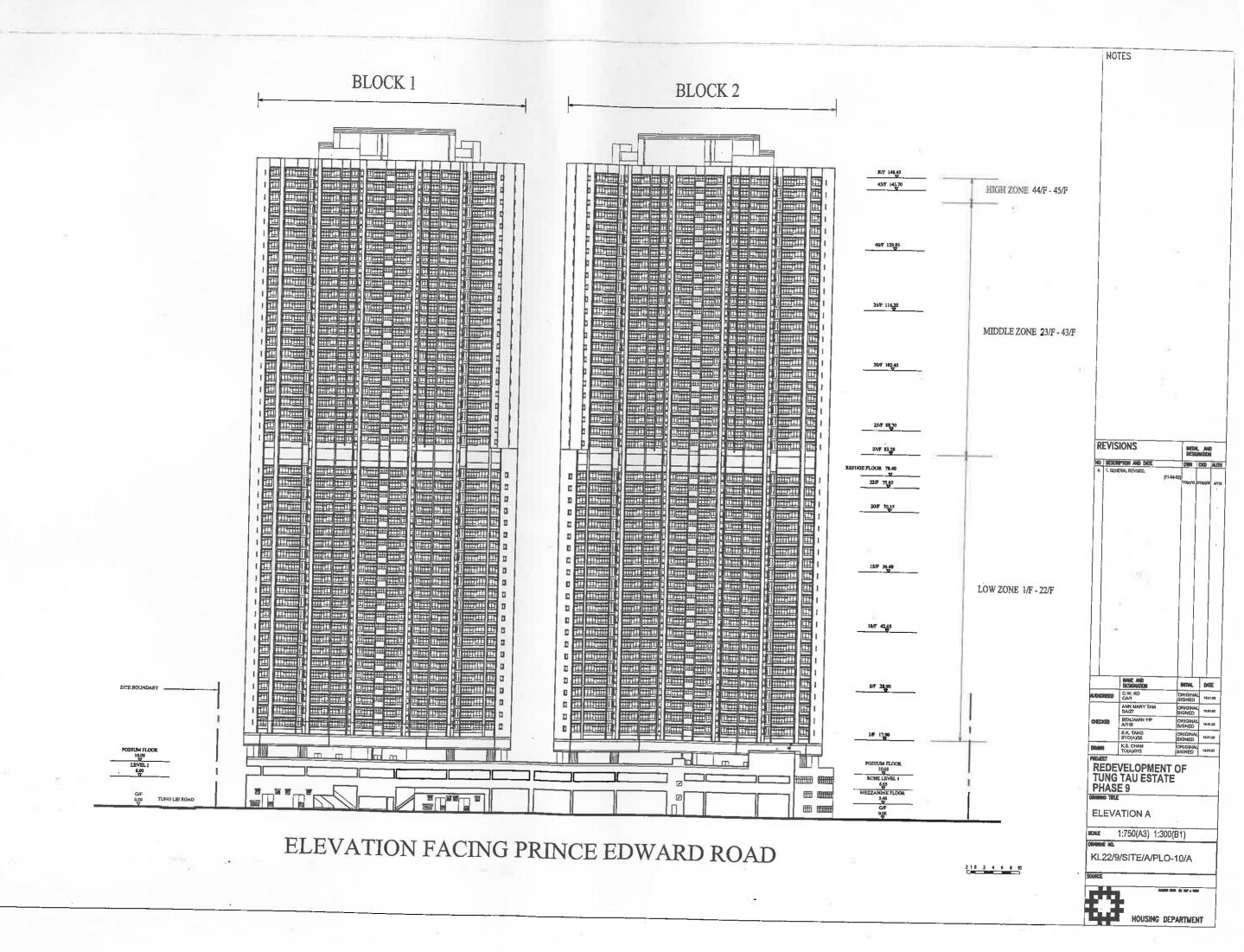
REVISIONS NO DESCRIPTION AND DATE INTIAL DATE ORIGINAL SIGNED 16,01,02 ORIGINAL SIGNED 16,01,02 HOLEX REDEVELOPMENT OF TUNG TAU ESTATE PHASE 9 SECTION 1-1 SCALE 1:750 (A3) 1:300 (B1) DEMONS NO. KL22/9/SITE/A/PLO-08/A HOUSING DEPARTMENT

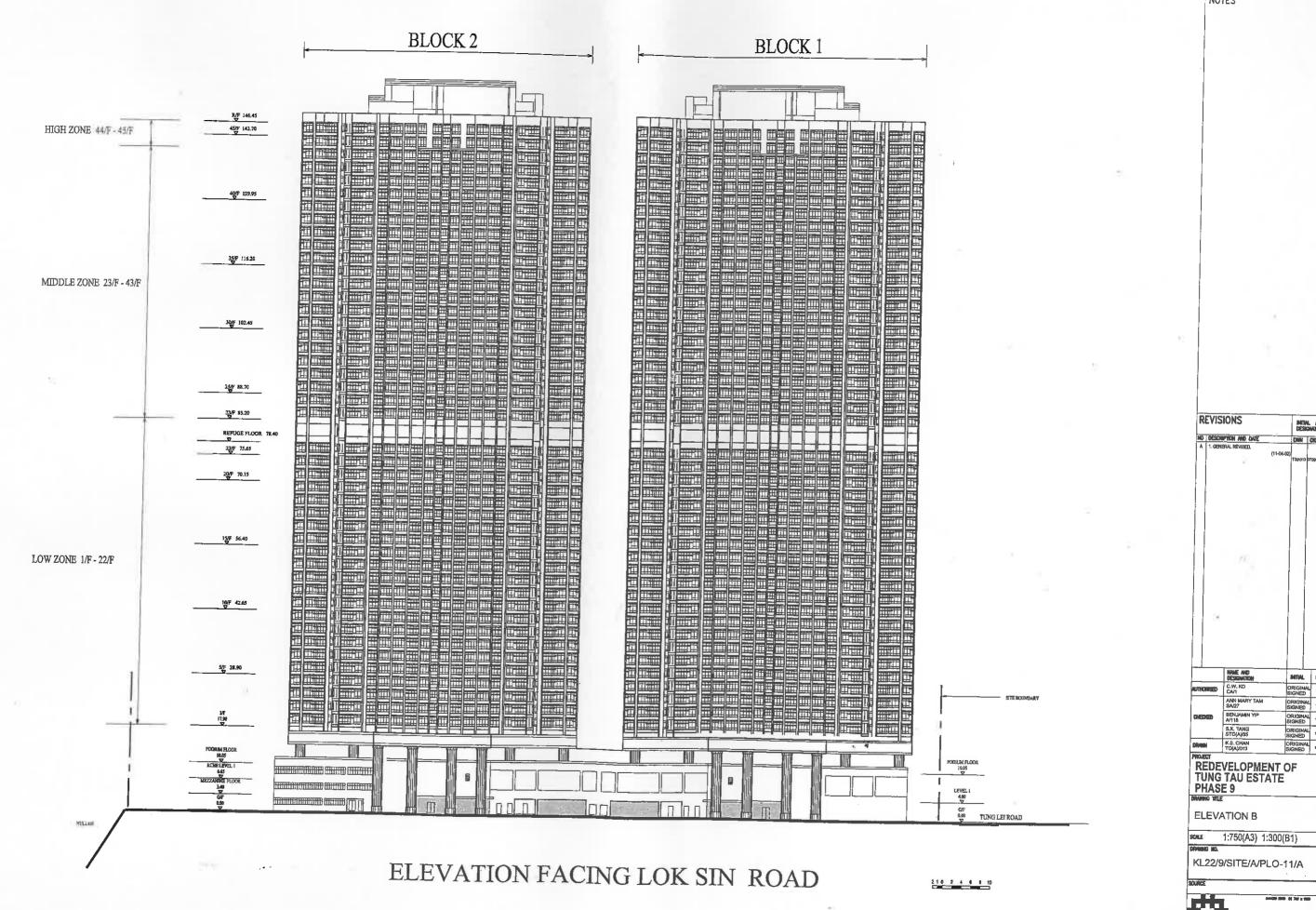
NOTES

SECTION 1-1

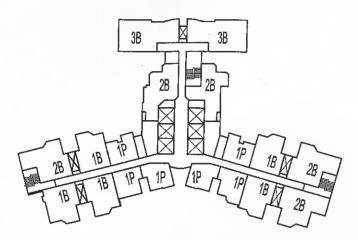


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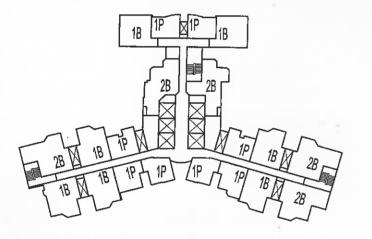




