

**Proposed Flat with Shop and Services and Eating Place Uses “Commercial” and area shown as ‘Road’
At 152-164 Wellington Street, Sheung Wan, Hong Kong
S16 Planning Application**

(Planning Application No: A/H3/449)

Appendix 3

Drainage and Sewerage Impact Assessment

Prepared for
Gallery Grove Limited

Prepared by
Ramboll Hong Kong Limited

PROPOSED FLAT WITH SHOP AND SERVICES/EATING
PLACES AT NOS.152-164 WELLINGTON STREET IN SHEUNG
WAN

DRAINAGE AND SEWERAGE IMPACT ASSESSMENT

Date March 2024

Prepared by Miko Wan
Assistant Environmental Consultant

Signed 

Approved by Calvin Chiu
Senior Manager

Signed 

Project Reference CHPWELTNEI00

Document No. R9089_v1.1

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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 Project Background

- 1.1.1 The purpose of this Section 16 application is to propose a composite redevelopment at 152-164 Wellington Street, Central. The Application Site is currently zoned as "Commercial" under the Approved Sai Ying Pun and Sheung Wan Outline Zoning Plan (OZP) No. S/H3/34.
- 1.1.2 Ramboll Hong Kong Limited is commissioned by the Applicant to conduct this Drainage and Sewerage Impact Assessment (DSIA) based on the Proposed Development. The design parameters of the Proposed Development are provided by project proponent.

1.2 Application Site and its Environs

- 1.2.1 The Application Site amounts to about 612m². It is bounded by Wellington Street to the northeast and Aberdeen Street to the northwest. The Wa On Lane Sitting-out Area is located to the south of the Application Site.
- 1.2.2 The location of the Application Site and its surrounding environs are shown in Figure 1.1.

1.3 Proposed Development

- 1.3.1 The proposed development is a composite building comprising residential and retail use. It includes a residential tower with 25 residential storeys with a total of 150 flat units, 2 clubhouse storeys, and 2 storeys allocated for retail space. A 78.6 m² indoor swimming pool is planned.
- 1.3.2 It is tentatively completed in 2030.
- 1.3.3 Master layout plan of the proposed development is included in Appendix 1.1.

1.4 Appraisal of Drainage Impact

- 1.4.1 The Application Site is served by existing public drainage system. A Ø300mm drainage pipe on east side receives runoff from the Application Site. The Application Site is already developed and currently occupied by existing buildings and are fully paved.
- 1.4.2 According to Building Department's (BD) Practice Note (APP-152), the minimum greenery coverage for residential developments is 20%. In other words, there will be reduction of surface runoff when compared with the existing condition. The surface runoff generated from the Application Site will be collected by the same drainage pipe tentatively so that there is no change of flow regime.
- 1.4.3 As such, it is expected that the Proposed Development (with reduced surface runoff and same flow regime) would not result in worsened drainage impact. Drainage submission including assessment where required will be provided in detailed design stage.

2. SEWERAGE IMPACT ASSESSMENT

2.1 Scope of Work

2.1.1 The aim of this SIA is to assess whether the capacity of the existing sewerage network serving the Application Site is sufficient to cope with the sewage flow from the proposed development. Drainage Record Plans from Drainage Services Department (DSD) were obtained for the purposes of this SIA.

2.2 Assessment Criteria and Methodology

2.2.1 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 and the existing catchment area. Sewage flow parameters and peaking factors in this document have been adopted for this SIA.

2.2.2 Based on the building types in the area, the following unit flow factors are used in the SIA calculation:

- Residents: 0.27 m³/person/day (R2)
- Clubhouse employee: 0.28 m³/day (J11 - Community, Social & Personal Services)
- Retail employee: 0.28 m³/day (J4 – Wholesale & Retail)
- F&B employee: 1.58 m³/day (J10 – Restaurants & Hotels)
- Office employee: 0.08 m³/day (J6 – Finance, Insurance, Real Estate & Business Services)

2.2.3 Catchment Inflow Factor (P_{CIF}) of Central (1.00) has been applied in the assessment.

2.3 Existing and Future Sewerage System

2.3.1 According to the Drainage Record Plans obtained from DSD, there are existing Ø150mm pipes (Manhole reference no. FMH7029762, FMH7029761, FMH7029760 and FMH7029758) connected from the Application Site to the Ø400mm sewage pipe along Wellington Street. The pipe is then connected to the Ø600mm to Ø750mm sewerage pipe along the Queen's Road Central and Bonham Strand.

2.3.2 The existing sewers in the vicinity of the Application Site are shown in Figure 2.1.

2.3.3 Four existing Ø150mm pipes (FWD7033376, FWD7033375, FWD7033374 and FWD7033372) will be abandoned and the applicant is responsible for the proposed abandoning works.; a new sewer will be constructed to connect from the Application Site to manhole no.: FMH7030011 (S1) as shown in Figure 2.1.

2.4 Wastewater Generated by the Proposed Development

2.4.1 Wastewater arising from the proposed development will be primarily contributed by the residents, clubhouse (no F&B) staff and retail (assuming 100% F&B for conservation) employee.

2.4.2 Detailed calculation for the proposed development is given in Table 2.1 below and Appendix 2.1.

Table 2.1 Estimated Peak Flow

Development Parameters	Proposed Development		
	Residential	Clubhouse	F&B
Area (m ²)	-	278	826
Number of flats	175	-	-
Assumed Household Size	2.3 ⁽¹⁾	-	-
Assumed Population	403	9	42
Design Flow (m ³ /person/day)	0.27 ⁽²⁾	0.28 ⁽⁴⁾	1.58 ⁽³⁾
Flow Rate (m ³ /day)	108.7	2.6	66.6
Flow Rate with P _{ClF} (m ³ /day)	177.8		
Peak Flow (L/s)	21.0 ⁽⁵⁾		

(1) 2.3 person/flat – 2021 Population Census: Average Household Size in Chung Wan

(2) Refer to Table T-1 of GESF – R2

(3) Refer to Table T-2 of GESF – J10 Restaurants & Hotels

(4) Refer to Table T-2 of GESF – J11 Community, Social & Personal Services

(5) Backwash discharge from swimming pool is included in the peak flow

2.5 Assessment of Sewerage Impact

2.5.1 Appendix 2.1 shows the detailed calculation on the estimated hydraulic capacity of the proposed sewer sections and existing downstream sewers and the calculation of the amount of the sewage entering each segment of the said sewer network. Total flow from the proposed development is assessed in the calculations.

2.6 Discussion

2.6.1 The potential sewerage impact due to the proposed development has been quantitatively addressed. Sewage generation rate from the proposed development is estimated to be 177.8 m³/day (i.e. peak flow with backwash from swimming pool is 21.0 litre/sec).

2.6.2 According to Table 4a of Appendix 2.1, regarding the sewage generation rate from the proposed development and surrounding areas (Figure 2.2), the new connection and existing sewer pipe would be of adequate capacity to receive the flow with consideration of freeboard under the surcharge condition.

3. OVERALL CONCLUSION

3.1 Conclusion

- 3.1.1 A residential development is proposed at 152-164 Wellington Street, Central. The potential drainage and sewerage impact has been quantitatively addressed.
- 3.1.2 The Proposed Development would result in reduced surface runoff and follow the same flow regime as under existing condition. It would not result in worsened drainage impact. Drainage submission including assessment where required will be provided in detailed design stage.
- 3.1.3 New sewer will be constructed to connect from the Application Site to manhole no.: FMH7030011. The project proponent will be responsible for the implementation of the proposed new connection pipes (T1) while the section of the new pipes (all within government land) downstream of the proposed terminal manhole is assumed to be handed over to DSD for future maintenance. Four existing sewers (FWD7033376, FWD7033375, FWD7033374 and FWD7033372) will be abandoned and the applicant is responsible for the proposed abandoning works.
- 3.1.4 Based on the sewerage impact assessment results, it is found that the capacity of the existing sewerage system serving the area and freeboard would be sufficient to cater for the sewage generation from the proposed development and nearby catchment areas.
- 3.1.5 With the proposed sewerage pipeline in place, this SIA confirms the feasibility of the proposed development in terms of impacts to the public sewerage system.

Figures

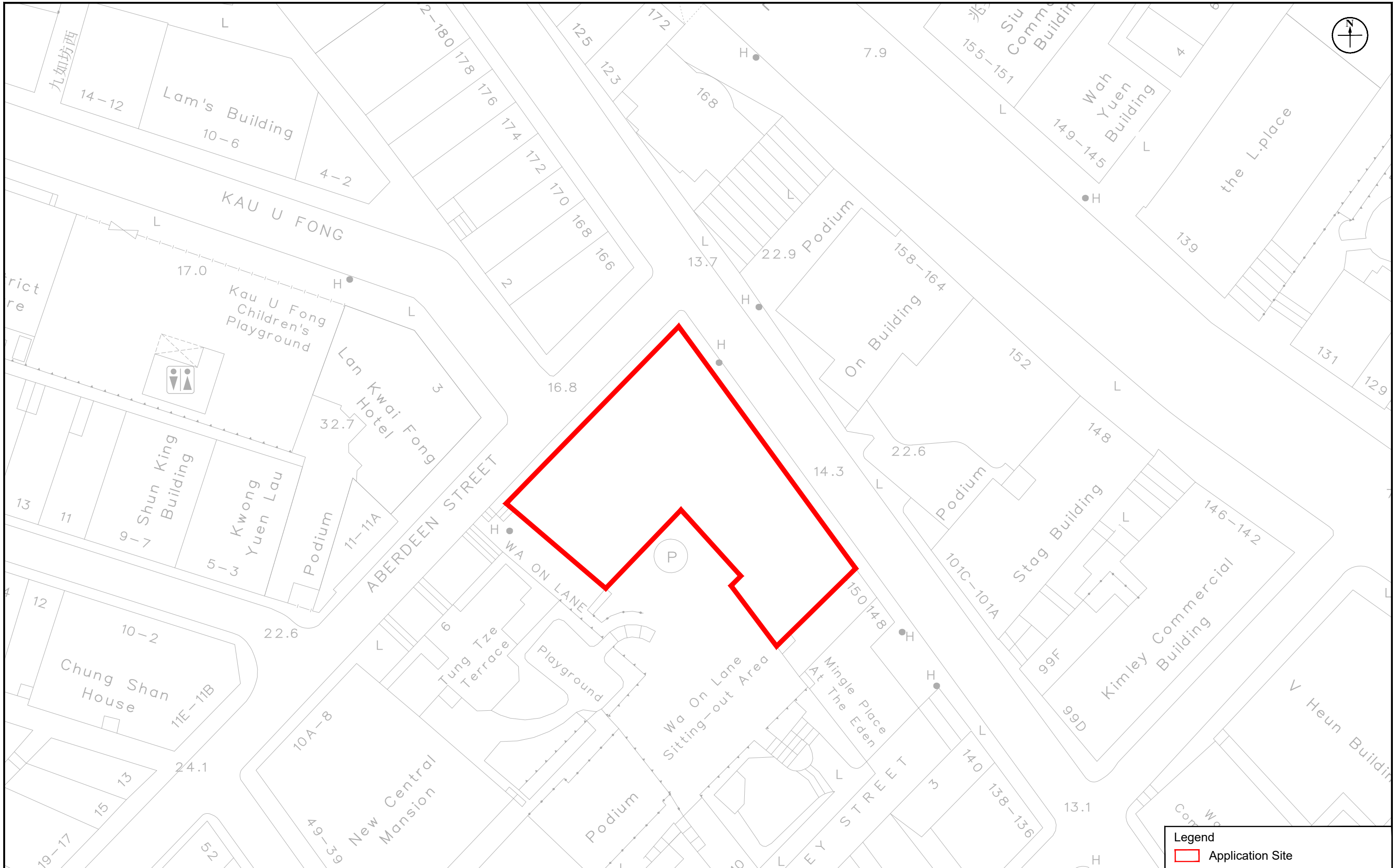


Figure: 1.1
Title: Location of the Application Site and its Environs

Project: Proposed Flat with Shop and Services/Eating Places at Nos. 152 – 164 Wellington Street in Sheung Wan

Legend	
	Application Site
RAMBOLL	
Drawn by:	MW
Checked by:	CC
Rev.:	1.1
Date:	Mar 2024

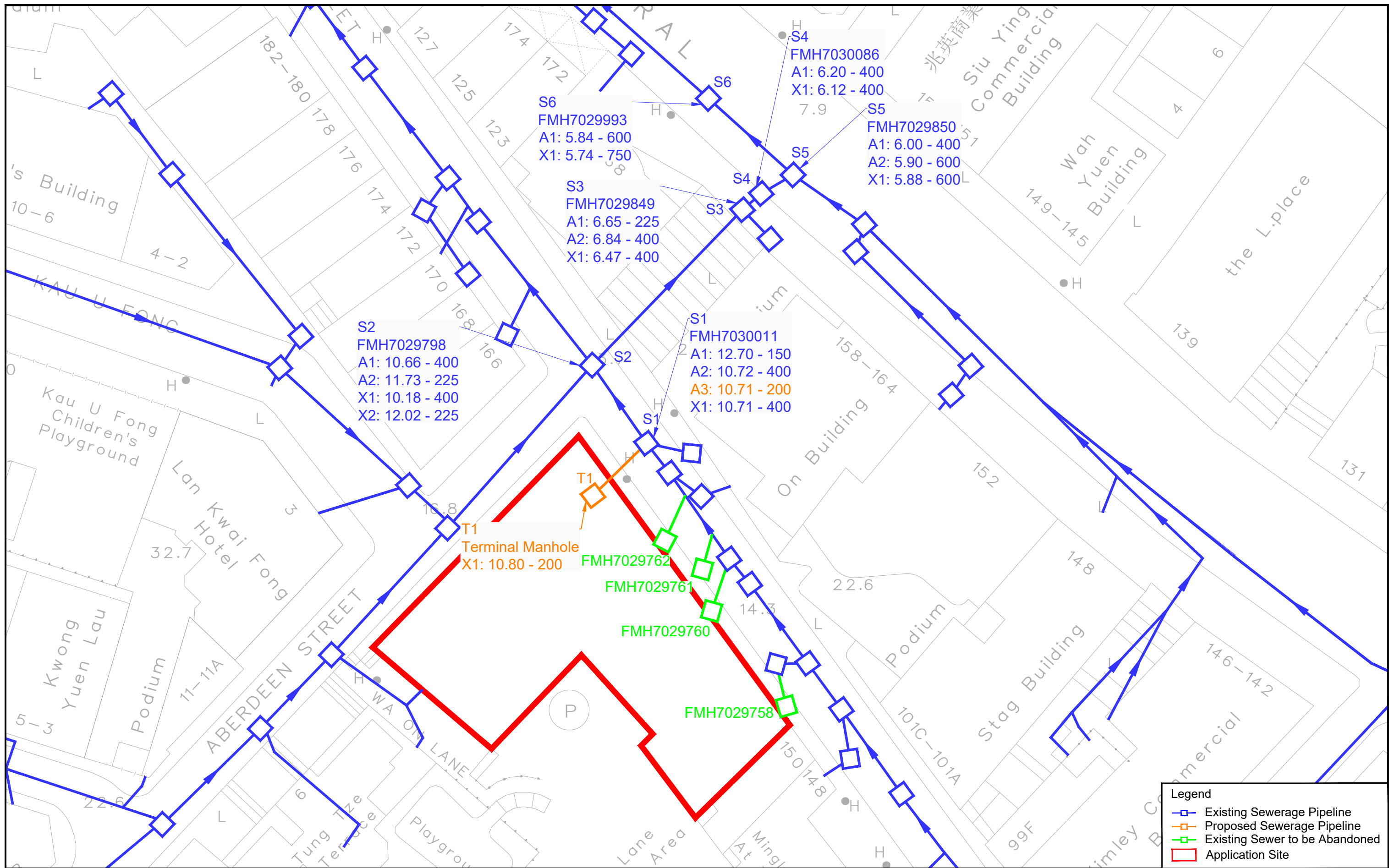


Figure: 2.1

Title: Existing and Proposed Sewerage System in the Vicinity of the Application Site

Project: Proposed Flat with Shop and Services/Eating Places at Nos. 152 – 164 Wellington Street in Sheung Wan

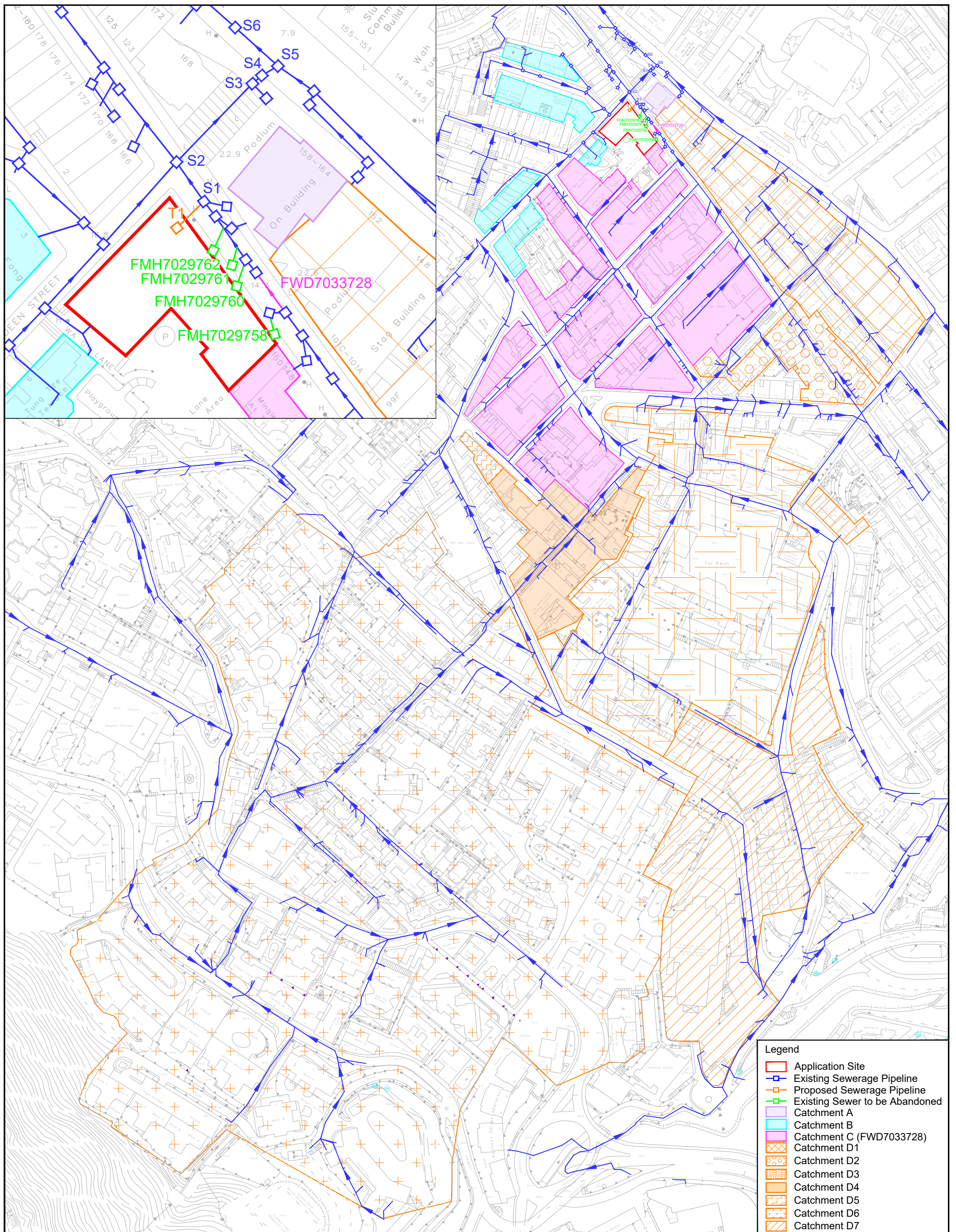


Drawn by: MW

Checked by: CC

Rev.: 1.1

Date: Mar 2024



Legend	
	Application Site
	Existing Sewerage Pipeline
	Proposed Sewerage Pipeline
	Existing Sewer to be Abandoned
	Catchment A
	Catchment B
	Catchment C (FWD7033728)
	Catchment D1
	Catchment D2
	Catchment D3
	Catchment D4
	Catchment D5
	Catchment D6
	Catchment D7

