

Attachment G

Water Supply Impact Assessment

Application for Amendment of Plan under Section 12A of the Town Planning Ordinance (Cap. 131), to Rezone the Application Site from “Open Space” to “Residential (Group A)11”, for Proposed Residential Development with Social Welfare Facilities, Religious Institution, and Shop and Services at Sha Tin Town Lot 310 in D.D. 184, Sha Tin, New Territories
(Planning Application No. Y/ST/63)

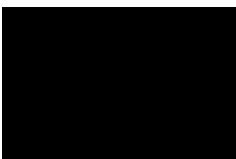
Application for Amendment of Plan under Section 12A of the Town Planning Ordinance (Cap. 131), to Rezone the Application Site from “Open Space” to “Residential (Group A) 11” at Sha Tin Town Lot 310 in D.D. 184, Sha Tin

Water Supply Impact Assessment

Draft | September 2026

This report takes into account the particular instructions and requirements of our client. It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 292635



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Existing and Proposed Fresh and Salt Water Networks

1. Introduction

1.1 Project Background

- 1.1.1.1 This Water Supply Impact Assessment (“WSIA”), appended to the Supporting Planning Statement, is prepared in support of the Planning Application under Section 12A of the Town Planning Ordinance (Cap. 131) for the Proposed Residential Development with ‘Social Welfare Facility’, ‘Religious Institution’ and ‘Shop and Services’ (“Proposed Amendment”) at Sha Tin Town Lot (STTL) 310 in D.D. 184, Sha Tin, New Territories (“the Application Site”).

1.2 Proposed Development

- 1.2.1.1 The Application Site has a site area of about 5,225 m² and it is proposed with residential development with clubhouse, reprovision of Hong Kong Bible Research and Education Centre, Residential Care Home for the Elderly, Parents/Relative Resource Centre and Shop and Services, as shown in **Appendix A**. Key development parameters of the Application Site are shown in **Table 1.1** below.

Table 1.1 Development Parameters

Description	Site Information
Site Location	Sha Tin Town Lot (STTL) 310 in D.D. 184, Sha Tin
Application Site Area	About 5,225 m ²
GFA	Domestic: 26,125 m ² Clubhouse: 1,050 m ² Reprovision of Hong Kong Bible Research and Education Centre: 2,900 m ² Residential Care Home for the Elderly (RCHE) (including 100 beds): 2,980 m ² Parents/Relative Resource Centre (PRC): 238 m ² Shop and Services: 562 m ²
No. of Units (About)	450
Anticipated Population (About)	Domestic: 1,125 Clubhouse ⁽¹⁾ : 35 Reprovision of Hong Kong Bible Research and Education Centre ⁽¹⁾ : 96 RCHE ⁽¹⁾ : 99 PRC ⁽¹⁾ : 8 Shop and Services ⁽²⁾ : 29

- (1) Community, Social & Personal Services = 3.3 employee per 100m² of GFA based on PlanD's Commercial and Industrial Floor Space Utilization Survey "CIFSUS" Table 8.

- (2) Retail Trade Services = 3.5 employee per 100m² of GFA based on PlanD's Commercial and Industrial Floor Space Utilization Survey "CIFSUS" Table 8.

1.3 Purpose of this Report

- 1.3.1.1 The aim of this Water Supply Impact Assessment (WSIA) Report is to review and update the water supply network arising from proposed development to assess the impact of the Proposed Development to the existing water supply network and to propose mitigation measures (if required).
- 1.3.1.2 The scope of the Project comprises comprehensive development private housing, social welfare facilities, a religious institution and shops in Sha Tin.
- 1.3.1.3 The WSIA Report shall be prepared, which should:
- (a) assess the anticipated water demands provisions requirements for the Project;
 - (b) assess the adequacy of water supply facilities according to WSD standard by carrying out inter-alia, water demand projection and hydraulic networks analysis. The assessment shall also take into account the water supply impact incurred by the existing and proposed developments in the vicinity of the Project;
 - (c) identify all the affected waterworks and utilities (whether within or outside the Project boundary) and where necessary, recommend and formulate feasible mitigation and protective measures such as diversion, reprovisioning and modification of waterworks and utilities to protect the affected facilities and minimise the disturbance to the normal operation of the affected facilities during construction stage;
 - (d) prepare preliminary layout plans, accompanied with sections, showing the general arrangement of the recommended waterworks and utility works (inclusive of the drainage and sewage proposals concluded in the DIA and SIA), mitigation and protective measures for those affected waterworks facilities and utilities.
- 1.3.1.4 Water Supply Impact Assessment Report detailing the assessment methodology, findings and recommendations shall be prepared. Agreement of the WSD for the proposed waterworks shall be sought.
- 1.3.1.5 This Sewerage Impact Assessment Report is structured as follows:
- Section 1 – Introduction**, introduces the Project Background, Objectives and Scope of the Project.
 - Section 2 – Methodology and Design Criteria**, presents the Methodology and Design Criteria.
 - Section 3 – Existing and Planned Water Supply System**, presents the Existing and Planned Water Supply System.
 - Section 4 – Water Demand Estimation**, presents the Water Demand Estimation.
 - Section 5 – Proposed Waterworks**, presents the Proposed Waterworks.
 - Section 6 – Construction, Operation and Maintenance of New Water Supply Facilities**, presents Construction, Operation and Maintenance of New Water Supply Facilities.
 - Section 7 – Conclusion**, summarises the Conclusions.

