

THE HONG KONG HOUSING AUTHORITY

Memorandum for Building Committee

Proposed Master Layout Plan, Scheme Design & Project Development Budget for Public Rental Housing Development at Shatin Area 2B (Hin Wo Lane)

PURPOSE

To seek Members' approval to the proposed Master Layout Plan, Scheme Design and Project Development Budget for the Public Rental Housing Development at Shatin Area 2B (Hin Wo Lane).

BACKGROUND

- 2. Shatin Area 2B was previously reserved for development of a polyclinic and a general clinic, but following the Hospital Authority's reassessed needs part of the site has been identified as one of HOUSCOM's control projects to boost housing supply.
- 3. The previous clinic site is now divided into two separate portions, the larger part for the construction of public housing, and the remainder for a clinic, smaller than had originally been proposed.
- 4. The housing portion has a gross site area of 0.573 ha. It has been re-zoned from Government, Institution and Community (GIC) to Residential (A), by the Draft Outline Zoning Plan (OZP No. S/ST/13) gazetted on 8 October 1999.
- 5. At its meeting held on 11 September 1999, the Strategic Planning Committee (SPC) approved inclusion of the site in the Public Housing Development Programme (PHDP) to provide 799 flats, and the Project Development Cost Ceiling.

6. Past events which are relevant to this project are as follows –

Date Event (a) 21 May 1999 Client Brief, Control Plan and Project endorsed were by Department's Project Design Review Committee (Paper No. PDRC 28/99 refers) Shatin District Board Consultation (b) 29 June 1999 Inclusion into the Public Housing (c) 11 September 1999 Development Programme (PHDP), approved by the Strategic Planning Committee (SPC) (Paper No. SPC 30/99 refers) (d) 11 February 2000 DipCon Submission: development parameters agreed was endorsed Endorsed by Project Design Review (e) 2 March 2000 Committee for submission the Building Committee (Paper No. PDRC 4/00 refers) Considered by the Building Committee (f) 25 May 2000 and referred back to the Department for re-submission (Papers No. BC 49/2000 and BC 79/2000 paragraphs 8 - 19 refer)

- 7. At their May 2000 meeting, Members expressed reservations about the suitability of -
 - (a) this site for a standard multi-aspect Harmony block;
 - (b) meeting environmental requirements for noise-mitigation measures by a 10-metre high noise barrier and air conditioning to all flats; and

- (c) proximity of pedestrian access with vehicular access to the car park.
- 8. Members directed the Department to reconsider the proposal accordingly.

FURTHER CONSIDERATION

9. All domestic developments need to comply with noise standards laid down in the Hong Kong Planning Standards and Guidelines (HKPSG). Environmental Protection Department (EPD) has issued Practice Note ProPECC PN1/97 outlining noise mitigation measures to comply with these HKPSG standards. For small sites such as this, EPD requires that whatever noise mitigation measures are practicable for the site should be adopted, with any remaining flats affected by noise in excess of maximum standard of 70 decibels, being provided with air conditioning. To comply with these requirements the Department has followed two parallel courses of action, one producing a non-standard site-specific design which fully complies with HKPSG standards without the need for a high noise barrier or air conditioning; and the other, further refinement to the Harmony Block design to make it more site specific and acceptable to EPD.

Non-Standard Design

10. A site-specific, partly single-aspect block has been developed in which all flats are shielded from traffic-generated noise, without the need for a noise barrier or air conditioning. Based on the flat mix of a Harmony 1 Option 6 block a scheme has been developed producing 737 flats. With decreased efficiency due to single-loaded corridors and non-standard design, the construction cost for this design would exceed that of the modified site-specific standard design by 19.5%, and only a small proportion of the flats would benefit from the relatively open views to the north and west. This site-specific option is attached at **Part II** of the **Annex** for Members' information.

Modified Site-Specific Standard Design

- 11. Further discussions have been conducted with EPD at high level which have resulted in a more site-specific solution to the noise problem. The most seriously affected windows in the development are those in the exposed gable ends. By changing these to fixed lights (this does not contravene requirements for ventilation) with a small panel for cleaning, the noise standards can be relaxed. With this measure in place, together with the existing measures in the orientation and setback of the block, EPD has agreed that the noise barrier can be reduced in length, and in height from 10 metres to a nominal 2.5 metres, thus reducing the cost from \$19.9M to \$0.826M.
- 12. These mitigation measures leave 304 of the 799 flats (38%) exposed to noise levels of up to four decibels above the HKPSG standard. Under these circumstances EPD must require the affected flats to be air conditioned, although, in view of the mitigation measures in place, EPD has agreed to not pursue the non-compliance. It is recommended, however, that the affected flats will be provided with air conditioners (at a cost of \$1.739M), and that prior to contract completion a decision taken, depending on the ultimate designation of the block, as to whether the remainder of the flats are similarly provided.

Relocation of Car Park Access

13. Consideration has been given to minimizing the interface between pedestrian and vehicular access. By adopting a non-standard ground floor structural arrangement at Wing B, the car park access can be segregated from the main pedestrian entrance the opposite side of the block.

SCHEME DESIGN PROPOSAL

14. The proposed modified site-specific standard design at paragraphs 11 - 13 above is proposed for Members' further consideration.

- 15. The proposed Master Layout Plan and Scheme Design is illustrated in **Part I** and **Part II** of the attached **Annex**. This follows the development parameters and the conceptual layout endorsed by SPC, while reflecting Members' concerns and the Department's further consideration as noted in paragraphs 7 13 above. Explanatory notes and drawings illustrate the disposition of the housing block, vehicular and pedestrian access and other facilities.
- 16. The proposed development comprises -
 - (a) 1 no. 41-storey New Harmony 1 Option 6 Block on grade, modified with site-specific noise-mitigation features;
 - (b) a 2.5-metre boundary wall cum noise barrier along the west and part of the south sides of the site;
 - (c) a covered car park providing 50 nos. private car parking spaces, located on the northern boundary of the site;
 - (d) Passive and active open space, estate management requirements and associated external works.
- 17. The main features of the design are as follows
 - (a) As the primary means of mitigating traffic-generated noise, the housing block is set back the maximum possible distance from Che Kung Miu Road and Tin Sam Street, and shielded from their traffic-generated noise by a covered car park to the north and a 2.5-metre boundary wall cum noise barrier to the west and south.
 - (b) Supplementary noise mitigating measures by fixed lights in exposed gable-end walls.
 - (c) A 12-metre wide drainage reserve along site boundary to the south must be free from permanent structures.
 - (d) Access from Hin Wo Lane at the south corner of the site, is the only vehicular access acceptable to Highways Department.

(e) To provide required open space, car parking is roofed over with active and passive recreation areas above.

PROPOSED PROJECT DEVELOPMENT BUDGET

18. The proposed Project Development Budget of the public rental housing development at Shatin Area 2B (Hin Wo Lane) is estimated to be \$271.915M. The breakdown of the proposed Project Development Budget is given in **Part IV** of the **Annex** and the key elements are as follows -

-	Cost Heads	Work Elements	Budget Cost (\$M)
(a)	Site Development Cost	Site Formation	-
· · ·		Demolition	-
		Sub-total :	-
(b)	Construction Cost	Foundation	22.673
		Building	214.506
	-	Soft Landscape and Others	0.842
		Sub-total :	238.021
(c)	Other Project Costs [2% on (a) + (b)]	Civil engineering and geotechnical studies, site investigation, material testing and the like	4.760
(d)	Total Site Development %	Construction Costs $[(a) + (b) + (c)]$:	242.781
(e)	Project Management Cost [12% on (d)]	Professional Services and Overheads, Consultant Fees and Consultant Site Staff	29.134
(f)	Project Development Budget [(d) + (e)]		271.915

Note:

Development contingencies of \$4.203M for the standard block superstructure and \$1.120M for non-standard 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 client's requirements.

19. The Project Development Costs of the public rental housing development at Shatin Area 2B (Hin Wo Lane) (calculated using the proposed Project Development Budget and taking into account of the adjustment of the commonly shared items within the Project) compared with the project Development Cost Ceilings as approved in Paper No. SPC 30/1999 are shown as follows -

	(a)	(b)	(c)	(d)	(e)
	Project Development Cost (S/m² CFA)	Project Development Cost Ceiling (S/m² CFA)	Unit Construction Cost (S/m ² CFA)	June 2000 Construction Cost Yardstick (S/m ² CFA)	June 2000 Construction Cost Yardstick adjusted to tender-in date (S/m² CFA)
Domestic (PRH)	7,251	10,812	5,832	5,214	5,379
Carpark	4,048	6,763	3,030	4,095	4,210
LGV	1,210	1,506	1,059	-	-

Note:

For comparing with the 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.

- 20. The Project Development Costs are below the Project Development Cost Ceilings approved by the Strategic Planning Committee vide Paper No. SPC 30/1999.
- 21. The difference between the Unit Construction Cost (excluding external works) and the Cost Yardstick adjusted to the time of tender is mainly attributable to the following -
 - (a) Additional allowance for single block project: (+ \$8.008M).
 - (b) Adjustment for foundations to domestic block: (+ \$2.948M).
 - (c) Provision of air conditioning to 38% of the flats: (+\$1.739M)
 - (d) Others: (-\$0.921M).

22. The Project Development Cost for the domestic PRH building can be further broken down into Cost per Flat as follows -

	(a)	(b)	(c)	(c)
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 (\$)
1P/2P	\$231,307	\$186,041	\$166,160	\$171,456
2P/3P	\$282,064	\$226,865	\$202,960	\$209,429
1B	\$371,251	\$298,598	\$266,810	\$275,314
2B	\$495,243	\$398,326	\$355,980	\$367,326

Note

For comparing with the 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.

AVAILABILITY OF FUNDS

23. The estimated annual expenditure of the Proposed Budget is shown below, and will be included in the Authority's next capital budget update —

		Estimated Expenditure (\$M)		
	2000/2001	2001/2002	Post 31.3.2001	Total
Estimate	5.200	58.650	208.065	271.915

24. Provision in the Housing Authority's Capital Budget for the year 2000/2001 is \$31.650M (Paper No. FC 2/2000 refers).

DEVELOPMENT PROGRAMME

25. Details of the Development Programme are in Part III of the Annex. Key dates are –

		Event	Date
(a)	Scheme Design	PDRC(2)	3/00
(b)	Design & Budget	BC	7/00
(c)	Detailed Design	DDRP	8/00
(d)	Piling	Commencement Completion	1/01 10/01
(e)	Building	Commencement Completion	10/01 4/04

RECOMMENDATION

26. It is recommended that the proposed Master Layout Plan, Scheme Design and Project Development Budget for the proposed Public Rental Housing Development at Shatin Area 2B at paragraphs 14 to 17 be approved.

