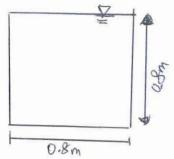


	Legend:	
e wall to be erected.		Proposed UC (1:100) with cast iron cover/UPVC
<ul><li>With desilting facility</li><li>D standard drawing No.</li></ul>		Proposed Catchpit
nd Catchpit follows of Geotechnical Manual 11 and Fig.8.10	FALL	Existing UC/pipe
UC shall be covered by		
xisting 525UC is 1:150		
8m x 0.8m channel is		
	Centre with Canteen fo at Various Adjoining G	Temporary Logistics Ancillary Office and r a Period of 3 Years Lots in D.D.129 and Bovernment Land, han, Yuen Long, New
	TITLE:	
Trim existing	Draina	ge Proposal
Grout All Around Provided with Waterstop Gasket	File:	DWG NO.
	Scale:	App
	Rev.	
CTION DETAILS	Date: 14-09	-2021

Company: Project :	HANDSHIP E	NGINEERING LT	D CO.							
Date: Calculation for channels:	2021/9/14									
Catchment Area of site										
Site Catchment Area	= =	18505 0.018505	m^2 km^2							
Peak runoff in m^3/s	= = =	0.278 1.221792625 73308	x m^3/s liter/min	0.95	x	250	mm/hr	x 0.01850	5 km^2	
Outside Catchment Zone Area at northern side	=	5200 0.0052	m^2 km^2							
Peak runoff in m^3/s	= = =	0.278 0.34333 20600	x m^3/s liter/min	0.95	x	250	mm/hr	x 0.0052	km^2	
Total Peak runoff in m^3/s	= = =	1.221792625 1.565122625 93907		0.3433						

CHECK EXISTING O.Sm XO.Sm channel capacity



5=0 1-100 =0.01 MANNING'S n = 0.015(TABLE 13 OF DSD SD M, 2018). CROSS-SECTIONAL AREA =0.8×0.8 = 800 0.64 m2 Perimeter P= 3×0.8=2.4m.  $R = \frac{A}{B} = \frac{0.64}{0.267} = 0.267$ By MANNING 'S FOUATION, FLOW CAPALITY O  $= \frac{A \times R^{\frac{2}{3}} \times 5^{\frac{1}{2}}}{n}$  $= \frac{10.641(0.267)^{\frac{2}{3}}(0.01)^{\frac{1}{2}}}{0.015}$ - 1.77 m 7/s 71.565 m3/s : EXISTING channel has adequate Capacity to cater the Surface. runoff. Also, according to Fig 8.7 - chart for the

Rapid Pesiph of channels for gradient (1150, 525UC will be suitable. GRISZING

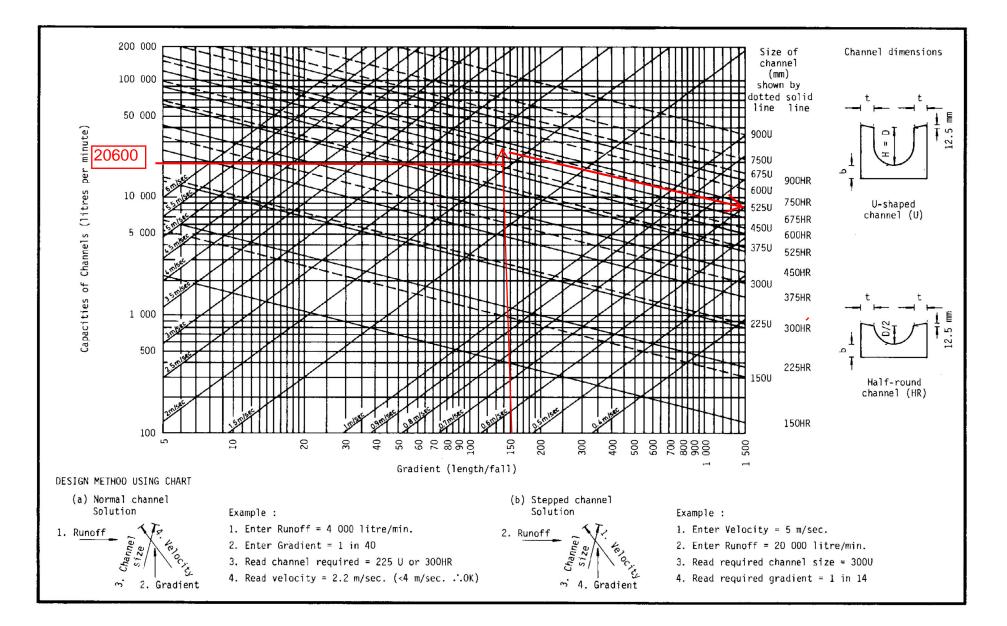
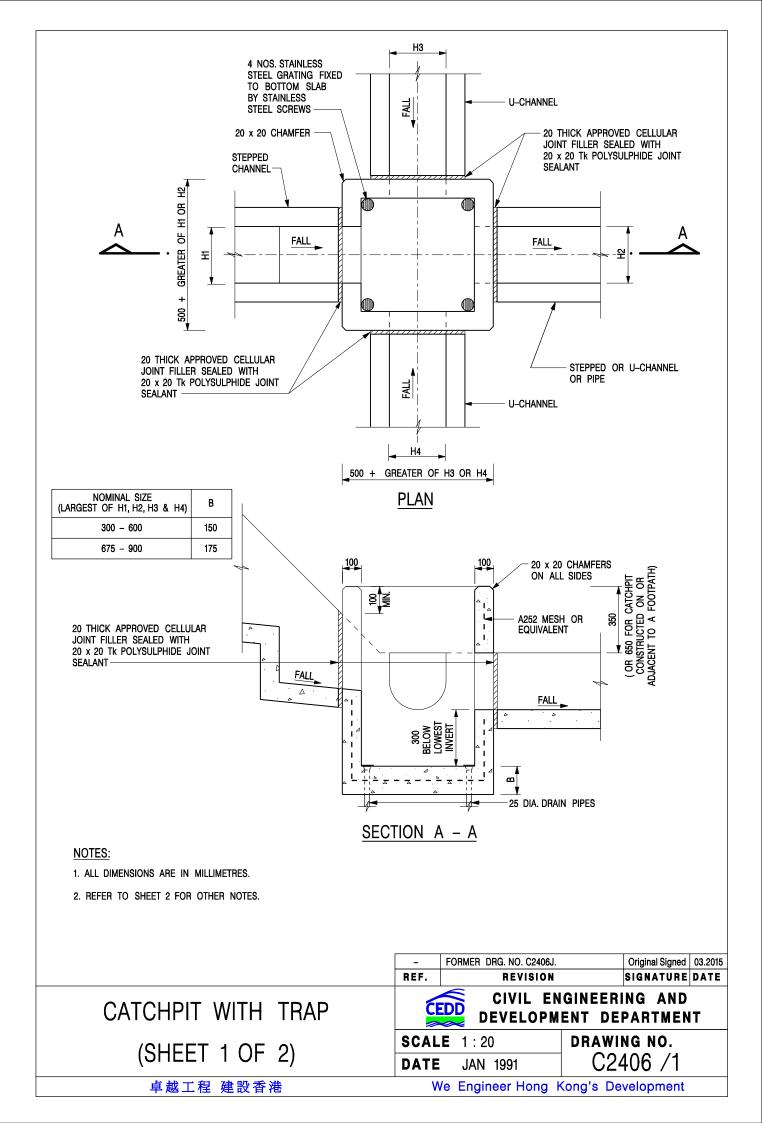
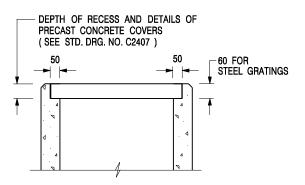


