Appendix E

Sewerage Impact Assessment

Prepared by

Ramboll Hong Kong Limited

SECTION 16 PLANNING APPLICATION FOR PROPOSED MINOR RELAXATION OF GROSS FLOOR AREA AND BUILDING HEIGHT RESTRICTIONS FOR PERMITTED OFFICE USE AND OTHER PERMITTED USES IN "COMMERCIAL (7)" ZONE BOUNDED BY KING'S ROAD AND TAIKOO SHING ROAD, QUARRY BAY

SEWERAGE IMPACT ASSESSMENT

Date	**December 2025**
Prepared by	**Sally Chiu** **Assistant Environmental Consultant**
Signed	
Approved by	**Tony Cheng** **Senior Manager**
Signed	
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Ramboll Hong Kong Limited

21/F, BEA Harbour View Centre
56 Gloucester Road, Wan Chai, Hong Kong

Tel: (852) 3465 2888
Fax: (852) 3465 2899
Email: hkinfo@ramboll.com

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1. INTRODUCTION

1.1 Background and Objectives

1.1.1 The "Commercial (7)" ("C(7)") zone bounded by King's Road and Taikoo Shing Road on the Quarry Bay Outline Zoning Plan (OZP) consists of 1111 King's Road (formerly known as Cityplaza One), Cityplaza and east HONG KONG.

1.1.2 The "C(7)" zone is subject to a maximum non-domestic gross floor area (GFA) of 123,129m^2 and is subject to 2 building height (BH) bands: 1111 King's Road and east HONG KONG are subject to maximum BH of 135mPD; while Cityplaza in between 1111 King's Road and east HONG KONG is subject to maximum BH of 45mPD.

1.1.3 In this planning application, to support office extension of 1111 King's Road, extra GFA and BH is required for 1111 King's Road. Therefore, two items that require planning permission from the Town Planning Board (the Board) are involved:

- Minor relaxation of the GFA restriction of "C(7)" zone from 123,129m^2 to 148,629m^2 (+25,500m^2 / 20.7%)
- Minor relaxation of the BH restriction of 1111 King's Road from 135mPD to 165mPD (+30m / 22.2%)

1.1.4 The increase in GFA and BH will be absorbed by 1111 King's Road only, other buildings in the "C(7)" zone will not be affected.

1.1.5 The location of "C(7)" Zone and 1111 King's Road extension is shown in **Figure 1.1**.

1.1.6 Ramboll Hong Kong Limited is commissioned by the project proponent to carry out sewerage impact assessment for the additional sewage generated from the development arising from the proposed minor relaxation of GFA and BH restrictions.

1.2 Proposed Development

1.2.1 The Applicant proposes additional GFA and BH to 1111 King's Road for its extension above the existing office building. The proposed extension will be constructed on top of the existing office building, no changes to the existing 1111 King's Road will be made.

1.2.2 The existing GFA of 1111 King's Road is about 78,069m^2. This planning application applies for an increase in office GFA, brining 13 new storeys to the existing office building of 1111 King's Road, involving 25,500m^2 increase in GFA for office use. Out of the 13 new storeys, 10 storeys will be for office use, 2 floors are for mechanical and electrical (M&E) facilities, and 1 floor will be designated as refuge floor-cum-sky garden. **Figure 1.2** shows the indicative floor plan of 1111 King's Road extension and section plan.

1.2.3 The tentative completion of Proposed Development is in Year 2029.

2. SEWERAGE IMPACT ASSESSMENT

2.1 Scope of Work

2.1.1 The aim of this SIA is to show the sewerage network is sufficient to cope with the additional sewage flow from the Proposed Development.

2.2 Assessment Criteria and Methodology

2.2.1 The Commercial and Industrial Floor Space Utilization Survey (CIFSUS) conducted by the Planning Department has been used to determine the worker density for various economic activities and planned usage types.

2.2.2 Environmental Protection Department's (EPD's) Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning, Version 1 (GESF) has been referred to for the purposes of estimating the quantity of the sewage generated from the Proposed Development. Sewage flow parameters and global peaking factors in this document have been adopted for this SIA.

2.2.3 According to the GESF, the overall unit flow is composed of flows due to employees and the associated activities. The following unit flow factors have been adopted in the SIA calculation in accordance with Tables T-1, T-2 and T-3 of the GESF:

- J6 – Finance, Insurance, Real Estate & Business Services: 0 m3/day

2.2.4 The catchment inflow, P_{CIF} of 1.25 (Shau Kei Wan), is adopted in catchment calculations.

2.3 Existing Sewerage System

2.3.1 According to the Geoinfo Map, the sewers discharged from Proposed Development will be conveyed to the existing public manhole FMH7036243.

2.4 Wastewater Generated by the Existing and Proposed Development

2.4.1 The increase in GFA covers the use of office use, M&E facilities and refuge floor-cum-sky garden. As a conservative assessment, it is assumed all additional area is for office use.

2.4.2 Detailed calculations of sewage generation from the Existing and Proposed Development are given in **Table 2-1** below and **Appendix 2.1**.

Table 2-1 Estimated Peak Flow from the Proposed Development

Calculation for Sewage Generation Rate of the Proposed Development at the Subject Site			
1. Office			
Assumed Area	=	25500	m^2
Assumed floor area per employee	=	18.2	m^2 per employee -- (refer to Table 8 of CIFSUS – Financial, Insurance, Real Estate & Business Services)
Total number of employees	=	1403	employees
Design flow for commercial employees	=	0.08	m^3/employee/day – (refer to Table T-3 of GESF – J6 Finance, Insurance, Real Estate & Business Services)
Sewerage generation rate	=	112.2	m^3/day
Total Flow from the Proposed Development			
Flow rate	=	112.2	m^3/day
Flow rate with P_{CIF}	=	140.3	m^3/day (refer to Table T-4 of GESF – Shau Kei Wan - 1.25)
Contributing population	=	520	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	8	(refer to Table T-5 of GESF for a population between 5,000 – 10,000 incl. stormwater allowance)
Peak flow	=	**13.0**	litre/sec

2.5 Assessment of Sewerage Impact

2.5.1 Sewage generated from the Proposed Development will be discharged to the existing public manhole FMH7036243 at Taikoo Shing Road as shown in **Figure 2.1**. The sewerage record plans obtained from Drainage Services Department (DSD) are attached in **Appendix 2.2**. Catchment in the vicinity of the Subject Site is shown in **Figure 2.2**.

2.5.2 Detailed calculation of sewage generation, peak flow estimation and the capacity of the public sewers can be referred to **Appendix 2.1**. Based on the assessment results, there would be sufficient capacity for the future public sewers to cater for the sewage generated from the Proposed Development as well as the surrounding existing buildings.

2.5.3 The sewerage generated from the Proposed Development would be conveyed to the nearby Tai Koo Shing Pumping Station (TKSPS) with its design capacity of 22,464m^3 (i.e. 260 L/s). It will occupy 5% of the TKSPS which is deemed insignificant. Therefore, it can be deduced that the capacity of the TKSPS and the pipes connected to TKSPS are enough for the sewage generated from the Proposed Development. The contributions of sewage generated from the Subject Site on TKSPS can be referred to Table 13 of **Appendix 2.1**.

2.5.4 Hence, no further upgrading of the public sewers is required.

3. CONCLUSION

3.1.1 The potential sewerage impact arising from the Proposed Development has been quantitatively assessed by comparing the estimated sewage flow from the existing development and Proposed Development.

3.1.2 Based on the calculations as shown in **Appendix 2.1**, the increase in GFA for the Proposed Development would generate the peak flow of 13 L/s. The capacity of existing sewers and Tai Koo Shing Pumping Station are sufficient to cater for the sewage generated from the Proposed Development. Upgrading on the sewerage system is NOT required.