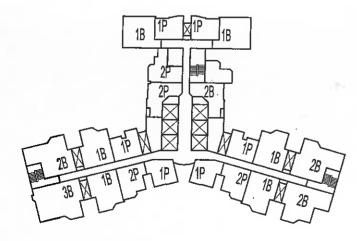
MITAL DOSE HOUSING DEPARTMENT



HIGH ZONE (44/F-45/F, 18 FLATS/FLOOR)



MIDDLE ZONE (23/F-43/F, 20 FLATS/FLOOR)



LOW ZONE (1/F-22/F, 21 FLATS/FLOOR)

# Actual Flat Mix / Production :

,			The second second	wordenstrate To	The reason was	C. (FC ) (V2 )
4	1/2 P	2/3 P	1B	2B	3B	Subtotal
T/F : LOWER ZONE (22 Storeys)	6	4	6	4	1	21
T/F: MIDDLE ZONE (21 Storeys)	8	0	7	5	0	20
T/F : HIGH ZONE (2 Storeys)	6	0	5	5	2	18
BLOCK 1	312	88	289	203	26	918
BLOCK 2	312	88	289	203	26	918
Total	624	176	578	406	52	1836
Overall % mix	33.99%	9.59%	31.48%	22.11%	2.83%	100%
Average Household Size	1.2	2.4	3.1	4.4	6.2	, <u> </u>
Population	749	423	1792	1787	323	5074

Total Flat production = 1,836 units

GFA (FLAT TOTAL) : LOW ZONE =  $(678.58m^2 \times 22)X2$ = 29,857.52m<sup>2</sup> MIDDLE ZONE = (644.71m<sup>2</sup> X 21)X2 = 27,077.82m<sup>2</sup> HIGH ZONE =  $(646.75 \text{m}^2 \times 2) \times 2$ 2,587.00m<sup>2</sup> TOTAL 59,522.34m<sup>2</sup>

TOTAL GFA : LOW ZONE = (890.84m² X 22)X2  $= 39,196.96m^2$ MIDDLE ZONE = (856.12m<sup>2</sup> X 21)X2 = 35,957.04m<sup>2</sup> HIGH ZONE =  $(843.70 \text{m}^2 \text{ X 2}) \text{X}2$  $= 3,374.80m^2$ PODIUM DECK = (93.64+17.84+14.56+14.56)m<sup>2</sup>X2 = 281.20m<sup>2</sup> 1/F = 14.62m<sup>2</sup> 14.62m<sup>2</sup> G/F = (300.92+297.92+17.85+14.85+

72.59)m<sup>2</sup>X2 =\_\_\_776.72m<sup>2</sup> TOTAL GFA = 79,601.34m<sup>2</sup>

OVERALL EFFICENCY = 59,522.34m² / 79,601.34m² = ~ 74.77 %

TOTAL GFA (DOMESTIC) FOR RCHE =  $677.42m^2+720.69m^2+1025m^2 = 2,423.11m^2$ 

TOTAL GFA OF THE DEVELOPMENT = 79,601.34m<sup>2</sup>+2,423.11m<sup>2</sup> = 82,024.45m<sup>2</sup>

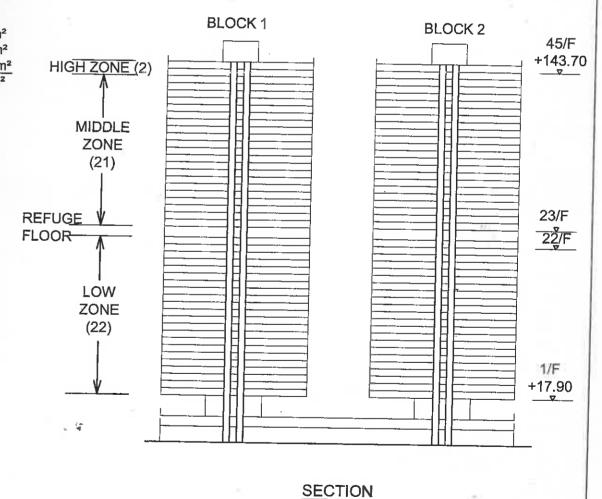
= 82,027.45m<sup>2</sup>/11,189m<sup>2</sup>(SITE AREA) = 7.33 OPEN SPACE REQUIRED: 5,074m2

OPEN SPACE PROVIDED: 6,464m²

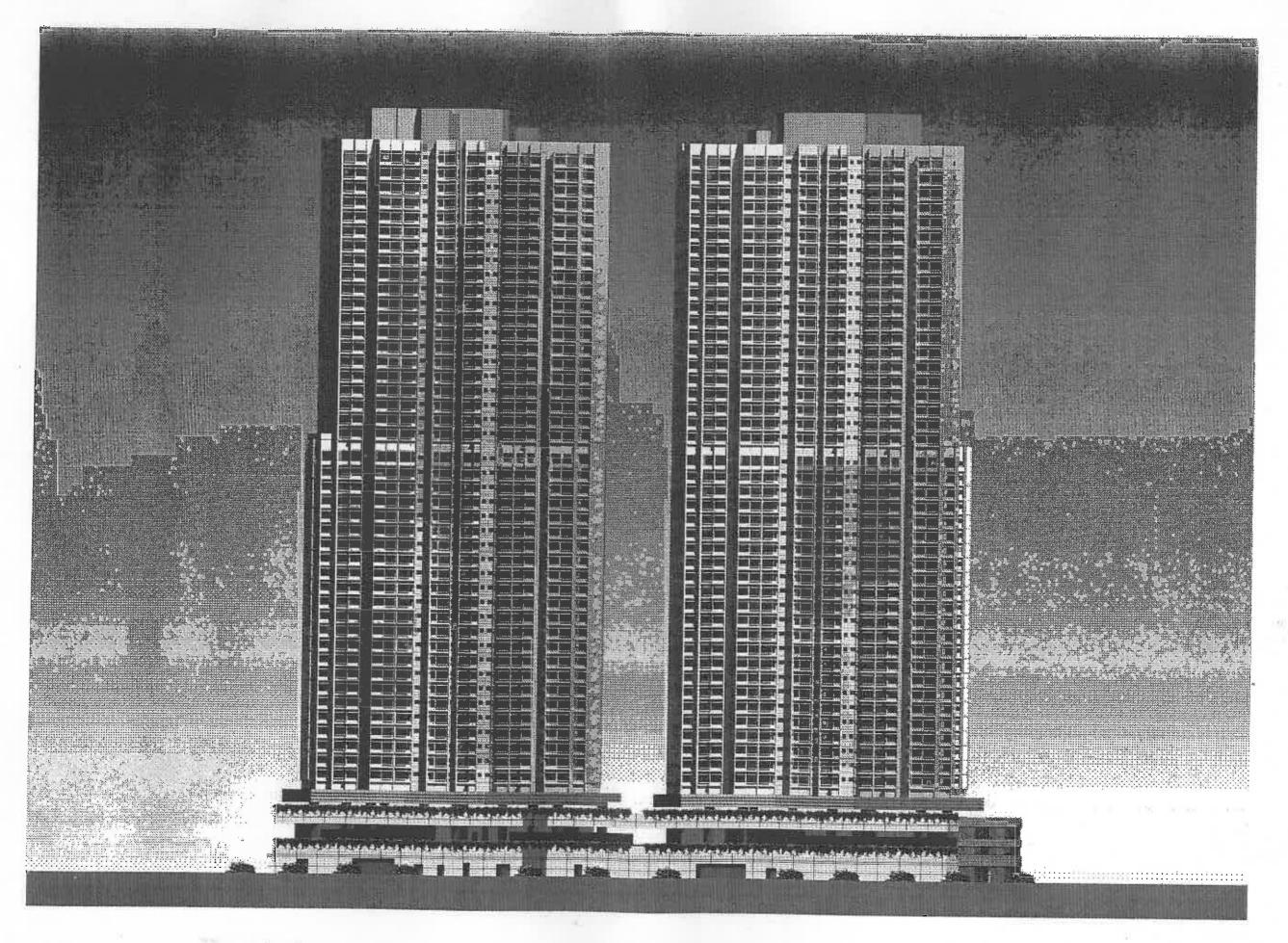
DOMESTIC P.R.

