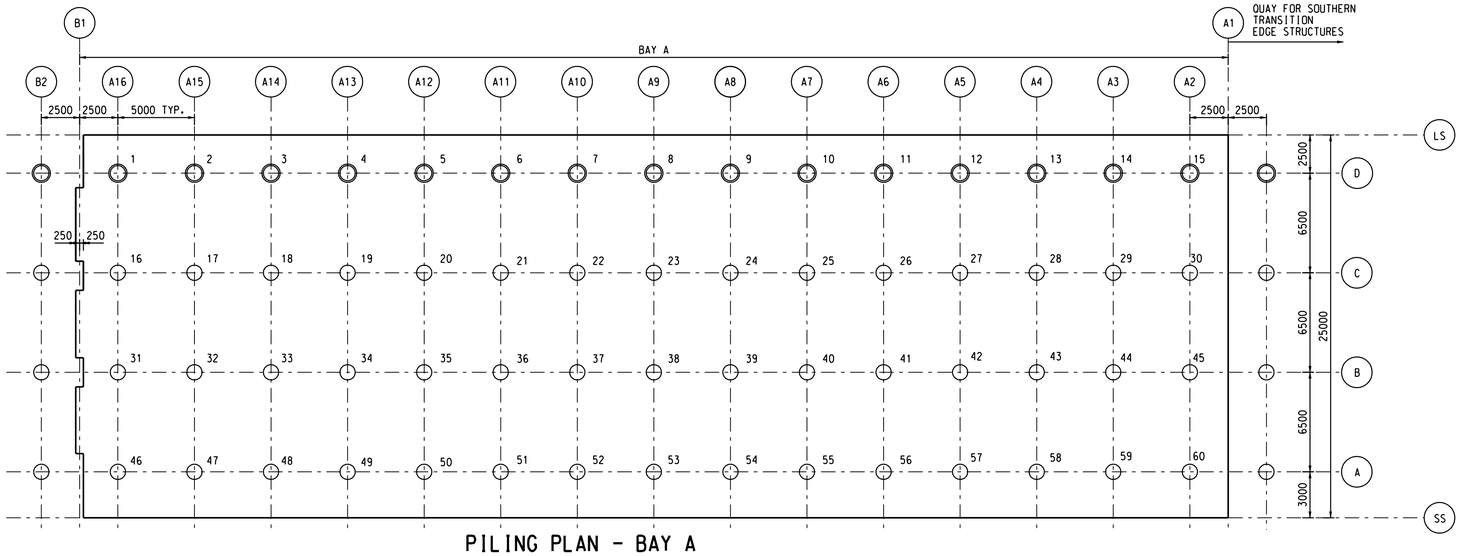
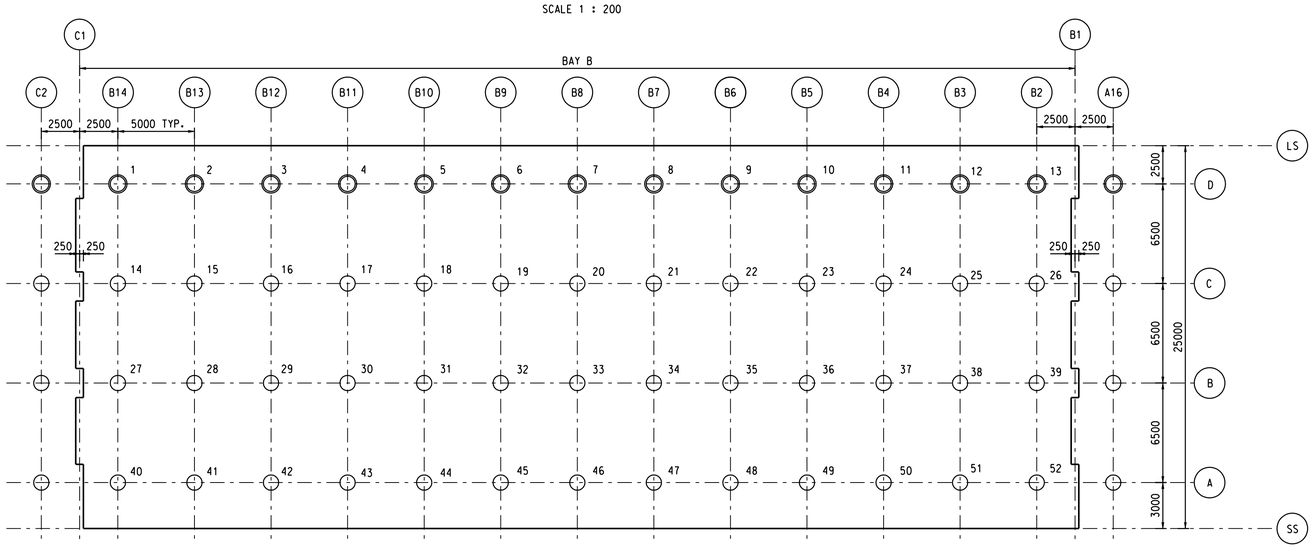