Figure: 2.2

Title: Catchment Areas in the Vicinity of the Application Site

Project: Proposed Flat with Shop and Services/Eating Places at Nos. 152 – 164 Wellington Street in Sheung Wan



Drawn by: MW

Checked by: CC

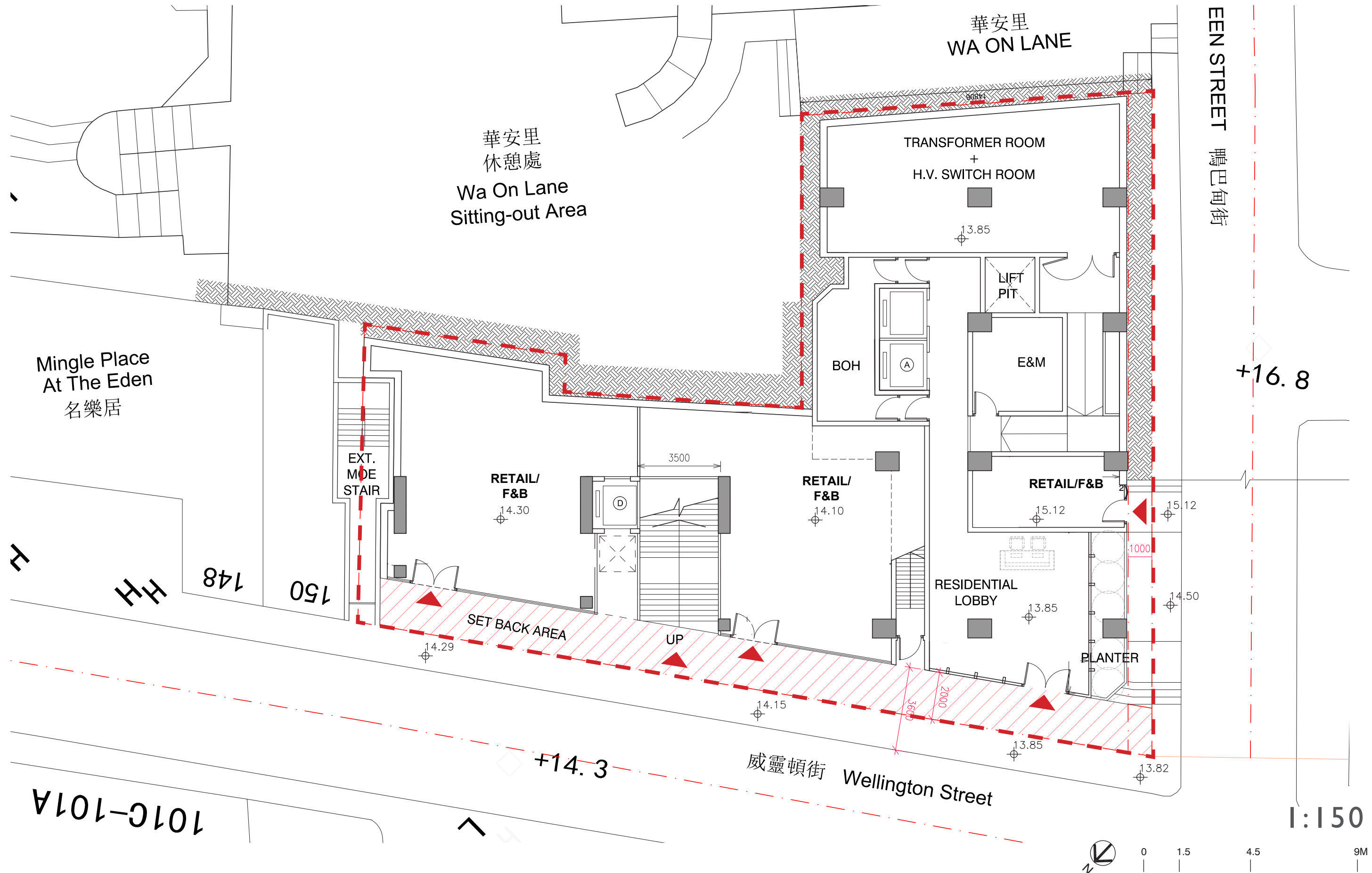
Rev.: 1.1

Date: Mar 2024

Appendix 1.1 Master Layout Plan (MLP)

PODIUM PLANS

GF

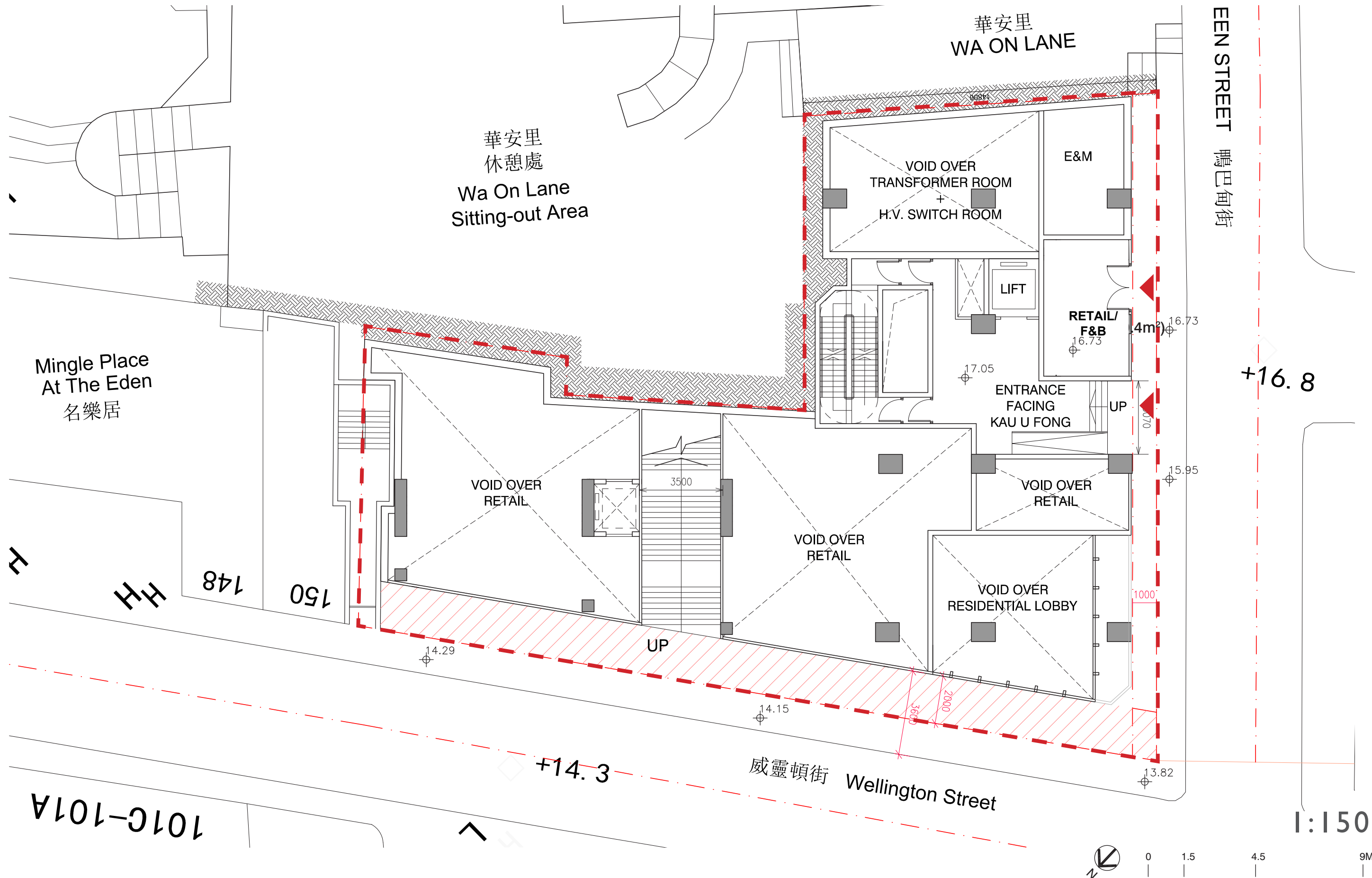


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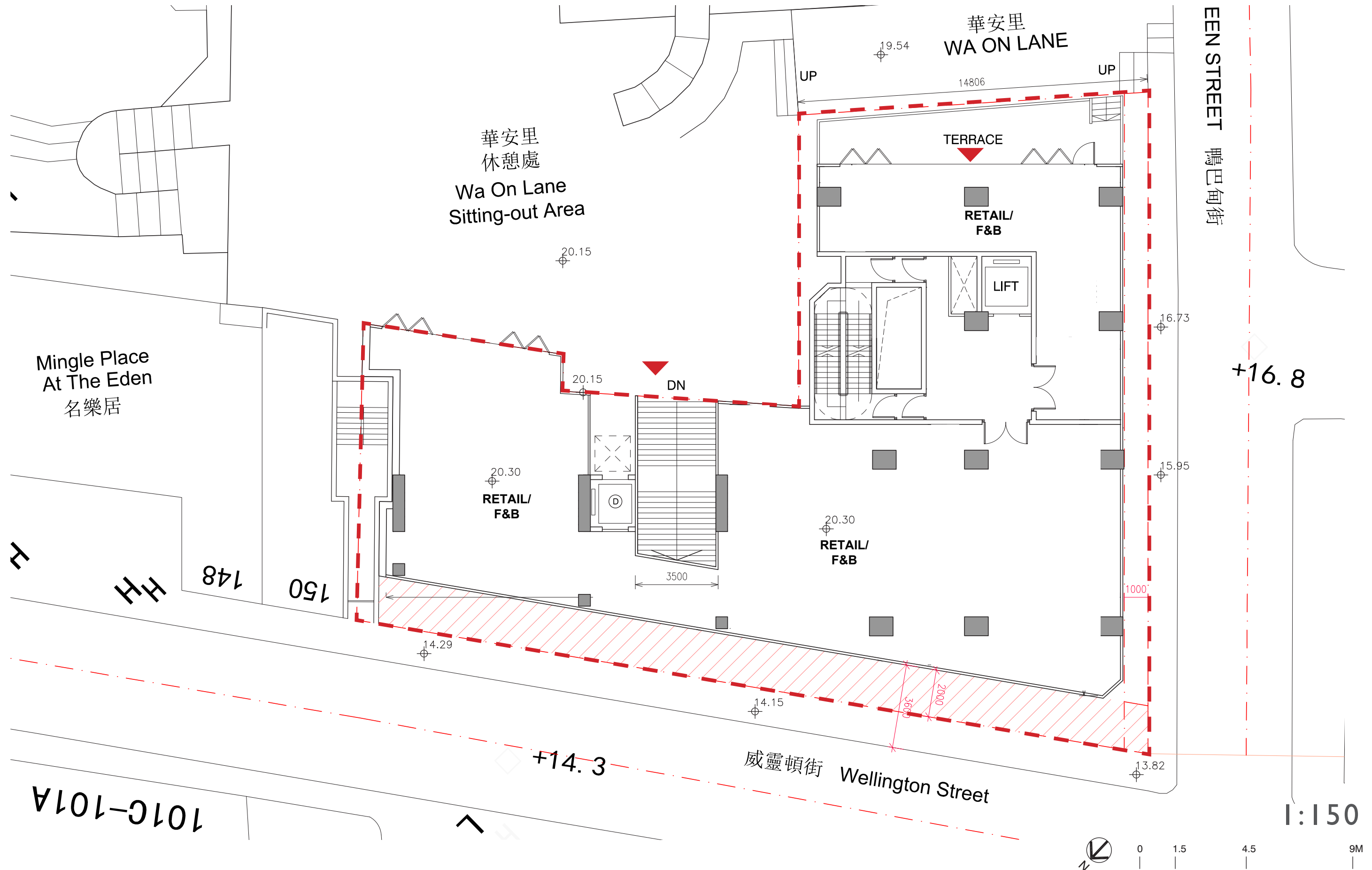
PODIUM PLANS

MF



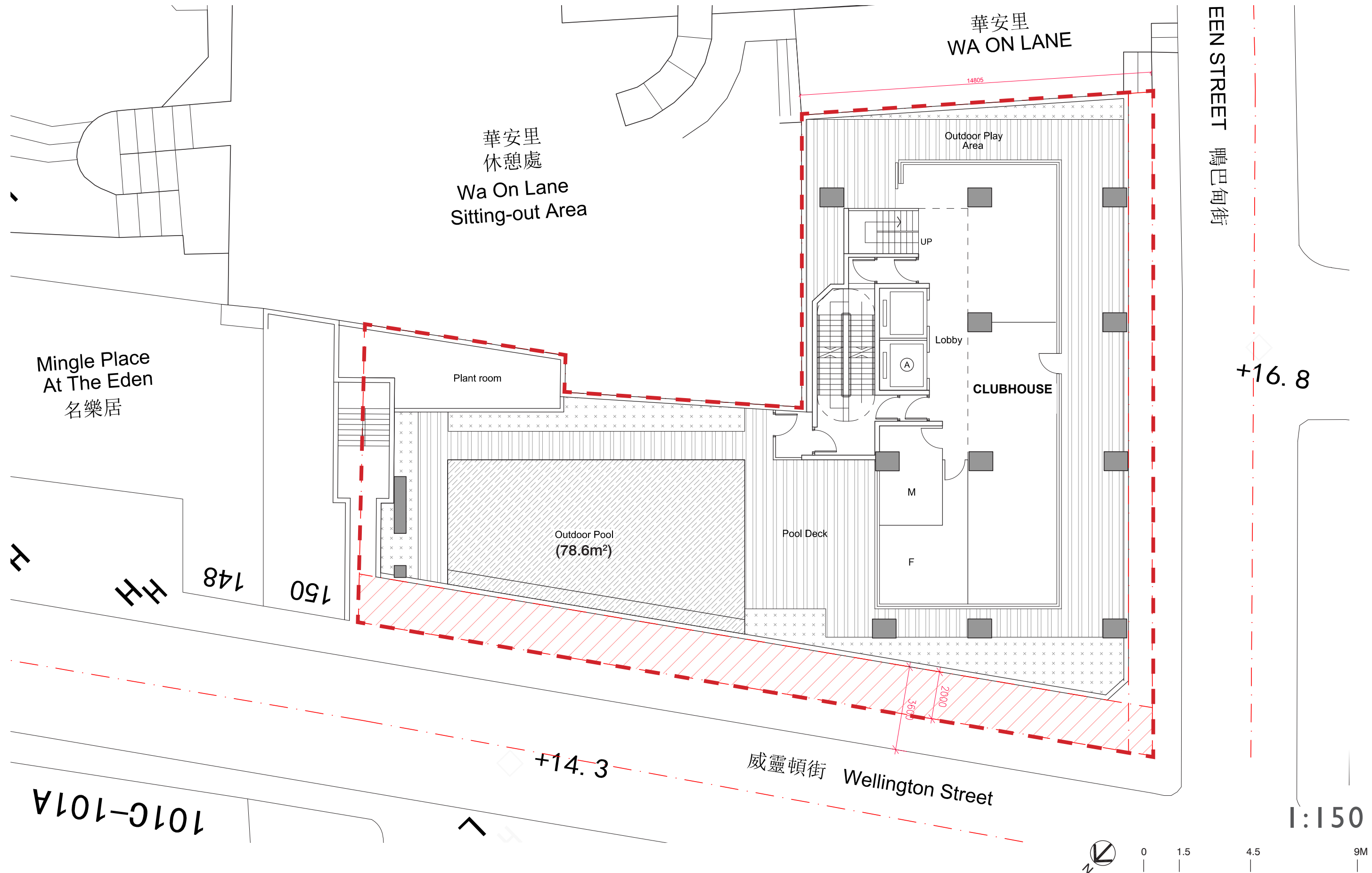
PODIUM PLANS

IF



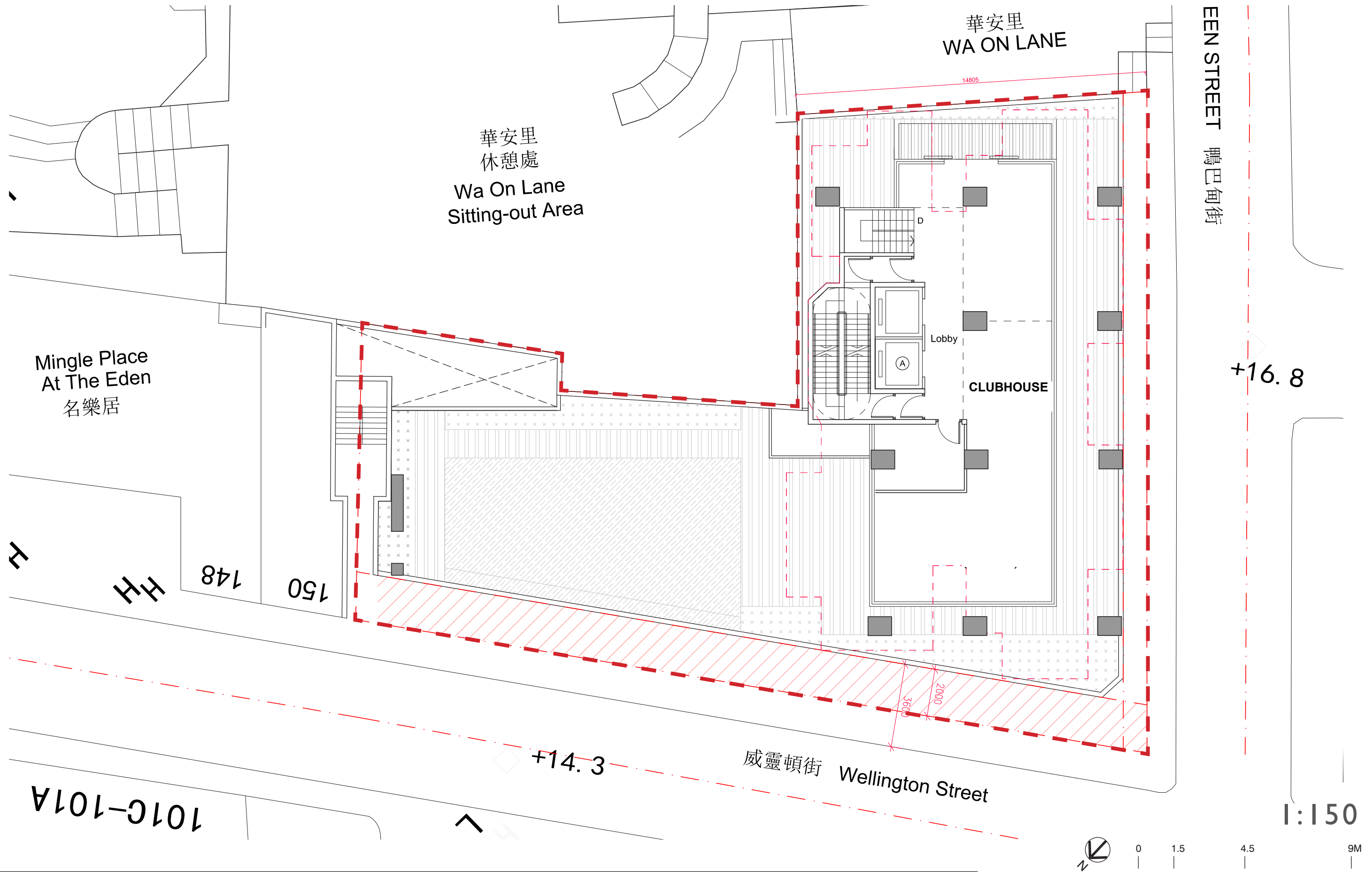
PODIUM PLANS

2F (CLUBHOUSE)



