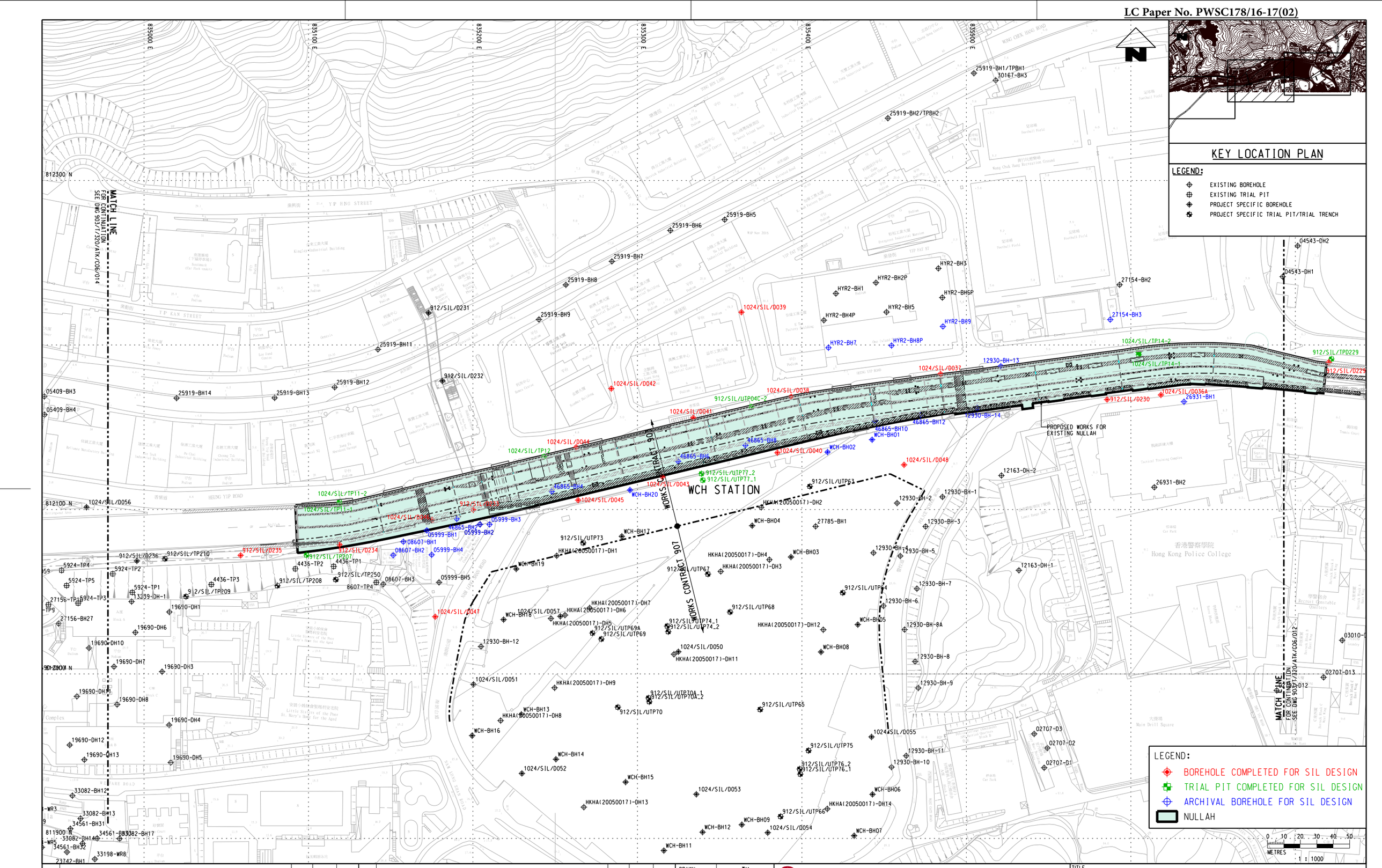
835000 E
835100 E
835200 E
835300 E
835400 E
835500 E
812300 N
812100 N
811900 N
MATCH LINE
FOR CONTINUATION
SEE DWG 903/1/320/ATK/CG6/014
MATCH LINE
FOR CONTINUATION
SEE DWG 903/1/320/ATK/CG6/012
YIP HING STREET
YIP KAN STREET
HEUNG YIP ROAD
WORKS CONTRACT 907
WCH STATION
25919-BH1/TPBH1
30167-BH3
25919-BH2/TPBH2
25919-BH5
25919-BH6
25919-BH7
25919-BH8
25919-BH9
25919-BH11
25919-BH12
25919-BH13
25919-BH14
912/SIL/D231
912/SIL/D232
05409-BH3
05409-BH4
1024/SIL/D056
1024/SIL/TP11-2
1024/SIL/TP11-1
912/SIL/D236
912/SIL/TP210
912/SIL/D235
912/SIL/TP207
912/SIL/D234
5924-TP4
5924-TP2
5924-TP5
5924-TP1
5924-TP3
4436-TP2
4436-TP1
4436-TP3
13239-DH-1
912/SIL/TP208
912/SIL/TP209
912/SIL/TP250
08607-TP4
08607-BH3
08607-BH1
08607-BH2
05999-BH4
05999-BH5
05999-BH3
05999-BH1
05999-BH2
46865-BH4
46865-BH5
1024/SIL/D045
1024/SIL/D044
1024/SIL/TP12
1024/SIL/D043
WCH-BH20
912/SIL/UTP77_2
912/SIL/UTP77_1
46865-BH8
46865-BH6
1024/SIL/D041
1024/SIL/D042
912/SIL/UTP04C-2
1024/SIL/D038
1024/SIL/D040
WCH-BH02
46865-BH10
WCH-BH01
46865-BH12
1024/SIL/D048
1024/SIL/D037
12930-BH-13
12930-BH-14
1024/SIL/TP14-2
1024/SIL/TP14-1
912/SIL/TPD229
912/SIL/D229
912/SIL/D230
1024/SIL/D036A
26931-BH1
PROPOSED WORKS FOR
EXISTING NULLAH
04543-DH2
04543-DH1
27154-BH2
27154-BH3
HYR2-BH3
HYR2-BH2P
HYR2-BH1
HYR2-BH6P
HYR2-BH4P
HYR2-BH5
HYR2-BH9
HYR2-BH7
HYR2-BH8P
1024/SIL/D039
912/SIL/UTP63
12163-DH-2
26931-BH2
12930-DH-2
12930-BH-1
HKHA(20050017)-DH2
WCH-BH04
27785-BH1
12930-BH-3
12930-BH-4
12930-BH-5
12163-DH-1
912/SIL/UTP67
HKHA(20050017)-DH4
HKHA(20050017)-DH3
WCH-BH03
912/SIL/UTP73
WCH-BH17
HKHA(20050017)-DH1
WCH-BH19
912/SIL/UTP64
12930-BH-7
12930-BH-6
1024/SIL/D047
1024/SIL/D057
WCH-BH18
HKHA(20050017)-DH7
HKHA(20050017)-DH6
HKHA(20050017)-DH5
912/SIL/UTP68
912/SIL/UTP74_1
912/SIL/UTP74_2
HKHA(20050017)-DH12
WCH-BH05
12930-BH-8A
912/SIL/UTP69A
912/SIL/UTP69
12930-BH-12
1024/SIL/D050
HKHA(20050017)-DH11
WCH-BH08
12930-BH-8
12930-BH-9
1024/SIL/D051
HKHA(20050017)-DH9
912/SIL/UTP70A_1
912/SIL/UTP70A_2
912/SIL/UTP65
WCH-BH13
HKHA(20050017)-DH8
912/SIL/UTP70
WCH-BH16
1024/SIL/D055
912/SIL/UTP75
12930-BH-11
12930-BH-10
WCH-BH14
1024/SIL/D052
912/SIL/UTP76_2
912/SIL/UTP76_1
WCH-BH15
1024/SIL/D053
WCH-BH06
HKHA(20050017)-DH13
HKHA(20050017)-DH14
912/SIL/UTP66
WCH-BH09
WCH-BH12
1024/SIL/D054
WCH-BH07
WCH-BH11
02707-D3
02707-D2
02707-D1
02707-D13
02707-D12
03010-D
19690-DH1
19690-DH6
19690-DH10
19690-DH7
19690-DH3
19690-DH11
19690-DH8
19690-DH4
19690-DH12
19690-DH13
19690-DH5
27156-BH27
27156-TP9
33082-BH12
33082-BH13
34561-BH31
33082-BH14
34561-BH17
34561-BH32
33198-WR8
23742-BH1
WR3
WR5
HKHA(20050017)-DH10
HKHA(20050017)-DH15
HKHA(20050017)-DH16
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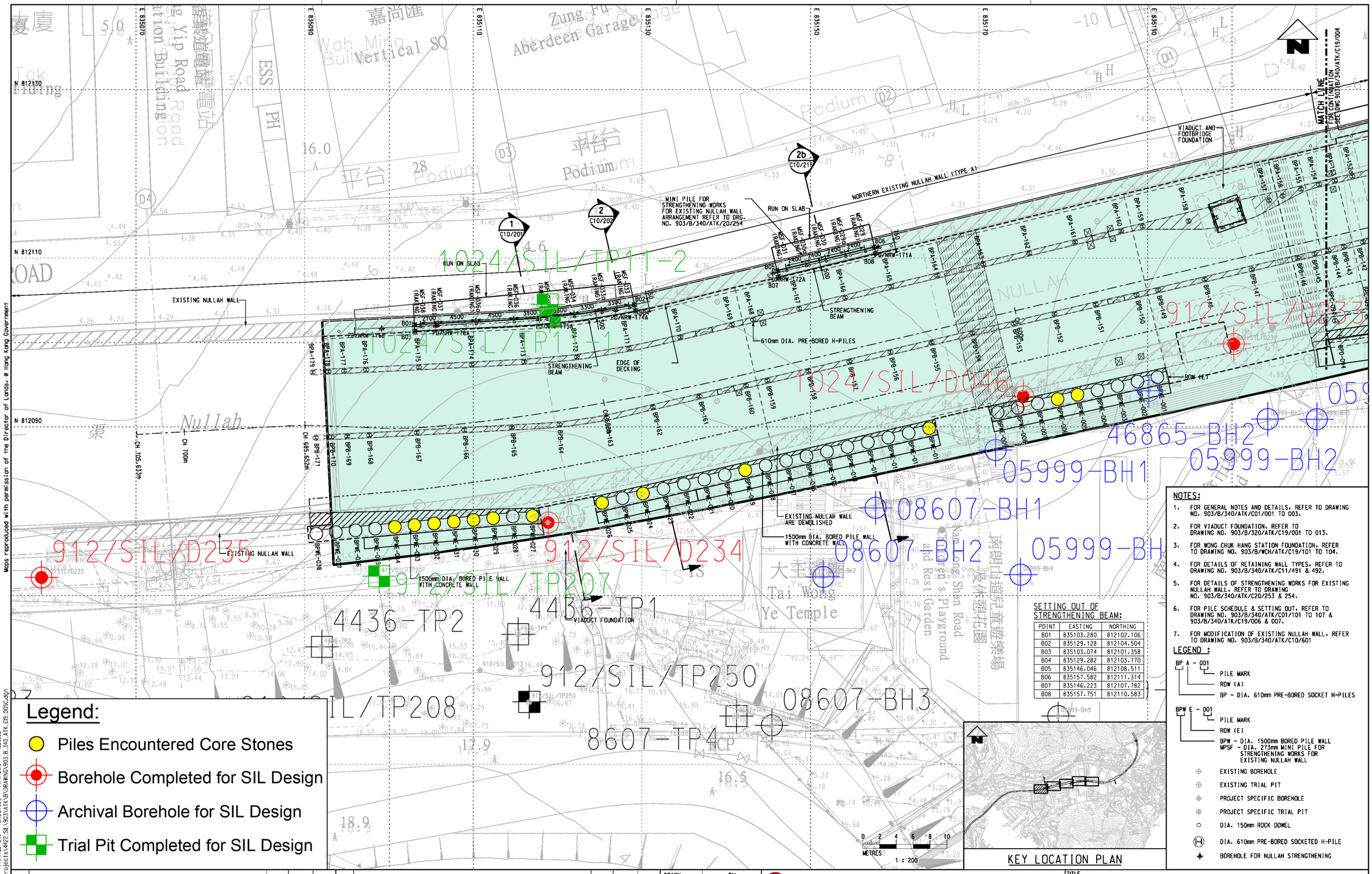

Legend:

- Piles Encountered Core Stones
- Borehole Completed for SIL Design
- Archival Borehole for SIL Design
- Trial Pit Completed for SIL Design

SETTING OUT OF STRENGTHENING BEAM:

POINT	EASTING	NORTHING
B01	835103.280	812102.106
B02	835129.128	812104.504
B03	835103.074	812101.358
B04	835129.282	812103.770
B05	835146.046	812108.511
B06	835157.582	812111.314
B07	835146.223	812107.782
B08	835157.751	812110.583

KEY LOCATION PLAN

NOTES:

1. FOR GENERAL NOTES AND DETAILS, REFER TO DRAWING NO. 903/B/340/ATK/C01/001 TO 003.
2. FOR VIADUCT FOUNDATION, REFER TO DRAWING NO. 903/B/320/ATK/C19/001 TO 013.
3. FOR WONG CHUK HANG STATION FOUNDATION, REFER TO DRAWING NO. 903/B/WCH/ATK/C19/101 TO 104.
4. FOR DETAILS OF RETAINING WALL TYPES, REFER TO DRAWING NO. 903/B/340/ATK/C11/491 & 492.
5. FOR DETAILS OF STRENGTHENING WORKS FOR EXISTING NULLAH WALL, REFER TO DRAWING NO. 903/B/340/ATK/C20/253 & 254.
6. FOR PILE SCHEDULE & SETTING OUT, REFER TO DRAWING NO. 903/B/340/ATK/C01/101 TO 107 & 903/B/340/ATK/C19/006 & 007.
7. FOR MODIFICATION OF EXISTING NULLAH WALL, REFER TO DRAWING NO. 903/B/340/ATK/C10/601

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

BPW E - 001
- PILE MARK
- ROW (E)
- BPW - DIA. 1500mm BORED PILE WALL
- MPSF - DIA. 273mm MINI PILE FOR STRENGTHENING WORKS FOR EXISTING NULLAH WALL

- EXISTING BOREHOLE
- EXISTING TRIAL PIT
- PROJECT SPECIFIC BOREHOLE
- PROJECT SPECIFIC TRIAL PIT
- DIA. 150mm ROCK DOWEL
- DIA. 610mm PRE-BORED SOCKETED H-PILE
- BOREHOLE FOR NULLAH STRENGTHENING

REV	DESCRIPTION	BY	DATE	APPROVED
C	BD AS-BUILT RECORD SUBMISSION	TH	11NOV16	LI
B	AS-BUILT DRAWING	TH	04OCT16	LI
A	FIRST ISSUE	TH	08MAY15	LI

DRAWN	TH
DESIGNED	EW
CHECKED	DW
APPROVED	LI
DATE	05/MAY/2015

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR
PROJECTS DIVISION | DESIGN MANAGEMENT DEPARTMENT

CADD REF.

TITLE
NULLAH RECONSTRUCTION WORKS
NULLAH FOUNDATION LAYOUT PLAN

SCALE 1 : 200 (A1)

DRAWING NO.

REV.

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AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)		(mPD)	(mPD)	(m)	(m)			
C1	BPA-130	7/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-2.00	-6.30	4.0	-	-2.16	-6.67	4.21	7.57	835316.821	812144.313	GRADE III OR BETTER
	BPA-131	7/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-1.50	-5.80	4.0	-	-1.84	-6.36	4.22	7.26	835311.714	812143.116	
	BPA-132	7/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-2.00	-6.30	4.0	-	-2.35	-6.92	4.27	7.82	835309.206	812142.514	
	BPA-133	7/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-3.00	-7.30	4.0	-	-3.06	-7.54	4.18	8.44	835304.620	812141.323	
	BPA-134	5/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-3.50	-7.80	4.0	-	-3.77	-8.23	4.16	9.13	835300.017	812140.313	
	BPA-135	5/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-4.98	-9.28	4.0	-	-5.29	-9.83	4.24	10.73	835295.447	812139.198	
	BPA-136	5/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-4.98	-9.28	4.0	-	-5.12	-9.66	4.24	10.56	835290.877	812138.114	
	BPA-137	5/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-3.00	-7.30	4.0	-	-3.28	-7.82	4.24	8.72	835286.267	812137.011	
	BPA-138	3/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-2.50	-6.80	4.0	-	-2.82	-7.29	4.17	8.19	835281.707	812135.908	
	BPA-139	3/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-0.50	-4.80	4.0	-	-0.76	-5.14	4.08	6.04	835277.101	812134.823	
	BPA-140	3/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	0.00	-4.30	4.0	-	-0.35	-4.84	4.19	5.74	835272.575	812133.698	
	BPA-141	3/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-0.28	-4.58	4.0	-	-0.47	-4.86	4.09	5.76	835267.983	812132.624	
	BPA-142	3/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-0.50	-4.80	4.0	-	-0.79	-5.22	4.13	6.12	835265.408	812131.977	
	BPA-143	2/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-0.50	-4.80	4.0	-	-0.83	-5.31	4.18	6.21	835260.832	812130.841	
	BPA-144	2/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-1.00	-5.30	4.0	-	-1.53	-5.93	4.10	6.83	835256.185	812129.733	
	BPA-145	2/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-1.00	-5.30	4.0	-	-1.23	-5.67	4.14	6.57	835251.572	812128.629	
	BPA-146	2/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-1.00	-5.30	4.0	-	-1.17	-5.59	4.12	6.49	835246.956	812127.456	
	BPA-147	1/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-0.50	-4.80	4.0	-	-0.75	-5.20	4.15	6.10	835242.333	812126.354	
	BPA-148	1/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-0.50	-4.80	4.0	-	-0.71	-5.29	4.28	6.19	835237.718	812125.259	
	BPA-149	1/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.90	-1.00	-5.30	4.0	-	-2.03	-6.40	4.07	7.30	835233.039	812124.155	
	BPB-115	21/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-0.57	-5.37	4.5	-	-2.04	-7.05	4.72	8.05	835313.991	812135.470	
	BPB-116	21/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-0.57	-5.37	4.5	-	-0.80	-5.80	4.70	6.80	835310.927	812134.811	
	BPB-117	21/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.00	-4.80	4.5	-	-1.31	-6.32	4.71	7.32	835308.460	812134.168	
	BPB-118	21/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.00	-4.80	4.5	-	-1.21	-6.27	4.76	7.27	835303.300	812132.905	
	BPB-119	21/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-0.50	-5.30	4.5	-	-0.80	-5.78	4.68	6.78	835300.394	812132.283	
	BPB-120	19/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-1.00	-5.80	4.5	-	-2.23	-7.29	4.76	8.29	835297.499	812131.552	
	BPB-121	19/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-0.63	-5.43	4.5	-	-1.77	-6.72	4.65	7.72	835292.346	812130.374	
	BPB-123	18/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-0.50	-5.30	4.5	-	-0.62	-5.64	4.72	6.64	835289.491	812129.627	
	BPB-124	18/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.00	-4.80	4.5	-	-1.12	-5.95	4.53	6.95	835286.579	812128.956	
	BPB-125	18/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.50	-4.30	4.5	-	-0.86	-5.85	4.69	6.85	835281.420	812127.705	
	BPB-126	18/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.50	-4.30	4.5	-	0.21	-4.80	4.71	5.80	835278.519	812127.017	
	BPB-127	17/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.50	-4.30	4.5	-	-0.85	-5.79	4.64	6.79	835275.624	812126.330	
	BPB-128	12/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.50	-4.30	4.5	-	-0.59	-5.51	4.62	6.51	835270.240	812125.103	
	BPB-129	12/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.50	-4.30	4.5	-	0.33	-4.60	4.63	5.60	835267.127	812124.317	
	BPB-130	12/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.50	-4.30	4.5	-	-0.70	-5.71	4.71	6.71	835264.724	812123.768	
	BPB-131	11/10/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.00	-4.80	4.5	-	-0.50	-5.63	4.83	6.63	835259.028	812122.388	
	BPB-132	11/10/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.00	-4.80	4.5	-	0.24	-4.89	4.83	5.89	835256.619	812121.800	
	BPB-133	11/10/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.00	-4.80	4.5	-	-1.08	-6.27	4.89	7.27	835254.212	812121.214	
	BPB-134	10/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	0.00	-4.80	4.5	-	-0.27	-5.29	4.72	6.29	835247.389	812119.599	
	BPB-135	10/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-0.50	-5.30	4.5	-	-1.95	-6.91	4.66	7.91	835241.297	812118.215	
	BPB-136	10/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-0.60	-5.40	4.5	-	-1.10	-7.09	5.69	8.09	835239.489	812117.965	
	BPB-137	10/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.00	-0.60	-5.40	4.5	-	-1.79	-7.12	5.03	8.12	835233.656	812116.579	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)

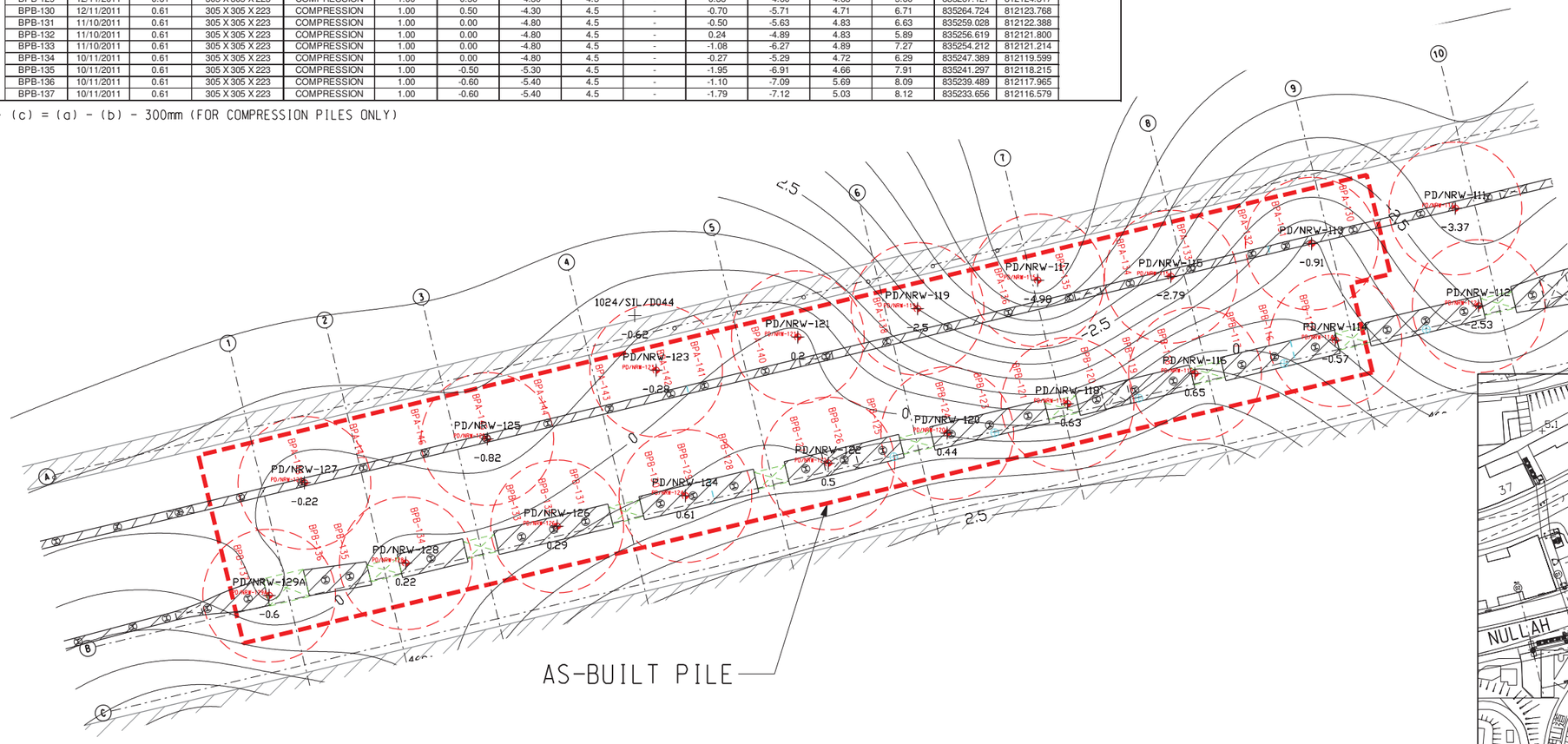
LEGEND :

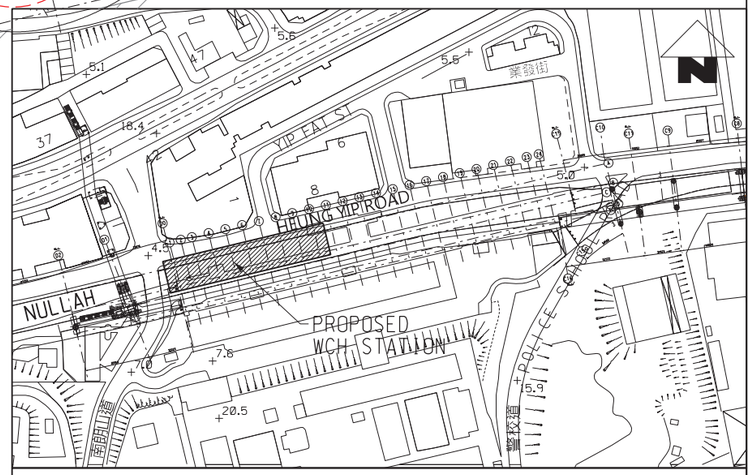
BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

(H) DIA. 610mm PRE-BORED SOCKETED H-PILE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450JO TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.





KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	28NOV11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_501A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C1)
SHEET 1 OF 4

SCALE	DRAWING NO.	REV.
1 : 200 (A1)	903/Z/340/ATK/C19/501	A

23NOV11

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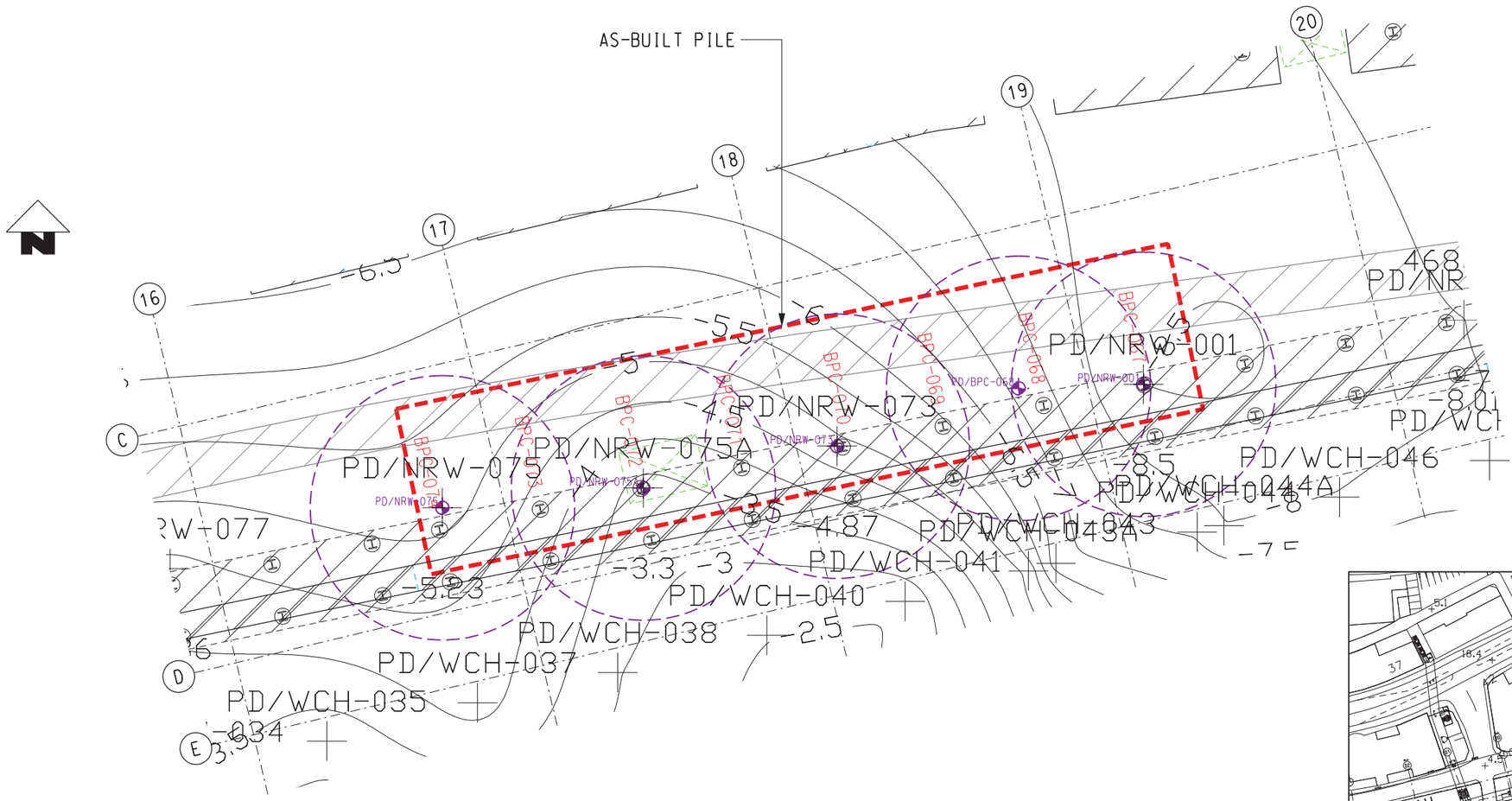
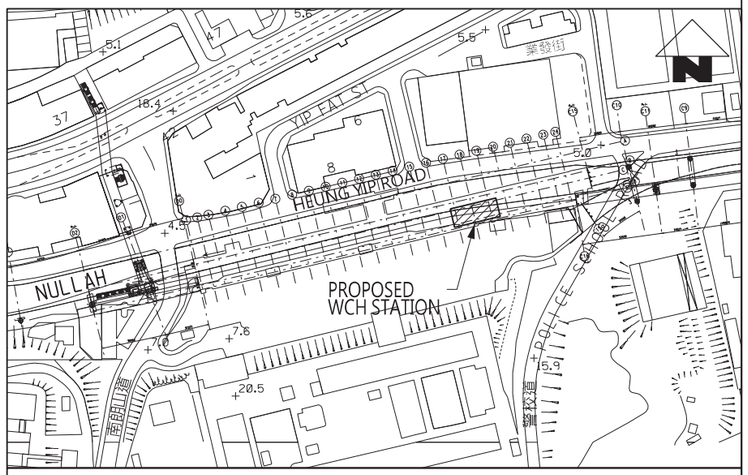
AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)		(mPD)	(mPD)	(m)	(m)			
C1	BPC-067	10/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.11	-8.50	-11.73	2.93	-	-8.74	-11.97	2.93	11.86	835431.176	812150.666	GRADE III OR BETTER
	BPC-068	20/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.11	-8.50	-11.75	2.95	-	-9.05	-12.31	2.96	12.20	835427.365	812149.872	
	BPC-069	09/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.11	-6.00	-9.18	2.88	-	-6.36	-9.54	2.88	9.43	835423.568	812149.092	
	BPC-070	09/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.11	-5.00	-8.13	2.83	-	-5.35	-8.48	2.83	8.37	835419.727	812148.268	
	BPC-071	09/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.11	-5.00	-8.26	2.96	-	-5.78	-9.04	2.96	8.93	835415.890	812147.491	
	BPC-072	17/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.11	-3.50	-6.66	2.86	-	-5.61	-8.77	2.86	8.66	835412.153	812146.718	
	BPC-073	05/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.11	-5.23	-8.42	2.89	-	-5.46	-8.68	2.92	8.57	835408.326	812145.905	
	BPC-074	05/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.11	-5.50	-8.63	2.83	-	-5.66	-8.79	2.83	8.68	835404.503	812145.091	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)





KEY LOCATION PLAN

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

Ⓗ DIA. 610mm PRE-BORED SOCKETED H-PILE

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	28NOV11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_502A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C1)
SHEET 2 OF 4

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/502	A

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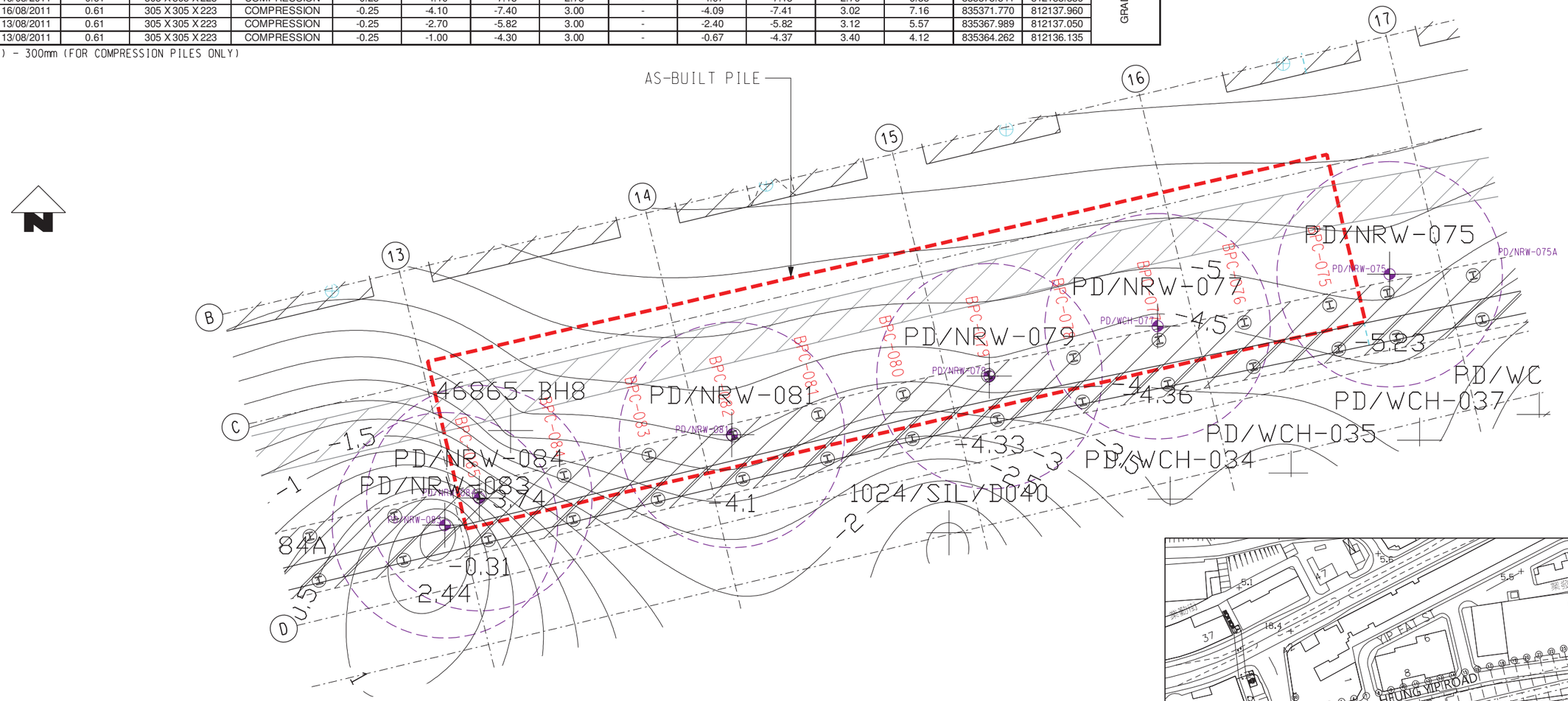
AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)		(mPD)	(mPD)	(m)	(m)			
C1	BPC-075	05/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-5.00	-8.07	2.97	-	-4.80	-8.12	3.02	7.87	835401.959	812144.720	GRADE III OR BETTER
	BPC-076	03/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-5.00	-8.03	3.00	-	-4.72	-8.06	3.04	7.81	835398.185	812143.852	
	BPC-077	03/09/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-4.50	-7.65	2.85	-	-4.92	-8.08	2.86	7.83	835394.463	812143.073	
	BPC-078	17/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-4.50	-7.80	3.00	-	-5.12	-8.70	3.28	8.45	835390.588	812142.343	
	BPC-079	17/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-4.50	-7.80	3.00	-	-4.70	-8.11	3.11	7.86	835386.810	812141.545	
	BPC-080	16/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-4.33	-7.49	2.86	-	-5.51	-8.67	2.86	8.42	835383.033	812140.633	
	BPC-081	16/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-4.10	-7.33	2.93	-	-5.22	-8.45	2.93	8.20	835379.276	812139.732	
	BPC-082	16/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-4.10	-7.13	2.73	-	-4.07	-7.13	2.76	6.88	835375.541	812138.836	
	BPC-083	16/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-4.10	-7.40	3.00	-	-4.09	-7.41	3.02	7.16	835371.770	812137.960	
	BPC-084	13/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-2.70	-5.82	3.00	-	-2.40	-5.82	3.12	5.57	835367.989	812137.050	
	BPC-085	13/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.25	-1.00	-4.30	3.00	-	-0.67	-4.37	3.40	4.12	835364.262	812136.135	

*(c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



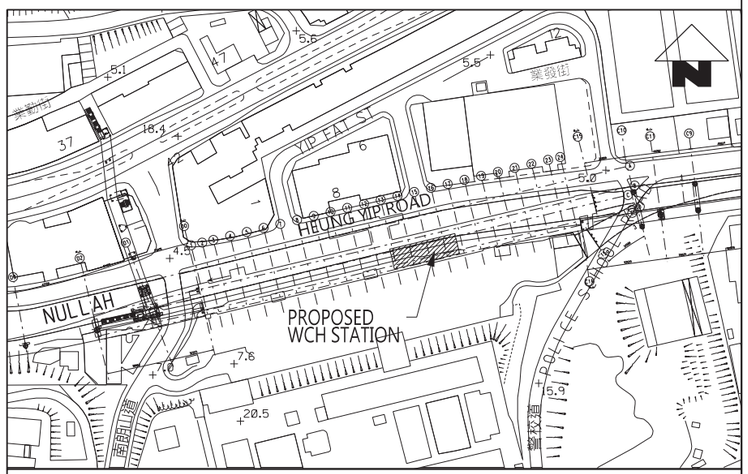
NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

(H) DIA. 610mm PRE-BORED SOCKETED H-PILE



KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	25JUL11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_503A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C1)
SHEET 3 OF 4

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/503	A

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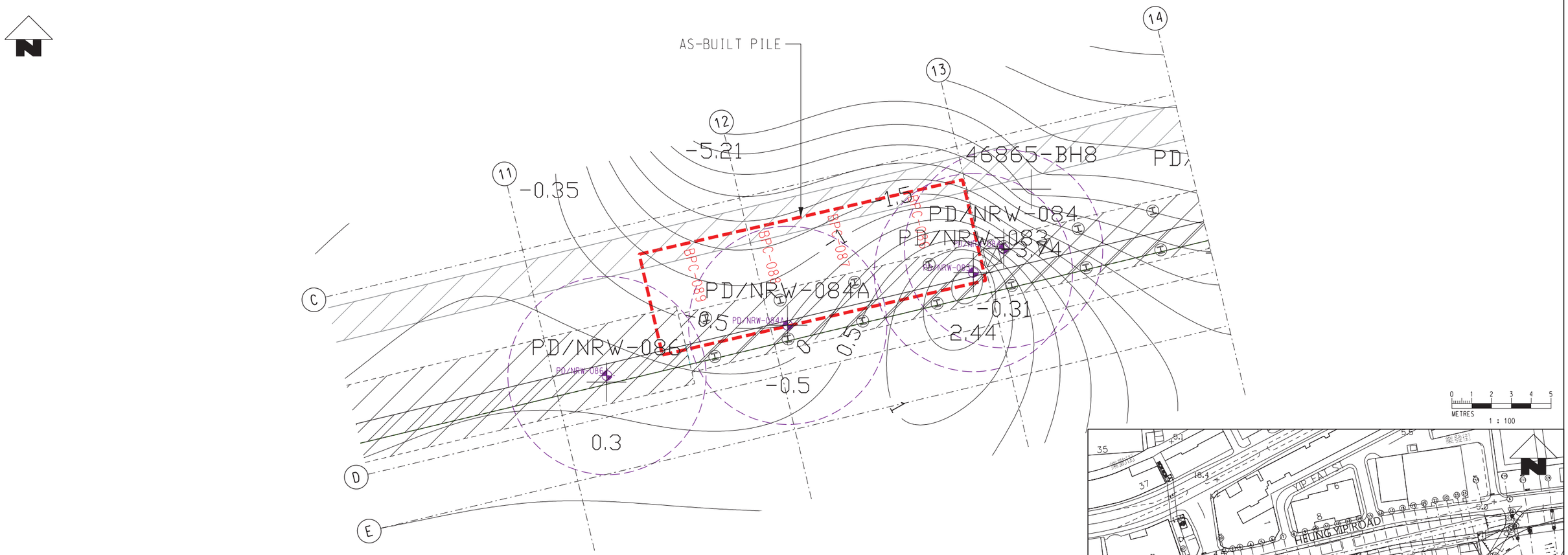
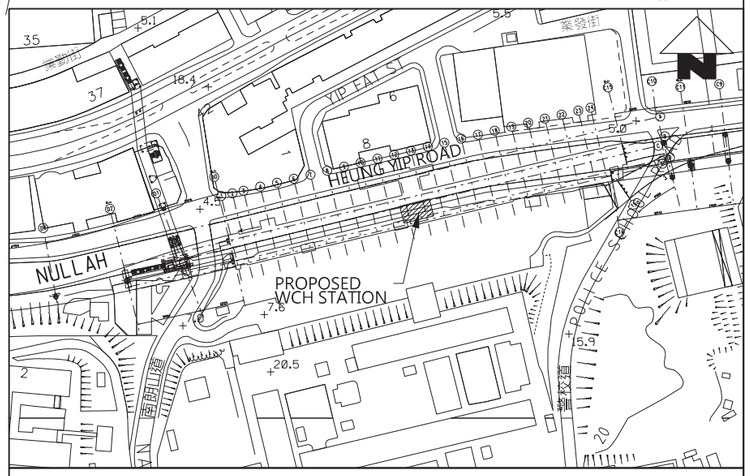
AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)		(mPD)	(mPD)	(m)	(m)			
C1	BPC-086	13/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.30	0.50	-3.60	3.00	-	-0.21	-4.27	3.76	3.97	835360.527	812135.254	GRADE III OR BETTER
	BPC-087	13/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.30	-0.50	-3.64	2.84	-	-1.07	-4.21	2.84	3.91	835356.731	812134.296	
	BPC-088	11/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.30	-1.00	-4.30	3.00	-	-0.81	-4.41	3.30	4.11	835352.981	812133.476	
	BPC-089	11/08/2011	0.61	305 X 305 X 223	COMPRESSION	-0.30	-1.00	-4.30	3.00	-	-0.62	-4.32	3.40	4.02	835349.202	812132.528	

*(c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)





KEY LOCATION PLAN

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

(H) DIA. 610mm PRE-BORED SOCKETED H-PILE

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	28NOV11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_504A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C1)
SHEET 4 OF 4

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/504	A

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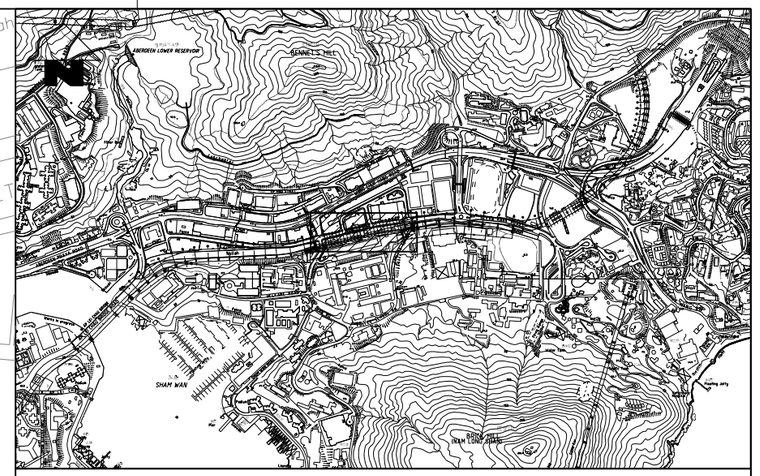

KEY LOCATION PLAN

PACKAGE C1
AS-BUILT NULLAH FOUNDATION
(PER-BORED H-PILE)

PACKAGE C1
AS-BUILT NULLAH FOUNDATION
(PER-BORED H-PILE)

WIP Aug 2007

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	28NOV11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_505A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PER-BORED H-PILES)
LOCATION PLAN (PACKAGE C1)

SCALE	DRAWING NO.	REV.
1 : 400 (A1)	903/Z/340/ATK/C19/505	A

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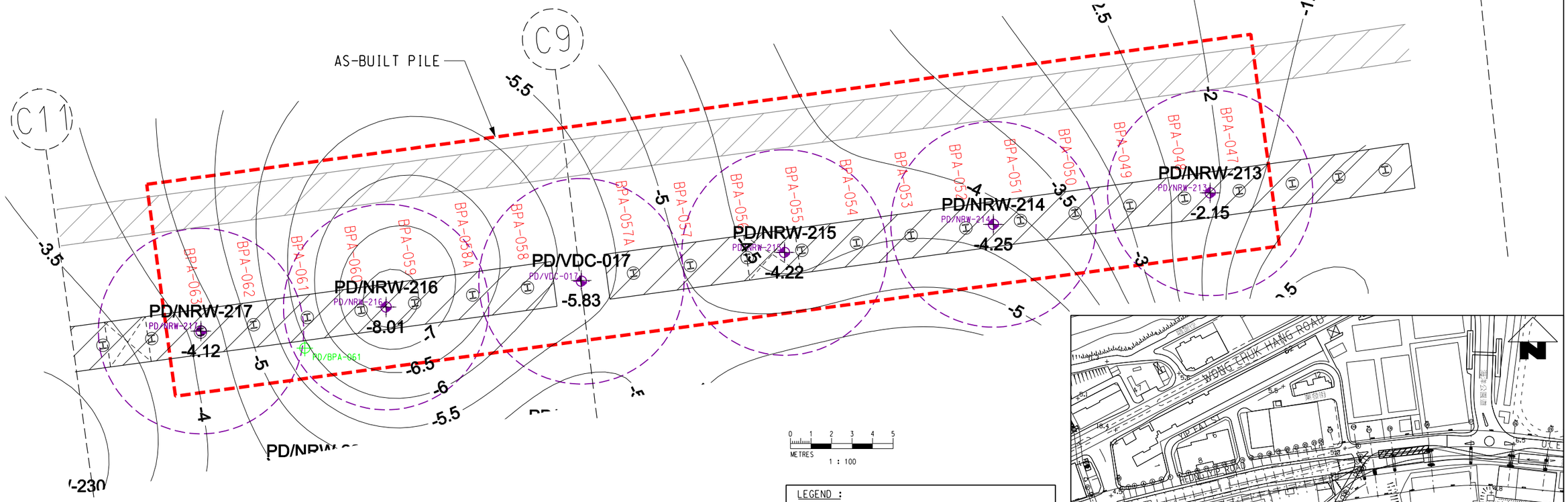
AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)		(mPD)	(mPD)	(m)	(m)			
C2	BPA-047	12/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.4	-2.15	-5.95	3.5	-	-2.58	-6.45	3.57	7.85	835591.385	812189.433	GRADE III OR BETTER
	BPA-048	12/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-2.50	-6.30	3.5	-	-2.86	-6.81	3.65	8.11	835588.724	812189.058	
	BPA-049	12/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-3.00	-6.80	3.5	-	-3.20	-7.17	3.67	8.47	835586.040	812188.718	
	BPA-050	12/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-4.25	-8.05	3.5	-	-4.81	-8.74	3.63	10.04	835583.380	812188.370	
	BPA-051	12/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-4.50	-8.30	3.5	-	-4.83	-8.67	3.54	9.97	835580.712	812187.986	
	BPA-052	12/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-4.50	-8.30	3.5	-	-4.80	-8.77	3.67	10.07	835578.094	812187.602	
	BPA-053	10/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-4.50	-8.30	3.5	-	-4.77	-8.75	3.68	10.05	835575.429	812187.229	
	BPA-054	10/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-4.50	-8.30	3.5	-	-5.20	-9.23	3.73	10.53	835572.767	812186.873	
	BPA-055	10/12/2011	0.61	305 X 305 X 223	COMPRESSION	0.1	-4.50	-8.30	3.5	-	-4.93	-8.96	3.73	9.06	835570.123	812186.520	
	BPA-056	10/12/2011	0.61	305 X 305 X 223	COMPRESSION	0.1	-5.00	-8.80	3.5	-	-5.35	-9.32	3.67	9.42	835567.464	812186.153	
	BPA-057	10/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-5.00	-8.80	3.5	-	-5.13	-9.14	3.71	10.44	835564.639	812185.815	
	BPA-057A	10/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-5.83	-9.63	3.5	-	-6.22	-10.26	3.74	11.56	835561.835	812185.422	
	BPA-058	01/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-6.50	-10.30	3.5	-	-6.79	-10.82	3.73	12.12	835556.680	812184.713	
	BPA-058A	01/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-8.01	-11.81	3.5	-	-8.14	-12.21	3.77	13.51	835554.059	812184.358	
	BPA-059	23/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-8.01	-11.81	3.5	-	-8.24	-12.24	3.70	13.54	835551.222	812183.996	
	BPA-060	23/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-8.01	-11.81	3.5	-	-8.06	-12.14	3.78	13.44	835548.622	812183.627	
	BPA-061	23/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-8.01	-11.81	3.5	-	-8.35	-12.33	3.68	13.63	835546.007	812183.238	
	BPA-062	22/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-5.50	-9.30	3.5	-	-5.60	-9.61	3.71	10.91	835543.345	812182.939	
	BPA-063	22/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.3	-4.50	-7.80	3	-	-4.80	-8.24	3.14	9.54	835540.811	812182.585	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILLING HOLE

KEY LOCATION PLAN

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REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	12DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_507A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C2)
SHEET 1 OF 4

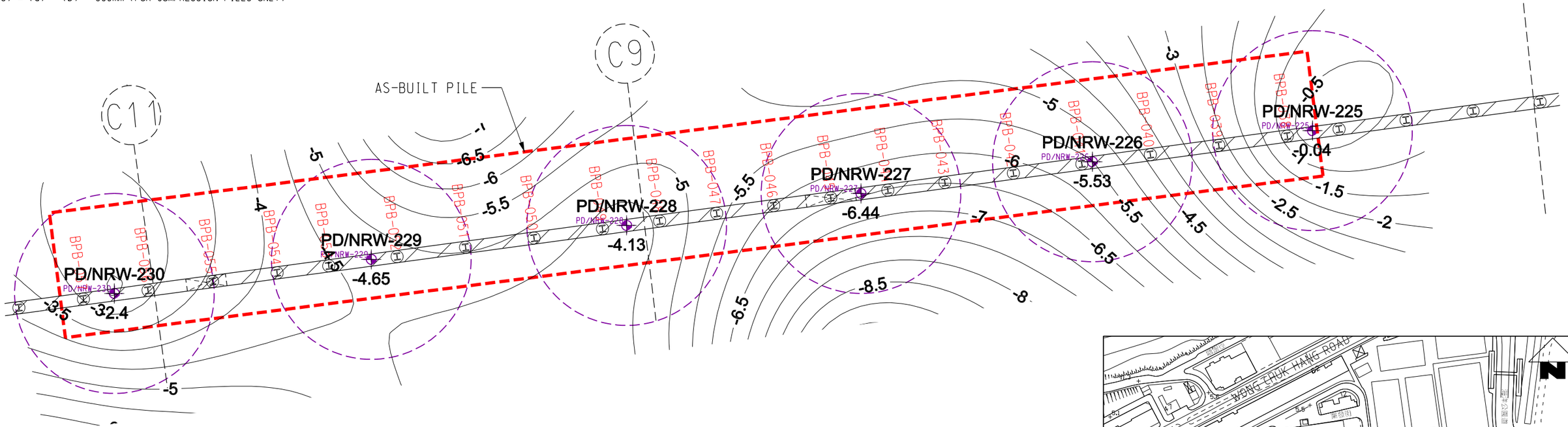
SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/507	A

