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Ratio Architecture & Construction Limited

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SUBMISSION REPORT
FOR
SEWERAGE IMPACT ASSESSMENT
FOR
TEMPORARY EATING PLACE AND BARBECUE SITE WITH ANCILLARY FACILITIES AND CARPARK FOR A PERIOD OF 3 YEARS AT VARIOUS LOTS IN D.D.17, TING KOK TAI PO, NEW TERRITORIES

Ratio Architecture & Construction Limited

Date : June 2026

[redacted]

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APPENDIX

1. Introduction

This proposal is prepared for the sewerage impact assessment for the temporary eating place and barbecue site with ancillary facilities and carpark for a period of 3 years at various lots in D.D.17, Ting Kok, Tai Po, New Territories.

2. Existing Sewerage Drainage Condition

According to sewerage drainage information as shown in the Geoinfo Map enclosed in **Appendix A,** there is no public sewerage network is available in the vicinity of the application site. As such, there is an existing septic tank and soakaway pit system under the toilet to collect all the effluent and wastewater generated from the applied use.

3. Proposed Septic Tank and Soakaway Pit System

The existing septic tank and soakaway pit system will be upgraded in accordance with Environmental Protection Department ("EPD")'s ProPECC PN1/23 under supervision of an Authorized Person/Registered Structural Engineer/Registered Professional Engineer. Details of the design of such septic tank and soakaway pit system are given at in **Appendix B** for general reference. The proposed septic tank and soakaway pit system will be under proper cleaning and maintenance at regular interval.

Discharge to the septic tank and soakaway pit system will be kept to a minimum in order not to unduly overload the septic tank and soakaway pit system while preventing pollution to the storm water systems. Any overflow pipes from the proposed septic tank to the stormwater drainage system is prohibited. Surface runoff from the application site will be discharged to proposed stormwater drainage system, which will be discharged to the sea eventually.

4. Proposed Grease Trap

All wastewater collected from a kitchen, including that from basins, sinks and floor drains, should be discharged via a grease trap capable of providing at least 20 minutes retention during peak flow. A separate grease trap should be provided for each kitchen. Details of the design of a typical grease trap are given at in **Appendix C** for general reference.

5. Assessment on Sewerage Impact

The proposed septic tank and soakaway pit system is more than 30m away from existing stream/river/sea, which will not impose water pollution to the existing stream/river/sea. The application site is not located within Water Gathering Ground (Water Gathering Ground Map from Water Supplies Department ("WSD") is shown in **Appendix D**) and is not located in environmentally sensitive zoning.

6. Conclusion

Existing septic tank and soakaway pit system will be upgraded in accordance with Environmental Protection Department ("EPD")'s ProPECC PN1/23 standard and grease trap will be proposed to collect waste from toilet and kitchen respectively. Given the assessment above, it is considered that the applied use will not create adverse sewerage impact on the application site and its adjacent area.

Appendix A

Sewerage Drainage Information Map

GEOINFO MAP
地理資訊地圖

前往地圖: https://www.map.gov.hk/gm/geo:22.4702,114.2208?z=1128

由「地理資訊地圖」網站提供: https://www.map.gov.hk

注意: 使用此地圖受「地理資訊地圖」的使用條款及條件以及知識產權告示約束。

GEOINFO MAP
地理資訊地圖

Drainage Pipes and Manholes 渠務管道及沙井

Legend 圖示

	Combined Manhole	沙井 (混合)
	Overflow (Combined)	溢流 (混合)
	Pipe (Combined)	渠管 (混合)
	Interface Valve Chamber	界面閥室
	Sewer Manhole	沙井 (污水)
	Oil / Petrol Interceptor	油污截流井
	Overflow (Sewer)	溢流 (污水)
	Pipe (Sewer)	渠管 (污水)
	Tapping Point (Sewer)	接駁點 (污水)
	Sewer Terminal Manhole	終端沙井 (污水)
	Catchpit	集水井
	Inlet	入水口
	Storm Water Manhole	沙井 (雨水)
	Outlet	出水口
	Pipe (Storm)	渠管 (雨水)
	Sand Trap	隔沙器