# PARKING PROVISION:

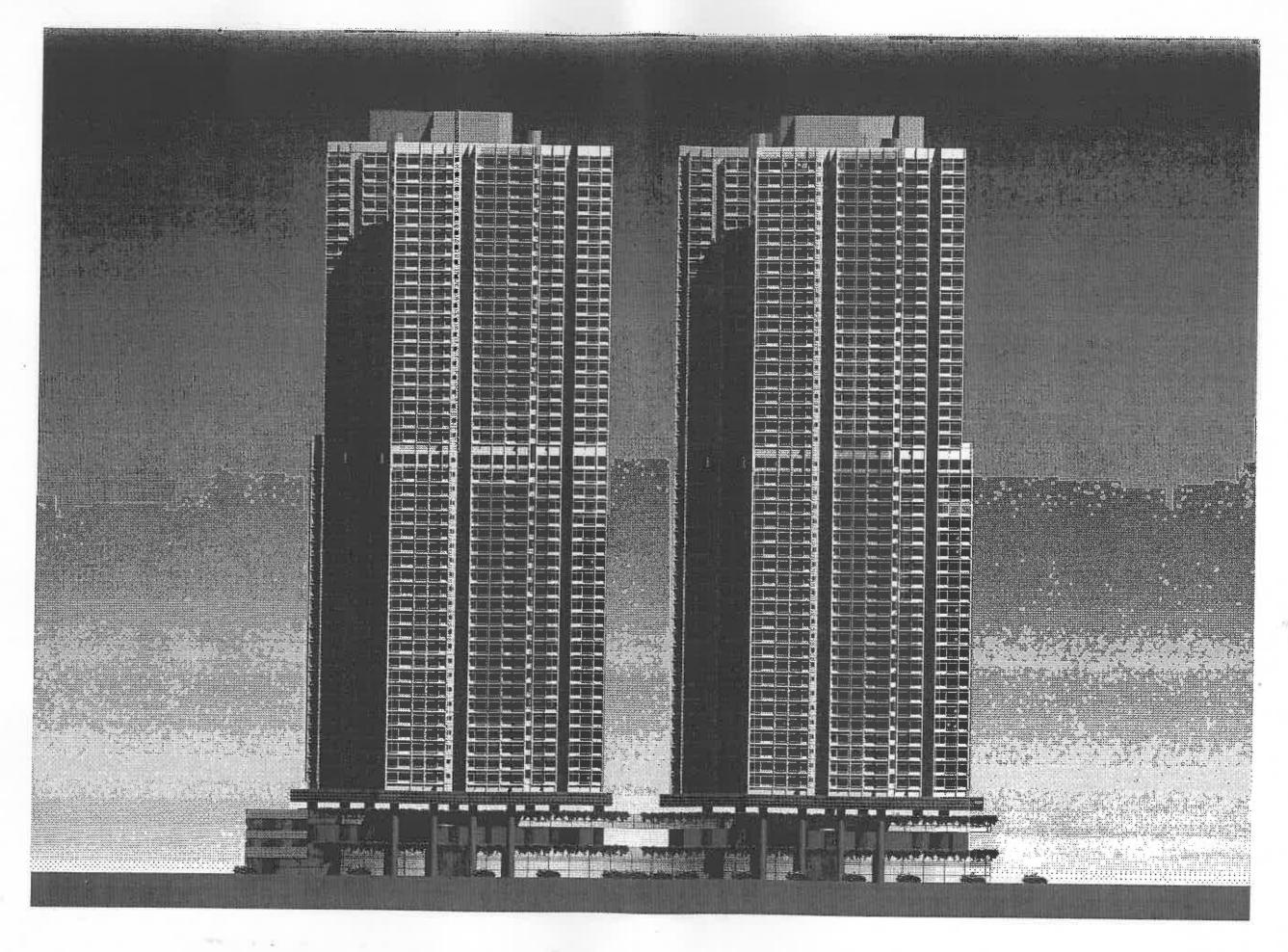
	1 SPACE PER 13 FLATS					
PRIVATE CAR	1,212 (EXCLUDING 1/2P) / 16 =	76				
L.G.V	1,212 / 100 + 1 (FOR RCHE) =	13				
MOTORCYCLE	76 / 10 =	8				
L/UL BAY	2 + 1 (FOR RCHE) =	3				
AMBULANCE LAY-BY	FOR RCHE =	1				



