

Your ref -
Our ref 231448/(CV/2017/02)/M45/950/B00149

ARUP

Level 5, Festival Walk
80 Tat Chee Avenue
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Hong Kong

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f +852 2268 3955

www.arup.com

BY HAND

Environmental Protection Department
The EIA Ordinance Register Office,
27th Floor, Southorn Centre
130 Hennessy Road
Wan Chai, Hong Kong

26 September 2018

Dear Sir

Contract No. CV/2017/02

Development of Columbarium at Sandy Ridge Cemetery – Infrastructural Works at Man Kam To Road and Lin Ma Hang Road

Submission under Environmental Permit (EP-534/2017) – Condition 2.11 (Construction Works Schedule and Location Plans)

On behalf of CEDD's Civil Engineering Office (the Permit Holder) of the captioned Environmental Permit (EP), we submit herewith four hard copies and one electronic copy of a Works Plan consisting of a detailed programme of all construction works and the associated location plan (Appendix A refers) for your retention.

The certification letter by ET Leader and the verification letter by IEC for the foregoing particulars are also enclosed (Appendix B refers).

Lastly, this is to confirm that this submission only covers / serves the relevant geographical areas of the EP-534/2017 (Appendix C refers).

Should you have comment on the foregoing, please feel free to contact my Resident Engineer, Mr. Anthony LAU at 6190-1200 or ET Leader, Mr. TAM Tak-wing at 9212-0408.

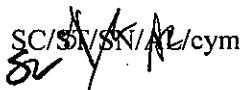
Yours faithfully



Samuel Chan
The *Project Manager's* delegate for this contract

cc	CEDD – DPTL (Lands Works)	- Mr. SHUM Ngai-hung, Steven	} w/o electronic copy
	SHCCCL	- Mr. Elvin LAM	
	ET (AUES)	- Mr. T. W. TAM (by email)	
	IEC (Acuity)	- Mr. Jacky LEUNG (by email)	

Response required : Yes
Date required : 25 October 2018
Attachment : Yes (4 sets)