DISCUSSION

27. At the next meeting of the Building Committee to be held on 20 July 2000, Members will be invited to approve the recommendation in paragraph 26 above.

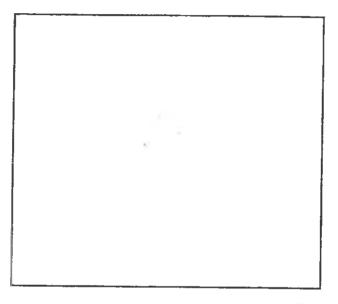
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Date : 14 July 2000

PROPOSED PUBLIC RENTAL DEVELOPMENT AT SHATIN AREA 2B

PROPOSED MASTER LAYOUT PLAN & PROJECT DEVELOPMENT COST BUDGET



BC SUBMISSION, JULY 2000



DEVELOPMENT AND CONSTRUCTION BRANCH HOUSING DEPARTMENT

Amendment Record Sheet

Part I: Master Layout Plan

1. Introduction

- 1.1 Background
- 1.2 Location Plan

2. Site Analysis & Evaluation

- 2.1 Planning and Land Matters
 - 2.1.1 Site Location
 - 2.1.2 Adjacent Land Uses
 - 2.1.3 Zoning Consideration
 - 2.1.4 Land Clearance / Resumption
 - 2.1.5 Height Restriction
- 2.2 Engineering Considerations
 - 2.2.1 Noise
 - 2.2.2 Geotechnical Consideration
 - 2.2.3 Foundation Design
 - 2.2.4 Drainage and Sewerage
 - 2.2.5 Water Supply
 - 2.2.6 Electricity, Telephone, Gas
 - 2.2.7 Traffic Improvement
 - 2.2.8 Drainage Reserve Area
 - 2.2.9 Site Formation

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- 3.1 Site Area
- 3.2 Development Ratio
- 3.3 Flat Number and Flat Mix
- 3.4 Design Population
- 3.5 Refuse Collection Point
- 3.6 Management Accommodation
 - 3.6.1 Estate Management Office
 - 3.6.2 MAC Office
 - 3.6.3 Artisan Workshop
 - 3.6.4 Office for Cleansing Contr.
 - 3.6.5 BW Term Maintenance Contr. Service / Store Room
 - 3.6.6 BS Term Maintenance Contr. Service / Store Room
- 3.7 Open Space
 - 3.7.1 Local Open Space
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4. Circulation and Transportation Matters

- 4.1 Vehicular Access
- 4.2 Pedestrian Access
- 4.3 Control of Ingress / Egress
- 4.4 Emergency Vehicular Access
- 4.5 Pedestrian Network
- 4.6 Parking Provision
 - 4.6.1 Carpark Spaces
 - 4.6.2 Motor-cycle Spaces
 - 4.6.3 Light Goods Vehicle Spaces
 - 4.6.5 Residential Loading/ Unloading
 - 4.6.6 Bicycle Parking

5. Design Consideration

- 5.1 Block Types, Disposition & Orientation
- 5.2 Noise Barrier Design
- 5.3 Landscape Design
- 5.4 Design For the Disabled
- 5.5 Graphics and Signage

Part II: Master Layout Drawings

Part III: Development Programme

Part IV: Project Development Budget

AMENDMENT RECORD SHEET

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4.4 Emergency Vehicular Access	1 1	2 2	3
4.5 Pedestrian Network	1 1	2	3
4.6 Parking Provision	1	2	3
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PART I

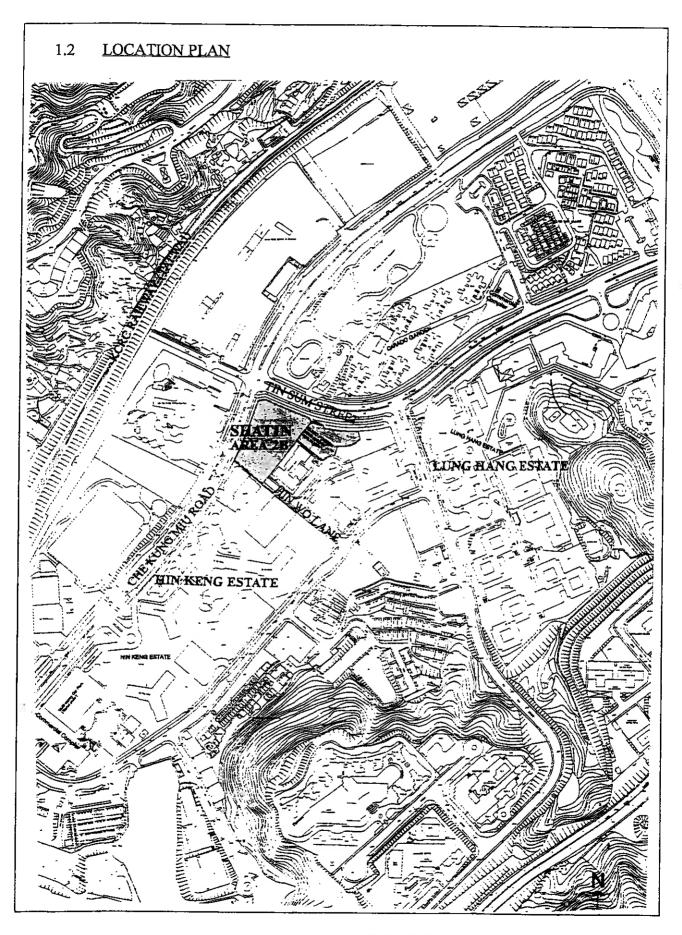
MASTER LAYOUT PLAN

1.1 BACKGROUND

1.

- 1.1.1 The site is bounded by Che Kung Miu Road to the north and Tin Sam Street to the east. To its immediate west is a primary school located within Hin Keng Estate and south is an array of GIC facilities including a neighbourhood community centre, Tim Sum Divisional Police Station and Fire station. The site has a gross area of approx. 0.76ha.
- 1.1.2 Originally, the site was reserved for the development of polyclinic and general clinic only. In view of the projected territory-wide shortfall of housing supply in the period 2001–2006, the Government identified the reserve clinic site in Area 2B as one of HOUSCOM's Control List projects. As a result, two development proposals incorporating public housing of not less than 600 flats and the clinic will be planned, constructed and funded by HD and Health D respectively.
- 1.1.3 The subject site is originally zoned as GI/C and re-zoning of the housing portion to Residential (A) was incorporated into the Shatin OZP No. S/ST/13 which was gazetted on 8.10.1999 and no objection was received.
- 1.1.4 At present, the north-western portion of the site is occupied by Water Services Department under a short-term tenancy as a temporary maintenance yard. The southern portion is used as a temporary carpark. Upon DLO/ST's advice, the entire site can be ready for hand-over to HD and the Health Department for works commencement in October 2000.
- 1.1.5 The approval status of this PRH/BRO scheme is as follows:
 - a) the development parameters, conceptual layout plans and cost estimates had been endorsed with revision on 21.5.1999 (PDRC Paper No. 28/99 refers).
 - the development parameters, conceptual layout plans and cost estimates were subsequently approved by Strategic Planning Committee (SPC) on 11.9.1999 (SPC Paper No. 30/99 refers) for inclusion into the Public Housing Development Programme (PHDP).
 - the planning parameters have been submitted for DIPCON circulation on September 1999 and was endorsed on 11.2.2000.
 - d) On 2.3.2000, the Proposed Master Layout Plan and the Project Development Cost Budget was endorsed by the Project Design Review Committee (Paper No. PDRC 4/00).
 - e) On 2.5.2000, the Project was endorsed by HBB to change to Buy-or-Rent (BRO) Scheme.

1. INTRODUCTION



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PART I - MASTER LAYOUT PLAN

2. SITE ANALYSIS & EVALUATION

Approved Development Parameters	Proposed Master Layout Plan	Remarks
2.1 Planning and Land		
Matters		
2.1.1 Site Location Shatin Area 2B, is bounded by Che Kung Miu Road to the north and Tin Sam Street to the east.		The site is relatively flat with no slope in the adjoining areas.
2.1.2 Adjacent Land Uses To the west a primary school and the south GIC facilities such as neighbourhood community centre, police station and fire station.		1.80
2.1.3 Zoning Consideration The Shatin Outline Zoning Plan No. S/ST/13 was gazetted on 8 October 99 and no objection within the statutory period was received.	As in the Approved Development Parameters.	
2.1.4 Land Clearance/		22
Resumption	As in the Approved	STT for temporary WSD yard
No specific requirement.	Development Parameters.	due to expire by 10/00
2.1.5 <u>Height Restriction</u> Nil	As in the Approved Development Parameters.	
2.2 Engineering Considerations 2.2.1 Noise Study to be undertaken by HD.	HD, together with HD's consultant, Ove Arup & Partners Hong Kong Ltd. (ARUP) and EPD have agreed a series of site-specific noise mitigation measures comprising—	
	Optimum block orientation and maximum possible setback from surrounding noise sources;	

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2. SITE ANALYSIS & EVALUATION

Approved Development	Proposed Master Layout	Remarks
Parameters	Plan	
	- Fixed lights of gable- end windows most exposed to traffic noise; - A 2.5-metre high noise barrier. These mitigation measures leave 38% of flats exposed to noise levels of up to 4	Under these circumstances EPD must require the affected flats to be air conditioned, although in view of the noise mitigation measures in place, EPD has agreed not to pursue the non-compliance. However, it is recommended that the affected flats will be
	decibels above the HKPSG standard.	provided with air conditioners.
2.2.2 Geotechnical Considerations No specific requirement	As in the Approved	The site is underlain by
= ***	Development Parameters.	superficial deposits and insitu weathered soils down to some 45m to 60m below ground.
2.2.3 Foundation Design No specific requirement	As in the Approved Development Parameters.	Deep foundations are recommended for the building block, shallow footings for other lightly loaded structures.
2.2.4 <u>Drainage and Sewerage</u> To be undertaken by DSD/HD Study to be undertaken by HD	As in the Approved Development Parameters.	Reference: Report on Local Sewerage Network Assessment carried out by HD's consultant, Ove Arup & Partners Hong Kong Ltd.
2.2.5 <u>Water Supply</u> To be undertaken by WSD	As in the Approved Development Parameters.	
2.2.6 Electricity, Telephone, Gas To be undertaken by utility companies.	As in the Approved Development Parameters.	
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2. SITE ANALYSIS & EVALUATION