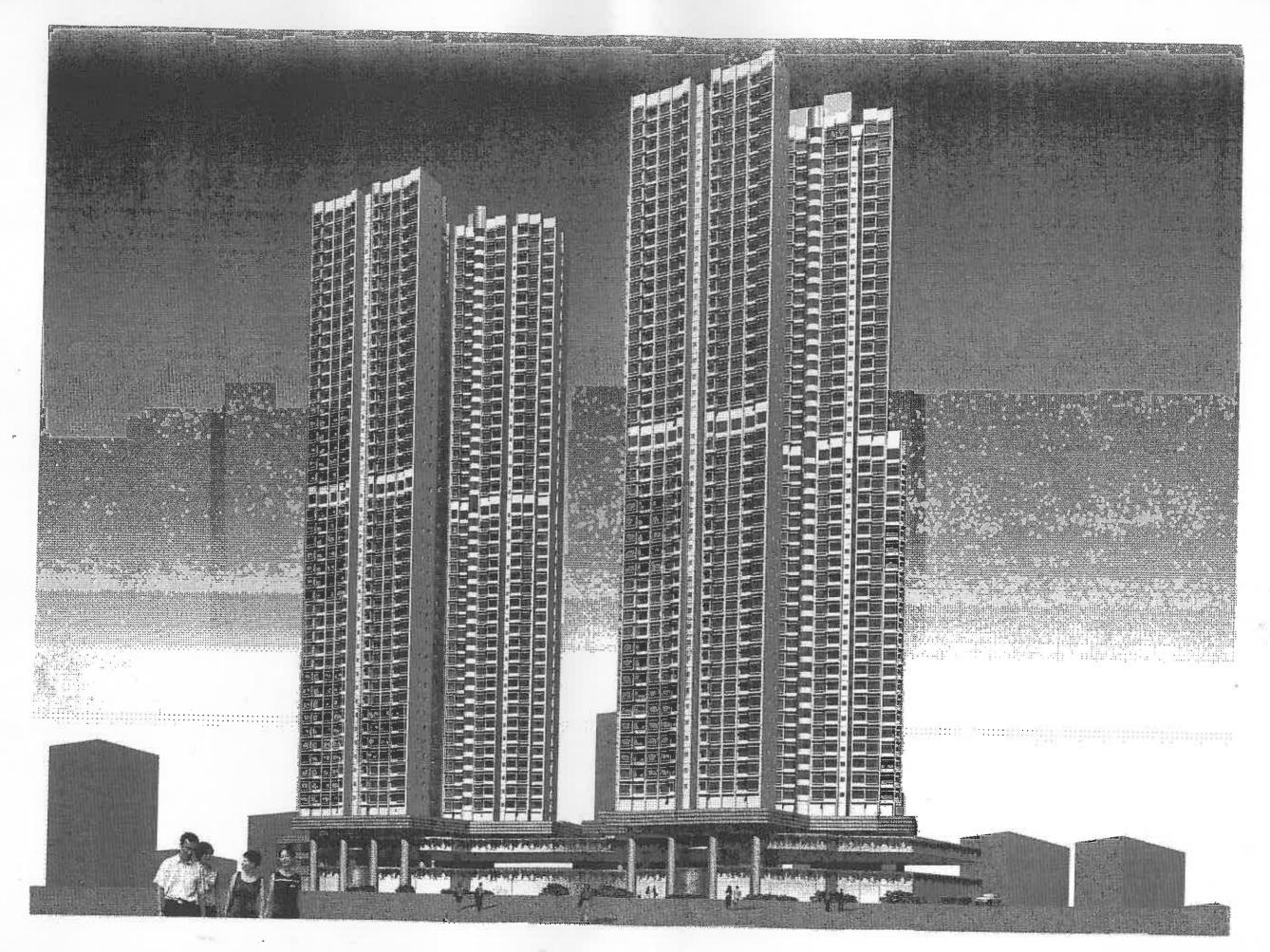
DATE: 13-04-2002

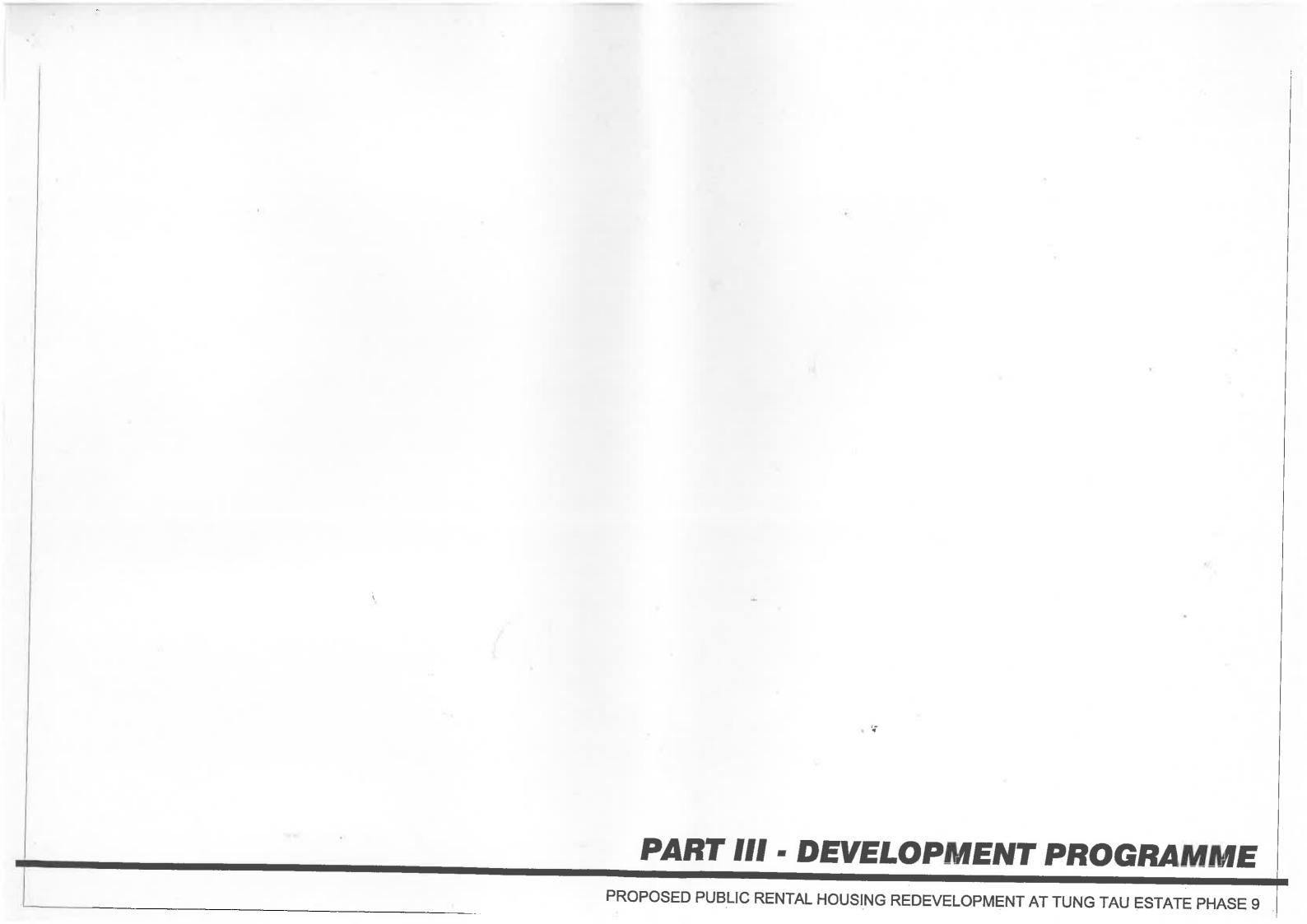


**ELEVATION A (FACING PRINCE EDWARD ROAD)** 



ELEVATION B (FACING LOK SIN ROAD)





# PROPOSED PROJECT DEVELOPMENT PROGAMME - REDEVELOPMENT OF TUNG TAU ESTATE PHASE 9 (AS AT 03/02)

Activity	2001	2002	2003	2004	2005	2006 200	7 7
	1 2 3 4 5 6 7 8 9 10 11 1	2 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	2006 2000	Remarks
1. CLEARANCE							Site Clearance obtained in late 09/01
2. DEVELOPMENT PARAMETER, CONCEPTUAL LAYOUT, FINANCIAL, VIABILITY STUDIES & DESIGN		0RC2 BC DDRP 09/02 09/02					
. DEMOLITION	Tomas is a constant of the con	DNTHS)					
PILING		TENDER OUT	03 03/03 (12 MONTHS)				7 months is allowed for piling     Tender Out after BC.      12 months construction period, including inclement weather.
BUILDING					(36 MONTHS)		36- month construction period allowe for superstructure of 45 domestic storeys with 2 storeys podium and 1 storey refuge floor.