2. Methodology and Design Criteria

2.1 Methodology

2.1.1.1 The following methodology is adopted in carrying out the WSIA:

- Identify the scope of the development;
- Determine the water demand of the development;
- Identify the existing water supply system within and in the vicinity of the proposed development boundary;
- Examine the impact arising from new water demand from the proposed development on the existing source of supply and the system capacity; and
- Identify improvement and upgrading works.

2.2 Design Guidelines

2.2.1.1 The WSIA has been undertaken in accordance with the following standards, Code of Practice and Design Manuals:

- WSD's Manual of Mainlying Practice
- WSD's Departmental Instruction (DI) No. 1309;
- WSD's Civil Engineering Design Manual -Volume II
- Plumbing Engineering Services Design Guide (2002)
- EPD Guidelines for Estimating Sewage Flows (GESF) for Sewage Infrastructure Planning NO.: EPD/TP 1/05
- BS 6465-1:2006 "Sanitary Installation – Part 1: Code of Practice for the Design of Sanitary Facilities and Scales of Provision of Sanitary and Associated Appliances"
- Memo issued by AD/Dev of WSD dated 11 May 2006 and titled "Revised/New Planning Standards"
- WSD Circular Letter No. 1/2007 dated 27 March 2007 titled "Reduction of the Minimum Residual Pressure"
- WSD's Technical Specification on Grey Water Reuse and Rainwater Harvesting

2.3 Parameters and Assumptions

Unit Demands

2.3.1.1 The water demand for the proposed development has been estimated generally based on unit water demand in WSD's Departmental Instruction (DI) 1309 and the latest WSD planning standards.

2.3.1.2 The unit demands for some of the landuses used in the estimation of the freshwater and flushing water demands are obtained from EPD's "Guidelines for Estimating Sewage Flows for Sewage Infrastructure Planning" (GESF).

Table 2.1 Unit Demand

Development Type	Fresh Water Unit Demand (l/h/d)	Flushing Water Unit Demand (l/h/d)	Reference
Residential – R3	390	70	DI 1309
GIC	280	50	EPD's GESF
Clubhouse	280	50	EPD's GESF
Irrigation	7 l/d/m ²	/	Table 3-4 of WSD's Technical Specifications on Grey Water Reuse and Rainwater Harvesting

Water Treatment Works (WTW)

- 2.3.1.3 The design capacity for a WTW with Mean Daily Demand (MDD) greater than 100 Million Litre/Day (MLD) shall be 1.2 times MDD.

Fresh Water Service Reservoir (FWSR) Capacity

- 2.3.1.4 Fresh Water System (Secondary) – 75% and 85% of mean daily demand for interconnection and isolated supply zones respectively.
- 2.3.1.5 Flushing Water System – 25% of mean daily demand (if supplied by salt water) and 64% of mean daily demand (if supplied by treated sewage effluent), additional 5% of mean daily demand should be added if there are critical customers within the supply zone.

Peaking Factors for Distribution Mains

- 2.3.1.6 The fresh water and flushing water distribution system is designed under the following conditions in accordance with DI 1309:
- Demand for fresh water = 3 x MDD (Mean Daily Demand)
- Demand for flushing water = 2 x MDD (Mean Daily Demand)

Residual Head

- 2.3.1.7 The minimum residual heads at extremity of system is designed under the following conditions in accordance with DI 1309 and WSD Circular Letter No. 1/2007:
- Fresh Water System – 20m;
Flushing Water System – 15m.
- 2.3.1.8 The following pipe length factors have been applied to the length of water main (from mains record plan) to cater for bend losses:
- a) For urban areas = 1.2
 - b) For rural areas = 1.1
- 2.3.1.9 The pipeline head loss is calculated based on Hazen-Williams equation. The corresponding roughness coefficient is shown in **Table 3.2**.

Table 3.2: Hazen-Williams Roughness Coefficients

Water Main	Pipe Diameter (mm)	Roughness Coefficient
Fresh	< DN600	110
	≥ DN600	120
Salt	N/A	90

- 2.3.1.10 The design criteria for fresh water and flushing water systems are specified under DI 1309, with updates in memo issued by AD/Dev of WSD dated 11 May 2006 titled "Revised/New Planning Standards", and WSD Circular Letter No. 1/2007 dated 27 March 2007 titled "Reduction of the Minimum Residual Pressure". The aforesaid design criteria are tabulated in **Table 3.3** below.

Table 3.3: Design Criteria for Fresh Water Supply Systems for Proposed Development

Design Criteria	Fresh Water Supply	
Minimum Residual Head ¹ (m)	20	
Velocity limit of Distribution mains (m/s)	>DN700	≤ 3.0
	DN700- DN525	≤ 2.5
	DN450- DN375	≤ 2.0
	DN300- DN200	≤ 1.5
	All	≥ 0.9

Note:

- (1) Minimum residual pressure of 20-metre head only applies to development with plumbing proposals first submitted to the Water Authority on or after 1 April 2008.

3. Existing and Planned Water Supply System

3.1 Existing Fresh Water Supply System

- 3.1.1.1 With reference to WSD record plans, there is an existing 50mm dia. fresh water located on the eastern side of the Application Site, teeing off from the existing 600mm dia. Distribution main along Tai Chung Kiu Road.
- 3.1.1.2 The fresh water supply to the Application Site is from Sha Tin South Fresh Water Service Reservoir (SST FWSR) with the existing capacity of 31,288 m³/day, top water level at 96.8mPD and invert level at 89.2mPD.¹

3.2 Existing Flushing Water Supply System

- 3.2.1.1 With reference to WSD record plans, an existing 700 mm dia. salt water main is located along Tai Chung Kiu Road. An existing 90 mm diameter tee-off connection from the 700 mm diameter salt water main extends towards the eastern side of the Application Site.
- 3.2.1.2 The salt water supply to the Application Site is from Sha Tin West Salt Water Service Reservoir (STW SWSR) and To Shek Salt Water Service Reservoir (TS SWSR), with existing capacities of 5,000 m³/day and 4,401 m³/day, top water levels of 83.8mPD and 85.35mPD, and invert levels of 79.2mPD and 80.75mPD, respectively.