Figure 8.7 - Chart for the Rapid Design of Channels





# ALTERNATIVE TOP SECTION FOR PRECAST CONCRETE COVERS / GRATINGS

#### NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. ALL CONCRETE SHALL BE GRADE 20 /20.
- 3. CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
- 4. FOR DETAILS OF JOINT, REFER TO STD. DRG. NO. C2413.
- 5. CONCRETE TO BE COLOURED AS SPECIFIED.
- UNLESS REQUESTED BY THE MAINTENANCE PARTY AND AS DIRECTED BY THE ENGINEER, CATCHPIT WITH TRAP IS NORMALLY NOT PREFERRED DUE TO PONDING PROBLEM.
- 7. UPON THE REQUEST FROM MAINTENANCE PARTY, DRAIN PIPES AT CATCHPIT BASE CAN BE USED BUT THIS IS FOR CATCHPITS LOCATED AT SLOPE TOE ONLY AND AS DIRECTED BY THE ENGINEER.
- 8. FOR CATCHPITS CONSTRUCTED ON OR ADJACENT TO A FOOTPATH, STEEL GRATINGS (SEE DETAIL 'A' ON STD. DRG. NO. C2405 ) OR CONCRETE COVERS (SEE STD. DRG. NO. C2407 ) SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER.
- 9. IF INSTRUCTED BY THE ENGINEER, HANDRAILING (SEE DETAIL 'G' ON STD. DRG. NO. C2405; EXCEPT ON THE UPSLOPE SIDE ) IN LIEU OF STEEL GRATINGS OR CONCRETE COVERS CAN BE ACCEPTED AS AN ALTERNATIVE SAFETY MEASURE FOR CATCHPITS NOT ON A FOOTPATH NOR ADJACENT TO IT. TOP OF THE HANDRAILING SHALL BE 1 000 mm MIN. MEASURED FROM THE ADJACENT GROUND LEVEL.
- 10. MINIMUM INTERNAL CATCHPIT WIDTH SHALL BE 1 000 mm FOR CATCHPITS WITH A HEIGHT EXCEEDING 1 000 mm MEASURED FROM THE INVERT LEVEL TO THE ADJACENT GROUND LEVEL. AND, STEP IRONS (SEE DSD STD. DRG. NO. DS1043) AT 300 ¢ STAGGERED SHALL BE PROVIDED. THICKNESS OF CATCHPIT WALL FOR INSTALLATION OF STEP IRONS SHALL BE INCREASED TO 150 mm.
- 11. FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'F' ON STD. DRG. NO. C2405.
- 12. SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

	– FORMER DRG.	NO. C2406J. Original Signed 03.2015	
	REF. R	EVISION SIGNATURE DATE	
CATCHPIT WITH TRAP	CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT		
(SHEET 2 OF 2)	<b>SCALE</b> 1:20	DRAWING NO.	
	DATE JAN 199	en C2406 /2	
卓越工程 建設香港	We Engineer	r Hong Kong's Development	

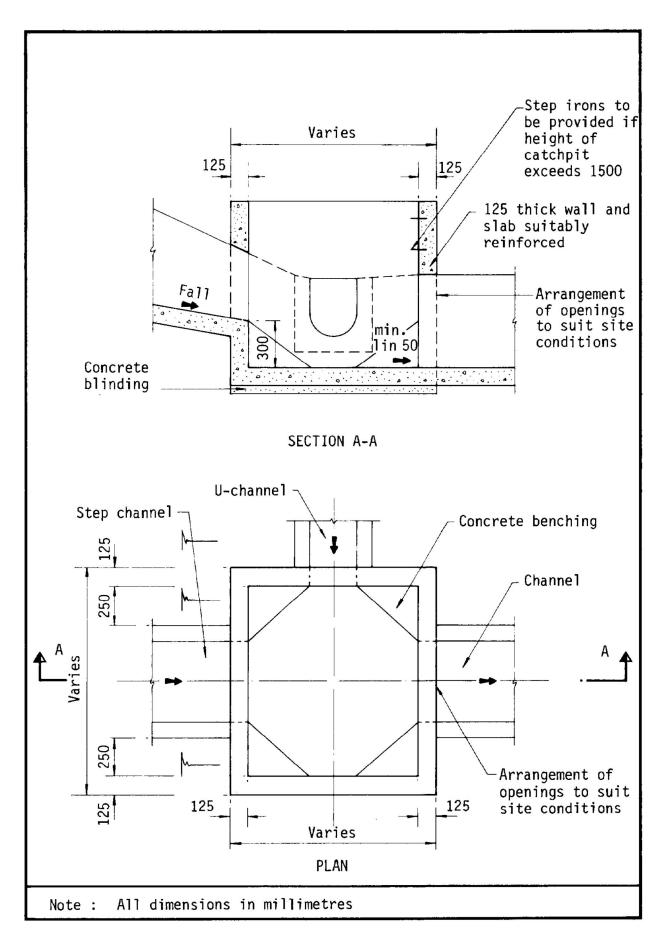
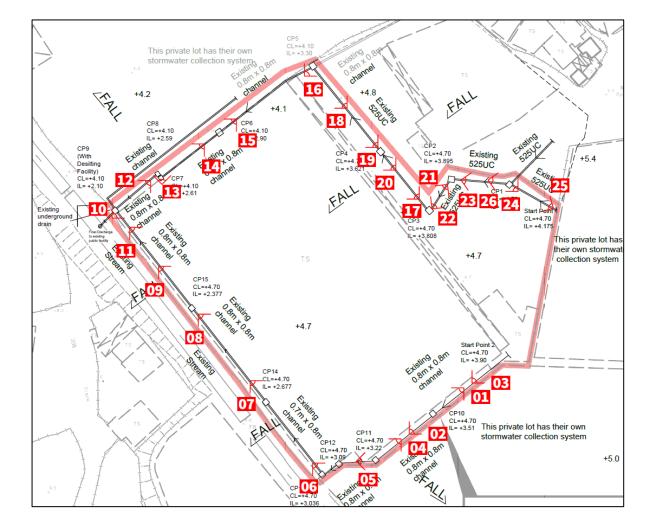