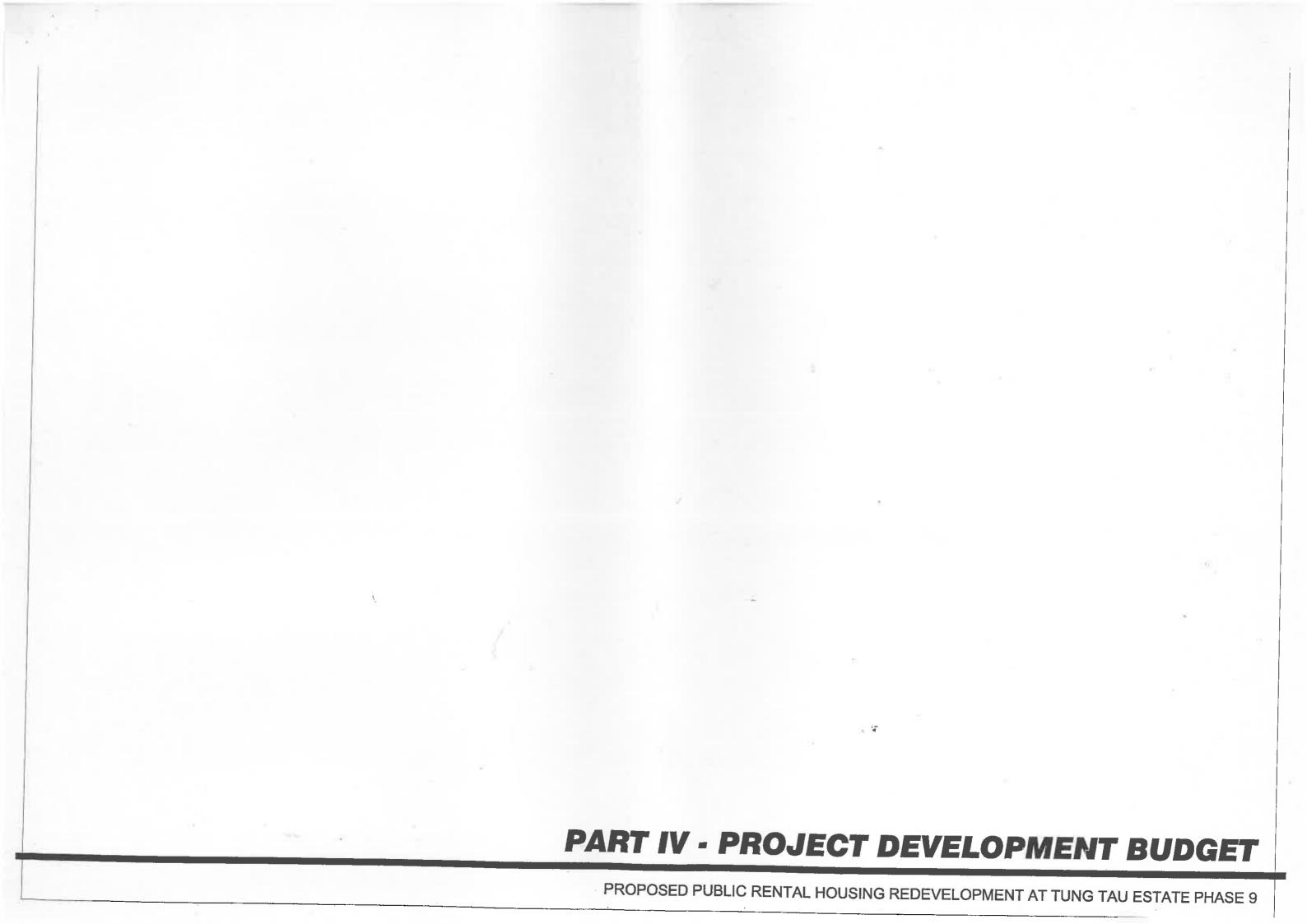
PDRC 1 
ENDORSE DEV. PARAMETER / CONCEPTUAL LAYOUT / COST CEILING

SPC 
APPROVE DEV. PARAMETER / CONCEPTUAL LAYOUT / COST CEILING

PDRC 2 
ENDORSE MASTEER LAYOUT / PROJECT BUDGET

APPROVE MASTEER LAYOUT / PROJECT BUDGET

APPROVE DETAILED DESIGN



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

Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

	COST HEADS	WORK ELEMENTS		BUDGET COST	
a)	Site Development Cost	Site Formation	HA Fund (M\$)	Lotteries Fund (\$M)	Total (\$M)
p)	-Construction Cost	Demolition Sub-total:	11.236 11.236	-	11.236
,		Foundation Building Other separate contract	100.627 500.043 1.668	2.488 12.429 0.041	11.236 103.115 512.472
:)	Other Project Costs	Sub-total : Civil enginnering and geotechnical studies,	602.338	14.958	1.709 61 <b>7.29</b> 6
D	(2% on (a) & (b))	site investigation, material testing and the like	12.271	0.299	12.571
		Total Site Development and Construction Costs (a)+(b)+(c):	625.845	15.257	641,103

# Notes:

- (1). All prices are at June 2001 price level and adjusted for tender price inflation to tender in dates of contracts based on -3.3% per annum from July 01 to Dec 01 and 0.7% per annum from Jan 2002 onwards.
- (2) Apportionment of the Construction Costs are in accordance with the existing cost apportionment guidelines set out in the relevant DCMBI.
- (3) The costs for softlandscaping and utilities connections have been grouped under Other Separate Contracts.
- (4) The fluctuation provisions have been worked out based on the formula as shown on the Guidance Notes for Standard Cost Yardsticks.
- (5) Development Contingencies has been allowed for non-standard blocks/building and elements" in the Site Development and Construction Costs.
- (6) Other Project Costs provided at 2% of the Site Development and Construction Cost which is an allowance for traffic and environmental studies, land surveying studies and other engineering studies, site investigation geotechnical advisory service, construction material test etc. carried out by direct testing contractor, etc.
- (7) The Development and Construction Costs of RCHE and apportioned costs (excluding demolition cost) for the Portion are to be charged to Lotteries Funds.
- (8) A sum of \$130,000 and \$280,000 have been included in "Others"-in Item 6.0 in the External Works for the installation of video-cam system and diversion of services.

### Exclusions:

- (1) Project Management Costs, e.g. professional services & overheads, consultant fees, etc. and other Project Costs, e.g. ancillary project expenses, financing and legal costs/expenses, etc.
- (2) The Development and Construction Costs of RCHE and apportioned costs (excluding demolition cost) for the Portion are to be charged to Lotteries Funds.

# Basis of the Budget:

- (1) Cost of yardsticks have been used in the calculation of building works and building services to all buildings, carpark, welfare/ancillary facilities
- (2) Cost for demolition works is based on the Demolition Contract Sum.
- (3) Revised sketches received on 28 March 2002.

Prepared by:	QS/C8
Date:	

territoria de la figura de la companya del companya del companya de la companya d