PD/NRW-213

AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)		(mPD)	(mPD)	(m)	(m)			
C2	BPB-038	12/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.7	-1.00	-3.80	2.5	-	-1.57	-4.60	2.73	6.30	835592.398	812181.945	GRADE III OR BETTER
	BPB-039	03/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.7	-3.00	-5.80	2.5	-	-4.55	-7.61	2.76	9.31	835588.961	812181.494	
	BPB-040	03/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.7	-5.53	-8.33	2.5	-	-5.78	-8.77	2.69	10.47	835585.566	812181.031	
	BPB-041	03/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.7	-6.00	-9.30	3	-	-6.03	-9.47	3.14	11.17	835582.133	812180.564	
	BPB-042	03/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.7	-6.50	-9.80	3	-	-6.71	-10.14	3.13	11.84	835578.743	812180.070	
	BPB-043	03/12/2011	0.61	305 X 305 X 223	COMPRESSION	1.6	-7.00	-9.80	2.5	-	-7.77	-10.77	2.70	12.37	835575.266	812179.619	
	BPB-044	02/12/2011	0.61	305 X 305 X 223	COMPRESSION	0.4	-7.00	-9.80	2.5	-	-7.21	-10.43	2.92	10.83	835572.393	812179.217	
	BPB-045	02/12/2011	0.61	305 X 305 X 223	COMPRESSION	0.4	-6.50	-9.30	2.5	-	-6.79	-9.97	2.88	10.37	: 835569.515	812178.849	
	BPB-046	02/12/2011	0.61	305 X 305 X 223	COMPRESSION	0.4	-6.50	-9.30	2.5	-	-6.70	-9.69	2.69	10.09	835566.669	812178.416	
	BPB-047	16/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.6	-5.50	-8.30	2.5	-	-5.89	-8.81	2.62	10.41	835563.823	812178.037	
	BPB-048	16/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.6	-5.00	-7.80	2.5	-	-5.44	-8.45	2.71	10.05	835560.978	812177.673	
	BPB-049	16/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.5	-4.50	-7.30	2.5	-	-6.07	-8.90	2.53	10.40	835558.108	812177.315	
	BPB-050	16/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.5	-5.00	-8.30	3	-	-5.90	-9.23	3.03	10.73	835554.659	812176.881	
	BPB-051	15/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.5	-5.50	-8.80	3	-	-5.93	-9.42	3.19	10.92	835551.206	812176.359	
	BPB-052	15/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.5	-5.00	-7.80	2.5	-	-5.29	-8.24	2.65	9.74	835547.847	812175.857	
	BPB-053	15/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.5	-4.65	-7.45	2.5	-	-5.25	-8.15	2.60	9.65	835544.439	812175.491	
	BPB-054	14/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.3	-4.65	-7.45	2.5	-	-5.30	-8.21	2.61	8.51	835541.776	812174.992	
	BPB-055	14/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.3	-4.00	-6.80	2.5	-	-4.04	-7.00	2.66	7.30	835538.566	812174.678	
	BPB-056	14/11/2011	0.61	305 X 305 X 223	COMPRESSION	0.3	-3.00	-6.30	3	-	-3.21	-6.82	3.31	7.12	835535.308	812174.204	
	BPB-057	22/11/2011	0.61	305 X 305 X 223	COMPRESSION	1.5	-3.50	-6.30	2.5	-	-3.37	-7.15	3.48	8.65	835532.069	812173.795	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

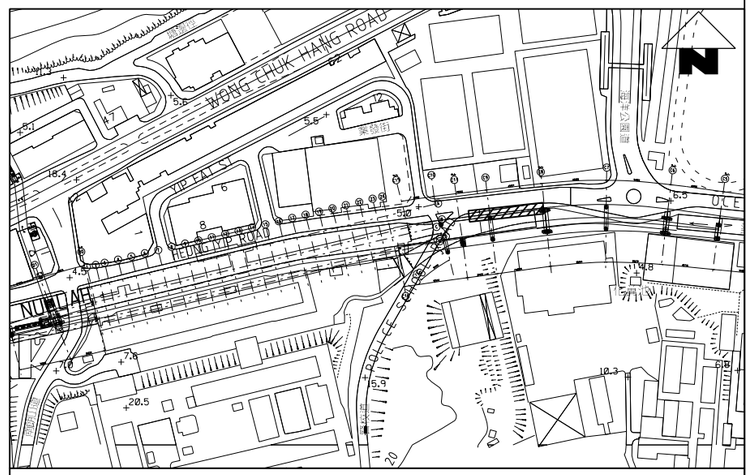
0 1 2 3 4 5
METRES
1 : 100

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE



KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	12DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_508A.dgn

TITLE
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C2)
SHEET 2 OF 4

SCALE 1 : 100 (A1)

DRAWING NO. 903/Z/340/ATK/C19/508

REV. A

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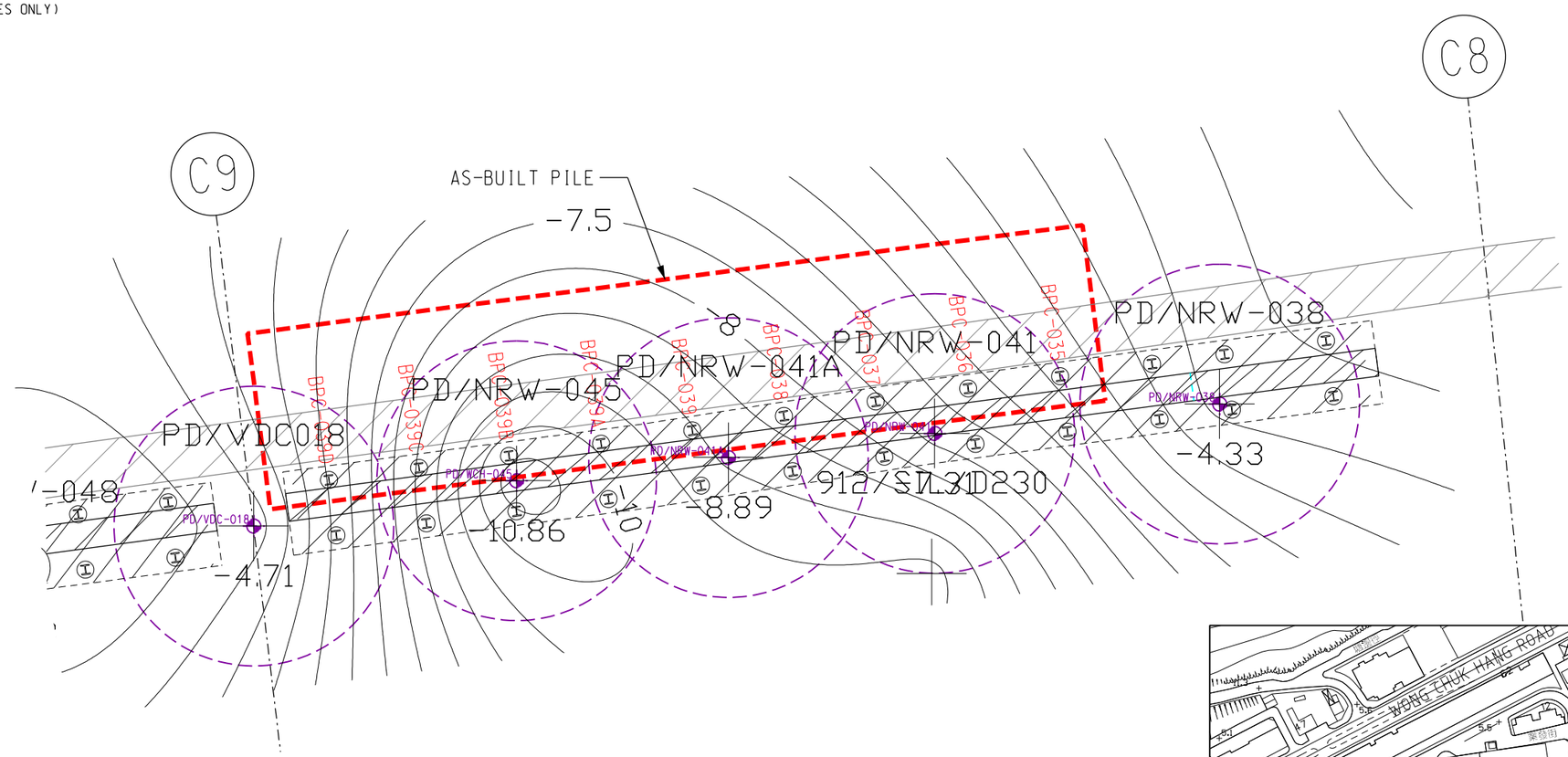
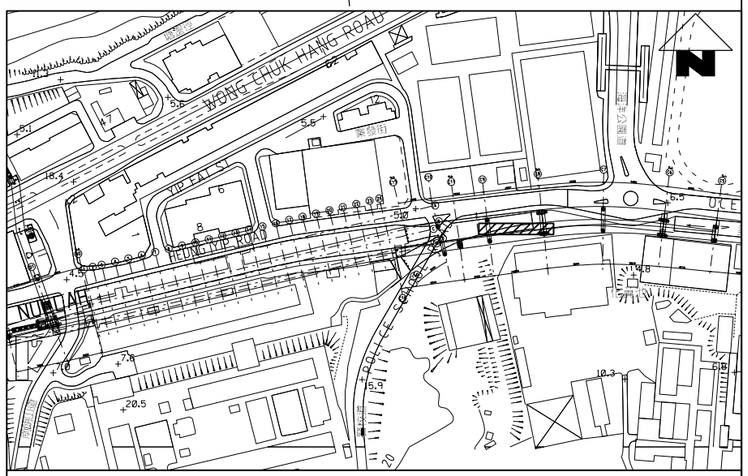
AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)		(mPD)	(mPD)	(m)	(m)			
C2	BPC-035	27/9/2011	0.61	305 X 305 X 223	COMPRESSION	0.34	-7.31	-10.11	2.5	-	-7.37	-10.47	2.80	10.81	835590.134	812173.914	GRADE III OR BETTER
	BPC-036	27/9/2011	0.61	305 X 305 X 223	COMPRESSION	0.34	-7.31	-10.11	2.5	-	-7.51	-10.59	2.78	10.93	835586.820	812173.420	
	BPC-037	27/9/2011	0.61	305 X 305 X 223	COMPRESSION	0.34	-8.00	-10.80	2.5	-	-7.84	-10.91	2.77	11.25	835583.537	812173.017	
	BPC-038	28/9/2011	0.61	305 X 305 X 223	COMPRESSION	0.34	-8.50	-11.30	2.5	-	-8.71	-11.61	2.60	11.95	835580.240	812172.479	
	BPC-039	28/9/2011	0.61	305 X 305 X 223	COMPRESSION	0.34	-9.30	-12.10	2.5	-	-9.26	-12.20	2.64	12.54	835576.949	812171.972	
	BPC-039A	28/9/2011	0.61	305 X 305 X 223	COMPRESSION	0.19	-10.86	-13.66	2.5	-	-10.95	-13.86	2.61	14.05	835573.659	812171.477	
	BPC-039B	28/9/2011	0.61	305 X 305 X 223	COMPRESSION	0.19	-10.86	-13.66	2.5	-	-11.24	-14.29	2.75	14.48	835570.426	812171.043	
	BPC-039C	3/10/2011	0.61	305 X 305 X 223	COMPRESSION	0.19	-10.86	-13.66	2.5	-	-11.41	-14.47	2.76	14.66	835567.225	812170.600	
	BPC-039D	3/10/2011	0.61	305 X 305 X 223	COMPRESSION	0.19	-7.00	-9.80	2.5	-	-7.70	-10.84	2.84	11.03	835563.931	812170.194	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)





KEY LOCATION PLAN

0 1 2 3 4 5
METRES
1 : 100

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	12DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_509A.dgn

TITLE
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C2)
SHEET 3 OF 4

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/509	A

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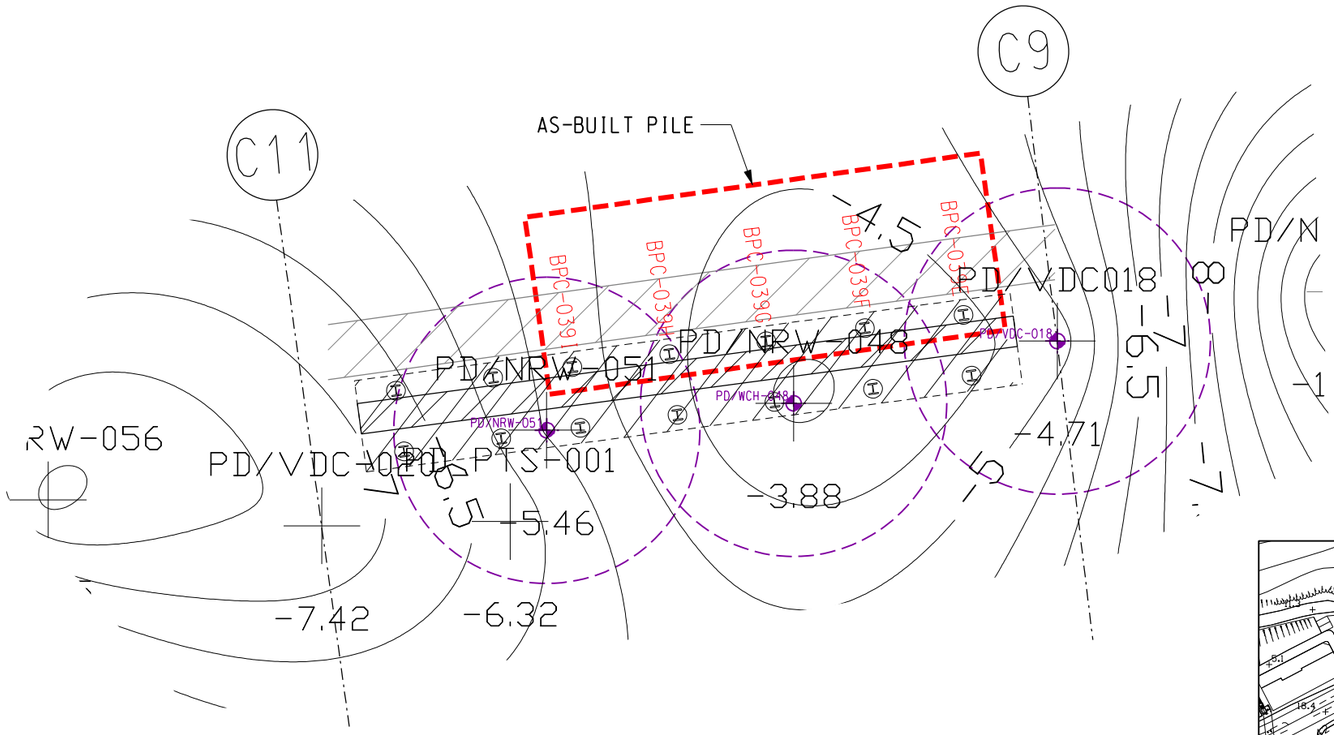
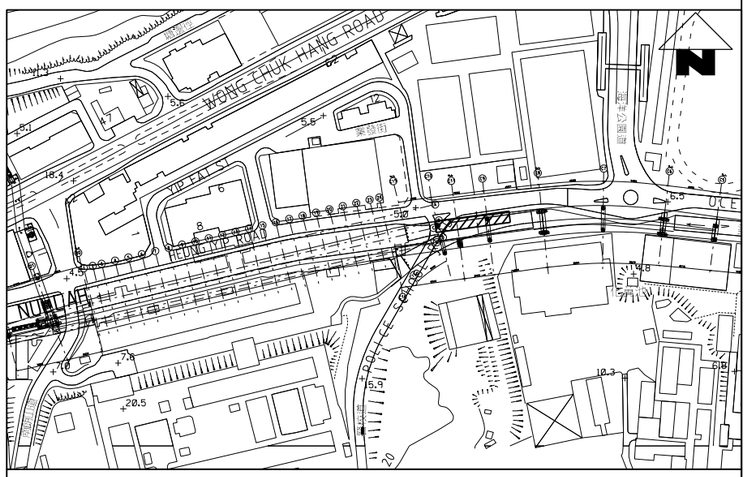
AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)		(mPD)	(mPD)	(m)	(m)			
C2	BPC-039E	10/4/2011	0.61	305 X 305 X 223	COMPRESSION	0.15	-4.71	-7.51	2.5	-	-5.94	-9.96	3.72	10.11	835558.232	812169.427	GRADE III OR BETTER
	BPC-039F	10/4/2011	0.61	305 X 305 X 223	COMPRESSION	0.15	-4.50	-7.30	2.5	-	-5.14	-8.10	2.66	8.25	835554.985	812169.002	
	BPC-039G	10/4/2011	0.61	305 X 305 X 223	COMPRESSION	0.15	-4.50	-7.30	2.5	-	-4.89	-7.96	2.77	8.11	835551.751	812168.533	
	BPC-039H	27/10/2011	0.61	305 X 305 X 223	COMPRESSION	0.15	-5.00	-7.80	2.5	-	-5.34	-8.33	2.69	8.48	835548.614	812168.164	
	BPC-039I	27/10/2012	0.61	305 X 305 X 223	COMPRESSION	0.15	-5.50	-8.30	2.5	-	-5.68	-8.70	2.72	8.85	835545.462	812167.688	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)





KEY LOCATION PLAN

0 1 2 3 4 5
METRES
1 : 100

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	12DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_510A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C2)
SHEET 4 OF 4

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/510	A

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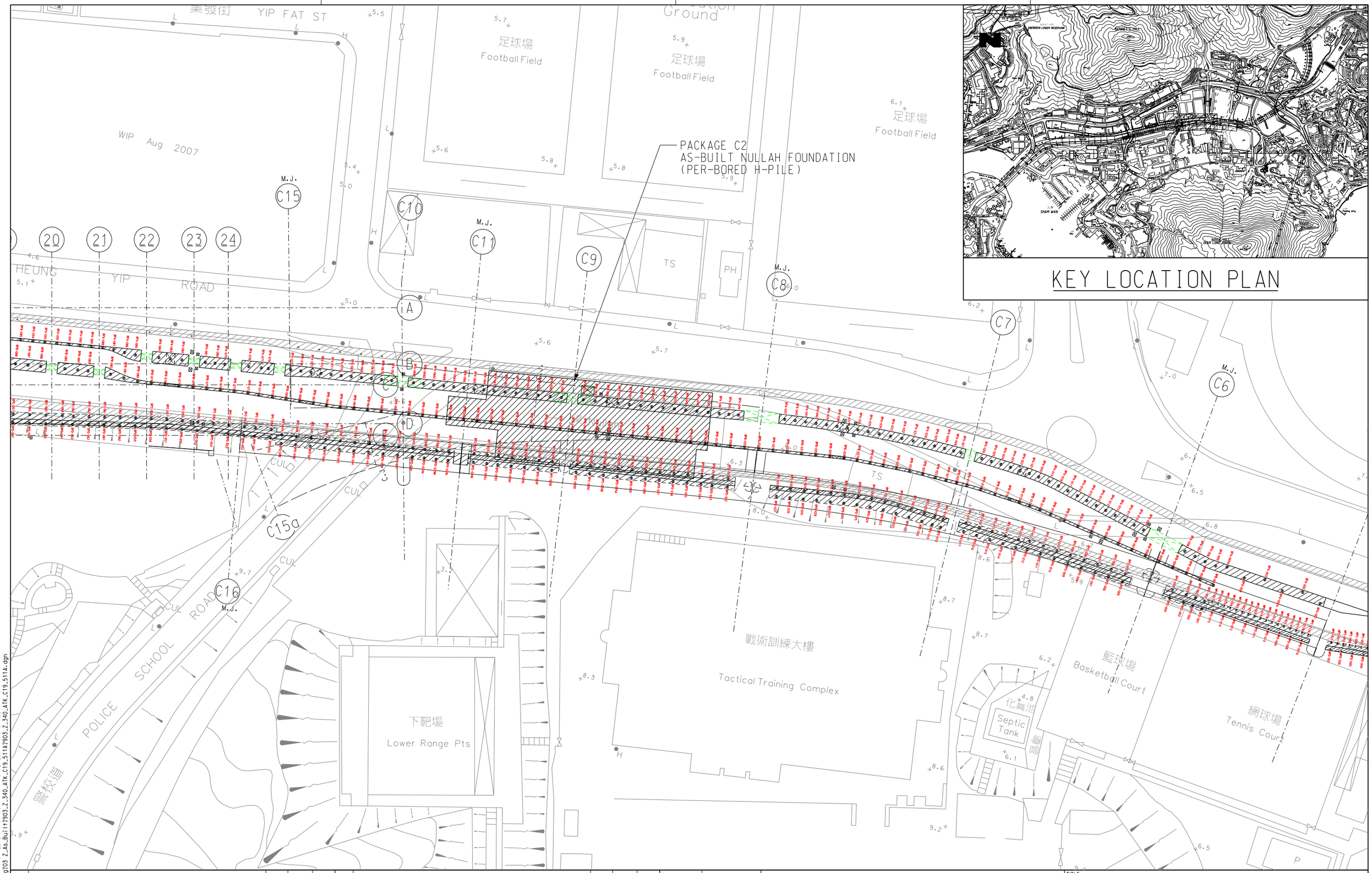

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	

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SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_511A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PER-BORED H-PILES)
LOCATION PLAN (PACKAGE C2)

SCALE 1 : 400 (A1)

DRAWING NO. 903/Z/340/ATK/C19/511

REV. A

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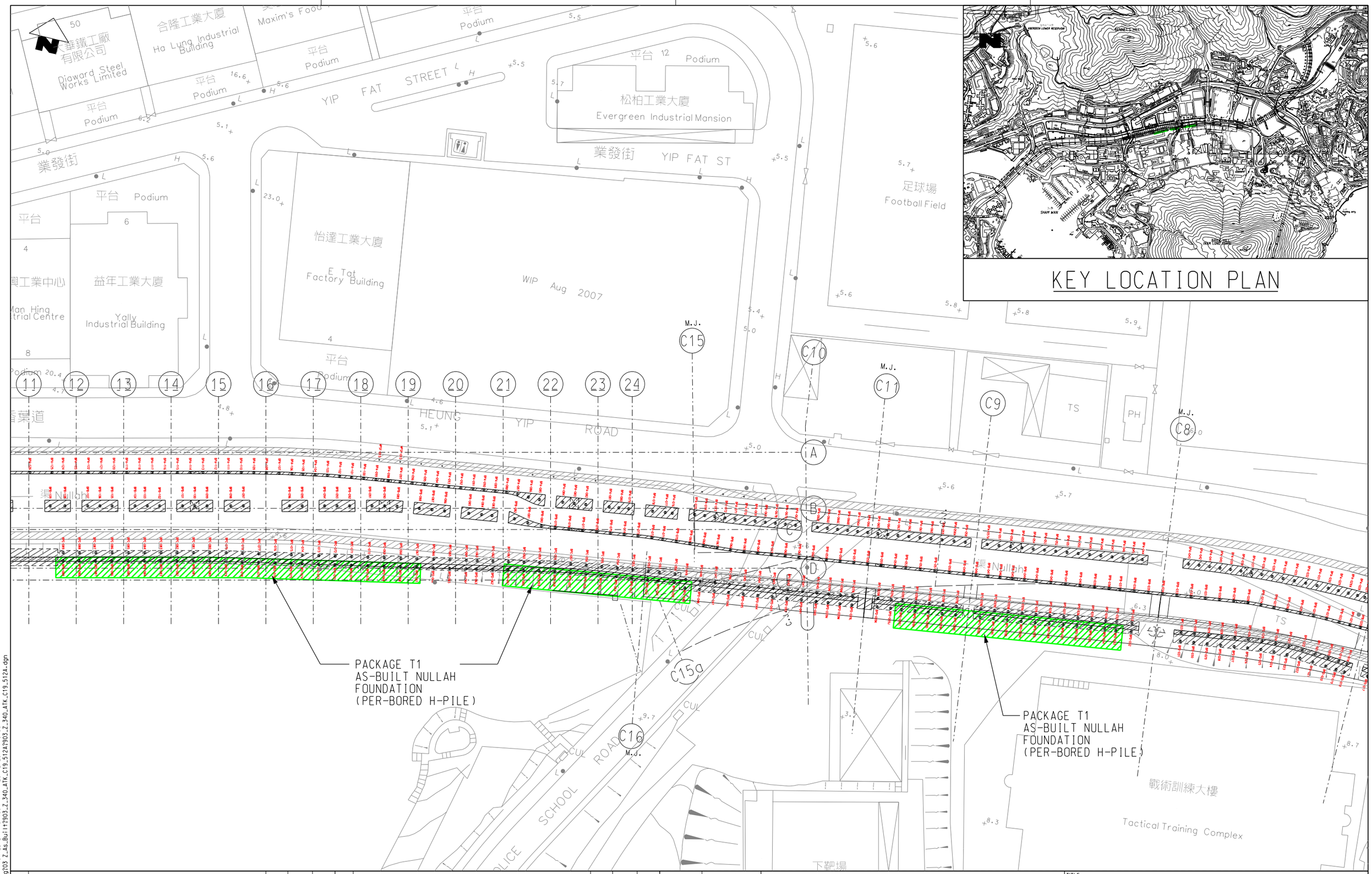

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_512A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PER-BORED H-PILES)
LOCATION PLAN (PACKAGE T1)

SCALE 1 : 400 (A1)

DRAWING NO. 903/Z/340/ATK/C19/512

REV. A

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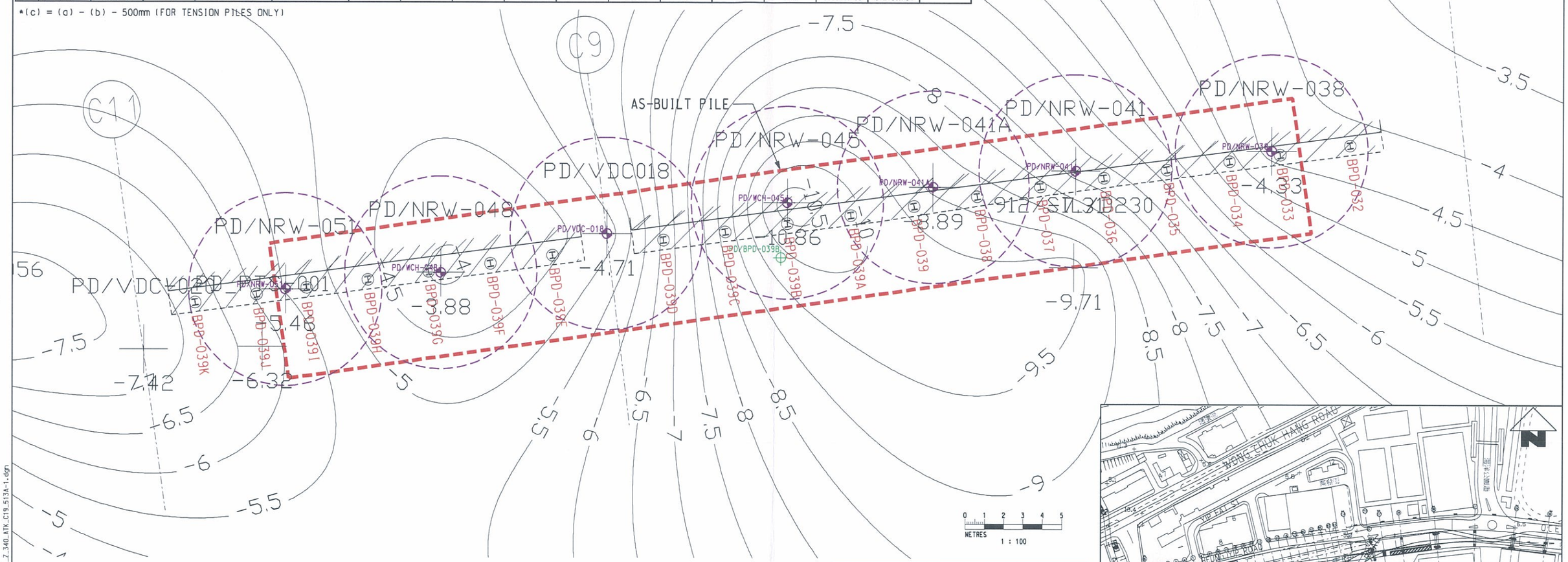
FILENAME: M:?LCAL drawing?03 Z_As_Built?903_Z_340_ATK_C19_512A?903_Z_340_ATK_C19_512A.dgn

AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)			
T1	BPD-033	11/10/2011	0.61	305 X 305 X 223	TENSION	0.880	-4.50	-7.50	2.50	8	-4.35	-7.71	2.86	8.59	835596.265	812172.728	GRADE III OR BETTER
	BPD-034	10/12/2011	0.61	305 X 305 X 223	TENSION	0.880	-5.50	-8.50	2.50	8	-5.77	-9.48	3.21	10.36	835593.709	812172.397	
	BPD-035	10/10/2011	0.61	305 X 305 X 223	TENSION	0.880	-7.31	-10.17	2.36	8	-7.04	-10.17	2.63	11.05	835590.393	812171.934	
	BPD-036	10/10/2011	0.61	305 X 305 X 223	TENSION	0.880	-7.31	-10.24	2.43	8	-7.21	-10.24	2.53	11.12	835587.108	812171.467	
	BPD-037	11/10/2011	0.61	305 X 305 X 223	TENSION	0.880	-8.20	-11.20	2.50	8	-8.09	-11.25	2.66	12.13	835583.855	812171.006	
	BPD-038	24/10/2011	0.61	305 X 305 X 223	TENSION	0.880	-9.00	-12.00	2.50	8	-9.22	-12.37	2.65	13.25	835580.554	812170.506	
	BPD-039	26/10/2011	0.61	305 X 305 X 223	TENSION	0.880	-9.50	-12.50	2.50	8	-9.73	-12.95	2.72	13.83	835577.296	812169.992	
	BPD-039A	26/10/2011	0.61	305 X 305 X 223	TENSION	0.730	-10.86	-13.86	2.50	8	-10.99	-14.20	2.71	14.93	835573.963	812169.484	
	BPD-039B	26/10/2011	0.61	305 X 305 X 223	TENSION	0.730	-10.86	-13.86	2.50	8	-11.06	-14.23	2.67	14.96	835570.708	812169.061	
	BPD-039C	24/10/2011	0.61	305 X 305 X 223	TENSION	0.730	-10.86	-13.86	2.50	8	-10.76	-14.01	2.75	14.74	835567.459	812168.665	
	BPD-039D	24/10/2011	0.61	305 X 305 X 223	TENSION	0.730	-7.00	-9.50	2.00	8	-7.16	-10.33	2.67	11.06	835564.271	812168.224	
	BPD-039E	22/10/2011	0.61	305 X 305 X 223	TENSION	0.690	-4.71	-7.21	2.00	7	-5.80	-8.95	2.65	9.64	835558.499	812167.401	
	BPD-039F	22/10/2011	0.61	305 X 305 X 223	TENSION	0.690	-4.30	-7.31	2.50	8	-4.31	-7.47	2.66	8.16	835555.301	812167.036	
	BPD-039G	22/10/2011	0.61	305 X 305 X 223	TENSION	0.690	-4.50	-7.50	2.50	8	-4.75	-7.92	2.67	8.61	835552.087	812166.594	
	BPD-039H	31/10/2011	0.61	305 X 305 X 223	TENSION	0.690	-5.00	-8.00	2.50	8	-5.58	-8.76	2.68	9.45	835548.899	812166.175	
	BPD-039I	31/10/2011	0.61	305 X 305 X 223	TENSION	0.690	-5.50	-8.50	2.50	8	-5.62	-8.89	2.77	9.58	835545.700	812165.764	

*(c) = (a) - (b) - 500mm (FOR TENSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

(H) DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILLING HOLE

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_513A-1.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE T1)
SHEET 1 OF 3

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/513	A1

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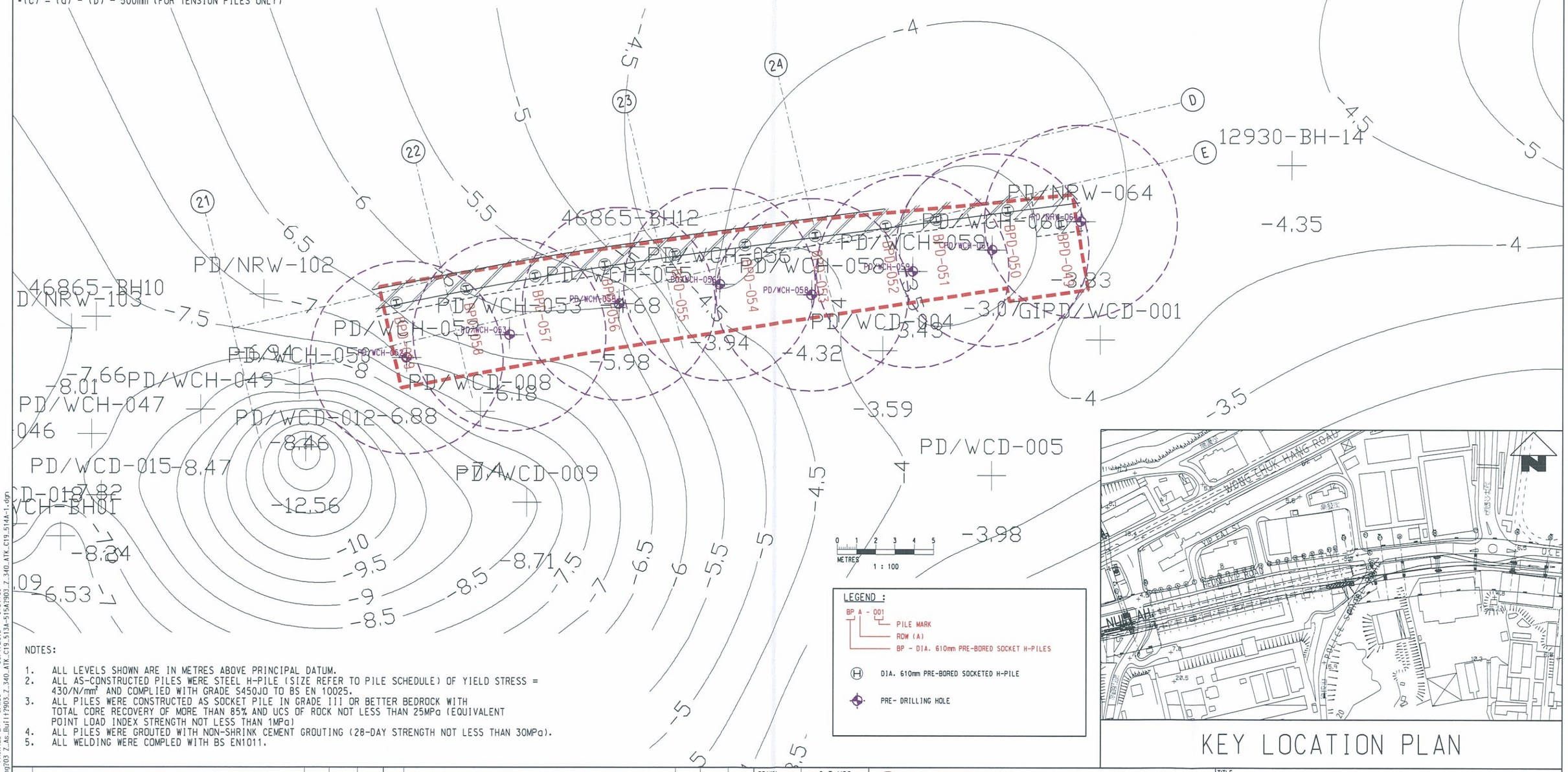
FILENAME: M:\CAL drawing\03 Z_As_Built\2903_Z_340_ATK_C19_513A-515\2903_Z_340_ATK_C19_513A-1.dgn

AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)			
T1	BPD-049	17/10/2011	0.61	305 X 305 X 223	TENSION	0.580	-4.00	-6.97	2.47	7	-4.14	-7.11	2.47	7.69	835494.564	812158.669	GRADE III OR BETTER
	BPD-050	17/10/2011	0.61	305 X 305 X 223	TENSION	0.580	-3.50	-6.50	2.50	7	-3.74	-7.13	2.89	7.71	835491.815	812159.413	
	BPD-051	17/10/2011	0.61	305 X 305 X 223	TENSION	0.580	-3.50	-6.50	2.50	7	-3.64	-7.11	2.97	7.69	835488.096	812158.943	
	BPD-052	18/10/2011	0.61	305 X 305 X 223	TENSION	0.560	-4.00	-7.50	3.00	8	-4.19	-8.24	3.55	8.80	835485.451	812158.523	
	BPD-053	18/10/2011	0.61	305 X 305 X 223	TENSION	0.560	-4.32	-7.82	3.00	8	-4.52	-8.20	3.18	8.76	835481.817	812158.089	
	BPD-054	20/10/2011	0.61	305 X 305 X 223	TENSION	0.560	-4.00	-7.50	3.00	8	-4.16	-8.10	3.44	8.66	835478.139	812157.615	
	BPD-055	20/10/2011	0.61	305 X 305 X 223	TENSION	0.560	-4.50	-7.95	2.95	8	-4.80	-8.25	2.95	8.81	835474.452	812157.086	
	BPD-056	21/10/2011	0.61	305 X 305 X 223	TENSION	0.560	-5.98	-9.14	2.66	8	-6.52	-9.68	2.66	10.24	835470.849	812156.536	
	BPD-057	21/10/2011	0.61	305 X 305 X 223	TENSION	0.560	-6.18	-9.46	2.78	8	-6.48	-9.76	2.78	10.32	835467.285	812155.940	
	BPD-058	21/10/2011	0.61	305 X 305 X 223	TENSION	0.560	-6.18	-9.28	2.60	8	-7.10	-10.20	2.60	10.76	835463.613	812155.265	
	BPD-059	19/10/2011	0.61	305 X 305 X 223	TENSION	0.560	-6.88	-10.09	2.71	8	-7.20	-10.41	2.71	10.97	835460.023	812154.519	

*(c) = (a) - (b) - 500mm (FOR TENSION PILES ONLY)



KEY LOCATION PLAN

0 1 2 3 4 5
METRES
1 : 100

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

(H) DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_514A-1.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE T1)
SHEET 2 OF 3

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/514	A1

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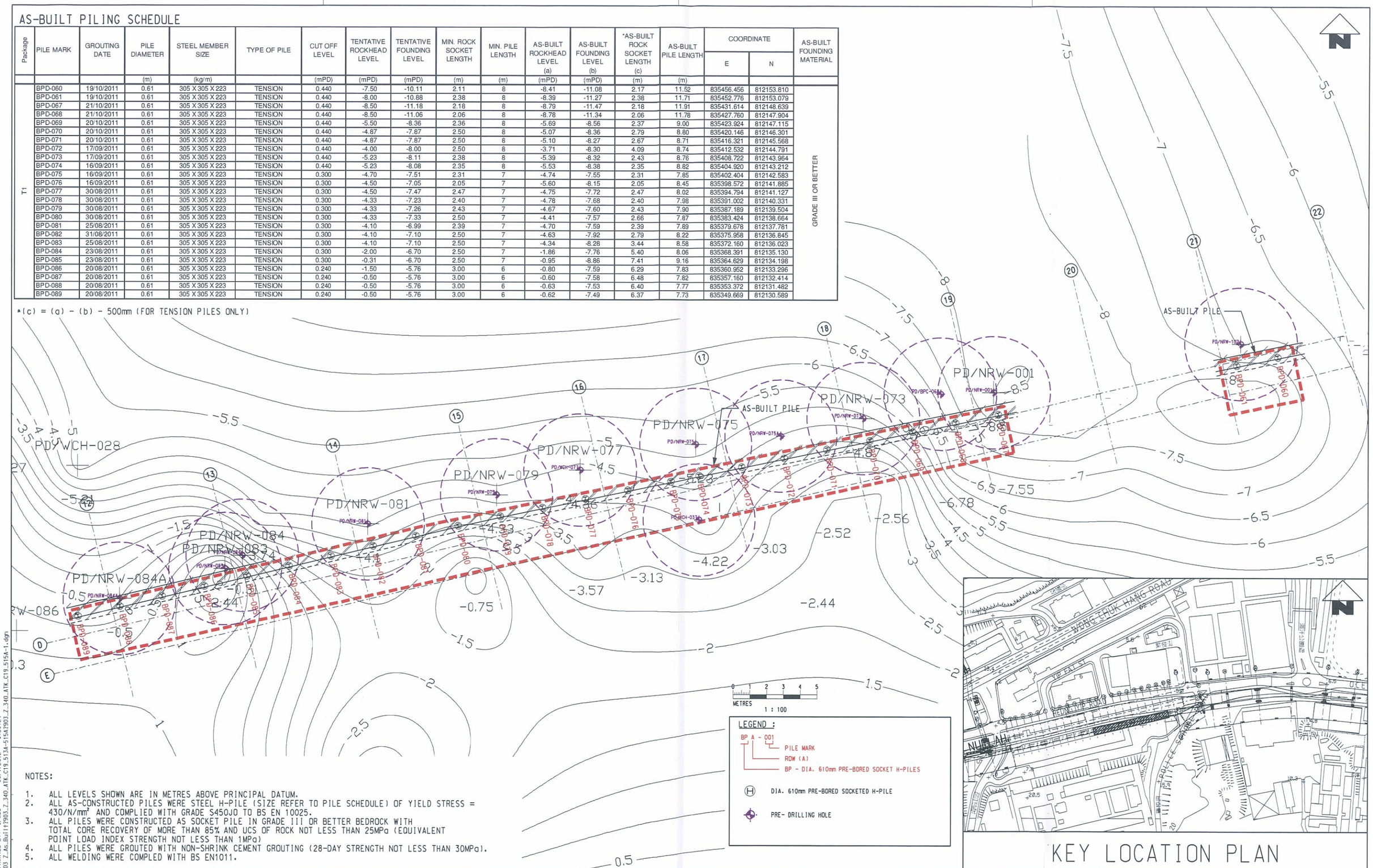
AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)			
T1	BPD-060	19/10/2011	0.61	305 X 305 X 223	TENSION	0.440	-7.50	-10.11	2.11	8	-8.41	-11.08	2.17	11.52	835456.456	812153.810	GRADE III OR BETTER
	BPD-061	19/10/2011	0.61	305 X 305 X 223	TENSION	0.440	-8.00	-10.88	2.38	8	-8.39	-11.27	2.36	11.71	835452.776	812153.079	
	BPD-067	21/10/2011	0.61	305 X 305 X 223	TENSION	0.440	-8.50	-11.18	2.18	8	-8.79	-11.47	2.18	11.91	835431.614	812148.639	
	BPD-068	21/10/2011	0.61	305 X 305 X 223	TENSION	0.440	-8.50	-11.06	2.06	8	-8.78	-11.34	2.06	11.78	835427.760	812147.904	
	BPD-069	20/10/2011	0.61	305 X 305 X 223	TENSION	0.440	-5.50	-8.36	2.36	8	-5.69	-8.56	2.37	9.00	835423.924	812147.115	
	BPD-070	20/10/2011	0.61	305 X 305 X 223	TENSION	0.440	-4.87	-7.87	2.50	8	-5.07	-8.36	2.79	8.80	835420.146	812146.301	
	BPD-071	20/10/2011	0.61	305 X 305 X 223	TENSION	0.440	-4.87	-7.87	2.50	8	-5.10	-8.27	2.67	8.71	835416.321	812145.568	
	BPD-072	17/09/2011	0.61	305 X 305 X 223	TENSION	0.440	-4.00	-8.00	2.50	8	-3.71	-8.30	4.09	8.74	835412.532	812144.791	
	BPD-073	17/09/2011	0.61	305 X 305 X 223	TENSION	0.440	-5.23	-8.11	2.38	8	-5.39	-8.32	2.43	8.76	835408.722	812143.964	
	BPD-074	16/09/2011	0.61	305 X 305 X 223	TENSION	0.440	-5.23	-8.08	2.35	8	-5.53	-8.38	2.35	8.82	835404.920	812143.212	
	BPD-075	16/09/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.70	-7.51	2.31	7	-4.74	-7.55	2.31	7.85	835402.404	812142.583	
	BPD-076	16/09/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.50	-7.05	2.05	7	-5.60	-8.15	2.05	8.45	835398.572	812141.885	
	BPD-077	30/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.50	-7.47	2.47	7	-4.75	-7.72	2.47	8.02	835394.794	812141.127	
	BPD-078	30/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.33	-7.23	2.40	7	-4.78	-7.68	2.40	7.98	835391.002	812140.331	
	BPD-079	30/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.33	-7.26	2.43	7	-4.67	-7.60	2.43	7.90	835387.189	812139.504	
	BPD-080	30/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.33	-7.33	2.50	7	-4.41	-7.57	2.66	7.87	835383.424	812138.664	
	BPD-081	25/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.10	-6.99	2.39	7	-4.70	-7.59	2.39	7.89	835379.678	812137.781	
	BPD-082	31/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.10	-7.10	2.50	7	-4.63	-7.92	2.79	8.22	835375.958	812136.845	
	BPD-083	25/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-4.10	-7.10	2.50	7	-4.34	-8.28	3.44	8.58	835372.160	812136.023	
	BPD-084	23/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-2.00	-6.70	2.50	7	-1.86	-7.76	5.40	8.06	835368.391	812135.130	
	BPD-085	23/08/2011	0.61	305 X 305 X 223	TENSION	0.300	-0.31	-6.70	2.50	7	-0.95	-8.86	7.41	9.16	835364.629	812134.198	
	BPD-086	20/08/2011	0.61	305 X 305 X 223	TENSION	0.240	-1.50	-5.76	3.00	6	-0.80	-7.59	6.29	7.83	835360.952	812133.296	
	BPD-087	20/08/2011	0.61	305 X 305 X 223	TENSION	0.240	-0.50	-5.76	3.00	6	-0.60	-7.58	6.48	7.82	835357.160	812132.414	
	BPD-088	20/08/2011	0.61	305 X 305 X 223	TENSION	0.240	-0.50	-5.76	3.00	6	-0.63	-7.53	6.40	7.77	835353.372	812131.482	
	BPD-089	20/08/2011	0.61	305 X 305 X 223	TENSION	0.240	-0.50	-5.76	3.00	6	-0.62	-7.49	6.37	7.73	835349.669	812130.589	

*(c) = (a) - (b) - 500mm (FOR TENSION PILES ONLY)



LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_515A-1.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE T1)
SHEET 3 OF 3

SCALE	DRAWING NO.	REV.
1 : 150 (A1)	903/Z/340/ATK/C19/515	A1

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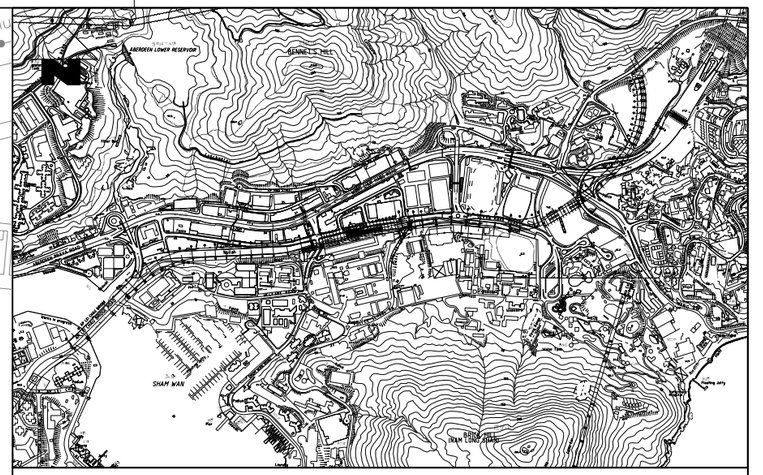
PACKAGE C3
AS-BUILT NULLAH FOUNDATION
(PER-BORED H-PILE)



KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	17JAN12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF.
903_Z_340_ATK_C19_516A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PER-BORED H-PILES)
LOCATION PLAN (PACKAGE C3)

SCALE	DRAWING NO.	REV.
1 : 400 (A1)	903/Z/340/ATK/C19/516	A

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PRINTED BY: C.F.Woo
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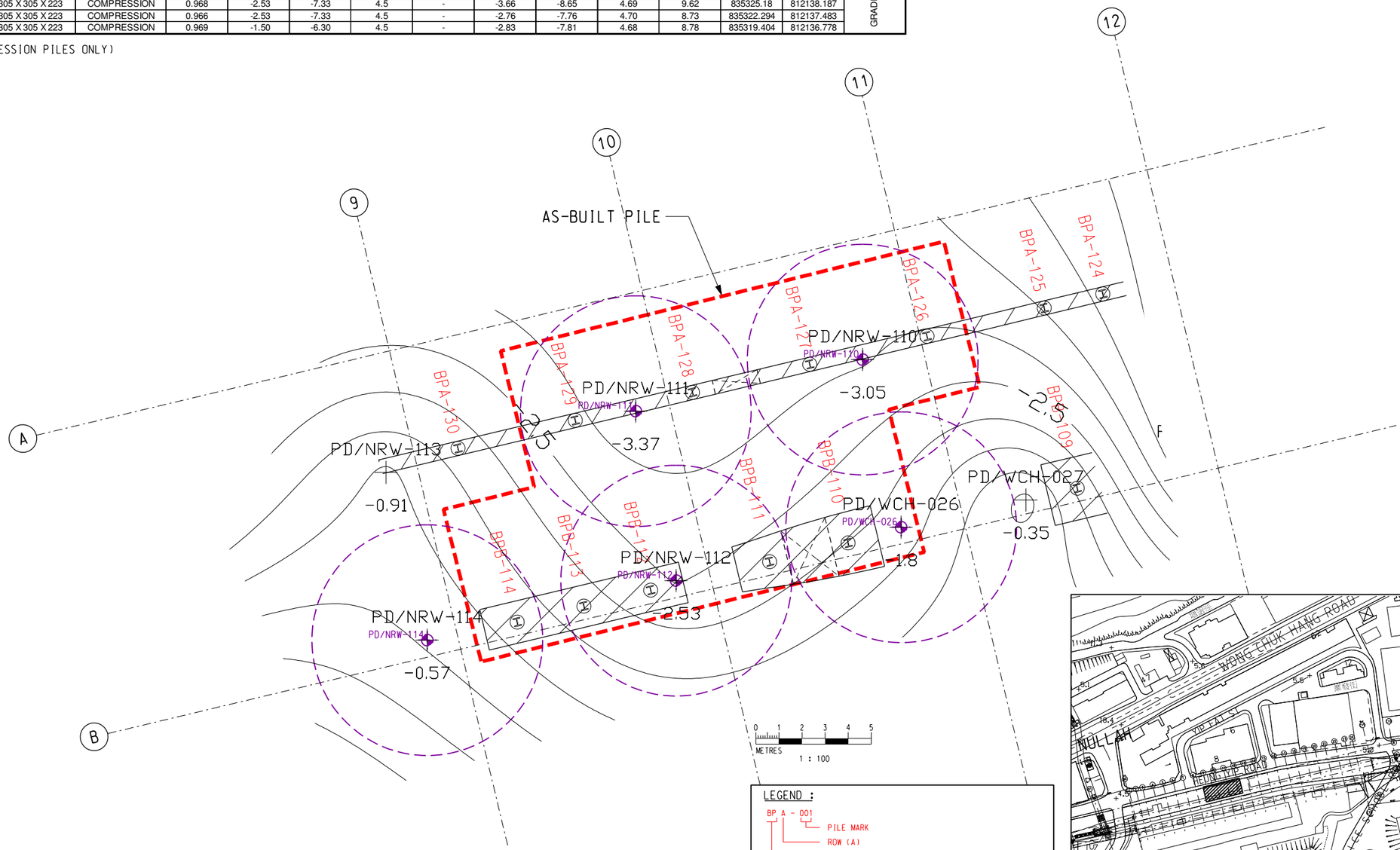
17/1/2012 14:26:51

AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		AS-BUILT FOUNDING MATERIAL
															E	N	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)			
C3	BPA-126	14/1/2012	0.61	305 X 305 X 223	COMPRESSION	0.970	-3.50	-6.30	2.5	-	-3.56	-6.49	2.63	7.46	835337.132	812149.169	GRADE III OR BETTER
	BPA-127	11/1/2012	0.61	305 X 305 X 223	COMPRESSION	-0.233	-3.50	-7.80	4	-	-4.24	-8.65	4.11	8.42	835332.052	812147.944	
	BPA-128	11/1/2012	0.61	305 X 305 X 223	COMPRESSION	-0.258	-3.50	-7.80	4	-	-4.09	-8.52	4.13	8.26	835326.979	812146.776	
	BPA-129	11/1/2012	0.61	305 X 305 X 223	COMPRESSION	0.949	-3.37	-7.67	4	-	-3.52	-8.00	4.18	8.95	835321.882	812145.558	
	BPB-110	24/12/2011	0.61	321 X 305 X 223	COMPRESSION	-0.224	-2.50	-7.80	5	-	-2.53	-8.24	5.41	8.02	835333.755	812140.242	
	BPB-111	24/12/2011	0.61	305 X 305 X 223	COMPRESSION	-0.237	-2.53	-7.83	5	-	-4.07	-9.52	5.15	9.28	835330.361	812139.436	
	BPB-112	10/1/2012	0.61	305 X 305 X 223	COMPRESSION	0.968	-2.53	-7.33	4.5	-	-3.66	-8.65	4.69	9.62	835325.18	812138.187	
	BPB-113	10/1/2012	0.61	305 X 305 X 223	COMPRESSION	0.966	-2.53	-7.33	4.5	-	-2.76	-7.76	4.70	8.73	835322.294	812137.483	
	BPB-114	10/1/2012	0.61	305 X 305 X 223	COMPRESSION	0.969	-1.50	-6.30	4.5	-	-2.83	-7.81	4.68	8.78	835319.404	812136.778	