Figure 8.10 - Typical Details of Catchpits

## Appendix II - Photographic Records of The Existing Drainage Facilities



#### (i) The photographic records of the implemented drainage facilities are provided as follows:



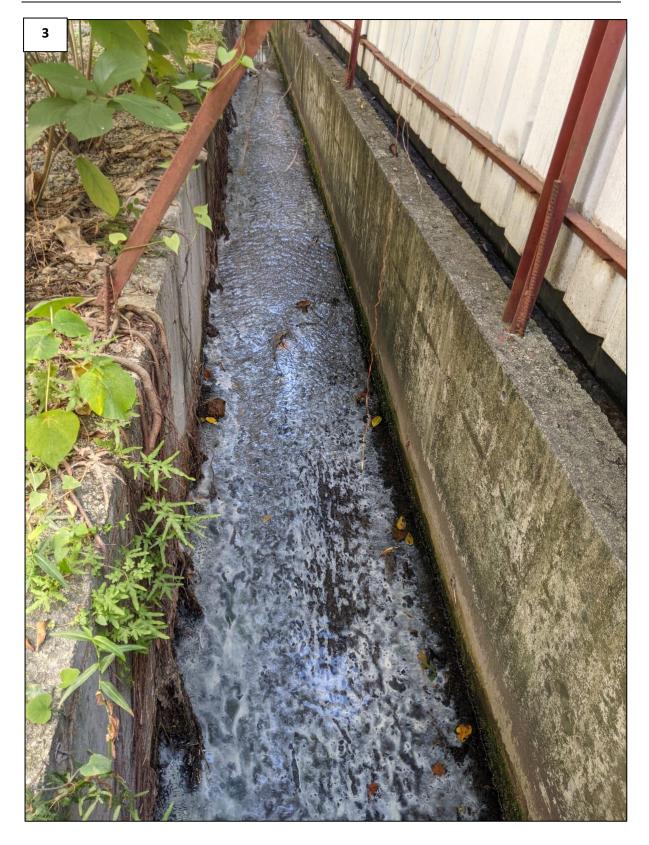
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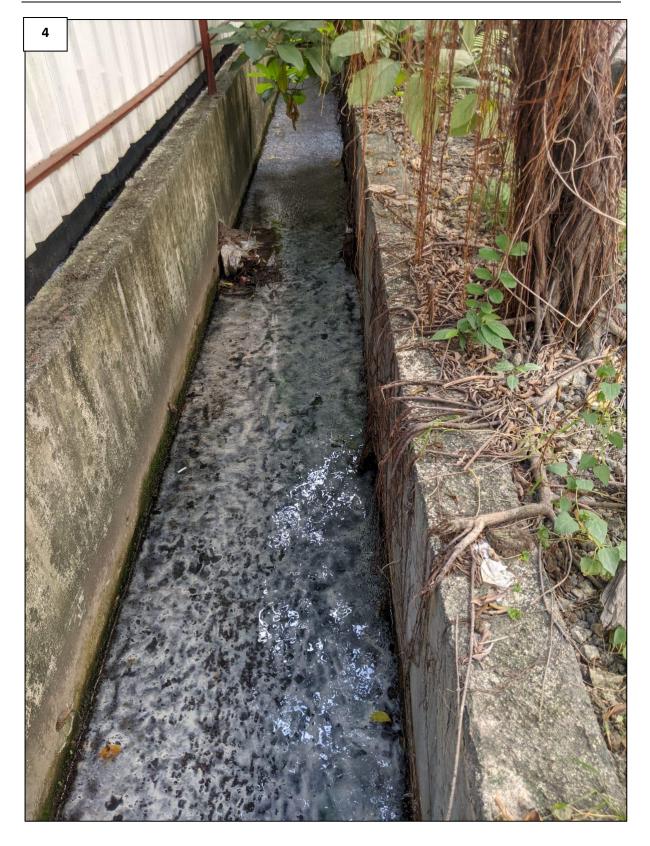




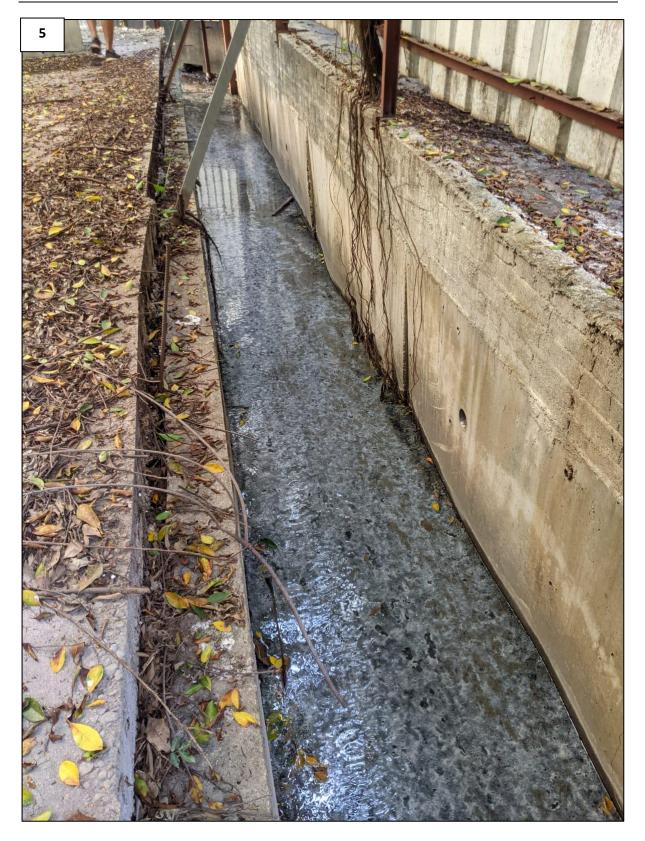




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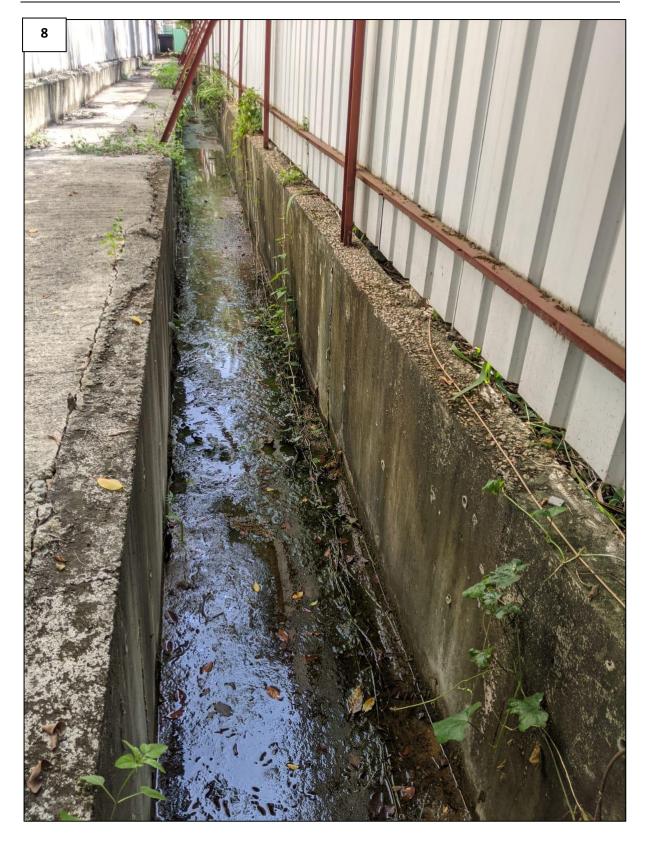