3.3 Planned Water Supply System

- 3.3.1.1 There is no planned water supply system in the vicinity of the Application Site.

¹ Information from WSD record plan.

4. Water Demand Estimation

4.1 Water Demand from the Proposed Development

- 4.1.1.1 The fresh water and flushing daily water demand for the proposed scheme is estimated to be approx. 611.07 m³/day and 97.65 m³/day respectively. The detailed calculations for water demand estimation are included in **Appendix B** and summarised in **Table 4.1**.

Table 4.1 Water Consumption Estimation for the Residential Development

<i>Proposed Development</i>	Fresh Water (m³/day) ⁽²⁾	Flushing Water (m³/day) ⁽²⁾
Residential	532.88	85.75
Clubhouse	9.80	1.75
Hong Kong Bible Research and Education Centre	26.88	4.80
RCHE	27.72	4.95
PRC	2.24	0.40
Irrigation	11.55	-
Total Daily Flow (m³/day)	611.07	97.65
Peaking Factor ⁽¹⁾	3	2
Total Peak Flow (m³/day)	1,833.20	195.30

Remarks:

- (1) Based on WSD DI no.1309, peak flow rates in distribution mains for: fresh water = 3 x mean daily demand; flushing water = 2 x mean daily demand.
- (2) Numbers are rounded to 2 decimal places.

- 4.1.1.2 The fresh water supply to the application site is from STS FWSR with the design capacity of 31,288m³/day. The estimated increase in water demand from the proposed development is approximately 1.46% of existing capacity of STS FWSR. The flushing water supply to the application site is from STW SWSR and TS SWSR with the capacity of 5,000 m³/day and 4,401 m³/day respectively. The estimated increase in water demand from the proposed development is approximately 0.31% of existing combined capacity of STW SWSR and TS SWSR. Thus, it is deemed that the water supply facilities have taken into account of the regional water demand increase.

Table 4.2 Water Supply Facilities Capacity Check

	Total Water Demand (m³/day)	Impact on STS FWSR	Impact on STS SWSR and TS SWSR
Fresh water	611.07	1.46%	-
Salt water	97.65	-	0.31%

4.2 Proposed Waterworks and Hydraulic Analysis

- 4.2.1.1 According to the calculation in **Appendix B**, the estimated demand for the fresh water of the proposed scheme will be 611.07 m³/day. The proposed freshwater lead-in main pipe size is 150mm dia., which gives the estimated maximum peak flow velocity of 1.49m/s that meets the WSD's requirement of not more than 1.5 m/s for distribution main.
- 4.2.1.2 According to the calculation in **Appendix B**, the estimated demand for the flushing water of the proposed scheme will be 97.65 m³/day. The proposed salt water lead-in main pipe size is 50mm dia., which gives the estimated maximum peak flow velocity of 1.15 m/s that meets the WSD's requirement of not more than 3m/s for distribution main.
- 4.2.1.3 Hydraulic analysis of proposed fresh water supply connection has been tabulated in **Table 4.3**.

Table 4.3 Hydraulic Analysis for Proposed Water Mains

	Item	Demand (MDD)	Peaking Factor	Peak Consumption	Water Mains Nominal Diameter	Flow Area	Flow Velocity
		(m ³ /d)		(m ³ /d)	mm	m ²	m/s
Proposed Scheme	Fresh water	611.07	3	1,833.2	150	0.015	1.42
	Salt water	97.65	2	195.3	50	0.002	1.15

5. Proposed Waterworks

5.1 Proposed Waterworks

- 5.1.1.1 The existing 50mm dia. fresh water main, which tees off from the existing 600mm dia. along Tai Chung Kiu Road is proposed to be upgraded to 150mm dia. to provide fresh water supply to the Application Site. Proposed water main layout drawing is in **Appendix C**.
- 5.1.1.2 It is proposed to tee off a 50mm dia. lead-in flushing water main from the existing 90mm dia. salt water main along the eastern side of the Application Site, as shown in **Appendix C**.
- 5.1.1.3 The detailed design of the proposed waterworks will ensure protection of the existing watermains. In case detailed design will require minor water mains diversion, WSD standards and guidelines will be followed.

5.2 Proposed Mitigation and Protective Measures

- 5.2.1.1 Prior to the commencement of excavation, the existence of utilities should be checked with their locations surveyed if possible. Trial pits may have to be excavated at suitable locations and non-destructive utility surveys carried out to ascertain the alignments and depths of the utilities.
- 5.2.1.2 Trench excavation may affect the existing land traffic. Relevant authorities such as TD, HyD, District Offices, etc. should be consulted on the temporary arrangement for carrying out the trench excavation works.
- 5.2.1.3 Adequate arrangement such as temporary decking across open trenches should be made for providing uninterrupted pedestrian access to all premises affected by the trench excavation works.
- 5.2.1.4 Contingency plan for the construction activities shall be prepared and site supervision by competent persons is needed.
- 5.2.1.5 Due care should be taken during detailed design and construction to protect existing waterworks, so as to maintain original working condition and full operation at all times.

6. Construction, Operation and Maintenance of New Water Supply Facilities

- 6.1.1.1 The proposed waterworks within the development will be constructed, operated and maintained by the future management agent.
- 6.1.1.2 The proposed waterworks mentioned in **Section 5.1** will be undertaken by the project proponent. The water supply system outside the development boundary will be handed over to WSD upon completion of construction works for future maintenance as part of the public network.