GEOINFO MAP
地理資訊地圖

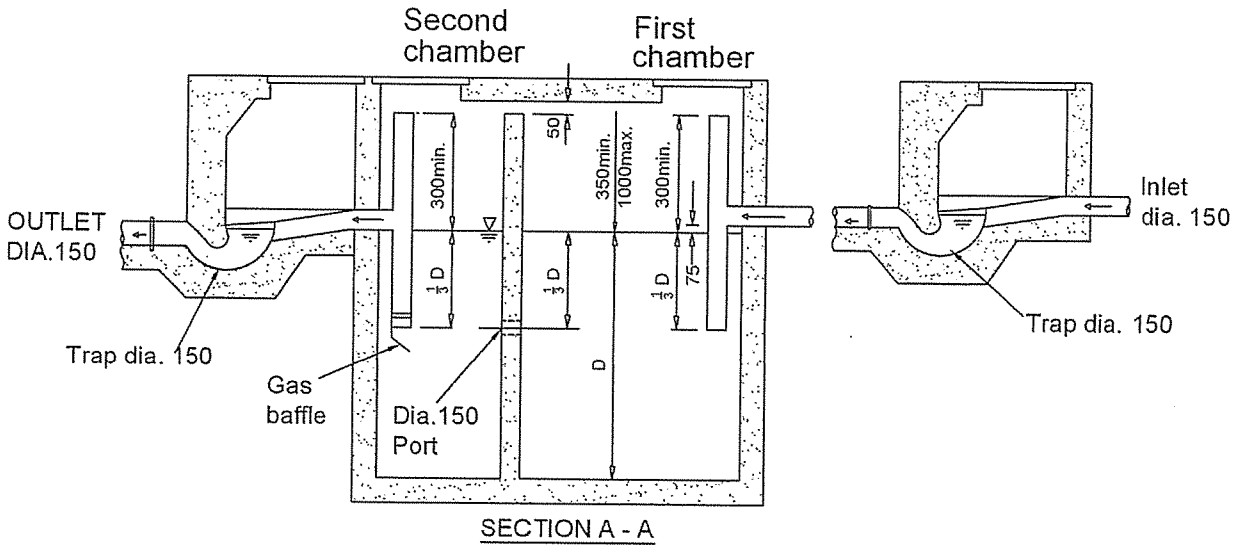
Drainage Pipes and Manholes 渠務管道及沙井

Legend 圖示

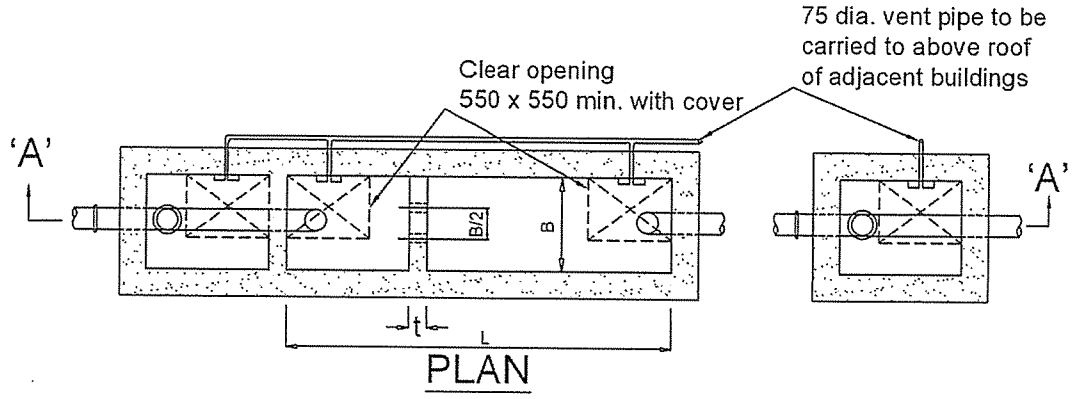
	Tapping Point (Storm)	接駁點 (雨水)
	Storm Water Terminal Manhole	終端沙井 (雨水)
	Tunnel Protection Zone (100m / 200m)	隧道保護區 (100 米 / 200 米)
	Tunnel Protection Zone (General Range)	隧道保護區 (一般範圍)
	Tunnel / Box Culvert (Sewer)	隧道 / 箱形暗渠 (污水)
	Tunnel / Box Culvert (Storm)	隧道 / 箱形暗渠 (雨水)

Appendix B

Design of Proposed Septic Tank and Soakaway Pit System



SECTION A - A



PLAN

Notes:-

1. All dimensions in millimetres (mm) unless otherwise stated.

2. Size
   (a) $4B \geq L > 3B$
   (b) $1800\ mm \geq D > 1200\ mm$
   (c) Ratio of volumes of first and second chambers = 2 : 1

3. Capacity (Subject to note 2)
   (a) Capacity, $C = (L - t) \times B \times D$
   (b) Not less than 2.3 m^3 but not more than 41 m^3
   (c) Not less than QN where N is the number of persons served and Q is the estimated ultimate per capita daily water consumption.
   (d) Surface water must not be connected to the tank
   (e) Tank to be desludged every 6 months

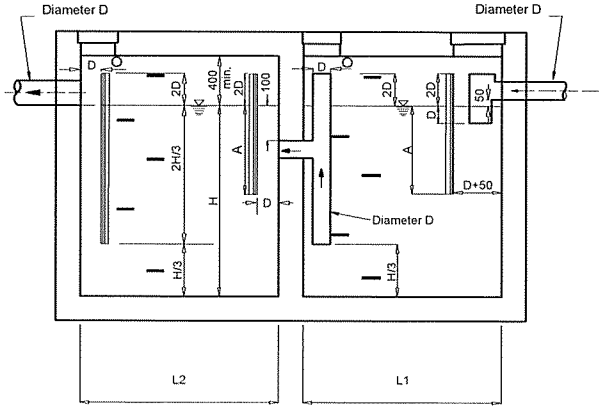
4. No overflow or bypass pipe is allowed.