PILING PLAN - BAY A

SCALE 1 : 200



PILING PLAN - BAY B
(BAYS C TO F AND H TO L SIMILAR)

SCALE 1 : 200

TENTATIVE PILE TOE LEVEL

BAY	PILE NO.	AVG. PILE TOE LEVEL (mPD)
A	1-8 16-23 31-38 46-53	-30
	9-15 24-30 39-45 54-60	-24
B	1-52	-40
C	1-52	-43
D	1-52	-40
E	1-52	-38
F	1-52	-41
G	1-40	-47
H	1-52	-50
I	1-52	-50
J	1-52	-52
K	1-52	-53
L	1-52	-61
M	1-60	-58

PILE LOADING SCHEDULE

BAY	PILE TYPE	VERTICAL LOAD (kN)					MOMENT(kNm)	ALLOWABLE WORKING LOAD (kN)	
		DEAD LOAD	DEAD LOAD + LIVE LOAD (OPERATION)	DEAD LOAD + LIVE LOAD (EXTREME)	DEAD LOAD + UPLIFT (OPERATION)	DEAD LOAD + UPLIFT (EXTREME)		COMPRESSION	TENSION
A	a1	830	2850	2110	-390	- 30	500	2850	390
	b1	710	2510	2090	0	- 260	1140	2510	260
	c1	680	2980	2190	-200	- 50	2790	2980	200
B.C.D.E	a	790	2570	1900	0	- 130	420	2570	130
	a2	830	2860	1960	-420	- 140	440	2860	420
	b	710	2490	1930	0	- 250	940	2490	250
	c	680	2950	2040	-150	- 190	2410	2950	190
F	a	790	2570	1900	0	0	420	2570	0
	a2	830	2860	1960	-420	0	440	2860	420
	b	710	2490	1930	0	- 250	940	2490	250
	c	680	2950	2040	-150	- 40	2410	2950	150
G	a	790	2570	1950	0	0	380	2570	0
	b	680	2410	1930	0	- 260	790	2410	260
	c	680	2720	2050	0	- 40	1950	2720	40
H.I.K	a	830	2860	1960	-420	0	440	2860	420
	b	710	2490	1930	0	- 250	940	2490	250
	c	680	2950	2040	-150	- 40	2410	2950	150
J.L	a	830	2860	1960	-420	- 140	440	2860	420
	b	710	2490	1930	0	- 250	940	2490	250
	c	680	2950	2040	-150	- 190	2410	2950	190
M	a	790	2850	2110	-390	- 30	500	2850	390
	b	710	2510	2090	0	- 260	1140	2510	260
	c	680	2980	2190	-200	- 50	2790	2980	200