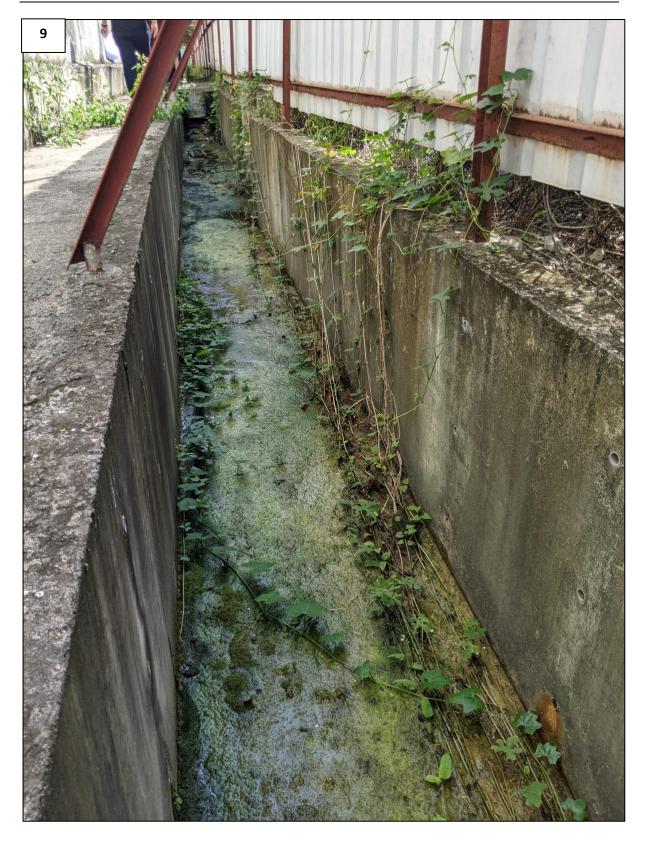
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Temporary Logistics Centre with Ancillary Office and Canteen for a Period of 3 Years in "Residential (Group B)2", "Open Space", "Government, Institution or Community" Zones and an area shown as 'Road', Various Lots in D.D. 129 and Adjoining Government Land, Lau Fau Shan, Yuen Long, New Territories



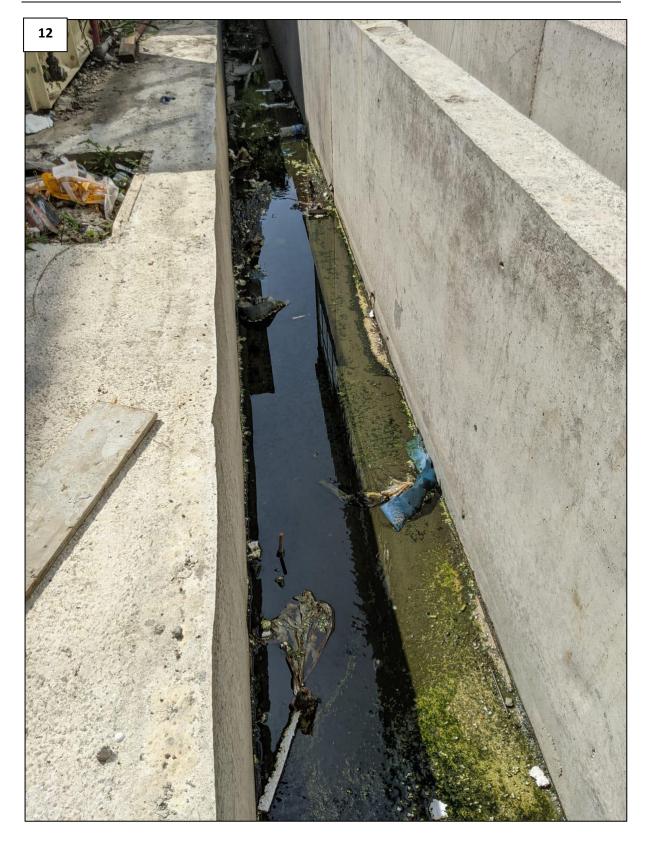


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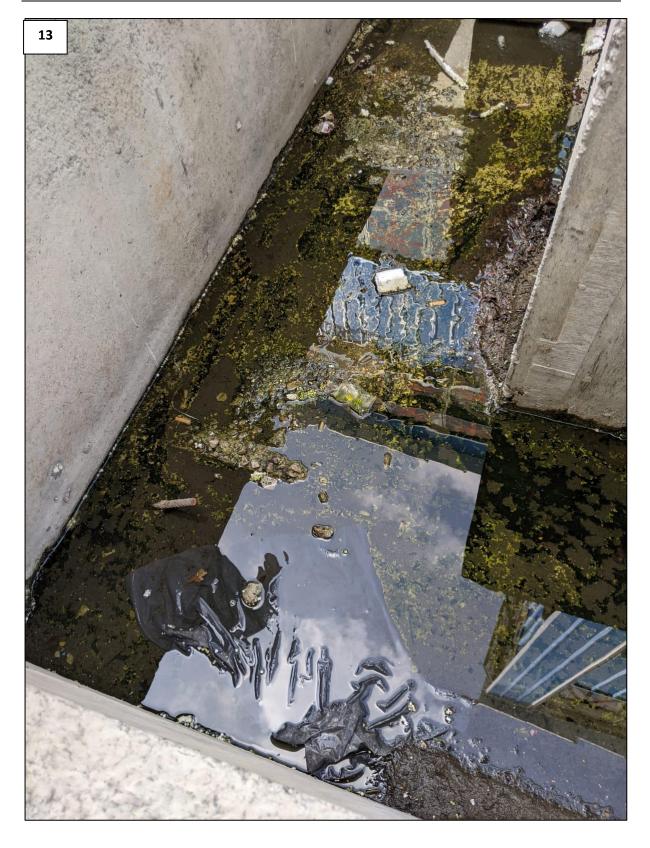


Temporary Logistics Centre with Ancillary Office and Canteen for a Period of 3 Years in "Residential (Group B)2", "Open Space", "Government, Institution or Community" Zones and an area shown as 'Road', Various Lots in D.D. 129 and Adjoining Government Land, Lau Fau Shan, Yuen Long, New Territories