Figure

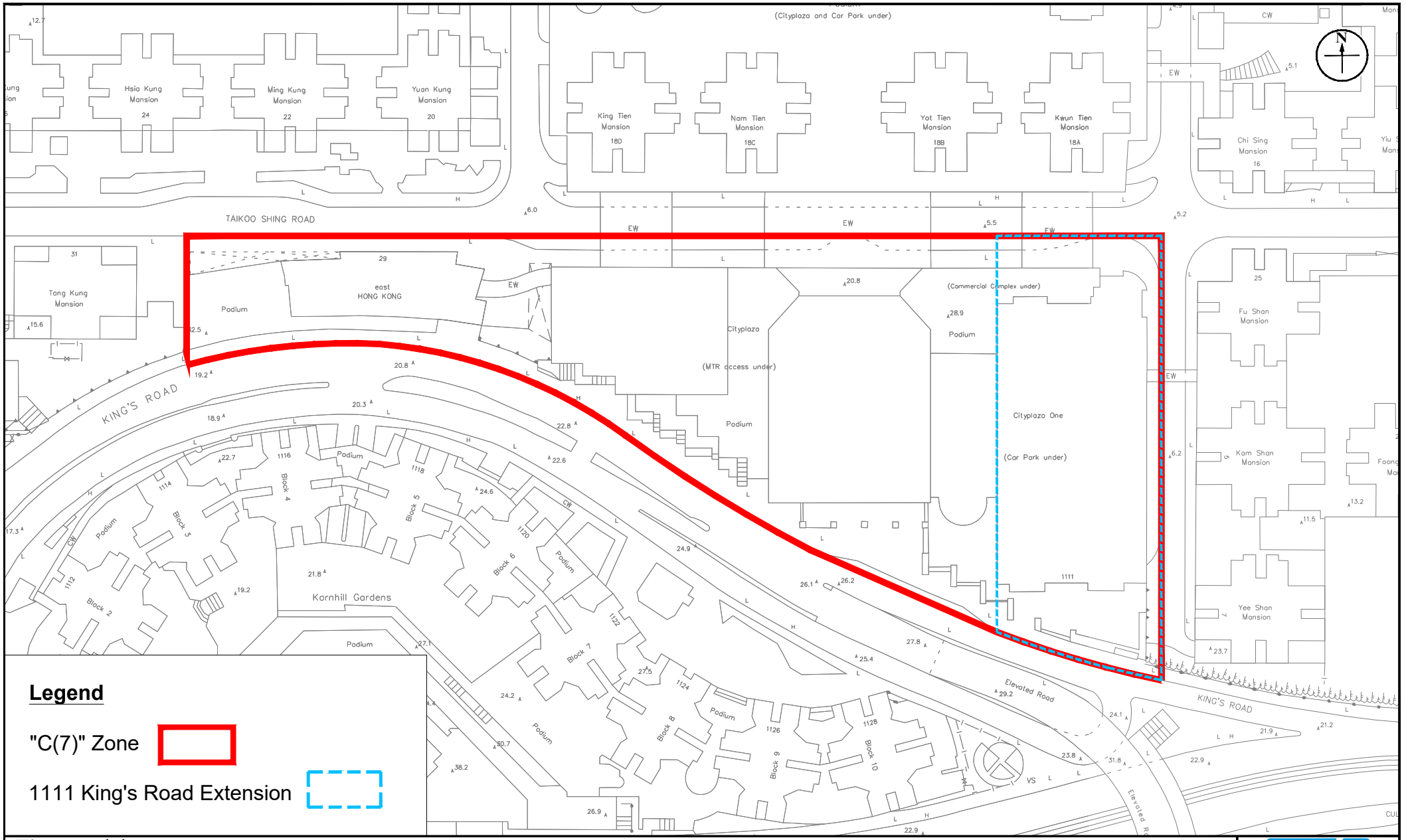

Figure: 1.1

Title: Location of "C(7)" Zone and 1111 King's Road Extension

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Checked by: TC

Project: Section 16 Planning Application for Proposed Minor Relaxation of Gross Floor Area and Building Height Restrictions for Permitted Office Use and Other Permitted Uses in "Commercial (7)" Zone Bounded by King's Road and Taikoo Shing Road, Quarry Bay

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Date: Dec 2025

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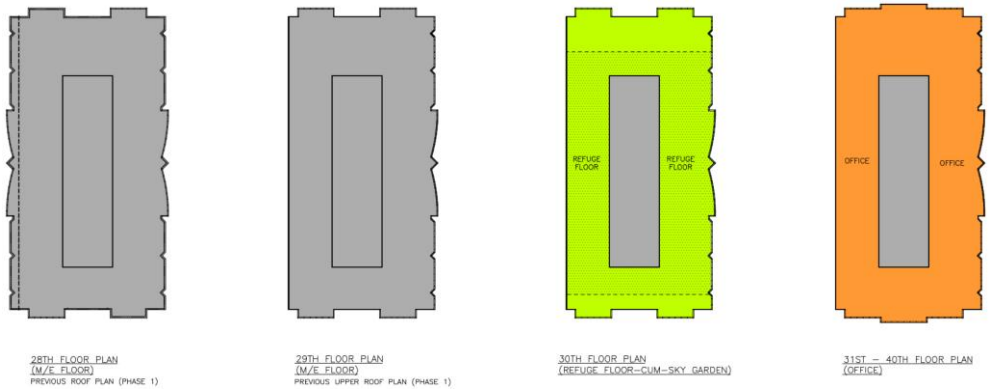

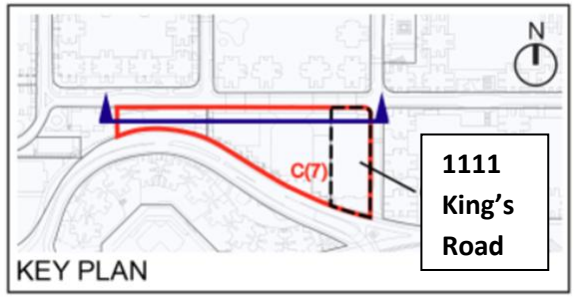

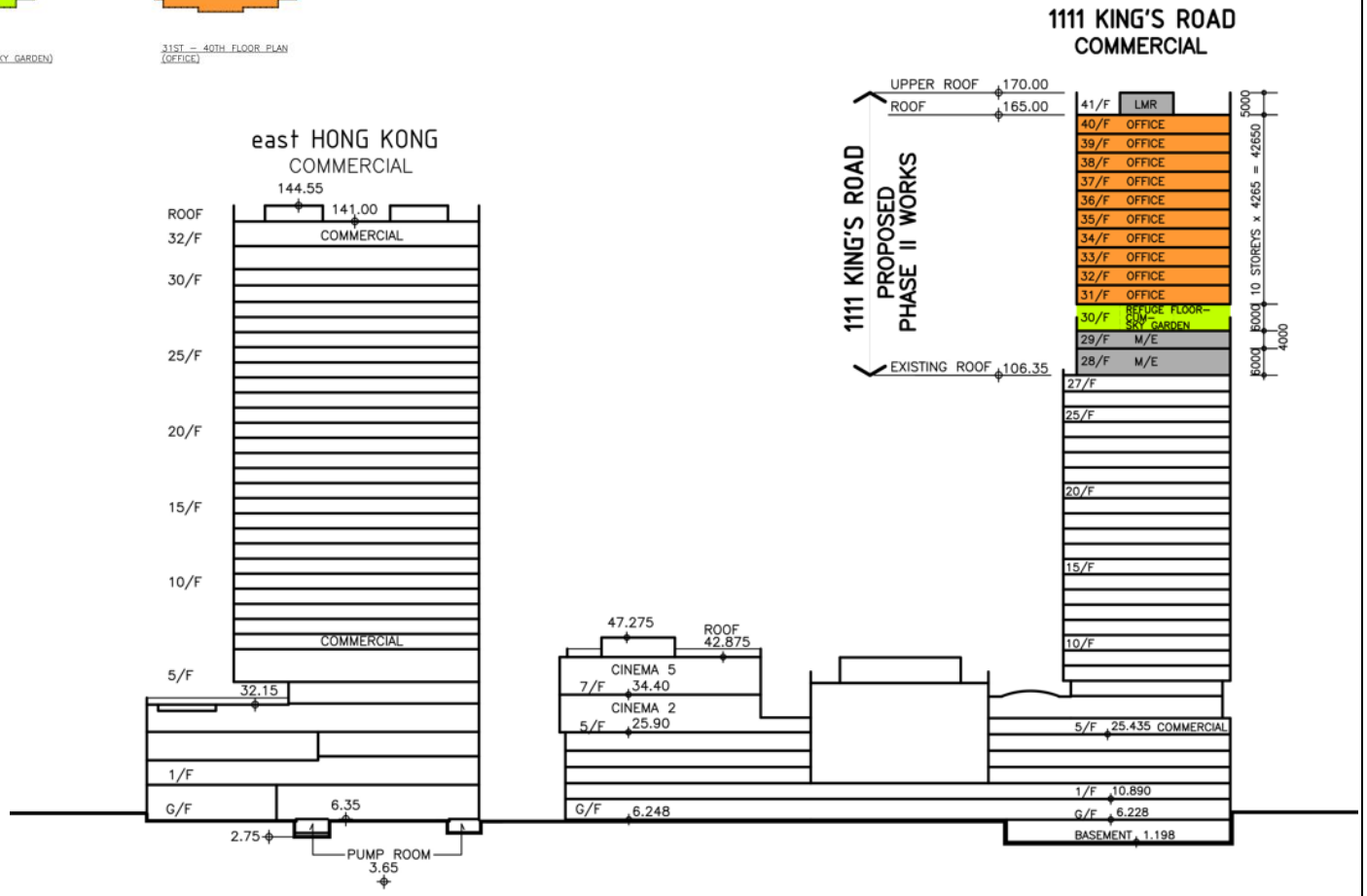

LEGEND :-

- OFFICE
- E&M / BACK OF HOUSE AREA
- REFUGE FLOOR-CUM-SKY GARDEN

Figure: 1.2	RAMBOLL
Title: Indicative Floor Plan of 1111 King's Road Extension and Section Plan	Drawn by: KW Checked by: TC
Project: Section 16 Planning Application for Proposed Minor Relaxation of Gross Floor Area and Building Height Restrictions for Permitted Office Use and Other Permitted Uses in "Commercial (7)" Zone bounded by King's Road and Taikoo Shing Road, Quarry Bay	Rev.: 1.0 Date: Dec 2025

