

Annex 1

Fire Service Installations Proposal

1. GENERAL

- 1.1 FIRE SERVICE INSTALLATIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE CODES OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT AND INSPECTION, TESTING AND MAINTENANCE OF INSTALLATIONS AND EQUIPMENT 2022 (COP 2022), FSD CIRCULAR LETTERS AND THE HONG KONG WATERWORKS STANDARD REQUIREMENTS. [SEP 2022]
- 1.2 ALL TUBES AND FITTINGS SHALL BE G.M.S. TO BS1387 MEDIUM GRADE WHERE PIPEWORK UP TO Ø150mm.
- 1.3 ALL TUBES AND FITTINGS SHALL BE DUCTILE IRON TO BS EN545 K12 WHERE PIPEWORK ABOVE Ø150mm.
- 1.4 ALL DRAIN PIPES SHALL BE DISCHARGED TO A CONSPICUOUS POSITION WITHOUT THE POSSIBILITY OF BEING SUBMERGED.
- 1.5 ALL PUDDLE FLANGES SHALL BE MADE OF DUCTILE IRON
- 1.6 SMOKE EXTRACTION SYSTEM(S) SHALL NOT BE PROVIDED AS THE AGGREGATE AREA OF OPERABLE WINDOW OF STRUCTURE EXCEEDS 6.25% OF THE FLOOR AREA OF THE COMPARTMENT.
- 1.7 VENTILATION/AIR CONDITIONING SYSTEM NOT TO BE PROVIDED.

2. AUTOMATIC SPRINKLER SYSTEM

- 2.1 AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LPC RULES FOR AUTOMATIC SPRINKLER INSTALLATIONS INCORPORATING BS EN 12845: 2015 (INCLUDING TECHNICAL BULLETINS, NOTES, COMMENTAR AND RECOMMENDATIONS) AND FSD CIRCULAR LETTER NO. 5/2020. THE CLASSIFICATION OF THE OCCUPANCIES WILL BE ORDINARY HAZARD GROUP III.
- 2.2 ONE 135m³ SPRINKLER WATER TANK WILL BE PROVIDED AS INDICATED ON PLAN. THE TOWN MAIN WATER SUPPLY WILL BE FED FROM SINGLE END.
- 2.3 TWO SPRINKLER PUMPS (DUTY/STANDBY) AND ONE JOCKEY PUMP SHALL BE PROVIDED IN FS PUMP ROOM LOCATED AT EXTERNAL AREA.
- 2.4 SPRINKLER CONTROL VALVE SET AND SPRINKLER INLET SHALL BE PROVIDED AS INDICATED ON PLAN.
- 2.5 A TEST VALVE SHALL BE PROVIDED FOR EACH ZONE OF SPRINKLER PIPE. THIS VALVE SHALL BE AT A CONSPICUOUS POSITION THAT WATER CAN BE DRAINED AWAY EASILY.
- 2.6 ALL SUBSIDIARY STOP VALVES TO BE ELECTRIC MONITORING TYPE.
- 2.7 ALL ELECTRIC TYPE VALVES SHOULD GIVE VISUAL SIGNALS TO FIRE SERVICE MAIN SUPERVISORY CONTROL PANEL TO INDICATE THE STATUS (OPEN/CLOSE) OF THE VALVES.
- 2.8 SECONDARY ELECTRICITY SUPPLY DIRECTLY TEE OFF BEFORE CLP'S INCOMING MAIN SWITCH SHALL BE PROVIDED FOR THE SPRINKLER PUMPS.
- 2.9 THE SPRINKLER SYSTEM DESIGN IS BASED ON THE FOLLOWINGS:
 HAZARD CLASS : ORDINARY HAZARD GROUP III
 TYPE OF STORAGE : POST-PALLET (ST2)
 STORAGE CATEGORY : CATEGORY I
 MAXIMUM STORAGE HEIGHT : 3.5m
 SPRINKLER PROTECTION : CEILING PROTECTION ONLY
 THE MAXIMUM STORAGE AREAS SHALL BE 50m² FOR SINGLE BLOCK
 THE MINIMUM CLEARANCE AROUND EACH SINGLE STORAGE CLOACK : 2.4m