7. Conclusion

- 7.1.1.1 The fresh water supply to the Site is from Sha Tin South Fresh Water Services Reservoir (STS FWSR) with the capacity of 31,288 m³/day. The estimated water demand from the proposed development is approximately 1.46% of existing capacity of STS FWSR. The flushing water supply to the Site is from Sha Tin West Salt Water Services Reservoir (STW SWSR) and To Shek Salt Water Service Reservoir (TS SWSR) with the capacities of 5,000m³/day and 4,401m³/day respectively. The estimated flushing water demand from the proposed development is approximately 0.31% of existing capacity of STW SWSR and TS SWSR. Thus, it is anticipated that there is no adverse impact on the existing and planned water supply system arising the proposed development.
- 7.1.1.2 Water supply for the proposed development is proposed to be provided via a 150 mm dia. lead-in fresh water main, upgraded from the existing 50mm dia. fresh water main, connecting to the existing 600 mm diameter fresh water main along Tai Chung Kiu Road, and a 50mm dia. lead-in salt water main teeing off from the existing 90mm dia. salt water main along the eastern side of the Application Site. Hydraulic assessments for both fresh water and flushing water supplies have been undertaken, and the results indicate that the existing water supply system has sufficient capacity to cater for the proposed development.
- 7.1.1.3 The additional water demand is insignificant with the capacity of the water supply system, and therefore no adverse impact on the existing and planned water supply system is anticipated.

Appendix A

Master Layout Plan



NOTES:
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KEY PLAN SCALE 1:2000

01	SECOND SUBMISSION	FH	07/26
-	FIRST SUBMISSION	FH	09/25
Rev	Description	By	Date

Consultant

ARUP

Contract No. and Title

SHATIN TOWN LOT 310

Drawing Title

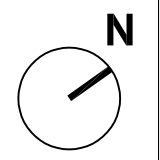
MASTER LAYOUT PLAN

Drawing no.	299123/22/S12A_1000 (COLOUR)			Rev.	01
Drawn	Date	Checked	FY	Approved	FH
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KEY PLAN SCALE 1:2000

01	SECOND SUBMISSION	FH	07/26
-	FIRST SUBMISSION	FH	09/25
Rev	Description	By	Date

Consultant

ARUP

Contract No. and Title

SHATIN TOWN LOT 310

Drawing Title

GROUND FLOOR PLAN

Drawing no. 299123/22/S12A_1001 (2)			Rev. 01
Drawn RH	Date 07/26	Checked FY	Approved FH
Scale 1: 400		Status	

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Appendix B

Water Demand Estimation

		Job No.	Sheet No.	Rev.
		299123	1	1
		Member/Location		
		Drg. Ref.		
Job Title	Application for Amendment of Plan under Section 12A of the Town Planning Ordinance (Cap. 131), to Rezone the Application Site from "Open Spcae" to "Residential (Group A) 11" at Sha Tin Town Lot 310 in D.D. 84, Sha Tin			
Calculation	Water Consumption Estimation from the Proposed Development			
Made by		MP	Date	09/2026
			Chd.	JW

Calculation for Water Consumption Estimation

Proposed Development

Building Type	Fresh Water	Flushing Water
Residential		
Population (including 100 beds from RCHE)	1,225	
Unit flow factor (m ³ /person/day) ²⁾	0.39	0.07
Service Trade (m ³ /person/day) ²⁾	0.045	0
Daily Flow (m³/day)	532.88	85.75
Peak Flow Factor ¹⁾	3	2
Peak Flow (m³/day)	1,598.63	171.50
Clubhouse		
Total GFA, m ²	1,050	
Employee per GEF (in 100 m ²) ⁴⁾	3.3	
Employee population	35	
Unit flow factor (m ³ /person/day) ³⁾	0.28	0.05
Daily Flow (m³/day)	9.80	1.75
Peak Flow Factor ¹⁾	3	2
Peak Flow (m³/day)	29.40	3.50
Hong Kong Bible Research and Education Centre		
Total GFA, m ²	2,900	
Employee per GEF (in 100 m ²) ⁴⁾	3.3	
Employee population	96	
Unit flow factor (m ³ /person/day) ³⁾	0.28	0.05
Daily Flow (m³/day)	26.88	4.80
Peak Flow Factor ¹⁾	3	2
Peak Flow (m³/day)	80.64	9.60
Residential Care Home for the Elderly		
Total GFA, m ²	2,980	
Employee per GEF (in 100 m ²) ⁴⁾	3.3	
Employee population	99	
Unit flow factor (m ³ /person/day) ³⁾	0.28	0.05
Daily Flow (m³/day)	27.72	4.95
Peak Flow Factor ¹⁾	3	2
Peak Flow (m³/day)	83.16	9.90
Parents/Relative Resource Centre		
Total GFA, m ²	238	
Employee per GEF (in 100 m ²) ⁴⁾	3.3	
Employee population	8	
Unit flow factor (m ³ /person/day) ³⁾	0.28	0.05
Daily Flow (m³/day)	2.24	0.40
Peak Flow Factor ¹⁾	3	2
Peak Flow (m³/day)	6.72	0.80
Irrigation		
Total Greening Area ⁶⁾ , m ²	1,650	
Unit flow factor (L/m ² /day) ⁵⁾	7	/
Daily Flow (m³/day)	11.55	/
Peak Flow Factor ¹⁾	3	2
Peak Flow (m³/day)	34.65	/
Total Daily Flow (m³/day)	611.07	97.65
Total Peak Flow (m³/day)	1,833.20	195.30

Remarks:

1) Based on WSD DI no.1309, peak flow rates in distribution mains for:

Fresh water = 3 x mean daily demand
Salt water = 2 x mean daily demand

2) Mean daily unit demand given in Table 1 of WSD DI no.1309:

	Fresh Water (l/h/d)	Flushing Water (l/h/d)
Residential - R3	390	70
Service Trade - Shatin	45	0
GIC	280	50

3) Based on Table T-2 of EPD's GESF, UFF of 0.20 for "Community, Social & Personal Services" + 0.08 for "Commercial Employee" are adopted.