SC/SN/AL/cym


Appendix A

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830600 E

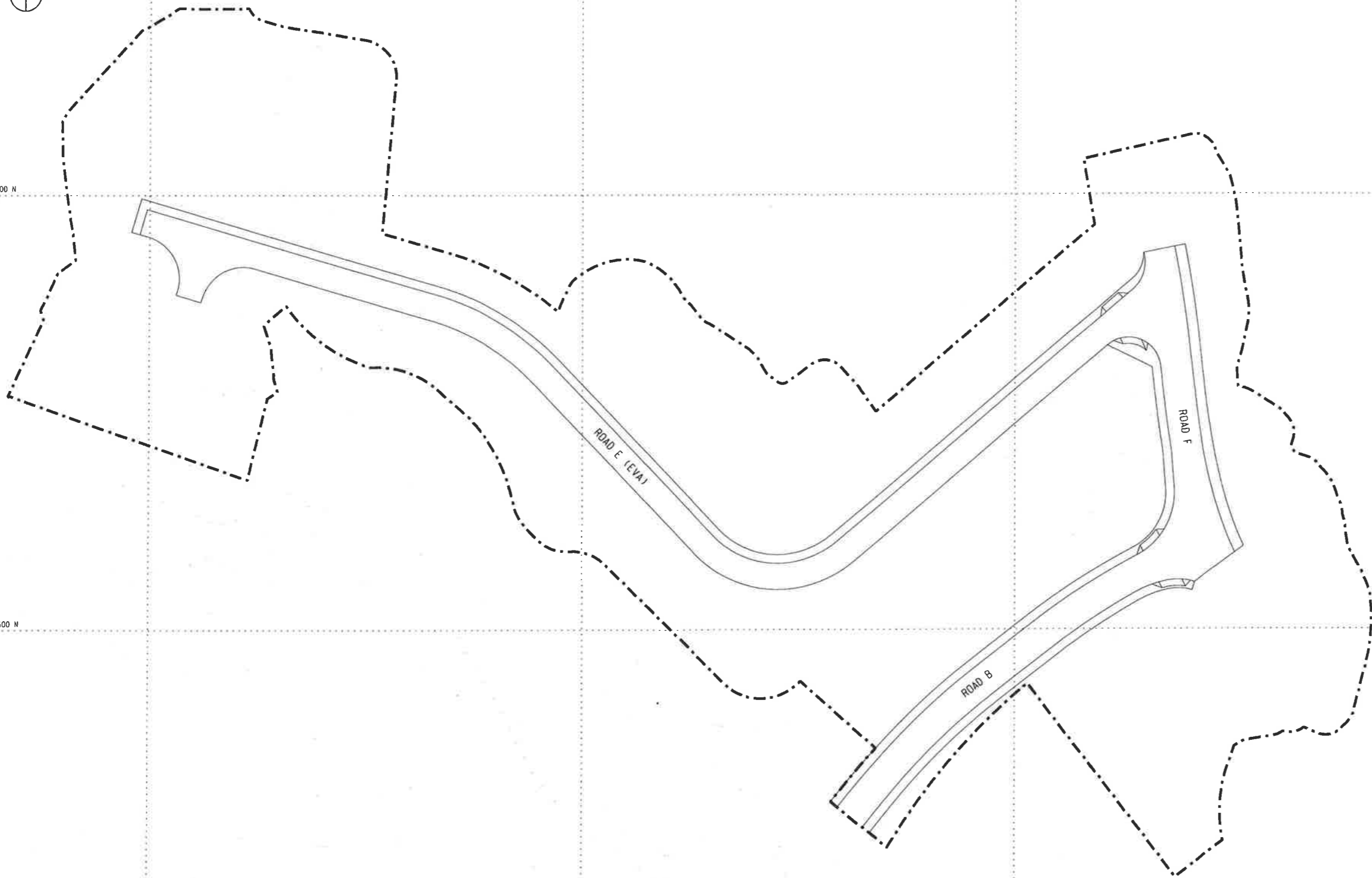
830700 E

830800 E

843700 N

843600 N

843500 N



LO WU

SHA LING

KEY PLAN

LEGEND:

--- SITE BOUNDARY

Rev	Description	By	Date
-	TENDER DRAWING	AW	11/17

Consultant
ARUP

Contract No. and Title:
 Contract No. CV/2017/02
 Development of Columbarium
 at Sandy Ridge Cemetery -
 Infrastructural Works at
 Man Kam To Road and
 Lin Ma Hang Road