3. FIRE DETECTOR SYSTEM

- 3.1 THE STAND-ALONE FIRE DETECTOR SHALL BE PROVIDED IN ACCORDANCE WITH THE "STAND-ALONE FIRE DETECTOR GENERAL GUIDELINES ON PURCHASE, INSTALLATION & MAINTENANCE [SEP 2021]"
- 3.2 WHERE TWO OR MORE STAND-ALONE FIRE DETECTORS ARE INSTALLED IN AN ENCLOSED STRUCTURE, ALL DETECTORS SHALL BE INTERCONNECTED (EITHER WIRED OR WIRELESSLY) SUCH THAT WHEN ONE OF THE DETECTORS IS TRIGGERED, ALL CONNECTED DETECTORS SHALL SOUND AN ALARM SIMULTANEOUSLY.

4. EMERGENCY LIGHTING

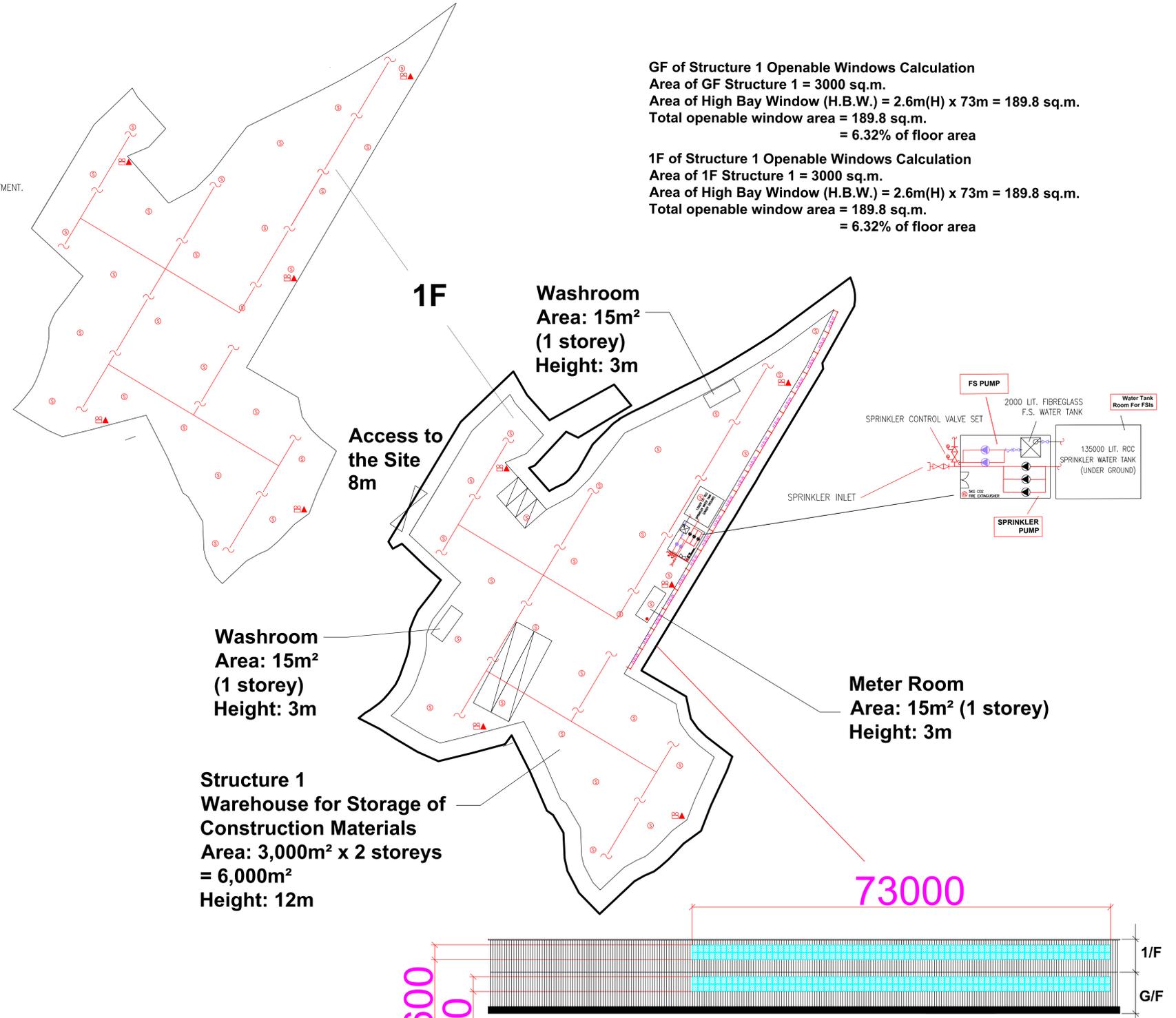
- 4.1 EMERGENCY LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH 'BS 5266-1 :2016 AND BS EN 1838 :2013", AND THE FSD CIRCULAR LETTER NO. 4/2021, COVERING ALL AREA. EMERGENCY LIGHTINGS SHALL BE BACKED UP BY BUILT-IN BATTERY AND CAPABLE OF MAINTAINING FUNCTION OF NOT LESS THAN 2 HOURS IN CASE OF POWER FAILURE