4) Based on PlanD's Commercial and Industrial Floor Space Utilization Survey "CIFSUS" Table 8, Community, Social & Personal Services = 3.3 employee per 100m2 of GFA.

5) Assume Unit flow factor = 7 (L/m²/day) for greening irrigation

6) Based on the preliminary landscape design, the greening ration is 30% of the total site area.

ARUP		Job No.		Sheet No.		Rev.	
		292635		2		1	
Job Title Application for Amendment of Plan under Section 12A of the Town Planning Ordinance (Cap. 131), to Rezone the Application Site from "Open Spcae" to "Residential (Group A) 11" at Sha Tin Town Lot 310 in D.D. 84, Sha Tin		Member/Location					
		Drg. Ref.					
		Made by MP		Date 09/2026		Chd. NP	
Calculation		Water Consumption Estimation from the Proposed Development					

Design of Fresh Water Distribution Main from Connection Point of Planned Fresh Water Supply System to Proposed Development

	Item	Demand (MDD)	Peaking Factor	Peak Consumption	Water Mains Nominal	Internal Diameter	Flow Area	Flow Velocity
		(m³/d)		(m³/d)	mm	mm	m²	m/s
Proposed Scheme	Fresh water	611.07	3	1,833.20	150	138	0.015	1.419
	Flushing water	97.65	2	195.30	50	50	0.002	1.151

Water supply facilities capacity check

	Item	Total Water Demand (m³/day)	Impact on Sha Tin South FWSR ⁽¹⁾	Impact on Sha Tin West and To Shek SWSR ⁽²⁾
Proposed Scheme	Fresh water	611.07	1.46%	-
	Flushing water	97.65	-	0.31%

Sha Tin South Fresh Water Service Reservoir
31,288 m³/day

Sha Tin West Salt Water Service Reservoir + To Shek Salt Water Service Reservoir
9,401 m³/day

Remark:

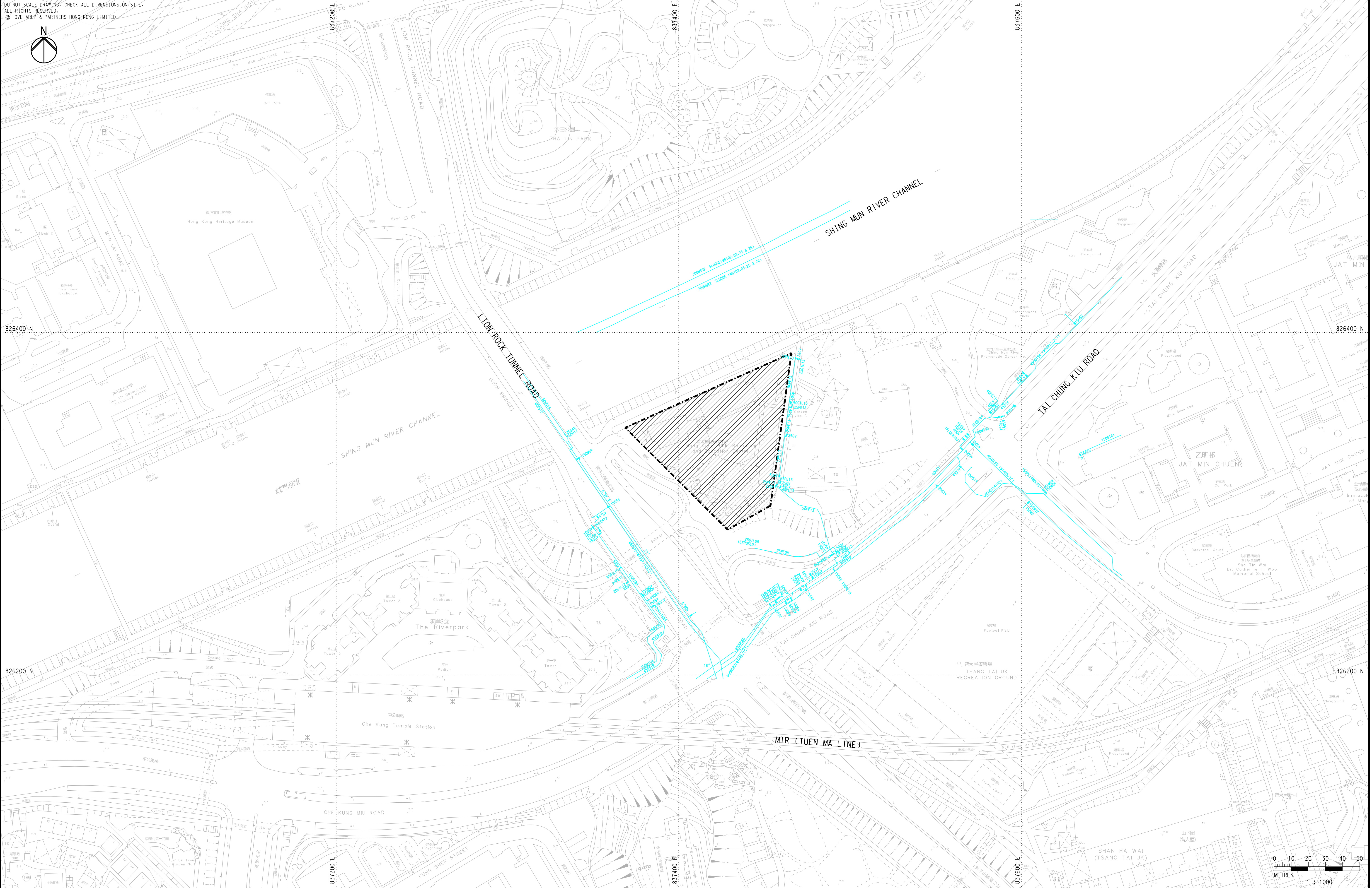
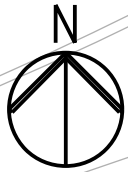
1) Based on WSD DI no.1309, the storage capacity for fresh water service reservoir is: Capacity = 75% of MDD (Interconnected supply zone)