						COST PO	RTIONS						-	1			
		PRH	HOS	CC	CP (priva		WEI	PT	I UN	GN		mmon items EW	Total	Total HA+Lott	Total WEL-RCHE	Lotteries Fund WEL - RCHE	
omi					- Q-11th	(L) (LO	v) 1									WEB - RenE	
CFA of Cost Portions (m2)		95,127			3,898	3 96						1	-				
		1			3,076	, Ju,	<b>'</b> [	-	446	-	- 1	420	100,856	103,338	2,482	2,482	
															100%	100%	
COST ITEMS									<del></del>	<del></del>							
A Sia Dala and Sia			Esti	mated Cos	t in \$,000										HA- Wel RCHE		Fluen
A. Site Development & Construction Cost Budget At June 2001					1	1									+ LF- Wel RCHE		Prov
(Excluding Other Project Costs & Tender Price Inflation)		-	-		-	1											
1.0 Site Development Costs		1	1			1				.	1						
1.1 Site Formation Contract		1 .		1		I	. 1				` [	į			1	}	
1.2 Demolition Contract		10,598		-		1 .		-	-	-	-	-	[	- 1	. ~		
L9 Construction Costs		10,270		-	434	107	-	-	50		-	47	11,236	11,236		-	
2.1 Foundation Contract			1		1.						1	1				-	
2.2 Building Contract		96,281	-	-	3,945	977	-		452	-					]		
2.21 Building (excl. building services)		1	1	1			1		452	-	-		101,655	104,168	2,513	2,513	1 .
2.22 Building Services		367,354	1.	-	14,249	3,973	-		1,675					1		20 (4)	
2.23 Transfer Structures		66,202	-		2,410	596	-	1 -	748		-	-	387,251	396,553	9,302	9,302	14,5
2.24 Public Transport Interchange		-	-				-		140		17,393	-	69,956	72,029	2,073	2.073	
2.25 External Works for commonly shared elements		-	-	-	}	1	· -	-	1 -		1	-	17,393	17,821	428	428	57
2.26 External Works for Specific Businesses		-	-	-				-				26.606	25.00	1	- 1	A 25 10	-
2.27 Automated Refuse Collection System		-	-	-	1		-					26,696	26,696	27,353	657	657	83
VIIII VIIII VIIII OJIICIA		-	-	-			-	-				-	1 - 1	1 - 1	1 - 1	-	-
2.3 Other Separate Contracts (incl. Soft landscape)												-	1 - 1			- L	-
st Budget At June 2001 Price Level			-				-	<u> </u>		-		1,668	1,668	1,709	41	41	1 -
	(4	540,435	-	- 1	21,038	5,653	-	-	2,925		17,393	28,411	615,855	630,869			
Cost Budget Projected To			<del>                                     </del>		-						17,525	20,411	013,833	630,869	15,014	15,014	15,94
Proposed Dates of Tenders  ( Cost in Item (A) plus Cost x (v), (w), (y) or (z) )			-				į.										
Cta- pi- 1	Contract		1		j		1									Į.	1 .
Site Development Costs	Total (S'M)	1	1				İ	]			<b>i</b> [			i II.			1
1.1 Site Formation Contract		- 1	-	_									1 1				1
1.2 Demolition Contract	S11.236	10,598	_		434	107	**	-	-	-	- 1	-	-		*	- [	
Construction Costs		1 1	1			107	2		50		1 - 1	47	. 11,236	11,236	-	-	-
2.1 Foundation Contract	čina ise		Į								1				i i		
2.2 Building Contract	\$103.115 \$512.472	95,308	-	-	3,905	967	1128	-	447	_		0	100,627	103,115	2,488		
2.21 Building (excl. building services)	3312.412	366436	-						0			-	100,021	103,113	2,400	2,488	
2.22 Building Services		366,436 66,036	-	-	14.213	3,963	2.50	-	1,671				386,283	395,562	9,279	0.270	
2.23 Transfer Structures		00,036	- [	•	2,404	595	22 F	-	746	•	1		69,781	71,849	2,068	9,279 2,068	14,50
2.24 Public Transport Interchange	4		-	-			2	-	· · ·	~	17,350		17,350	17.777	427	427	- 571
2.25 External Works for commonly shared elements		l i	-	-	-		1.4	-		-		1				427	. 311
2.26 External Works for Specific Businesses		_ [.	-	- 1	-			- 1		-		26,629	26,629	27,284	655	655	831
2.27 Automated Refuse Collection System			- 1/4	-	-		*	-	-	-		- 1					931
			1	-	-		*	-	-	-		- 1		-	- 1		
2.3 Other Separate Contracts (incl. Soft landscape)	\$1.709	-		-				- 8	0	_		1.660		. 500			
Budget Projected To Proposed Dates Of Tenders	\$628,532 (B)	538;378	_	-	20,956	5,632			2,914		17,350	1,668	613,574	628,532	41	41	

Date:

# SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST (EXCLUDING OTHER PROJECT COSTS) BUDGET NO. 2 (cont'd)

# Project: Redevelopment of Tung Tan Estate Phase 9 (PHDP Code: KL22RR)

# Legend for Cost Portions :

PRH - Public Rental Housing

HO - Home Ownership Scheme

CC - Commercial (Shopping) Centre

CP - Carpark

WEL - Welfare Facilities

RCHE - Residential Care Home for Elderly (87% funded by Lotteries Fund)

PTI - Public Transport Interchange

UN - Unallocable

GN - Government Non-reimbursable

TS - Transfer Structure

EW - External Works

### Notes:

- (1) All prices are at June 2001 price level and adjusted for tender price inflation to tender in dates of contracts based on -3.3% per annum from July 01 to Dec 01 and 0.7% per annum from Jan 2002 onwards.
- (2) Apportionment of the Construction Costs are in accordance with the existing cost apportionment guidelines set out in the relevant DCMBI.
- (3) The costs for softlandscaping and utilities connections have been grouped under Other Separate Contracts.
- (4) The fluctuation provisions have been worked out based on the formula as shown on the Guidance Notes for Standard Cost Yardsticks.
- (5) Development Contingencies has been allowed for non-standard blocks/building and elements" in the Site Development and Construction Costs:
- (6) Other Project Costs provided at 2% of the Site Development and Construction Cost which is an allowance for traffic and environmental studies, land surveying studies and other engineering studies, site investigation geotechnical advisory service, construction material test etc. carried out by
- (7) The Development and Construction Costs of RCHE and apportioned costs (excluding the demolition cost) for the Portion are to be charged to Lotteries Funds.
- (8) A sum of \$130,000 and \$280,000 have been included in "Others" in Item 6.0 in the External Works for the installation of video-cam system and diversion of services.

# Exclusions:

- (1) Project Management Costs, e.g. professional services & overheads, consultant fees, etc. and other Project Costs, e.g. ancillary project expenses, financing and legal costs/expenses, etc.
- (2) The Development and Construction Costs of RCHE and apportioned costs (excluding the demolition cost) for the Portion are to be charged to Lotteries Funds.

# Basis of the Budget:

- (1) Project Management Costs, e.g. professional services & overheads, consultant fees, etc. and other Project Costs, e.g. ancillary project expenses,
- (2) Cost for demolition works is based on the Demolition Contract Sum.
- (3) Revised sketches received on 28 March 2002.

Prepared by:	QS/C8
Date:	

### Assumptions:

(I) Nil

4 4

	Cost at June 2001	Price Level			Cost per Flat		
_	2001	Three reads	No. of Flats	Foundation (Incl/ Exel Caps)		Building Service (Incl/ Excl * Caps)	TOTAL
1.0	Non-standard Block	s based on Construction Cost Yardstick	S				
(a)	Block 1	(45 Storeys) (NH1, Opt6)					ļ.
	- 1P Flat	33.02 m2 CFA/Flat (31.90)	312	13,010	114 216		
	<ul> <li>2P Flat</li> <li>1B Flat</li> </ul>	41.31 m2 CFA/Flat (38.90)	88	16,276	114,315	21,628 27,058	148,953
	- 2B Flat	53.94 m2 CFA/Flat (51.20) 70.97 m2 CFA/Flat (68.30)	289	21,252	186,740	35,331	186,349 243,323
_	- 3B Flat	83.58 m2 CFA/Flat (80,20)	203	27,962	245,698	46,485	320,145
		(00,20)	918	32,931	289,354	54,745	377,030
b)	Block 2	(45 Storeys) (NH1, Opt6)					
	- IP Flat	22.00 * 2.00					1
	- 2P Flat	41.77	312	13,010	114,315	21,628	148,953
	- 1B Flat.	53.94 m2 CFA/Flat (51.20)	88 289	16,276	143,015	27,058	186,349
	2B Flat	70.97 m2 CFA/Flat (68.30)	203	21,252 27,962	186,740 245,698	35,331	243,323
	- 3B Flat	83.58 m2 CFA/Flat (80.20)	26	32,931	289,354	46,485 54,745	320,145
	(standard CFA/flat in	bracket)	918			34,743	377,030
-							
	Cost per F	lat x Flat No. = Sub-Total (A)		36,331	319,239	\$'000	
	(Total CFA of sta	andard flat)= 92,212 m2)			: 517,237	60,399	415,969 (\$4511/m2 CFA)
							(\$226563 per flat)
.0	Adjustments to Item	10.11		<		S'000	
	Non-standard domestic	design :-				1	I
a) /	Adjust for non-standar	d formwork .					
5) / 3	Allow for Bay window			27	1,000	-	1,000
<i>i) 1</i> i) i	and for entrance lobbi	es, services rooms for domestic blocks in c	ar park	2,791	2,772 10,333		2,772
) I	Extra for providing fea	tures in the facade		- 6	1,000	_	13,124 1,000
				갓 =	1,000	-	1,000
I A	roject Specific Design	Pt <del>-</del>			ŀ		
) Ā	diust for extra founda	zone and refuge floor tion cost based on the preliminary design			1,730		1 220
) A	djust for structural co	st for high rise construction and reinforcent		52,555	2.	-	1,730 52,555
	mement		ient	120	7,088	-	7,088
A	llow 6mm glazing and	well gasket window for noise abatement		501	230		0
- 41	llow for Air condition	ing for flat with noise level avanction and	ib(A)		230 .	6,480	230
A () A	djust for building serv	ice cost based on actual design			400	. 460	6,480 400
A	liew extra fluctuation	for longer construction period				(3,861)	(3,861)
E	xtra for provision of si	inken planters on podium		-	3,000		3,000
					2,000		2,000
·C	ost per Flat x Flat No	. + domestic portion in carpark= Sub-Total CFA = 95,107 m2)	otal (B)	55,346	30,553	2,619	00.610
	(10	tal CFA = 95,107 m2)				2,019	88,518 (\$931/m2 CFA)
					1	7.	(\$48212 per flat)
					1		0.63% over that calculated
						based on	Standard Yardsticks
De	velopment Continger	ICY		<		\$'000	
ΑI	low 5% for Developm	ent Contingency		4,584		1	
				7,204	17,490	3,151	25,225
		C.L. W.					
		Sub-Total (C)		4,584	17,490	3,151	25,225
				İ			(\$265/m2 CFA)
				i			(\$13739 per flat)
Tot	al Cost of Domestic I	Block - Public Rental Housing.		<		5'000	>
at	June 2001 Price Le	evel = (A) + (B) + (C)	1	05.261	]:	1	
(inc	duding Provisions for	Contract Fluctuations)		96,261	367,282	66,169	529,712
			ĺ	Į		1	(\$5570/m2 CFA)
			1		1	1	(\$288514 per flat)