Approved Development Parameters	Proposed Master Layout Plan	Remarks
2.2.7 Traffic Improvement No specific requirement	As in the Approved Development Parameters.	Traffic improvement has been covered by CED's Supplementary Traffic Impact Assessment.
2.2.8 <u>Drainage Reserves</u> Drainage reserve areas, one of 6m wide to the north and one of 12m alongside the southwestern boundary of the site.	As in the Approved Development Parameters.	DLO & DSD has raised no objection to the proposed deletion or modification.
2.2.9 Site Formation No site formation work is required for the housing portion.	As in the Approved Development Parameters.	Health Department is responsible for the works of the clinic portion.
(Clinic Portion) To be undertaken by ArchSD	20	n
41 21		

3. ACCOMMODATION AND FACILITIES

Approved Development Parameters	Proposed Master Layout Plan	Remarks
3.1 <u>Site Area</u> 5,761 m ²	As approved in SPC Paper No. 30/99 dated 11 September 1999.	Ξ
3.2 Development Ratio Permissible DR: 5-7	Development Ratio (D.R.) Calculation Gross Floor Space NH1 Opt. 6 = 38,253 m ² (933 m ² x 41) Area attached in Wings B & C = 106 m ² Total : 38,359m ² Development Ratio : =38,359/ 5,761 = 6.65 < 7	•5
3.3 Flat Number and Flat Mix The proposed public rental housing development is planned to provide a total of 799 flats.	The proposed development provided one standard New Harmony 1 Opt 6. The flat mix is as follows: Flat 1/2P 2/3P 1B 2B Nos. 159 320 160 160 % 19.9 40.1 20.0 20.0	

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3. ACCOMMODATION AND FACILITIES

Approved Development Parameters	Proposed Master Layout Plan	Remarks
3.4 <u>Design Population</u> 2,560 persons (based on Harmony 1 Option 2)	The design population for 799 flats is 2,020 persons	Actual measure of New Harmony I Option 6
3.5 Refuse Collection Point 1 for the whole Estate	To be located at the corner of carpark. (110m ² IFA).	F&EHD consulted; subject to a test run of refuse collection vehicle
3.6 Management Accommodation		
3.6.1 Property Management Unit Office 1 for the whole estate	To be located at G/F of Wing C.	As per SHM/D&V's "Standard Provisions for Rental Estate" for the project dated 5.5.99.
3.6.2 M.A.C. Office 1 for each block (15 -20 m ² IFA)	To be provided at G/F of Wing B (23.5 m ² IFA).	Ditto.
3.6.3 Artisan Workshop 1 for the whole estate, to be detached from the Main EMO (20-40 m ² IFA)	To be provided at G/F of Wing B (28.7 m ² IFA).	Ditto.
3.6.4 Office for Cleansing Contractor 1 for the whole estate (32.5-46.5 m² IFA)	To be provided at G/F as attached to Carpark (17.1 m ² IFA)	(%)
3.6.5 BW Term Maintenance Contractor Service / Store Room 1 for the whole estate (70-100 m² IFA)	To be provided at G/F of Wing B (59.9 m ² IFA)	

3. ACCOMMODATION AND FACILITIES

Approved Development Parameters	Proposed Master Layout Plan	Remarks
3.6.6 BS Term Maintenance Contractor Service / Store Room 1 for the whole Estate (70-100 m² IFA)	To be provided at G/F attached to Wing B (64.3 m ² IFA).	
3.7 Open Space		
3.7.1 Local Open Space Minimum 2,560 m ² 3.7.2 Recreation Facilities 205 m ² . Children	Not less than 2,560 m ² is provided to serve the proposed development.	Rate of Provision 1 m² per person (2,020 m²/2,020 persons)
Playing Area required.	Not less than 205 m ² of CPA is provided at the carpark roof garden.	Rate of Provision 400 m ² per 5,000 persons (167 m ² /2,020 persons)
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4. CIRCULATION AND TRANSPORTATION MATTERS

A	approved Development Parameters	Proposed Master Layout Plan	Remarks
4.1	Vehicular Access		
	Main access from Hin Wo Lane	As in the Approved Development Parameters	
4.2	Pedestrian Access		3.5
- 61	No special requirement	Pedestrian access is provided at two points: at south-east giving access to the adjoining Hin Keng Estate and existing bus stops; and at north-west giving access to the nearby KCR station and Che Kung Miu Road	C#
4.3	Control of Ingress and		
	Egress		
3	No special requirement	Guard kiosk, drop gate to be provided at the vehicular entrance; automated carpark control system to be provided later by carpark operator as required.	Reference: SHM/D&V's "Standard Provisions for Rental Estate" for the project dated 5.5.99 External Works Design Guide (BTG-EW)
4.4	Emergency Vehicular Access (EVA)		
	No special requirement	Domestic block shall be accessible with EVA.	FSD consulted; No objection raised
4.5	Pedestrian Network		e a
	No special requirement.		

4. CIRCULATION AND TRANSPORTATION MATTERS

Approved Development Parameters	Proposed Master Layout Plan	Remarks
4.6 Parking Provision	10	
4.6.1 Carpark Spaces		
50 Nos. (adopting the low end of carpark ratio with consent of TD, Memo dd 15.2.00 Ref.: NR182/191 — 41VI) 1 No. of space to be designated for the disabled	As in the Approved Development Parameters	Rate of Provision for carpark 1 per 9-13 flats (excluding 1P/2P flats): (799 – 159*) / 13 = 50 Nos. *No. of 1P/2P flats Dimension 2.5m (W) x 5m (L) x 2.4m (H)
4.6.2 Motor-cycle Spaces 3 Nos. 4.6.3 Light Goods Vehicle (LGV) Spaces	As in the Approved Development Parameters	Rate of Provision 5 % of total No. of carpark space.
10 Nos.	8 Nos. provided: (799 – 159*) / 80 = 8 Nos.	Rate of Provision for LGV: 1 space per 80 flats (excluding 1P/2P flats)
	* No. of 1P/2P flats Along the site boundary at the South	TD has no objection to the number of LGV space provided. [PM/2 's memo to TD dated 22 March 00 (ref: HD(PM)55/693/1) refers]
4.6.4 <u>Residential Loading/</u> <u>Unloading</u>		
1 No.	As in the Approved Development Parameters	Rate of Provision per domestic block.
4.6.5Bicycle Parking		
27 Nos.	As in the Approved Development Parameters	Rate of provision for bicycle: 1 space per 30 flats
	DC ISC	

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DESIGN CONSIDERATIONS

	Approved Development Parameters	Proposed Master Layout Plan	Remarks
5.1	Block Types, Disposition and Orientation	As per Approved Conceptual Layout Plan except: i) Orientation of block revised ii) RCP relocated to away from the vehicular and pedestrian entrance.	
5.2	Design of Noise Barrier No special requirement.	As agreed with EPD a 2.5-metre boundary wall cum noise barrier is provided along the western and part of the southern edges of the site.	
5.3	Landscape Design No specific requirement.	Curvilinear planters create a leisure atmosphere and contrasting to the rectilinear building block. Landscaping in the roof garden and pedestrian area is to be designed in a safe and secure manner to improve the built environment and visual quality of the estate.	Reference: External Works Design Guide (BTG-EW)
5.4	Design for the Disabled No special requirement.	All buildings, open space, pedestrian circulation and public transport facilities are designed to cater for the needs of the disabled.	Reference: Design Manual: Barrier Free Access 1997