2) Based on WSD DI no.1309, the storage capacity for flushing water service reservoir is: Capacity = 25% of MDD (salt water) + 5% of MDD

Appendix C

Existing and Proposed Fresh and Salt Water Networks

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LEGEND



PROPOSED DEVELOPMENT



EXISTING FRESH WATER SYSTEM

Job Title

APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A OF THE TOWN PLANNING ORDINANCE (CAP. 131), TO REZONE THE APPLICATION SITE FROM "OPEN SPACE" TO "RESIDENTIAL (GROUP A) 11" AT SHA TIN TOWN LOT 310 IN D.D. 184, SHA TIN

Drawing Title

EXISTING WATER SUPPLY NETWORK - FRESH WATER SYSTEM

Drawing Status

SUBMISSION

Scale 1:1000 @ A1

Drn. RY Date 09/26 Chd. JW Passed KK

Job No.

299123

Drawing No.

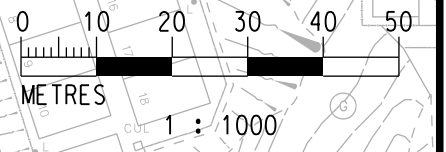
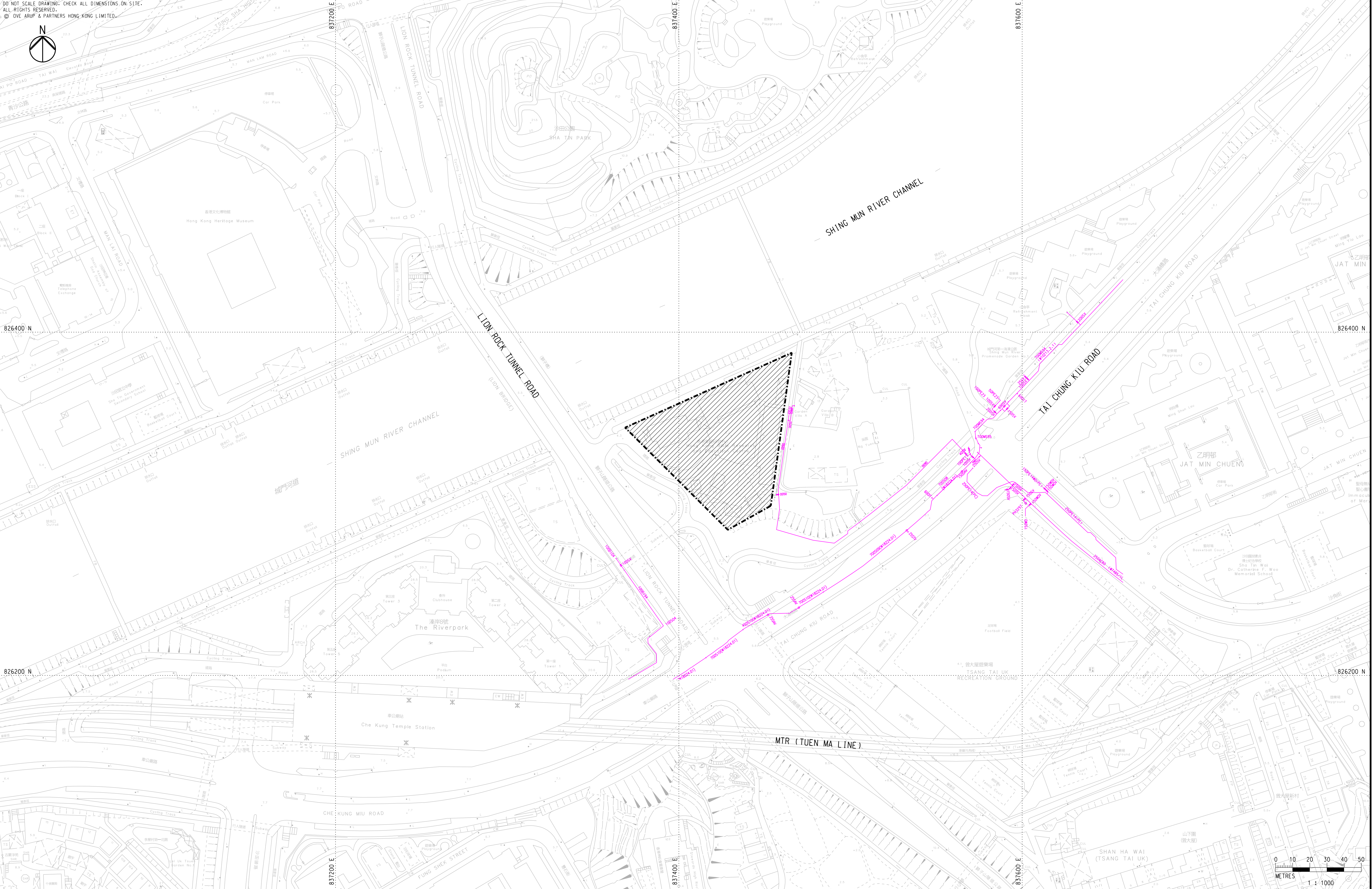
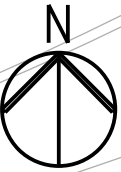
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LEGEND