Mil worder China La Lineau Francia (FAL) - Line (FAL)

# Remark:

Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

Cost at Type 2001 Paice I amit		•	Cost per Space		
Cost at June 2001 Price Level	Space	Foundation	Building Works	Building Service	TOTAL
	(No.)	(Incl/ Excl *	(Inel/ Excl *	(Incl/ Excl *	
		Caps)	Caps)	Caps)	
1.0 Carpark (Integrated Comm./Carpark*	•				
OR Freestanding Carpark Building*) based on Construc					1
on Construction of the Park Building Dassed on Construction	tion Cost	Yardsticks			
Area of which yardstick			ľ		
(a) Carpark Portion is based upon		i			
Motorcycle (7 m2 CFA per space)*		- 44.			2
Private (43 m2 CFA per space)	8.	4,738	22,460	4,530.	31,728
(45 m2 CFA per space)	76	28,430	134,760	27,180	190,370
		-			
*8 nos. of motorcycle space is equal to 2 nos. of private	70				
parking space	78				¥-
		<	e.	000	
Sub-total (A) :-		2,199	10,421	2,102	14.770
(T-v1 CDi)			,,1	4,102	14,722
(Total CFA based on that of Yardstick = 3,325 m2	:				(TA)40-11
& Average CFA per carparking space = 43 m2	)		ļ		(\$4427/m2 CF/
					(\$188744 per spa
.0 Adjustment to Item 1.0 Above		<	5'	000	
respondent to Item 1.0 Above	i				[
a) Adjust for extra foundation cost based on the preliminary des					
b) Adjust for cost based on the design	ign	1,558		300	1,558
Adjust for headroom	İ	- ]	2,644	193	2,837
			505	y	505
			}		0
Sub-total (B) :-	1	1,558	3.149	193	4.000
(Total CEA L. 1			-1	155	4,900
(Total CFA based on Actual Design = 3,898 m2					(\$1257/m2 CFA
& Average CFA per carparking space = 50 m2)		1.		20.21	(\$62821 per space
	ŀ				9% over that calcular
				Uasc.	u on Mandard Yardst
	F	<	\$'0	00	·>
Development Contingency			1	1	
Allow 5% for Development Contingency		188	(70	·	
	- 1	100	679	115	982
Total Cost of Committee			\$'0	00	
Total Cost of Carpark Portion at June 2001		3,945	14,249	2,410	20,604
Price Level = (A) + (B) + Item 3.0	Ŀ	].		-,	-
(including Provisions for Contract Fluctuations)	=	1		- 1	(\$5286/m2 CFA)
	- 1	1.			(\$264154 per space
	1				

<sup>\*</sup> Delete as appropriate

# Notes

- 1. Cost per space in the Total Column respresents the average cost per space including the motorcycle and private car park.
- 2. Foundation cost is based on the apportioned cost of estimated Foundation Cost.
- Building cost is based on the apportioned cost of Carpark under podium of domestic buildings.

Delete as appropriate

Remark:

Foundation cost is based on the apportioned cost of estimated Foundation Cost.

The costs for entrance lobbies and services rooms for domestic blocks under podium in car park are apportioned from Carpark buildings.

A sum of 55M is allowed for providing sunken planters and architectural features, as requested by APM/BSE45 and A/118's fax message received on 14.2.02.

The non-standard domestic design from above items 2(a) to 2(e) are in the sum of \$18,896,000.00 which is about 4.54% (i.e. less than 5 %) of standard yardsticks NH1, Opt.6.

Carpeth Fordon,

Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

Cost at June 2001 Price Level					
The Level	Space (No.)	Foundation (Incl/ Excl * Caps)	Cost per Space Building Work (Incl/ Excl * Caps)	Building Service (Incl/ Excl * Caps)	TOTAL
1.0 Carpark (Integrated Comm./Carpark*  OR Freestanding Carpark Building*) based on Construc	ction Cost	Yardsticks		Caps)	
(a) Carpark Portion  Area of which yardstick is based upon					
- Lorry (84 m2 CFA per space)	11	55,530	301,720	53,090	410,340
Sub-total (A) :-	11	611	3,319	000	>
(Total CFA based on that of Yardstick = 924 m2 & Average CFA per carparking space = 84 m2			J,J19	584	4,514 (\$4885/m2 CFA (\$410364 per spar
Adjustment to Item 1.0 Above  Adjust for extra foundation cost based on the preliminary desi Adjust for cost based on the design Adjust for headroom	ign	319	340 125	- (16)	319 324 125
Sub-total (B):-  (Total CFA based on Actual Design = 965 m2 & Average CFA per carparking space = 88 m2)		319	465	(16)	768 (\$796/m2 CFA) (\$69818 per space % over that calculate
	<-		200	based	on Standard Yardstic
Development Contingency	-		\$'00	ľ	·>
Allow 5% for Development Contingency		47	189	28	264
Total Cost of Carpark Portion at June 2001	<		\$'00	0	>
Price Level = (A) + (B) + Item 3.0 (including Provisions for Contract Fluctuations)		977	3,973	596	5,546 (\$5750/m2 CFA) \$504182 per space

<sup>\*</sup> Delete as appropriate

# Notes

I. Cost per space in the Total Column respresents the average cost per space including the covered lorry parking spaces.

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- 2. Foundation cost is based on the apportioned cost of estimated Foundation Cost.
- 3. Building cost is based on the apportioned cost of Carpark under podium of domestic buildings.
- 4 2 nos. of LGV is at external area and excluded from covered parking space.