*(c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)

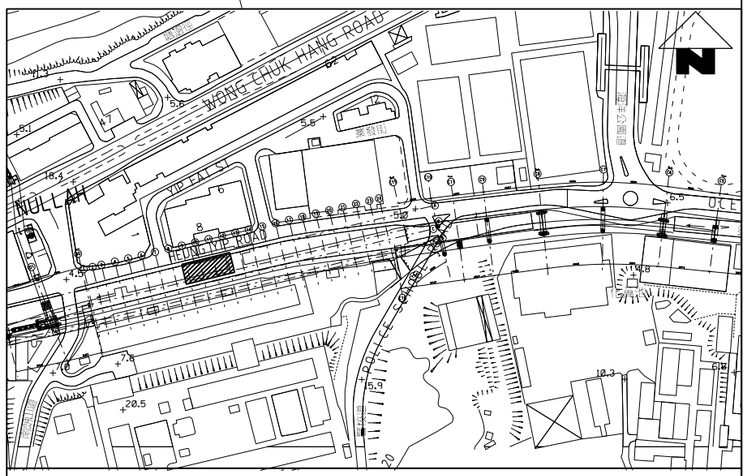


LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE



KEY LOCATION PLAN

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_517A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C3)
SHEET 1 OF 2

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/517	A

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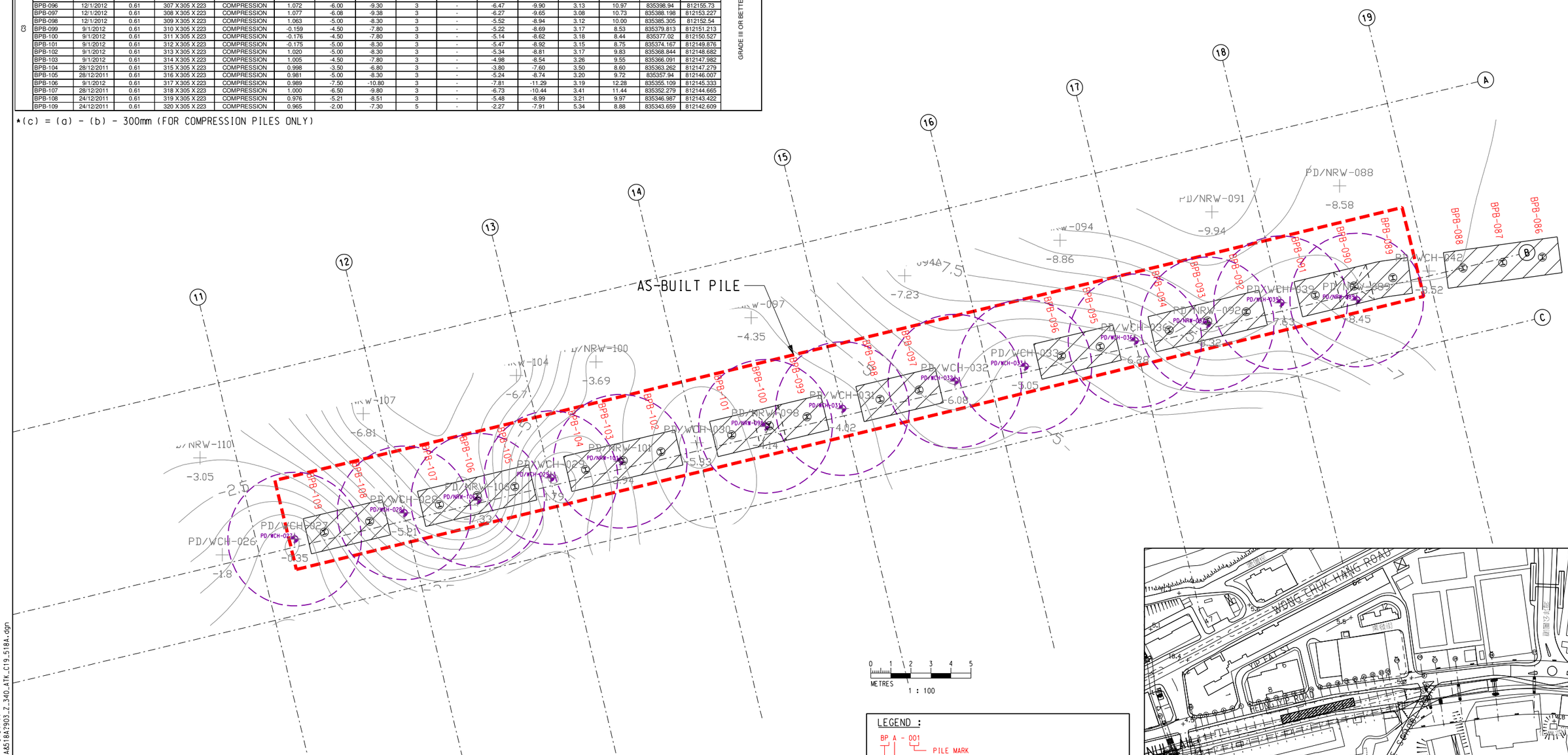
AS-BUILT PILING SCHEDULE

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE E	COORDINATE N	AS-BUILT FOUNDING MATERIAL
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)			
C3	BPB-089	14/1/2012	0.61	305 X 305 X 223	COMPRESSION	-0.043	-9.00	-12.30	3	-	-9.39	-12.86	3.17	12.82	835423.688	812161.649	GRADE III OR BETTER
	BPB-090	14/1/2012	0.61	305 X 305 X 223	COMPRESSION	-0.059	-8.50	-11.80	3	-	-8.92	-12.28	3.06	12.22	835420.727	812161.046	
	BPB-091	13/1/2012	0.61	305 X 305 X 223	COMPRESSION	-0.076	-8.50	-11.80	3	-	-8.92	-12.25	3.03	12.17	835417.866	812160.324	
	BPB-092	13/1/2012	0.61	305 X 305 X 223	COMPRESSION	1.084	-8.50	-11.80	3	-	-8.86	-12.29	3.13	13.37	835412.688	812159.078	
	BPB-093	13/1/2012	0.61	305 X 305 X 223	COMPRESSION	1.054	-8.50	-11.80	3	-	-8.93	-12.38	3.15	13.43	835409.822	812158.396	
	BPB-094	13/1/2012	0.61	305 X 305 X 223	COMPRESSION	1.053	-7.50	-10.80	3	-	-8.19	-11.59	3.10	12.64	835406.886	812157.676	
	BPB-095	12/1/2012	0.61	306 X 305 X 223	COMPRESSION	1.084	-6.50	-9.80	3	-	-6.84	-10.14	3.00	11.22	835401.752	812156.456	
	BPB-096	12/1/2012	0.61	307 X 305 X 223	COMPRESSION	1.072	-6.00	-9.30	3	-	-6.47	-9.90	3.13	10.97	835398.94	812155.73	
	BPB-097	12/1/2012	0.61	308 X 305 X 223	COMPRESSION	1.077	-6.08	-9.38	3	-	-6.27	-9.65	3.08	10.73	835388.198	812153.227	
	BPB-098	12/1/2012	0.61	309 X 305 X 223	COMPRESSION	1.063	-5.00	-8.30	3	-	-5.52	-8.94	3.12	10.00	835385.305	812152.54	
	BPB-099	9/1/2012	0.61	310 X 305 X 223	COMPRESSION	-0.159	-4.50	-7.80	3	-	-5.22	-8.69	3.17	8.53	835379.813	812151.213	
	BPB-100	9/1/2012	0.61	311 X 305 X 223	COMPRESSION	-0.176	-4.50	-7.80	3	-	-5.14	-8.62	3.18	8.44	835377.02	812150.527	
	BPB-101	9/1/2012	0.61	312 X 305 X 223	COMPRESSION	-0.175	-5.00	-8.30	3	-	-5.47	-8.92	3.15	8.75	835374.167	812149.876	
	BPB-102	9/1/2012	0.61	313 X 305 X 223	COMPRESSION	1.020	-5.00	-8.30	3	-	-5.34	-8.81	3.17	9.83	835368.844	812148.682	
	BPB-103	9/1/2012	0.61	314 X 305 X 223	COMPRESSION	1.005	-4.50	-7.80	3	-	-4.98	-8.54	3.26	9.55	835366.091	812147.982	
	BPB-104	28/12/2011	0.61	315 X 305 X 223	COMPRESSION	0.998	-3.50	-6.80	3	-	-3.80	-7.60	3.50	8.60	835363.262	812147.279	
	BPB-105	28/12/2011	0.61	316 X 305 X 223	COMPRESSION	0.981	-5.00	-8.30	3	-	-5.24	-8.74	3.20	9.72	835357.94	812146.007	
	BPB-106	9/1/2012	0.61	317 X 305 X 223	COMPRESSION	0.989	-7.50	-10.80	3	-	-7.81	-11.29	3.19	12.28	835355.109	812145.333	
	BPB-107	28/12/2011	0.61	318 X 305 X 223	COMPRESSION	1.000	-6.50	-9.80	3	-	-6.73	-10.44	3.41	11.44	835352.279	812144.665	
	BPB-108	24/12/2011	0.61	319 X 305 X 223	COMPRESSION	0.976	-5.21	-8.51	3	-	-5.48	-8.99	3.21	9.97	835346.987	812143.422	
	BPB-109	24/12/2011	0.61	320 X 305 X 223	COMPRESSION	0.965	-2.00	-7.30	5	-	-2.27	-7.91	5.34	8.88	835343.659	812142.609	

*(c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



0 1 2 3 4 5
METRES
1 : 100

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

KEY LOCATION PLAN

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm^2 AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_518A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C3)
SHEET 2 OF 2

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/518	A

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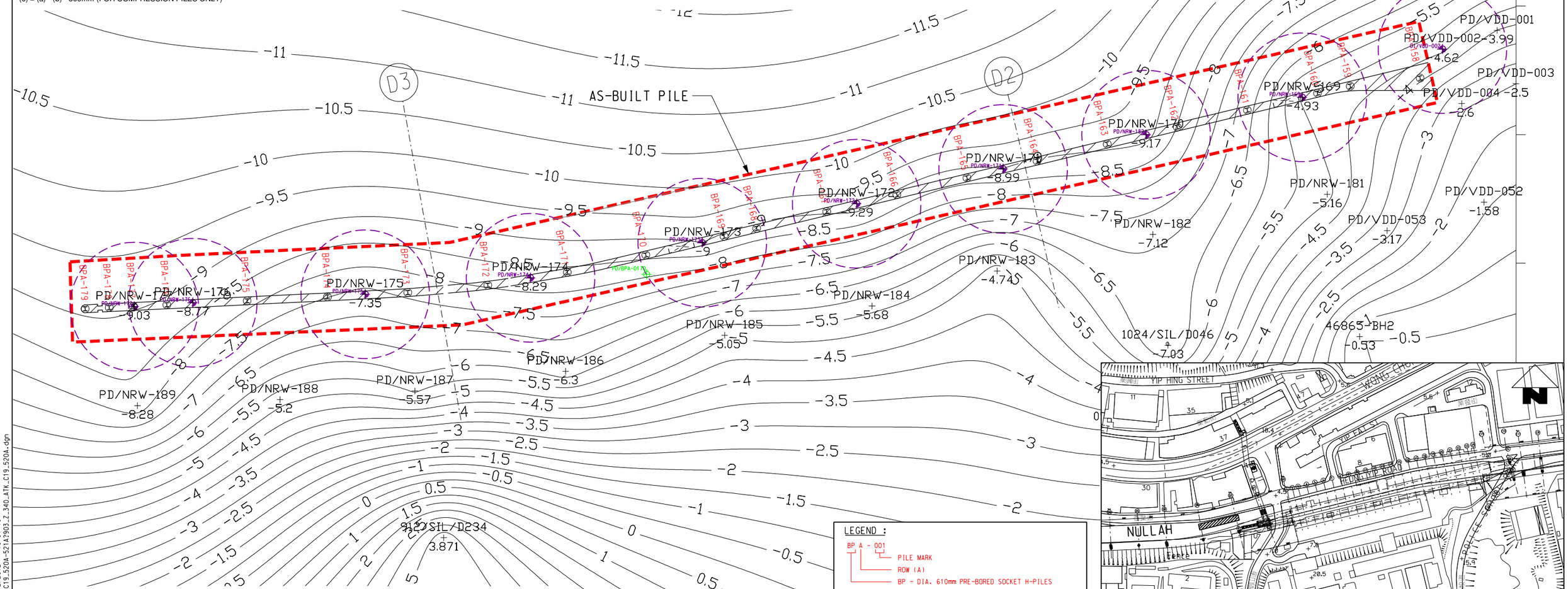
PRINTED BY: CFWoo
20/1/2012 9:04:44

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X	Y	OVERALL	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)	(mm)	(mm)	(mm)		
C4	BPA-158	28/11/2011	0.61	305 X 305 X 223	COMPRESSION	+0.688	-4.62	-8.42	3.50	-	-4.79	-8.75	3.66	9.44	-1	-16	16	250	GRADE III OR BETTER
	BPA-159	28/11/2011	0.61	305 X 305 X 223	COMPRESSION	+0.651	-5.00	-8.80	3.50	-	-5.32	-9.32	3.70	9.97	1	-4	4	162	
	BPA-160	28/11/2011	0.61	305 X 305 X 223	COMPRESSION	-0.560	-5.00	-9.80	4.50	-	-5.28	-10.20	4.62	9.64	67	34	75	223	
	BPA-161	30/11/2011	0.61	305 X 305 X 223	COMPRESSION	-0.600	-7.00	-11.80	4.50	-	-7.49	-12.50	4.71	11.90	22	8	23	194	
	BPA-162	30/11/2011	0.61	305 X 305 X 223	COMPRESSION	+0.601	-9.17	-13.47	4.00	-	-9.34	-13.92	4.28	14.52	1	-58	58	1414	
	BPA-163	30/11/2011	0.61	305 X 305 X 223	COMPRESSION	+0.581	-9.50	-13.80	4.00	-	-9.92	-14.47	4.25	15.05	-1	18	18	343	
	BPA-164	5/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.563	-9.50	-13.80	4.00	-	-9.67	-14.14	4.17	14.70	-23	-14	27	149	
	BPA-165	5/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.537	-9.00	-13.30	4.00	-	-9.28	-13.68	4.10	14.22	-11	-12	16	894	
	BPA-166	5/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.513	-9.29	-13.59	4.00	-	-9.86	-14.23	4.07	14.74	-13	25	28	707	
	BPA-167	5/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.511	-9.50	-13.80	4.00	-	-9.94	-14.40	4.16	14.91	-3	-16	16	500	
	BPA-168	6/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.512	-9.00	-13.30	4.00	-	-9.63	-14.11	4.18	14.62	29	20	35	392	
	BPA-169	6/12/2011	0.61	305 X 305 X 223	COMPRESSION	-0.698	-9.00	-13.30	4.00	-	-9.70	-14.13	4.13	13.43	22	5	22	275	
	BPA-170	13/12/2011	0.61	305 X 305 X 223	COMPRESSION	-0.685	-9.00	-13.80	4.50	-	-9.31	-14.21	4.60	13.53	32	-5	33	157	
	BPA-171	13/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.504	-8.50	-13.30	4.50	-	-8.79	-13.67	4.58	14.17	26	-8	27	555	
	BPA-172	13/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.498	-8.50	-13.30	4.50	-	-8.72	-13.66	4.64	14.16	-17	-33	37	354	
	BPA-173	14/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.479	-8.00	-12.80	4.50	-	-8.69	-13.62	4.63	14.10	37	46	59	2000	
	BPA-174	14/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.450	-8.00	-12.80	4.50	-	-8.10	-13.44	5.04	13.89	-12	14	19	149	
	BPA-175	14/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.451	-8.77	-14.07	5.00	-	-9.19	-14.60	5.11	15.05	-14	30	33	137	
	BPA-176	15/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.427	-9.00	-14.30	5.00	-	-9.22	-14.69	5.17	15.12	8	8	11	104	
	BPA-177	15/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.438	-9.50	-11.30	1.50	-	-9.57	-11.41	1.54	11.85	0	3	3	632	
	BPA-178	16/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.414	-9.50	-11.30	1.50	-	-9.91	-11.83	1.62	12.24	14	26	30	298	
	BPA-179	15/12/2011	0.61	305 X 305 X 223	COMPRESSION	+0.399	-9.50	-11.30	1.50	-	-9.84	-13.39	3.25	13.79	-51	9	52	175	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

- BP A - 001
  - PILE MARK
  - ROW (A)
  - BP - DIA. 610mm PRE-BORED SOCKET H-PILES
- (H) DIA. 610mm PRE-BORED SOCKETED H-PILE
- PRE- DRILLING HOLE
- POST DRILLING HOLE

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30/DEC/11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_520A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C4)
SHEET 1 OF 5

SCALE	DRAWING NO.	REV.
1 : 150 (A1)	903/Z/340/ATK/C19/520	A

PLOT DRV: C:\Program Data\Bentley\MicroStation V8i (SELECTSeries1)\WorkSpace\System\plt\cfg\A3_colour.plt
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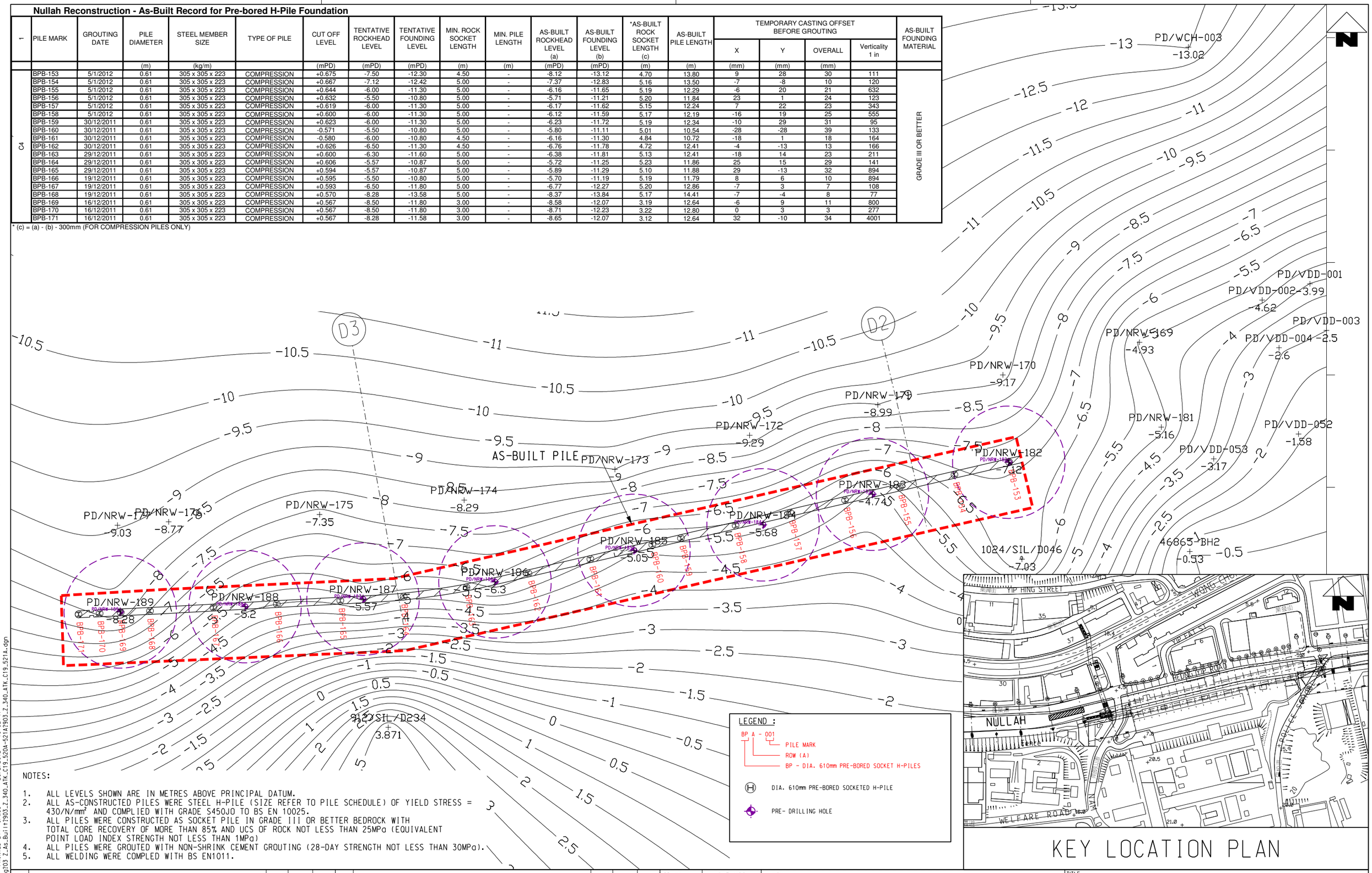
FILENAME: W:\CAL drawing\903 Z_As_Built\903_Z_340_ATK_C19_520A-521A\903_Z_340_ATK_C19_520A.dgn

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

←	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X	Y	OVERALL	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)	(mm)	(mm)	(mm)		
C4	BPB-153	5/1/2012	0.61	305 x 305 x 223	COMPRESSION	+0.675	-7.50	-12.30	4.50	-	-8.12	-13.12	4.70	13.80	9	28	30	111	GRADE III OR BETTER
	BPB-154	5/1/2012	0.61	305 x 305 x 223	COMPRESSION	+0.667	-7.12	-12.42	5.00	-	-7.37	-12.83	5.16	13.50	-7	-8	10	120	
	BPB-155	5/1/2012	0.61	305 x 305 x 223	COMPRESSION	+0.644	-6.00	-11.30	5.00	-	-6.16	-11.65	5.19	12.29	-6	20	21	632	
	BPB-156	5/1/2012	0.61	305 x 305 x 223	COMPRESSION	+0.632	-5.50	-10.80	5.00	-	-5.71	-11.21	5.20	11.84	23	1	24	123	
	BPB-157	5/1/2012	0.61	305 x 305 x 223	COMPRESSION	+0.619	-6.00	-11.30	5.00	-	-6.17	-11.62	5.15	12.24	7	22	23	343	
	BPB-158	5/1/2012	0.61	305 x 305 x 223	COMPRESSION	+0.600	-6.00	-11.30	5.00	-	-6.12	-11.59	5.17	12.19	-16	19	25	555	
	BPB-159	30/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.623	-6.00	-11.30	5.00	-	-6.23	-11.72	5.19	12.34	-10	29	31	95	
	BPB-160	30/12/2011	0.61	305 x 305 x 223	COMPRESSION	-0.571	-5.50	-10.80	5.00	-	-5.80	-11.11	5.01	10.54	-28	-28	39	133	
	BPB-161	30/12/2011	0.61	305 x 305 x 223	COMPRESSION	-0.580	-6.00	-10.80	4.50	-	-6.16	-11.30	4.84	10.72	-18	1	18	164	
	BPB-162	30/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.626	-6.50	-11.30	4.50	-	-6.76	-11.78	4.72	12.41	-4	-13	13	166	
	BPB-163	29/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.600	-6.30	-11.60	5.00	-	-6.38	-11.81	5.13	12.41	-18	14	23	211	
	BPB-164	29/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.606	-5.57	-10.87	5.00	-	-5.72	-11.25	5.23	11.86	25	15	29	141	
	BPB-165	29/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.594	-5.57	-10.87	5.00	-	-5.89	-11.29	5.10	11.88	29	-13	32	894	
	BPB-166	19/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.595	-5.50	-10.80	5.00	-	-5.70	-11.19	5.19	11.79	8	6	10	894	
	BPB-167	19/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.593	-6.50	-11.80	5.00	-	-6.77	-12.27	5.20	12.86	-7	3	7	108	
	BPB-168	19/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.570	-8.28	-13.58	5.00	-	-8.37	-13.84	5.17	14.41	-7	-4	8	77	
	BPB-169	16/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.567	-8.50	-11.80	3.00	-	-8.58	-12.07	3.19	12.64	-6	9	11	800	
	BPB-170	16/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.567	-8.50	-11.80	3.00	-	-8.71	-12.23	3.22	12.80	0	3	3	277	
	BPB-171	16/12/2011	0.61	305 x 305 x 223	COMPRESSION	+0.567	-8.28	-11.58	3.00	-	-8.65	-12.07	3.12	12.64	32	-10	34	4001	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_521A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C4)
SHEET 2 OF 5