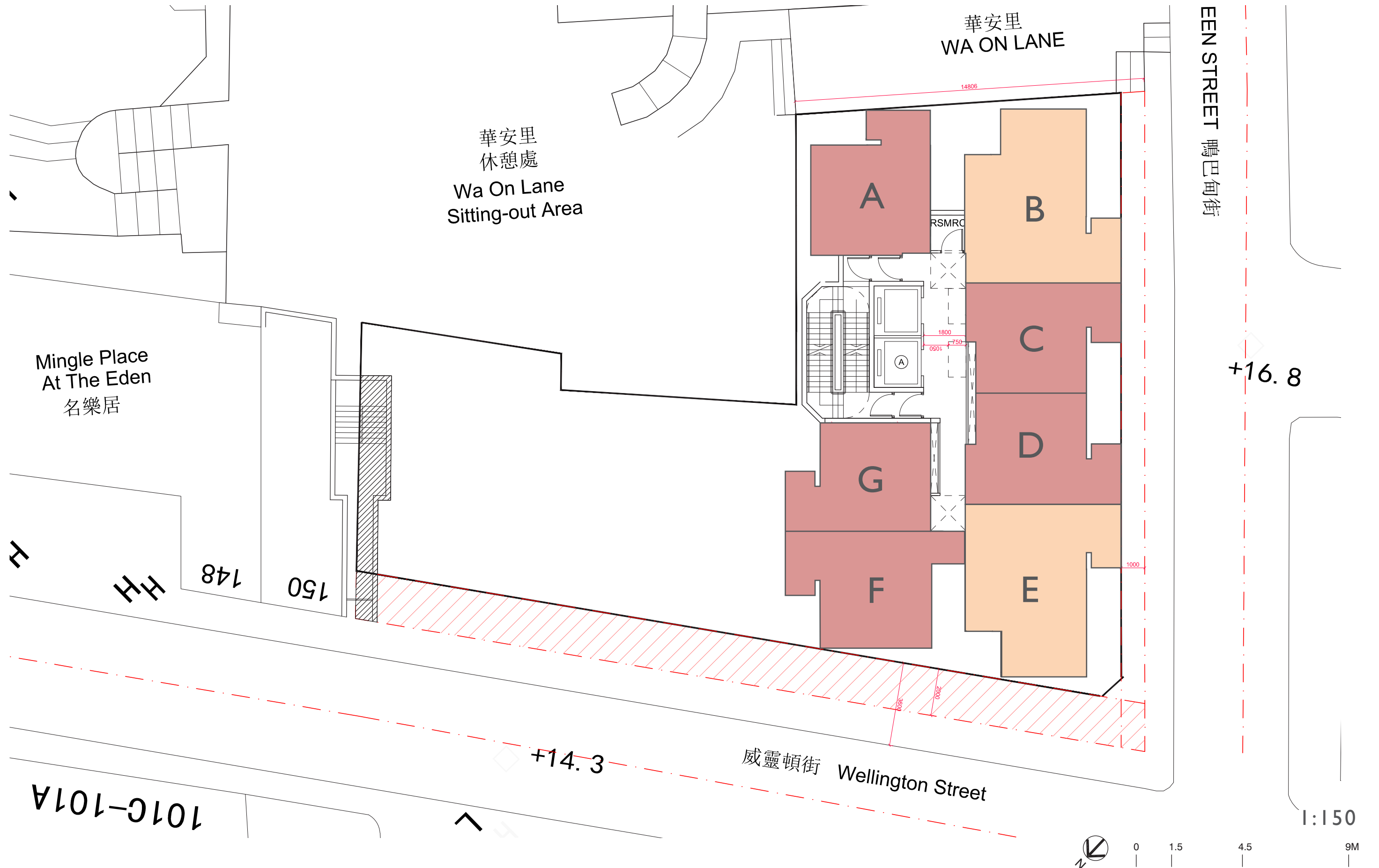
PODIUM PLANS

3F (CLUBHOUSE)



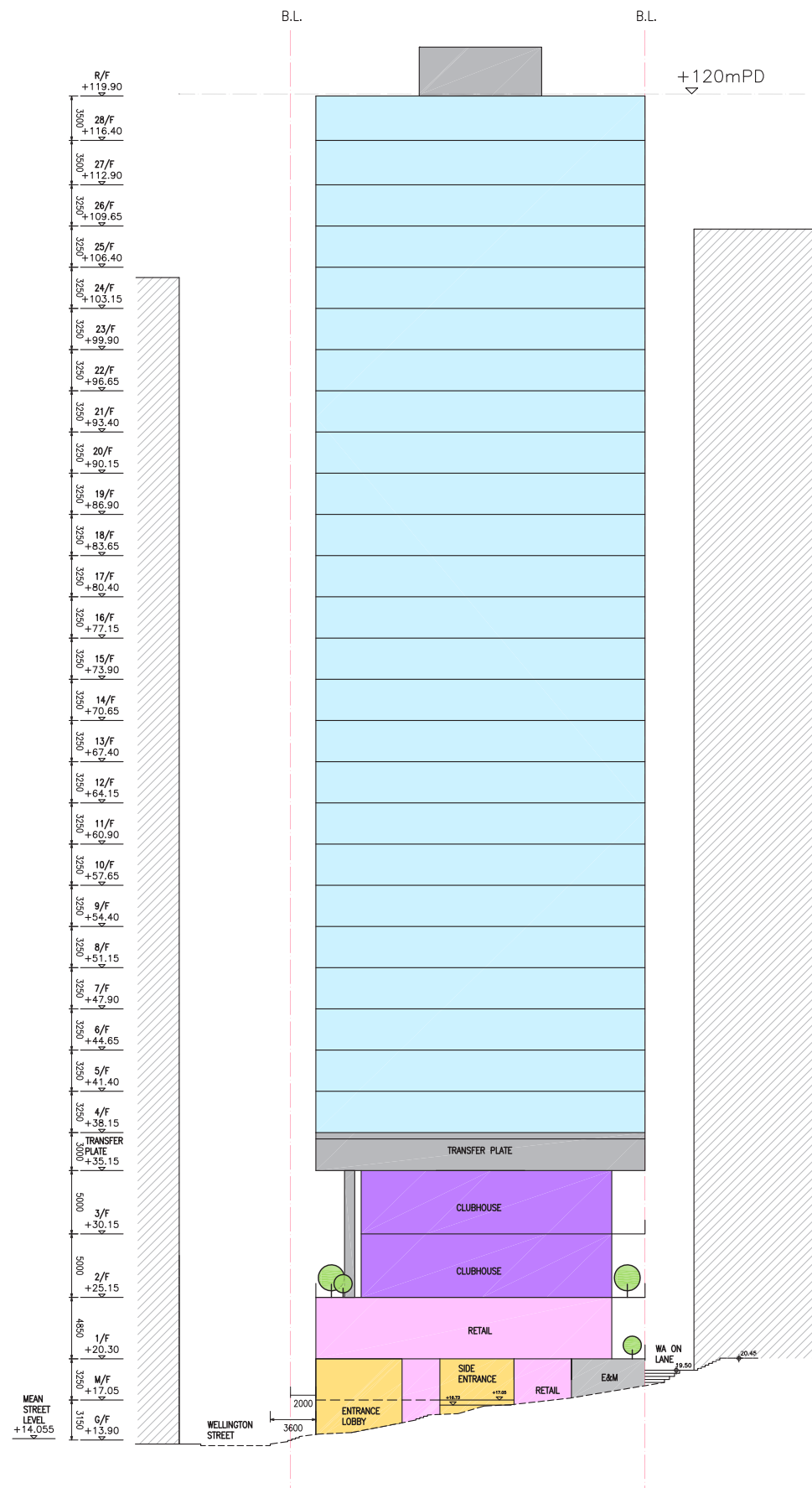
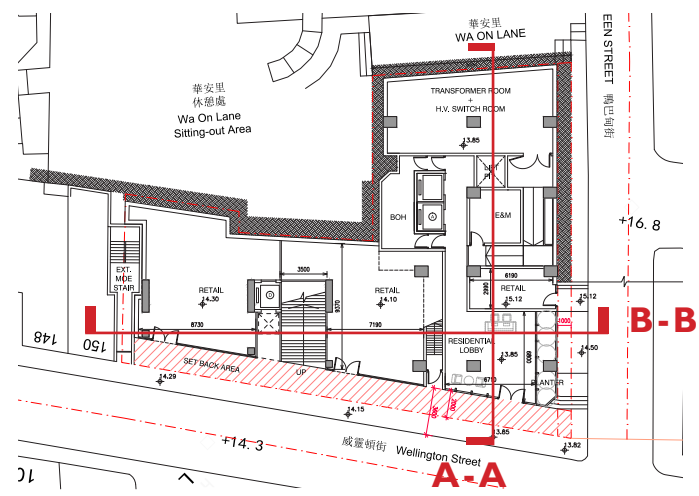
TOWER SIMPLIFIED PLAN

- 1 Bedroom (Open Kitchen)
- 2 Bedroom (Open Kitchen)

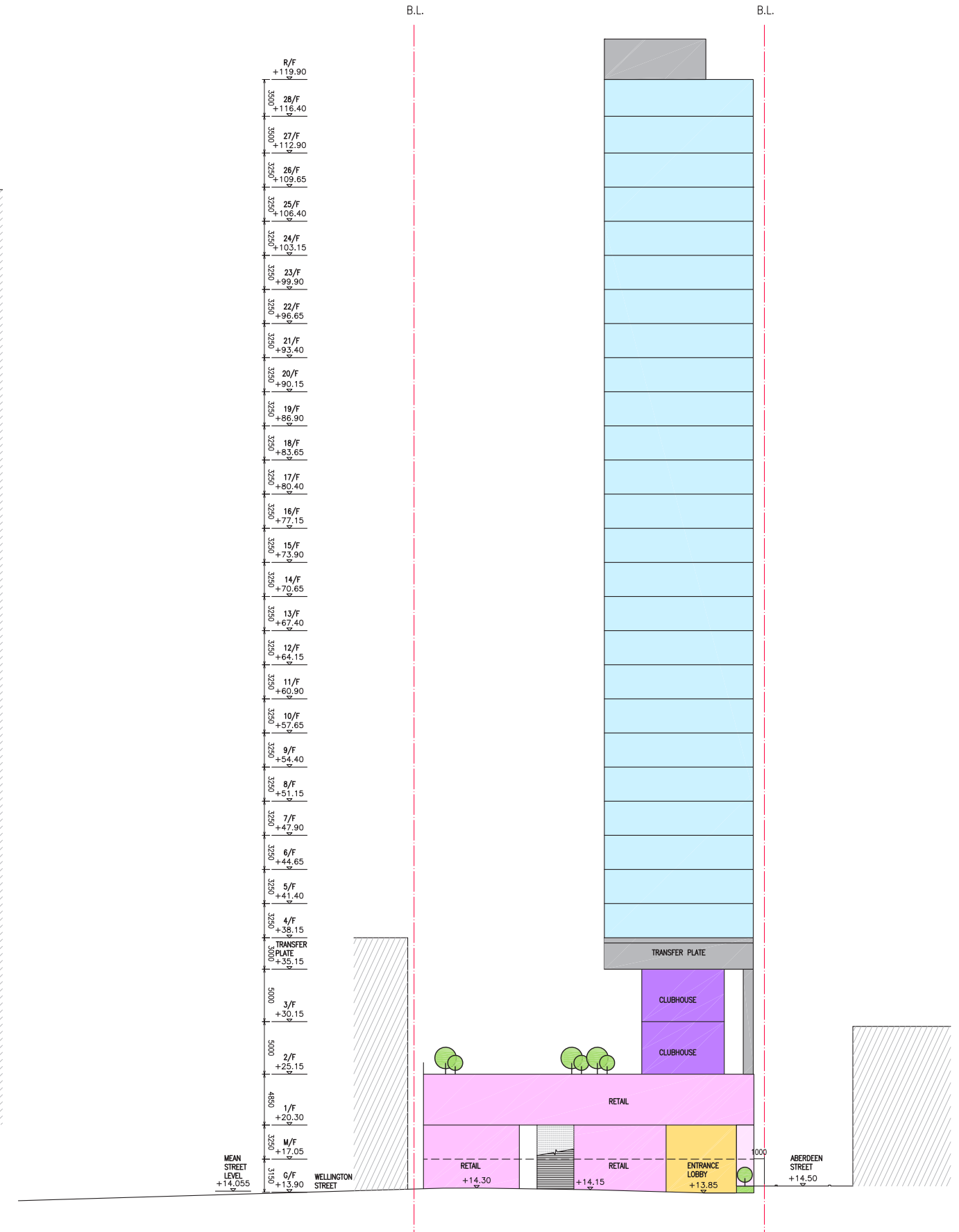


SECTION

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SECTION A-A



SECTION B-B

Appendix 2.1 Detailed Sewerage Impact Assessment Calculation

Table 1 Calculation for Sewage Generation Rate of the Proposed Development at the Application Site

1. Residential Tower

Total number of residential units	=	175 units
Total number of residents	=	403 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District) ⁽¹⁾
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	108.7 m³/day

2. Clubhouse

2a. Assumed Area	=	278 m ²
2b. Assumed floor area per employee	=	30.3 m ² per worker -- (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
2c. Total number of employees	=	9 employees
2d. Design flow for commercial activities	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J11)
2e. Sewage Generation rate	=	2.6 m³/day

3. Commercial Area (F&B)

F&B

Assumed Area	=	826 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	42 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	66.6 m³/day

Swimming Pool

Assumed Area of Swimming Pool	=	78.6 m ²
Average Depth of Water	=	1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	=	98.3 m ³
Turnover Rate	=	6 hr
Required Surface Loading Rate of Filter	=	16 m ³ /m ² /hr
Filter Areas required	=	1.0 m ²
Adopted Surface Loading Rate of Filter	=	50 m ³ /m ² /hr
Adopted Filter Area	=	0.3 m ²
Backwash Duration	=	7 min/d
Backwash flow rate	=	50 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	=	1.9 m ³ /day
Design flow for Swimming Pool Backwashing	=	4.55 litre/sec

Total Flow from Proposed Development

Flow Rate (without Catchment Inflow Factor)	=	177.8 m³/day
Catchment Inflow Factor	=	1.0 Catchment Inflow Factor for Central in Table T-4 of GEFS
Flow Rate (with Catchment Inflow Factor)	=	177.8 m³/day
Contributing Population	=	659 people
Peaking factor	=	8 Refer to Table T-5 of GESF for population < 1,000 incl. stormwater allowance
Peak Flow	=	16.5 litre/sec
Peak Flow (with backwash from Swimming Pool)	=	21.0 litre/sec

Note:
 1. It is clarified that while the average household size of 2.3 ppl per flat is indicated in "Population Census 2021 - District Council Constituency Area of Chung Wan", this area includes some part of mid-levels with larger flat size and in turn more population. Therefore, it is considered that making reference to the average household side of 2.1 ppl per flat in in "Population Census 2021 – Tertiary Planning Units - 114 " which covers the Application Site but exclude those mid-level areas is more representative

Table 2a Hydraulic Capacity of Existing Sewers at 152 -164 Wellington Street, Central

Segment	Manhole Reference	Manhole Reference	Pipe Dia.	Pipe Length	Invert Level 1	Invert Level 2	g	k _s	s	v	V	Area	Q	Estimated Capacity
			mm	m	mPD	mPD	m/s ²	m		m ² /s	m/s	m ²	m ³ /s	L/s
S1-S2	FMH7030011	FMH7029798	400	8.0	10.71	10.66	9.81	0.00060	0.006	0.000001	1.49	0.13	0.19	187
S2-S3	FMH7029798	FMH7029849	400	19.7	10.18	6.84	9.81	0.00060	0.170	0.000001	7.81	0.13	0.98	982
S3-S4	FMH7029849	FMH7030086	400	1.2	6.47	6.20	9.81	0.00060	0.229	0.000001	9.08	0.13	1.14	1141
S4-S5	FMH7030086	FMH7029850	400	2.7	6.12	6.00	9.81	0.00060	0.044	0.000001	3.99	0.13	0.50	502
S5-S6	FMH7029850	FMH7029993	600	10.0	5.88	5.84	9.81	0.00060	0.004	0.000001	1.53	0.28	0.43	434

Table 2b Hydraulic Capacity of Proposed Sewers at 152 -164 Wellington Street, Central

Segment	Manhole Reference	Manhole Reference	Pipe Dia.	Pipe Length	Invert Level 1	Invert Level 2	g	k _s	s	v	V	Area	Q	Estimated Capacity
			mm	m	mPD	mPD	m/s ²	m		m ² /s	m/s	m ²	m ³ /s	L/s
T1-S1	-	FMH7030011	200	5.5	10.80	10.71	9.81	0.00030	0.016	0.000001	1.70	0.03	0.05	53

- Remarks: (1) g=gravitational acceleration; k_s=equivalent sand roughness; s=gradient; v=kinematic viscosity of water; V=mean velocity
(2) Table 2a: The value of k_s = 0.6mm is used for the calculation of slimed clayware sewer, poor condition (based on Table 5: Recommended roughness values in Sewerage Manual)
(3) Table 2c: The value of k_s = 0.3mm is used for the calculation of slimed polyethylene for the proposed sewers, poor condition (based on Table 5: Recommended roughness values in Sewerage Manual)
(4) The value of velocity (V) is referred to the Tables for the hydraulic design of pipes, sewers and channels (8th edition)
(5) Equation used:
$$V = -\sqrt{(8gDs)} \log\left(\frac{k_s}{3.7D} + \frac{2.51v}{D\sqrt{(2gDs)}}\right)$$

Table 3a Calculation for Sewage Generation Rate of the Existing Surrounding Building

Catchment A

On Building

Assumed Area	=	5942 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	=	327 employees
Design flow for commercial employee	=	0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	=	26.1 m³/day

Overall Catchment A

Flow Rate (without Catchment Inflow Factor)	=	26.1 m ³ /day
Catchment Inflow Factor	=	1.0 Catchment Inflow Factor for Central in Table T-4 of GEFS
Flow Rate (with Catchment Inflow Factor)	=	26.1 m³/day

Catchment B

1. Lam's Building

Total number of units	=	46 units
Total number of residents	=	106 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	28.6 m ³ /day

F&B

Assumed Area	=	229 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	12 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	18.5 m ³ /day
Sewage Generation rate (15.4%)	=	2.8 m ³ /day

2. 2-4 Kau U Fong

Total number of units	=	10 units
Total number of residents	=	23 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	6.2 m ³ /day

F&B

Assumed Area	=	67 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	3 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	5.4 m ³ /day
Sewage Generation rate (15.4%)	=	0.8 m ³ /day

3. 12-14 Kau U Fong

Total number of units	=	10 units
Total number of residents	=	23 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	6.2 m ³ /day

F&B

Assumed Area	=	112 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	6 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	9.1 m ³ /day
Sewage Generation rate (15.4%)	=	1.4 m ³ /day

4. 16-18 Kau U Fong

Total number of units	=	15 units
Total number of residents	=	35 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	9.3 m ³ /day

F&B

Assumed Area	=	121 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	6 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	9.8 m ³ /day
Sewage Generation rate (15.4%)	=	1.5 m ³ /day

5. Central District Health Centre

Assumed Area	=	827 m ²
Assumed floor area per employee	=	30.3 m ² per employee -- (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	=	27 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J11 Community, Social & Personal Services)
Sewage Generation rate	=	7.6 m ³ /day

6. Public Toilet inside Kau U Fong Children's Playground

3a. Discharge Unit (DU) from WC (Qty * DU)	=	16.2 L/s
3b. Discharge Unit (DU) from Single Urinal with Cistern (Qty * DU)	=	1.6 L/s
3c. Discharge Unit (DU) from Basin (Qty * DU)	=	2.7 L/s
3d. Sum of DUs	=	20.5 L/s
3e. Wastewater Flow Rate ($K \sum DU$)	=	4.53 L/s

Remarks

1. Calculation of Wastewater Flow Rate is followed Plumbing Engineering Services Design Guide (PESDG).
2. Discharge Unit (DU) of WC = 1.8 L/s; DU of Basin = 0.3 L/s; DU of Single Urinal with Cistern = 0.4L/s, extracted from Table 5 of PESDG.
3. Assumed total number of WC = 9; total number of Single Urinal with Cistern = 4; Total number of Basin = 9.
4. Frequency of use, K = 1, extracted from Table 6 of PESDG.