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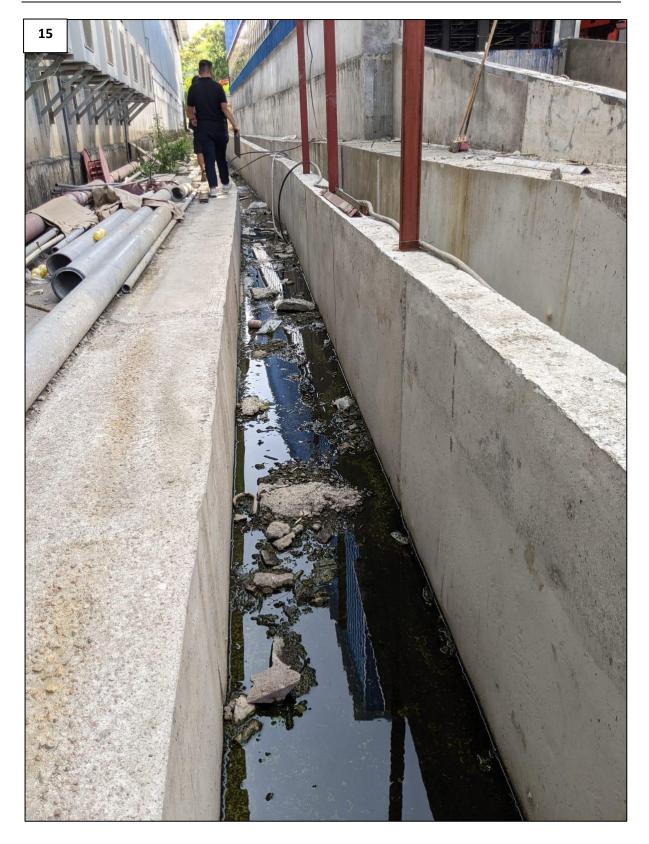


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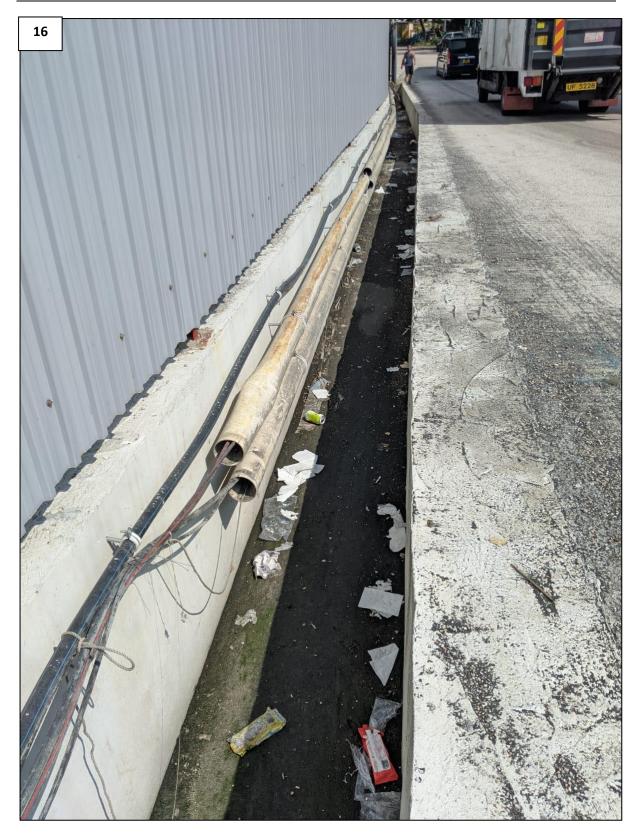




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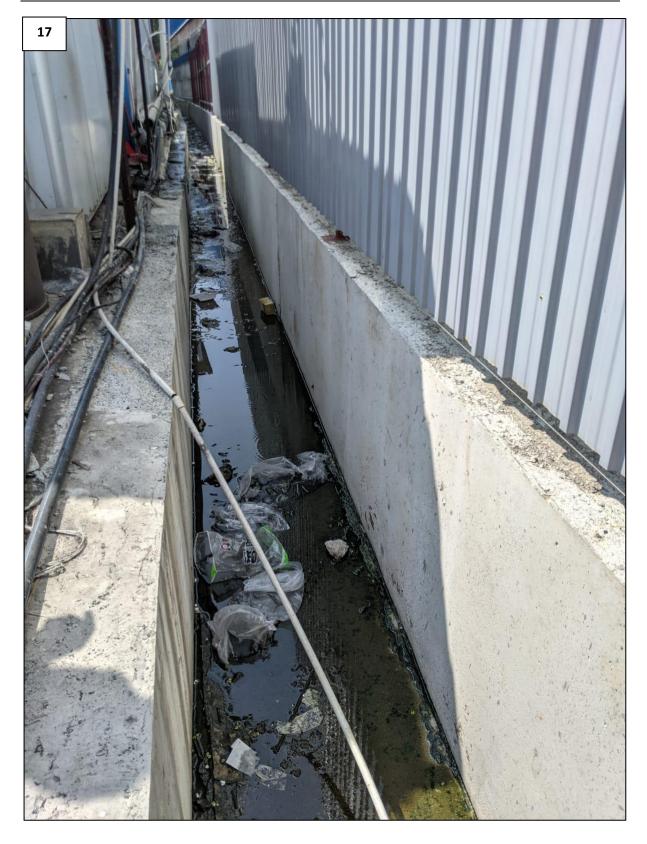




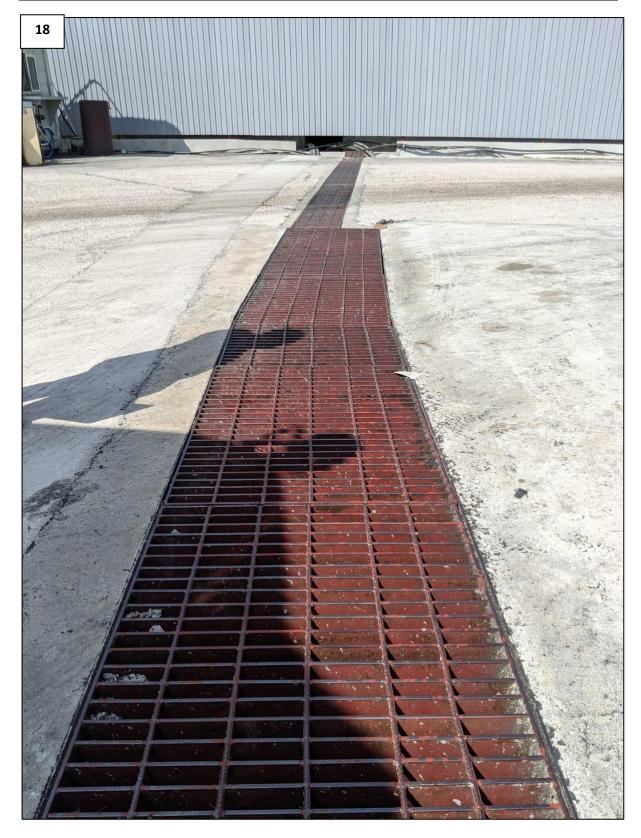




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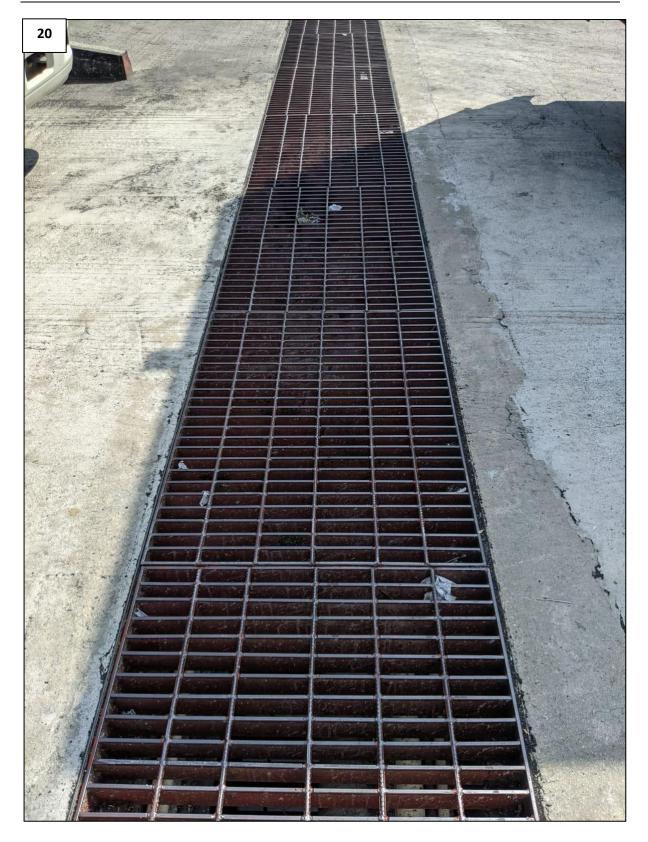