SCALE	DRAWING NO.	REV.
1 : 150 (A1)	903/Z/340/ATK/C19/521	A

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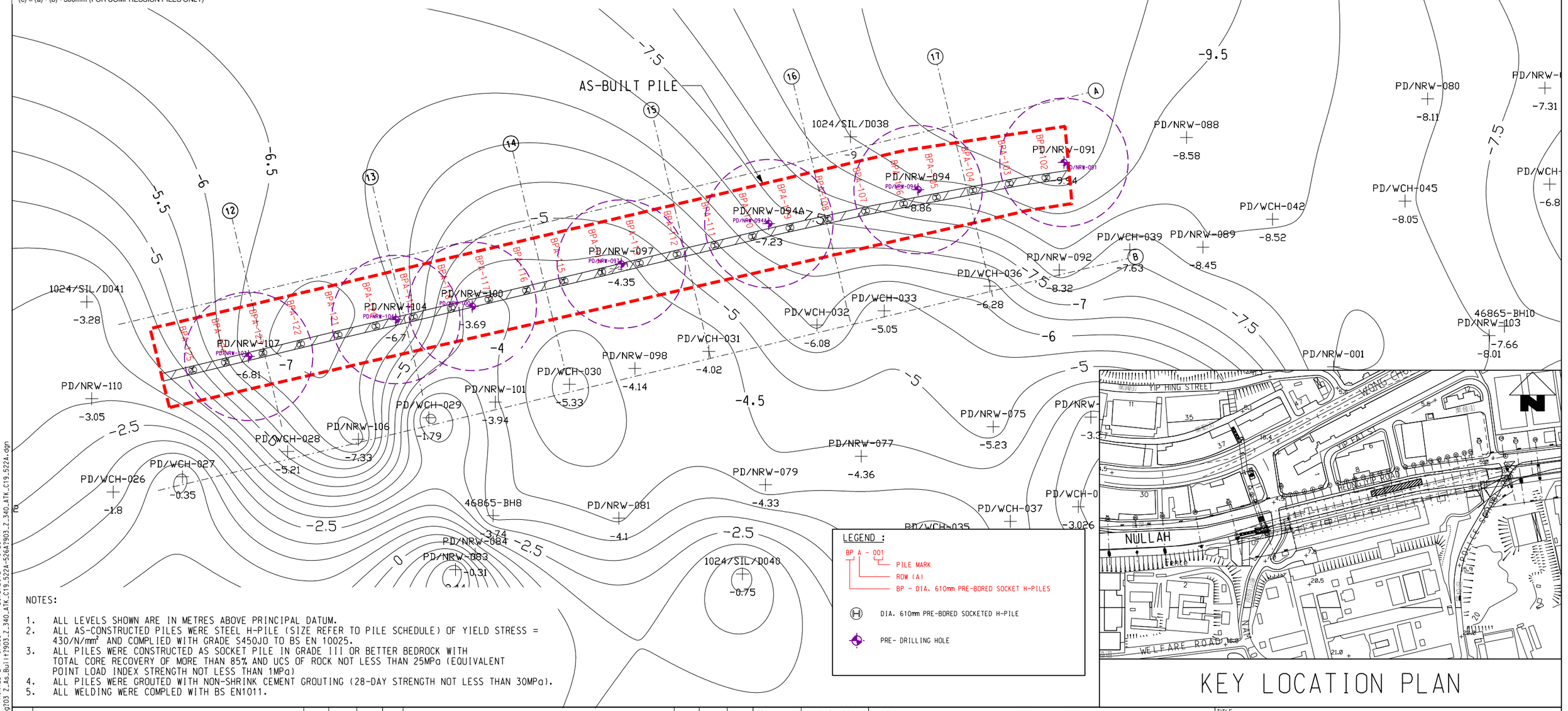
PRINTED BY: CFWoo 20/2/2012 10:32:47

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
C4	BPA-102	06/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.97	- 10.00	- 12.80	2.50	-	- 10.39	- 13.38	2.69	14.35	4	-26	26	283	GRADE III OR BETTER
	BPA-103	06/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.97	- 9.94	- 12.74	2.50	-	- 10.58	- 13.40	2.52	14.37	-32	-7	32	167	
	BPA-104	06/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.98	- 9.00	- 11.80	2.50	-	- 9.23	- 12.20	2.67	13.18	-35	-12	37	340	
	BPA-105	03/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.98	- 9.00	- 11.80	2.50	-	- 9.29	- 12.29	2.70	13.27	-23	26	35	92	
	BPA-106	03/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.98	- 8.86	- 11.66	2.50	-	- 9.41	- 12.35	2.64	13.33	1	-15	15	230	
	BPA-107	03/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.99	- 8.86	- 11.66	2.50	-	- 9.12	- 12.29	2.87	13.28	49	-17	52	313	
	BPA-108	31/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.98	- 8.00	- 10.80	2.50	-	- 8.30	- 11.33	2.73	12.31	3	67	67	343	
	BPA-109	31/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.97	- 7.50	- 10.30	2.50	-	- 7.73	- 10.79	2.76	11.76	4	-6	8	194	
	BPA-110	31/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.95	- 7.23	- 10.03	2.50	-	- 7.43	- 10.40	2.67	11.35	22	42	47	222	
	BPA-111	31/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.95	- 7.23	- 10.03	2.50	-	- 7.43	- 10.44	2.71	11.39	7	3	8	221	
	BPA-112	30/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.98	- 5.50	- 8.30	2.50	-	- 5.60	- 8.60	2.70	9.58	8	-5	10	358	
	BPA-113	30/01/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.24	- 5.00	- 7.80	2.50	-	- 5.19	- 8.18	2.69	7.94	9	-20	22	243	
	BPA-114	30/01/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.27	- 4.50	- 7.30	2.50	-	- 4.57	- 7.58	2.71	7.31	19	-4	20	179	
	BPA-115	18/01/2012	0.61	305 x 305 x 223	COMPRESSION	**- 0.25**	- 4.50	- 7.30	2.50	-	- 4.79	- 7.83	2.74	**7.58**	-22	-23	32	298	
	BPA-116	18/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.96	- 4.50	- 7.30	2.50	-	- 4.76	- 7.73	2.67	8.69	-35	2	36	126	
	BPA-117	18/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.97	- 4.00	- 6.80	2.50	-	- 4.33	- 7.36	2.73	8.33	4	-34	34	485	
	BPA-118	18/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.96	- 5.00	- 7.80	2.50	-	- 5.20	- 8.00	2.50	8.96	-4	-33	33	263	
	BPA-119	17/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.96	- 6.50	- 9.30	2.50	-	- 6.78	- 9.88	2.80	10.84	48	-35	59	125	
	BPA-120	17/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.96	- 7.00	- 9.80	2.50	-	- 7.17	- 10.13	2.66	11.09	21	-22	31	83	
	BPA-121	17/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.96	- 7.50	- 10.30	2.50	-	- 7.54	- 10.53	2.69	11.49	6	-10	11	343	
	BPA-122	16/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.96	- 7.50	- 10.30	2.50	-	- 7.96	- 10.98	2.72	11.94	8	2	8	116	
	BPA-123	16/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.96	- 7.00	- 9.80	2.50	-	- 7.00	- 10.11	2.81	11.07	3	-19	19	200	
	BPA-124	16/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.94	- 6.81	- 9.61	2.50	-	- 7.03	- 9.98	2.65	10.92	-8	0	8	263	
	BPA-125	14/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.95	- 6.81	- 9.61	2.50	-	- 7.00	- 9.93	2.63	10.88	-28	2	28	277	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_522A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C4)
SHEET 3 OF 5

SCALE	DRAWING NO.	REV.
1 : 150 (A1)	903/Z/340/ATK/C19/522	A

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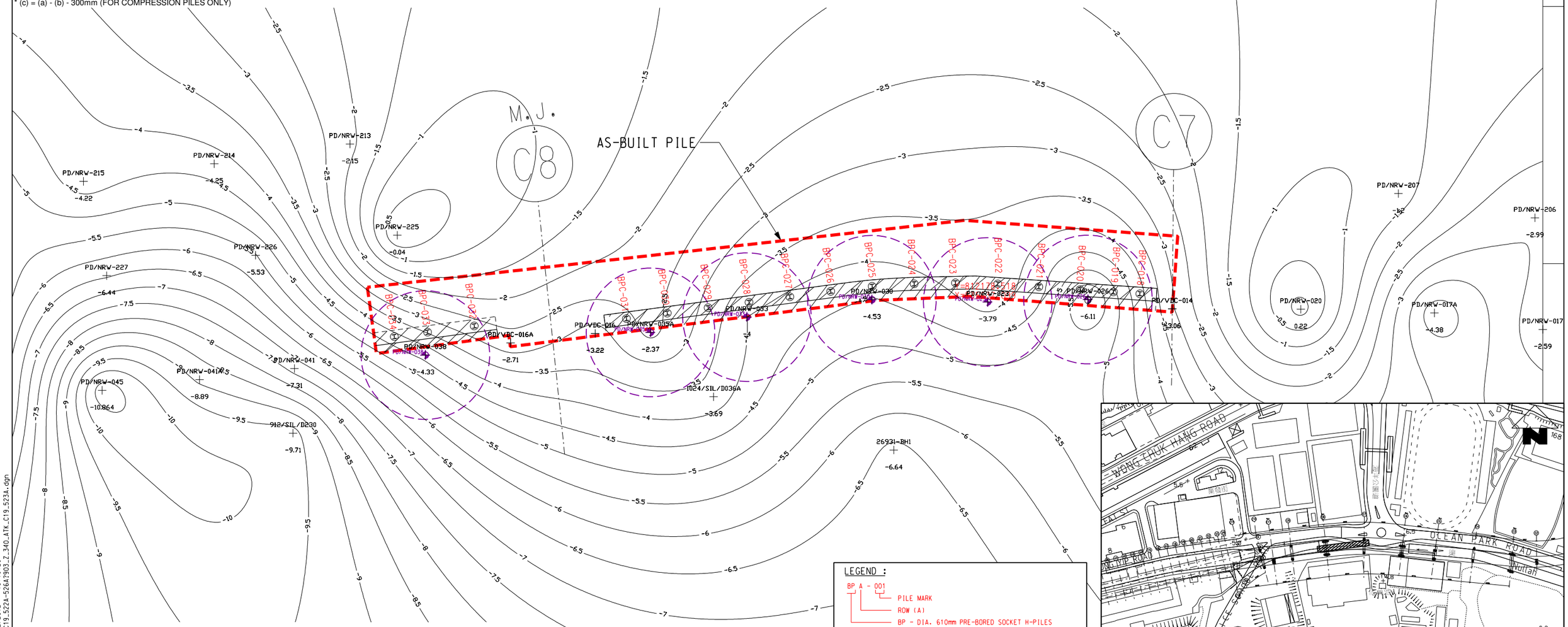
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X	Y	OVERALL	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)	(mm)	(mm)	(mm)		
C4	BPC-018	2/2/2012	0.61	305 x 305 x 223	COMPRESSION	0.580	-6.11	-8.91	2.50	-	-6.35	-9.29	2.64	9.87	-9	-11	14	200	GRADE III OR BETTER
	BPC-019	2/2/2012	0.61	305 x 305 x 223	COMPRESSION	0.580	-6.11	-8.91	2.50	-	-6.15	-9.10	2.65	9.68	32	26	41	212	
	BPC-020	2/2/2012	0.61	305 x 305 x 223	COMPRESSION	0.580	-6.11	-8.91	2.50	-	-6.40	-9.36	2.66	9.94	25	0	25	243	
	BPC-021	17/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.580	-4.50	-7.30	2.50	-	-4.50	-7.41	2.61	7.99	14	3	14	133	
	BPC-022	17/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.580	-4.00	-6.80	2.50	-	-4.24	-7.23	2.69	7.81	-24	57	62	485	
	BPC-023	16/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.580	**-4.00**	**-6.80**	2.50	-	-4.65	-7.52	2.57	8.10	-36	-4	36	194	
	BPC-024	16/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.580	-4.53	-7.33	2.50	-	-4.54	-7.37	2.53	7.95	-32	28	43	329	
	BPC-025	14/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.530	-4.53	-7.33	2.50	-	-5.06	-8.01	2.65	8.54	-9	22	24	707	
	BPC-026	13/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.530	-4.53	-7.33	2.50	-	-4.94	-7.80	2.56	8.33	-16	-2	16	400	
	BPC-027	19/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.530	-4.50	-7.30	2.50	-	-4.73	-7.73	2.70	8.26	-13	24	28	343	
	BPC-028	19/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.530	-4.00	-6.80	2.50	-	-4.44	-7.34	2.60	7.87	-63	23	66	447	
	BPC-029	18/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.530	-4.00	-6.80	2.50	-	-4.29	-7.24	2.65	7.77	-20	24	31	**343**	
	BPC-030	18/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.530	-3.00	-5.80	2.50	-	-3.29	-6.26	2.67	6.79	-53	-9	53	248	
	BPC-031	18/1/2012	0.61	305 x 305 x 223	COMPRESSION	0.400	-3.00	-5.80	2.50	-	-3.19	-6.20	2.71	6.60	-10	45	46	152	
	BPC-032	7/2/2012	0.61	305 x 305 x 223	COMPRESSION	0.340	-4.33	-7.13	2.50	-	-4.41	-7.40	2.69	7.74	2	-1	2	166	
	BPC-033	7/2/2012	0.61	305 x 305 x 223	COMPRESSION	0.340	**-4.33**	**-7.13**	2.50	-	-4.63	-7.67	2.74	8.01	31	30	43	248	
	BPC-034	7/2/2012	0.61	305 x 305 x 223	COMPRESSION	0.340	**-4.50**	**-7.30**	2.50	-	-5.16	-8.12	2.66	8.46	-45	5	46	400	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

KEY LOCATION PLAN

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REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_523A.dgn

TITLE

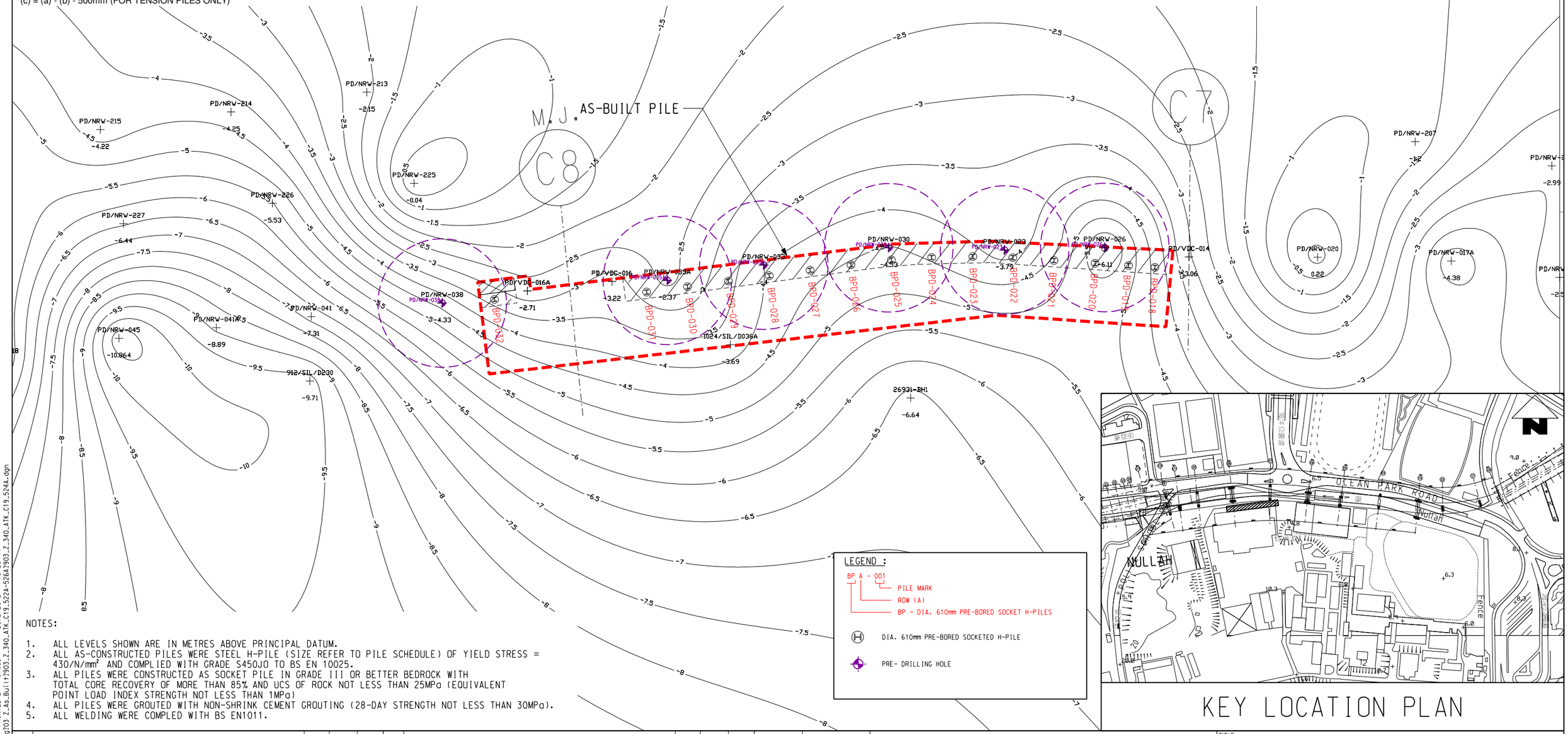
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C4)
SHEET 4 OF 5

SCALE	DRAWING NO.	REV.
1 : 150 (A1)	903/Z/340/ATK/C19/523	A

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X	Y	OVERALL	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)	(mm)	(mm)	(mm)		
C4	BPD-018	28/1/2012	0.61	305 x 305 x 223	TENSION	1.120	-6.11	-9.11	2.50	7	-6.16	-10.32	3.66	11.44	-35	9	36	343	GRADE III OR BETTER
	BPD-019	28/1/2012	0.61	305 x 305 x 223	TENSION	1.120	-6.11	-9.61	3.00	8	-6.20	-10.85	4.15	11.97	5	51	51	234	
	BPD-020	28/1/2012	0.61	305 x 305 x 223	TENSION	1.120	-6.11	-9.61	3.00	8	-6.19	-10.87	4.18	11.99	65	-25	70	94	
	BPD-021	4/1/2012	0.61	305 x 305 x 223	TENSION	1.120	-5.00	-8.50	3.00	8	-5.05	-9.70	4.15	10.82	36	22	42	2000	
	BPD-022	4/1/2012	0.61	305 x 305 x 223	TENSION	1.120	-4.50	-8.00	3.00	8	-4.86	-9.61	4.25	10.73	56	2	56	343	
	BPD-023	4/1/2012	0.61	305 x 305 x 223	TENSION	1.120	-4.50	-8.00	3.00	8	-4.68	-9.34	4.16	10.46	34	19	39	447	
	BPD-024	31/12/2011	0.61	305 x 305 x 223	TENSION	1.120	**-4.53**	**-8.03**	3.00	8	-5.15	-9.77	4.12	10.89	7	27	28	275	
	BPD-025	31/12/2011	0.61	305 x 305 x 223	TENSION	1.070	-5.00	-8.50	3.00	8	-5.04	-9.62	4.08	10.69	-26	-56	62	211	
	BPD-026	31/12/2011	0.61	305 x 305 x 223	TENSION	1.070	-5.00	-8.50	3.00	8	-5.08	-9.70	4.12	10.77	-20	21	29	250	
	BPD-027	13/1/2012	0.61	305 x 305 x 223	TENSION	1.070	-4.50	-8.00	3.00	8	-4.72	-9.34	4.12	10.41	4	24	25	75	
	BPD-028	13/1/2012	0.61	305 x 305 x 223	TENSION	1.070	-4.50	-8.00	3.00	8	-4.71	-9.32	4.11	10.39	37	3	38	126	
	BPD-029	12/1/2012	0.61	305 x 305 x 223	TENSION	1.070	-4.00	-7.50	3.00	8	-4.53	-9.22	4.19	10.29	17	11	20	175	
	BPD-030	12/1/2012	0.61	305 x 305 x 223	TENSION	1.070	-3.00	-6.93	3.00	8	-3.33	-8.00	4.17	9.07	-13	10	16	139	
	BPD-031	12/1/2012	0.61	305 x 305 x 223	TENSION	0.940	-3.00	-6.50	3.00	6	-3.20	-8.39	4.69	9.33	-8	-36	36	164	
	BPD-032	7/2/2012	0.61	305 x 305 x 223	TENSION	0.880	-4.33	-7.12	2.00	8	-4.75	-7.34	2.09	8.22	-17	-27	32	250	

* (c) = (a) - (b) - 500mm (FOR TENSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	30DEC11

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_524A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C4)
SHEET 5 OF 5

SCALE	DRAWING NO.	REV.
1 : 150 (A1)	903/Z/340/ATK/C19/524	A

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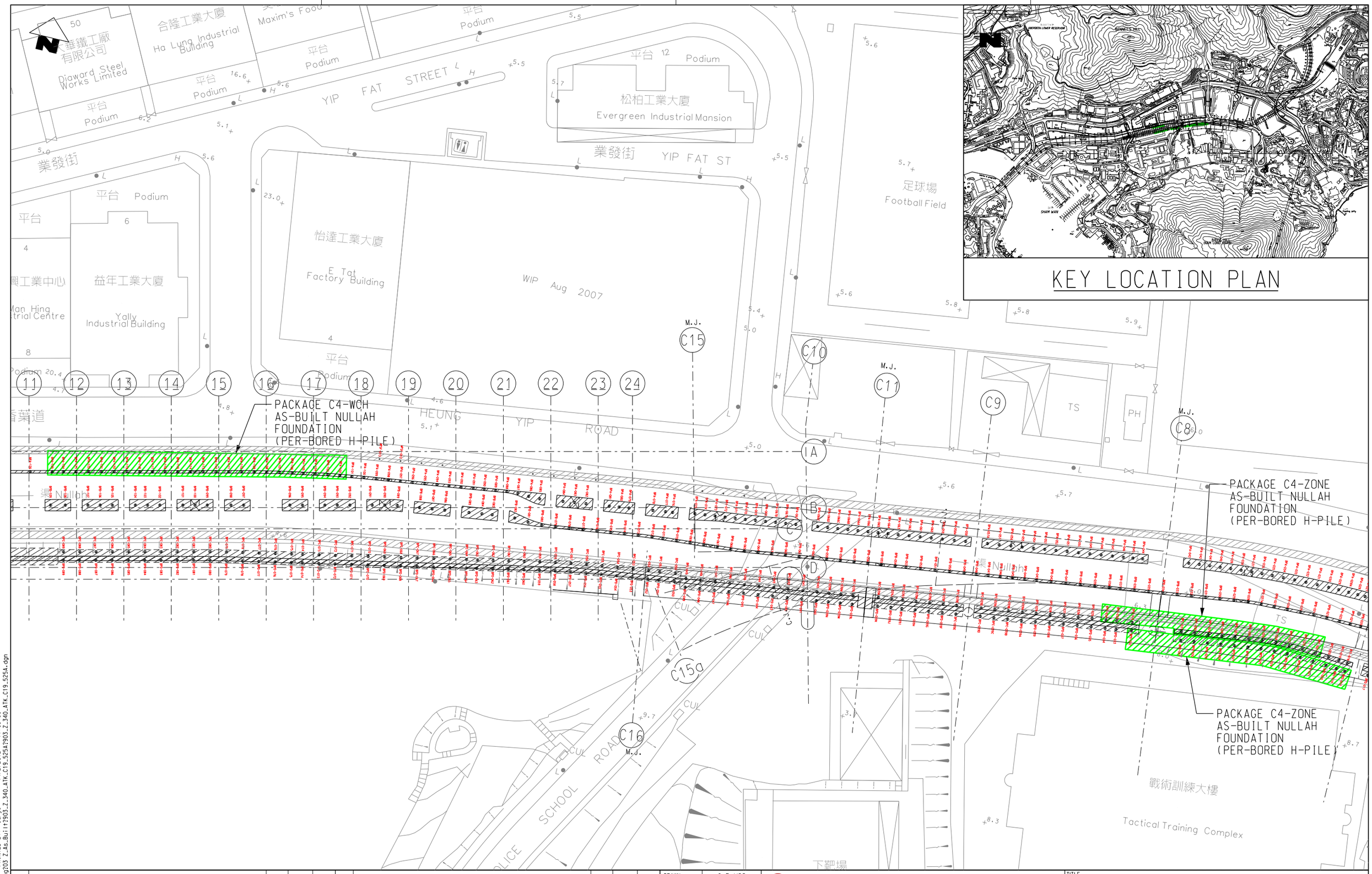

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	

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SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_525A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PER-BORED H-PILES)
LOCATION PLAN (PACKAGE C4)

SCALE 1 : 400 (A1)

DRAWING NO. 903/Z/340/ATK/C19/525

REV. A

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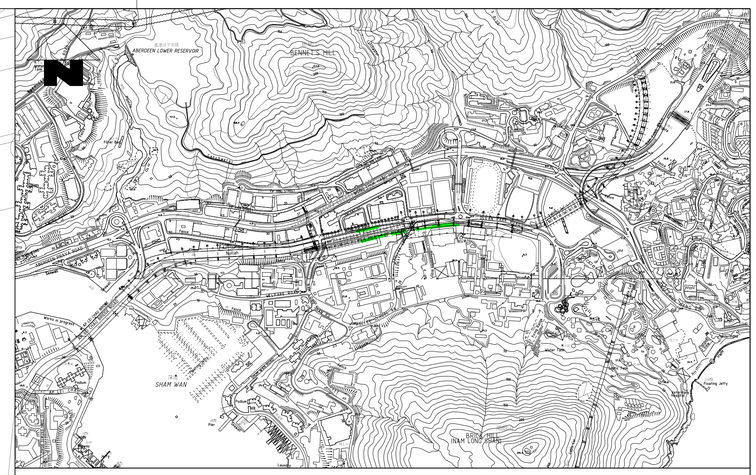

KEY LOCATION PLAN

PACKAGE C4-WCH
AS-BUILT NULLAH
FOUNDATION
(PER-BORED H-PILE)

PACKAGE C4-ZONE
AS-BUILT NULLAH
FOUNDATION
(PER-BORED H-PILE)

HEUNG YIP ROAD
NAM LONG SHAN ROAD
Good Prospect Factory Building
Lee Fund Centre
利基中心
Leader Centre
Elevated Road
高架道路
建德工業大廈 Kin Teck Industrial Building
保濟工業大廈 Po Chai Industrial Building
長德工業大廈 Cheung Tak Industrial Building
華明大廈 Wah Ming Building
仁孚香港仔車廠 Zung Fu Aberdeen Garage
載思中心 Joyce Building
貴寶工業大廈 Kwai Bo Industrial Building
南朗山道休憩處 Nam Long Shan Road Sitting-out Area
Scomber Building
金寶大樓
Gee Luen Hing Industrial Building
太王爺廟 Tai Wong Ye Temple
南朗山道兒童遊樂場 Nam Long Shan Road Children's Playground
南朗山道熟食市場 Nam Long Shan Road Cooked Food Market
安貧小姊妹會 聖瑪利安老院 Little Sisters of the Poor St. Mary's Home for the Aged
香葉道
Podium
平台
Zone A Yip Kan Road Substation
M.J.
D0
D1
D2
D3
D4
D5
SHR
ESS
CW
CUL

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_526A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PER-BORED H-PILES)
LOCATION PLAN (PACKAGE C4)