5. EXIT SIGN

- 5.1 ALL EXIT SIGNS/DIRECTIONAL EXIT SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH BS 5266-1 :2016 AND FSD CIRCULAR LETTER NO. 5/2008, FOR THE BUILDING. EXIT SIGNS/DIRECTIONAL EXIT SIGNS SHALL BE BACKED UP BY BUILT-IN BATTERY AND CAPABLE OF MAINTAINING FUNCTION OF NOT LESS THAN 2 HOURS IN CASE OF POWER FAILURE.

6. PORTABLE APPLIANCES

- 6.1 PORTABLE HAND OPERATED APPLIANCES SHALL BE PROVIDED AS INDICATED ON PLAN.
- 6.2 A SUITABLE TYPE OF PORTABLE FIRE EXTINGUISHER SHALL BE PROVIDED IN LOCATIONS WHERE EASILY ACCESSIBLE BY PERSON IN CHARGE WHERE THE NO. OF F.E. SHALL BE PROVIDED ACCORDING TO THE FORMULA = [STORAGE AREA] (M²) X (0.003]
- 6.3 A 20-35 KG WHEELED TYPE DRY CHEMICAL FIRE EXTINGUISHER IN EVERY 500M² ON EVERY FLOOR OF THE PREMISES AND SHALL BE PROVIDED TO ENSURE THAT EVERY PART OF THE PREMISES CAN BE REACHED BY WHEELED TYPE DRY CHEMICAL FIRE EXTINGUISHER FROM A DISTANCE OF NOT MORE THAN 30M



GF of Structure 1 Openable Windows Calculation
 Area of GF Structure 1 = 3000 sq.m.
 Area of High Bay Window (H.B.W.) = 2.6m(H) x 73m = 189.8 sq.m.
 Total openable window area = 189.8 sq.m.
 = 6.32% of floor area

1F of Structure 1 Openable Windows Calculation
 Area of 1F Structure 1 = 3000 sq.m.
 Area of High Bay Window (H.B.W.) = 2.6m(H) x 73m = 189.8 sq.m.
 Total openable window area = 189.8 sq.m.
 = 6.32% of floor area