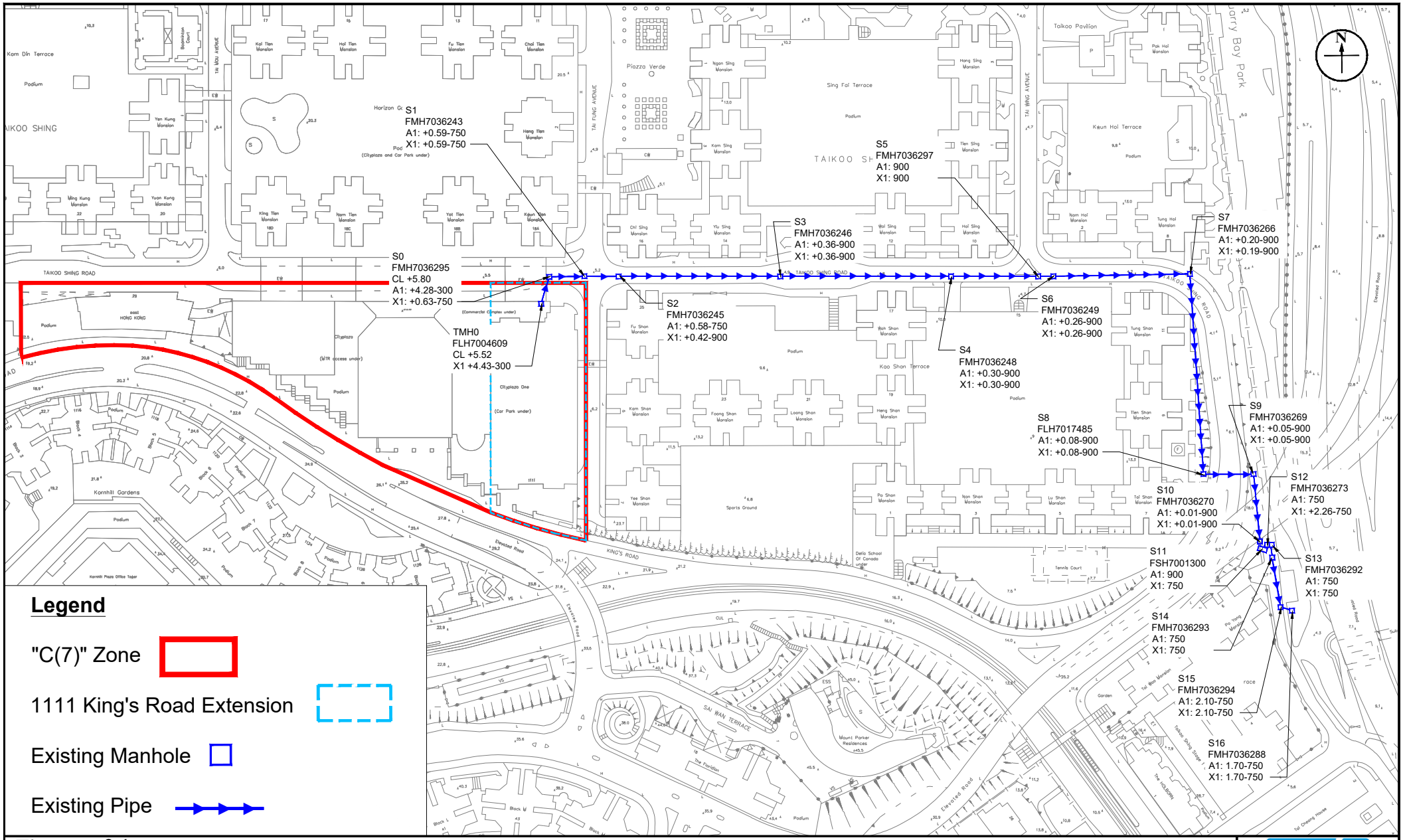

Figure: 2.1

Title: Existing Sewerage System in the Vicnity of the Subject Site

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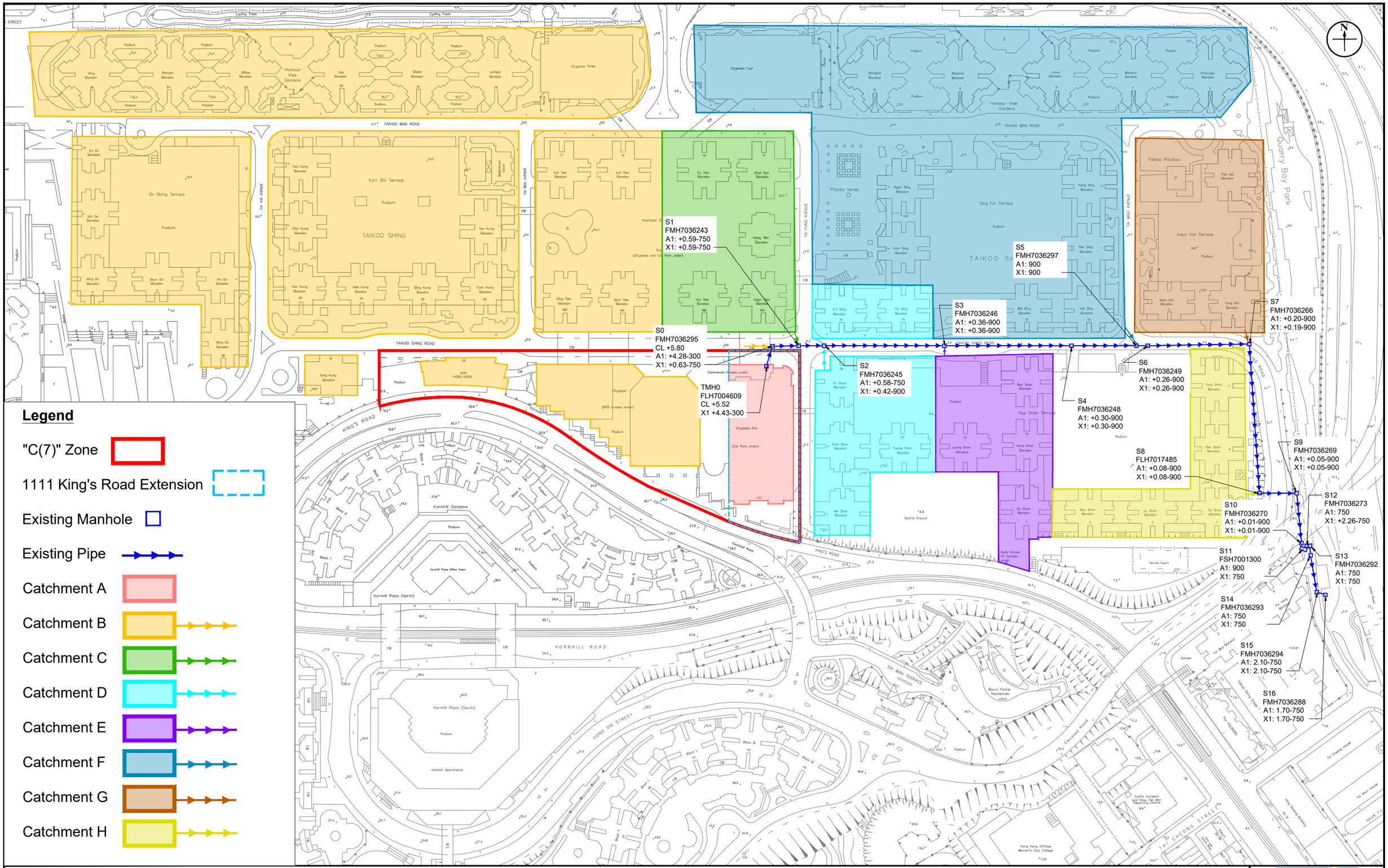

Figure: 2.2

Title: Existing Sewerage System and Catchment Area in the Vicnity of the Subject Site

Project: Section 16 Planning Application for Proposed Minor Relaxation of Gross Floor Area and Building Height Restrictions for Permitted Office Use and Other Permitted Uses in "Commercial (7)" Zone Bounded by King's Road and Taikoo Shing Road, Quarry Bay

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Appendix 2.1 Detailed Sewerage Impact Assessment Calculations

Table 1 Calculation for Sewage Generation Rate of the Future Development (Proposed Additional Office at 1111 King's Road)

1. Office			
Assumed area	=	25500	m^2
Assumed floor area per employee	=	18.2	m^2 per employee -- (refer to Table 8 of CIFSUS - Financial, Insurance, Real Estate & Business Services)
Total number of employees	=	1403	employees
Design flow for commercial employees	=	0.08	m^3/employee/day -- (refer to Table T-2 of GESF - J6 Finance, Insurance, Real Estate & Business Services)
Sewage generation rate	=	**112.2**	m^3/day
Total Flow from the Future Development			
Flow rate	=	112.2	m^3/day
Flow rate with P_{CIF}	=	140.3	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	520	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	8	(refer to Table T-5 of GESF for a population <1,000 incl. stormwater allowance)
Peak flow	=	**13.0**	litre/sec

Table 2 Calculation for Sewage Generation Rate of Catchment A

1. 1111 King's Road			
Assumed area	=	78069	m^2
Assumed floor area per employee	=	18.2	m^2 per employee -- (refer to Table 8 of CIFSUS - Financial, Insurance, Real Estate and Business Services)
Total number of employees	=	4294.0	employees
Design flow for commercial employees	=	0.08	m^3/employee/day -- (refer to Table T-2 of GESF - J6 Finance, Insurance, Real Estate and Busiess Services)
Sewage generation rate		**343.5**	m^3/day
Total Flow from the Future Development and Catchment A			
Flow rate	=	455.8	m^3/day
Flow rate with P_{CIF}	=	569.7	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	2110	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees
Peaking factor	=	6	(refer to Table T-5 of GESF for a population between 1,000 - 5,000 incl. stormwater allowance)
Peak flow	=	**39.6**	litre/sec

Table 3 Calculation for Sewage Generation Rate of Catchment B

1a. On Shing Terrace			
Number of units	=	1357	units (from Centaline: https://hk.centanet.com/estate/en/Taikoo-Shing/2-OVDUURFSJJ)
Number of residents	=	3800	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**1026.0**	m^3/day
1b. Restaurants			
Assumed area	=	2201	m^2
Assumed floor area per employee	=	19.6	m^2 per employee -- (refer to Table 8 of CIFSUS - Restaurant)
Total number of employees	=	112	employees
Design flow for commercial employees	=	1.58	m^3/employee/day -- (refer to Table T-2 of GESF - J10 Restaurant & Hotels)
Sewage generation rate	=	**177.4**	m^3/day
2. Kam Din Terrace			
Number of units	=	1663	units (from centaline: https://hk.centanet.com/estate/en/Taikoo-Shing-Kam-Din-Terrace/2-OVDUURFSSJ)
Number of residents	=	4656	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**1257.1**	m^3/day
3. East Hong Kong			
Assumed area	=	15680	m^2 (measured in Geoinfo Map)
Assumed floor area per employee	=	31.3	m^2 per employee -- (refer to Table 8 of CIFSUS - Hotels and Boarding Houses)
Total number of employees	=	502	employees
Design flow for commercial employees	=	1.58	m^3/employee/day -- (refer to Table T-2 of GESF - J10 Restaurant & Hotels)
Sewage generation rate	=	**792.8**	m^3/day
4. City Plaza			
Assumed Area	=	29380	m^2
Assumed floor area per employee	=	18.2	m^2 per employee -- (refer to Table 8 of CIFSUS - Financial, Insurance, Real Estate and Business Services)
Total number of employees	=	1616.0	employees
Design flow for commercial employees	=	0.08	m^3/employee/day -- (refer to Table T-2 of GESF - J6 Finance, Insurance, Real Estate and Busiess Services)
Sewage generation rate	=	**129.3**	m^3/day
5a. Harbour View Gardens (West)			
Number of units	=	1328	units (from Centaline: https://hk.centanet.com/estate/en/Taikoo-Shing/2-OVDUURFSUJ)
Number of residents	=	3718	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**1003.9**	m^3/day
5b. Swimming Pool in Harbour View Gardens			
Assumed area	=	248.7	m^2
Assumed depth of water	=	1.5	m
Volume of water	=	373.0	m^3
Turnover Rate	=	6.0	hr (CAP132, Section 42 Swimming Pools Regulation (open air pool))
Surface loading rate of filter	=	50.0	$m^3/m^2/hr$
Filter areas required	=	1.2	m^2
Backwashing flow rate	=	30.0	$m^3/m^2/hr$
Design flow for backwashing	=	37.3	m^3/hr
Backwash duration	=	3.0	min/day
Backwash generation rate	=	1.86	m^3/day
Backwash generation rate	=	**10.4**	litre/sec
6. 14 Tai Koo Wan Road			
Assumed Area	=	31920	m^2
Assumed floor area per employee	=	29.4	m^2 per employee -- (refer to Table 8 of CIFSUS - All Economic Activities (All Types))
Total number of employees	=	1085	employees
Design flow for commercial employees	=	0.08	m^3/employee/day -- (refer to Table T-2 of GESF)
Sewage generation rate	=	**86.8**	m^3/day