7. Tung Tze Terrace

Total number of units	=	77 units
Total number of residents	=	177 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	47.8 m ³ /day

Clubhouse

Assumed Area	=	133 m ²
Assumed floor area per employee	=	30.3 m ² per worker -- (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	=	4 employees
Design flow for commercial activities	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J11)
Sewage Generation rate	=	1.2 m ³ /day

8. Lan Kwai Fong Hotel

Number of hotel rooms	=	167 rooms
Assumed number of employees	=	50 employees -- (assume 3 workers per 10 rooms)
Design Flow	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF J10 - Restaurants & Hotels)
Sewage Generation Rate	=	79.2 m ³ /day

9. 13 Aberdeen Street (25.7%)¹⁺¹⁺¹	
Total number of units	= 25 units
Total number of residents	= 58 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 15.5 m ³ /day
Sewage Generation rate (25.7%)	= 4.0 m ³ /day
F&B	
Assumed Area	= 49 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.9 m ³ /day
Sewage Generation rate (25.7%)	= 1.0 m ³ /day
10. 14-16 Aberdeen Street (25.7%)¹⁺¹⁺¹	
Total number of units	= 15 units
Total number of residents	= 35 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.3 m ³ /day
Sewage Generation rate (25.7%)	= 2.4 m ³ /day
F&B	
Assumed Area	= 47 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.8 m ³ /day
Sewage Generation rate (25.7%)	= 1.0 m ³ /day
11. 17-19 Aberdeen Street (25.7%)¹⁺¹⁺¹	
Total number of units	= 15 units
Total number of residents	= 35 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.3 m ³ /day
Sewage Generation rate (25.7%)	= 2.4 m ³ /day
F&B	
Assumed Area	= 48 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.8 m ³ /day
Sewage Generation rate (25.7%)	= 1.0 m ³ /day
Retail	
Assumed Area	= 48 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (25.7%)	= 0.1 m ³ /day
12. 21 Aberdeen Street (25.7%)¹⁺¹⁺¹	
Total number of units	= 5 units
Total number of residents	= 12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (25.7%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 52 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (25.7%)	= 0.1 m ³ /day
13. 23 Aberdeen Street (25.7%)¹⁺¹⁺¹	
Total number of units	= 5 units
Total number of residents	= 12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (25.7%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 50 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (25.7%)	= 0.1 m ³ /day
14. 25 Aberdeen Street (25.7%)¹⁺¹⁺¹	
Total number of units	= 5 units
Total number of residents	= 12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (25.7%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 50 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (25.7%)	= 0.1 m ³ /day

15. 27 Aberdeen Street (25.7%)^{15.16.1}

Total number of units	=	5 units
Total number of residents	=	12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	3.1 m ³ /day
Sewage Generation rate (25.7%)	=	0.8 m ³ /day

Retail

Assumed Area	=	51 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	2 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.5 m ³ /day
Sewage Generation rate (25.7%)	=	0.1 m ³ /day

16. 29 Aberdeen Street (25.7%)^{15.16.2}

Total number of units	=	5 units
Total number of residents	=	12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	3.1 m ³ /day
Sewage Generation rate (25.7%)	=	0.8 m ³ /day

F&B

Assumed Area	=	49 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	3 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	4.0 m ³ /day
Sewage Generation rate (15.4%)	=	0.6 m ³ /day
Sewage Generation rate (25.7%)	=	0.2 m ³ /day

17. 31 Aberdeen Street (25.7%)^{15.16.3}

Total number of units	=	5 units
Total number of residents	=	12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	3.1 m ³ /day
Sewage Generation rate (25.7%)	=	0.8 m ³ /day

F&B

Assumed Area	=	49 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	3 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	4.0 m ³ /day
Sewage Generation rate (15.4%)	=	0.6 m ³ /day
Sewage Generation rate (25.7%)	=	0.2 m ³ /day

18. 83-85 Hollywood Road (25.7%)^{15.16.4}

Total number of units	=	15 units
Total number of residents	=	35 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	9.3 m ³ /day
Sewage Generation rate (25.7%)	=	2.4 m ³ /day

Retail

Assumed Area	=	119 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	4 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	1.2 m ³ /day
Sewage Generation rate (25.7%)	=	0.3 m ³ /day

19. 14-16 Aberdeen Street (25.7%)^{15.16.5}

Total number of units	=	15 units
Total number of residents	=	35 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	9.3 m ³ /day
Sewage Generation rate (25.7%)	=	2.4 m ³ /day

F&B

Assumed Area	=	71 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	4 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	5.7 m ³ /day
Sewage Generation rate (15.4%)	=	0.9 m ³ /day
Sewage Generation rate (25.7%)	=	0.2 m ³ /day

Retail

Assumed Area	=	71 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	2 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.7 m ³ /day
Sewage Generation rate (25.7%)	=	0.2 m ³ /day

20. 16A Aberdeen Street (25.7%)^{15.16.6}

Total number of units	=	5 units
Total number of residents	=	12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	3.1 m ³ /day
Sewage Generation rate (25.7%)	=	0.8 m ³ /day

F&B

Assumed Area	=	51 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	3 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	4.1 m ³ /day
Sewage Generation rate (15.4%)	=	0.6 m ³ /day
Sewage Generation rate (25.7%)	=	0.2 m ³ /day

21. 18-18A Aberdeen Street (25.7%)⁽¹⁾⁽²⁾⁽³⁾

Total number of units	=	10 units
Total number of residents	=	23 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	6.2 m ³ /day
Sewage Generation rate (25.7%)	=	1.6 m ³ /day

Retail

Assumed Area	=	45 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	2 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.4 m ³ /day
Sewage Generation rate (25.7%)	=	0.1 m ³ /day

22. 18C Aberdeen Street (25.7%)⁽¹⁾⁽²⁾⁽³⁾

Total number of units	=	5 units
Total number of residents	=	12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	3.1 m ³ /day
Sewage Generation rate (25.7%)	=	0.8 m ³ /day

Retail

Assumed Area	=	47 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	2 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.5 m ³ /day
Sewage Generation rate (25.7%)	=	0.1 m ³ /day

23. 77-81 Hollywood Road (25.7%)⁽¹⁾⁽²⁾⁽³⁾

Total number of units	=	20 units
Total number of residents	=	46 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	12.4 m ³ /day
Sewage Generation rate (25.7%)	=	3.2 m ³ /day

F&B

Assumed Area	=	93 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	5 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	7.5 m ³ /day
Sewage Generation rate (15.4%)	=	1.2 m ³ /day
Sewage Generation rate (25.7%)	=	0.3 m ³ /day

Retail

Assumed Area	=	93 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	3 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.9 m ³ /day
Sewage Generation rate (25.7%)	=	0.2 m ³ /day

23. 75A Hollywood Road (25.7%)⁽¹⁾⁽²⁾⁽³⁾

Total number of units	=	5 units
Total number of residents	=	12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	3.1 m ³ /day
Sewage Generation rate (25.7%)	=	0.8 m ³ /day

Retail

Assumed Area	=	45 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	2 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.4 m ³ /day
Sewage Generation rate (25.7%)	=	0.1 m ³ /day

24. 75 Hollywood Road (25.7%)⁽¹⁾⁽²⁾⁽³⁾

Total number of units	=	5 units
Total number of residents	=	12 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	3.1 m ³ /day
Sewage Generation rate (25.7%)	=	0.8 m ³ /day

Retail

Assumed Area	=	38 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	1 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.4 m ³ /day
Sewage Generation rate (25.7%)	=	0.1 m ³ /day

Overall Catchment B

Flow Rate (without Catchment Inflow Factor)	=	224.8 m ³ /day
Catchment Inflow Factor	=	1.0 Catchment Inflow Factor for Central in Table T-4 of GEFS
Flow Rate (with Catchment Inflow Factor)	=	224.8 m ³ /day
Flow Rate (with Catchment Inflow Factor) (64%) ⁽⁵⁾	=	143.9 m ³ /day

Note:

(1) It is observed that the existing sewerage pipes after Manhole number: FMH7029772 are separated into 2 flows (i.e. Pipe number: FWD7033854 (225mm) and Pipe number: FWD7033839 (300mm)). As such, discharge from upstream Catchment B is therefore assumed to be split into 42.9% generated sewage at each direction.

(2) It is observed that the existing sewerage pipes after Manhole number: FMH7029616 are separated into 2 flows (i.e. Pipe number: FWD7033249 (225mm) and Pipe number: FWD7033250 (150mm)). As such, discharge from upstream Catchment B is therefore assumed to be split into 60.0% generated sewage at each direction.

(3) It is observed that the existing sewerage pipes after Manhole number: FMH7029798 are separated into 2 flows (i.e. Pipe number: FWD7033443 (400mm) and Pipe number: FWD7033861 (225mm)). As such, discharge from upstream Catchment B is therefore assumed to be split into 64.0% generated sewage at each direction.

Catchment C (FWD7033728) (upstream)

a. Assumed Pipe Capacity	=	100 %
b. Pipe Diameter	=	400 mm
c. Pipe Length	=	8.51 m
d. Invert Level 1	=	10.87 mPD
e. Invert Level 2	=	10.82 mPD
f. Invert Level Difference	=	0.05 m
g. Gravitational Acceleration	=	9.81 ms ⁻²
h. Equivalent Sand Roughness	=	0.0006 m
i. Gradient	=	0.0059
j. Kinematic Viscosity of Water	=	0.000001 m ² /s
k. Mean Velocity	=	1.44 m/s
l. Cross Sectional Area of the Pipe	=	0.13 m ²
m. Velocity of the Concerned Pipe	=	0.18 m ³ /s
n. Estimated Capacity	=	181.4 litre/sec

Catchment D1	
1. 152 Queen's Road Central	
Assumed Area	= 4835 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	= 266 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 21.3 m ³ /day
Retail	
Assumed Area	= 879 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 31 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 8.6 m ³ /day
F&B	
Assumed Area	= 440 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 22 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 35.4 m ³ /day
2. Stag Building	
Assumed Area	= 1018 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	= 56 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 4.5 m ³ /day
Retail	
Assumed Area	= 93 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.9 m ³ /day
3. Kinley Commercial Building	
Assumed Area	= 2928 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	= 161 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 12.9 m ³ /day
Retail	
Assumed Area	= 209 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 7 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.0 m ³ /day
4. V. Heun Building	
Assumed Area	= 5439 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	= 299 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 23.9 m ³ /day
5. 1-9 Graham Street	
Total number of units	= 20 units
Total number of residents	= 46 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 12.4 m ³ /day
F&B	
Assumed Area	= 29 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 1 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 2.3 m ³ /day
Retail	
Assumed Area	= 29 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 1 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.3 m ³ /day
6. Waga Commercial Centre	
Assumed Area	= 3291 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	= 181 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 14.5 m ³ /day
F&B	
Assumed Area	= 82 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.6 m ³ /day
Retail	
Assumed Area	= 82 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.8 m ³ /day
7. YIN Serviced Apartments	
Numer of hotel rooms	= 45 rooms
Assumed number of employees	= 14 employees -- (assume 3 workers per 10 rooms)
Design Flow	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF J10 - Restaurants & Hotels)
Sewage Generation Rate	= 21.3 m ³ /day
F&B	
Assumed Area	= 180 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 9 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 14.5 m ³ /day
8. Virtus Medical Tower	
Assumed Area	= 2685 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	= 148 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 11.8 m ³ /day
Retail	
Assumed Area	= 575 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 20 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 5.6 m ³ /day
9. Luen Shing Building	
Assumed Area	= 1440 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	= 79 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 6.3 m ³ /day

10. Wings Building	
Assumed Area	= 5045 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	= 277 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 22.2 m ³ /day
Retail	
Assumed Area	= 505 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 18 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 4.9 m ³ /day
11. 9-11 Cochrane Street (Retail)	
Assumed Area	= 268 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 9 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.6 m ³ /day
Retail	
Assumed Area	= 57 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.6 m ³ /day
12. Welley Building	
Total number of units	= 48 units
Total number of residents	= 110 people – (2021 Population Census; Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 29.8 m ³ /day
F&B	
Assumed Area	= 268 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 14 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 21.6 m ³ /day
13. 82 Stanley Street	
Assumed Area	= 158 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	= 9 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 0.7 m ³ /day
F&B	
Assumed Area	= 268 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 14 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 21.6 m ³ /day
14. 80 Stanley Street	
Assumed Area	= 130 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	= 7 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 0.6 m ³ /day
Retail	
Assumed Area	= 32 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 1 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.3 m ³ /day
15. Won Hing Building	
Assumed Area	= 2387 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	= 131 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 10.5 m ³ /day
F&B	
Assumed Area	= 109 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.7 m ³ /day
16. Cochrane Commercial House	
Assumed Area	= 1761 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	= 97 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 7.7 m ³ /day
F&B	
Assumed Area	= 75 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.1 m ³ /day
17. Kwong Yuen Building	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census; Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Retail	
Assumed Area	= 38 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 1 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.4 m ³ /day
18. 93 Wellington Street	
Total number of units	= 4 units – (https://hk.cenatnet.com/estate/en/list/2_SEDKBPYXPE)
Total number of residents	= 9 people – (2021 Population Census; Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Retail	
Assumed Area	= 38 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 1 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.4 m ³ /day
19. 91 Wellington Street	
Total number of units	= 3 units
Total number of residents	= 7 people – (2021 Population Census; Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 1.9 m ³ /day
F&B	
Assumed Area	= 38 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.1 m ³ /day

20. 83 Wellington Street	
Assumed Area	= 269 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 9 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.6 m ³ /day
Retail	
Assumed Area	= 85 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.8 m ³ /day
F&B	
Assumed Area	= 85 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.8 m ³ /day
21. 100 Queen's Road Central	
Assumed Area	= 12021 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	= 661 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 52.9 m ³ /day
Retail	
Assumed Area	= 751 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 26 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 7.4 m ³ /day
F&B	
Assumed Area	= 751 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 38 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 60.5 m ³ /day
22. Regent Centre	
Assumed Area	= 5295 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	= 291 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 23.3 m ³ /day
F&B	
Assumed Area	= 279 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 14 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 22.5 m ³ /day
Retail	
Assumed Area	= 1394 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 49 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 13.7 m ³ /day
23. H Queen's	
Assumed Area	= 8551 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	= 470 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 37.6 m ³ /day
24. 8 COCHRANE STREET	
Assumed Area	= 277 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	= 15 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 1.2 m ³ /day
Retail	
Assumed Area	= 55 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
25. Kai Tak Commercial Building	
Assumed Area	= 2319 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	= 128 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 10.2 m ³ /day
Retail	
Assumed Area	= 193 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 7 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.9 m ³ /day
F&B	
Assumed Area	= 193 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 10 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 15.6 m ³ /day
26. Pearl Oriental House	
Assumed Area	= 3250 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	= 179 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 14.3 m ³ /day
Retail	
Assumed Area	= 464 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 16 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 4.5 m ³ /day

27. World Trust Tower	
Assumed Area	= 4691 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	= 258 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 20.6 m³/day
Retail	
Assumed Area	= 213 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 7 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.1 m³/day
F&B	
Assumed Area	= 213 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 11 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 17.2 m³/day
28. Winning House	
Assumed Area	= 966 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	= 53 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 4.3 m³/day
Retail	
Assumed Area	= 197 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 7 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.9 m³/day
F&B	
Assumed Area	= 197 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 10 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 15.8 m³/day
Total Flow from Catchment D1	
Flow Rate (without Catchment Inflow Factor)	= 685.0 m ³ /day
Catchment Inflow Factor	= 1.0 Catchment Inflow Factor for Central in Table T-4 of GEFS
Flow Rate (with Catchment Inflow Factor)	= 685.0 m³/day

Note:

(1) It is observed that the existing sewerage pipes after Manhole number: FMH17029923 are separated into 2 flows (i.e. Pipe number: FWD7033498 (600mm) and Pipe number: FWD7033806 (225mm)). As such, discharge from Catchment D1 is therefore assumed to be split into 72.7% generated sewage at each direction.

Catchment D2	
1. 18 Cochrane Street (72.7%)⁽¹⁾	
Assumed Area	= 303 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	= 17 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 1.3 m ³ /day
Sewage Generation rate (72.7%)	= 1.0 m ³ /day
2. 75-77 Wellington Street (72.7%)⁽¹⁾	
Total number of units	= 7 units
Total number of residents	= 16 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 4.3 m ³ /day
Sewage Generation rate (72.7%)	= 3.2 m ³ /day
F&B	
Assumed Area	= 120 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 9.7 m ³ /day
3. 71-73 Wellington Street (72.7%)⁽¹⁾	
Total number of units	= 6 units
Total number of residents	= 14 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.7 m ³ /day
Sewage Generation rate (72.7%)	= 2.7 m ³ /day
Retail	
Assumed Area	= 87 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.9 m ³ /day
Sewage Generation rate (72.7%)	= 0.6 m ³ /day
4. Fortuna Building (72.7%)⁽¹⁾	
Total number of units	= 16 units
Total number of residents	= 37 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.9 m ³ /day
Sewage Generation rate (72.7%)	= 7.2 m ³ /day
Retail	
Assumed Area	= 80 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.8 m ³ /day
Sewage Generation rate (72.7%)	= 0.6 m ³ /day
F&B	
Assumed Area	= 80 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.4 m ³ /day
5. 59-61 Wellington Street (72.7%)⁽¹⁾	
Total number of units	= 10 units -- (https://www.okay.com/en/building/59-61-wellington-street/5924)
Total number of residents	= 23 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.2 m ³ /day
Sewage Generation rate (72.7%)	= 4.5 m ³ /day
F&B	
Assumed Area	= 90 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 7.2 m ³ /day
Sewage Generation rate (72.7%)	= 5.3 m ³ /day
6. 57 Wellington Street (72.7%)⁽¹⁾	
Assumed Area	= 266 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 9 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.6 m ³ /day
Sewage Generation rate (72.7%)	= 1.9 m ³ /day
Retail	
Assumed Area	= 45 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.4 m ³ /day
Sewage Generation rate (72.7%)	= 0.3 m ³ /day
7. 55 Wellington Street (72.7%)⁽¹⁾	
Total number of units	= 3 units -- (https://hk.centanet.com/estate/en/55-Wellington-Street/2-OUOQRFXRU)
Total number of residents	= 7 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 1.9 m ³ /day
Sewage Generation rate (72.7%)	= 1.4 m ³ /day
F&B	
Assumed Area	= 45 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.6 m ³ /day
Sewage Generation rate (72.7%)	= 2.6 m ³ /day
8. 53 Wellington Street (72.7%)⁽¹⁾	
Total number of units	= 3 units -- (https://hk.centanet.com/estate/en/53-Wellington-Street/2-OURRQFRFRU)
Total number of residents	= 7 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 1.9 m ³ /day
Sewage Generation rate (72.7%)	= 1.4 m ³ /day
F&B	
Assumed Area	= 45 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.6 m ³ /day
Sewage Generation rate (72.7%)	= 2.6 m ³ /day

9. 51 Wellington Street (72.7%)⁽¹⁾	
Total number of units	= 4 units – (https://hk.cenatnet.com/estate/en/51-Wellington-Street/2-OUFURFRRU)
Total number of residents	= 9 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Sewage Generation rate (72.7%)	= 1.8 m ³ /day
F&B	
Assumed Area	= 45 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.6 m ³ /day
Sewage Generation rate (72.7%)	= 2.6 m ³ /day
10. Jade Centre (72.7%)⁽¹⁾	
Assumed Area	= 1296 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	= 71 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 5.7 m ³ /day
Sewage Generation rate (72.7%)	= 4.1 m ³ /day
Retail	
Assumed Area	= 273 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 10 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.7 m ³ /day
Sewage Generation rate (72.7%)	= 1.9 m ³ /day
F&B	
Assumed Area	= 273 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 14 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 22.0 m ³ /day
Sewage Generation rate (72.7%)	= 16.0 m ³ /day
11. DL Tower (92, 94 & 96 Wellington Street) (72.7%)⁽¹⁾	
Assumed Area	= 3196 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	= 176 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 14.1 m ³ /day
Sewage Generation rate (72.7%)	= 10.2 m ³ /day
12. Tung Chai Building (72.7%)⁽¹⁾	
Assumed Area	= 1605 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	= 88 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 7.1 m ³ /day
Sewage Generation rate (72.7%)	= 5.1 m ³ /day
Retail	
Assumed Area	= 134 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 5 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.3 m ³ /day
Sewage Generation rate (72.7%)	= 1.0 m ³ /day
F&B	
Assumed Area	= 172 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 9 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 13.9 m ³ /day
Sewage Generation rate (72.7%)	= 10.1 m ³ /day
13. 1 Lyndhurst Tower (72.7%)⁽¹⁾	
Assumed Area	= 7144 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	= 393 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 31.4 m ³ /day
Sewage Generation rate (72.7%)	= 22.9 m ³ /day
14. 26 Cochrane Street (72.7%)⁽¹⁾	
Total number of units	= 4 units
Total number of residents	= 9 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Sewage Generation rate (72.7%)	= 1.8 m ³ /day
15. 28 Cochrane Street (72.7%)⁽¹⁾	
Total number of units	= 4 units
Total number of residents	= 9 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Sewage Generation rate (72.7%)	= 1.8 m ³ /day
16. Merlin Building (72.7%)⁽¹⁾	
Total number of units	= 16 units
Total number of residents	= 37 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.9 m ³ /day
Sewage Generation rate (72.7%)	= 7.2 m ³ /day
F&B	
Assumed Area	= 187 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 10 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 15.0 m ³ /day
Sewage Generation rate (72.7%)	= 10.9 m ³ /day

17. 36 Cochrane Street (72.7%)⁽¹⁾	
Total number of units	= 3 units
Total number of residents	= 7 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 1.9 m ³ /day
Sewage Generation rate (72.7%)	= 1.4 m ³ /day
F&B	
Assumed Area	= 59 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 4.8 m ³ /day
Sewage Generation rate (72.7%)	= 3.5 m ³ /day
18. 38 Cochrane Street (72.7%)⁽¹⁾	
Total number of units	= 4 units
Total number of residents	= 9 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Sewage Generation rate (72.7%)	= 1.8 m ³ /day
Retail	
Assumed Area	= 59 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.6 m ³ /day
Sewage Generation rate (72.7%)	= 0.4 m ³ /day
19. Cheung Hing Commercial Building (72.7%)⁽¹⁾	
Assumed Area	= 803 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	= 44 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 3.5 m ³ /day
Sewage Generation rate (72.7%)	= 2.6 m ³ /day
Retail	
Assumed Area	= 62 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.6 m ³ /day
Sewage Generation rate (72.7%)	= 0.4 m ³ /day
F&B	
Assumed Area	= 62 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 5.0 m ³ /day
Sewage Generation rate (72.7%)	= 3.6 m ³ /day
Total Flow from Catchment D2	
Flow Rate (without Catchment Inflow Factor)	= 173.1 m ³ /day
Catchment Inflow Factor	= 1.0 Catchment Inflow Factor for Central in Table T-4 of GEFS
Flow Rate (with Catchment Inflow Factor)	= 173.1 m ³ /day

Note:

(2) It is observed that the existing sewerage pipes after Manhole number: FMH7029930 are separated into 2 flows (i.e. Pipe number: FWD7033506 (600mm) and Pipe number: FWD7057384 (250mm)). As such, discharge from upstream Catchment D2 is therefore assumed to be split into 51.3% generated sewage at each direction.