SCALE	DRAWING NO.	REV.
1 : 400 (A1)	903/Z/340/ATK/C19/526	A

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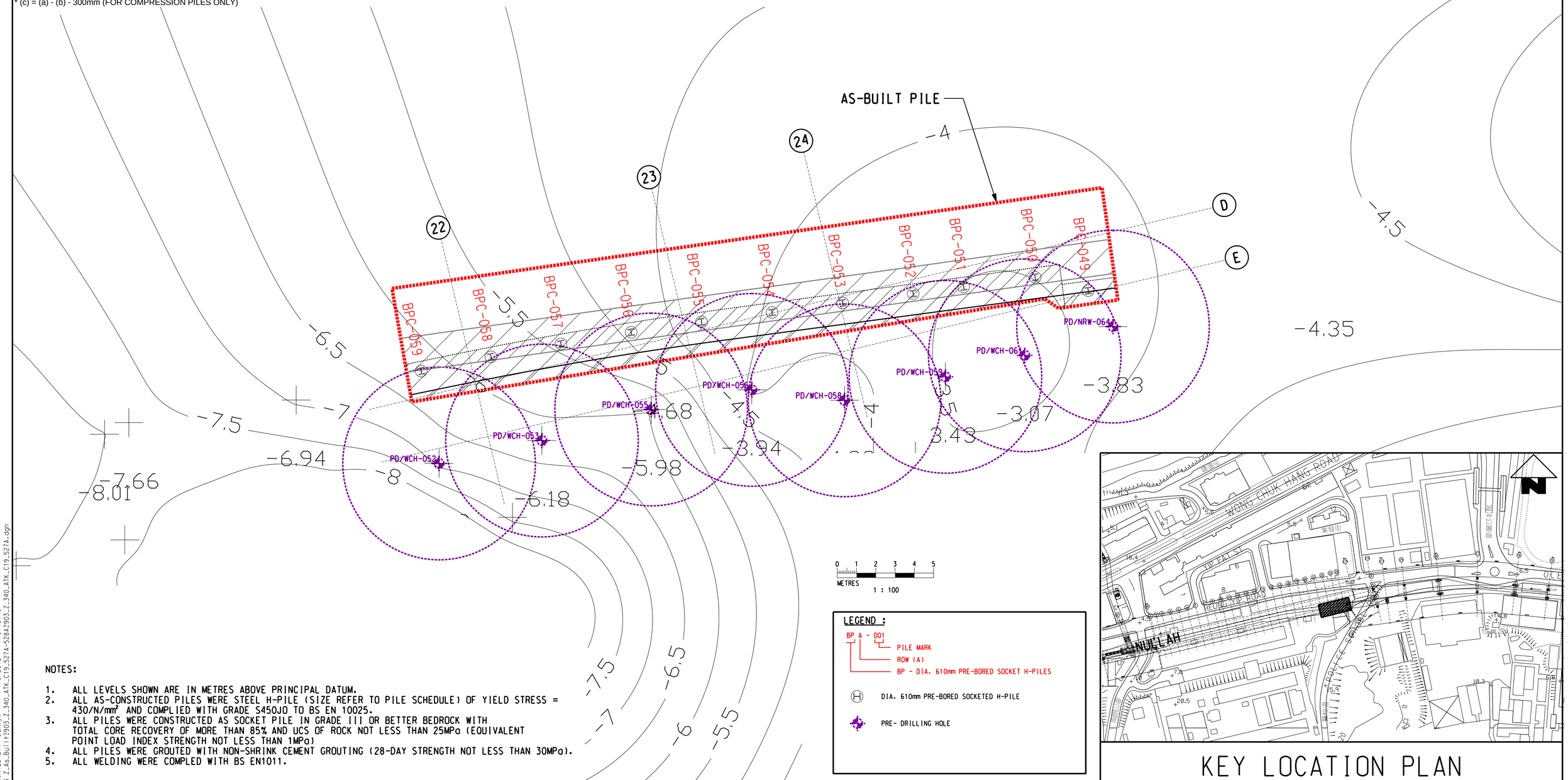
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X	Y	OVERALL	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)	(mm)	(mm)	(mm)		
C6	BPC-049	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.03	- 4.00	- 7.30	3.00	-	- 4.33	- 7.90	3.27	7.93	10	16	19	800	GRADE III OR BETTER
	BPC-050	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.03	- 4.00	- 7.30	3.00	-	- 4.10	- 7.90	3.50	7.93	-39	35	53	496	
	BPC-051	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.03	- 3.50	- 6.80	3.00	-	- 3.66	- 7.37	3.41	7.40	16	3	16	894	
	BPC-052	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.01	- 4.00	- 7.30	3.00	-	- 4.02	- 7.54	3.22	7.55	9	-6	10	196	
	BPC-053	16/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.01	- 4.32	- 7.62	3.00	-	- 4.68	- 8.13	3.15	8.14	-10	6	11	277	
	BPC-054	16/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.01	- 4.00	- 7.30	3.00	-	- 4.19	- 7.93	3.44	7.94	10	5	11	485	
	BPC-055	16/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.01	- 4.50	- 7.80	3.00	-	- 4.89	- 8.56	3.37	8.57	9	-35	36	248	
	BPC-056	16/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.01	- 5.98	- 9.28	3.00	-	- 6.31	- 9.93	3.32	9.94	26	0	26	500	
	BPC-057	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.01	- 6.18	- 9.48	3.00	-	- 6.58	- 10.45	3.57	10.46	13	25	29	248	
	BPC-058	14/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.01	- 6.18	- 9.48	3.00	-	- 7.34	- 10.95	3.31	10.96	26	39	47	140	
	BPC-059	14/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.01	- 6.88	- 10.18	3.00	-	- 8.35	- 11.91	3.26	11.92	30	-13	32	153	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

(H) DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

KEY LOCATION PLAN

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	25FEB12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_527A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C6)
SHEET 1 OF 2

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/527	A

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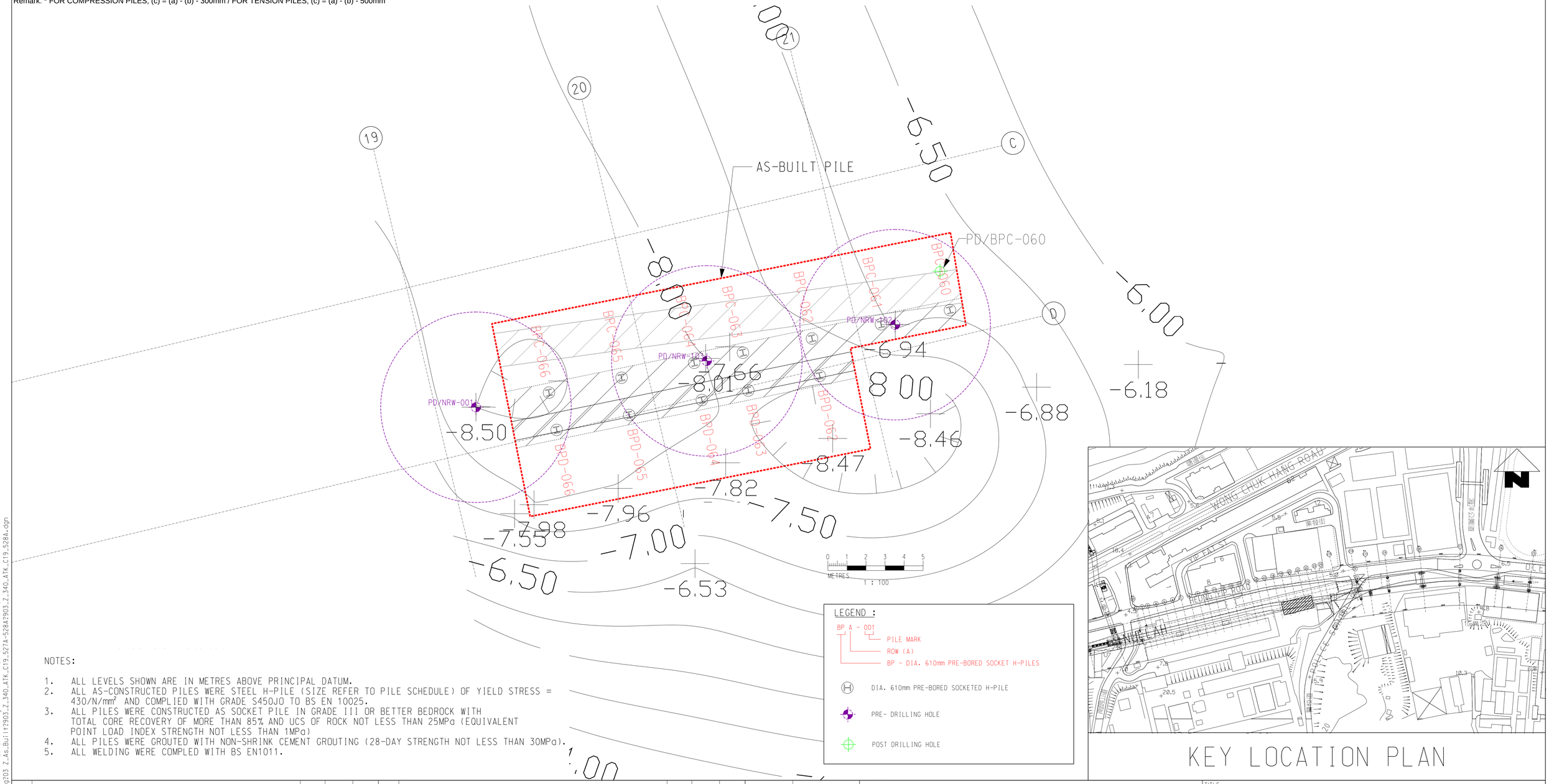
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X	Y	OVERALL	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)	(mm)	(mm)	(mm)		
C6	BPC-060	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.11	- 7.00	- 10.30	3.00	-	- 8.56	- 12.15	3.29	12.04	8	-17	19	105	GRADE III OR BETTER
	BPC-061	14/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.11	- 7.50	- 10.80	3.00	-	- 7.71	- 11.52	3.51	11.41	-31	24	39	124	
	BPC-062	10/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.11	- 8.00	- 11.30	3.00	-	- 8.08	- 11.87	3.49	11.76	22	60	64	77	
	BPC-063	10/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.11	- 8.01	- 11.31	3.00	-	- 8.08	- 11.88	3.50	11.77	-19	62	65	202	
	BPC-064	18/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.11	- 8.50	- 11.80	3.00	-	- 8.64	- 12.19	3.25	12.08	-21	9	23	211	
	BPC-065	13/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.11	- 8.50	- 11.80	3.00	-	- 8.71	- 12.23	3.22	12.12	-16	-18	24	333	
	BPC-066	18/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.11	- 9.00	- 12.30	3.00	-	- 9.30	- 12.99	3.39	12.88	8	-36	37	150	
	BPD-062	10/02/2012	0.61	305 x 305 x 223	TENSION	+ 0.44	- 8.00	- 11.00	2.50	8	- 8.05	- 11.47	2.92	11.91	-23	86	89	89	
	BPD-063	10/02/2012	0.61	305 x 305 x 223	TENSION	+ 0.44	- 8.01	- 11.01	2.50	8	- 8.18	- 11.63	2.95	12.07	-61	74	96	131	
	BPD-064	13/02/2012	0.61	305 x 305 x 223	TENSION	+ 0.44	- 8.50	- 11.50	2.50	8	- 8.63	- 11.95	2.82	12.39	-35	-3	35	248	
	BPD-065	13/02/2012	0.61	305 x 305 x 223	TENSION	+ 0.44	- 8.50	- 11.50	2.50	8	- 8.60	- 11.83	2.73	12.27	32	-38	50	1414	
	BPD-066	13/02/2012	0.61	305 x 305 x 223	TENSION	+ 0.44	- 8.50	- 11.50	2.50	8	- 8.88	- 11.99	2.61	12.43	-19	-38	42	222	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm / FOR TENSION PILES; (c) = (a) - (b) - 500mm



LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILLING HOLE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	25 FEB 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_528A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C6)
SHEET 2 OF 2

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/528	A

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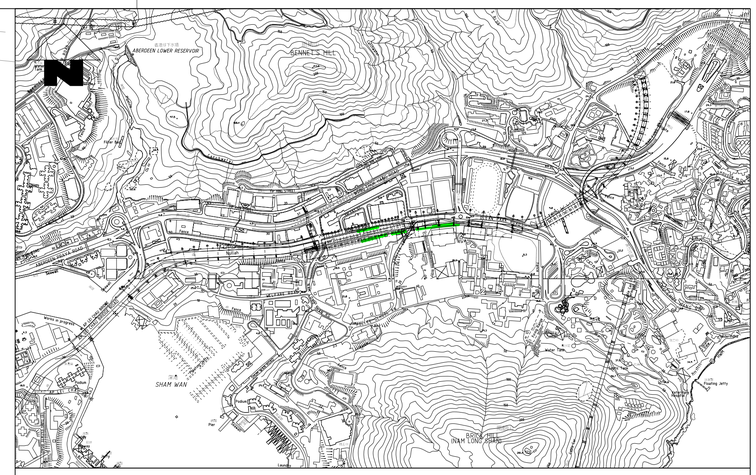

KEY LOCATION PLAN

PACKAGE C6-WCH
AS-BUILT NULLAH
FOUNDATION
(PER-BORED H-PILE)

PACKAGE C6-ZONE
AS-BUILT NULLAH
FOUNDATION
(PER-BORED H-PILE)

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_529A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PER-BORED H-PILES)
LOCATION PLAN (PACKAGE C6)

SCALE	DRAWING NO.	REV.
1 : 400 (A1)	903/Z/340/ATK/C19/529	A

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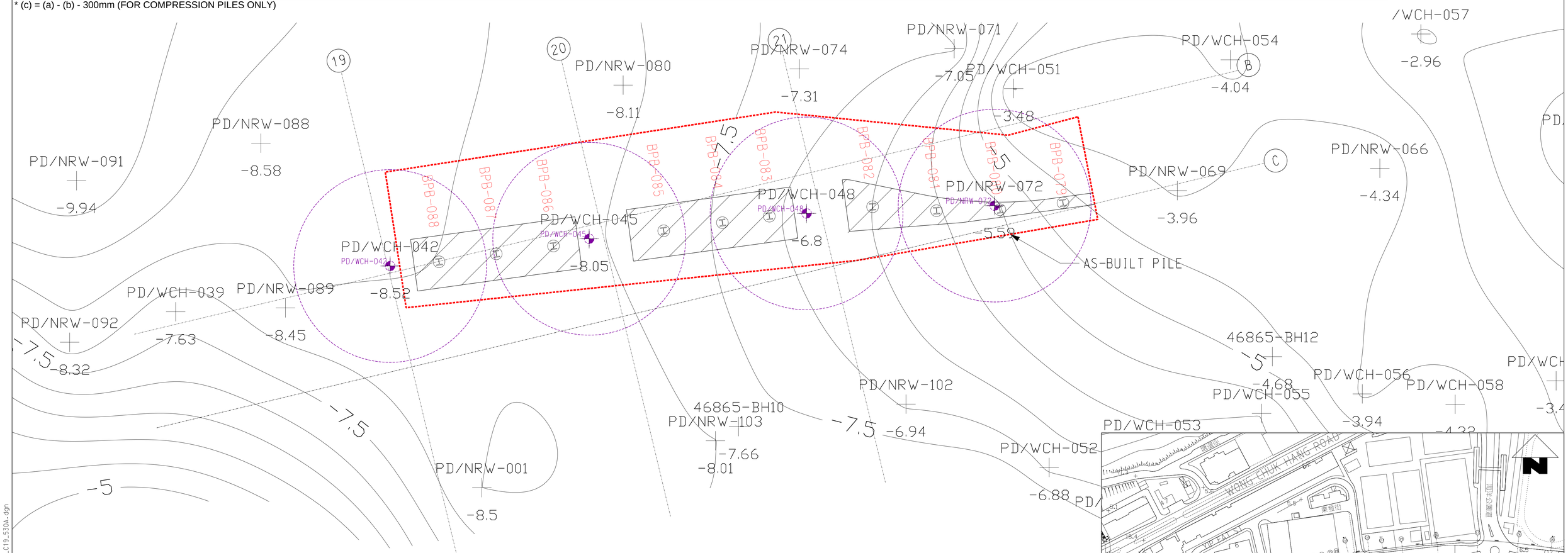
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
	BPB-079	21/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.27	- 5.59	- 8.39	2.50	-	- 5.69	- 8.97	2.98	10.24	3	13	13	113	
	BPB-080	20/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.25	- 6.00	- 8.80	2.50	-	- 6.26	- 9.41	2.85	10.66	2	-19	19	312	
	BPB-081	20/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.25	- 6.50	- 9.80	3.00	-	- 6.62	- 10.20	3.28	11.45	17	-40	43	111	
	BPB-082	20/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.25	- 7.00	- 10.30	3.00	-	- 7.40	- 10.89	3.19	12.14	24	12	27	196	
	BPB-083	20/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.23	- 7.50	- 10.80	3.00	-	- 7.58	- 11.21	3.33	12.44	2	14	15	400	
	BPB-084	20/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.21	- 7.50	- 10.80	3.00	-	- 7.61	- 11.19	3.28	12.40	2	-9	9	1000	
	BPB-085	24/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.20	- 8.05	- 11.35	3.00	-	- 8.19	- 11.85	3.36	13.05	303	-22	37	329	
	BPB-086	08/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.21	- 8.50	- 11.80	3.00	-	- 8.97	- 12.49	3.22	13.70	0	-31	31	143	
	BPB-087	08/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.20	- 8.50	- 11.80	3.00	-	- 8.84	- 12.23	3.09	13.43	-28	6	29	277	
	BPB-088	08/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.18	- 8.52	- 11.82	3.00	-	- 8.85	- 12.53	3.38	13.71	-5	-37	37	243	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

0 1 2 3 4 5
METRES
1 : 100

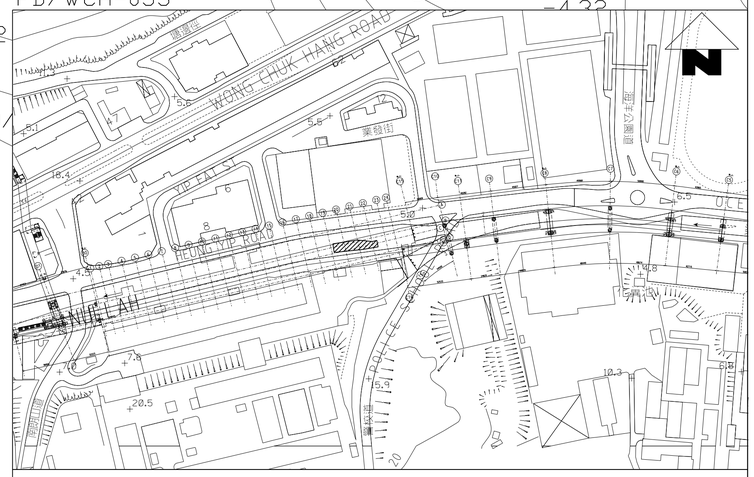
LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILLING HOLE



KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	25 FEB 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_530A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C5)
SHEET 1 OF 3

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/530	A

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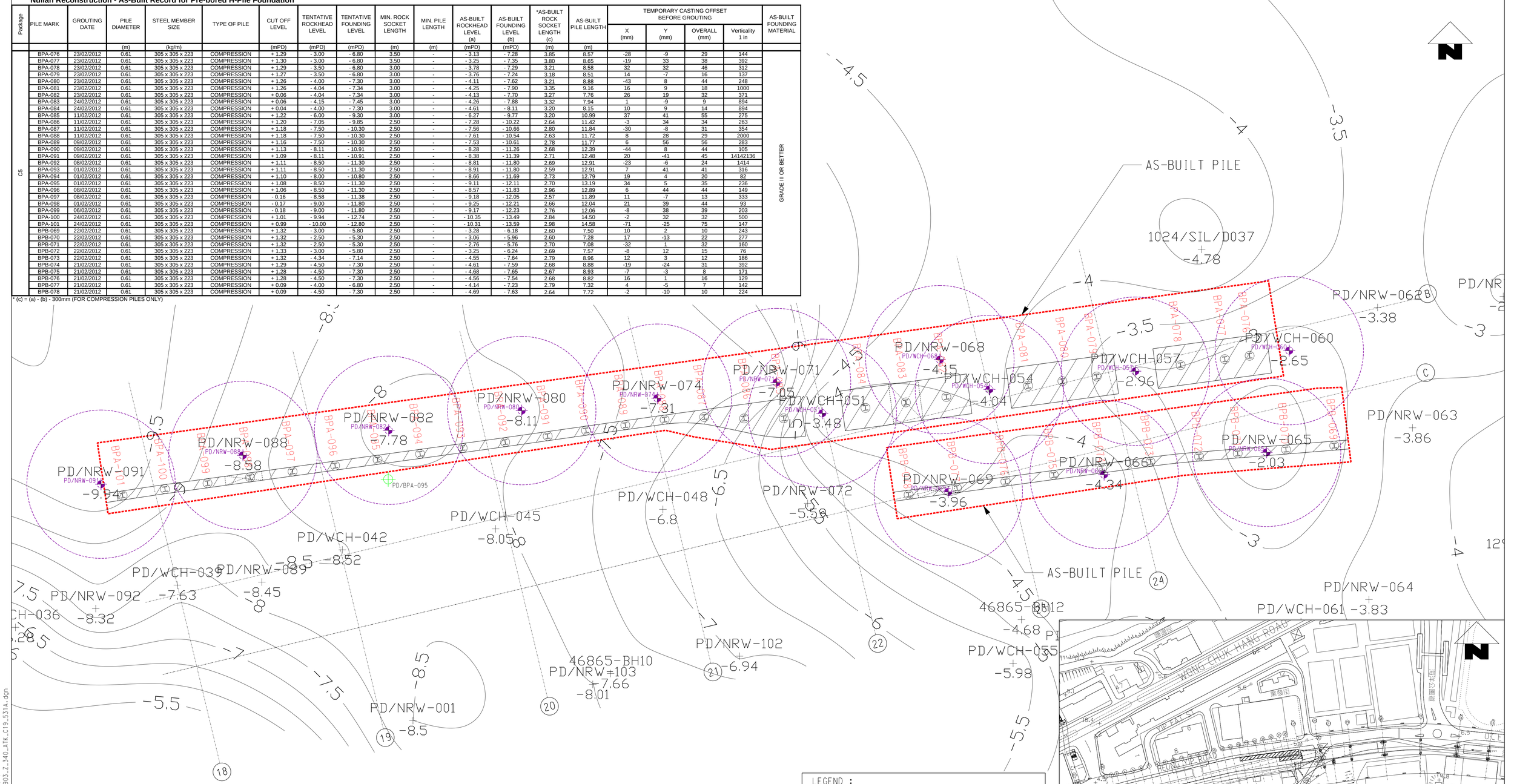
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
C5	BPA-076	23/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.29	- 3.00	- 6.80	3.50	-	- 3.13	- 7.28	3.85	8.57	-28	-9	29	144	GRADE III OR BETTER
	BPA-077	23/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.30	- 3.00	- 6.80	3.50	-	- 3.25	- 7.35	3.80	8.65	-19	33	38	392	
	BPA-078	23/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.29	- 3.50	- 6.80	3.00	-	- 3.78	- 7.29	3.21	8.58	32	32	46	312	
	BPA-079	23/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.27	- 3.50	- 6.80	3.00	-	- 3.76	- 7.24	3.18	8.51	14	-7	16	137	
	BPA-080	23/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.26	- 4.00	- 7.30	3.00	-	- 4.11	- 7.62	3.21	8.88	-43	8	44	248	
	BPA-081	23/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.26	- 4.04	- 7.34	3.00	-	- 4.25	- 7.90	3.35	9.16	16	9	18	1000	
	BPA-082	23/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.06	- 4.04	- 7.34	3.00	-	- 4.13	- 7.70	3.27	7.76	26	19	32	371	
	BPA-083	24/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.06	- 4.15	- 7.45	3.00	-	- 4.26	- 7.88	3.32	7.94	1	-9	9	894	
	BPA-084	24/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.04	- 4.00	- 7.30	3.00	-	- 4.61	- 8.11	3.20	8.15	10	9	14	894	
	BPA-085	11/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.22	- 6.00	- 9.30	3.00	-	- 6.27	- 9.77	3.20	10.99	37	41	55	275	
	BPA-086	11/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.20	- 7.05	- 9.85	2.50	-	- 7.28	- 10.22	2.64	11.42	-3	34	34	263	
	BPA-087	11/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.18	- 7.50	- 10.30	2.50	-	- 7.56	- 10.66	2.80	11.84	-30	-8	31	354	
	BPA-088	11/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.18	- 7.50	- 10.30	2.50	-	- 7.61	- 10.54	2.63	11.72	8	28	29	2000	
	BPA-089	09/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.16	- 7.50	- 10.30	2.50	-	- 7.53	- 10.61	2.78	11.77	6	56	56	283	
	BPA-090	09/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.13	- 8.11	- 10.91	2.50	-	- 8.28	- 11.26	2.68	12.39	-44	8	44	105	
	BPA-091	09/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.09	- 8.11	- 10.91	2.50	-	- 8.38	- 11.39	2.71	12.48	20	-41	45	14142136	
	BPA-092	08/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.11	- 8.50	- 11.30	2.50	-	- 8.81	- 11.80	2.69	12.91	-23	-6	24	1414	
	BPA-093	01/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.11	- 8.50	- 11.30	2.50	-	- 8.91	- 11.80	2.59	12.91	7	41	41	316	
	BPA-094	01/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.10	- 8.00	- 10.80	2.50	-	- 8.66	- 11.69	2.73	12.79	19	4	20	82	
	BPA-095	01/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.08	- 8.50	- 11.30	2.50	-	- 9.11	- 12.11	2.70	13.19	34	5	35	236	
	BPA-096	08/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.06	- 8.50	- 11.30	2.50	-	- 8.57	- 11.83	2.96	12.89	6	44	44	149	
	BPA-097	08/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.16	- 8.58	- 11.38	2.50	-	- 9.18	- 12.05	2.57	11.89	11	-7	13	333	
	BPA-098	01/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.17	- 9.00	- 11.80	2.50	-	- 9.25	- 12.21	2.66	12.04	21	39	44	93	
	BPA-099	06/02/2012	0.61	305 x 305 x 223	COMPRESSION	- 0.18	- 9.00	- 11.80	2.50	-	- 9.17	- 12.23	2.76	12.06	-8	38	39	203	
	BPA-100	24/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.01	- 9.94	- 12.74	2.50	-	- 10.35	- 13.49	2.84	14.50	-2	32	32	500	
	BPA-101	24/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.99	- 10.00	- 12.80	2.50	-	- 10.31	- 13.59	2.98	14.58	-71	-25	75	147	
	BPB-069	22/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.32	- 3.00	- 5.80	2.50	-	- 3.28	- 6.18	2.60	7.50	10	2	10	243	
	BPB-070	22/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.32	- 2.50	- 5.30	2.50	-	- 3.06	- 5.96	2.60	7.28	17	-13	22	277	
	BPB-071	22/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.32	- 2.50	- 5.30	2.50	-	- 2.76	- 5.76	2.70	7.08	-32	1	32	160	
	BPB-072	22/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.33	- 3.00	- 5.80	2.50	-	- 3.25	- 6.24	2.69	7.57	-8	12	15	76	
	BPB-073	22/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.32	- 4.34	- 7.14	2.50	-	- 4.55	- 7.64	2.79	8.96	12	3	12	186	
	BPB-074	21/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.29	- 4.50	- 7.30	2.50	-	- 4.61	- 7.59	2.68	8.88	-19	-24	31	392	
	BPB-075	21/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.28	- 4.50	- 7.30	2.50	-	- 4.68	- 7.65	2.67	8.93	-7	-3	8	171	
	BPB-076	21/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.28	- 4.50	- 7.30	2.50	-	- 4.56	- 7.54	2.68	8.82	16	1	16	129	
	BPB-077	21/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.09	- 4.00	- 6.80	2.50	-	- 4.14	- 7.23	2.79	7.32	4	-5	7	142	
	BPB-078	21/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.09	- 4.50	- 7.30	2.50	-	- 4.69	- 7.63	2.64	7.72	-2	-10	10	224	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