7a. Horizon Gardens (Kai Tien Mansion, Hoi Tien Mansion, King Tien Mansion, Nam Tien Mansion)

Number of units	=	768	units
Number of residents	=	2150	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**580.5**	m^3/day

7b. Swimming Pool in Horizon Gardens

Assumed area	=	490.0	m^2
Assumed depth of water	=	1.5	m
Volume of water	=	735.0	m^3
Turnover Rate	=	6.0	hr (CAP132, Section 42 Swimming Pools Regulation (open air pool))
Surface loading rate of filter	=	50.0	$m^3/m^2/hr$
Filter areas required	=	2.5	m^2
Backwashing flow rate	=	30.0	$m^3/m^2/hr$
Design flow for backwashing	=	73.5	m^3/hr
Backwash duration	=	3.0	min/day
Backwash generation rate	=	3.68	m^3/day
Backwash generation rate	=	**20.4**	litre/sec

8. Half of City Plaza Two

Assumed Area	=	28266	m^2
Assumed floor area per employee	=	29.4	m^2 per employee -- (refer to Table 8 of CIFSUS - All Economic Activities (All Types))
Total number of employees	=	961	employees
Design flow for commercial employees	=	0.08	m^3/employee/day -- (refer to Table T-2 of GESF)
Sewage generation rate	=	**76.9**	m^3/day

Total Flow from the Catchment B

Flow rate	=	5130.6	m^3/day
Flow rate with P_{CIF}	=	5130.6	m^3/day (refer to Table T-4 of GESF - North Point - 1.0)
Contributing population	=	19002	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	4	(refer to Table T-5 of GESF for a population between 1,000 - 5,000 incl. stormwater allowance)
Peak flow	=	**237.5**	litre/sec

Total Flow from the Future Development and Catchment A and B to Manhole FMH7036295

Flow rate	=	5586.4	m^3/day
Flow rate with P_{CIF}	=	6983.0	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	25863	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	4	(refer to Table T-5 of GESF for a population between 10,000 - 50,000 incl. stormwater allowance)
Peak flow (without swimming pool)	=	323.3	litre/sec
Peak flow (with swimming pool)	=	**354.1**	litre/sec

Table 4 Calculation for Sewage Generation Rate of Catchment C

1a. Horizons Garden (Fu Tien Mansion, Choi Tien Mansion, Heng Tien Mansion, Yat Tien Mansion, Kwun Tien Mansion)			
Number of units	=	960	units
Number of residents	=	2688	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**725.8**	m^3/day
2. Half of City Plaza Two			
Assumed Area	=	29648	m^2
Assumed floor area per employee	=	29.4	m^2 per employee -- (refer to Table 8 of CIFSUS - All Economic Activities (All Types))
Total number of employees	=	1008	employees
Design flow for commercial employees	=	0.08	m^3/employee/day -- (refer to Table T-2 of GESF)
Sewage generation rate	=	**80.6**	m^3/day
Total Flow from the Catchment C			
Flow rate	=	806.4	m^3/day
Flow rate with P_{CIF}	=	806.4	m^3/day (refer to Table T-4 of GESF - North Point - 1.0)
Contributing population	=	2987	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	6	(refer to Table T-5 of GESF for a population between 1,000 - 5,000 incl. stormwater allowance)
Peak flow	=	**56.0**	litre/sec
Total Flow from the Future Development and Catchment A, B and C to FMH7036243			
Flow rate	=	6392.8	m^3/day
Flow rate with P_{CIF}	=	7991.0	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	29596	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	4	(refer to Table T-5 of GESF for a population between 10,000 - 50,000 incl. stormwater allowance)
Peak flow (without swimming pool)	=	370.0	litre/sec
Peak flow (with swimming pool)	=	**400.7**	litre/sec

Table 5 Calculation for Sewage Generation Rate of Catchment D

1. Fu Shan Mansion			
Number of units	=	216	units
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
2. Kam Shan Mansion			
Number of units	=	216	units
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
3. Yee Shan Mansion			
Number of units	=	216	units
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
4. Foong Shan Mansion			
Number of units	=	216	units
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
5. Chi Sing Mansion			
Number of units	=	208	units
Number of residents	=	582	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**157.1**	m^3/day
6. Yiu Sing Mansion			
Number of units	=	208	units
Number of residents	=	582	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**157.1**	m^3/day
7. Restaurants			
Assumed area	=	661	m^2
Assumed floor area per employee	=	19.6	m^2 per employee -- (refer to Table 8 of CIFSUS - Restaurant)
Total number of employees	=	34	employees
Design flow for commercial employees	=	1.58	m^3/employee/day -- (refer to Table T-2 of GESF - J10 Restaurant & Hotels)
Sewage generation rate	=	**53.3**	m^3/day
Total Flow from the Catchment D			
Flow rate	=	1020.9	m^3/day
Flow rate with P_{CIF}	=	1276.2	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	4727	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	6	(refer to Table T-5 of GESF for a population between 1,000 - 5,000 incl. stormwater allowance)
Peak flow	=	**88.6**	litre/sec
Total Flow from the Future Development and Catchment A, B, C and D to FMH7036245			
Flow rate	=	7413.7	m^3/day
Flow rate with P_{CIF}	=	9267.1	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	34323	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	4	(refer to Table T-5 of GESF for a population between 10,000 - 50,000 incl. stormwater allowance)
Peak flow (without swimming pool)	=	429.0	litre/sec
Peak flow (with swimming pool)	=	**459.8**	litre/sec

Table 6 Calculation for Sewage Generation Rate of Catchment E

1. Po Shan Mansion			
Number of units	=	216	units
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
2. Heng Shan Mansion			
Number of units	=	216	units
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
3. Wah Shan Mansion			
Number of units	=	216	units
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
4. Loong Shan Mansion			
Number of units	=	216	units
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
5. Delia School of Canada			
Total number of teachers & staff	=	160	people (information from https://en.wikipedia.org/wiki/DSC_International_School,_Hong_Kong)
Design flow for teachers & staff	=	0.28	m^3/person/day (refer to Table T-2 of GESF , Community, Social & Personal Services)
Total number of students	=	1300	people (information from https://en.wikipedia.org/wiki/DSC_International_School,_Hong_Kong)
Design flow for students	=	0.04	m^3/person/day (refer to Table T-2 of GESF, School Student)
Sewage Generation rate	=	**96.8**	m^3/day
Total Flow from the Catchment E			
Flow rate	=	750.2	m^3/day
Flow rate with P_{CIF}	=	750.2	m^3/day (refer to Table T-4 of GESF - North Point - 1.0)
Contributing population	=	2779	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	6	(refer to Table T-5 of GESF for a population between 1,000 - 5,000 incl. stormwater allowance)
Peak flow	=	**52.1**	litre/sec
Total Flow from the Future Development and Catchment A, B, C, D and E to FMH7036246			
Flow rate	=	8163.9	m^3/day
Flow rate with P_{CIF}	=	10204.9	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	37796	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	4	(refer to Table T-5 of GESF for a population between 10,000 - 50,000 incl. stormwater allowance)
Peak flow (without swimming pool)	=	472.4	litre/sec
Peak flow (with swimming pool)	=	**503.2**	litre/sec

Table 7 Calculation for Sewage Generation Rate of Catchment F

1. 12 Tai Koo Wan Road			
Assumed Area	=	40824	m^2
Assumed floor area per employee	=	18.2	m^2 per employee -- (refer to Table 8 of CIFSUS - Financial, Insurance, Real Estate and Business Services)
Total number of employees	=	2245.0	employees
Design flow for commercial employees	=	0.08	m^3/employee/day -- (refer to Table T-2 of GESF - J6 Finance, Insurance, Real Estate and Busiess Services)
Sewage generation rate	=	**179.6**	m^3/day
2a. Harbour View Gardens (East)			
Number of units	=	1071	units (from Centaline: https://hk.centanet.com/estate/en/Taikoo-Shing-Harbour-View-Gardens-East/2-OVDUURFSOJ)
Number of residents	=	2999	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**809.7**	m^3/day
2b. Swimming Pool in Harbour View Gardens			
Assumed area	=	280.0	m^2
Assumed depth of water	=	1.5	m
Volume of water	=	420.0	m^3
Turnover Rate	=	6.0	hr (CAP132, Section 42 Swimming Pools Regulation (open air pool))
Surface loading rate of filter	=	50.0	$m^3/m^2/hr$
Filter areas required	=	1.4	m^2
Backwashing flow rate	=	30.0	$m^3/m^2/hr$
Design flow for backwashing	=	42.0	m^3/hr
Backwash duration	=	3.0	min/day
Backwash generation rate	=	2.10	m^3/day
Backwash generation rate	=	**11.7**	litre/sec
3. Ngan Sing Mansion			
Number of units	=	208	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	582	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**157.1**	m^3/day
4. Kam Sing Mansion			
Number of units	=	208	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	582	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**157.1**	m^3/day
5. Wai Sing Mansion			
Number of units	=	208	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	582	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**157.1**	m^3/day
5. Hoi Sing Mansion			
Number of units	=	208	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	582	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**157.1**	m^3/day
6. Tien Sing Mansion			
Number of units	=	208	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	582	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**157.1**	m^3/day
7. Hang Sing Mansion			
Number of units	=	208	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	582	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**157.1**	m^3/day
8. Restaurants			
Assumed area	=	662	m^2
Assumed floor area per employee	=	19.6	m^2 per employee -- (refer to Table 8 of CIFSUS - Restaurant)
Total number of employees	=	34	employees
Design flow for commercial employees	=	1.58	m^3/employee/day -- (refer to Table T-2 of GESF - J10 Restaurant & Hotels)
Sewage generation rate	=	**53.3**	m^3/day
Total Flow from the Catchment F			
Flow rate	=	1985.5	m^3/day
Flow rate with P_{CIF}	=	2481.9	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	9192	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	5	(refer to Table T-5 of GESF for a population between 1,000 - 5,000 incl. stormwater allowance)
Peak flow	=	**143.6**	litre/sec
Total Flow from the Future Development and Catchment A, B, C, D, E and F to FMH7036249			
Flow rate	=	10149.4	m^3/day
Flow rate with P_{CIF}	=	12686.8	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	46988	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	4	(refer to Table T-5 of GESF for a population between 5,000 - 10,000 incl. stormwater allowance)
Peak flow (without swimming pool)	=	**587.4**	litre/sec
Peak flow (with swimming pool)	=	**629.8**	litre/sec