TABLE 1: QUAY DECK, PILE TYPE AND LOCATION

BAY NO. \ PILE TYPE / PILE NO.	SEASIDE VERTICAL PILE (GRID LINE A)			INTERNAL VERTICAL PILE (GRID LINES B & C)		LANDSIDE VERTICAL PILE (GRID LINE D)	
	a	a1	a2	b	b1	c	c1
A	-	46-60	-	-	16-45	-	1-15
B.C.D.E	41,44-48 ,51	-	40,42,43 ,49,50,52	14-39	-	1-13	-
F	41-51	-	40,52	14-39	-	1-13	-
G	31-40	-	-	11-30	-	1-10	-
H.I.K	40-52	-	-	14-39	-	1-13	-
J.L	40-52	-	-	14-39	-	1-13	-
M	46-60	-	-	16-45	-	1-15	-

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. 412 TO 414.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
3. ALL LEVELS ARE IN METRES WITH REFERENCE TO PRINCIPAL DATUM.
4. FOR PILE TYPES AND LOCATIONS REFER TABLE 1.

PILING NOTES:

1. STEEL TUBULAR PILES SHALL BE GRADE S275 OR ABOVE TO BS EN 10113 UNLESS SPECIFIED OTHERWISE.
2. PILES SHALL BE DRIVEN OPEN-ENDED.
3. ALL PILES SHALL BE SUPPORTED AT TEMPORARY STAGE TO SUSTAIN ALL TEMPORARY LOADINGS THAT MAY BE EXPECTED DURING CONSTRUCTION AND LOAD TESTING.
4. INFILL CONCRETE TO PILES SHALL BE GRADE 45/20.
5. INTERNAL SURFACES OF PILE SHALL BE CLEANED PRIOR TO PLACING OF CONCRETE INFILL. WHEN POURING THE INFILL PLUG AT THE TOP OF EACH PILE THIS SECTION OF PILE (WHERE CONCRETE IS TO BE PLACED) SHALL BE PUMPED DRY PRIOR TO CONCRETING.
6. MINIMUM COVER TO REINFORCEMENT TO BE 75mm.
7. THE PILE FORCES AND MOMENTS SHOWN IN THE PILE LOADING SCHEDULE REFER TO VALUES AT TOP OF PILE HEAD.
8. THE TENTATIVE PILE TOE LEVELS ARE ESTIMATED BASED ON LIMITED GEOLOGICAL INFORMATION AND ARE INDICATIVE ONLY. THE ACTUAL PILE TOE LEVELS SHALL BE DETERMINED ON SITE TO SUIT THE GEOLOGICAL CONDITIONS.

LEGEND:

20—PILE NO. — 1000mm O.D. x 19mm THICK VERTICAL STEEL TUBULAR PILE

1—PILE NO. — 1200mm O.D.x 21mm THICK VERTICAL STEEL TUBULAR PILE

LS — LANDSIDE

SS — SEASIDE

REV. 修訂	DESCRIPTION 內容摘要	D.C.	P.C. CHECKED 查核	DATE 日期

Civil Engineering and Development Department 土木工程拓展署
KOWLOON DEVELOPMENT OFFICE 九龍拓展處

KAI TAK DEVELOPMENT
ENGINEERING STUDY CUM DESIGN AND CONSTRUCTION OF ADVANCE WORKS-INVESTIGATION, DESIGN AND CONSTRUCTION

SITE FORMATION CUM MARINE WORKS

EDGE STRUCTURES

QUAY - PILING PLAN

SHEET 1 OF 2

MAUNSELL AECOM
Maunsell Consultants Asia Ltd.
茂盛(亞洲)工程顧問有限公司

DRG.NO. 圖紙編號: 411

DESIGNED BY 設計	AGREEMENT NO. 合約編號	P. Dir. APPROVED 我准人
J.L.	CE35/2006 (CE)	
DRAWN BY 繪圖 T.H.	STATUS 階段	
SCALE 比例 A1 AS SHOWN		
DIMENSIONS ARE IN 尺寸單位 MILLIMETRES	© COPYRIGHT RESERVED 版權所有	

Plot File by :- 2007-10-24 JIANGJ

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