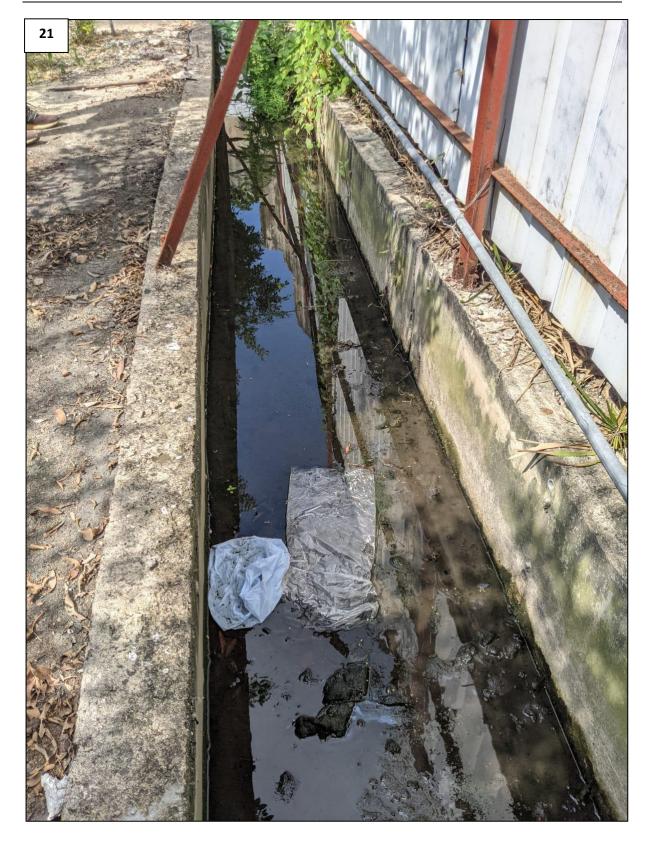


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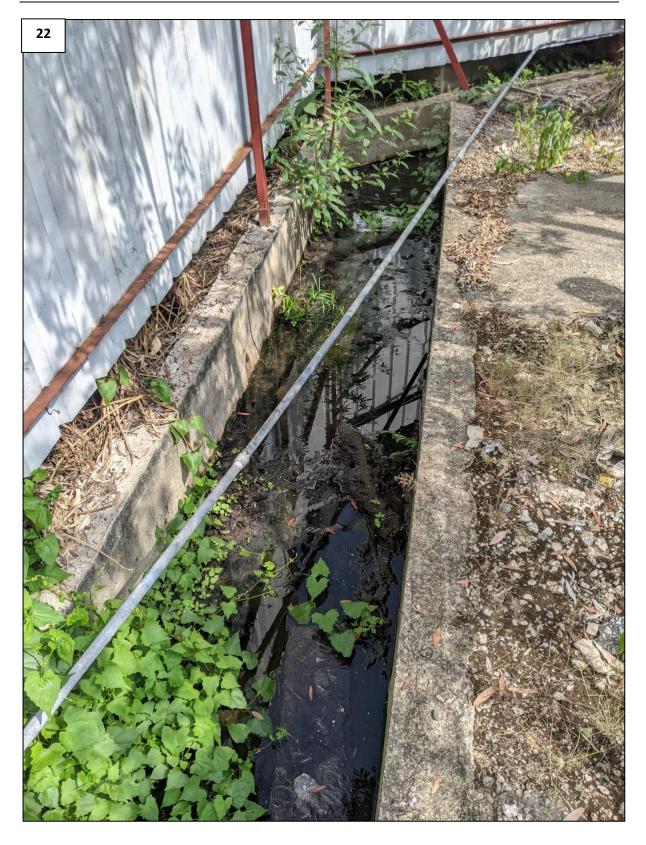


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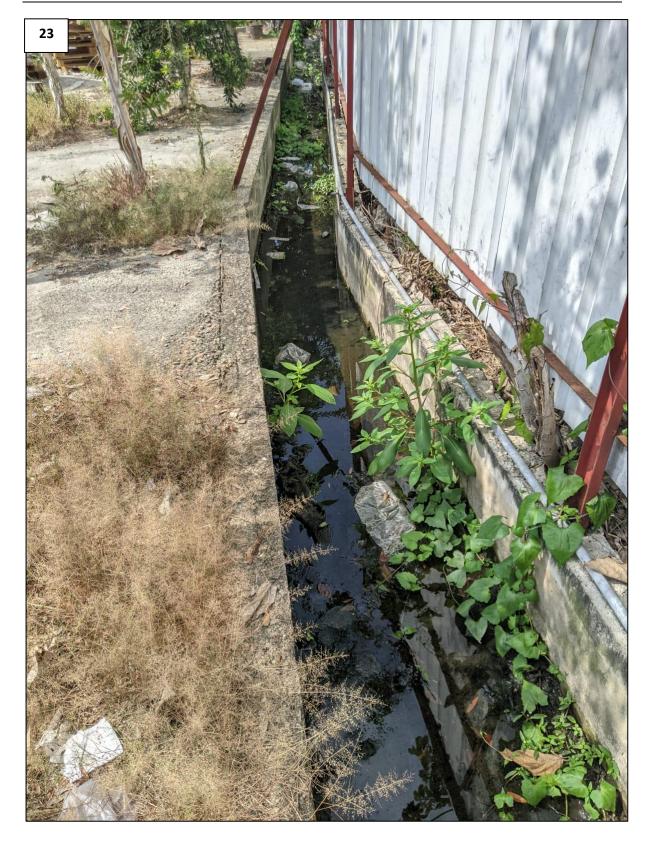