LEGEND

- | | | | | | | | | | | | |
|---|--|------|-----------------------------|---|-----------------------------|---|----------------------------------|---|--------------------------|---|--------------------------------|
| ⊙ | STAND ALONE BATTERY TYPE SMOKE DETECTOR | ⊙ | EMERGENCY LIGHT | ⊙ | SPRINKLER CONTROL VALVE SET | ⊙ | PUMP SET | ⊙ | PRESSURE GAUGE | ⊙ | SUBSIDIARY VALVE / FLOW SWITCH |
| ▲ | 25KG WHEELED TYPE DRY CHEMICAL FIRE EXTINGUISHER | EXIT | EXIT SIGN | ⊙ | GATE VALVE | ⊙ | Y-TYPE STRAINER | ⊙ | SPRINKLER HEAD (ON PLAN) | ⊙ | 5KG CO2 FIRE EXTINGUISHER |
| ⊙ | NON-RETURN VALVE | ⊙ | GATE TYPE (With MONITORING) | ⊙ | SPRINKLER INLET | ● | 5KG DRY POWDER FIRE EXTINGUISHER | | | | |

Section drawing of window opening for the structure (1)

PROJECT : Proposed Temporary Warehouse for Storage of Construction Materials for a Period of 3 Years at Lots 1445SBs2, 1445SBRP, 1489, 1490, 1492 & 1494 in DD76	DRAWING TITLE : F.S. Notes, Legend, Fire Service Installation Layout Plan	ARCHITECT :	CONSULTANT :	FIRE SERVICE CONTRACTOR : Century Fire Service Engineering Co., Ltd.	NAME : C.K.NG	DATE : 23 Dec 2025	DRAWING NO : FS-01	REV. : 0
					DRAWN BY :	SCALE : 1 : 300 (A0)		
					CHECKED BY :	SOURCE : B.O.O. Ref. BD F.S.D. Ref. FP		
					APPROVED BY :			
REV	DESCRIPTION	DATE						