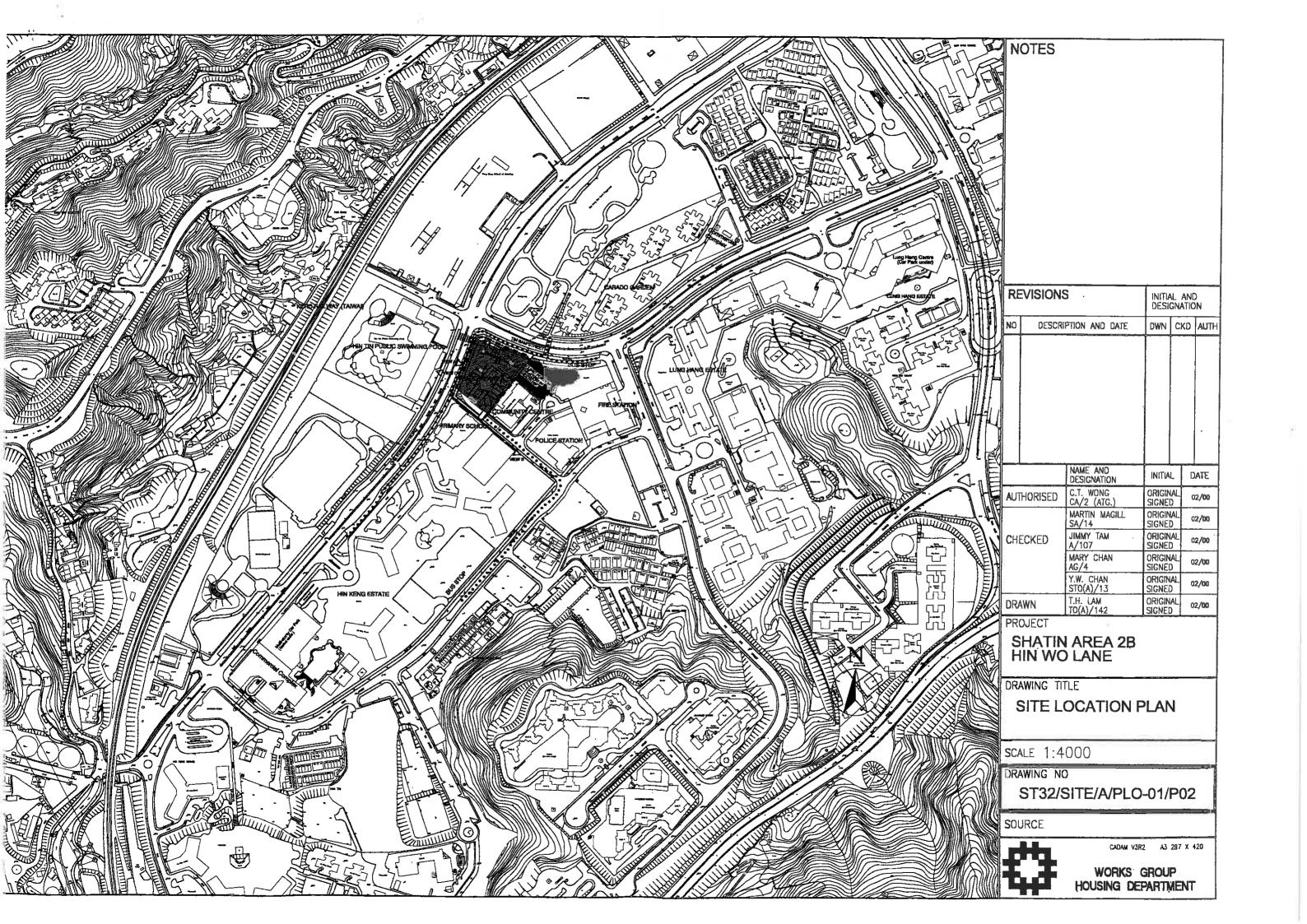
5. DESIGN CONSIDERATIONS

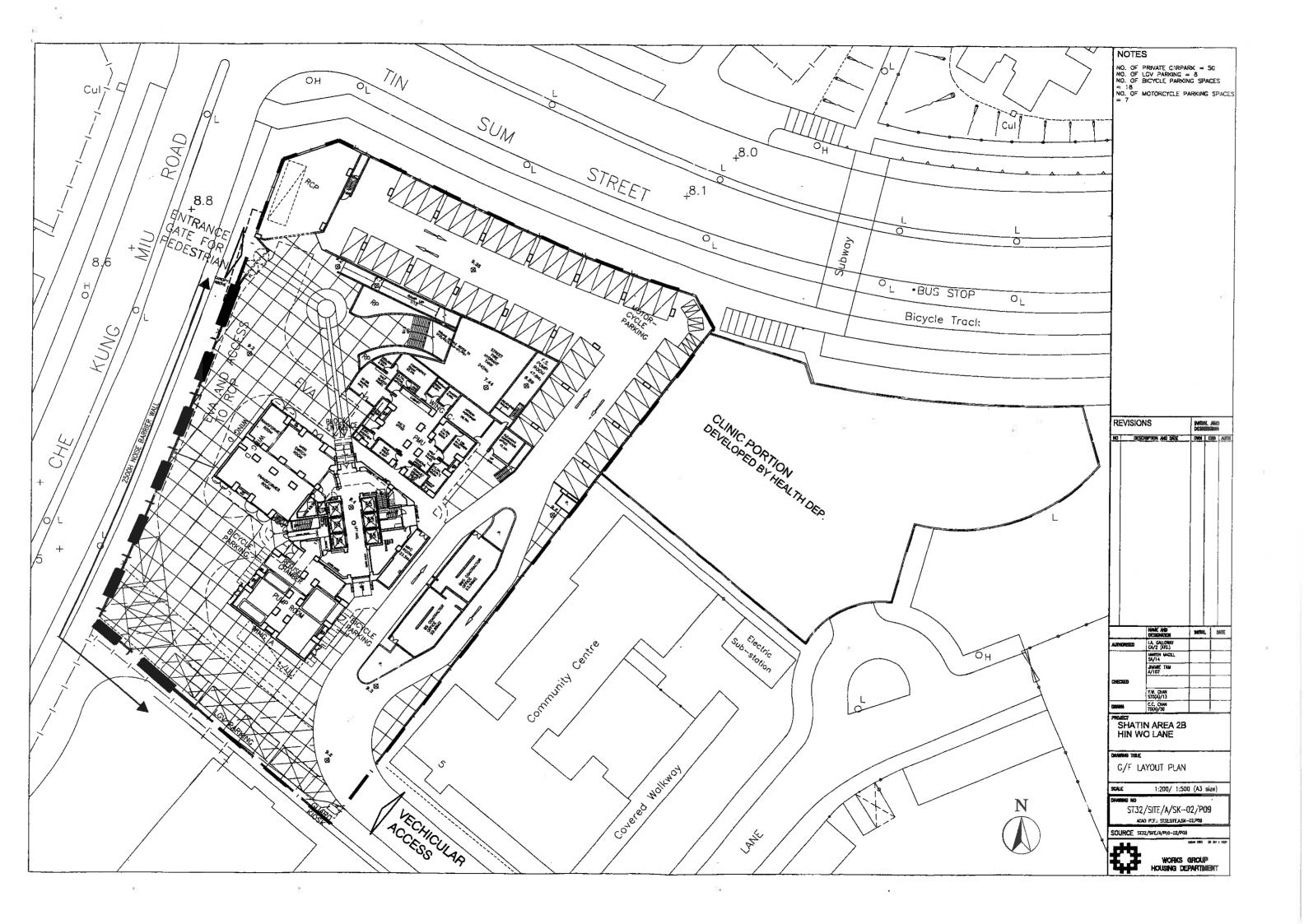
Appr	roved Development Parameters	Proposed Master Layout Plan	Remarks
5.5 <u>Gra</u>	phics and Signage		
No	specific requirement.	Graphics and signage system to be designed in accordance with the D&S's signage manuals.	Reference: Signage Manual for Public Housing Estates.
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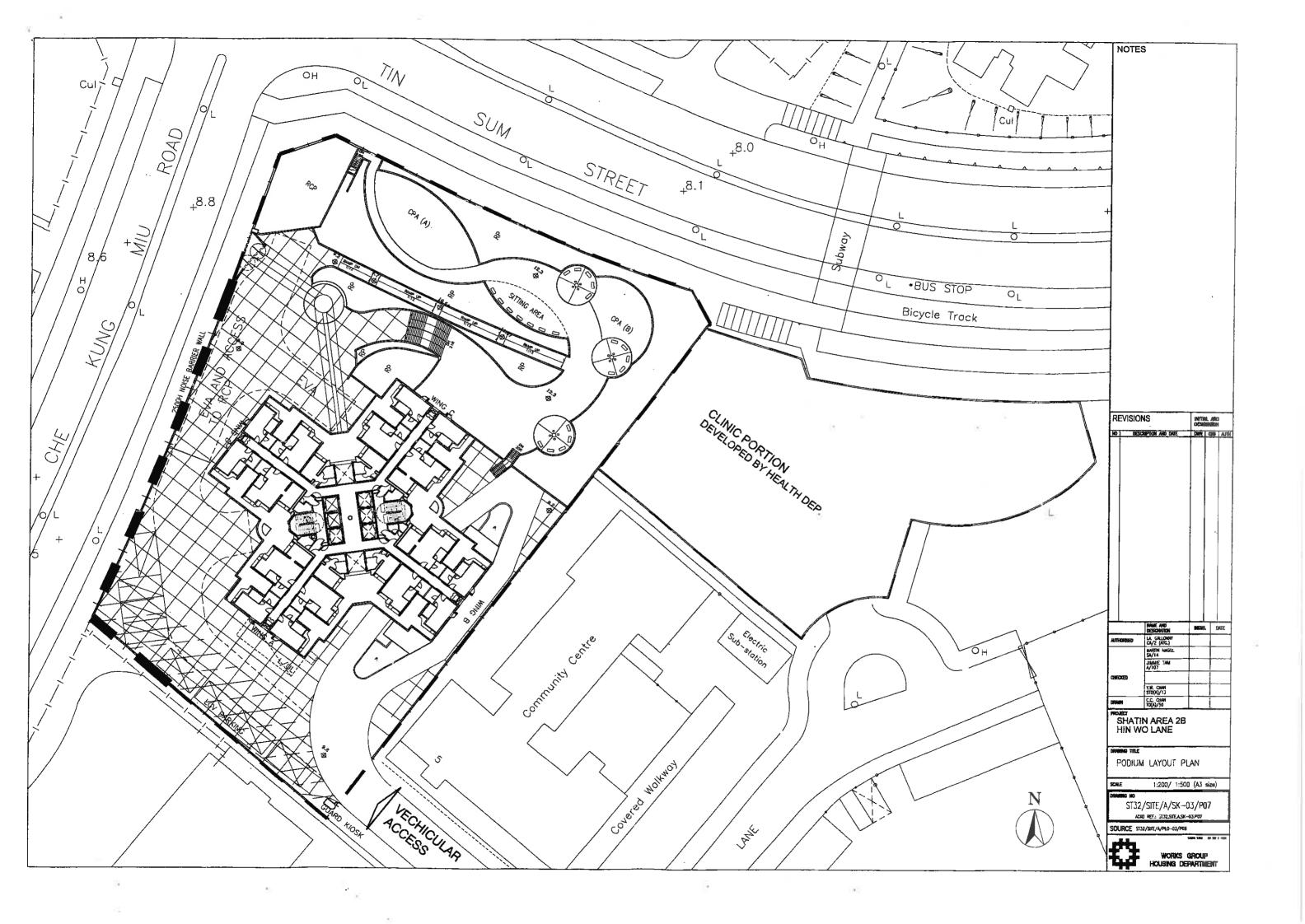
PART II MASTER LAYOUT DRAWINGS

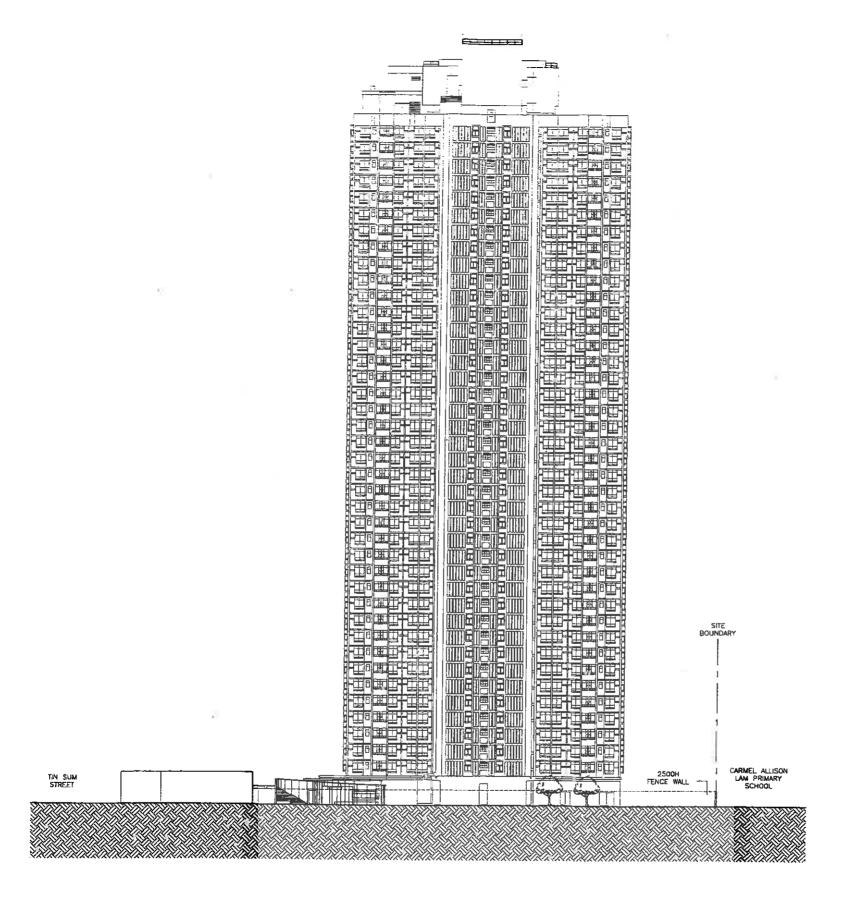
MASTER LAYOUT DRAWINGS

DRAWING LIST : -		
Drawing No.	Revision	Drawing Title
Modified Site-Specific Standard Design		
ST32/SITE/A/PLO-01	P02	SITE LOCATION PLAN
ST32/SITE/A/SK-02	P09	G/F LAYOUT PLAN
ST32/SITE/A/SK-03	P07	PODIUM LAYOUT PLAN
ST32/SITE/A/SK-05	P03	WEST ELEVATION
ST32/SITE/A/SK-06	P04	SECTION A-A
ST32/BL1/A/ SK-01	P03	BLOCK 1 – G/F PLAN
ST32/BL1/A/SK-02	P04	BLOCK 1 – F40 PLAN
Non-Standard Design		
ST32/BLX/A/PLO-01		G/F LAYOUT PLAN
ST32/BLX/A/PLO-02		FIRST FLOOR PLAN
ST32/BLX/A/PLO-03		TYPICAL FLOOR PLAN





