

Appendix 1.1 Construction Programme

WING TAT CIVIL ENGINEERING CO LTD
 CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
 PROJECT PROGRAMME

ID	Task Name	Constraint Date	Constraint Type	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	Half 1	2023, Half 2	2024, Half 1	2024, Half 2	2025, Half 1	2025, Half 2	2026, Half 1	2026, Half 2	2027, Half 1																														
															A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	
1	Starting date	#####	Earlier Than	1 day	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	0 days																																									
2	Access date	NA	As Possible	270 days	Mon 23/5/29	Fri 24/2/23	Mon 23/5/29	Fri 24/2/23	Fri 25/12/5	Mon 26/8/31	920 days																																									
3	Portion A	NA	As Possible	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 25/12/5	Mon 26/8/31	920 days																																									
4	Portion B	NA	As Possible	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Tue 26/2/3	Mon 26/8/31	980 days																																									
5	Portion C1 & C2	NA	As Possible	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 25/12/5	Mon 26/8/31	920 days																																									
6	Portion C3	NA	As Possible	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 26/8/31	Mon 26/8/31	1190 days																																									
7	Portion D	NA	As Possible	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Tue 26/2/3	Mon 26/8/31	980 days																																									
8	Portion E1	NA	As Possible	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 26/8/31	Mon 26/8/31	1190 days																																									
9	Portion E2	NA	As Possible	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 25/12/5	Mon 26/8/31	920 days																																									
10	Completion Date	NA	As Possible	1155 days	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	0 days																																									
11	Section I - Drainage Improvement Works at Sung Shan New Village	Thu 26/5/28	o Later Than	1095 days	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	0 days																																									
12	Section II - Drainage Improvement Works at Tai Wo	Tue 25/8/26	o Later Than	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days																																									
13	Section III - Drainage Improvement Works at Lin Fa Tei (except flood wall construction and drainage improvement works along Kam Sheung Road)	Mon 26/7/27	Finish No Later Than	1155 days	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	0 days																																									
14	Section IV - Drainage Improvement Works at Ha Che (except pipe laying works by trenchless method and pipe rehabilitation works across Fan Kam Road)	Thu 26/5/28	Finish No Later Than	1095 days	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	0 days																																									
15	Section V - Drainage Improvement Works at Shan Ha Tsuen	Mon 26/1/26	o Later Than	973 days	Tue 23/5/30	Mon 26/1/26	Tue 23/5/30	Mon 26/1/26	Tue 23/5/30	Mon 26/1/26	0 days																																									