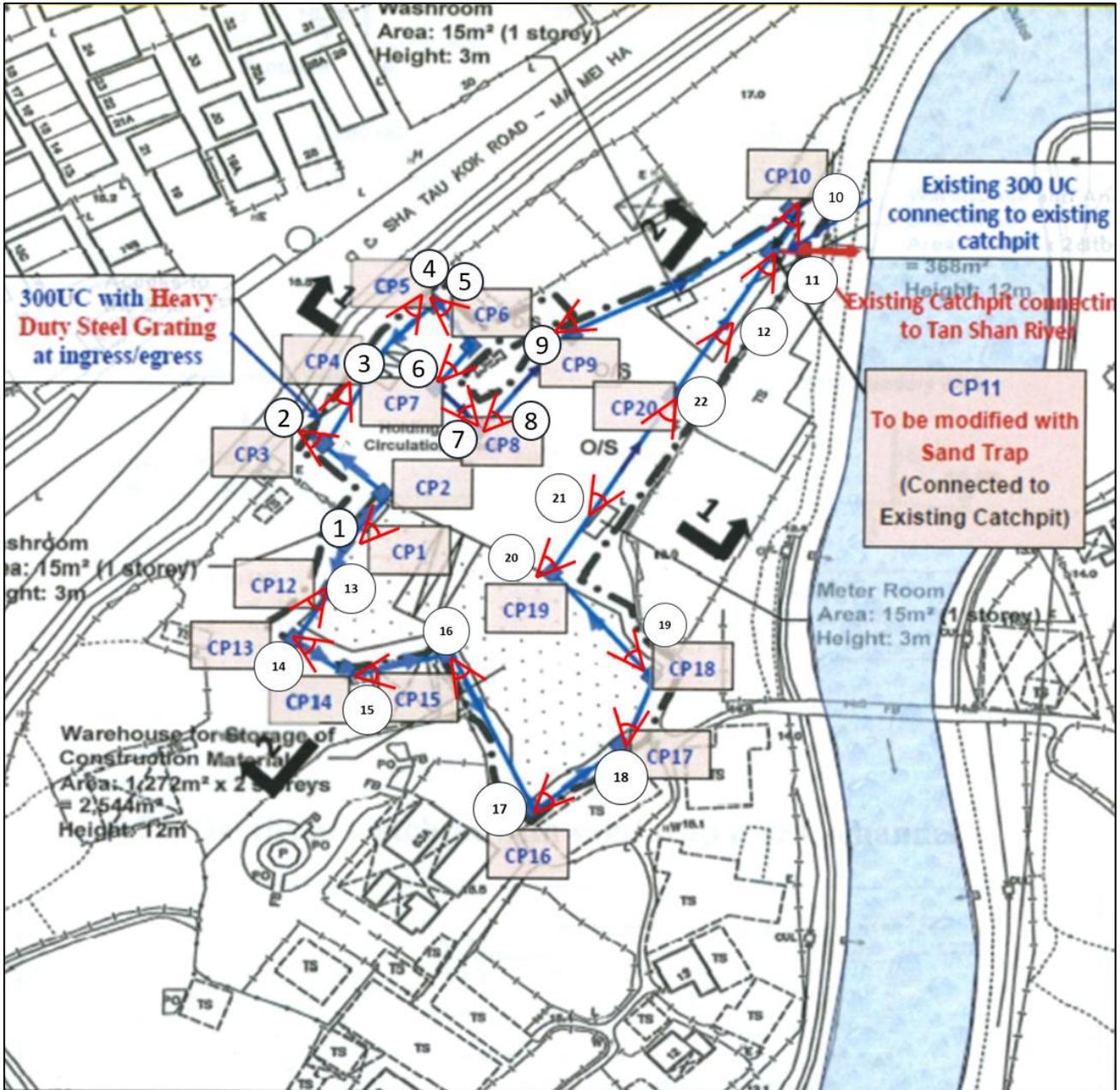
Annex 2

Condition Records of Existing Drainage Facilities

Condition Records of the Implemented Drainage Facilities

(Application No.: A/NE-LYT/868)

Approved Drainage Plan under Application No. A/NE-LYT/816



Viewpoint of Site Photos (VP)