Drawing title
**GENERAL LAYOUT
 (SHEET 1 OF 5)**

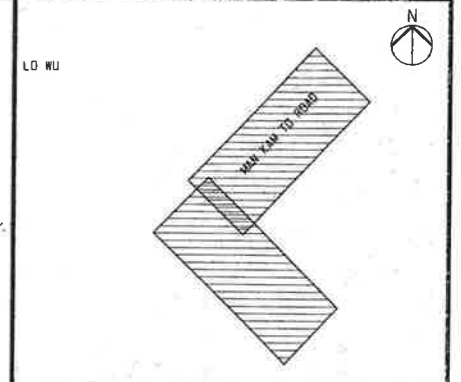
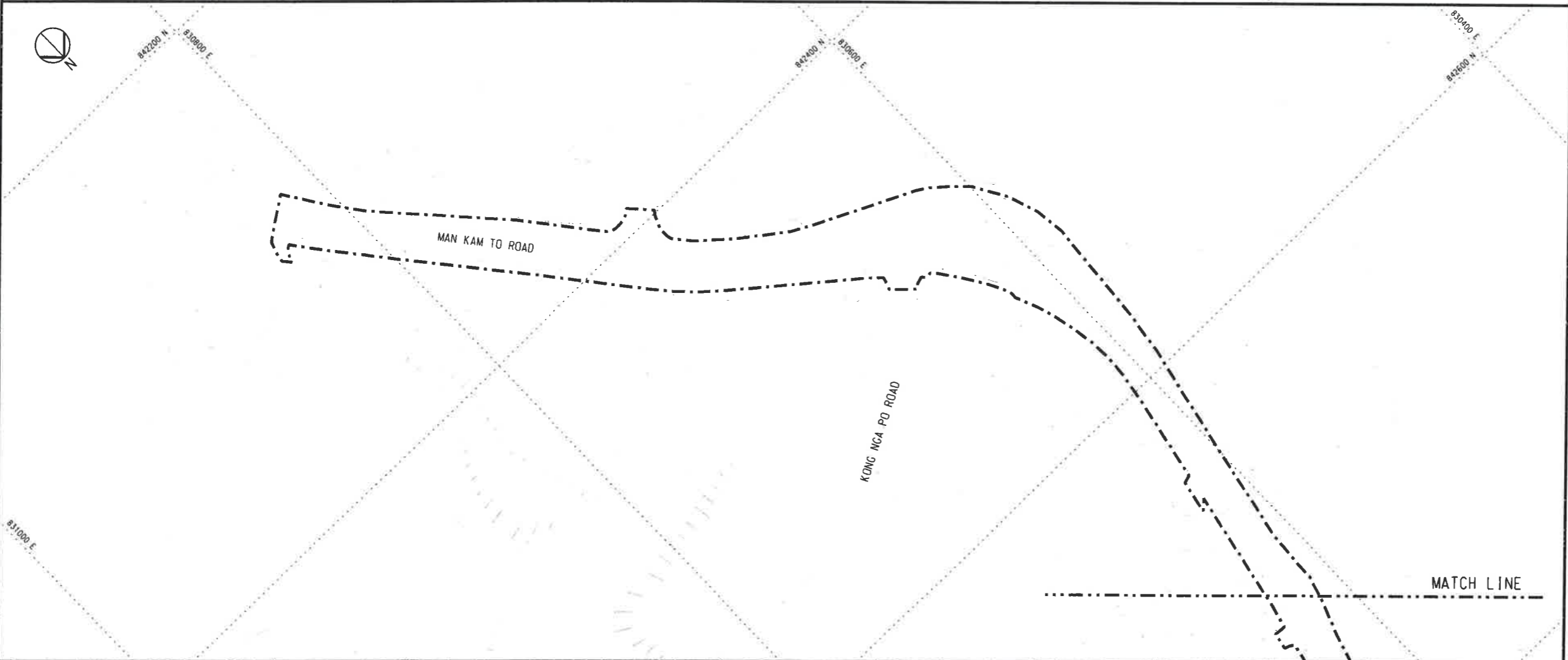
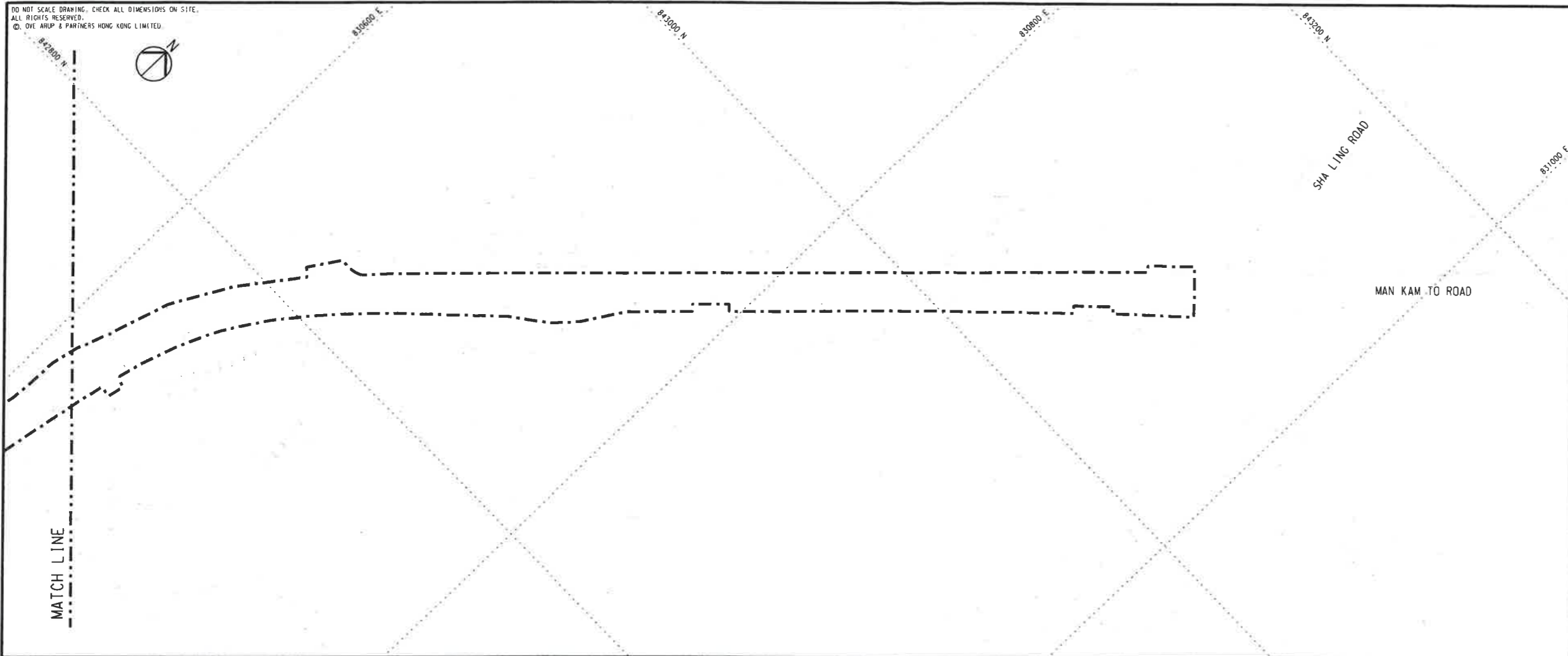
Drawing no. 231448/C2/G/1001	Rev. -		
Drawn WM	Date 07/17	Checked AW	Approved DL
Scale 1:500 @A1	Status TENDER		

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 Civil Engineering and
 Development Department

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KEY PLAN

LEGEND:

--- SITE BOUNDARY

Rev	Description	By	Date
-	TENDER DRAWING	AW	11/17

Consultant
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Contract No. and Title:
Contract No. CV/2017/02
Development of Columbarium
at Sandy Ridge Cemetery -
Infrastructural Works at
Man Kam To Road and
Lin Ma Hang Road

Drawing title
**GENERAL LAYOUT
(SHEET 2 OF 5)**

Drawing no. 231448/C2/G/1002		Rev. -	
Drawn WM	Date 07/17	Checked AW	Approved DL
Scale 1:1000 @A1		Status TENDER	

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84400 N

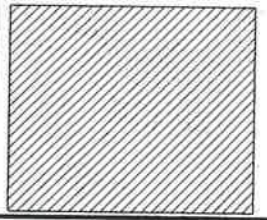
831800 E

832000 E

832200 E



LIN MA HANG ROAD



KEY PLAN

LEGEND:

--- SITE BOUNDARY

MATCH LINE
 FOR CONTINUED DRAWING SET
 DRG 231448/C2/G/1003

LIN MA HANG ROAD

844200 N

844000 N

Rev	Description	By	Date
-	TENDER DRAWING	AW	11/17

Consultant
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Contract No. and Title
 Contract No. CV/2017/02
 Development of Columbarium
 at Sandy Ridge Cemetery -
 Infrastructural Works at
 Man Kam To Road and
 Lin Ma Hang Road

Drawing title
GENERAL LAYOUT
 (SHEET 3 OF 5)

Drawing no.	231448/C2/G/1003	Rev.	-
Drawn	MM	Date	07/17
Checked	AW	Approved	DL
Scale	1:1000 @A1	Status	TENDER

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832000 E

832000 E

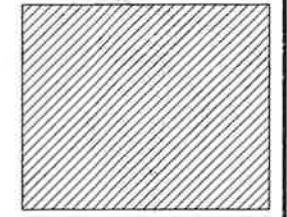
832600 E

844600 N

844400 N

LIN MA HANG ROAD

MATCH LINE
 SEE DRAWING 231448/C2/G/1004



LIN MA HANG ROAD

KEY PLAN

LEGEND:

--- SITE BOUNDARY

Rev	Description	By	Date
-	TENDER DRAWING	AW	11/17

Consultant:
ARUP

Contract No. and Title:
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 Development of Columbarium
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 Infrastructural Works at
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 Lin Ma Hang Road

Drawing Title:
**GENERAL LAYOUT
 (SHEET 4 OF 5)**

Drawing no.	231448/C2/G/1004	Rev.	-
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Date	07/17	Approved	DL
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840400 N



831200 E

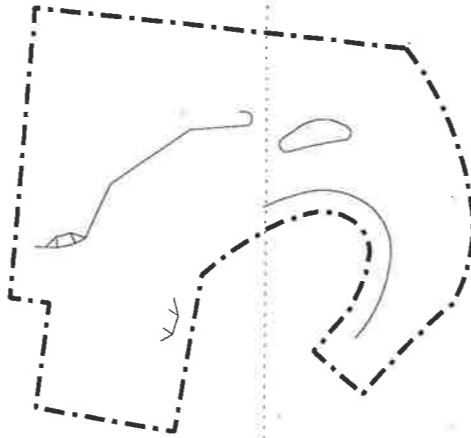
831300 E

831400 E

LUNG SUM AVENUE

LANDMARK NORTH

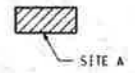
LUNG WAN STREET



SITE A

840300 N

SHEUNG SHUI



FAN LING HIGHWAY
 FAN LING
 SITE B

KEY PLAN

LEGEND:

--- SITE BOUNDARY

839100 N



832300 E

832400 E

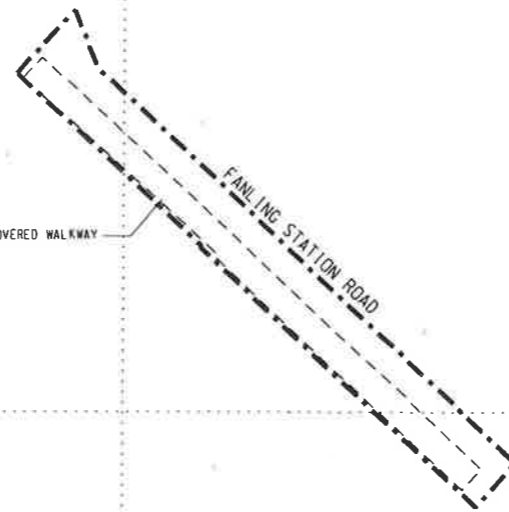
832500 E

832600 E

MTR FANLING STATION

SAN WAN ROAD

PROPOSED COVERED WALKWAY



SITE B

FANLING STATION PLAYGROUND

FANLING HIGHWAY

Rev	Description	By	Date
-	TENDER DRAWING	AW	11/17

Consultant:
ARUP

Contract No. and Title:
 Contract No. CV/2017/02
 Development of Columbarium at Sandy Ridge Cemetery - Infrastructural Works at Man Kam To Road and Lin Ma Hang Road

Drawing title:
GENERAL LAYOUT (SHEET 5 OF 5)