Table 8 Calculation for Sewage Generation Rate of Catchment G

1. Pak Hoi Mansion			
Number of units	=	216	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
2. Nam Hoi Mansion			
Number of units	=	216	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
3. Tung Hoi Mansion			
Number of units	=	216	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
4. Swimming Pool in Kwun Hoi Terrace			
Assumed area	=	200.0	m^2
Assumed depth of water	=	1.5	m
Volume of water	=	300.0	m^3
Turnover Rate	=	6.0	hr (CAP132, Section 42 Swimming Pools Regulation (open air pool))
Surface loading rate of filter	=	50.0	$m^3/m^2/hr$
Filter areas required	=	1.0	m^2
Backwashing flow rate	=	30.0	$m^3/m^2/hr$
Design flow for backwashing	=	30.0	m^3/hr
Backwash duration	=	3.0	min/day
Backwash generation rate	=	1.50	m^3/day
Backwash generation rate	=	**8.3**	litre/sec
5. Saint Anna Anglo Chinese Kindergarten			
Total number of teachers & staff	=	16	people (information from https://kgp2024.azurewebsites.net/edb/schoolinfo.php?lang=en&schid=5939&district=hkeast&category=&voucher=&schoolno=&schoolname=%E8%81%96%E5%AE%89%E5%A8%9C%E4%B8%AD%E8%8B%B1%E6%96%87%E5%B9%BC%E7%A8%9A%E5%9C%92&othe
Design flow for teachers & staff	=	0.28	m^3/person/day (refer to Table T-2 of GESF , Community, Social & Personal Services)
Total number of students	=	173	people (information from https://kgp2024.azurewebsites.net/edb/schoolinfo.php?lang=en&schid=5939&district=hkeast&category=&voucher=&schoolno=&schoolname=%E8%81%96%E5%AE%89%E5%A8%9C%E4%B8%AD%E8%8B%B1%E6%96%87%E5%B9%BC%E7%A8%9A%E5%9C%92&othe
Design flow for students	=	0.04	m^3/person/day (refer to Table T-2 of GESF, School Student)
Sewage Generation rate	=	**11.4**	m^3/day
Total Flow from the Catchment G			
Flow rate	=	501.5	m^3/day
Flow rate with P_{CIF}	=	501.5	m^3/day (refer to Table T-4 of GESF - North Point - 1.0)
Contributing population	=	1857	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	6	(refer to Table T-5 of GESF for a population between 1,000 - 5,000 incl. stormwater allowance)
Peak flow	=	**34.8**	litre/sec
Total Flow from the Future Development and Catchment A, B, C, D, E, F and G to FMH7036266			
Flow rate	=	10650.9	m^3/day
Flow rate with P_{CIF}	=	13313.6	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	49310	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	4	(refer to Table T-5 of GESF for a population between 10,000 - 50,000 incl. stormwater allowance)
Peak flow (without swimming pool)	=	616.4	litre/sec
Peak flow (with swimming pool)	=	**667.1**	litre/sec

Table 9 Calculation for Sewage Generation Rate of Catchment H

1. Nan Shan Mansion			
Number of units	=	216	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
2. Lu Shan Mansion			
Number of units	=	216	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
3. Tai Shan Mansion			
Number of units	=	216	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
4. Tien Shan Mansion			
Number of units	=	216	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
5. Tung Shan Mansion			
Number of units	=	216	units (from https://zh.wikipedia.org/zh-hk/%E5%A4%AA%E5%8F%A4%E5%9F%8E)
Number of residents	=	605	residents (refer to Census and Statistics Department 2021 data - average household size of 2.8 in Eastern)
Design flow	=	0.27	m^3/day (Private R2 in Table T-1 of GESF)
Sewage generation rate	=	**163.4**	m^3/day
Total Flow from the Catchment H			
Flow rate	=	816.8	m^3/day
Flow rate with P_{CIF}	=	816.8	m^3/day (refer to Table T-4 of GESF - North Point - 1.0)
Contributing population	=	3025	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical residents plus employees)
Peaking factor	=	6	(refer to Table T-5 of GESF for a population between 1,000 - 5,000 incl. stormwater allowance)
Peak flow	=	**56.7**	litre/sec
Total Flow from the Future Development and Catchment A, B, C, D, E, F, G and H to FMH7036266			
Flow rate	=	11467.6	m^3/day
Flow rate with P_{CIF}	=	14334.5	m^3/day (refer to Table T-4 of GESF - Shau Kei Wan - 1.25)
Contributing population	=	53091	people (refer to Section 12 of GESF -- Contributing population is the Flow rate with P_{CIF} ÷ 0.27, while 0.27 is the average unit flow factor of all typical
Peaking factor	=	4	(refer to Table T-5 of GESF for a population between <50,000 incl. stormwater allowance)
Peak flow (without swimming pool)	=	667.5	litre/sec
Peak flow (with swimming pool)	=	**718.3**	litre/sec

Table 10 Hydraulic Capacity of Existing Sewers

Segment	Manhole Reference	Manhole Reference	Pipe Dia. (mm)	Pipe Length (m)	Invert Level 1 (mPD)	Invert Level 2 (mPD)	g (m/s^2)	k_s (m)	s	v (m^2/s)	V (m/s)	Area (m^2)	Q (m^3/s)	Estimated Capacity (L/s)	Remark
TMH0 - S0	FLH7004609	FMH7036295	300	10.3	4.43	4.28	9.81	0.0003	0.0146	0.000001	2.07	0.071	0.1	146.1	
S0 - S1	FMH7036295	FMH7036243	750	13.4	0.63	0.59	9.81	0.0003	0.0030	0.000001	1.64	0.442	0.7	723.6	
S1 - S2	FMH7036243	FMH7036245	750	14.3	0.59	0.58	9.81	0.0015	0.0007	0.000001	0.66	0.442	0.3	290.3	
S2 - S3	FMH7036245	FMH7036246	900	70.3	0.42	0.36	9.81	0.0015	0.0009	0.000001	0.82	0.636	0.5	519.5	
S3 - S4	FMH7036246	FMH7036248	900	74.3	0.36	0.30	9.81	0.0015	0.0008	0.000001	0.79	0.636	0.5	505.2	
S4 - S5	FMH7036248	FMH7036297	900	37.6	0.3	N/A	9.81	0.0015	0.0067	0.000001	2.29	0.636	1.5	1457.4	(5) (7)
S5 - S6	FMH7036297	FMH7036249	900	5.9	N/A	0.26	9.81	0.0015	0.0067	0.000001	2.29	0.636	1.5	1457.4	(5) (7)
S6 - S7	FMH7036249	FMH7036266	900	59.3	0.26	0.2	9.81	0.0003	0.0010	0.000001	1.06	0.636	0.7	672.7	
S7 - S8	FMH7036266	FLH7017485	900	87.5	0.19	0.08	9.81	0.0003	0.0013	0.000001	1.18	0.636	0.8	751.5	
S8 - S9	FLH7017485	FMH7036269	900	21.3	0.08	0.05	9.81	0.0003	0.0014	0.000001	1.25	0.636	0.8	796.7	
S9 - S10	FMH7036269	FMH7036270	900	27.6	0.05	0.01	9.81	0.0003	0.0014	0.000001	1.27	0.636	0.8	807.8	
S10 - S11	FMH7036270	FSH7001300	900	2.4	0.01	N/A	9.81	0.0003	/	0.000001	#VALUE!	0.636	#VALUE!	#VALUE!	(5) (6)
S11 - S12	FSH7001300	FMH7036273	750	1.7	N/A	N/A	9.81	0.0003	/	0.000001	#VALUE!	0.442	#VALUE!	#VALUE!	(5) (6)
S12 - S13	FMH7036273	FMH7036292	750	0.9	2.26	N/A	9.81	0.0003	0.0067	0.000001	2.46	0.442	1.1	1086.3	(5) (7)
S13 - S14	FMH7036292	FMH7036293	750	5.0	N/A	N/A	9.81	0.0003	0.0067	0.000001	2.46	0.442	1.1	1086.3	(5) (7)
S14 - S15	FMH7036293	FMH7036294	750	21.1	N/A	2.1	9.81	0.0003	0.0067	0.000001	2.46	0.442	1.1	1086.3	(5) (7)
S15 - S16	FMH7036292	FMH7036288	750	4.7	2.1	1.7	9.81	0.0003	0.0843	0.000001	8.81	0.442	3.9	3890.9	

Remarks: (1) g=gravitational acceleration; k_s=equivalent sand roughness; s=gradient; v=kinematic viscosity of water; V=mean velocity

(2) The values of ks = 1.5mm and 0.3mm is used for the calculation of slimed uPVC sewer, poor condition @mean velocity = approximately 0.75m/s and 1.2m/s (based on Table 5: Recommended Roughness Values in Sewerage Manual)

(3) The value of velocity (V) is referred to the Tables for the hydraulic design of pipes, sewers and channels (8th edition)

(4) Equation used: $$V=-\sqrt{(8gDs)}\log\left(\frac{k_s}{3.7D}+\frac{2.51v}{D\sqrt{(2gDs)}}\right)$$

(5) N/A = No information is provided in the geoinfo map and sewerage plan provided by DSD.

(6) The calculations for segments S10-S11 and S11-S12 are further conducted in Table 13.