16	Section VI - Flood Wall Construction and Drainage Improvement Works along Kam Sheung Road at Lin Fa Tei	Tue 25/8/26	Finish No Later Than	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days																																									
17	Section VII - Pipe Laying Works by Trenchless Method and Pipe Rehabilitation Works across Fan Kam Road and Upstream Channel and Downstream Box Culvert Construction Works (Chainage 626.224m - 678.859m) at Ha Che	Tue 25/8/26	Finish No Later Than	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days																																									
39	Planned Completion Day of whole of the works	NA	As Possible	370 days	Tue 25/8/26	Mon 26/8/31	Tue 25/8/26	Mon 26/8/31	Tue 25/8/26	Mon 26/8/31	0 days																																									
40	Section I - Drainage Improvement Works at Sung Shan New Village	NA	As Possible	35 days	Fri 26/5/29	Thu 26/7/2	Fri 26/5/29	Thu 26/7/2	Fri 26/5/29	Thu 26/7/2	0 days																																									
41	EOT - Inclement weather	Thu 26/7/2	o Later Than	35 days	Fri 26/5/29	Thu 26/7/2	Fri 26/5/29	Thu 26/7/2	Fri 26/5/29	Thu 26/7/2	0 days																																									
42	Section II - Drainage Improvement Works at Tai Wo	NA	As Possible	251 days	Wed 25/8/27	Mon 26/5/4	Wed 25/8/27	Mon 26/5/4	Wed 25/8/27	Mon 26/5/4	0 days																																									
43	EOT - Blockade of access by others	Mon 26/5/4	o Later Than	251 days	Wed 25/8/27	Mon 26/5/4	Wed 25/8/27	Mon 26/5/4	Wed 25/8/27	Mon 26/5/4	0 days																																									
44	Section III - Drainage Improvement Works at Lin Fa Tei (except flood wall construction and drainage improvement works along Kam Sheung Road)	NA	As Soon As Possible	35 days	Tue 26/7/28	Mon 26/8/31	Tue 26/7/28	Mon 26/8/31	Tue 26/7/28	Mon 26/8/31	0 days																																									
45	EOT - Inclement weather	Mon 26/8/31	o Later Than	35 days	Tue 26/7/28	Mon 26/8/31	Tue 26/7/28	Mon 26/8/31	Tue 26/7/28	Mon 26/8/31	0 days																																									
46	Section IV - Drainage Improvement Works at Ha Che (except pipe laying works by trenchless method and pipe rehabilitation works across Fan Kam Road)	NA	As Soon As Possible	35 days	Fri 26/5/29	Thu 26/7/2	Fri 26/5/29	Thu 26/7/2	Fri 26/5/29	Thu 26/7/2	0 days																																									
47	EOT - Inclement weather	Thu 26/7/2	o Later Than	35 days	Fri 26/5/29	Thu 26/7/2	Fri 26/5/29	Thu 26/7/2	Fri 26/5/29	Thu 26/7/2	0 days																																									
48	Section V - Drainage Improvement Works at Shan Ha Tsuen	NA	As Possible	35 days	Tue 26/1/27	Mon 26/3/2	Tue 26/1/27	Mon 26/3/2	Tue 26/1/27	Mon 26/3/2	0 days																																									
49	EOT - Inclement weather	Mon 26/3/2	o Later Than	35 days	Tue 26/1/27	Mon 26/3/2	Tue 26/1/27	Mon 26/3/2	Tue 26/1/27	Mon 26/3/2	0 days																																									
50	Section VI - Flood Wall Construction and Drainage Improvement Works along Kam Sheung Road at Lin Fa Tei	NA	As Soon As Possible	90 days	Wed 25/8/27	Mon 25/11/24	Wed 25/8/27	Mon 25/11/24	Wed 25/8/27	Mon 25/11/24	0 days																																									