PROPOSED DEVELOPMENT



EXISTING SALT WATER SYSTEM

Job Title

APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A OF THE TOWN PLANNING ORDINANCE (CAP. 131), TO REZONE THE APPLICATION SITE FROM "OPEN SPACE" TO "RESIDENTIAL (GROUP A) 11" AT SHA TIN TOWN LOT 310 IN D.D. 184, SHA TIN

Drawing Title

EXISTING WATER SUPPLY NETWORK - SALT WATER SYSTEM

Drawing Status

SUBMISSION

ARUP

Scale 1:1000 @ A1

Drn. RY Date 09/26 Chd. JW Passed KK

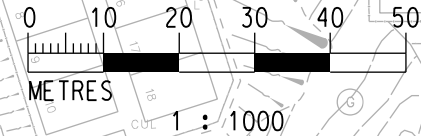
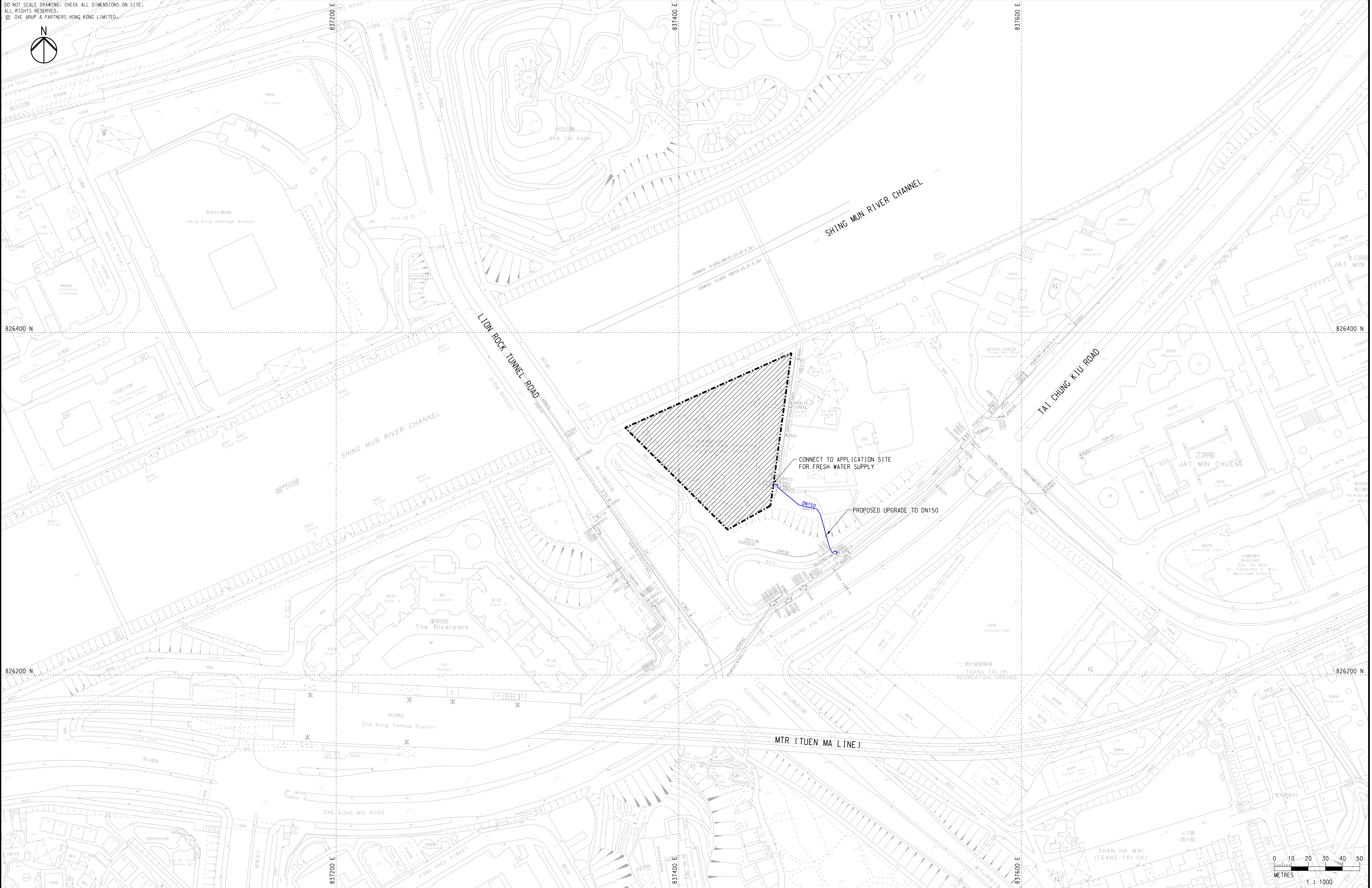
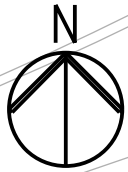
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Drawing No. C/WIA/002

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A	09/26	JP	FIRST ISSUE

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LEGEND



PROPOSED DEVELOPMENT



EXISTING FRESH WATER SYSTEM



PROPOSED FRESH WATER SYSTEM

Job Title

APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A OF THE TOWN PLANNING ORDINANCE (CAP. 131), TO REZONE THE APPLICATION SITE FROM "OPEN SPACE" TO "RESIDENTIAL (GROUP A) 11" AT SHA TIN TOWN LOT 310 IN D.D. 184, SHA TIN

Drawing Title

PROPOSED WATER SUPPLY NETWORK - FRESH WATER SYSTEM

Drawing Status

SUBMISSION

ARUP

Scale 1:1000 @ A1

Drn. RY Date 09/26 Chd. JW Passed KK

Job No.