- and cost loss brages \_\_\_\_ siles <del>lendlossik</del>e Fordur,

# Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

Cost at June 2001 Price Level		Estimate	d Cost	
File Level	CFA (m2)	Foundation (Incl/ <del>Excl</del> * Caps)	Building (Incl/ Excl * Caps)	TOTAL
1.0 Ancillary/Welfare Facilities in Domestic Block / Other Buildings*) (G/F or Upper Floors)  (a) Ancillary/Welfare facilities (no fitting out included)  RCHE in Carpark	2492	<	S'000—	
- Building (excluding building services) - Building Services  b) Fitting Out for Ancillary/Welfare Facilities  (Total area to be fitted out =m2 CFA)  Other Adjustments for Item 1.0 Above	2,482	2,393	8,859 1,974	11,252 1,974
O Development Contingency Allow 5% for Development Contingency		120	542	662
Total Cost of Welfare / Unallocable Portion at June 2001 Price Level = Total of Items in 1.0 to 3.0 (including Provisions for Contract Fluctuations)  Delete as appropriate		2,513	S'000——————————————————————————————————	13,888 (\$5595/m2 CF.

# Remark:

- 1. Welfare Portion includes the RCHE (approx. 2482m2) in the carpark.
- Foundation cost is based on the apportioned cost of estimated Foundation Cost.
   Building cost is based on the apportioned cost of Carpark under podium of domestic buildings.
- 4. The development and construction costs (excluding demolition) for RCHE is funded by Lotteries Funds.

Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

Cost at June 2001 Price Level		Estimate		
	CFA (m2)	Foundation (Incl/ Exel * Caps)	Building (Inel/ Excl * Caps)	TOTAL
1.0 Ancillary Facilities		<	\$'000	
in <del>Domestic Block</del> / Other Buildings*)				1
(G/F or Upper Floors)	į			
7				
Ancillary facilities (no fitting out included)     in Carpark Building				
- Estate Management Office (excluding building services)				
- Building Services	326	315	1,183	1,498
		<b>-</b> j	636	636
- Maintenance storeroom (excluding building services)	***			
- Building Services	100	96	344	440
			63	63
- Cleansing Contractor's Office (excluding building services)	20			
- Building Services	20	19	69	88
		520	13	13
) Fitting Out St. 4 . W	:			
Fitting Out for Ancillary Facilities				
(Total area to be fitted out = m2 CFA)				
Other Adjustments for Item 1.0 Above				
Titylustments for item 1.0 Above				
Development Contingency				
Allow for 5% Development Contingency				
	1	22	115	137
Total Cost of W. Is.		<	Ciono	
Total Cost of Welfare / Unallocable Portion at		452	3 423	2.00
June 2001 Price Level = Total of Items in 1.0 to 3.0			2,423	2,875
(including Provisions for Contract Fluctuations)	10 W			(\$6446/m2 CFA

# Remark:

1. Unallocable Portion includes the following in the Carpark Building:

F	CFA (m2)
Estate Management Office (EMO)	326
Maintenance storeroom	100
Cleansing Contractor's Office	20
	446

<sup>2.</sup> Foundation cost is based on the apportioned cost of estimated Foundation Cost.

Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

1 Marie Ales Community

Cost at June 2001 Price Level		Estimated Cost		
The Level	CFA (m2)	Foundation (Incl/ Excl * Caps)	Building (Incl/ Excl * Caps)	TOTAL
in Domestic Block / Other Buildings*) (G/F or Upper Floors)  Ancillary/Welfare facilities (no fitting out included)  MAC in Carpark Building (excluding building services) Building Services  Fitting Out for Ancillary/Welfare Facilities (Total area to be fitted out = m2 CFA)  Other Adjustments for Item 1.0 Above  Development Contingency Allow for 5% Development Contingency	20	19 -	69 31	888 31
Total Cost of Mutual Aids Community at  June 2001 Price Level = Total of Items in 1.0 to 3.0 (including Provisions for Contract Fluctuations)		20	5 \$'000 105	125 (\$6250/m2 CFA

# Remark:

- 1. Domestic Portion includes the MAC (approx. 20m2) in the carpark.
- 2. Foundation cost is based on the apportioned cost of estimated Foundation Cost.
- 3. Building cost is based on the apportioned cost of estimated Carpark Cost,

<sup>3.</sup> Building cost is based on the apportioned cost of Carpark under podium of domestic buildings.

. Interpodent Cost Budget	 Transfer Structures - commonly Shared Across Phases
	of the Development and Among Various HA Business)

Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

Cost at June 2001 Price Level	Estimated Cost		
	Building	Others	TOTAL
.0 Transfer Plate	<	\$'000	
a) Transfer structure below Domestic Blocks	16,972	%×:	16,972
Sub-total (A) :-	16,972	\$'000	16,972
Development Contingency Allow 5% for Development Contingency	849	\$'000	849
Sub-total (B) :-	< 849	\$'000	849
Total Cost of Commonly Shared Transfer Structures at June 2001 Price Level = (A) + (B) (including Provisions for Contract Fluctuations)	17,821	\$'000	17,821

<sup>\*</sup> Delete as appropriate

# Notes

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Enteredien 10 Bunger 1 Interes Commony Shared Aurest Preses of the Development and Amongst Various HA Businesses)

# Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

11,016 m2; Total CFA= 103,337 m2; Total LAA = 10,152 m2 Estimated Cost Cost at June 2001 Price Level Foundation Building TOTAL (Incl/Exel \* (Inel/Excl \* Caps) Caps) - 2,000 1.0 External Works (incl. Contract Price Fluctuation) (a) External Works based on Yardsticks 22,266 (b) Add for street fire hydrant pump rooms, refuse collection point, etc. 22,266 405 2,109 2,514 in car park Sub-total (A) 405 24,375 24,780 (\$240/m2 CFA) (\$2249/m2 GEA) - 2'000 2.0 Special External Works (incl. Contract Price Fluctuation) (a) Works in borrowed site area and outside site boundary 641 641 (b) Slopework 630 630 Sub-total (B) 1,271 1,271 (\$12/m2 CFA) (\$115/m2 GEA) 3.0 Development Contingency 20 1.282 1,302 Sub-total (C) 20 1,282 1,302 (\$13/m2 CFA) (\$118/m2 GEA) Total Cost of Commonly Shared External Works ~ 5'000 425 at June 2001 Price Level = (A) + (B) + (C)26,928 27,353 (including Provisions for Contract Fluctuations) (\$265/m2 CFA) (\$2483/m2 GEA) - \$'000 -4.0 Cost of Automated Refuse Collection System at June Price Level 5.0 Development Contingency Total Cost of Automated Refuse Collection System at June \_\_ Price Level = 4.0 to 5.0 (including Provisions for Contract Fluctuations) (\$\_\_\_/m2 CFA) (\$ \_\_\_/m2 GEA)

Softlandscaping  528	Others 5'000	TOTAL
528		1,628
528	1,100	1,628
26	55	81
<	5,000	<u> </u> >
554	1,155	1,709
		(\$17/m2 CFA
	554	2,000

# Remark:

- The cost on external works is based on yardstick.
- Foundation cost is based on the apportioned cost of estimated Foundation Cost.
- 3. Building costs for service such as street fire hydrant pump room and refuse collection point are based on the apportioned cost of estimated Carperic cost.
- 4. A sum of \$130,000 and \$280,000 have been included in "Others" in Item 6.0 for the installation of video-cam system and diversion of services.

Project: Redevelopment of Tung Tau Estate Phase 9 (PHDP Code: KL22RR)

Cost at June 2001 Price Level	Estimated	Cost	T	
	Demolition/ Site Formation*	Others	TOTAL	
1.0 Estimate Cost for Demolition / Site Formation Works *	<	\$'000		
(a) Demolition	11,236	9-	11,236	
b) Site Formation Works	(F)			
Sub-total (A) :-	11,236	\$'000	11,236	
	<	\$'000		
Development Contingency Allow for 5% for Development Contingency	-	-		
Sub-total (B) :-	-	\$'000		
Total Cost of Demolition / Site Formation Works * at June 2001 Price Level = (A) + (B) (excluding Provisions for Contract Fluctuations)	11,236	\$'000	11,236	

<sup>\*</sup> Delete as appropriate

Notes

I. The cost for the demolition works is based on the Demolition Contract Sum.

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