Catchment D3**1. Cheung Fai Building (51.3%)⁽²⁾**

Total number of units	=	36 units
Total number of residents	=	83 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	22.4 m ³ /day
Sewage Generation rate (51.3%)	=	11.5 m ³ /day

2. Oriental Crystal Commercial Building (51.3%)⁽²⁾

Assumed Area	=	7025 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	=	386 employees
Design flow for commercial employee	=	0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	=	30.9 m ³ /day
Sewage Generation rate (51.3%)	=	15.9 m ³ /day

Retail

Assumed Area	=	133 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	5 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	1.3 m ³ /day
Sewage Generation rate (51.3%)	=	0.7 m ³ /day

3. 48-50 Lyndhurst Terrace (51.3%)⁽²⁾

Total number of units	=	8 units
Total number of residents	=	18 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	5.0 m ³ /day
Sewage Generation rate (51.3%)	=	2.6 m ³ /day

4. Sun Fung Mansion (51.3%)⁽²⁾

Total number of units	=	35 units
Total number of residents	=	81 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	21.7 m ³ /day
Sewage Generation rate (51.3%)	=	11.2 m ³ /day

5. The Mood Lyndhurst (30.8%)⁽²⁾

Numer of hotel rooms	=	31 rooms
Assumed number of employees	=	9 employees -- (assume 3 workers per 10 rooms)
Design Flow	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF J10 - Restaurants & Hotels)
Sewage Generation Rate	=	14.7 m ³ /day
Sewage Generation rate (30.8%)	=	4.5 m ³ /day

6. FOCO (46-48 Cochrane Street) (30.8%)⁽⁴⁾

Assumed Area	=	3908 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	=	215 employees
Design flow for commercial employee	=	0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	=	17.2 m ³ /day
Sewage Generation rate (30.8%)	=	5.3 m ³ /day

F&B

Assumed Area	=	195 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	10 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	15.7 m ³ /day
Sewage Generation rate (30.8%)	=	4.8 m ³ /day

7. H Code (High Block) (30.8%)⁽²⁾

Assumed Area	=	8755 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	=	482 employees
Design flow for commercial employee	=	0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	=	38.5 m ³ /day
Sewage Generation rate (30.8%)	=	11.9 m ³ /day

8. H Code (Low Block) (30.8%)⁽⁴⁾

Assumed Area	=	1011 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	=	56 employees
Design flow for commercial employee	=	0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	=	4.4 m ³ /day
Sewage Generation rate (30.8%)	=	1.4 m ³ /day

9. Amber Lodge (30.8%)⁽³⁾

Total number of units	=	36 units
Total number of residents	=	83 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	22.4 m ³ /day
Sewage Generation rate (30.8%)	=	6.9 m ³ /day

F&B

Assumed Area	=	175 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	9 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	14.1 m ³ /day
Sewage Generation rate (30.8%)	=	4.3 m ³ /day

10. 15 Hollywood Road (30.8%)⁽³⁾

Assumed Area	=	2676 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	=	147 employees
Design flow for commercial employee	=	0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	=	11.8 m ³ /day
Sewage Generation rate (30.8%)	=	3.6 m ³ /day

11. Chinachem Hollywood Centre (30.8%)⁽³⁾

Assumed Area	=	5692 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	=	313 employees
Design flow for commercial employee	=	0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	=	25.0 m ³ /day
Sewage Generation rate (30.8%)	=	7.7 m ³ /day

12. Hollywood House (30.8%)⁽³⁾

Total number of units	=	8 units
Total number of residents	=	18 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	5.0 m ³ /day
Sewage Generation rate (30.8%)	=	1.5 m ³ /day

Retail

Assumed Area	=	62 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	2 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.6 m ³ /day
Sewage Generation rate (30.8%)	=	0.2 m ³ /day

F&B

Assumed Area	=	62 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	3 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	5.0 m ³ /day
Sewage Generation rate (30.8%)	=	1.5 m ³ /day

13. 31-33 Hollywood Road (30.8%)⁽³⁾	
Assumed Area	= 887 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 31 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 8.7 m ³ /day
Sewage Generation rate (30.8%)	= 2.7 m ³ /day
F&B	
Assumed Area	= 111 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.9 m ³ /day
Sewage Generation rate (30.8%)	= 2.8 m ³ /day
14. C Wisdom Centre (30.8%)⁽³⁾	
Assumed Area	= 1655 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	= 91 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 7.3 m ³ /day
Sewage Generation rate (30.8%)	= 2.2 m ³ /day
15. Winning House (30.8%)⁽³⁾	
Total number of units	= 4 units
Total number of residents	= 9 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Sewage Generation rate (30.8%)	= 0.8 m ³ /day
F&B	
Assumed Area	= 133 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 7 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 10.7 m ³ /day
Sewage Generation rate (30.8%)	= 3.3 m ³ /day
16. 24 Hollywood Road (30.8%)⁽³⁾	
Total number of units	= 4 units
Total number of residents	= 9 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Sewage Generation rate (30.8%)	= 0.8 m ³ /day
F&B	
Assumed Area	= 60 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 4.9 m ³ /day
Sewage Generation rate (30.8%)	= 1.5 m ³ /day
17. 22 Hollywood Road (30.8%)⁽³⁾	
Total number of units	= 3 units
Total number of residents	= 7 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 1.9 m ³ /day
Sewage Generation rate (30.8%)	= 0.6 m ³ /day
F&B	
Assumed Area	= 77 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.2 m ³ /day
Sewage Generation rate (30.8%)	= 1.9 m ³ /day
18. 20 Hollywood Road (30.8%)⁽³⁾	
Total number of units	= 1 units
Total number of residents	= 2 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 0.6 m ³ /day
Sewage Generation rate (30.8%)	= 0.2 m ³ /day
F&B	
Assumed Area	= 82 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.6 m ³ /day
Sewage Generation rate (30.8%)	= 2.0 m ³ /day
19. Hollywood Commercial House (30.8%)⁽³⁾	
Assumed Area	= 1605 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	= 88 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 7.1 m ³ /day
Sewage Generation rate (30.8%)	= 2.2 m ³ /day
Retail	
Assumed Area	= 372 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 13 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 3.6 m ³ /day
Sewage Generation rate (30.8%)	= 1.1 m ³ /day
20. 7 Old Bailey Street (30.8%)⁽³⁾	
Total number of units	= 10 units
Total number of residents	= 23 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.2 m ³ /day
Sewage Generation rate (30.8%)	= 1.9 m ³ /day
F&B	
Assumed Area	= 82 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.6 m ³ /day
Sewage Generation rate (30.8%)	= 2.0 m ³ /day
21. Ho Fook Building (30.8%)⁽³⁾	
Total number of units	= 6 units
Total number of residents	= 14 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.7 m ³ /day
Sewage Generation rate (30.8%)	= 1.1 m ³ /day
F&B	
Assumed Area	= 82 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.6 m ³ /day
Sewage Generation rate (30.8%)	= 2.0 m ³ /day

22. 11-13 Old Bailey Street (30.8%)⁽³⁾	
Total number of units	= 14 units
Total number of residents	= 32 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 8.7 m ³ /day
Sewage Generation rate (30.8%)	= 2.7 m ³ /day
F&B	
Assumed Area	= 66 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 5.3 m ³ /day
Sewage Generation rate (30.8%)	= 1.6 m ³ /day
23. 15 Old Bailey Street (30.8%)⁽³⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (30.8%)	= 1.0 m ³ /day
F&B	
Assumed Area	= 66 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 5.3 m ³ /day
Sewage Generation rate (30.8%)	= 1.6 m ³ /day
24. 17 Old Bailey Street (30.8%)⁽³⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (30.8%)	= 1.0 m ³ /day
F&B	
Assumed Area	= 78 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.3 m ³ /day
Sewage Generation rate (30.8%)	= 1.9 m ³ /day
25. Old Bailey Street Police Married Quarters (30.8%)⁽³⁾	
Total number of units	= 144 units
Total number of residents	= 331 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 89.4 m ³ /day
Sewage Generation rate (30.8%)	= 27.5 m ³ /day
26. 19 Old Bailey Street (30.8%)⁽³⁾	
Total number of units	= 10 units
Total number of residents	= 23 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.2 m ³ /day
Sewage Generation rate (30.8%)	= 1.9 m ³ /day
Retail	
Assumed Area	= 66 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.6 m ³ /day
Sewage Generation rate (30.8%)	= 0.2 m ³ /day
27. Sunrise House (30.8%)⁽³⁾	
Total number of units	= 66 units
Total number of residents	= 152 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 41.0 m ³ /day
Sewage Generation rate (30.8%)	= 12.6 m ³ /day
Retail	
Assumed Area	= 382 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 13 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 3.7 m ³ /day
Sewage Generation rate (30.8%)	= 1.2 m ³ /day
28. 46-50 Elgin Street (30.8%)⁽³⁾	
Total number of units	= 12 units
Total number of residents	= 28 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 7.5 m ³ /day
Sewage Generation rate (30.8%)	= 2.3 m ³ /day
Retail	
Assumed Area	= 120 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.2 m ³ /day
Sewage Generation rate (30.8%)	= 0.4 m ³ /day
F&B	
Assumed Area	= 60 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 4.8 m ³ /day
Sewage Generation rate (30.8%)	= 1.5 m ³ /day
29. 52 Elgin Street (30.8%)⁽³⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (30.8%)	= 1.0 m ³ /day
Retail	
Assumed Area	= 120 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.2 m ³ /day
Sewage Generation rate (30.8%)	= 0.4 m ³ /day
30. 20-26 Old Bailey Street, 11 Chancery Lane (30.8%)⁽³⁾	
Total number of units	= 90 units
Total number of residents	= 216 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 58.3 m ³ /day
Sewage Generation rate (30.8%)	= 18.0 m ³ /day

31. Cambridge Villa (30.8%)⁽³⁾	
Total number of units	= 33 units
Total number of residents	= 79 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 21.4 m ³ /day
Sewage Generation rate (30.8%)	= 6.6 m ³ /day
Retail	
Assumed Area	= 263 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 9 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.6 m ³ /day
Sewage Generation rate (30.8%)	= 0.8 m ³ /day
32. Tung Yuen Building (30.8%)⁽³⁾	
Total number of units	= 18 units
Total number of residents	= 43 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 11.7 m ³ /day
Sewage Generation rate (30.8%)	= 3.6 m ³ /day
Retail	
Assumed Area	= 148 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 5 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.4 m ³ /day
Sewage Generation rate (30.8%)	= 0.4 m ³ /day
33. 6 Chancery Lane (30.8%)⁽³⁾	
Total number of units	= 11 units
Total number of residents	= 26 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 7.1 m ³ /day
Sewage Generation rate (30.8%)	= 2.2 m ³ /day
Retail	
Assumed Area	= 148 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 5 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.4 m ³ /day
Sewage Generation rate (30.8%)	= 0.4 m ³ /day
34. The Mood Soho (30.8%)⁽³⁾	
Total number of units	= 15 units
Total number of residents	= 36 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.7 m ³ /day
Sewage Generation rate (30.8%)	= 3.0 m ³ /day
35. Le Caine Mansion (30.8%)⁽³⁾	
Total number of units	= 39 units
Total number of residents	= 94 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 25.3 m ³ /day
Sewage Generation rate (30.8%)	= 7.8 m ³ /day
Retail	
Assumed Area	= 324 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 11 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (30.8%)	= 1.0 m ³ /day
36, 39-41 Caine Road (30.8%)⁽³⁾	
Total number of units	= 38 units
Total number of residents	= 91 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 24.6 m ³ /day
Sewage Generation rate (30.8%)	= 7.6 m ³ /day
Retail	
Assumed Area	= 160 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 6 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.6 m ³ /day
Sewage Generation rate (30.8%)	= 0.5 m ³ /day
F&B	
Assumed Area	= 53 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 4.3 m ³ /day
Sewage Generation rate (30.8%)	= 1.3 m ³ /day
37. Tim Po Court (30.8%)⁽³⁾	
Total number of units	= 46 units
Total number of residents	= 110 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 29.8 m ³ /day
Sewage Generation rate (30.8%)	= 9.2 m ³ /day
Retail	
Assumed Area	= 213 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 7 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.1 m ³ /day
Sewage Generation rate (30.8%)	= 0.6 m ³ /day
38. Tai Kwun (30.8%)⁽³⁾	
Assumed Area	= 12878 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 425 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 119.0 m ³ /day
Sewage Generation rate (30.8%)	= 36.7 m ³ /day
F&B	
Assumed Area	= 5519 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 281 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 444.7 m ³ /day
Sewage Generation rate (30.8%)	= 137.0 m ³ /day
Total Flow from Catchment D3	
Flow Rate (without Catchment Inflow Factor)	= 419.9 m ³ /day
Catchment Inflow Factor	= 1.0 Catchment Inflow Factor for Central in Table T-4 of GEES
Flow Rate (with Catchment Inflow Factor)	= 419.9 m ³ /day

Note:

(3) It is observed that the existing sewerage pipes after Manhole number: FMH7029933 are separated into 2 flows (i.e. Pipe number: FWD7033509 (600mm) and Pipe number: FWD7033510 (400mm)). As such, discharge from upstream Catchment D3 is therefore assumed to be split into 30.8% generated sewage at each direction.

Catchment D4	
1. AL-Aqmar House (18.5%)⁽⁴⁾	
Assumed Area	= 2203 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	= 121 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 9.7 m ³ /day
Sewage Generation rate (18.5%)	= 1.8 m ³ /day
Retail	
Assumed Area	= 54 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (30.8%)	= 0.2 m ³ /day
F&B	
Assumed Area	= 54 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 4.3 m ³ /day
Sewage Generation rate (30.8%)	= 1.3 m ³ /day
2. LL Tower (18.5%)⁽⁴⁾	
Assumed Area	= 3419 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	= 188 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day -- (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 15.0 m ³ /day
Sewage Generation rate (18.5%)	= 2.8 m ³ /day
F&B	
Assumed Area	= 54 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 4.3 m ³ /day
Sewage Generation rate (30.8%)	= 1.3 m ³ /day
3. Lilian Court (18.5%)⁽⁴⁾	
Total number of units	= 48 units
Total number of residents	= 110 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 29.8 m ³ /day
Sewage Generation rate (18.5%)	= 5.5 m ³ /day
4. Maison Libanaise (10 Shelley Street) (18.5%)⁽⁴⁾	
F&B	
Assumed Area	= 124 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 10.0 m ³ /day
Sewage Generation rate (18.5%)	= 1.9 m ³ /day
5. Bakehouse (5 Staunton Street) (18.5%)⁽⁴⁾	
Retail	
Assumed Area	= 34 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 1 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.3 m ³ /day
Sewage Generation rate (18.5%)	= 0.1 m ³ /day
F&B	
Assumed Area	= 34 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 2.8 m ³ /day
Sewage Generation rate (18.5%)	= 0.5 m ³ /day
6. Asiarich Court (18.5%)⁽⁴⁾	
Total number of units	= 10 units
Total number of residents	= 23 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.2 m ³ /day
Sewage Generation rate (18.5%)	= 1.1 m ³ /day
7. Villa Serene (18.5%)⁽⁴⁾	
Total number of units	= 46 units -- (https://hk.centanet.com/estate/en/Villa%20Serene/2-SEYKGPDPJE)
Total number of residents	= 106 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 28.6 m ³ /day
Sewage Generation rate (18.5%)	= 5.3 m ³ /day
Retail	
Assumed Area	= 144 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 5 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.4 m ³ /day
Sewage Generation rate (18.5%)	= 0.3 m ³ /day
8. Chui Man House (18.5%)⁽⁴⁾	
Total number of units	= 4 units
Total number of residents	= 9 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Sewage Generation rate (18.5%)	= 0.5 m ³ /day
F&B	
Assumed Area	= 48 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.9 m ³ /day
Sewage Generation rate (18.5%)	= 0.7 m ³ /day
9. Shama Soho (18.5%)⁽⁴⁾	
Total number of units	= 8 units
Total number of residents	= 18 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 5.0 m ³ /day
Sewage Generation rate (18.5%)	= 0.9 m ³ /day
F&B	
Assumed Area	= 75 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.0 m ³ /day
Sewage Generation rate (18.5%)	= 1.1 m ³ /day

10. 13 Staunton Street (18.5%)⁽⁴⁾	
Total number of units	= 3 units
Total number of residents	= 7 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 1.9 m ³ /day
Sewage Generation rate (18.5%)	= 0.3 m ³ /day
F&B	
Assumed Area	= 48 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 3.9 m ³ /day
Sewage Generation rate (18.5%)	= 0.7 m ³ /day
11. 15 Staunton Street (18.5%)⁽⁴⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (18.5%)	= 0.6 m ³ /day
Retail	
Assumed Area	= 48 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (18.5%)	= 0.1 m ³ /day
12. 17 Staunton Street (18.5%)⁽⁴⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (18.5%)	= 0.6 m ³ /day
Retail	
Assumed Area	= 48 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (18.5%)	= 0.1 m ³ /day
13. 6-8 Staunton Street (18.5%)⁽⁴⁾	
Total number of units	= 10 units
Total number of residents	= 23 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.2 m ³ /day
Sewage Generation rate (18.5%)	= 1.1 m ³ /day
F&B	
Assumed Area	= 112 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 9.0 m ³ /day
Sewage Generation rate (18.5%)	= 1.7 m ³ /day
14. 2-4 Staunton Street (18.5%)⁽⁴⁾	
Total number of units	= 10 units
Total number of residents	= 23 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.2 m ³ /day
Sewage Generation rate (18.5%)	= 1.1 m ³ /day
F&B	
Assumed Area	= 112 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 9.0 m ³ /day
Sewage Generation rate (18.5%)	= 1.7 m ³ /day
15. 14 Shelley Street (18.5%)⁽⁴⁾	
Total number of units	= 8 units
Total number of residents	= 18 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 5.0 m ³ /day
Sewage Generation rate (18.5%)	= 0.9 m ³ /day
F&B	
Assumed Area	= 117 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 9.5 m ³ /day
Sewage Generation rate (18.5%)	= 1.7 m ³ /day
16. Yuppie Tel (18.5%)⁽⁴⁾	
Total number of units	= 45 units
Total number of residents	= 104 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 27.9 m ³ /day
Sewage Generation rate (18.5%)	= 5.2 m ³ /day
17. 18 Shelley Street (18.5%)⁽⁴⁾	
Total number of units	= 8 units
Total number of residents	= 18 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 5.0 m ³ /day
Sewage Generation rate (18.5%)	= 0.9 m ³ /day
F&B	
Assumed Area	= 164 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 8 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 13.2 m ³ /day
Sewage Generation rate (18.5%)	= 2.4 m ³ /day
18. The Hong Kong Swatow Christian Church (18.5%)⁽⁴⁾	
Assumed Area	= 4086 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 135 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 37.8 m ³ /day
Sewage Generation rate (18.5%)	= 7.0 m ³ /day