299123

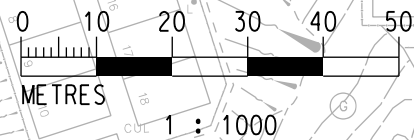
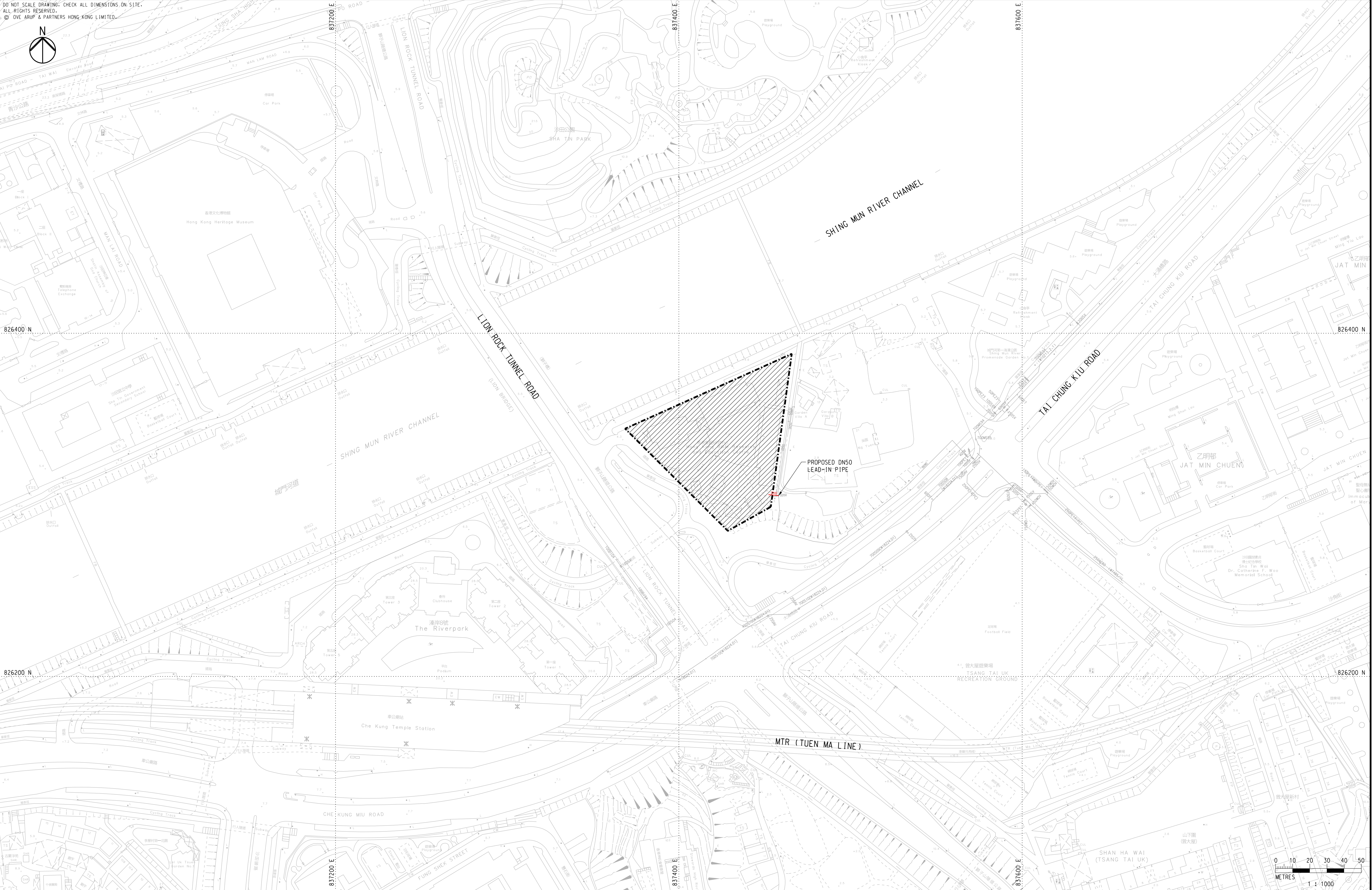
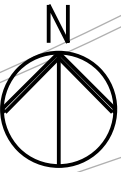
Drawing No.

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LEGEND



PROPOSED DEVELOPMENT



EXISTING SALT WATER SYSTEM



PROPOSED SALT WATER SYSTEM

Job Title

APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A OF THE TOWN PLANNING ORDINANCE (CAP. 131), TO REZONE THE APPLICATION SITE FROM "OPEN SPACE" TO "RESIDENTIAL (GROUP A) 11" AT SHA TIN TOWN LOT 310 IN D.D. 184, SHA TIN

Drawing Title

PROPOSED WATER SUPPLY NETWORK - SALT WATER SYSTEM

Drawing Status

SUBMISSION

ARUP

Scale 1:1000 @ A1

Drn. RY Date 09/26 Chd. JW Passed KK

Job No.

299123

Drawing No.

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