(7) As there are no invert level information for FMH7036292 and FMH7036293, the slope of the segment is assumed to be in 1/150.

Table 11 Contributions of Sewage generated from the subject site and Catchments

Segment	Pipe Dia. (mm)	Pipe Length (m)	Gradient	Estimated Capacity (L/s)	Included Catchment	Estimated Flow from the Proposed Development only (L/s)	Contributed by the Proposed Development only (%)	Estimated Flow from the Proposed Development and Catchments (L/s)	Contributed by the Proposed Development and Catchments (%)	Status	Remark
TMH0 - S0	300	10.3	0.0146	146.1	Proposed Development + Catchment A	13.0	8.9	39.6	27.1	OK	
S0 - S1	750	13.4	0.0030	723.6	Proposed Development + Catchment A+B	13.0	1.8	354.1	48.9	OK	
S1 - S2	750	14.3	0.0007	290.3	Proposed Development + Catchment A+B+C	13.0	4.5	400.7	138.0	Spill	[1]
S2 - S3	900	70.3	0.0009	519.5	Proposed Development + Catchment A+B+C+D	13.0	2.5	459.8	88.5	OK	
S3 - S4	900	74.3	0.0008	505.2	Proposed Development + Catchment A+B+C+D+E	13.0	2.6	503.2	99.6	Spill	
S4 - S5	900	37.6	0.0067	1457.4	Proposed Development + Catchment A+B+C+D+E	13.0	0.9	503.2	34.5	OK	
S5 - S6	900	5.9	0.0067	1457.4	Proposed Development + Catchment A+B+C+D+E+F	13.0	0.9	629.8	43.2	OK	
S6 - S7	900	59.3	0.0010	672.7	Proposed Development + Catchment A+B+C+D+E+F	13.0	1.9	629.8	93.6	Spill	
S7 - S8	900	87.5	0.0013	751.5	Proposed Development + Catchment A+B+C+D+E+F+G	13.0	1.7	667.1	88.8	OK	
S8 - S9	900	21.3	0.0014	796.7	Proposed Development + Catchment A+B+C+D+E+F+G+H	13.0	1.6	718.3	90.2	OK	
S9 - S10	900	27.6	0.0014	807.8	Proposed Development + Catchment A+B+C+D+E+F+G+H	13.0	1.6	718.3	88.9	OK	
S10 - S11	900	2.4	/	#VALUE!	Proposed Development + Catchment A+B+C+D+E+F+G+H	13.0	#VALUE!	718.3	#VALUE!	#VALUE!	[2]
S11 - S12	750	1.7	/	#VALUE!	Proposed Development + Catchment A+B+C+D+E+F+G+H	13.0	#VALUE!	718.3	#VALUE!	#VALUE!	[2]
S12 - S13	750	0.9	0.0067	1086.3	Proposed Development + Catchment A+B+C+D+E+F+G+H	13.0	1.2	718.3	66.1	OK	
S13 - S14	750	5.0	0.0067	1086.3	Proposed Development + Catchment A+B+C+D+E+F+G+H	13.0	1.2	718.3	66.1	OK	
S14 - S15	750	21.1	0.0067	1086.3	Proposed Development + Catchment A+B+C+D+E+F+G+H	13.0	1.2	718.3	66.1	OK	
S15 - S16	750	4.7	0.0843	3890.9	Proposed Development + Catchment A+B+C+D+E+F+G+H	13.0	0.3	718.3	18.5	OK	

[1] Further calculation is conducted in Table 12
[2] The calculations for segments S10-S11 and S11-S12 are further conducted in Table 13.

Table 12a Hydraulic Capacity of Existing Sewers for Segment TMH0 to S5 -- surcharge condition

Segment	Manhole Reference	Manhole Reference	Pipe Dia.	Pipe Length	Invert Level 1	Invert Level 2	Foulwater Level 1	Foulwater Level 2	Cover Level 1	Cover Level 2	Freeboard 1	Freeboard 2	Friction Loss	Entry and Exit Loss	g	k_s	Required $s_{hydraulic}$	v	V	Area	Q [6]	Delivered Flow rate
			mm	m	mPD	mPD	mPD	mPD	mPD	mPD	m	m	m	m	m/s^2	m	-	m^2/s	m/s	m^2	m^3/s	L/s
TMH0 - S0	FLH7004609	FMH7036295	300	10.3	4.43	4.28	1.57	1.54	4.43	5.80	2.86	4.26	0.01	0.02	9.81	0.0003	0.0011	0.000001	0.56	0.07	0.04	39.6
S0 - S1	FMH7036295	FMH7036243	750	13.4	0.63	0.59	1.54	1.48	5.80	5.20	4.26	3.72	0.01	0.05	9.81	0.0003	0.0007	0.000001	0.80	0.44	0.35	354.1
S1 - S2	FMH7036243	FMH7036245	750	14.3	0.59	0.58	1.48	1.39	5.20	5.15	3.72	3.76	0.02	0.06	9.81	0.0015	0.0013	0.000001	0.91	0.44	0.40	400.7
S2 - S3	FMH7036245	FMH7036246	900	70.3	0.42	0.36	1.39	1.31	5.15	4.90	3.76	3.59	0.05	0.04	9.81	0.0015	0.0007	0.000001	0.72	0.64	0.46	459.8
S3 - S4	FMH7036246	FMH7036248	900	74.3	0.36	0.3	1.31	1.20	4.90	4.63	3.59	3.43	0.06	0.05	9.81	0.0015	0.0008	0.000001	0.79	0.64	0.50	503.2
S4 - S5	FMH7036248	FMH7036297	900	37.6	0.3		1.20															

Note:
1. For this assessment, the Colebrook-White Equation has been used to calculate the friction loss. (Sewerage Mannual section 5.2.1)
2. According to DSD'sSewerage Manual (Part 1) section 5.2.2, Local losses are usually small in realtion to the pipeline head losses and are not normally considered. However, as a conservative approach, further allowances have been included for local losses at pipe entry (K=0.5) and exit (K = 1), with a total local loss coefficient of 1.5
3. Friction loss is deduced by required hydraulic gradient x pipe length, while the local loss is deduced by the equation:

$$h_f = K\frac{V^2}{2g}$$

4. Comparing the Cover levels and foulwater levels at manhole between FLH7004609 and FMH7036297, the freeboards are found sufficient (>1m). Therefore, no unacceptable adverse sewerage impacts are identified for manhole from FLH7004609 to FMH7036297. Further calculation (i.e. 1.15 Safety factor) is conducted in Table 12b.

Table 12b Hydraulic Capacity of Existing Sewers TMH0 to S5 - surcharge condition with 1.15 safety factor

Segment	Manhole Reference	Manhole Reference	Pipe Dia.	Pipe Length	Invert Level 1	Invert Level 2	Foulwater Level 1	Foulwater Level 2	Cover Level 1	Cover Level 2	Freeboard 1	Freeboard 2	Friction Loss	Entry and Exit Loss	g	k_s	Required $s_{hydraulic}$	v	V	Area	Q [6]	Required Peak Flow
			mm	m	mPD	mPD	mPD	mPD	mPD	mPD	m	m	m	m	m/s^2	m	-	m^2/s	m/s	m^2	m^3/s	L/s
TMH0 - S0	FLH7004609	FMH7036295	300	10.3	4.43	4.3	1.69	1.64	4.43	5.80	2.74	4.16	0.02	0.03	9.81	0.0003	0.0015	0.000001	0.64	0.07	0.05	45.5
S0 - S1	FMH7036295	FMH7036243	750	13.4	0.63	0.6	1.64	1.57	5.80	5.20	4.16	3.63	0.01	0.06	9.81	0.0003	0.0010	0.000001	0.92	0.44	0.41	407.2
S1 - S2	FMH7036243	FMH7036245	750	14.3	0.59	0.6	1.57	1.46	5.20	5.15	3.63	3.69	0.03	0.08	9.81	0.0015	0.0017	0.000001	1.04	0.44	0.46	460.8
S2 - S3	FMH7036245	FMH7036246	900	70.3	0.42	0.4	1.46	1.34	5.15	4.90	3.69	3.56	0.06	0.05	9.81	0.0015	0.0009	0.000001	0.83	0.64	0.53	528.8
S3 - S4	FMH7036246	FMH7036248	900	74.3	0.36	0.3	1.34	1.20	4.90	4.63	3.56	3.43	0.08	0.06	9.81	0.0015	0.0011	0.000001	0.91	0.64	0.58	578.7
S4 - S5	FMH7036248	FMH7036297	900	37.6	0.3		1.20															

Note:
1. For this assessment, the Colebrook-White Equation has been used to calculate the friction loss. (Sewerage Mannual section 5.2.1)
2. According to DSD'sSewerage Manual (Part 1) section 5.2.2, Local losses are usually small in realtion to the pipeline head losses and are not normally considered. However, as a conservative approach, further allowances have been included for local losses at pipe entry (K=0.5) and exit (K = 1), with a total local loss coefficient of 1.5
3. Friction loss is deduced by required hydraulic gradient x pipe length, while the local loss is deduced by the equation:

$$h_f = K\frac{V^2}{2g}$$

4. Comparing the Cover levels and foulwater levels at manhole between FLH7004609 and FMH7036297, the freeboards are found sufficient (>0m). Therefore, no unacceptable adverse sewerage impacts are identified for manhole from FLH7004609 to FMH7036297.