19. 40 Elgin Street (18.5%)⁽⁴⁾	
Total number of units	= 10 units
Total number of residents	= 23 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.2 m ³ /day
Sewage Generation rate (18.5%)	= 1.1 m ³ /day
Retail	
Assumed Area	= 94 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.9 m ³ /day
Sewage Generation rate (18.5%)	= 0.2 m ³ /day
20. 30 Staunton Street (18.5%)⁽⁴⁾	
Total number of units	= 4 units
Total number of residents	= 9 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.5 m ³ /day
Sewage Generation rate (18.5%)	= 0.5 m ³ /day
F&B	
Assumed Area	= 71 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 5.7 m ³ /day
Sewage Generation rate (18.5%)	= 1.1 m ³ /day
21. 28 Staunton Street (18.5%)⁽⁴⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.1 m ³ /day
Sewage Generation rate (18.5%)	= 0.6 m ³ /day
F&B	
Assumed Area	= 80 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (18.5%)	= 1.2 m ³ /day
22. The Staunton Suites (18.5%)⁽⁴⁾	
Number of hotel rooms	= 78 rooms
Assumed number of employees	= 23 employees – (assume 3 workers per 10 rooms)
Design Flow	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF J10 - Restaurants & Hotels)
Sewage Generation Rate	= 37.0 m ³ /day
Sewage Generation rate (18.5%)	= 6.8 m ³ /day
F&B	
Assumed Area	= 255 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 13 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 20.5 m ³ /day
Sewage Generation rate (18.5%)	= 3.8 m ³ /day
23. Staunton Building (18.5%)⁽⁴⁾	
Total number of units	= 25 units
Total number of residents	= 58 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 15.5 m ³ /day
Sewage Generation rate (18.5%)	= 2.9 m ³ /day
F&B	
Assumed Area	= 205 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 10 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 16.5 m ³ /day
Sewage Generation rate (18.5%)	= 3.0 m ³ /day
24. Treasure View Soho (18.5%)⁽⁴⁾	
Total number of units	= 23 units
Total number of residents	= 53 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 14.3 m ³ /day
Sewage Generation rate (18.5%)	= 2.6 m ³ /day
F&B	
Assumed Area	= 190 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 10 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 15.3 m ³ /day
Sewage Generation rate (18.5%)	= 2.8 m ³ /day
25. 9-13 Shelley Street (18.5%)⁽⁴⁾	
Total number of units	= 16 units
Total number of residents	= 37 people – (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.9 m ³ /day
Sewage Generation rate (18.5%)	= 1.8 m ³ /day
F&B	
Assumed Area	= 195 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 10 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 15.7 m ³ /day
Sewage Generation rate (18.5%)	= 2.9 m ³ /day
Total Flow from Catchment D4	
Flow Rate (without Catchment Inflow Factor)	= 82.8 m ³ /day
Catchment Inflow Factor	= 1.0 Catchment Inflow Factor for Central in Table T-4 of GEFS
Flow Rate (with Catchment Inflow Factor)	= 82.8 m ³ /day

Note:

(4) It is observed that the existing sewerage pipes after Manhole number: FSH7001020 are separated into 2 flows (i.e. Pipe number: FWD7033190 (450mm) and Pipe number: FWD7033192 (300mm)). As such, discharge from upstream Catchment D4 is therefore assumed to be split into 18.5% generated sewage at each direction.

Catchment D5**1. 34B Staunton Street (9.2%)⁽⁵⁾**

Total number of units	=	4 units
Total number of residents	=	9 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	2.5 m ³ /day
Sewage Generation rate (9.2%)	=	0.2 m ³ /day

F&B

Assumed Area	=	83 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	4 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	6.7 m ³ /day
Sewage Generation rate (9.2%)	=	0.6 m ³ /day

2. 32A-32C Staunton Street (9.2%)⁽⁵⁾

Total number of units	=	11 units
Total number of residents	=	25 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	6.8 m ³ /day
Sewage Generation rate (9.2%)	=	0.6 m ³ /day

Retail

Assumed Area	=	77 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	3 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.8 m ³ /day
Sewage Generation rate (9.2%)	=	0.1 m ³ /day

F&B

Assumed Area	=	39 m ²
Assumed floor area per employee	=	19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	=	2 employees
Design flow for commercial employee	=	1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	=	3.1 m ³ /day
Sewage Generation rate (9.2%)	=	0.3 m ³ /day

3. 32 Staunton Street (9.2%)⁽⁵⁾

Total number of units	=	4 units
Total number of residents	=	9 people -- (2021 Population Census: Average Household Size of 2.3 in Chung Wan District)
Design flow	=	0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	=	2.5 m ³ /day
Sewage Generation rate (9.2%)	=	0.2 m ³ /day

Retail

Assumed Area	=	64 m ²
Assumed floor area per employee	=	28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	=	2 employees
Design flow for commercial employee	=	0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	=	0.6 m ³ /day
Sewage Generation rate (9.2%)	=	0.1 m ³ /day

Total Flow from Catchment D5

Flow Rate (without Catchment Inflow Factor)	=	2.1 m ³ /day
Catchment Inflow Factor	=	1.0 Catchment Inflow Factor for Central in Table T-4 of GEFS
Flow Rate (with Catchment Inflow Factor)	=	2.1 m ³ /day

Note:

(5) It is observed that the existing sewerage pipes after Manhole number: FMH7029561 are separated into 2 flows (i.e. Pipe number: FWD7033966 (225mm) and Pipe number: FWD7033202 (225mm)). As such, discharge from upstream Catchment D5 is therefore assumed to be split into 18.5% generated sewage at each direction.

Catchment D6	
1. The Elgin (12.3%)⁽⁶⁾	
Total number of units	= 20 units
Total number of residents	= 48 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 13.0 m ³ /day
Sewage Generation rate (12.3%)	= 1.6 m ³ /day
F&B	
Assumed Area	= 129 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 7 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 10.4 m ³ /day
Sewage Generation rate (12.3%)	= 1.3 m ³ /day
2. Escapade (12.3%)⁽⁶⁾	
Total number of units	= 5 units
Total number of residents	= 12 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
F&B	
Assumed Area	= 101 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.2 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
3. Ho Shing Lau (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 82 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.8 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
4. Cheong Ngar Court (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 82 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.8 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
5. 55 Caine Road (12.3%)⁽⁶⁾	
Total number of units	= 5 units
Total number of residents	= 12 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
Retail	
Assumed Area	= 82 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.8 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
6. 51-53 Caine Road (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
F&B	
Assumed Area	= 162 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 8 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 13.0 m ³ /day
Sewage Generation rate (12.3%)	= 1.6 m ³ /day
7. Ho Kin Building (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 78 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.8 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
8. 47A-47B Caine Road (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 32 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 1 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.3 m ³ /day
Sewage Generation rate (12.3%)	= 0.03 m ³ /day
F&B	
Assumed Area	= 32 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 2 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 2.6 m ³ /day
Sewage Generation rate (12.3%)	= 0.3 m ³ /day

9. Upper Central (12.3%)⁷⁰	
Total number of units	= 85 units
Total number of residents	= 204 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 55.1 m ³ /day
Sewage Generation rate (12.3%)	= 6.8 m ³ /day
Clubhouse	
Assumed Area	= 172 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 6 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 1.6 m ³ /day
Sewage Generation rate (12.3%)	= 0.2 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 107 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 134 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 22 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.4 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 1.6 m ³ /day
Design flow for Swimming Pool Backwashing	= 3.73 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.5 litre/sec
10. Gramercy (12.3%)⁶⁰	
Total number of units	= 106 units
Total number of residents	= 254 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 68.7 m ³ /day
Sewage Generation rate (12.3%)	= 8.5 m ³ /day
F&B	
Assumed Area	= 381 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 19 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 30.7 m ³ /day
Sewage Generation rate (12.3%)	= 3.8 m ³ /day
Clubhouse	
Assumed Area	= 550 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 18 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 5.1 m ³ /day
Sewage Generation rate (12.3%)	= 0.6 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 7 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 9 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 2 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.0 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 0.1 m ³ /day
Design flow for Swimming Pool Backwashing	= 0.26 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.03 litre/sec
11. Sacred Heart Canossian School Private Section (12.3%)⁶⁰	
Total number of teachers & staff	= 32 teachers & staff (from the website)
Design flow for teachers & staff	= 0.28 m ³ /person/day (refer to Table T-2, Commercial Employee)
Total number of students	= 540 students (from the website)
Design flow for students	= 0.04 m ³ /person/day (refer to Table T-2, School Student)
Sewage Generation rate	= 30.6 m ³ /day
Sewage Generation rate (12.3%)	= 3.8 m ³ /day
12. Sacred Heart Chapel (Canossian Missions) (12.3%)⁶⁰	
Assumed Area	= 377 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 12 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 3.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
13. Dragon Court (12.3%)⁶⁰	
Total number of units	= 52 units
Total number of residents	= 125 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 33.7 m ³ /day
Sewage Generation rate (12.3%)	= 4.2 m ³ /day
F&B	
Assumed Area	= 53 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 4.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.5 m ³ /day
Retail	
Assumed Area	= 211 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 7 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.1 m ³ /day
Sewage Generation rate (12.3%)	= 0.3 m ³ /day
14. Sacred Heart Canossian School (12.3%)⁷⁰	
Total number of teachers & staff	= 59 teachers & staff (from the website)
Design flow for teachers & staff	= 0.28 m ³ /person/day (refer to Table T-2, Commercial Employee)
Total number of students	= 900 students (from the website)
Design flow for students	= 0.04 m ³ /person/day (refer to Table T-2, School Student)
Sewage Generation rate	= 52.5 m ³ /day
Sewage Generation rate (12.3%)	= 6.5 m ³ /day
15. 24-24A Caine Road (12.3%)⁶⁰	
Total number of units	= 24 units
Total number of residents	= 58 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 15.6 m ³ /day
Sewage Generation rate (12.3%)	= 1.9 m ³ /day
Retail	
Assumed Area	= 183 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 6 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.8 m ³ /day
Sewage Generation rate (12.3%)	= 0.2 m ³ /day

16. 22A-22 Caine Road (12.3%)⁽⁶⁾	
Total number of units	= 106 units
Total number of residents	= 254 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 68.7 m ³ /day
Sewage Generation rate (12.3%)	= 8.5 m ³ /day
Retail	
Assumed Area	= 102 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.0 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
17. Scenic Rise (12.3%)(6)	
Total number of units	= 143 units
Total number of residents	= 343 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 92.7 m ³ /day
Sewage Generation rate (12.3%)	= 11.4 m ³ /day
Clubhouse	
Assumed Area	= 465 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 15 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 4.3 m ³ /day
Sewage Generation rate (12.3%)	= 0.5 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 71 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 89 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 15 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.3 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 1.0 m ³ /day
Design flow for Swimming Pool Backwashing	= 2.47 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.3 litre/sec
18. Sun Fat Building (12.3%)⁽⁶⁾	
Total number of units	= 18 units
Total number of residents	= 43 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 11.7 m ³ /day
Sewage Generation rate (12.3%)	= 1.4 m ³ /day
19. Tak Mansion (12.3%)⁽⁶⁾	
Total number of units	= 28 units
Total number of residents	= 67 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 18.1 m ³ /day
Sewage Generation rate (12.3%)	= 2.2 m ³ /day
20. Jamia Mosque (12.3%)⁽⁶⁾	
Assumed Area	= 312 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 10 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 2.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
21. 14-18 Mosque Street (12.3%)⁽⁶⁾	
Total number of units	= 98 units
Total number of residents	= 235 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 63.5 m ³ /day
Sewage Generation rate (12.3%)	= 7.8 m ³ /day
Clubhouse	
Assumed Area	= 288 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 9 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 2.7 m ³ /day
Sewage Generation rate (12.3%)	= 0.3 m ³ /day
Retail	
Assumed Area	= 144 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 5 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.4 m ³ /day
Sewage Generation rate (12.3%)	= 0.2 m ³ /day
22. Maxluck Court (12.3%)⁽⁶⁾	
Total number of units	= 24 units
Total number of residents	= 58 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 15.6 m ³ /day
Sewage Generation rate (12.3%)	= 1.9 m ³ /day
23. Central 8 (12.3%)⁽⁶⁾	
Total number of units	= 99 units
Total number of residents	= 238 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 64.2 m ³ /day
Clubhouse	
Assumed Area	= 61 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 2 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 0.6 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 30 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 37 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 6 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.1 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 0.4 m ³ /day
Design flow for Swimming Pool Backwashing	= 1.04 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.1 litre/sec
24. Fook Kee Court (12.3%)⁽⁶⁾	
Total number of units	= 23 units
Total number of residents	= 55 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 14.9 m ³ /day
Sewage Generation rate (12.3%)	= 1.8 m ³ /day

25. The Grand Panorama (Tower 1 to Tower 5) (12.3%)⁽⁶⁾	
Total number of units	= 558 units
Total number of residents	= 1339 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 361.6 m ³ /day
Sewage Generation rate (12.3%)	= 44.6 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 154 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 193 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 32 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.6 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 2.3 m ³ /day
Design flow for Swimming Pool Backwashing	= 5.36 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.66 litre/sec
26. Robinson Heights (12.3%)⁽⁶⁾	
Total number of units	= 484 units
Total number of residents	= 1162 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 313.6 m ³ /day
Sewage Generation rate (12.3%)	= 38.6 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 129 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 162 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 27 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.5 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 1.9 m ³ /day
Design flow for Swimming Pool Backwashing	= 4.49 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.6 litre/sec
27. Bishop Lei International House (12.3%)⁽⁶⁾	
Total number of units	= 484 units
Total number of residents	= 1162 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 313.6 m ³ /day
Sewage Generation rate (12.3%)	= 38.6 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 266 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 332 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 55 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 1.1 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 3.9 m ³ /day
Design flow for Swimming Pool Backwashing	= 9.22 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 1.1 litre/sec
28. Honor Villa (12.3%)⁽⁶⁾	
Total number of units	= 78 units
Total number of residents	= 187 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 50.5 m ³ /day
Sewage Generation rate (12.3%)	= 6.2 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 123 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 154 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 26 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.5 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 1.8 m ³ /day
Design flow for Swimming Pool Backwashing	= 4.27 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.5 litre/sec
29. Caine Hill (12.3%)⁽⁶⁾	
Total number of units	= 187 units
Total number of residents	= 449 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 121.2 m ³ /day
Sewage Generation rate (12.3%)	= 14.9 m ³ /day
30. Ideal House (12.3%)⁽⁶⁾	
Total number of units	= 17 units
Total number of residents	= 41 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 11.0 m ³ /day
Sewage Generation rate (12.3%)	= 1.4 m ³ /day
Retail	
Assumed Area	= 131 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 5 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.3 m ³ /day
Sewage Generation rate (12.3%)	= 0.2 m ³ /day
31. Cameo Court (12.3%)⁽⁶⁾	
Total number of units	= 86 units
Total number of residents	= 206 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 55.7 m ³ /day
Sewage Generation rate (12.3%)	= 6.9 m ³ /day
Retail	
Assumed Area	= 474 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 17 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 4.6 m ³ /day
Sewage Generation rate (12.3%)	= 0.6 m ³ /day

32. Ichang House (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
F&B	
Assumed Area	= 134 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 7 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 10.8 m ³ /day
Sewage Generation rate (12.3%)	= 1.3 m ³ /day
33. Castle One By V (12.3%)⁽⁶⁾	
Total number of units	= 112 units
Total number of residents	= 269 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 72.6 m ³ /day
Sewage Generation rate (12.3%)	= 8.9 m ³ /day
34. Caine Mansion (12.3%)⁽⁶⁾	
Total number of units	= 144 units
Total number of residents	= 346 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 93.3 m ³ /day
Sewage Generation rate (12.3%)	= 11.5 m ³ /day
Retail	
Assumed Area	= 395 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 14 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 3.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.5 m ³ /day
F&B	
Assumed Area	= 395 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 20 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 31.9 m ³ /day
Sewage Generation rate (12.3%)	= 3.9 m ³ /day
35. Ying Fai Court (12.3%)⁽⁶⁾	
Total number of units	= 74 units
Total number of residents	= 178 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 48.0 m ³ /day
Sewage Generation rate (12.3%)	= 5.9 m ³ /day
36. Bella Vista (12.3%)⁽⁶⁾	
Total number of units	= 174 units
Total number of residents	= 418 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 112.8 m ³ /day
Sewage Generation rate (12.3%)	= 13.9 m ³ /day
37. The Fortune Gardens (12.3%)⁽⁶⁾	
Total number of units	= 186 units
Total number of residents	= 446 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 120.5 m ³ /day
Sewage Generation rate (12.3%)	= 14.9 m ³ /day
38. 13 Seymour Road (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 186 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 7 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.8 m ³ /day
Sewage Generation rate (12.3%)	= 0.2 m ³ /day
39. Seymour (12.3%)⁽⁶⁾	
Total number of units	= 82 units
Total number of residents	= 197 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 53.1 m ³ /day
Sewage Generation rate (12.3%)	= 6.5 m ³ /day
Clubhouse	
Assumed Area	= 769 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 25 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 7.1 m ³ /day
Sewage Generation rate (12.3%)	= 0.9 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 80 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 100 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 17 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.3 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 1.2 m ³ /day
Design flow for Swimming Pool Backwashing	= 2.77 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.3 litre/sec
40. Palatial Crest (12.3%)⁽⁶⁾	
Total number of units	= 188 units
Total number of residents	= 451 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 121.8 m ³ /day
Sewage Generation rate (12.3%)	= 15.0 m ³ /day
Retail	
Assumed Area	= 340 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 12 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 3.3 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day

41. Fairview Height (12.3%)⁽⁶⁾	
Total number of units	= 198 units
Total number of residents	= 475 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 128.3 m³/day
Sewage Generation rate (12.3%)	= 15.8 m³/day
Retail	
Assumed Area	= 148 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 5 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.5 m³/day
Sewage Generation rate (12.3%)	= 0.2 m³/day
F&B	
Assumed Area	= 592 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 30 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 47.7 m³/day
Sewage Generation rate (12.3%)	= 5.9 m³/day
Swimming Pool	
Assumed Area of Swimming Pool	= 62 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 77 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 15 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.3 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 0.9 m ³ /day
Design flow for Swimming Pool Backwashing	= 2.15 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.3 litre/sec
42. Golden Pavilion (12.3%)⁽⁶⁾	
Total number of units	= 77 units
Total number of residents	= 185 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 49.9 m³/day
Sewage Generation rate (12.3%)	= 6.1 m³/day
Retail	
Assumed Area	= 111 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.1 m³/day
Sewage Generation rate (12.3%)	= 0.1 m³/day
43. Midland Court (12.3%)(6)	
Total number of units	= 96 units
Total number of residents	= 230 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 62.2 m³/day
Sewage Generation rate (12.3%)	= 7.7 m³/day
Retail	
Assumed Area	= 116 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.1 m³/day
Sewage Generation rate (12.3%)	= 0.1 m³/day
F&B	
Assumed Area	= 116 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 9.4 m³/day
Sewage Generation rate (12.3%)	= 1.2 m³/day
44. Hong Kong Baptist Church (12.3%)⁽⁶⁾	
Assumed Area	= 6211 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 205 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 57.4 m³/day
Sewage Generation rate (12.3%)	= 7.1 m³/day
45. 17-19 Prince's Terrace (12.3%)⁽⁶⁾	
Total number of units	= 12 units
Total number of residents	= 29 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 7.8 m³/day
Sewage Generation rate (12.3%)	= 1.0 m³/day
46. 13 Prince's Terrace (12.3%)⁽⁶⁾	
Total number of units	= 15 units
Total number of residents	= 36 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.7 m³/day
Sewage Generation rate (12.3%)	= 1.2 m³/day
Retail	
Assumed Area	= 24 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 1 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.2 m³/day
Sewage Generation rate (12.3%)	= 0.03 m³/day
47. 11 Prince's Terrace (12.3%)⁽⁶⁾	
Total number of units	= 14 units
Total number of residents	= 34 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.1 m³/day
Sewage Generation rate (12.3%)	= 1.1 m³/day
48. 9 Prince's Terrace (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m³/day
Sewage Generation rate (12.3%)	= 0.8 m³/day
49. 5-7 Prince's Terrace (12.3%)⁽⁶⁾	
Total number of units	= 20 units
Total number of residents	= 48 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 13.0 m³/day
Sewage Generation rate (12.3%)	= 1.6 m³/day
Retail	
Assumed Area	= 36 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 1 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.4 m³/day
Sewage Generation rate (12.3%)	= 0.0 m³/day