Drawing no. 231448/C2/G/1005		Rev. -	
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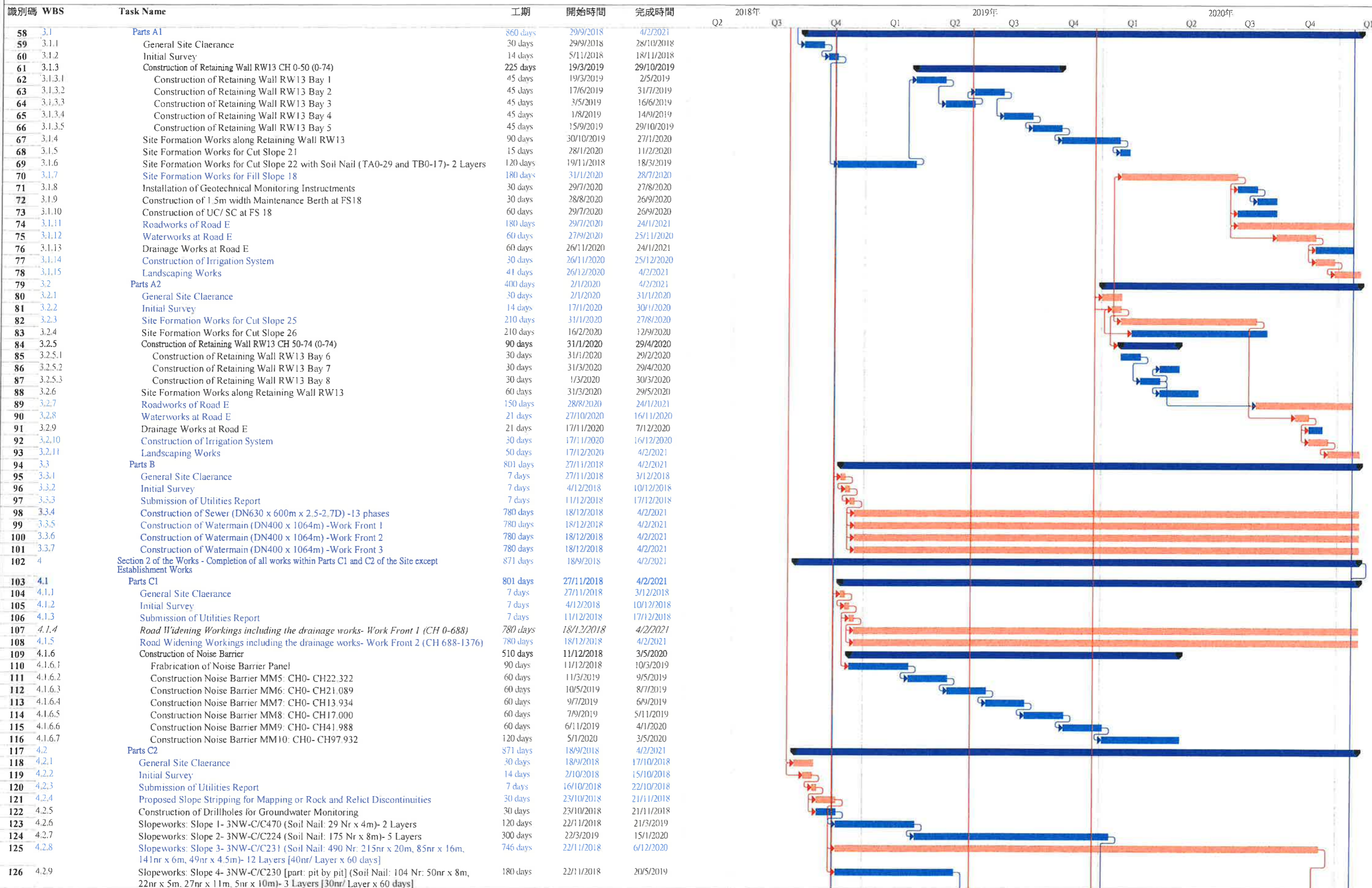
土木工程拓展署
 Civil Engineering and Development Department