Remarks:
(1) g=gravitational acceleration; k_s=equivalent sand roughness; s=gradient; v=kinematic viscosity of water; V=mean velocity
(2) Table 5a & 5b: The value of ks is with reference to Table 2.
(3) The value of velocity (V) is referred to the Tables for the hydraulic design of pipes, sewers and channels (8th edition)
(4) Equation used:

$$V = -\sqrt{(8gDs)}\log\left(\frac{k_s}{3.7D} + \frac{2.51\nu}{D\sqrt{(2gDs)}}\right)$$

Table 13 Contributions of Sewage generated from the Subject Site on Tai Koo Shing Pumping Station (TKSPS)

Design Capacity of Tai Koo Shing Pumping Station (m3/day)	Design Capacity of Tai Koo Shing Pumping Station (L/s)	Estimated Flow from the Proposed Development (L/s)	Contributed by the Proposed Development (%)
22464	260	13.0	5%

Appendix 2.2 Sewerage Record Plans obtained from DSD

青松閣
Pine Mansion
翠榕閣
Banyan Mansion
綠楊閣
Willow Mansion
海景花園
Harbour View Gardens
紫樺閣
Oak Mansion
金楓閣
Maple Mansion
銀栢閣
Juniper Mansion
Cityplaza Three
平台
Podium
高安閣
Ko On Mansion
安盛臺
On Shing Terrace
建安閣
Kin On Mansion
興安閣
Hing On Mansion
順安閣
Shun On Mansion
寶安閣
Po On Mansion
寧安閣
Ning On Mansion
隋宮閣
Tsui Kung Mansion
齊宮閣
Chai Kung Mansion
漢宮閣
Han Kung Mansion
夏宮閣
Hsia Kung Mansion
明宮閣
Ming Kung Mansion
元宮閣
Yuan Kung Mansion
唐宮閣
Tang Kung Mansion
金殿臺
Kam Din Terrace
太古城
TAIKOO SHING
太古城道
TAIKOO SHING ROAD
TAIKOO WAN ROAD
KING'S ROAD
TAI KUE AVENUE
TAI MOU AVENUE
羽毛球場
Badminton Court
燕宮閣
Yen Kung Mansion
啟天閣
Kai Tien Mansion
海天閣
Hoi Tien Mansion
富天閣
Fu Tien Mansion
海天花園
Horizon Gardens
平台
（下層太古城中心及停車場）
Podium
(Cityplaza and Car Park under)
景天閣
King Tien Mansion
南天閣
Nam Tien Mansion
逸天閣
Yat Tien Mansion
太古電站
Taikoo Station Building
長華工業大廈
Cheung Wah Industrial Building
華廈工業大廈
Wah Ha Factory Building
康山花園
Kornhill Gardences
東隅
east
HONG KONG
太古城中心
Cityplaza
（下層港鐵進出口）
(MTR access under)
3座 Block 3
5座 Block 5
6座 Block 6
2座 Block 2
Podium
EW
CW

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海天閣
Hoi Tien Mansion

富天閣
Fu Tien Mansion

彩天閣
Choi Tien Mansion

海天花園
Horizon Gardens

平台
（下層太古城中心及停車場）
Podium
(Cityplaza and Car Park under)

恆天閣
Heng Tien Mansion

拾圃
Piazza Verde

銀星閣
Ngan Sing Mansion

金星閣
Kam Sing Mansion

星輝臺
Sing Fai Terrace

平台
Podium

太古城
TAIKOO SHING

恒星閣
Hang Sing Mansion

天星閣
Tien Sing Mansion

海景花園
Harbour View Gardens

平台
Podium

太古軒
Taikoo Pavilion

觀海臺
Kwun Hoi Terrace

平台
Podium

北海閣
Pak Hoi Mansion

南天閣
Nam Tien Mansion

逸天閣
Yat Tien Mansion

冠天閣
Kwun Tien Mansion

智星閣
Chi Sing Mansion

耀星閣
Yiu Sing Mansion

衛星閣
Wai Sing Mansion

海星閣
Hoi Sing Mansion

南海閣
Nam Hoi Mansion

東海閣
Tung Hoi Mansion

太古城中心
Cityplaza
（下層港鐵進出口）
(MTR access under)

平台
Podium

太古城中心一座
Cityplaza One
下層停車場
(Car Park under)

下層綜合商業中心
(Commercial Complex under)