50. 3 Prince's Terrace (12.3%)⁽⁶⁾	
Total number of units	= 6 units
Total number of residents	= 14 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.5 m ³ /day
F&B	
Assumed Area	= 101 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.1 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
51. 1 Prince's Terrace (12.3%)⁽⁶⁾	
Total number of units	= 6 units -
Total number of residents	= 14 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.5 m ³ /day
F&B	
Assumed Area	= 101 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.1 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
52. Nikken Heights (12.3%)⁽⁶⁾	
Total number of units	= 46 units
Total number of residents	= 110 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 29.8 m ³ /day
Sewage Generation rate (12.3%)	= 3.7 m ³ /day
53. Prince's Court (12.3%)⁽⁶⁾	
Total number of units	= 14 units
Total number of residents	= 34 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.1 m ³ /day
Sewage Generation rate (12.3%)	= 1.1 m ³ /day
Retail	
Assumed Area	= 103 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.0 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
54. Prince Palace (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
Retail	
Assumed Area	= 103 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.0 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
55. Po Fat Building (12.3%)⁽⁶⁾	
Total number of units	= 12 units
Total number of residents	= 29 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 7.8 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
56. Bonito Casa (12.3%)⁽⁶⁾	
Total number of units	= 12 units
Total number of residents	= 29 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 7.8 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
F&B	
Assumed Area	= 101 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.1 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
57. Sung Tak Mansion (12.3%)⁽⁶⁾	
Total number of units	= 14 units
Total number of residents	= 34 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 9.1 m ³ /day
Sewage Generation rate (12.3%)	= 1.1 m ³ /day
F&B	
Assumed Area	= 101 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.1 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
58. The Rednaxela (12.3%)⁽⁶⁾	
Total number of units	= 75 units
Total number of residents	= 180 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 48.6 m ³ /day
Sewage Generation rate (12.3%)	= 6.0 m ³ /day
59. ACTS Rednaxela (12.3%)⁽⁶⁾	
Numer of hotel rooms	= 15 rooms
Assumed number of employees	= 5 employees – (assume 3 workers per 10 rooms)
Design Flow	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF J10 - Restaurants & Hotels)
Sewage Generation Rate	= 7.1 m ³ /day
Sewage Generation rate (12.3%)	= 0.9 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 49 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 62 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 10 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.2 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 0.7 m ³ /day
Design flow for Swimming Pool Backwashing	= 1.71 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.2 litre/sec

60. 15 Shelley Street (12.3%)⁽⁶⁾	
Total number of units	= 4 units
Total number of residents	= 10 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.6 m ³ /day
Sewage Generation rate (12.3%)	= 0.3 m ³ /day
61. 17 Shelley Street (12.3%)⁽⁶⁾	
Total number of units	= 3 units
Total number of residents	= 7 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 1.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.2 m ³ /day
62. 17A Shelley Street (12.3%)⁽⁶⁾	
Total number of units	= 4 units
Total number of residents	= 10 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.6 m ³ /day
Sewage Generation rate (12.3%)	= 0.3 m ³ /day
63. Shelley Court (21Shelley Street) (12.3%)⁽⁶⁾	
Total number of units	= 24 units
Total number of residents	= 58 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 15.6 m ³ /day
Sewage Generation rate (12.3%)	= 1.9 m ³ /day
64. Shelley Court (23-25 Shelley Street) (12.3%)⁽⁶⁾	
Total number of units	= 24 units
Total number of residents	= 58 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 15.6 m ³ /day
Sewage Generation rate (12.3%)	= 1.9 m ³ /day
65. 3 Chico Terrace (12.3%)⁽⁶⁾	
Total number of units	= 36 units
Total number of residents	= 86 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 23.3 m ³ /day
Sewage Generation rate (12.3%)	= 2.9 m ³ /day
66. 4 Chico Terrace (12.3%)⁽⁶⁾	
Total number of units	= 6 units
Total number of residents	= 14 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.5 m ³ /day
67. Kam Lei Building (12.3%)⁽⁶⁾	
Total number of units	= 36 units
Total number of residents	= 86 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 23.3 m ³ /day
Sewage Generation rate (12.3%)	= 2.9 m ³ /day
Retail	
Assumed Area	= 216 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 8 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.1 m ³ /day
Sewage Generation rate (12.3%)	= 0.3 m ³ /day
68. Kin Hing House (12.3%)⁽⁶⁾	
Total number of units	= 10 units
Total number of residents	= 24 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 6.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.8 m ³ /day
F&B	
Assumed Area	= 100 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.0 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
69. 27 Shelley Street (12.3%)⁽⁶⁾	
Total number of units	= 5 units
Total number of residents	= 12 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
70. 29 Shelley Street (12.3%)⁽⁶⁾	
Total number of units	= 4 units
Total number of residents	= 10 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.6 m ³ /day
Sewage Generation rate (12.3%)	= 0.3 m ³ /day
71. Orchid (12.3%)⁽⁶⁾	
Total number of units	= 46 units
Total number of residents	= 110 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 29.8 m ³ /day
Sewage Generation rate (12.3%)	= 3.7 m ³ /day
F&B	
Assumed Area	= 221 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 11 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 17.8 m ³ /day
Sewage Generation rate (12.3%)	= 2.2 m ³ /day
72. Ryan Mansion (12.3%)⁽⁶⁾	
Total number of units	= 78 units
Total number of residents	= 187 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 50.5 m ³ /day
Sewage Generation rate (12.3%)	= 6.2 m ³ /day
Retail	
Assumed Area	= 95 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
F&B	
Assumed Area	= 95 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 7.6 m ³ /day
Sewage Generation rate (12.3%)	= 0.9 m ³ /day

73. Rich Court (12.3%)⁽⁶⁾	
Total number of units	= 40 units
Total number of residents	= 96 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 25.9 m³/day
Sewage Generation rate (12.3%)	= 3.2 m³/day
74. 8 Shelley Street (12.3%)⁽⁶⁾	
F&B	
Assumed Area	= 86 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.9 m³/day
Sewage Generation rate (12.3%)	= 0.9 m³/day
75. Soho 38 (12.3%)⁽⁶⁾	
Total number of units	= 77 unit
Total number of residents	= 185 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 49.9 m³/day
Sewage Generation rate (12.3%)	= 6.1 m³/day
76. Ka Yee Court (12.3%)⁽⁶⁾	
Total number of units	= 48 units
Total number of residents	= 115 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 31.1 m³/day
Sewage Generation rate (12.3%)	= 3.8 m³/day
Retail	
Assumed Area	= 68 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.7 m³/day
Sewage Generation rate (12.3%)	= 0.1 m³/day
F&B	
Assumed Area	= 68 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 3 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 5.4 m³/day
Sewage Generation rate (12.3%)	= 0.7 m³/day
77. 21 Mosque Street (12.3%)⁽⁶⁾	
Total number of units	= 6 units
Total number of residents	= 14 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.9 m³/day
Sewage Generation rate (12.3%)	= 0.5 m³/day
Retail	
Assumed Area	= 51 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m³/day
Sewage Generation rate (12.3%)	= 0.1 m³/day
78. Peach Blossom (12.3%)⁽⁶⁾	
Total number of units	= 50 units
Total number of residents	= 120 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 32.4 m³/day
Sewage Generation rate (12.3%)	= 4.0 m³/day
79. 11 Mosque Street (12.3%)⁽⁶⁾	
Total number of units	= 4 units
Total number of residents	= 10 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 2.6 m³/day
Sewage Generation rate (12.3%)	= 0.3 m³/day
80. Floral Tower (12.3%)⁽⁶⁾	
Total number of units	= 124 units
Total number of residents	= 298 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 80.4 m³/day
Sewage Generation rate (12.3%)	= 9.9 m³/day
Retail	
Assumed Area	= 388 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 14 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 3.8 m³/day
Sewage Generation rate (12.3%)	= 0.5 m³/day
81. Lily Court (12.3%)⁽⁶⁾	
Total number of units	= 98 units
Total number of residents	= 235 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 63.5 m³/day
Sewage Generation rate (12.3%)	= 7.8 m³/day
Retail	
Assumed Area	= 259 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 9 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.5 m³/day
Sewage Generation rate (12.3%)	= 0.3 m³/day
Swimming Pool	
Assumed Area of Swimming Pool	= 56 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 70 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 12 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.2 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 0.8 m ³ /day
Design flow for Swimming Pool Backwashing	= 1.93 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.2 litre/sec
82. Kar Ling House (12.3%)⁽⁶⁾	
Total number of units	= 12 units
Total number of residents	= 29 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 7.8 m³/day
Sewage Generation rate (12.3%)	= 1.0 m³/day
Retail	
Assumed Area	= 124 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.2 m³/day
Sewage Generation rate (12.3%)	= 0.1 m³/day

83. Sherwood Court (12.3%)⁽⁶⁾	
Total number of units	= 48 units
Total number of residents	= 115 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 31.1 m ³ /day
Sewage Generation rate (12.3%)	= 3.8 m ³ /day
84. 29 Mosque Junction (12.3%)⁽⁶⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
Retail	
Assumed Area	= 55 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
85. 31 Mosque Junction (12.3%)⁽⁶⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
Retail	
Assumed Area	= 55 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
86. Chuk Shu House (12.3%)⁽⁶⁾	
Total number of units	= 5 units
Total number of residents	= 12 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
Retail	
Assumed Area	= 55 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
87. Wise Mansion (12.3%)⁽⁶⁾	
Total number of units	= 111 units
Total number of residents	= 266 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 71.9 m ³ /day
Sewage Generation rate (12.3%)	= 8.9 m ³ /day
Retail	
Assumed Area	= 1124 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 39 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 11.0 m ³ /day
Sewage Generation rate (12.3%)	= 1.4 m ³ /day
88. Losion Villa (12.3%)⁽⁶⁾	
Total number of units	= 48 units
Total number of residents	= 115 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 31.1 m ³ /day
Sewage Generation rate (12.3%)	= 3.8 m ³ /day
89. 2J Mosque Junction (12.3%)⁽⁶⁾	
Total number of units	= 6 units
Total number of residents	= 14 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.5 m ³ /day
90. Peace Tower (12.3%)⁽⁶⁾	
Total number of units	= 41 units
Total number of residents	= 98 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 26.6 m ³ /day
Sewage Generation rate (12.3%)	= 3.3 m ³ /day
Retail	
Assumed Area	= 100 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.0 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
F&B	
Assumed Area	= 100 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.0 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day

91. 34 Robinson Road (12.3%)⁽⁶⁾	
Total number of units	= 5 units
Total number of residents	= 12 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.4 m ³ /day
F&B	
Assumed Area	= 91 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 7.4 m ³ /day
Sewage Generation rate (12.3%)	= 0.9 m ³ /day
92. Arts Building (12.3%)⁽⁶⁾	
Total number of units	= 46 units
Total number of residents	= 110 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 29.8 m ³ /day
Sewage Generation rate (12.3%)	= 3.7 m ³ /day
Retail	
Assumed Area	= 114 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 4 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 1.1 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
F&B	
Assumed Area	= 114 m ²
Assumed floor area per employee	= 19.6 m ² per worker -- (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 6 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day -- (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 9.2 m ³ /day
Sewage Generation rate (12.3%)	= 1.1 m ³ /day
93. 42 Robinson Road (12.3%)⁽⁶⁾	
Total number of units	= 7 units
Total number of residents	= 17 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 4.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.6 m ³ /day
Retail	
Assumed Area	= 96 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
94. 44 Robinson Road (12.3%)⁽⁶⁾	
Total number of units	= 7 units
Total number of residents	= 17 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 4.5 m ³ /day
Sewage Generation rate (12.3%)	= 0.6 m ³ /day
Retail	
Assumed Area	= 96 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.9 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day
95. Ming Garden (12.3%)⁽⁶⁾	
Total number of units	= 46 units
Total number of residents	= 110 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 29.8 m ³ /day
Sewage Generation rate (12.3%)	= 3.7 m ³ /day
Retail	
Assumed Area	= 217 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 8 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.1 m ³ /day
Sewage Generation rate (12.3%)	= 0.3 m ³ /day
96. 49B-49C Robinson Road (12.3%)⁽⁶⁾	
Total number of units	= 8 units
Total number of residents	= 19 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 5.2 m ³ /day
Sewage Generation rate (12.3%)	= 0.6 m ³ /day
97. Vantage Park (12.3%)⁽⁶⁾	
Total number of units	= 336 units
Total number of residents	= 806 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 217.9 m ³ /day
Sewage Generation rate (12.3%)	= 26.8 m ³ /day
98. Ivory Court (12.3%)⁽⁶⁾	
Total number of units	= 17 units
Total number of residents	= 41 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 11.0 m ³ /day
Sewage Generation rate (12.3%)	= 1.4 m ³ /day
99. Cimbria Court (12.3%)⁽⁶⁾	
Total number of units	= 28 units
Total number of residents	= 67 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 18.1 m ³ /day
Sewage Generation rate (12.3%)	= 2.2 m ³ /day
100. East Sun Mansion (12.3%)⁽⁶⁾	
Total number of units	= 52 units
Total number of residents	= 125 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 33.7 m ³ /day
Sewage Generation rate (12.3%)	= 4.2 m ³ /day
101. 33-35 Robinson Road (12.3%)⁽⁶⁾	
Total number of units	= 12 units
Total number of residents	= 29 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 7.8 m ³ /day
Sewage Generation rate (12.3%)	= 1.0 m ³ /day
Retail	
Assumed Area	= 70 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 2 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.7 m ³ /day
Sewage Generation rate (12.3%)	= 0.1 m ³ /day

102. No. 31 Robinson Road (12.3%)⁽⁶⁾	
Total number of units	= 84 units
Total number of residents	= 202 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 54.4 m³/day
Sewage Generation rate (12.3%)	= 6.7 m³/day
Clubhouse	
Assumed Area	= 764 m ²
Assumed floor area per employee	= 30.3 m ² per worker -- (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 25 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 7.1 m³/day
Sewage Generation rate (12.3%)	= 0.9 m³/day
Swimming Pool	
Assumed Area of Swimming Pool	= 283 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 354 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 59 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 1.2 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 4.1 m ³ /day
Design flow for Swimming Pool Backwashing	= 9.83 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 1.2 litre/sec
103. Right Mansion (12.3%)⁽⁶⁾	
Total number of units	= 30 units
Total number of residents	= 72 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 19.4 m³/day
Sewage Generation rate (12.3%)	= 2.4 m³/day
104. Jing Tai Garden Mansion (12.3%)⁽⁶⁾	
Total number of units	= 80 units
Total number of residents	= 192 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 51.8 m³/day
Sewage Generation rate (12.3%)	= 6.4 m³/day
105. Wellesley (12.3%)⁽⁶⁾	
Total number of units	= 106 units
Total number of residents	= 254 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 68.7 m³/day
Sewage Generation rate (12.3%)	= 8.5 m³/day
Clubhouse	
Assumed Area	= 1265 m ²
Assumed floor area per employee	= 30.3 m ² per worker -- (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 42 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 11.7 m³/day
Sewage Generation rate (12.3%)	= 1.4 m³/day
Swimming Pool	
Assumed Area of Swimming Pool	= 283 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 354 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 59 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 1.2 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 4.1 m ³ /day
Design flow for Swimming Pool Backwashing	= 9.83 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 1.2 litre/sec
106. Good View Court (12.3%)⁽⁶⁾	
Total number of units	= 48 units
Total number of residents	= 115 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 31.1 m³/day
Sewage Generation rate (12.3%)	= 3.8 m³/day
Retail	
Assumed Area	= 233 m ²
Assumed floor area per employee	= 28.6 m ² per worker -- (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 8 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day -- (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.3 m³/day
Sewage Generation rate (12.3%)	= 0.3 m³/day
107. Golden Court (12.3%)⁽⁶⁾	
Total number of units	= 12 units
Total number of residents	= 29 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 7.8 m³/day
Sewage Generation rate (12.3%)	= 1.0 m³/day
108. Roc Ye Court (12.3%)⁽⁶⁾	
Total number of units	= 48 units
Total number of residents	= 115 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 31.1 m³/day
Sewage Generation rate (12.3%)	= 3.8 m³/day
109. Regal Crest (12.3%)⁽⁶⁾	
Total number of units	= 48 units
Total number of residents	= 115 people -- (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day -- (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 31.1 m³/day
Sewage Generation rate (12.3%)	= 3.8 m³/day
Swimming Pool	
Assumed Area of Swimming Pool	= 91 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 114 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 19 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.4 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 1.3 m ³ /day
Design flow for Swimming Pool Backwashing	= 3.17 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.4 litre/sec

110. Yukon Court (12.3%)⁽⁶⁾	
Total number of units	= 54 units
Total number of residents	= 130 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 35.0 m ³ /day
Sewage Generation rate (12.3%)	= 4.3 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 117 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 146 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 24 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.5 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 1.7 m ³ /day
Design flow for Swimming Pool Backwashing	= 4.05 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.5 m ³ /day
111. Tycoon Court (12.3%)⁽⁶⁾	
Total number of units	= 186 units
Total number of residents	= 446 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 120.5 m ³ /day
Sewage Generation rate (12.3%)	= 14.9 m ³ /day
112. Mountain View Court (12.3%)⁽⁶⁾	
Total number of units	= 26 units
Total number of residents	= 62 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 16.8 m ³ /day
Sewage Generation rate (12.3%)	= 2.1 m ³ /day
113. Emerald Court (12.3%)⁽⁶⁾	
Total number of units	= 16 units
Total number of residents	= 38 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 10.4 m ³ /day
Sewage Generation rate (12.3%)	= 1.3 m ³ /day
114. Conduit 18 (12.3%)⁽⁶⁾	
Total number of units	= 32 units
Total number of residents	= 77 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 20.7 m ³ /day
Sewage Generation rate (12.3%)	= 2.6 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 82 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 102 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 17 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.3 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 1.2 m ³ /day
Design flow for Swimming Pool Backwashing	= 2.85 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.4 litre/sec
115. Conduit Tower (12.3%)⁽⁶⁾	
Total number of units	= 108 units
Total number of residents	= 259 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 70.0 m ³ /day
Sewage Generation rate (12.3%)	= 8.6 m ³ /day
Swimming Pool	
Assumed Area of Swimming Pool	= 50 m ²
Average Depth of Water	= 1.25 m (ordinary assumption)
Volume of Swimming Pool (Ordinary Assumption)	= 62 m ³
Turnover Rate	= 6 hr
Required Surface Loading Rate of Filter	= 10 m ³ /m ² /hr
Filter Areas required	= 1.0 m ²
Adopted Surface Loading Rate of Filter	= 50 m ³ /m ² /hr
Adopted Filter Area	= 0.2 m ²
Backwash Duration	= 7 min/d
Backwash flow rate	= 30 m ³ /m ² /hr
Design flow for Swimming Pool Backwashing	= 0.7 m ³ /day
Design flow for Swimming Pool Backwashing	= 1.73 litre/sec
Design flow for Swimming Pool Backwashing (12.3%)	= 0.2 m ³ /day
116. Panorama (12.3%)⁽⁶⁾	
Total number of units	= 52 units
Total number of residents	= 125 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 33.7 m ³ /day
Sewage Generation rate (12.3%)	= 4.2 m ³ /day
117. Elegant Garden (12.3%)⁽⁶⁾	
Total number of units	= 39 units
Total number of residents	= 94 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 25.3 m ³ /day
Sewage Generation rate (12.3%)	= 3.1 m ³ /day
118. Olympian Mansion (12.3%)⁽⁶⁾	
Total number of units	= 42 units
Total number of residents	= 101 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 27.2 m ³ /day
Sewage Generation rate (12.3%)	= 3.4 m ³ /day
119. Pearl Gardens (12.3%)⁽⁶⁾	
Total number of units	= 120 units
Total number of residents	= 288 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 77.8 m ³ /day
Sewage Generation rate (12.3%)	= 9.6 m ³ /day
120. Botanic Terrace (12.3%)⁽⁶⁾	
Total number of units	= 82 units
Total number of residents	= 197 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 53.1 m ³ /day
Sewage Generation rate (12.3%)	= 6.5 m ³ /day
121. Chater Hall (12.3%)⁽⁶⁾	
Total number of units	= 53 units
Total number of residents	= 127 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 34.3 m ³ /day
Sewage Generation rate (12.3%)	= 4.2 m ³ /day
Total Flow from Catchment D6	
Flow Rate (without Catchment Inflow Factor)	= 699.1 m ³ /day
Catchment Inflow Factor	= 1.0 Catchment Inflow Factor for Central in Table T-4 of GESF
Flow Rate (with Catchment Inflow Factor)	= 699.1 m ³ /day

Note:

(6) It is observed that the existing sewerage pipes after Manhole number: FMH7031483 are separated into 2 flows (i.e. Pipe number: FWD7035513 (450mm) and Pipe number: FWD7035641 (225mm)). As such, discharge from upstream Catchment D6 is therefore assumed to be split into 18.5% generated sewage at each direction.