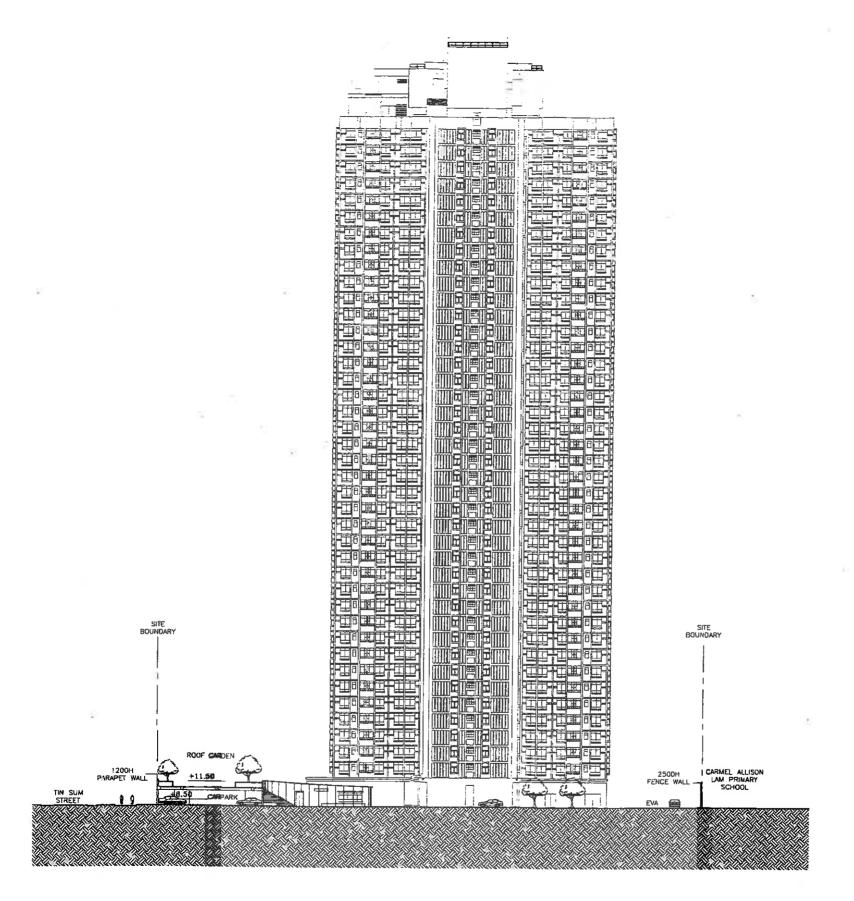




WEST ELEVATION

RE	VISIO	NS CREPTION AND DATE	INITIAL AND DESIGNATION
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AUTHO	हिन्द्रा	DESIGNATION I.A. CALLOWAY CA/2 (ATG.)	NITIAL DATE
		MARTIN MAGILL	
CHECK	_	JIMME TAM A/107	
CHECK	<u> </u>	Y.N. CHAN STD(A)/IJ	
DENNIN		C.C. CHAN TO(A)/50	
	HATI	N AREA 2B O LANE	
	e inte	ELEVATION	
l wi		1:250/ 1:62	5 (A3 size)
SCALE			
_		/SITE/A/SK-	05/P 03
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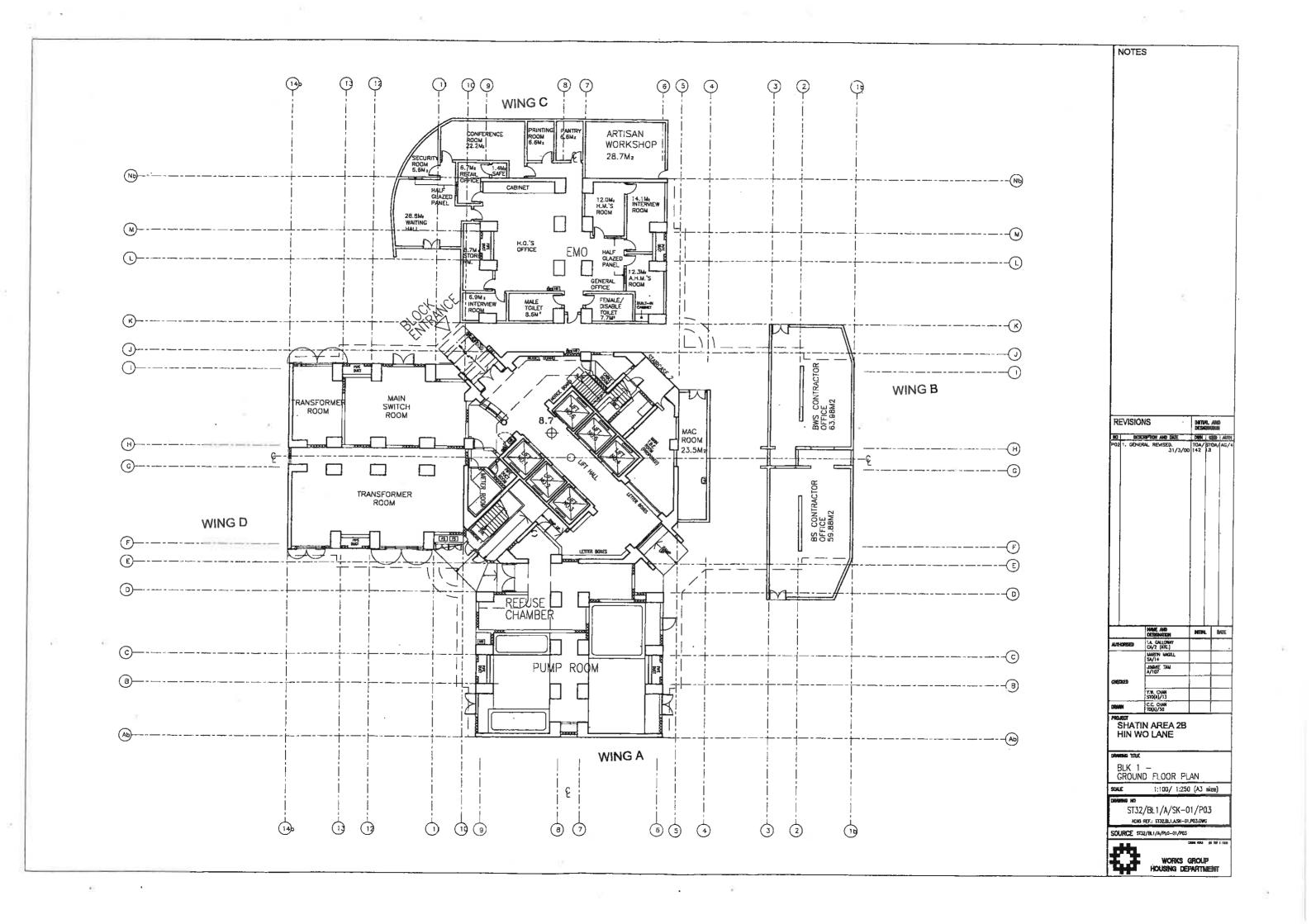
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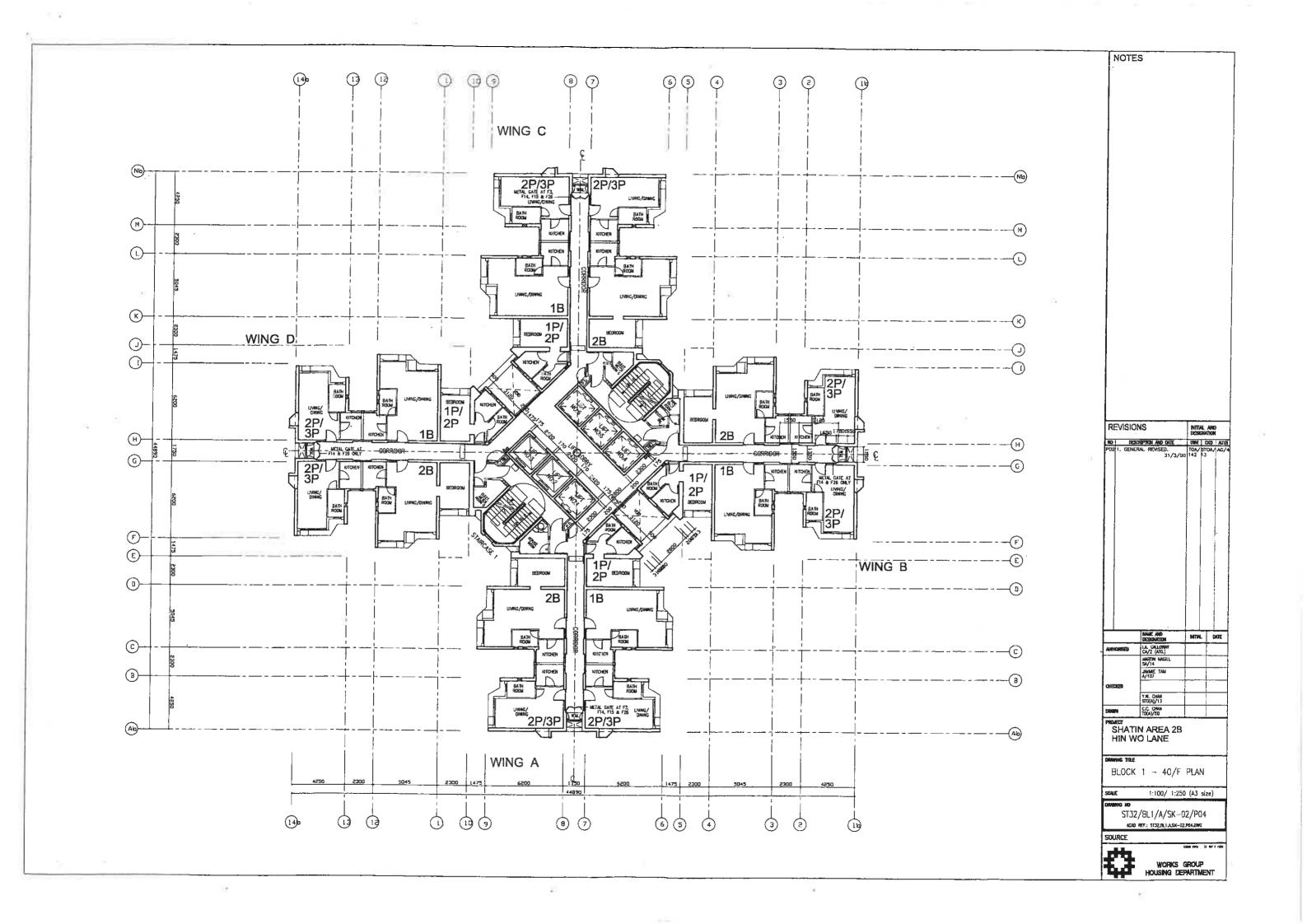