5. Please refer to the booklet "Guidance Notes on Discharges from Village Houses" published by EPD for further guidelines on operation and maintenance of septic tank system.

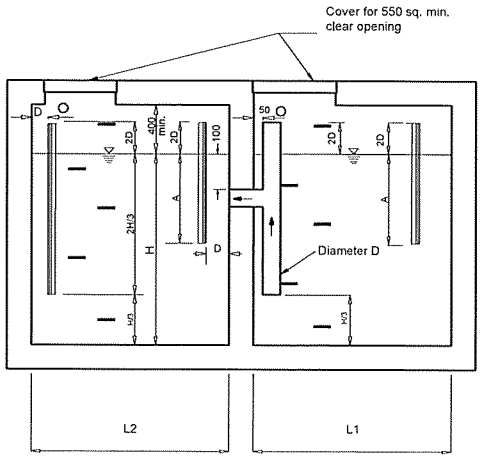
SEPTIC TANK	DRAWING NO.: EP 50/D1/5/01		
	DATE 1/23	SCALE NTS	ENVIRONMENTAL PROTECTION DEPARTMENT HONG KONG

Appendix C

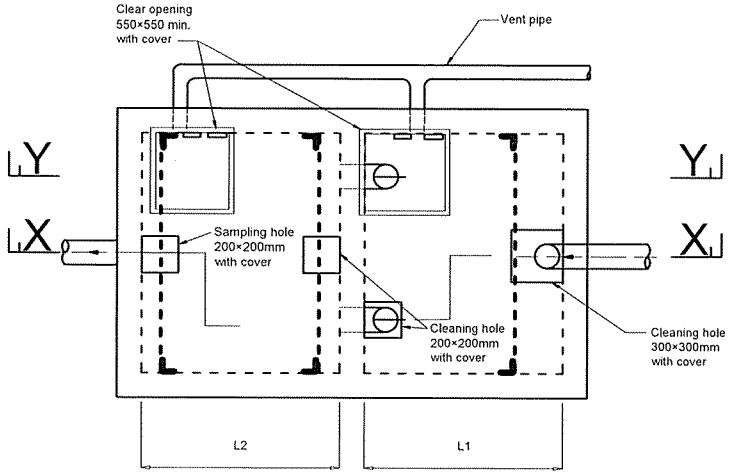
Design of Grease Trap



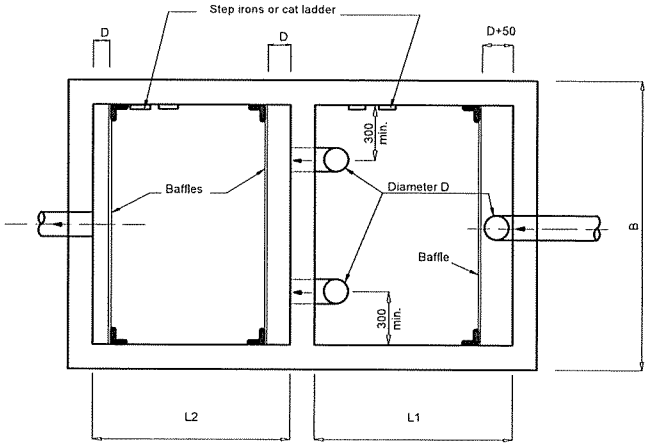
SECTION X-X



SECTION Y-Y



PLAN



SECTIONAL PLAN

TYPICAL DETAILS OF A GREASE TRAP

Notes:

1. All dimensions are in millimeters unless otherwise stated
2. Volume = $B (L_1 + L_2)H$
3. $750 \le B \le L_1 \le L_2 \le 1800$
4. $600 \le H \le 1200$
   For kitchen floor areas $\ge 50m^2$, H should be 900 minimum
5. $L_1+L_2 = L_T$
   $2.0 \le L_T / H \le 3.0$
   $1500 \le B \times L_T / H \le 4000$
6. A = H/2 but not greater than 450
7. No. of pipes through the middle partition wall should be such that the velocity inside the pipes is not greater than 0.2 m/s
8. Gradient of inlet pipe
   > 1 in 10
9. Horizontal pipe between the last drainage fitment and the grease trap should not be longer than 10m. Where this cannot be achieved, the gradient of the pipe should be increased and rodding eyes should also be provided
10. Minimum diameter of inlet pipes 100mm
11. Minimum diameter of vent pipes 75mm
12. Reinforced concrete grease traps should be designed as liquid retaining structure with maximum surface crack widths 0.2 mm
13. Grease traps should be easily accessible, allowing covers to be lifted and accumulated materials removed
14. A prominent sign should be erected adjacent to the grease trap to signify the location of the grease trap and should also contain the following information:
    a) overall depth of the grease trap
    b) liquid depth of the grease trap
    c) the grease trap needs cleaning when the top 200mm of liquid depth is occupied by grease
    d) warning signs and safety barriers should be erected around the manhole openings during cleaning and maintenance of the grease trap