51	EOT - Difficulty/Infeasibility for construction of 1650mm dia. pipe at Kam Sheung Road	#####	o Later Than	90 days	Wed 25/8/27	Mon 25/11/24	Wed 25/8/27	Mon 25/11/24	Wed 25/8/27	Mon 25/11/24	0 days																																									
52	Section VII - Pipe Laying Works by Trenchless Method and Pipe Rehabilitation Works across Fan Kam Road and Upstream Channel and Downstream Box Culvert Construction Works (Chainage 626.224m - 678.859m) at Ha Che	Tue 25/8/26	Finish No Later Than	0 days	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	0 days																																									
53																																																				
54	Project establishment	NA	As Possible	307 days	Mon 23/5/15	Sat 24/3/16	Mon 23/5/15	Sat 24/3/16	Mon 23/5/15	Mon 26/8/31	0 days																																									
55	Project Manager's Accommodation	NA	As Possible	209 days																																																

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ID	Task Name	Constraint Date	Constraint Type	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	Half 1	2023, Half 2	2024, Half 1	2024, Half 2	2025, Half 1	2025, Half 2	2026, Half 1	2026, Half 2	2027, Half 1	
28	HC05 CH.A284.946-CHA339.556 (Ex. CH Str. Assessment)	Thu 26/7/2	o Later Than	60 days	Fri 24/3/8	Mon 24/5/6	Fri 24/3/8	Mon 24/5/6	Mon 26/5/4	Thu 26/7/2	787 days	0	19										
29	(Deleted in PMI) Demolish & relocate wall, gate YLL797/2	NA	As Possible	30 days	Tue 23/12/26	Wed 24/1/24	Tue 23/12/26	Wed 24/1/24	Sun 26/3/22	Mon 26/4/20	817 days	0	6										
30	(Deleted in PMI) HC01 CH.A11.13-CHA18.14	NA	As Possible	45 days	Thu 24/1/25	Sat 24/3/9	Thu 24/1/25	Sat 24/3/9	Tue 26/4/21	Thu 26/6/4	817 days	5	29										
31	(Deleted in PMI) Pedestrian & Vehicular Crossing no. 1 (Box Culvert no. 1)	Thu 26/7/2	o Later Than	28 days	Sun 24/3/10	Sat 24/4/6	Sun 24/3/10	Sat 24/4/6	Fri 26/6/5	Thu 26/7/2	817 days	0	30										
32	Pedestrian & Vehicular Crossing no. 2 (Box Culvert no. 2) [A]	Thu 26/7/2	o Later Than	28 days	Thu 24/2/8	Wed 24/3/6	Thu 24/2/8	Wed 24/3/6	Thu 24/2/8	Wed 24/3/6	0 days	0	26,25,15FS-14										
33	HC02 CH.A18.14-CH.A120.261 (BC1-2)	NA	As Possible	282 days	Thu 23/10/19	Fri 24/7/26	Thu 23/10/19	Fri 24/7/26	Thu 24/3/7	Mon 26/8/31	140 days	0											
34	EWN/007 NCE/001 Ambiguity on Drawings	Thu 23/10/19	Earlier Than	30 days	Thu 23/10/19	Fri 23/11/17	Thu 23/10/19	Fri 23/11/17	Mon 26/7/13	Tue 26/8/11	998 days	0											
35	C9 tender for Precast units [A]	NA	As Possible	20 days	Sat 23/11/18	Thu 23/12/7	Sat 23/11/18	Thu 23/12/7	Wed 26/8/12	Mon 26/8/31	998 days	0	34										
36	Sheetpiling & Temp. Drainage Diversion [A]	NA	As Possible	44 days	Thu 24/3/7	Fri 24/4/19	Thu 24/3/7	Fri 24/4/19	Thu 24/3/7	Fri 24/4/19	0 days	1	32										
37	Excavation and Lateral Support [A]	NA	As Possible	35 days	Tue 24/4/2	Mon 24/5/6	Tue 24/4/2	Mon 24/5/6	Tue 24/4/2	Mon 24/5/6	0 days	1	36FS-18 days										
38	Walls	NA	As Possible	40 days	Fri 24/4/19	Tue 24/5/28	Fri 24/4/19	Tue 24/5/28	Fri 24/4/19	Tue 24/5/28	0 days	0	37FS-18 days										
39	Install precast portion (double beam)	NA	As Possible	40 days	Fri 24/4/19	Tue 24/5/28	Fri 24/4/19	Tue 24/5/28	Fri 24/4/19	Tue 24/5/28	0 days	0	37FS-18 days										
40	Ground Beams	NA	As Possible	40 days	Sat 24/5/4	Wed 24/6/12	Sat 24/5/4	Wed 24/6/12	Sat 24/5/4	Wed 24/6/12	0 days	0											