識別碼 WBS	Task Name	工期	開始時間	完成時間	2018年 2019年 2020年											
					Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
1	Key Dates	2077 days	30/5/2018	4/2/2024	[Gantt chart bars for Key Dates]											
2	Contract Award & Commencement	2 days	30/5/2018	31/5/2018	[Gantt chart bars for Contract Award & Commencement]											
3	Letter of Acceptance	0 days	30/5/2018	30/5/2018	[Gantt chart bars for Letter of Acceptance]											
4	Starting Date	0 days	31/5/2018	31/5/2018	[Gantt chart bars for Starting Date]											
5	Site Possession Date	580 days	31/5/2018	1/1/2020	[Gantt chart bars for Site Possession Date]											
6	Part A1	120 days	1/6/2018	28/9/2018	[Gantt chart bars for Part A1]											
7	Part A2	580 days	1/6/2018	1/1/2020	[Gantt chart bars for Part A2]											
8	Part A3 (Subject to Excision)	120 days	1/6/2018	28/9/2018	[Gantt chart bars for Part A3]											
9	Part A4 (Subject to Excision)	580 days	1/6/2018	1/1/2020	[Gantt chart bars for Part A4]											
10	Part B	0 days	31/5/2018	31/5/2018	[Gantt chart bars for Part B]											
11	Part C1	0 days	31/5/2018	31/5/2018	[Gantt chart bars for Part C1]											
12	Part C2	270 days	1/6/2018	25/2/2019	[Gantt chart bars for Part C2]											
13	Part D	180 days	1/6/2018	27/11/2018	[Gantt chart bars for Part D]											
14	Part E	0 days	31/5/2018	31/5/2018	[Gantt chart bars for Part E]											
15	The time for ordering the "Section Subject to Excision" for section 6 and 7	390 days	1/6/2018	25/6/2019	[Gantt chart bars for Section 6 and 7 ordering]											
16	Section Completion Date	2075 days	1/6/2018	4/2/2024	[Gantt chart bars for Section Completion Date]											
17	Section 1 of the Works - Completion of all works within Parts A1, A2 and B of the Site except Establishment Works	980 days	1/6/2018	4/2/2021	[Gantt chart bars for Section 1 completion]											
18	Section 2 of the Works - Completion of all works within Parts C1 and C2 of the Site except Establishment Works	980 days	1/6/2018	4/2/2021	[Gantt chart bars for Section 2 completion]											
19	Section 3 of the Works - Completion of all works within Parts D and E of the Site	980 days	1/6/2018	4/2/2021	[Gantt chart bars for Section 3 completion]											
20	Section 4 of the Works - Completion of Establishment Works for the Landscape Softworks within Parts A1, A2 and B of the Site	1095 days	5/2/2021	4/2/2024	[Gantt chart bars for Section 4 completion]											
21	Section 5 of the Works - Completion of Establishment Works for the Landscape Softworks within Parts C1 and C2 of the Site	1095 days	5/2/2021	4/2/2024	[Gantt chart bars for Section 5 completion]											
22	Section 6 of the Works - Completion of all works within Parts A3 and A4 of the Site except Establishment Works. Extent of works under section 6 of the works is defined in Drawing No. 231448/C2/G/1031	590 days	26/6/2019	4/2/2021	[Gantt chart bars for Section 6 completion]											
23	Section 7 of the Works - Completion of Establishment Works for the Landscape Softworks within Parts A3 and A4 of the Site	1095 days	5/2/2021	4/2/2024	[Gantt chart bars for Section 7 completion]											
24	Preliminaries and Statuary / Contractual Submissions	210 days	1/6/2018	27/12/2018	[Gantt chart bars for Preliminaries and Statuary / Contractual Submissions]											
25	Site Establishment	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Site Establishment]											
26	Provision of the Project Manager's Accommodation	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Provision of the Project Manager's Accommodation]											
27	Applications to Government Department	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Applications to Government Department]											
28	Application of Waste water discharge license	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Application of Waste water discharge license]											
29	Application of chemical waste producer permit	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Application of chemical waste producer permit]											
30	Application of trip ticket system	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Application of trip ticket system]											
31	Notify the commencement date of the Contract to Labour Dept (Construction Site (Safety) Regulation - Regulation 56(1))	14 days	1/6/2018	14/6/2018	[Gantt chart bars for Notify the commencement date of the Contract to Labour Dept]											