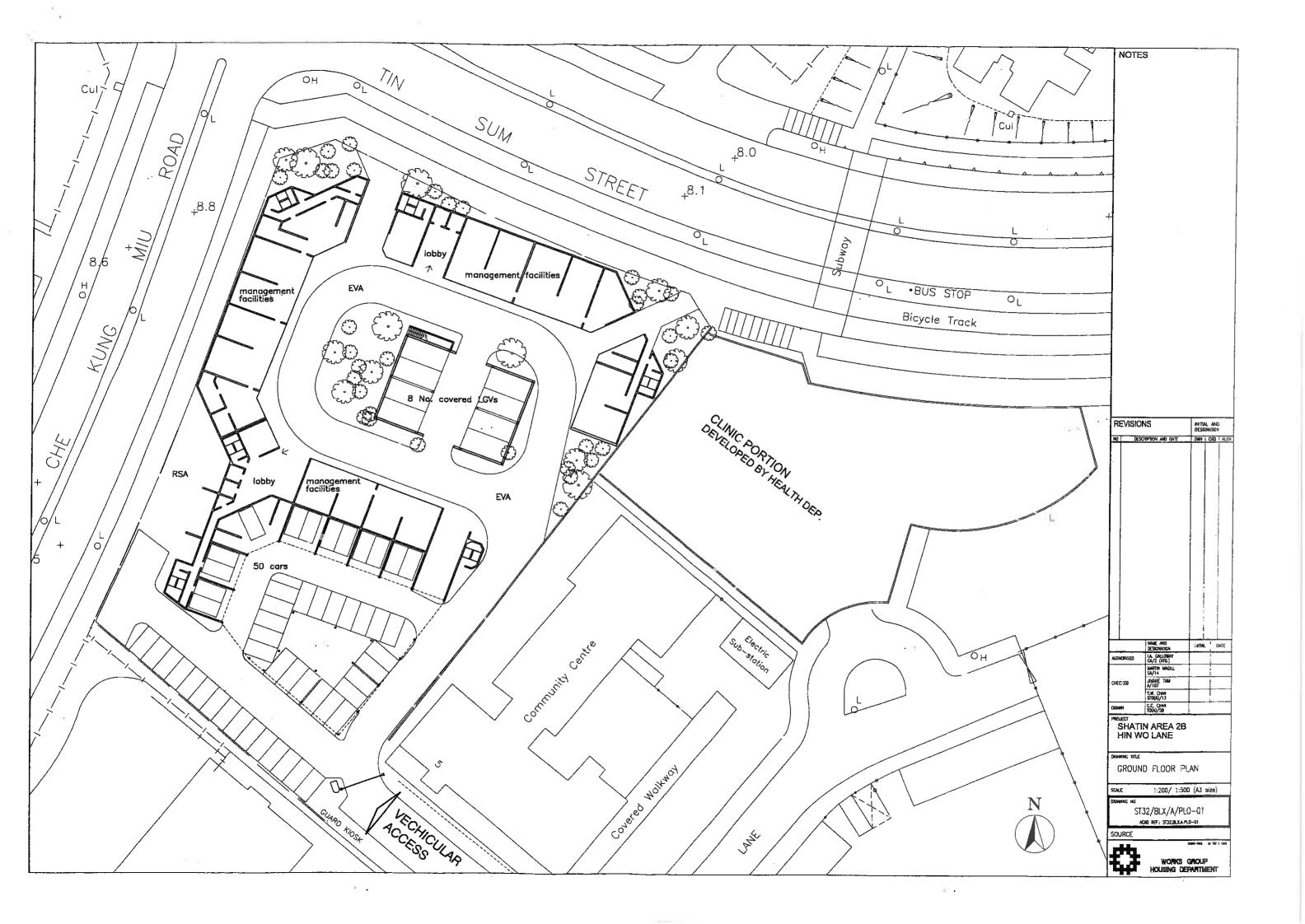
SECTION A-A

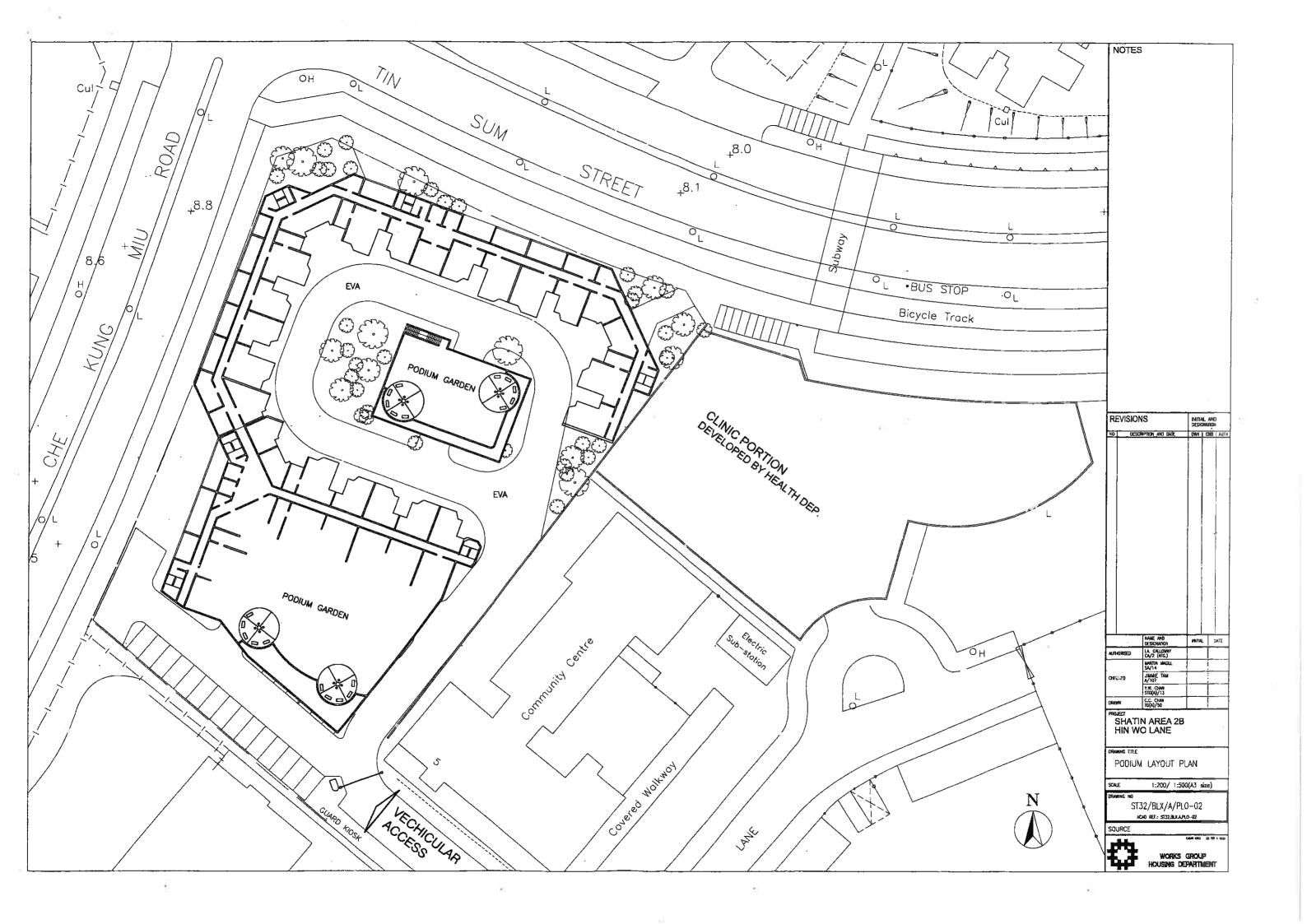
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CNECKED TW. CHAN STR/AJ/13 DRAWN C.C. CHAN PROJECT SHATIN AREA 2B HIN WO LANE DRAWNG TITLE SECTION A—A SCALE 1:250/ 1:625 (A3 size) DRAWNG HO ST32/SITE/A/SK—06/P04 AGIO REF: ST32,SITEASK—06,P04,DWG SOURCE ST32/SITE/A/PLO-06/P03	AUTHORISED	I.A. GALLOWAY CA/2 (ATG.)	
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HIN WO LANE DRAWING TITLE SECTION A—A SCALE 1:250/ 1:625 (A3 size) DRAWING NO ST32/SITE/A/SK-06/P04 ACAD REF: ST32/SITE/A/R-0-06/P03 SOURCE ST32/SITE/A/R-0-06/P03	CHECKED	I.A. GALLOWAY CA/2 (ATC.) JAMETIN JAGRI. SA/14 JIMME TAM A/107 Y.W. CHAM STD(A)/13	
ST32/SITE/A/SK-06/P04 ACIO RET: ST32/SITEASK-06/P04.DWG SOURCE ST32/SITE/A/P.O-06/P03	CHECICED DRAWN PROJECT	I.A. GALORAY CAY2 (ATC.) MARTIN MAGR.L SA/14 MAIN TAM A/107 Y.W. CHAM STD(A)/13 C.C. CHAM TO(A)/50	
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Table 1	CHECKED DRAWN PROJECT SHATII HIN WO DRAWNS TITLE SECTION SCALE DRAWNS NO ST32/	IA CALONAY ACAY (ARC) MARTIN JAMORL JIMINE TAM A/107 Y.W. CHAM STD(A/1) C.C. CHAM TO(A/50 N AREA 2B LANE 1:250/ 1:625 /SITE/A/SK-0	(A3 size) 6/P04
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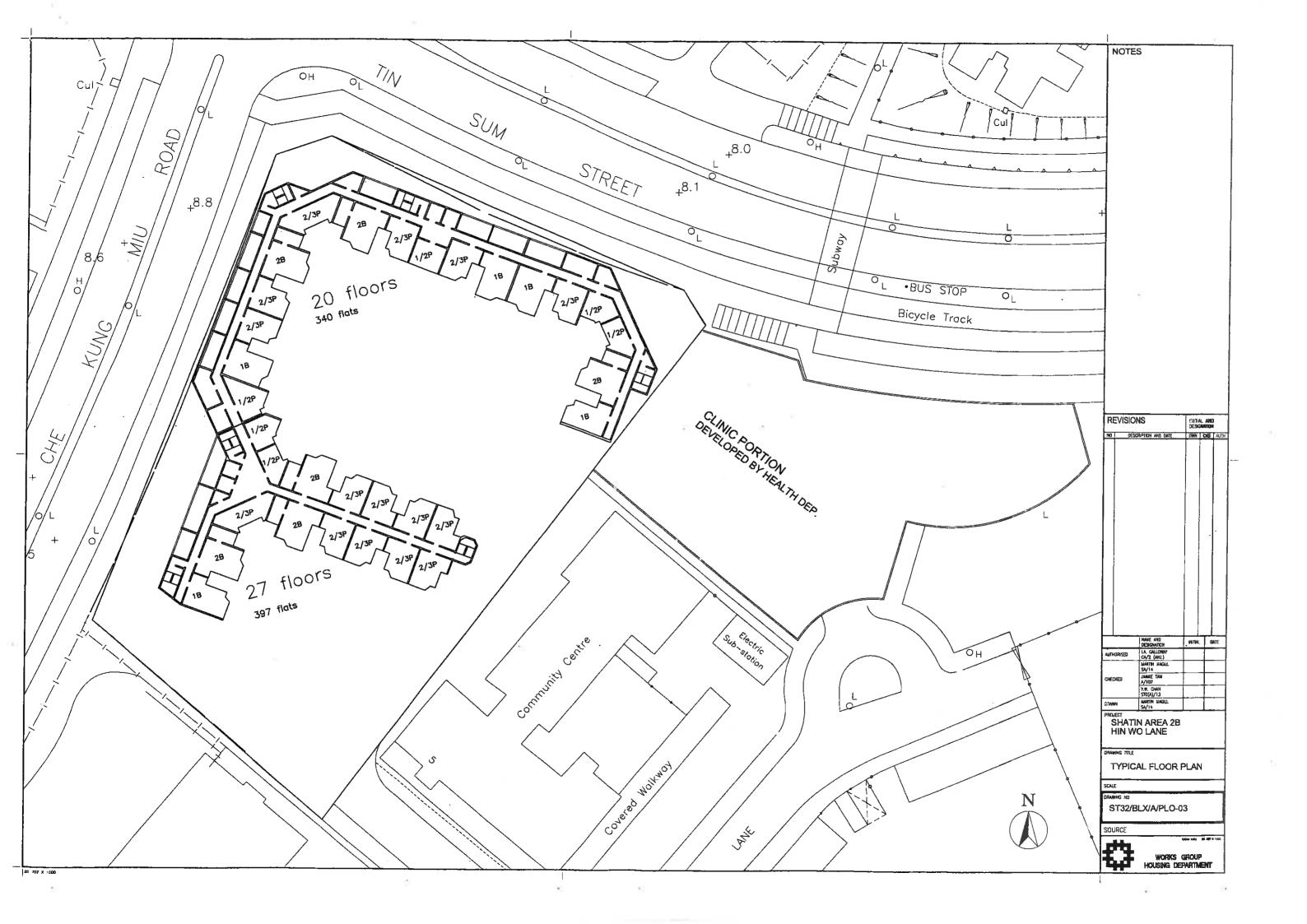
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SHATIN AREA 2B