Photos of Existing Drainage Facilities



VP1: CP2 to CP1



VP2: CP3 to CP2



VP3: CP4 to CP3



VP4: CP5 to CP4



VP5: CP5 to CP6



VP6: CP7 to CP6



VP7: CP8 to CP7



VP8: CP8 to CP9



VP9: CP9 to CP10

Photos of Existing Drainage Facilities



VP10: CP10 to CP11



VP11: CP11 to CP20



VP12: CP11



VP13: CP12 to CP13



VP14: CP13 to CP14



VP15: CP14 to CP15



VP16: CP15 to CP16



VP17: CP16 to CP17



VP18: CP17 to CP18

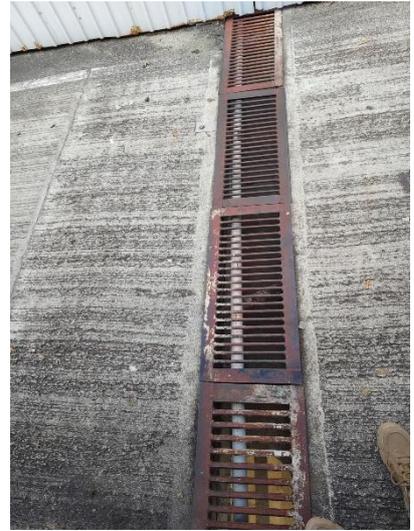
Photos of Existing Drainage Facilities



VP19: CP18 to CP19



VP20: CP19 to CP20



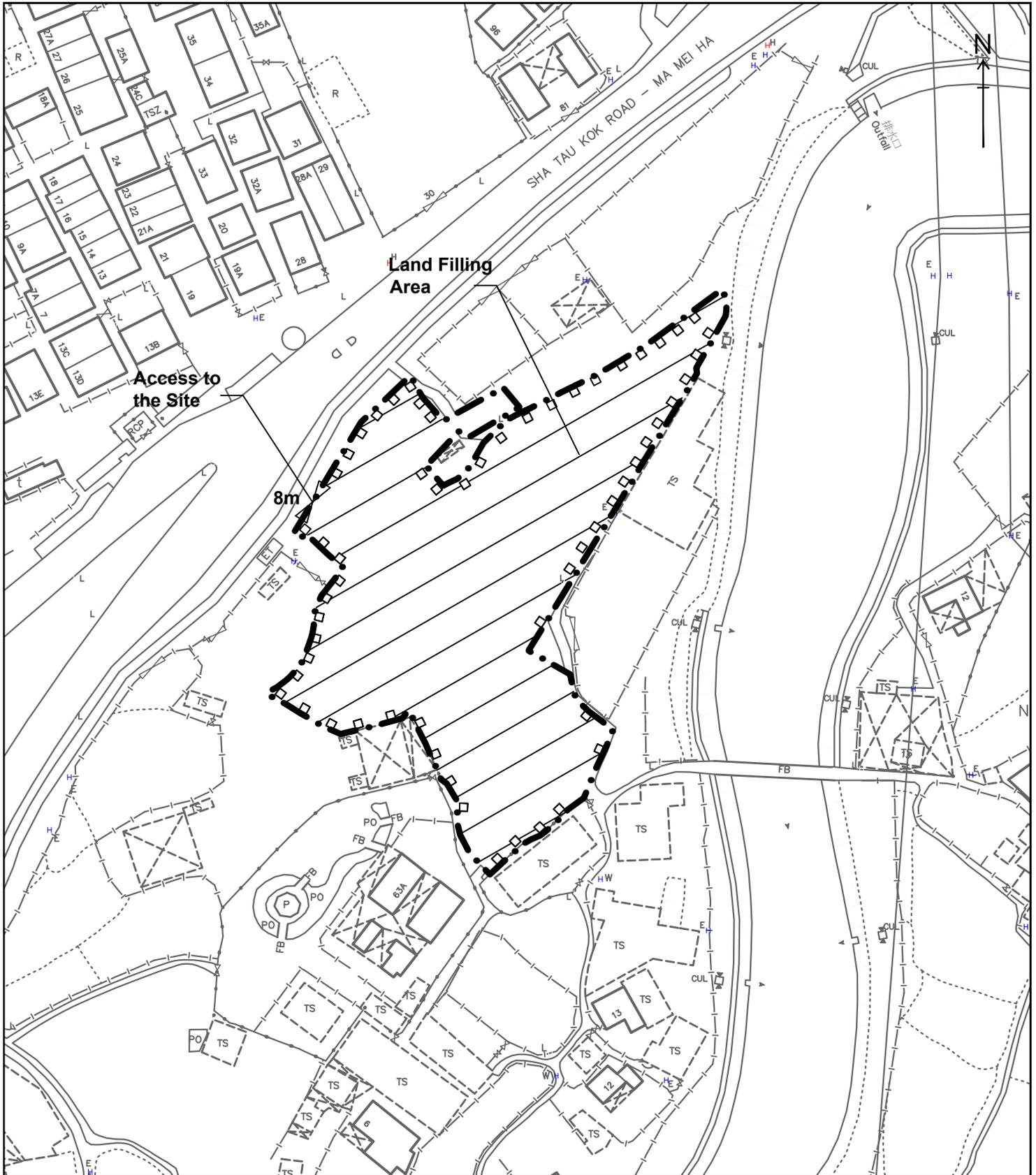
VP21: CP19 to CP20



VP22: CP20 to CP19

Annex 3

Land Filling Plan



Legend:

-  Application Site (about 4,033 sq.m.)
-  Land Filling Area (Area: about 3,900 sq.m., Depth: not more than 0.2m (about +16.3mPD))
- Filling Materials: Concrete
-  Tree Planting Area

For Identification Purpose

Land Filling Plan

Figure 8

Scale 1:1000



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