Catchment D7	
1. Chancery House (5-5A Chancery Lane) (15.4%)⁽⁷⁾	
Total number of units	= 24 units
Total number of residents	= 58 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 15.6 m ³ /day
Sewage Generation rate (15.4%)	= 2.4 m ³ /day
2. 1-4 Chancery Lane (15.4%)⁽⁷⁾	
Total number of units	= 80 units
Total number of residents	= 192 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 51.8 m ³ /day
Sewage Generation rate (15.4%)	= 8.0 m ³ /day
3. Avon Court (15.4%)⁽⁷⁾	
Total number of units	= 33 units
Total number of residents	= 79 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 21.4 m ³ /day
Sewage Generation rate (15.4%)	= 3.3 m ³ /day
Retail	
Assumed Area	= 243 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 9 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.4 m ³ /day
Sewage Generation rate (15.4%)	= 0.4 m ³ /day
4. 25-27 Caine Road (15.4%)⁽⁷⁾	
Total number of units	= 21 units
Total number of residents	= 50 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 13.6 m ³ /day
Sewage Generation rate (15.4%)	= 2.1 m ³ /day
Retail	
Assumed Area	= 266 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 9 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 2.6 m ³ /day
Sewage Generation rate (15.4%)	= 0.4 m ³ /day
5. 29-31 Caine Road (15.4%)⁽⁷⁾	
Total number of units	= 17 units
Total number of residents	= 41 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 11.0 m ³ /day
Sewage Generation rate (15.4%)	= 1.7 m ³ /day
6. Fan Hing Christian Association (15.4%)⁽⁷⁾	
Assumed Area	= 204 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 7 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 1.9 m ³ /day
Sewage Generation rate (15.4%)	= 0.3 m ³ /day
7. Universal Trade Centre (15.4%)⁽⁷⁾	
Assumed Area	= 17276 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	= 950 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 76.0 m ³ /day
Sewage Generation rate (15.4%)	= 11.7 m ³ /day
Retail	
Assumed Area	= 564 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 20 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 5.5 m ³ /day
Sewage Generation rate (15.4%)	= 0.9 m ³ /day
8. Cordial Mansion (15.4%)⁽⁷⁾	
Total number of units	= 93 units
Total number of residents	= 223 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 60.3 m ³ /day
Sewage Generation rate (15.4%)	= 9.3 m ³ /day
9. Yuen Ming Building (15.4%)⁽⁷⁾	
Total number of units	= 26 units
Total number of residents	= 62 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 16.8 m ³ /day
Sewage Generation rate (15.4%)	= 2.6 m ³ /day
10. Caritas Institute of Community Education (11 Caine Road) (15.4%)⁽⁷⁾	
Total number of teachers & staff	= 19 teachers & staff (from the website)
Design flow for teachers & staff	= 0.28 m ³ /person/day (refer to Table T-2, Commercial Employee)
Total number of students	= 11 students (from the website)
Design flow for students	= 0.04 m ³ /person/day (refer to Table T-2, School Student)
Sewage Generation rate	= 5.8 m ³ /day
Sewage Generation rate (15.4%)	= 0.9 m ³ /day
11. Bel Mount Garden (15.4%)⁽⁷⁾	
Total number of units	= 66 units
Total number of residents	= 158 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 42.8 m ³ /day
Sewage Generation rate (15.4%)	= 6.6 m ³ /day
12. Botanical Court (15.4%)⁽⁷⁾	
Total number of units	= 24 units
Total number of residents	= 58 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 15.6 m ³ /day
Sewage Generation rate (15.4%)	= 2.4 m ³ /day
13. Tutor Time 多多 (15.4%)⁽⁷⁾	
Total number of teachers & staff	= 4 teachers & staff (from the website)
Design flow for teachers & staff	= 0.28 m ³ /person/day (refer to Table T-2, Commercial Employee)
Total number of students	= 17 students (from the website)
Design flow for students	= 0.04 m ³ /person/day (refer to Table T-2, School Student)
Sewage Generation rate	= 1.8 m ³ /day
Sewage Generation rate (15.4%)	= 0.3 m ³ /day
14. Townplace Soho (15.4%)⁽⁷⁾	
Numer of hotel rooms	= 293 rooms
Assumed number of employees	= 88 employees – (assume 3 workers per 10 rooms)
Design Flow	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF J10 - Restaurants & Hotels)
Sewage Generation Rate	= 138.9 m ³ /day
Sewage Generation rate (15.4%)	= 21.4 m ³ /day
15. Catholic Diocese Centre (15.4%)⁽⁷⁾	
Assumed Area	= 13740 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 453 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 127.0 m ³ /day
Sewage Generation rate (15.4%)	= 19.6 m ³ /day
16. Cathedral Office (15.4%)⁽⁷⁾	
Assumed Area	= 2714 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	= 149 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 11.9 m ³ /day
Sewage Generation rate (15.4%)	= 1.8 m ³ /day

17. Hong Kong Catholic Cathedral of the Immaculate Conception (15.4%)⁽⁷⁾	
Assumed Area	= 1575 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 52 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 14.6 m ³ /day
Sewage Generation rate (15.4%)	= 2.2 m ³ /day
18. Caritas House (2 Caine Road) (15.4%)⁽⁷⁾	
Assumed Area	= 10962 m ²
Assumed floor area per employee	= 30.3 m ² per worker – (refer to Table 8 of CIFSUS - Community, Social & Personal Services)
Total number of employees	= 362 employees
Design flow for commercial activities	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J11)
Sewage Generation rate	= 101.3 m ³ /day
Sewage Generation rate (15.4%)	= 15.6 m ³ /day
19. Fortune Court (15.4%)⁽⁷⁾	
Total number of units	= 48 units
Total number of residents	= 115 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 31.1 m ³ /day
Sewage Generation rate (15.4%)	= 4.8 m ³ /day
20. Mandarin Court (15.4%)⁽⁷⁾	
Total number of units	= 20 units
Total number of residents	= 48 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 13.0 m ³ /day
Sewage Generation rate (15.4%)	= 2.0 m ³ /day
21. Arbuthnot House (15.4%)⁽⁷⁾	
Total number of units	= 65 units
Total number of residents	= 156 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 42.1 m ³ /day
Sewage Generation rate (15.4%)	= 6.5 m ³ /day
Retail	
Assumed Area	= 329 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 12 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 3.2 m ³ /day
Sewage Generation rate (15.4%)	= 0.5 m ³ /day
22. Shin King Court (15.4%)⁽⁷⁾	
Total number of units	= 42 units
Total number of residents	= 101 people – (2021 Population Census: Average Household Size of 2.4 in Mid Levels East District)
Design flow	= 0.27 m ³ /person/day – (Private R2 in Table T-1 of GESF)
Sewage Generation rate	= 27.2 m ³ /day
Sewage Generation rate (15.4%)	= 4.2 m ³ /day
23. Ovolo Central (15.4%)⁽⁷⁾	
Number of hotel rooms	= 45 rooms
Assumed number of employees	= 14 employees – (assume 3 workers per 10 rooms)
Design Flow	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF J10 - Restaurants & Hotels)
Sewage Generation Rate	= 21.3 m ³ /day
24. The Centrium (15.4%)⁽⁷⁾	
Assumed Area	= 20860 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	= 1147 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 91.8 m ³ /day
Sewage Generation rate (15.4%)	= 14.1 m ³ /day
25. Winsome House (15.4%)⁽⁷⁾	
Assumed Area	= 4571 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	= 251 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 20.1 m ³ /day
Sewage Generation rate (15.4%)	= 3.1 m ³ /day
Retail	
Assumed Area	= 85 m ²
Assumed floor area per employee	= 28.6 m ² per worker – (refer to Table 8 of CIFSUS - Retail Trade)
Total number of employees	= 3 employees
Design flow for commercial employee	= 0.28 m ³ /employee/day – (refer to Table T-2 of GESF - J4)
Sewage Generation rate	= 0.8 m ³ /day
Sewage Generation rate (15.4%)	= 0.1 m ³ /day
F&B	
Assumed Area	= 85 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 4 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 6.8 m ³ /day
Sewage Generation rate (15.4%)	= 1.1 m ³ /day
26. Carfield Commercial Building (15.4%)⁽⁷⁾	
Assumed Area	= 2148 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	= 118 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 9.5 m ³ /day
Sewage Generation rate (15.4%)	= 1.5 m ³ /day
F&B	
Assumed Area	= 107 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.7 m ³ /day
Sewage Generation rate (15.4%)	= 1.3 m ³ /day
27. Harilela House (15.4%)⁽⁷⁾	
Assumed Area	= 1041 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	= 57 employees
Design flow for commercial employee	= 0.08 m ³ /employee/day – (refer to Table T-2 of GESF - J6)
Sewage Generation rate	= 4.6 m ³ /day
Sewage Generation rate (15.4%)	= 0.7 m ³ /day
F&B	
Assumed Area	= 104 m ²
Assumed floor area per employee	= 19.6 m ² per worker – (refer to Table 8 of CIFSUS - Restaurants)
Total number of employees	= 5 employees
Design flow for commercial employee	= 1.58 m ³ /employee/day – (refer to Table T-2 of GESF - J10)
Sewage Generation rate	= 8.4 m ³ /day
Sewage Generation rate (15.4%)	= 1.3 m ³ /day
Total Flow from Catchment D7	
Flow Rate (without Catchment Inflow Factor)	= 195.8 m ³ /day
Catchment Inflow Factor	= 1.0 Catchment Inflow Factor for Central in Table T-4 of GEFS
Flow Rate (with Catchment Inflow Factor)	= 195.8 m ³ /day

Note:

(7) It is observed that the existing sewerage pipes after Manhole number: FMH7031328 are separated into 2 flows (i.e. Pipe number: FWD7035600 (225mm) and Pipe number: FWD7035419 (225mm)). As such, discharge from upstream Catchment D7 is therefore assumed to be split into 18.5% generated sewage at each direction.

Table 4a Comparison of the Hydraulic Capacity of Existing Sewers for Sewerage generated from the Proposed Development and Surrounding Catchment Areas

Segment	Pipe Dia. (mm)	Pipe Length (m)	Gradient	Estimated Capacity (L/s)	ADWF (m ³ /day)	Contributing Population	Peaking Factor	Swimming Pool/Public Toilet (L/s)	Peak Flow from the Proposed Development and Catchment Areas (L/s)	Contribution from the Proposed Development and the Surrounding Catchment Areas (%)	Status
S1-S2	400	8.0	0.006	187	204.0	755	8	4.5	204.9	109.5%	Spill
S2-S3	400	19.7	0.170	982	347.8	1288	6	9.1	214.7	21.9%	OK
S3-S4	400	1.2	0.229	1141	347.8	1288	6	9.1	214.7	18.8%	OK
S4-S5	400	2.7	0.044	502	347.8	1288	6	9.1	214.7	42.8%	OK
S5-S6	600	10.0	0.004	434	2605.7	9651	5	17.8	350.0	80.7%	OK

Remarks: (1) The value of peaking factor = 5 is used for population 5,000-10,000 incl. stormwater allowance (refers to Table T-5 of GESF)
 (2) The value of peaking factor = 6 is used for population 1,000-5,000 incl. stormwater allowance (refers to Table T-5 of GESF)
 (3) The value of peaking factor = 8 is used for population <1,000 incl. stormwater allowance (refers to Table T-5 of GESF)

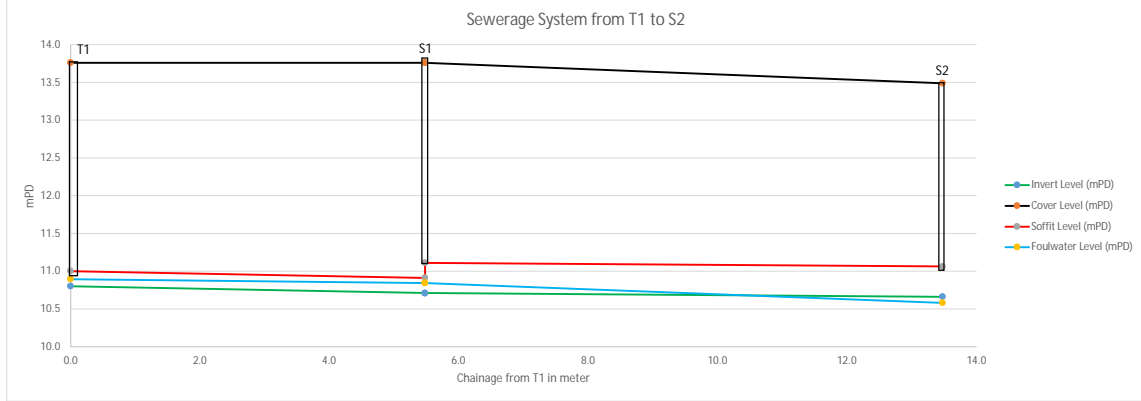
Table 4b Comparison of the Hydraulic Capacity of Proposed Sewers from the Terminal Manhole of the Proposed Development for Sewage generated from the Proposed Development

Segment	Pipe Dia. (mm)	Pipe Length (m)	Gradient	Estimated Capacity (L/s)	ADWF (m ³ /day)	Contributing Population	Peaking Factor	Swimming Pool/Public Toilet (L/s)	Peak Flow from the Proposed Development and Catchment Areas (L/s)	Contribution from the Proposed Development and the Surrounding Catchment Areas (%)	Status
T1-S1	200	5.5	0.016	53	177.8	659	8	4.5	21.0	39.4%	OK

Remarks: (1) The value of peaking factor = 8 is used for population <1,000 incl. stormwater allowance (refers to Table T-5 of GESF)

Table 5a Hydraulic Capacity of Existing Sewers at Tai Po Road - Tai Po Kau - surcharge condition

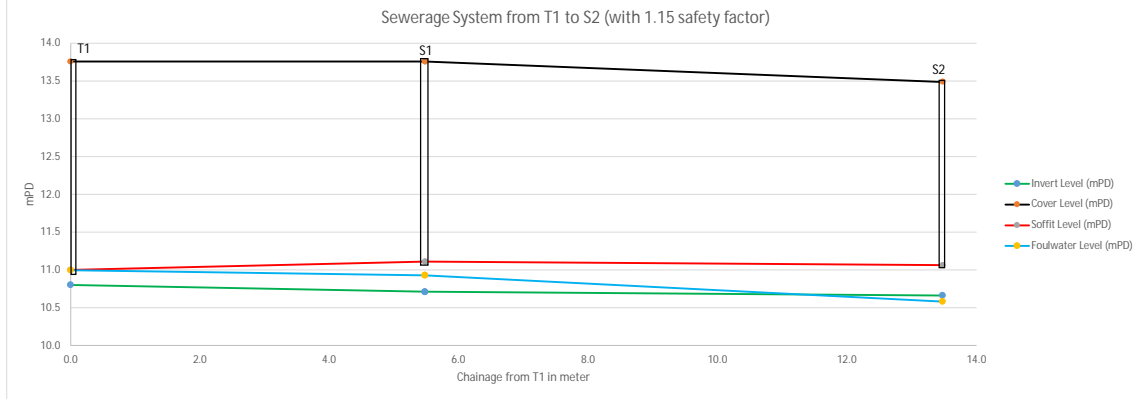
Segment	Manhole Reference	Manhole Reference	Pipe Dia.	Pipe Length	Invert Level 1	Invert Level 2	Foulwater Level 1	Foulwater Level 2	Cover Level 1	Cover Level 2	Freeboard 1	Freeboard 2	Friction Loss	Entry and Exit Loss	g	k _s	Required S _{hydraulic}	v	V	Area	Q	Delivered Flow rate	
			mm	m	mPD	mPD	mPD	mPD	mPD	mPD	m	m	m	m	m/s ²	m		m ³ /s	m/s	m ²	m ³ /s	L/s	
T1-S1		FMH7030011	200	5.5	10.80	10.71	10.89	10.84	13.76	13.76	2.87	2.92	0.02	0.03	9.81	0.0006	0.0031	0.000001	0.67	0.03	0.02	21.0	
S1-S2	FMH7030011	FMH7029798	400	8.0	10.71	10.66	10.84	10.58	13.76	13.49	2.92	2.91	0.06	0.20	9.81	0.0006	0.0075	0.000001	1.63	0.13	0.20	204.9	
S2-S3	FMH7029798	FMH7029849	400	19.7	10.18	6.84	10.58		13.49														



Note: 1. The invert level of sewers significantly drops at manhole S2. Sufficient freeboard is expected downstream S2. Therefore, Backwater calculation is conducted upstream manhole S2. Foulwater level at S2 is assumed to be: 6.84 (IL) + 0.400 (pipe dia.) = 10.58mPD as a conservative approach
 2. For this assessment, the Colebrook-White Equation has been used to calculate the friction loss. (Sewerage Manual section 5.2.1)
 3. According to DSD's Sewerage Manual (Part 1) section 5.2.2, Local losses are usually small in relation 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
 4. Comparing the Cover levels and foulwater levels at each manhole, the freeboards are found sufficient (>1m). Therefore, no unacceptable adverse sewerage impacts are identified.
 5. Friction loss is deduced by required hydraulic gradient x pipe length, while the local loss is deduced by the equation: $h_f = K \frac{V^2}{2g}$

Table 5b Hydraulic Capacity of Existing Sewers at alley between Wai Yip Street and Hoi Bun Road - 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	Required Peak Flow	
			mm	m	mPD	mPD	mPD	mPD	mPD	mPD	m	m	m	m	m/s ²	m		m ³ /s	m/s	m ²	m ³ /s	L/s	
T1-S1		FMH7030011	200	5.5	10.80	10.71	11.00	10.93	13.76	13.76	2.76	2.83	0.02	0.05	9.81	0.0006	0.0041	0.000001	0.77	0.03	0.02	24.2	
S1-S2	FMH7030011	FMH7029798	400	8.0	10.71	10.66	10.93	10.58	13.76	13.49	2.83	2.91	0.08	0.27	9.81	0.0006	0.0099	0.000001	1.87	0.13	0.24	235.6	
S2-S3	FMH7029798	FMH7029849	400	19.7	10.18	6.84	10.58		13.49														



Note: 1. The invert level of sewers significantly drops at manhole S2. Sufficient freeboard is expected downstream S2. Therefore, Backwater calculation is conducted upstream manhole S2. Foulwater level at S2 is assumed to be: 6.84 (IL) + 0.400 (pipe dia.) = 10.58mPD as a conservative approach
 2. For this assessment, the Colebrook-White Equation has been used to calculate the friction loss. (Sewerage Manual section 5.2.1)
 3. According to DSD's Sewerage Manual (Part 1) section 5.2.2, Local losses are usually small in relation 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
 4. Comparing the Cover levels and foulwater levels at each manhole, no overflowing is found (freeboard > 0m). Therefore, no unacceptable adverse sewerage impacts are identified.
 5. Friction loss is deduced by required hydraulic gradient x pipe length, while the local loss is deduced by the equation: $h_f = K \frac{V^2}{2g}$

Remarks: (1) g=gravitational acceleration; k_s=equivalent sand roughness; s=gradient; v=kinematic viscosity of water; V=mean velocity
 (2) Table 1a: The value of ks = 0.6mm is used for the calculation of slimed clayware sewer, poor condition (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: $v = \frac{2.51V}{\sqrt{(8gDs)} \log \left(\frac{k_s}{D} + \frac{2.51V}{D\sqrt{(2gDs)}} \right)}$