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								!) 		} 		1	HOUSING DEPARTME

PART IV DEVELOPMENT COST BUDGET

PROJECT : Shatin Area 2B PHASE : - PHDP Code :

			Comma	n Kang							
	PRH	HOS	CC	CIF (PC)	WEL	UN	CN	OCP(LGV)	TS	EW	Total
CFA of Cost Fortigms (m2)	36,108			1,347	23	509		-		-	38,007

COST ITEMS						Estimated Co	at In \$,000					Finctuation Prevalent
A. Site Development & Construction Cost Student At June 1999									T			
Excluding Phenuntions & Tender Price Inflation		ł	ļ	İ	· ·	1	i i					
1.0 Site Development Costs			1	1								
1.1 Site Formation Contract							١.		Ι.			
1.2 Demolition Contract				.			١.		Ι.			
			ľ	1							_	, i
2.0 <u>Construction Costs</u>		1		1	1			1				
2.1 Foundation Contract				1				l	l			
2.11 Building Poundations	19,866	١.	- 1	1,137	13	290					21,306	
2.12 External Works for Specific Statement	1,296			48	2	14					1,367	-
			•					l	ı]		
2.2 Building Contract			ŀ		i		1	1	1	1		
2.21 Building Works (excl. building services)	139,721			2,351	317	2,571	١.	184		-	144,944	12,975
2.22 Building Services	30,816			263		187			•		31,274	•
2.73 Transfer Structures		-	1 -	٠ ا	l •	1 -		÷			-	
2.24 Public Transport Interchange	'	-	٠ ا	١ .	٠ ا	-	•	-			- 1	
2.25 External Works for commonly shared elements		•		l	l :					• .	-	-
2.26 External Works for Specific Busicasses	15,703	-		594	12	221	٠ .				16,530	1,529
2.27 Automated Refuse Collection System	-		٠ .		l •		-		-			-
2.3 Other Separate Contracts (incl. Sofitiandemps)	773	-		29	1	11					814	-
Cost Budgel At June 1999 Price Level (A)	208,177		•	4,423	153	3,298		184		-	216,235	14,504
B. Cast Reference Projected To									\vdash			
Proposed Dates of Tanders I Cost in Ress (A) plus Cost x 6r), (ar), (ar) or (a) }												
1.6 Site Development Costs Total G'AO												
1.1 Sits Formation Contract			١.		١.		١.	Ι.	Ι.			_
1.2 Damolitium Contract \$ •	-		-	-	-	-	-					
2.9 Construction Certs		ŀ		,								
2.1 Foundation Contract			ł	'		Ì						
2.11 Building Poundations	19,866		_	1,137	13	290	١.		l .		21,306	_
2.12 Exercial Works for Specific Businesses	1,296	-		49	2	18	-	-			1,367	
2-2 Building Contract		1										
2.21 Building Works (excl. building services)	144,611			2,433	121	2,661	Ι.	190	l .		150,016	13.429
2.22 Buliding Services	31.895			272		194	`	'~			32,369	13,7427
2.23 Transfer Structures			-				.				34,303	
2.24 Public Transport Interchange			١.	١.		l			Ι.			
2.25 External Works for commonly shared elements												
2.26 External Works for Specific Businesses	16,253			615	12	229					17,109	1,583
2.27 Automisted Enfluse Collection System	•		١.									-
2.3 Other Separate Contracts (Incl. Sofitlandscape)	800	-	١.	30	1	11 -					842	
Cost Budget To Proposed Dutes Of Tenders (B)	214,723			4,536	157	3,403	-	190	-			15.010
(4)	214,123			7,550		-,		13rd		•	223,009	15,012

Types of Contract	Tender In Dates	Adjustment for months after June 2006
Site Formalion	900	- Months x # % / 12 = (v
Demolitica	**	- Months x # % / 12 = (v
Poundation	10/2000	4 Months x 0 % / 12 = 0 (v
Building (for inflation adjustment, "External Works", "Others", esc.,		
Tender-In Dates to be taken the same as "Building")	7/2001	7 Months x 6 % / 12 = 0.035 (z

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

PHASE

SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 6 (cont'd)

PROJECT: Shatin Area 2B PH	ASE: - PHDP Code:					
Legend for Cost Portions: PRH - Public Rental Housing HOS - Home Ownership Scheme CC - Commercial (Shopping) Cen	tre	CP WEL GN	We	park Ifare & Community Pacilities venument Non-reimbursable	UN . TS . EW .	Unallocable Transfer Structure External Works
Apportionment of the Construction Reasons for Cost Difference from The costs for softlandscaping, utili	evel and adjusted for tender price inflation to tender is Costs are in accordance with the existing cost appor Standard Cost Yardstick's shall be highlighted. ties connections, etc. shall be grouped under Other S worked out based on the formula as shown on the Gr	tionment guidelines set out in Separate Contracts.	relevant DCMI	for June 2000 to December 2000 and 6%	per annum for January 2001 onwards.	
<u>Inclusions :</u> (1)						
(2) Other Project Costs, eg. traffic and	rofessional services & overheads, consultant fees, etc i environmental studies, land surveying studies, site p terial test, piling test carried out by direct testing con	otential and other engineering	g studies, site in	vestigation, geotechnical		
Assumptions: (1) Common architectural finishes and	fittings are allowed for external areas including Podi	ium Garden.				
Basis of the Budget : (1) Project information included in Mo	emorendom for the Building Committee and memo fo	oon SA/14 on 29/06/2000.				
Prepared by :	Daniel Tsoi	(PQS's Name)		Bridgewater & Coulton Ltd.	(Name of Consultant Firm)
Date :	3rd July 2000					

Page 2 of 9

Construction	on Cost Budget	No6	5	(Domestic Blocks:	Public Rental Housing Portion)
Project :	Shatin Area 2B	Phase	_	(PHDP Code:)	