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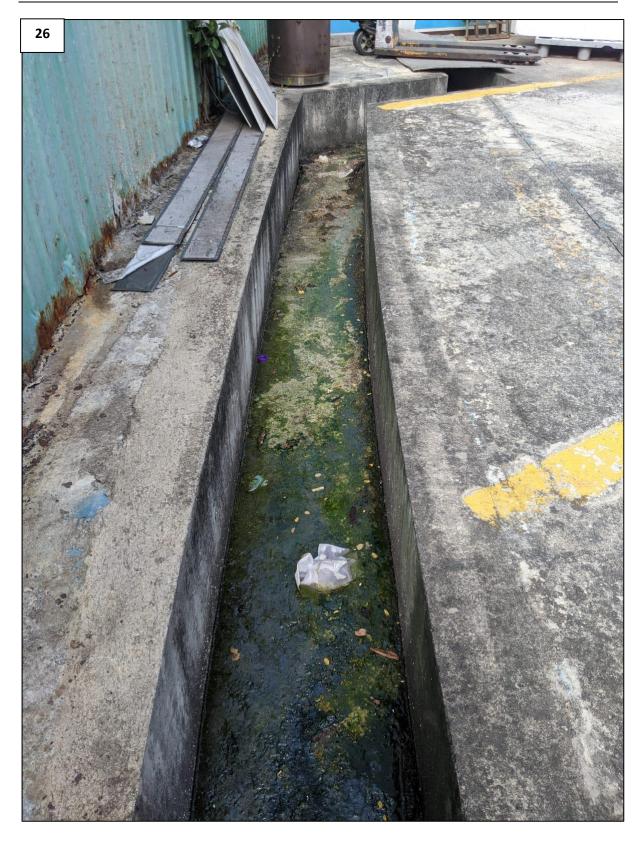


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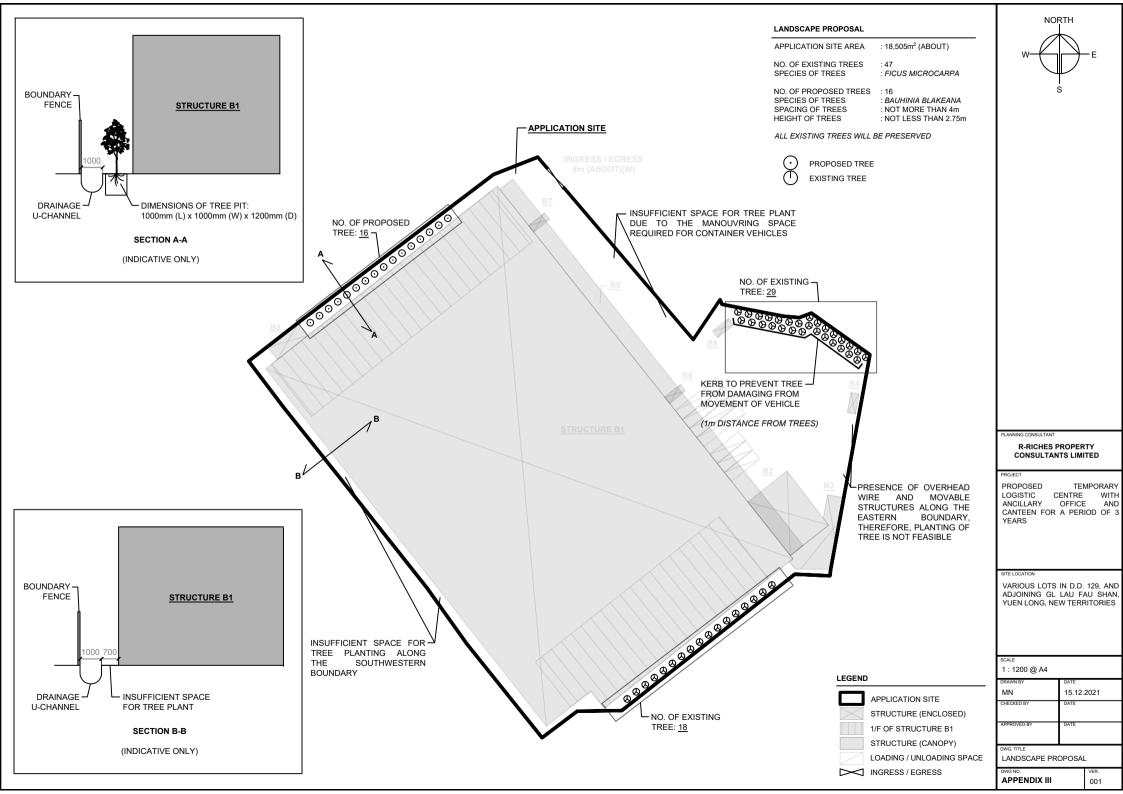




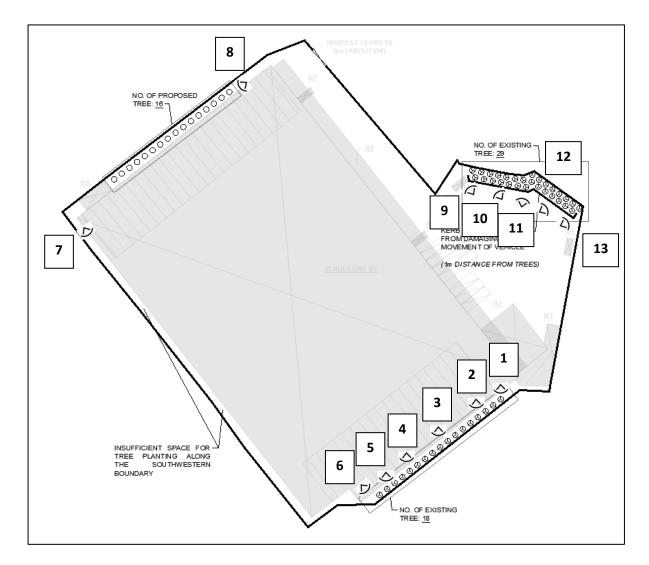
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## Appendix IV - Photographic Records of Existing Landscape Planting

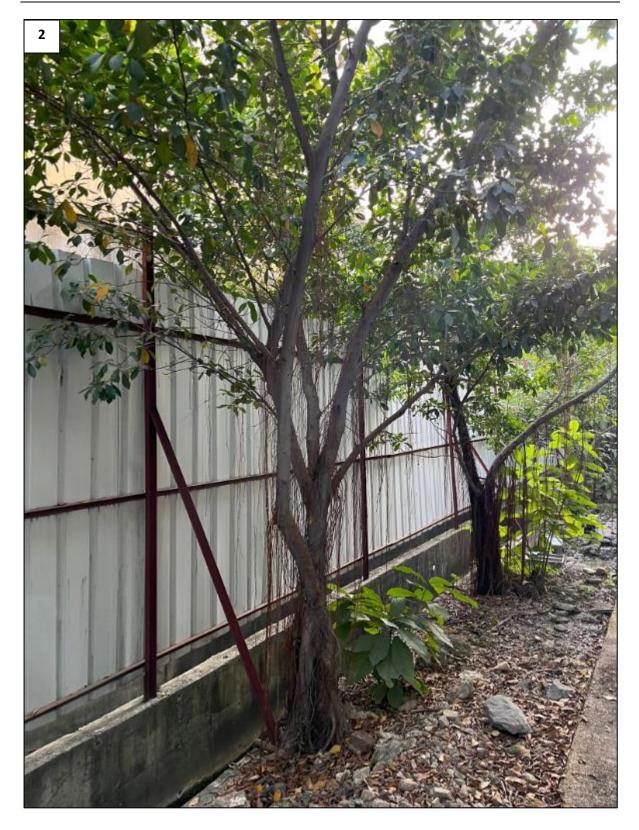


(i) The photographic records of existing landscape planting are provided as follows:

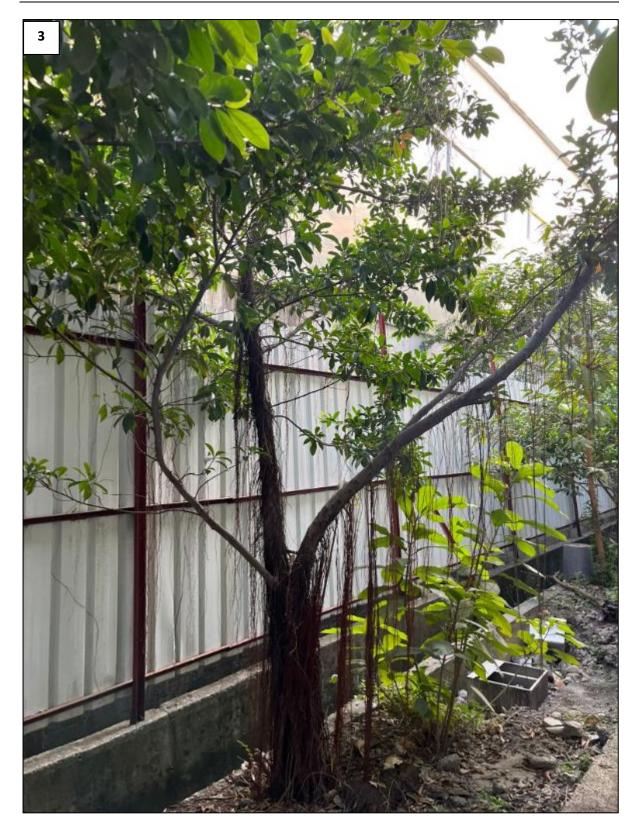




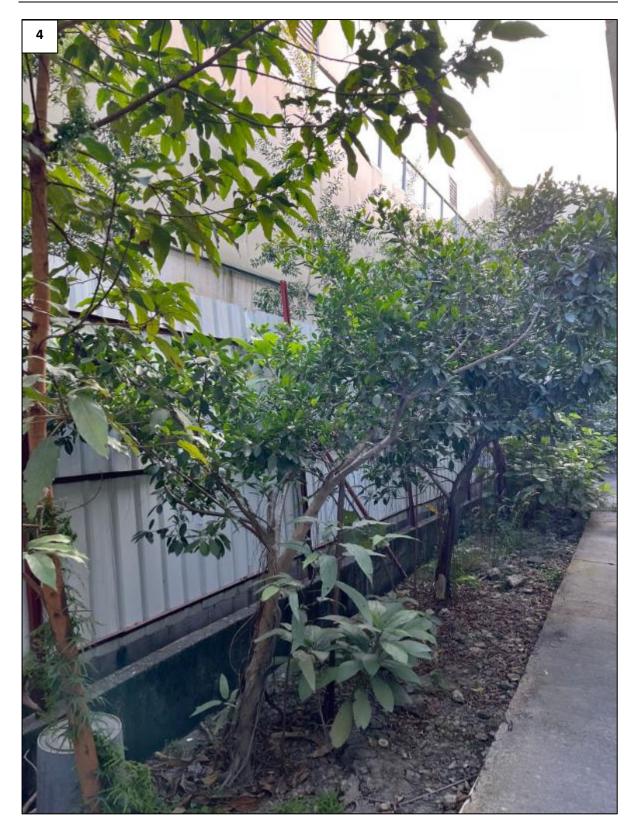




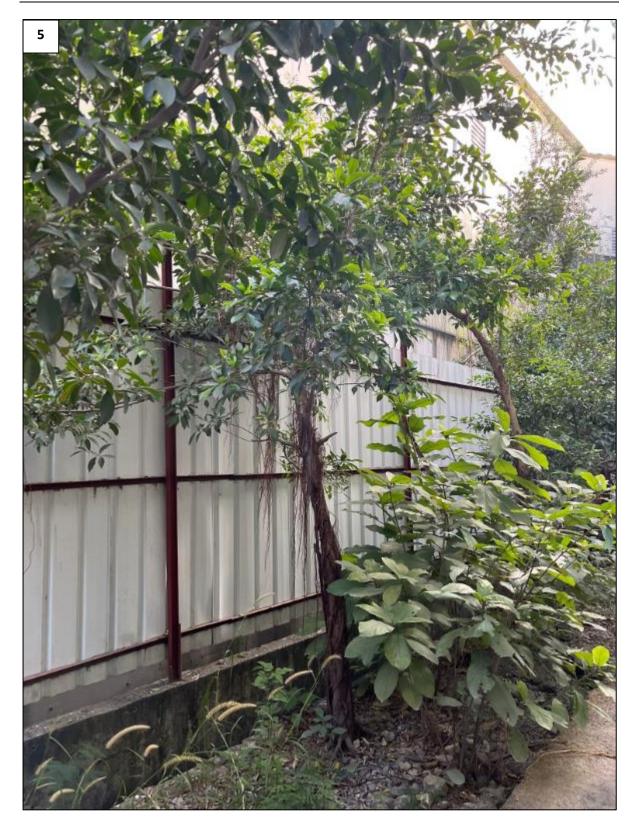






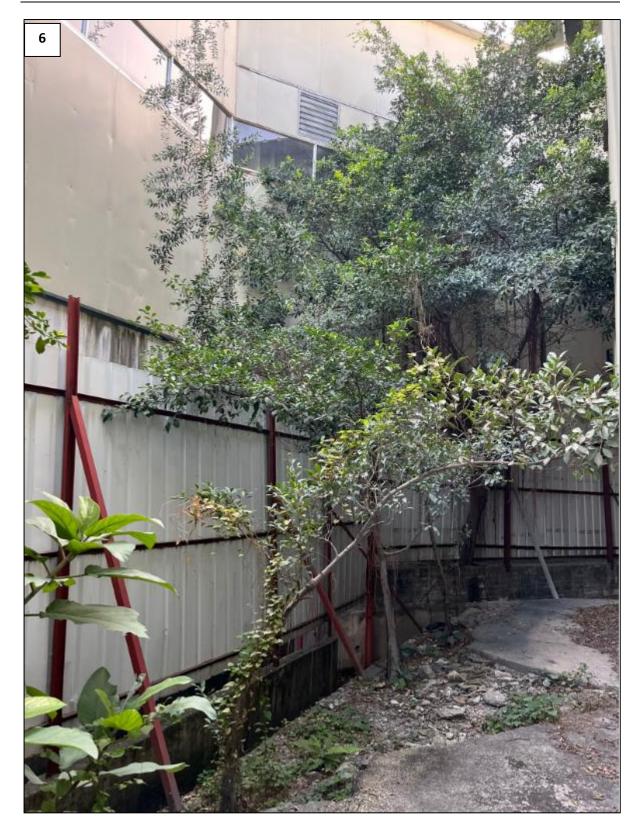








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