平台
Podium

富山閣
Fu Shan Mansion

華山閣
Wah Shan Mansion

東山閣
Tung Shan Mansion

金山閣
Kam Shan Mansion

鳳山閣
Foong Shan Mansion

龍山閣
Loong Shan Mansion

恒山閣
Heng Shan Mansion

天山閣
Tien Shan Mansion

怡山閣
Yee Shan Mansion

運動場
Sports Ground

寶山閣
Po Shan Mansion

南山閣
Nan Shan Mansion

盧山閣
Lu Shan Mansion

高山臺
Kao Shan Terrace

平台
Podium

TAIKOO SHING ROAD

TAIKOO SHING ROAD

TAIKOO SHING ROAD

TAIKOO SHING ROAD

TAIKOO DRIVING AVENUE

TAI KOO DRIVING AVENUE

TAI KOO DRIVING AVENUE

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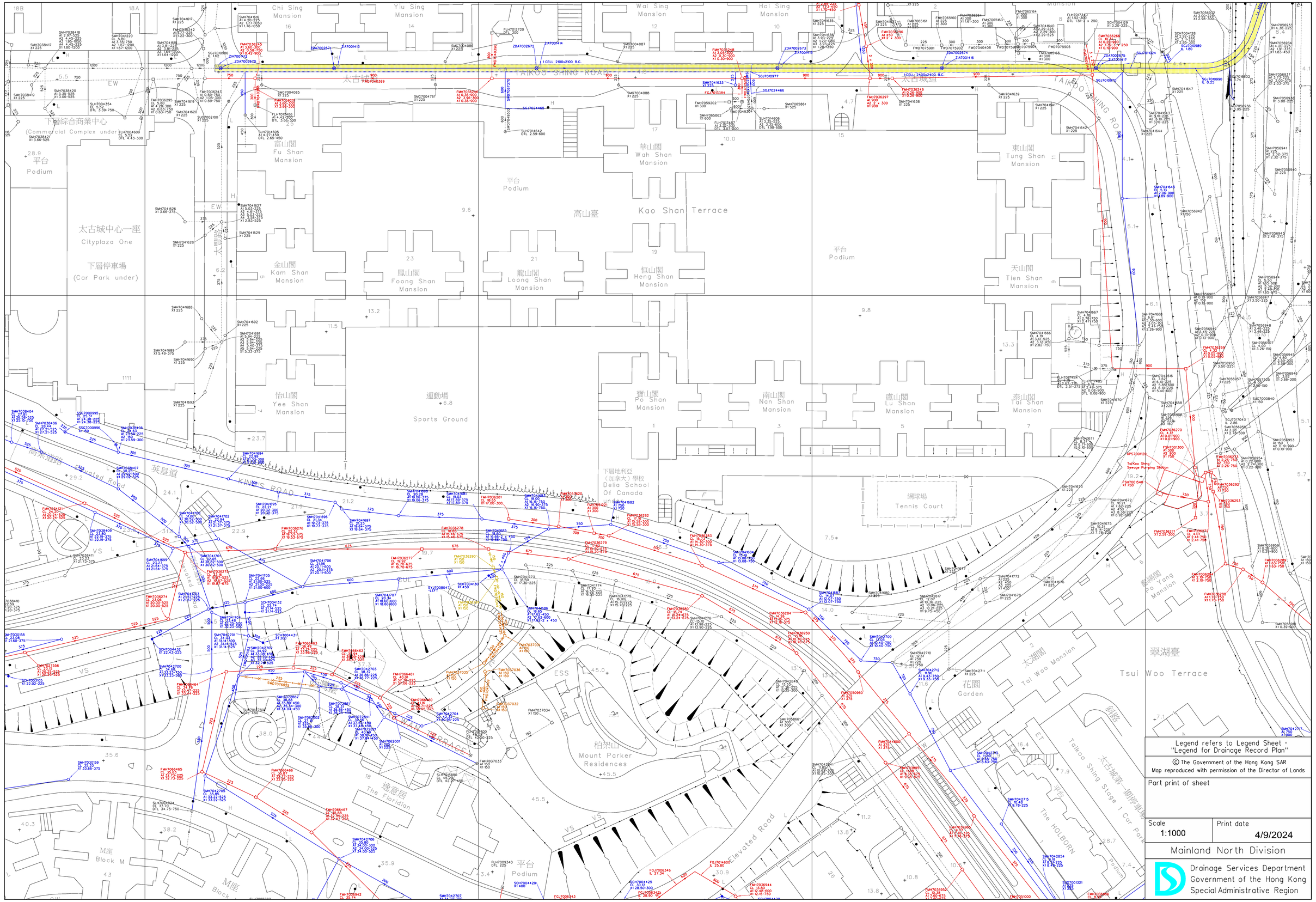
太古城中心一座
Cityplaza One
下層停車場
(Car Park under)
下層綜合商業中心
(Commercial Complex under)
平台
Podium
Chi Sing Mansion
Yiu Sing Mansion
Wai Sing Mansion
Hoi Sing Mansion
Tung Shing Mansion
Fu Shan Mansion
Wah Shan Mansion
Kao Shan Terrace
高山臺
Kam Shan Mansion
Foong Shan Mansion
Loong Shan Mansion
Heng Shan Mansion
Tung Shan Mansion
Tien Shan Mansion
Yee Shan Mansion
Po Shan Mansion
Nan Shan Mansion
Lu Shan Mansion
Tai Shan Mansion
運動場
Sports Ground
Delia School Of Canada
下層地利亞(加拿大)學校
網球場
Tennis Court
TAIKOO SHING ROAD
太古城道
KINGS ROAD
英皇道
Elevated Road
TAIKOO SHING ROAD FLYOVER
太古城道天橋
TAIKOO SHING ROAD WESTBOUND
太古城道往西行方向
TAIKOO SHING ROAD EASTBOUND
太古城道往東行方向
QUEENSWAY WESTBOUND
金鐘道往西行方向
QUEENSWAY EASTBOUND
金鐘道往東行方向
HARBOUR ROAD
港灣道
TAI HANG ROAD
大坑道
TAI HANG ROAD FLYOVER
大坑道天橋
HENNESSY ROAD
軒尼詩道
HENNESSY ROAD FLYOVER
軒尼詩道天橋
HENNESSY ROAD WESTBOUND
軒尼詩道往西行方向
HENNESSY ROAD EASTBOUND
軒尼詩道往東行方向
Mount Parker Residences
柏架山
The Floridian
逸意居
Tai Woo Mansion
大湖閣
Tsui Woo Terrace
翠湖臺
Po Yang Mansion
寶洋閣
花園
Garden
Talkoo Shing Stage 1 Car Park
太古城第一期停車場
Talkoo Shing Sewage Pumping Station
太古城污水抽水站
THE HOLBORN
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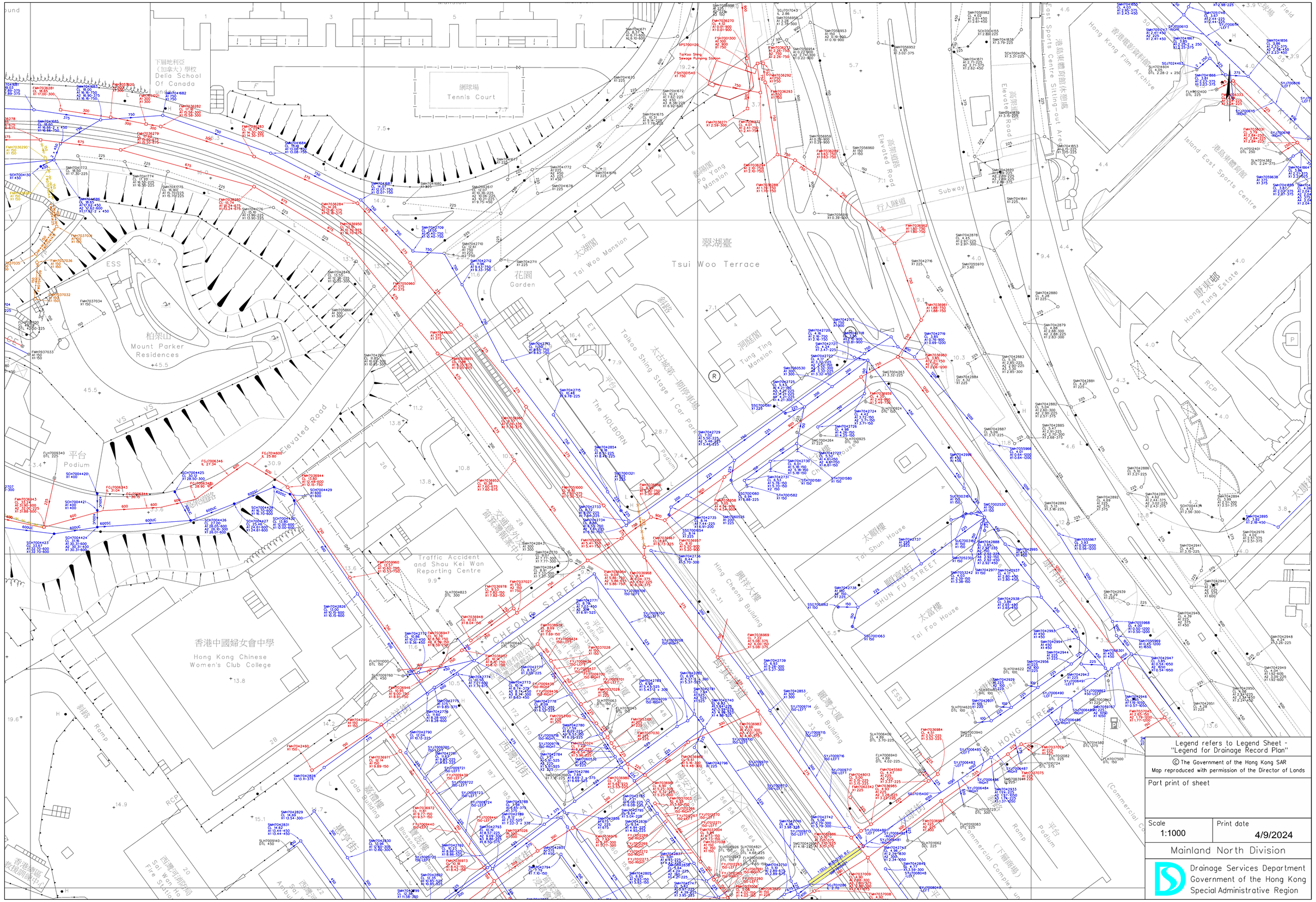
下層地利亞(加拿大)學校
Delia School Of Canada (Lower Campus)
網球場
Tennis Court
Tai Koo Shing Sewage Pumping Station
Tai Koo Shing Stage 1 Car Park
太古城第一期停車場
Tai Woo Mansion
太湖閣
Tsui Woo Terrace
翠湖臺
Tung Ting Mansion
洞庭閣
Po Tong Mansion
寶堂閣
花園
Garden
斜路
Ramp
行人隧道
Subway
Elevated Road
高架道路
Mount Parker Residences
柏架山
Hong Kong Film Archive
香港電影資料館
East Sports Centre Sitting-out Area
Island East Sports Centre
港島東體育館
Hong Tung Estate
康東邨
Field
場地
Podium
平台
Traffic Accident and Shau Kei Wan Reporting Centre
Hong Cheong Building
興祥大樓
Tai Shun House
太順樓
SHUN FU STREET
順富街
Tai Foo House
太富樓
Lok Won Building
樂滙大廈
HONG STREET
康東街
Hong Chiu House
康昭樓
Hong Yip Service Centre
康業服務中心
Hong Chiu Court
康昭苑
Hong Tung Court
康東苑
Commercial Complex
(Commercial Co...)
(商業綜合大樓)
Hong Chiu Road
康昭道
Hong Yip Street East
康業街東
Hong Yip Street West
康業街西
Hong Chiu Street
康昭街
Hong Tung Street
康東街
Sai Wan Ho Fire Station
西灣河消防局
Hong Chiu Street Playground
康昭街遊樂場
Hong Chiu Street Garden
康昭街花園
Hong Chiu Street Bioswale
康昭街雨水生物滯留池
Hong Chiu Street Soft Landscape
康昭街軟地園景
Hong Chiu Street Footpath
康昭街行人路
Hong Chiu Street Carriageway
康昭街車道
Hong Chiu Street Cycle Track
康昭街單車徑
Hong Chiu Street Planter
康昭街花槽
Hong Chiu Street Utility Reserve
康昭街公用事業預留地
Hong Chiu Street Verge
康昭街路旁地帶
Hong Chiu Street Kerb
康昭街路緣
Hong Chiu Street Drainage Reserve
康昭街排水預留地
Hong Chiu Street Service Lane
康昭街服務通道
Hong Chiu Street Loading Bay
康昭街上落客貨處
Hong Chiu Street Bus Stop
康昭街巴士站
Hong Chiu Street Taxi Stand
康昭街的士站
Hong Chiu Street Public Toilet
康昭街公廁
Hong Chiu Street Refuse Collection Point
康昭街垃圾收集點
Hong Chiu Street Recycling Bin
康昭街回收箱
Hong Chiu Street Litter Bin
康昭街垃圾箱
Hong Chiu Street Notice Board
康昭街告示板
Hong Chiu Street Bollard
康昭街柱
Hong Chiu Street Guardrail
康昭街護欄
Hong Chiu Street Railing
康昭街欄杆
Hong Chiu Street Fence
康昭街圍欄
Hong Chiu Street Wall
康昭街牆
Hong Chiu Street Retaining Wall
康昭街擋土牆
Hong Chiu Street Slope
康昭街斜坡
Hong Chiu Street Steps
康昭街梯級
Hong Chiu Street Ramp
康昭街斜路
Hong Chiu Street Lift
康昭街升降機
Hong Chiu Street Escalator
康昭街自動扶梯
Hong Chiu Street Footbridge
康昭街行人天橋
Hong Chiu Street Subway
康昭街行人隧道
Hong Chiu Street Underpass
康昭街地下通道
Hong Chiu Street Overpass
康昭街高架道路
Hong Chiu Street Viaduct
康昭街高架橋
Hong Chiu Street Tunnel
康昭街隧道
Hong Chiu Street Portal
康昭街隧道口
Hong Chiu Street Ventilation Building
康昭街通風大樓
Hong Chiu Street Substation
康昭街變電站
Hong Chiu Street Pumping Station
康昭街抽水站
Hong Chiu Street Sewage Treatment Works
康昭街污水處理廠
Hong Chiu Street Refuse Transfer Station
康昭街垃圾轉運站
Hong Chiu Street Refuse Collection Vehicle Parking Area
康昭街垃圾車停泊處
Hong Chiu Street Public Car Park
康昭街公眾停車場
Hong Chiu Street Private Car Park
康昭街私家車停車場
Hong Chiu Street Motorcycle Parking Area
康昭街電單車停泊處
Hong Chiu Street Bicycle Parking Area
康昭街單車停泊處
Hong Chiu Street Taxi Queue
康昭街的士排隊處
Hong Chiu Street Bus Queue
康昭街巴士排隊處
Hong Chiu Street Pedestrian Crossing
康昭街行人過路處
Hong Chiu Street Zebra Crossing
康昭街斑馬線
Hong Chiu Street Pelican Crossing
康昭街人車過路處
Hong Chiu Street Puffin Crossing
康昭街人車過路處
Hong Chiu Street Toucan Crossing
康昭街人車過路處
Hong Chiu Street Pedestrian Scramble
康昭街行人過路處
Hong Chiu Street Pedestrian Refuge
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Hong Chiu Street Pedestrian Sewage Treatment Works
康昭街行人污水處理廠
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Hong Chiu Street Pedestrian Sewage Treatment Works
康昭街行人行人行人行人行人行人行人污水處理廠
Hong Chiu Street Pedestrian Refuse Transfer Station
康昭街行人行人行人行人行人行人行人垃圾轉運站
Hong Chiu Street Pedestrian Refuse Collection Vehicle Parking Area
康昭街行人行人行人行人行人行人行人垃圾車停泊處
Hong Chiu Street Pedestrian Public Car Park
康昭街行人行人行人行人行人行人行人公眾停車場
Hong Chiu Street Pedestrian Private Car Park
康昭街行人行人行人行人行人行人行人私家車停車場
Hong Chiu Street Pedestrian Motorcycle Parking Area
康昭街行人行人行人行人行人行人行人電單車停泊處
Hong Chiu Street Pedestrian Bicycle Parking Area
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Hong Chiu Street Pedestrian Taxi Queue
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Hong Chiu Street Pedestrian Bus Queue
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Hong Chiu Street Pedestrian Crossing
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Hong Chiu Street Pedestrian Zebra Crossing
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Hong Chiu Street Pedestrian Escalator
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Hong Chiu Street Pedestrian Portal
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Hong Chiu Street Pedestrian Ventilation Building
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