		Cost pe		
Cost at June 2000 Price Level	No. of Flats	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
1.0 Standard Blocks				
(a) New Harmony Block (Type 1 Option 6, Block No. 1, 41 Storeys)		:		
1 B Flat 2 B Flat 1P/2P Flat 2P/3P Flat	160 160 159 320 799	23,850 31,810 14,850 18,140	225,660 301,090 140,540 171,660	249,510 332,900 155,390 189,800
Cost per Flat x Flat No. = Sub-Total (A) (Total CFA = 36,640 m2)		17,072	\$,000 161,557	178,629 (\$ 4,875 /m2 CFA) (\$ 223,566 per flat)
 2.0 Adjustments to Item 1.0 Above (a) Adjust for foundation to domestic block based on prelimina (b) Ddt. Basic carcase of ancillary/welfare facilities in domesti = 532 m2) (c) Add allowance for single block project (d) Add for provision of street hydrant tank and pump room (e) Add for upgrading of window glazing from 5mm to 6mm (f) Add for provision of window A/C units 	2,948 -303 - 149 -	-1,394 8,008 559 68 1,739	2,948 -1,697 8,008 708 68 1,739	
Sub-Total (B) (Total CFA = 36,108 m2)		2,794		11,774 (\$ 326 /m2 CFA) (\$ 14,736 per flat) % over that calculated in Standard Yardsticks
3.0 Non-standard Domestic Blocks				
Cost per Flat x Flat No. = Sub-Total (C) (Total CFA = m2)		-	\$'000	(\$ - /m2 CFA) (\$ - per flat)
Total Cost of Domestic Block - Public Rental Housing Portion at June 2000 Price Level = $(A) + (B) + (C)$ (excluding Provisions for Contract Fluctuations)	i	19,866	170,537	190,403 (\$ 5,273 /m2 CFA) (\$ 238,302 per flat)

Construction Cost Budget No. ____6___ (Welfare Portion)

Project:

Shatin Area 2B

Phase - (PHDP Code: ____)

		Estimate	d Cost	
Cost at June 2000 Price Level	CFA	Foundation	Building	TOTAL
	(m2)	(Incl	(Excl	
	' '	Caps)	Caps)	
		<	\$'000	
1.0 Welfare Facilities			ĺ	1
in Domestic Block)				
(G/F or Upper Floors)				
İ		•	}	
(a) Welfare facilities (no fitting out included)	23	11	60	71
			1	1
			_	
(b) Fitting Out for Welfare Facilities		-	59	59
(Total area to be fitted out = 23 m2 GFA)		1		
1	ŀ			
2.0 Other Adjustments for Item 1.0 Above				
(a) A direct for Engeletion to domestic block based on		2		_
(a) Adjust for Foundation to domestic block based on		_	-	2
preliminary design				
(b) Add allowance for single block project		_	6	6
(v) And anowance for single blook project	1			
				*
				
Total Cost of Welfare Portion at June 2000		13	125	138
Price Level = Total of Items in 1.0 to 2.0				
(excluding Provisions for Contract Fluctuations)				(\$ 6,000/m2 CFA)
l ' '				l i

Remarks

1. Welfare Portion includes the following:

MAC

23 m2 CFA Construction Cost Budget No. ____6___ (Unallocable Portion)

Project:

Shatin Area 2B

Phase - (PHDP Code : ____)

Cost at June 2000 Price Level CFA Foundation Building (m2) (Incl (Excl Caps) Caps) Caps) Caps) Caps)	
Caps Caps Caps	
1.0 Ancillary Facilities	
1.0 Ancillary Facilities	
)
in Domastic Plack	
in Domestic Block)	
(G/F or Upper Floors)	
×	
(a) Ancillary facilities (no fitting out included) 509 239 1,334	1,573
	1
(b) Fitting Out for Ancillary Facilities - 1,293	1
(b) Fitting Out for Ancillary Facilities - 1,293 (Total area to be fitted out = 509 m2 GFA)	1,293
(Total area to be inted out = 309 m2 GFA)	
2.0 Other Adjustments for Item 1.0 Above	
(a) Adjust for Foundation to domestic block based on 51	51
preliminary design	
(b) Add allowance for single block project - 131	131
The last of the New York In Dentity of Young 2000	
Total Cost of Unallocable Portion at June 2000 2,758 Price Level = Total of Items in 1.0 to 2.0	3,048
(excluding Provisions for Contract Fluctuations)	(A. 5. 000) (A. 600)
(excining 1 to assore for Contract Linethamons)	(\$ 5,988/m2 CFA)

Remarks

1. Unallocable Portion includes the following:

	m2 CFA
Estate Management Office	303
Artisan Workshop	24
BS & BW Contractor Office	139
Cleansing Contractor Office	43
	509

Construction Cost Budget No. __6_ (Carpark Portion)

Project: Shatin Area 2B Phase - (PHDP Code: ____)

		Estimated	l Cost	
Cost at June 2000 Price Level	Space	Foundation	Building	TOTAL
	(No.)	(Incl	(Excl	
		Caps)	Caps)	
1.0 Freestanding Carpark Building based on Actual Des	ign.	<	\$'000	
C. C. all Parking				
(a) Carpark Portion Private (27.34 m2 CFA per space)	50	2,274	4,702	6,976
Filvate (27.34 th2 CFA per space)	50	2,2,74	4,702	0,570
		1		
			58	
(b) Building Services		-	525	525
(c) Ddt for construction cost apportioned to Roof Garden of	f	-1,137	-2,613	-3,750
External Works				
		<u> </u>	\$'000	
Suit total (A)		1,137	2,614	3,751
Sub-total (A) :- (excluding Provisions for Contract Fluctus	ations)	1,15/	2,017	3,731
(excining 11010000 101 Contract Fineson	overdan)	•		(\$ 2,744/m2 CFA)
(Total CFA based on Actual Design = 1,367 m2				(\$ 75,020 / space)
& Average CFA per carparking space = 27.34 m2))			
			45.45	% under that calculated
			based	on Standard Yardstick

2.0 Difference between Actual Design (item 1.0 above) and Cost Yardsticks due to the following:-	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
	<	\$'000	
(a) Ddt for adjustment to efficiency ratio of car space	-	-364	-364
(b) Add for adjustment on cost of foundation based on preliminary	847	-	847
design			
(c) Add allowance for single block project	-	261	261
(d) Ddt for construction costs apportioned to Roof Garden of	-1,137	-2,613	-3,750
External Works			

Remarks

^{1.} To be in line with the SPC paper, 50% of construction costs of carpark was apportioned to Roof Garden of External Works.

Construction Cost Budget No. __6_ (Open Parking Spaces in External Work)

Project: Shatin Area 2B Phase - (PHDP Code: ____)

		Estimated					
Cost at June 2000 Price Level	Space	Foundation	Building	TOTAL			
	(No.)	(Incl	(Excl				
		Caps)	Caps)	<u></u>			
1.0 Open Parking Spaces in External Areas Based on A	<	\$'000	70				
			4 000	<u> </u>			
		,					
(a) Light Goods Vehicle Parking at Open Area	8		184	104			
(c) —g. com com com com com com com com com com	"	,=	104	184			
ir							
				\$'000			
	Sub-total (A) :-		184	184			
(excluding Provisions for Contract Fluctu							
(Total CEA based on Actual Decim — 1062			(\$ 939/m2 CFA)				
(Total CFA based on Actual Design = 196 m2 & Average CFA per carparking space = 24.5 m2)				(\$ 23,000 / space)			
a riverage ciri per carpanang space – 24.3 mz)							
		ļ					

Construction Cost Budget No6 (External Works - Commonly Shared Across Phases of Development and Amongst Various HA Busiesses)						
Project:	Shatin Area 2B	Phase	- (PHDP	Code :)		
Total GEA =	5,730 m2; Total	CFA	37,913	m2; Total LAA =	-	

Г		Estimate	T		
	Cost at June 2000 Price Level	Foundation			
		(Incl	(Exci	TOTAL	
		Caps)	Caps)	1	
		7			
1 0	External Works based on Actual Design (excl. Contract Price	<	\$,000.00	·- - >	
1.0	Fluctuation)				
(a)	Hard Landscape Works (Amenities)		0.100		
	Underground Drainage	-	9,133	9,133	
(b)	Onterground Dramage	_	4,001	4,001	
	Sub-total (A)		13,134	13,134	
	(La)		15,154	(\$ 346 /m2 CFA	
				(\$ 2,292 /m2 GE/	
		(\$,000.00		
2.0	Special External Works based on Actual Design (excl. Contract Price F	uctuation)		ĺ	
(a)	Footbridges/staircases/ramps	_	187	187	
(b)	Fence Walls	230	596	826	
(c)	Add for partial construction costs of carpark apportioned to Roof	1,137	2,613		
(0)	Garden of External Works	1,137	2,013	3,750	
	Sub-total (B)	1,367	3,396	4,763	
		, -		(\$ 126 /m2 CFA)	
				(\$ 831 /m2 GEA)	
				1	
	Total Cost of Commonly Shared External Works at June 2000		16.500		
	Price Level = (A) + (B)	1,367	16,530	17,897	
	(excluding Provisions for Contract Fluctuations)			(\$ 472/m2 CFA)	
		<u> </u>	<u> </u>	(\$ 3,123 /m2 GEA	
		_			
	Cost of Automated Refuse Collection System at June	-	5	-	
	Price Level			1	
	(excluding Provisions for Contract Fluctuations)			(\$ /m2 CFA)	
				(\$ /m2 GEA)	
			1	1 -7	

	Estimate	1	
Cost at June 1999 Price Level	Soft Landscape	Fees & Others	TOTAL
Cost of Other Separate Contracts (incl. Softlandscaping Work) at June 2000 Price Level (excluding Provisions for Contract Fluctuations)	372	442	814 (\$ 21 /m2 CF/ (\$ 142 /m2 GE

<u>Remarks</u>

- 1. To be in line with SPC paper, 50% construction costs of carpark was apportioned to Roof Garden of External Works.
- 2. Allowance has been made for drainage diversion works to be carried out by separate contracts.

Construction Cost Budget No. ___6__ (External Works - Charged to Specific HA Businesses)

Project:

Shatin Area 2B

Phase - (PHDP Code: ____)

		COST PORTIONS						
	Cost at June 2000 Price Level	PRH	HOS	CC	СР	UN	WEL	TOTAL
1.0 (a)	External Works based on Actual Design (excl. Contract Fluctuation) Hard Landscape Works (Amenities)	< 8,677			\$,000.00	122	6	9,133
(e)	Underground Drainage Soft Landscape & others	3,801 773	-	₹ 3	144 29	54	2 1	4,001 814
	Sub-total (A)	13,251	<u>-</u> ·	-	501	187	9	13,948
2.0	Special External Works based on Actual Design (excl. Contract Fluctuation)	< -		 	\$,000.00			>
(a)	Footbridges/staircases/ramps Fence walls - Foundation costs Fence walls Add for partial construction costs of carpark - Foundation costs Add for partial construction costs of carpark	177 218 566 1,080 2,482	- - -	-	7 8 21 41 94	2 3 8 15 35	1 1 1 2	187 230 596 1,137 2,613
	Sub-total (B)	4,523	. -	- ,	171	63	6	4,763
	Total Cost of External Works Charged to Specified HA Businesses at June 2000 Price Level (excluding Provisions for Contract Fluctuations)	17,774	-	 	\$,000.00 672	250	15	18,711