32	Notify the commencement date of the Contract to CIC (Construction Industry Council Ordinance (Ch587) - Form)	14 days	1/6/2018	14/6/2018	[Gantt chart bars for Notify the commencement date of the Contract to CIC]											
33	Notify the commencement date of the Contract to CWRA (Application Form for Web Submission Administrator)	14 days	1/6/2018	14/6/2018	[Gantt chart bars for Notify the commencement date of the Contract to CWRA]											
34	Notify the commencement date of the Contract to PCFB (Pneumoconiosis (Compensation) Ordinance - Form 1(B))	14 days	1/6/2018	14/6/2018	[Gantt chart bars for Notify the commencement date of the Contract to PCFB]											
35	Temporary Traffic Arrangement (TTA) Scheme for Man Kam To Road, Lin Ma Hang Road, Sheung Shui Landmark North PTI and Fanling Station Road	179 days	1/6/2018	26/11/2018	[Gantt chart bars for Temporary Traffic Arrangement Scheme]											
36	Submission / approval of traffic consultant	14 days	1/6/2018	14/6/2018	[Gantt chart bars for Submission / approval of traffic consultant]											
37	Preparation of TTA for TMLG and approval from TD and RMO	45 days	15/6/2018	29/7/2018	[Gantt chart bars for Preparation of TTA for TMLG and approval from TD and RMO]											
38	Application for XP	120 days	16/7/2018	12/11/2018	[Gantt chart bars for Application for XP]											
39	Comment & approval of TTA scheme by TD & RMO	90 days	30/7/2018	27/10/2018	[Gantt chart bars for Comment & approval of TTA scheme by TD & RMO]											
40	Obtain roadwork advice from RMO	14 days	13/11/2018	26/11/2018	[Gantt chart bars for Obtain roadwork advice from RMO]											
41	Liaison with Utility Undertakers	210 days	1/6/2018	27/12/2018	[Gantt chart bars for Liaison with Utility Undertakers]											
42	Obtain most update utility drawings from various utility undertakers	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Obtain most update utility drawings from various utility undertakers]											
43	Liaise with various utility undertakers	180 days	1/7/2018	27/12/2018	[Gantt chart bars for Liaise with various utility undertakers]											
44	Environmental Baseline & Impact Monitoring	109 days	1/6/2018	17/9/2018	[Gantt chart bars for Environmental Baseline & Impact Monitoring]											
45	Appointment of ET	14 days	1/6/2018	14/6/2018	[Gantt chart bars for Appointment of ET]											
46	Approval of ET from EPD	7 days	16/6/2018	22/6/2018	[Gantt chart bars for Approval of ET from EPD]											
47	Preparation of method statement for baseline monitoring by ET	14 days	23/6/2018	6/7/2018	[Gantt chart bars for Preparation of method statement for baseline monitoring by ET]											
48	Submission of Further Environmental Permit to PM for Approval	14 days	23/6/2018	6/7/2018	[Gantt chart bars for Submission of Further Environmental Permit to PM for Approval]											
49	Submission of Further Environmental Permit to EPD for Approval	14 days	7/7/2018	20/7/2018	[Gantt chart bars for Submission of Further Environmental Permit to EPD for Approval]											
50	Preparation of the EM&A manual, management plans & reports by ET	21 days	23/6/2018	13/7/2018	[Gantt chart bars for Preparation of the EM&A manual, management plans & reports by ET]											
51	Verify the EM&A manual, management plans & reports by IEC	14 days	14/7/2018	27/7/2018	[Gantt chart bars for Verify the EM&A manual, management plans & reports by IEC]											
52	Baseline monitoring report submitted to EPD	7 days	28/7/2018	3/8/2018	[Gantt chart bars for Baseline monitoring report submitted to EPD]											
53	Approval of EM&A manual, management plans & reports by EPD before commencement of construction works	45 days	4/8/2018	17/9/2018	[Gantt chart bars for Approval of EM&A manual, management plans & reports by EPD before commencement of construction works]											
54	Tree Works	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Tree Works]											
55	Submission/ Approval of Landscape Specialist	14 days	1/6/2018	14/6/2018	[Gantt chart bars for Submission/ Approval of Landscape Specialist]											
56	Submission of tree survey report	30 days	1/6/2018	30/6/2018	[Gantt chart bars for Submission of tree survey report]											
57	Section 1 of the Works - Completion of all works within Parts A1, A2 and B of the Site except Establishment Works	860 days	29/9/2018	4/2/2021	[Gantt chart bars for Section 1 completion]											