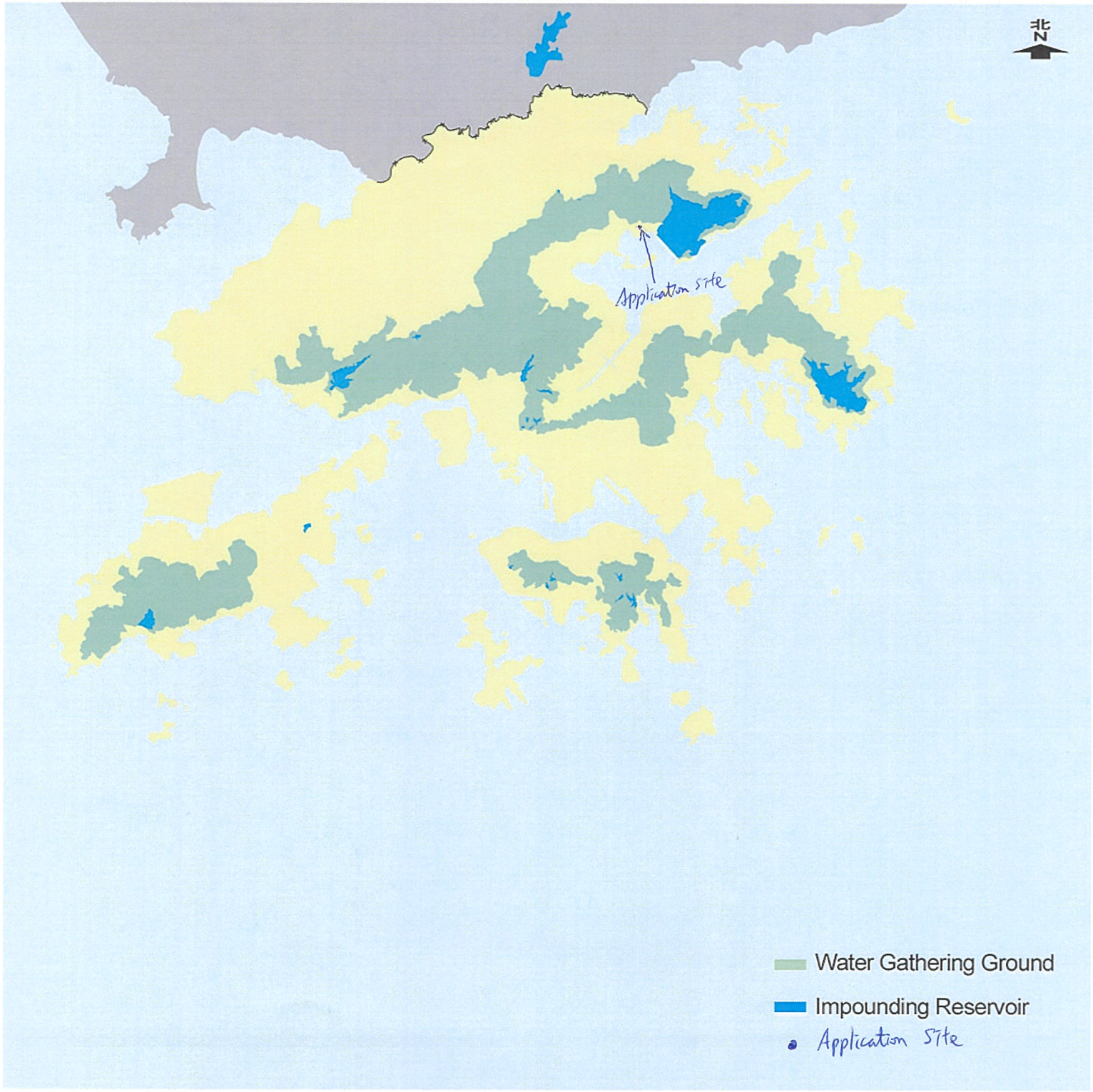
DRAWING NO.
EP50/L1/1/01A

DATE	SCALE
1/23	NTS

Environmental Protection Department Hong Kong

Appendix D

Water Gathering Ground Map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N
Application site
Water Gathering Ground
Impounding Reservoir
Application site