41	Rebar Fixing	NA	As Possible	30 days	Sat 24/5/4	Sun 24/6/2	Sat 24/5/4	Sun 24/6/2	Sat 24/5/4	Sun 24/6/2	0 days	1	39FS-25 days										
42	Formwork Erection and Cast-in items	NA	As Possible	30 days	Tue 24/5/14	Wed 24/6/12	Tue 24/5/14	Wed 24/6/12	Tue 24/5/14	Wed 24/6/12	0 days	1	41FS-20 days										
43	Concreting	NA	As Possible	1 day	Fri 24/5/24	Fri 24/5/24	Fri 24/5/24	Fri 24/5/24	Fri 24/5/24	Fri 24/5/24	0 days	0	42FS-20 days										
44	Other in-situ portions	NA	As Possible	40 days	Sat 24/5/25	Wed 24/7/3	Sat 24/5/25	Wed 24/7/3	Sat 24/5/25	Wed 24/7/3	0 days	0											
45	Rebar Fixing	NA	As Possible	30 days	Sat 24/5/25	Sun 24/6/23	Sat 24/5/25	Sun 24/6/23	Sat 24/5/25	Sun 24/6/23	0 days	1	43										
46	Formwork Erection and Cast-in items	NA	As Possible	30 days	Tue 24/6/4	Wed 24/7/3	Tue 24/6/4	Wed 24/7/3	Tue 24/6/4	Wed 24/7/3	0 days	1	45FS-20 days										
47	Concreting	NA	As Possible	1 day	Fri 24/6/14	Fri 24/6/14	Fri 24/6/14	Fri 24/6/14	Fri 24/6/14	Fri 24/6/14	0 days	0	46FS-20 days										
48	Backfilling and Compaction	NA	As Possible	28 days	Sat 24/6/15	Fri 24/7/12	Sat 24/6/15	Fri 24/7/12	Sat 24/6/15	Fri 24/7/12	0 days	0	47										
49	Removal of Sheetpiles	NA	As Possible	28 days	Sat 24/6/29	Fri 24/7/26	Sat 24/6/29	Fri 24/7/26	Sat 24/6/29	Fri 24/7/26	0 days	0	48FS-14 days										
50	Animal Escape Ramp	Thu 26/7/2	o Later Than	28 days	Sat 24/7/13	Fri 24/8/9	Sat 24/7/13	Fri 24/8/9	Fri 26/6/5	Thu 26/7/2	692 days	0	49FS-14 days										
51	Demolish & relocate toilet YLL797/5 [A]	NA	As Possible	10 days	Sat 24/7/13	Mon 24/7/22	Sat 24/7/13	Mon 24/7/22	Sat 24/7/13	Mon 24/7/22	0 days	0	49FS-14 days										
52	Demolish & relocate container YLL797/6 [A]	NA	As Possible	10 days	Sat 24/7/13	Mon 24/7/22	Sat 24/7/13	Mon 24/7/22	Sat 24/7/13	Mon 24/7/22	0 days	0	49FS-14 days										
53	Demolish & relocate porch YLL797/7 [A]	NA	As Possible	10 days	Sat 24/7/13	Mon 24/7/22	Sat 24/7/13	Mon 24/7/22	Sat 24/7/13	Mon 24/7/22	0 days	0	49FS-14 days										
54	Demolish & relocate fencing, retaining wall YLL797/10,11 [A]	NA	As Possible	10 days	Sat 24/7/13	Mon 24/7/22	Sat 24/7/13	Mon 24/7/22	Sat 24/7/13	Mon 24/7/22	0 days	0	49FS-14 days										
55	HC03 CH.A126.235-CH.A187.706 (BC2-3)	NA	As Possible	122 days	Mon 24/7/8	Wed 24/11/6	Mon 24/7/8	Wed 24/11/6	Mon 24/7/8	Wed 24/11/6	0 days	0											
56	Sheetpiling & Temp. Drainage Diversion	NA	As Possible	28 days	Mon 24/7/8	Sun 24/8/4	Mon 24/7/8	Sun 24/8/4	Mon 24/7/8	Sun 24/8/4	0 days	2	51FS-15 days,5										
57	Excavation and Lateral Support	NA	As Possible	28 days	Mon 24/7/22	Sun 24/8/18	Mon 24/7/22	Sun 24/8/18	Mon 24/7/22	Sun 24/8/18	0 days	2	56FS-14 days										
58	Walls	NA	As Possible	35 days	Mon 24/8/5	Sun 24/9/8	Mon 24/8/5	Sun 24/9/8	Mon 24/8/5	Sun 24/9/8	0 days	0	57FS-14 days										
59	Install precast portion (double beam)	NA	As Possible	35 days	Mon 24/8/5	Sun 24/9/8	Mon 24/8/5	Sun 24/9/8	Mon 24/8/5	Sun 24/9/8	0 days	0	57FS-14 days										
60	Ground Beams	NA	As Possible	30 days	Thu 24/8/15	Fri 24/9/13	Thu 24/8/15	Fri 24/9/13	Thu 24/8/15	Fri 24/9/13	0 days	0											
61	Rebar Fixing	NA	As Possible	20 days	Thu 24/8/15	Tue 24/9/3	Thu 24/8/15	Tue 24/9/3	Thu 24/8/15	Tue 24/9/3	0 days	2	59FS-25 days										