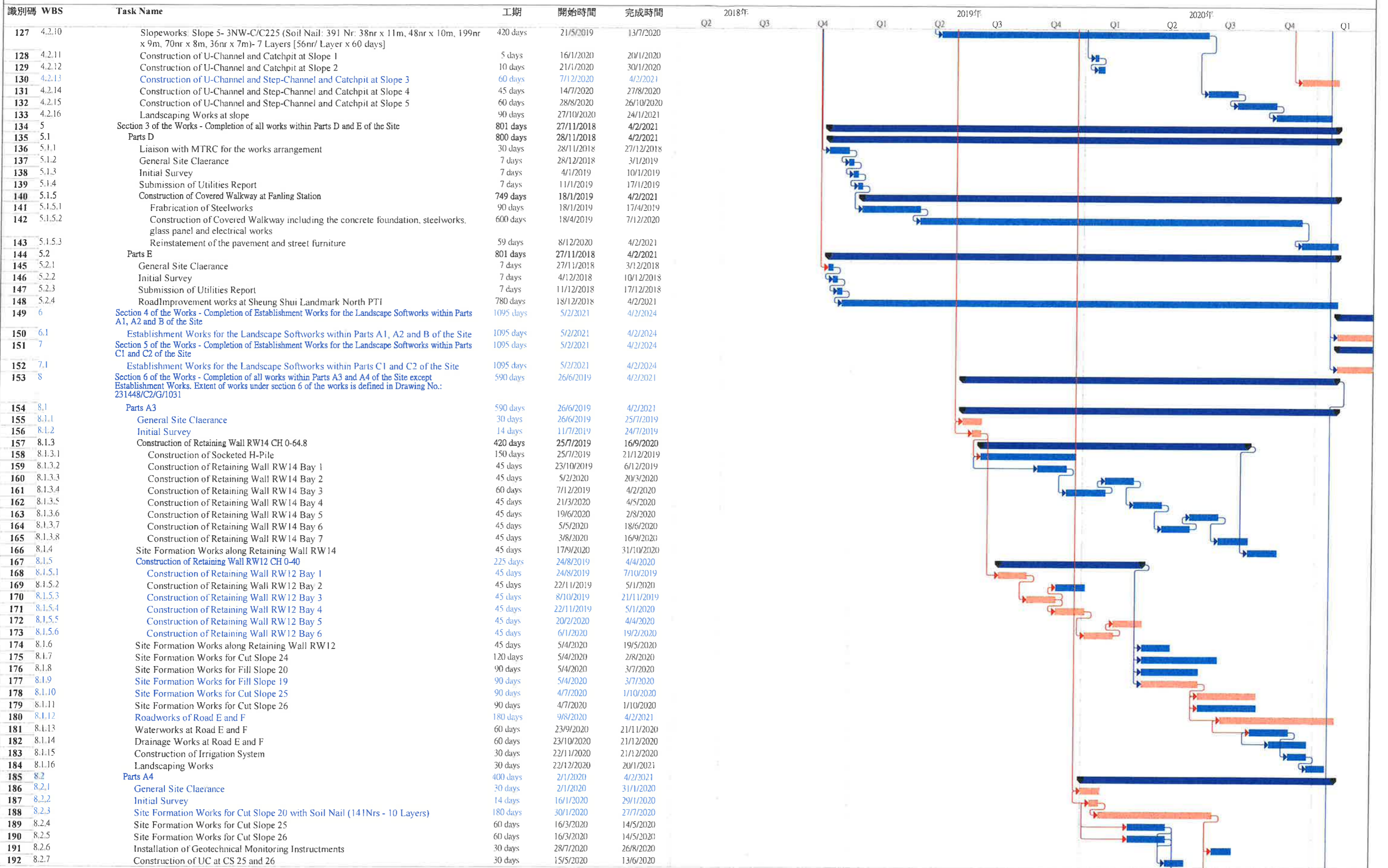
Revision 0 12/6/2018

Task Milestone Project Summary Start-only Critical Progress

Split Summary Duration-only Finish-only Critical Split



Revision 0 12/6/2018	Task	Milestone	Project Summary	Start-only	Critical	Progress
	Split	Summary	Duration-only	Finish-only	Critical Split	



Revision 0 12/6/2018

Task: Blue bar, Milestone: Diamond, Project Summary: Grey bar, Start-only: Thin black bar, Critical: Thick black bar, Progress: Orange bar, Critical Split: Dashed black bar

Split: Dotted line, Summary: Thick black bar, Duration-only: Thin black bar, Finish-only: Thin black bar

識別碼	WBS	Task Name	工期	開始時間	完成時間	2018年				2019年				2020年			
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
193	8.2.8	Construction of UC/ SC at FS 20	60 days	28/7/2020	25/9/2020												
194	8.2.9	Roadworks of Road B	150 days	28/7/2020	24/12/2020												
195	8.2.10	Waterworks at Road B	45 days	11/9/2020	25/10/2020												
196	8.2.11	Drainage Works at Road B	45 days	26/10/2020	9/12/2020												
197	8.2.12	Construction of Irrigation System	30 days	26/10/2020	24/11/2020												
198	8.2.13	Landscaping Works	42 days	25/12/2020	4/2/2021												
199	9	Section 7 of the Works - Completion of Establishment Works for the Landscape Softworks within Parts A3 and A4 of the Site	1095 days	5/2/2021	4/2/2024												
200	9.1	Establishment Works for the Landscape Softworks within Parts A3 and A4 of the Site	1095 days	5/2/2021	4/2/2024												

Appendix B

Our Ref: TCS00944/18/300/L0022

Sang Hing Civil Contractors Co., Ltd
Rm 215A-B, 2/F, Central Services Building
Nan Fung Industrial City
18 Tin Hau Road, Tuen Mun,
New Territories

Attn: Mr. Elvin Lam

26 September 2018
By email & by Post

Dear Sirs,

Re: Contract No. CV/2017/02 - Development of Columbarium at Sandy Ridge Cemetery – Infrastructural Works at Man Kam To Road and Lin Ma Hang Road Construction Works Schedule and Location Plans

I refer to the Construction Works Schedule and Location Plans provided via e-mail on 29 August 2018. We have no comment on the captioned and herein certify the Construction Works Schedule and Location Plans pursuant to Environmental Permit EP-534/2017 Condition 1.9.

Should you have any question or require further information, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

Yours sincerely,
For and on Behalf of
Action-United Environmental Services & Consulting (AUES)



T. W. Tam
Environmental Team Leader
TW/nh

cc CEDD
Arup (RE)
Acuity (IEC)

Mr. Joseph Wong
Mr. Anthony Lau
Mr. Jacky Leung

By-email
By-email
By-email



ACUITY
SUSTAINABILITY
CONSULTING LIMITED



Website: www.acuityhk.com



Unit 1908, iPlace,
Nos. 301-305 Castle Peak Road,
Kwai Chung, New Territories



Tel. : (852) 2698 6835
Fax.: (852) 2698 9383

LAND WORKS DIVISION
CIVIL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
2/F, CIVIL ENGINEERING AND DEVELOPMENT BUILDING
101, PRINCESS MARGARET ROAD
HOMANTIN, KOWLOON
HONG KONG

Attention: Mr. Joseph WONG

24 September 2018

Dear Joseph,

Contract No. CV/2017/02

**Development of Columbarium at Sandy Ridge Cemetery – Infrastructural Works at Man Kam To Road and Lin Ma Hang Road
Construction Works Schedule and Location Plans**

I refer to the email of the contractor on 29 August 2018 concerning the captioned. We have no objection on the attached Construction Works Schedule and Location Plans. We herein verify the Construction Works Schedule and the Location Plans according to section 1.9 of the EP-534/2017.

Yours faithfully,

CH Leung

Ir Leung CH Jacky

Independent Environmental Checker

Cc. CEDD-DPTL/Land Works – Mr. LI Kwok Hung
ARUP – Mr. LEE Davis
ET Leader – Mr. TAM

Appendix C

Contract Arrangement

- Contract No. CV/2016/10
- Contract No. CV/2017/02
- Contract 3 (To be confirmed)