62	Formwork Erection and Cast-in items	NA	As Possible	20 days	Sun 24/8/25	Fri 24/9/13	Sun 24/8/25	Fri 24/9/13	Sun 24/8/25	Fri 24/9/13	0 days	2	61FS-10 days										
63	Concreting	NA	As Possible	1 day	Wed 24/9/4	Wed 24/9/4	Wed 24/9/4	Wed 24/9/4	Wed 24/9/4	Wed 24/9/4	0 days	0	62FS-10 days										
64	Other in-situ portions	NA	As Possible	30 days	Thu 24/9/5	Fri 24/10/4	Thu 24/9/5	Fri 24/10/4	Thu 24/9/5	Fri 24/10/4	0 days	0											
65	Rebar Fixing	NA	As Possible	20 days	Thu 24/9/5	Tue 24/9/24	Thu 24/9/5	Tue 24/9/24	Thu 24/9/5	Tue 24/9/24	0 days	2	63										
66	Formwork Erection and Cast-in items	NA	As Possible	20 days	Sun 24/9/15	Fri 24/10/4	Sun 24/9/15	Fri 24/10/4	Sun 24/9/15	Fri 24/10/4	0 days	2	65FS-10 days										
67	Concreting	NA	As Possible	1 day	Wed 24/9/25	Wed 24/9/25	Wed 24/9/25	Wed 24/9/25	Wed 24/9/25	Wed 24/9/25	0 days	0	66FS-10 days										
68	Backfilling and Compaction	NA	As Possible	28 days	Thu 24/9/26	Wed 24/10/23	Thu 24/9/26	Wed 24/10/23	Thu 24/9/26	Wed 24/10/23	0 days	0	67										
69	Removal of Sheetpiles	NA	As Possible	28 days	Thu 24/10/10	Wed 24/11/6	Thu 24/10/10	Wed 24/11/6	Thu 24/10/10	Wed 24/11/6	0 days	0	68FS-14 days										
70	Pedestrian & Vehicular Crossing no. 1 (Box Culvert no. 3)	NA	As Possible	40 days	Thu 24/10/24	Mon 24/12/2	Thu 24/10/24	Mon 24/12/2	Thu 24/10/24	Mon 24/12/2	0 days	0	69FS-14 days										
71	Demolish & relocate drainage channel YLL797/12	NA	As Possible	20 days	Tue 24/11/19	Sun 24/12/8	Tue 24/11/19	Sun 24/12/8	Tue 24/11/19	Sun 24/12/8	0 days	0	70FS-14 days										
72	HC04 CH.A195.853-CH.A284.946 (BC3-Ex. CH)	NA	As Possible	127 days	Sun 24/11/24	Sun 25/3/30	Sun 24/11/24	Sun 25/3/30	Sun 24/11/24	Sun 25/3/30	0 days	0											
73	Sheetpiling & Temp. Drainage Diversion	NA	As Possible	30 days	Sun 24/11/24	Mon 24/12/23	Sun 24/11/24	Mon 24/12/23	Sun 24/11/24	Mon 24/12/23	0 days	2	71FS-15 days										
74	Excavation and Lateral Support	NA	As Possible	30 days	Mon 24/12/9	Tue 25/1/7	Mon 24/12/9	Tue 25/1/7	Mon 24/12/9	Tue 25/1/7	0 days	2	73FS-15 days										
75	Ground and Edge Beams	NA	As Possible	55 days	Tue 24/12/24	Sun 25/2/16	Tue 24/12/24	Sun 25/2/16	Tue 24/12/24	Sun 25/2/16	0 days	0											
76	Install precast portion (ground beam)	NA	As Possible	40 days	Tue 24/12/24	Sat 25/2/1	Tue 24/12/24	Sat 25/2/1	Tue 24/12/24	Sat 25/2/1	0 days	0	74FS-15 days										
77	Rebar Fixing	NA	As Possible	30 days	Wed 25/1/8	Thu 25/2/6	Wed 25/1/8	Thu 25/2/6	Wed 25/1/8	Thu 25/2/6	0 days	2	76FS-25 days										
78	Formwork Erection and Cast-in items	NA	As Possible	30 days	Sat 25/1/18	Sun 25/2/16	Sat 25/1/18	Sun 25/2/16	Sat 25/1/18	Sun 25/2/16	0 days	2	77FS-20 days										
79	Concreting	NA	As Possible	1 day	Tue 25/1/28	Tue 25/1/28	Tue 25/1/28	Tue 25/1/28	Tue 25/1/28	Tue 25/1/28	0 days	0	78FS-20 days										
80	Walls	NA	As Possible	40 days	Wed 25/1/29	Sun 25/3/9	Wed 25/1/29	Sun 25/3/9	Wed 25/1/29	Sun 25/3/9	0 days	0											
81	Rebar Fixing	NA	As Possible	30 days	Wed 25/1/29	Thu 25/2/27	Wed 25/1/29	Thu 25/2/27	Wed 25/1/29	Thu 25/2/27	0 days	2	79										
82	Formwork Erection and Cast-in items	NA	As Possible	30 days	Sat 25/2/8	Sun 25/3/9	Sat 25/2/8	Sun 25/															