KEY LOCATION PLAN

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILLING HOLE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	25 FEB 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_531A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C5)
SHEET 2 OF 3

SCALE	DRAWING NO.	REV.
1 : 125 (A1)	903/Z/340/ATK/C19/531	A

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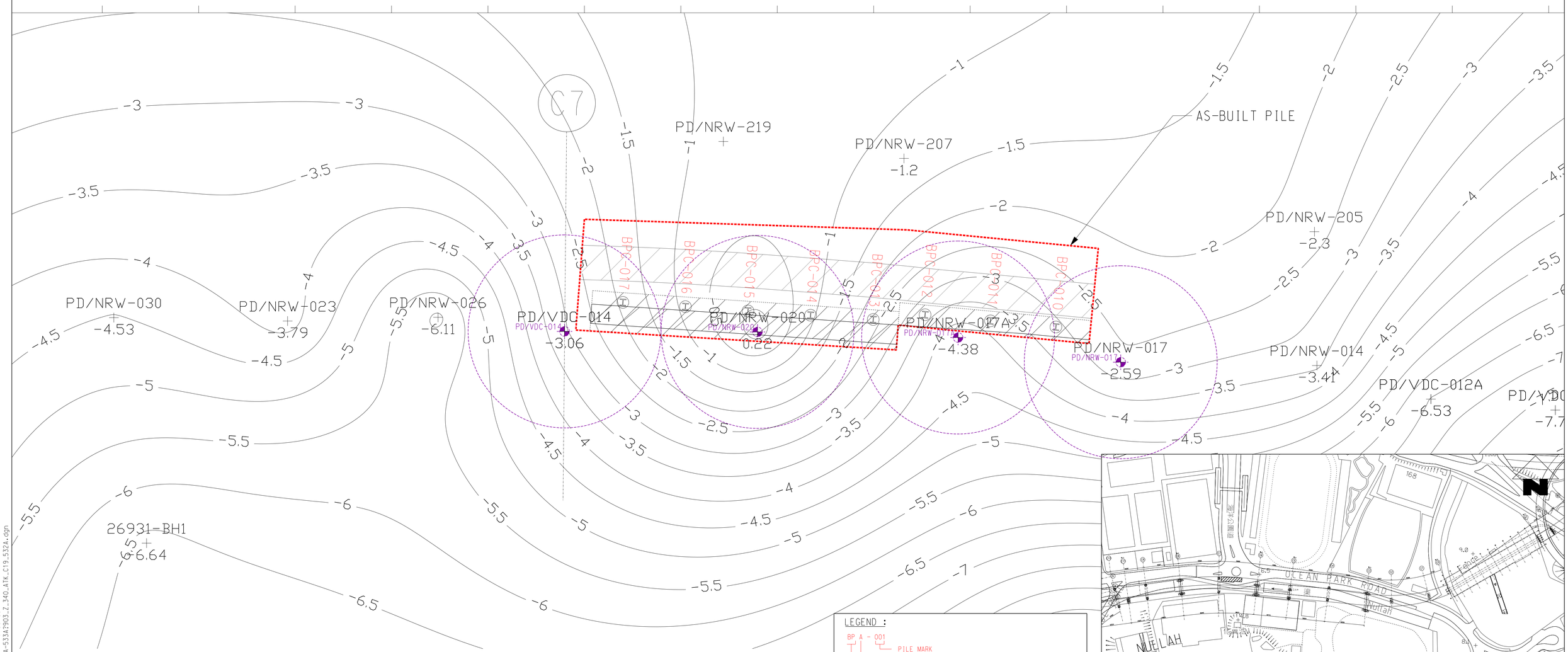
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
C5	BPC-010	16/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 3.50	- 6.30	2.50	-	- 3.84	- 6.84	2.70	7.53	-14	-13	20	164	GRADE III OR BETTER
	BPC-011	16/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 4.38	- 7.18	2.50	-	- 4.88	- 7.95	2.77	8.64	-19	57	61	316	
	BPC-012	16/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 4.38	- 7.18	2.50	-	- 4.43	- 7.56	2.83	8.25	11	33	35	894	
	BPC-013	16/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 4.38	- 7.18	2.50	-	- 4.58	- 7.49	2.61	8.18	-30	-38	48	596	
	BPC-014	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 1.00	- 3.80	2.50	-	- 1.09	- 4.07	2.68	4.76	1	-2	2	332	
	BPC-015	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 0.50	- 3.30	2.50	-	- 0.85	- 3.80	2.65	4.49	6	-43	43	171	
	BPC-016	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 1.00	- 3.80	2.50	-	- 1.18	- 4.16	2.68	4.85	13	1	13	400	
	BPC-017	17/02/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.62	- 3.06	- 5.86	2.50	-	- 3.11	- 6.01	2.60	6.63	-28	21	35	447	

* (c) = (a) - (b) - 300mm (FOR COMPRESSION PILES ONLY)



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.

0 1 2 3 4 5
METRES
1 : 100

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILLING HOLE

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	29 FEB 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_532A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C5)
SHEET 3 OF 3

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/532	A

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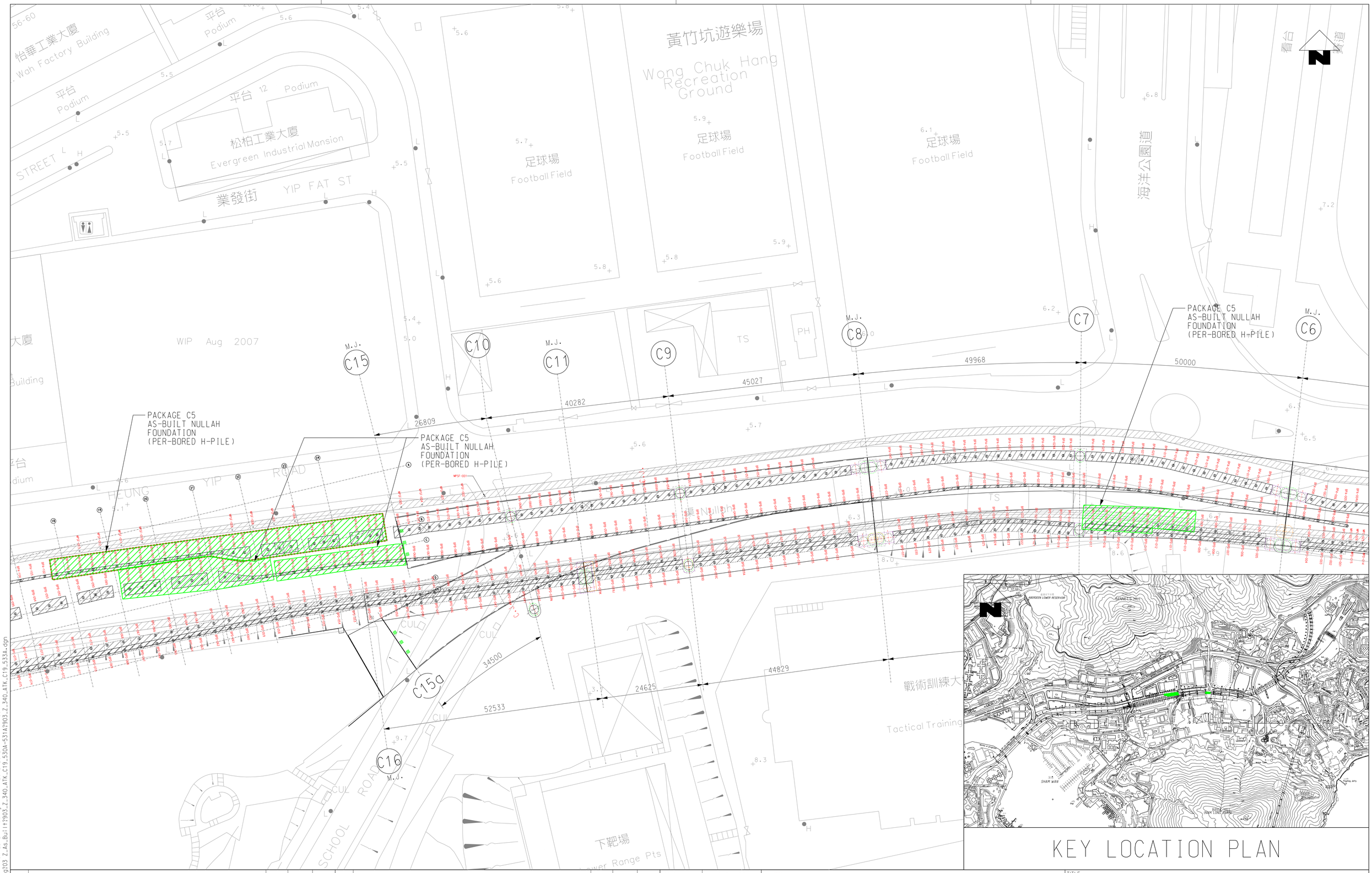

KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	29 FEB 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_533A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LOCATION PLAN (PACKAGE C5)

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/533	A

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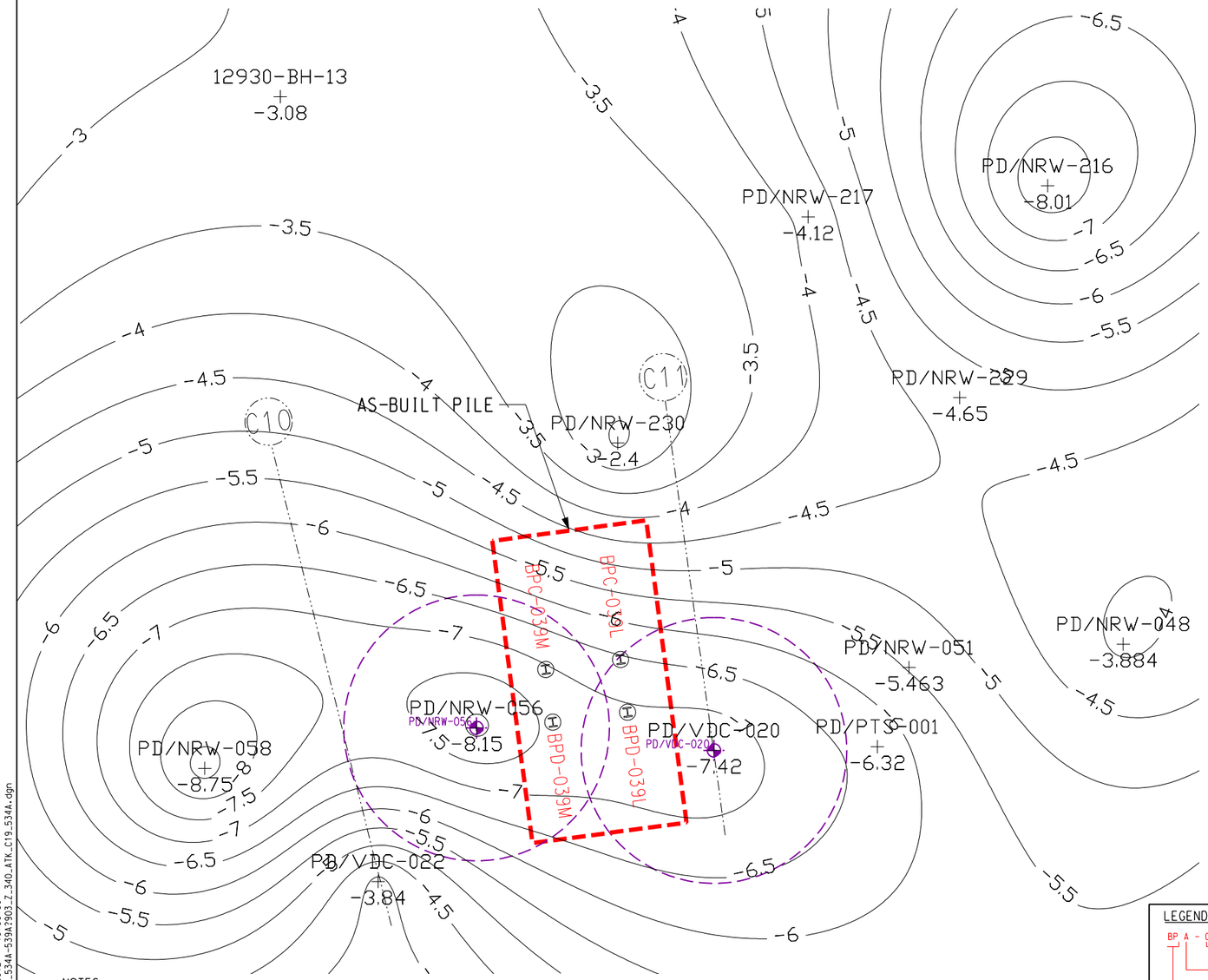
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
C7	BPC-039L	06/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.14	- 7.42	- 10.22	2.50	-	- 7.52	- 10.53	2.71	10.67	-46	-35	58	85	GRADE III OR BETTER
	BPC-039M	06/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.14	- 8.15	- 10.95	2.50	-	- 8.22	- 11.26	2.74	11.40	-11	18	21	224	
	BPD-039L	06/03/2012	0.61	305 x 305 x 223	TENSION	+ 0.68	- 7.50	- 10.00	2.00	9	- 7.58	- 10.25	2.17	10.93	4	-52	52	100	
	BPD-039M	06/03/2012	0.61	305 x 305 x 223	TENSION	+ 0.68	- 8.15	- 10.65	2.00	8	- 8.26	- 10.83	2.07	11.51	-3	-54	54	100	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm / FOR TENSION PILES; (c) = (a) - (b) - 500mm



NOTES:

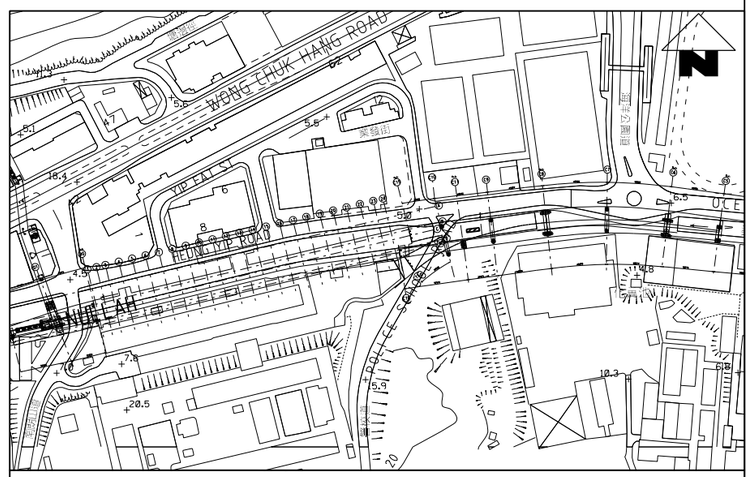
1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE TENTATIVE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE



KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	19 MAR 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_534A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C7)
SHEET 1 OF 5

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/534	A

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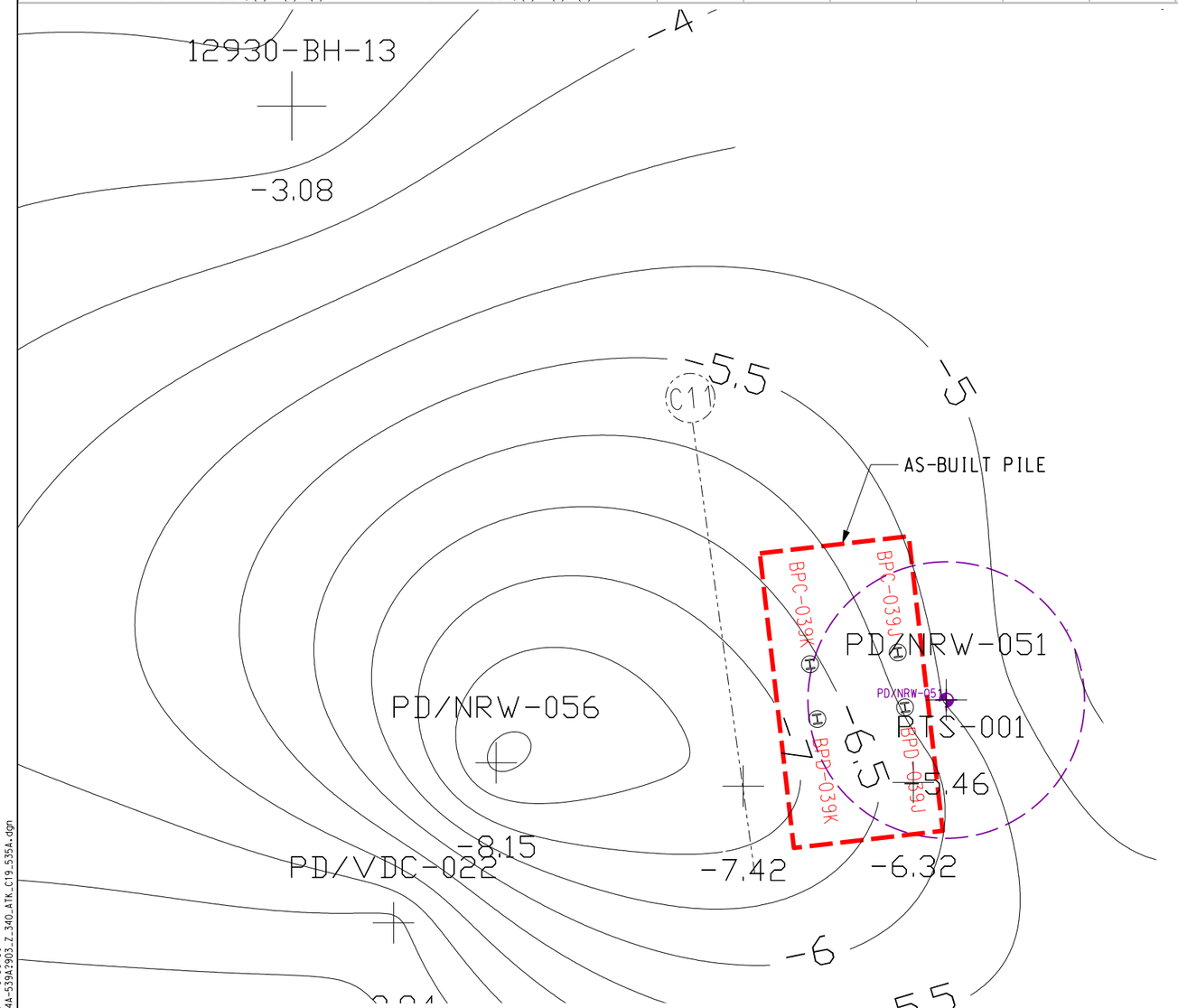
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
C7	BPC-039J	07/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.15	- 6.00	- 8.80	2.50	-	- 6.04	- 9.06	2.72	9.21	-63	-1	63	80	GRADE III OR BETTER
	BPC-039K	07/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.14	- 7.00	- 9.80	2.50	-	- 7.08	- 10.02	2.64	10.16	-9	-11	14	400	
	BPD-039J	07/03/2012	0.61	305 x 305 x 223	TENSION	+ 0.69	- 6.00	- 9.00	2.50	8	- 6.34	- 9.47	2.63	10.16	15	-9	18	298	
	BPD-039K	07/03/2012	0.61	305 x 305 x 223	TENSION	+ 0.68	- 7.00	- 9.50	2.00	8	- 7.09	- 9.70	2.11	10.38	6	-66	67	76	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm / FOR TENSION PILES; (c) = (a) - (b) - 500mm



NOTES:

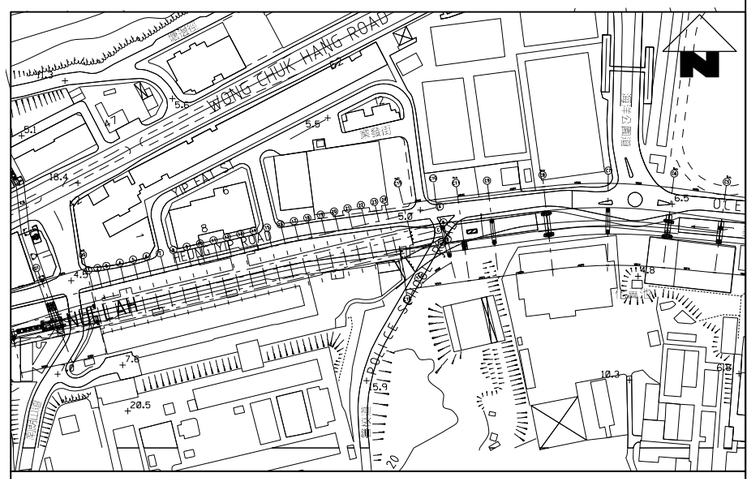
1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE TENTATIVE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE



KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	19 MAR 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_535A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C7)
SHEET 2 OF 5

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/535	A

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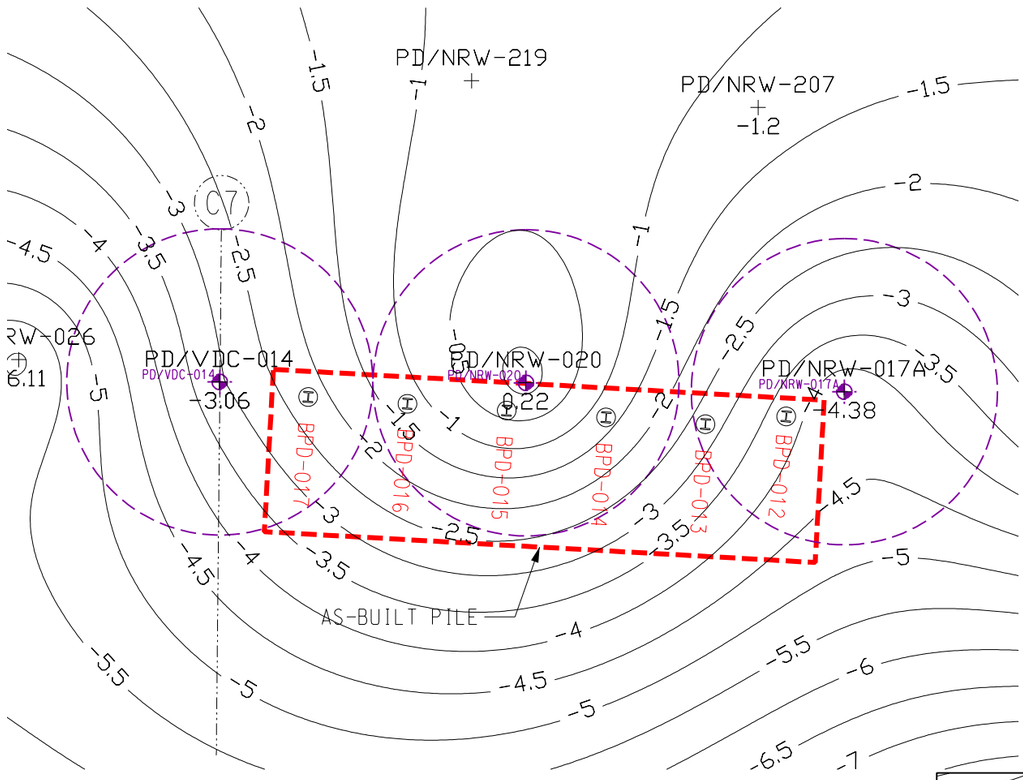
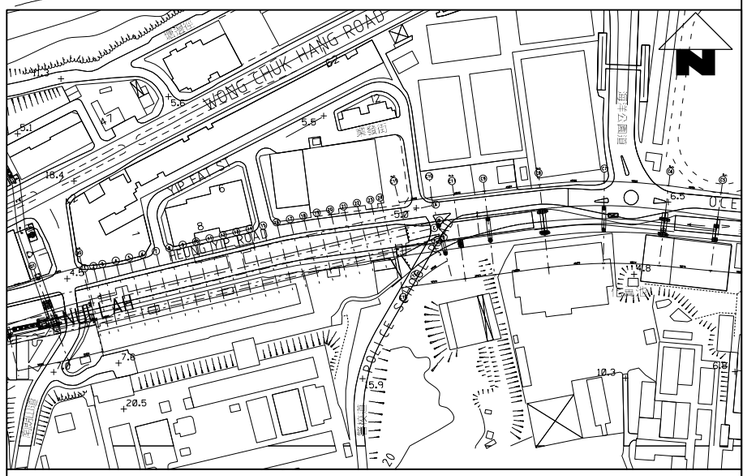
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
C7	BPD-012	05/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 4.38	- 7.38	2.50	8	- 4.42	- 7.78	2.86	9.01	*97*	*31*	*102*	140	GRADE III OR BETTER
	BPD-013	05/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 4.38	- 7.38	2.50	8	- 4.68	- 7.90	2.72	9.13	14	72	73	212	
	BPD-014	03/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 1.50	- 6.77	2.50	8	- 1.82	- 7.12	4.80	8.35	*-64*	*71*	*96*	76	
	BPD-015	03/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 0.50	- 6.77	2.50	8	- 0.97	- 7.13	5.66	8.36	-25	-3	25	2000	
	BPD-016	03/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 1.50	- 6.77	2.50	8	- 1.68	- 7.02	4.84	8.25	-2	42	42	234	
	BPD-017	03/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.17	- 3.06	- 6.83	2.50	8	- 3.68	- 7.09	2.91	8.26	-22	17	28	132	

Remark: FOR TENSION PILES; (c) = (a) - (b) - 500mm





KEY LOCATION PLAN

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE TENTATIVE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 1 2 3 4 5
METRES
1 : 100

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	19 MAR 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_536A.dgn

TITLE
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C7)
SHEET 3 OF 5

SCALE 1 : 100 (A1)
DRAWING NO. 903/Z/340/ATK/C19/536
REV. A

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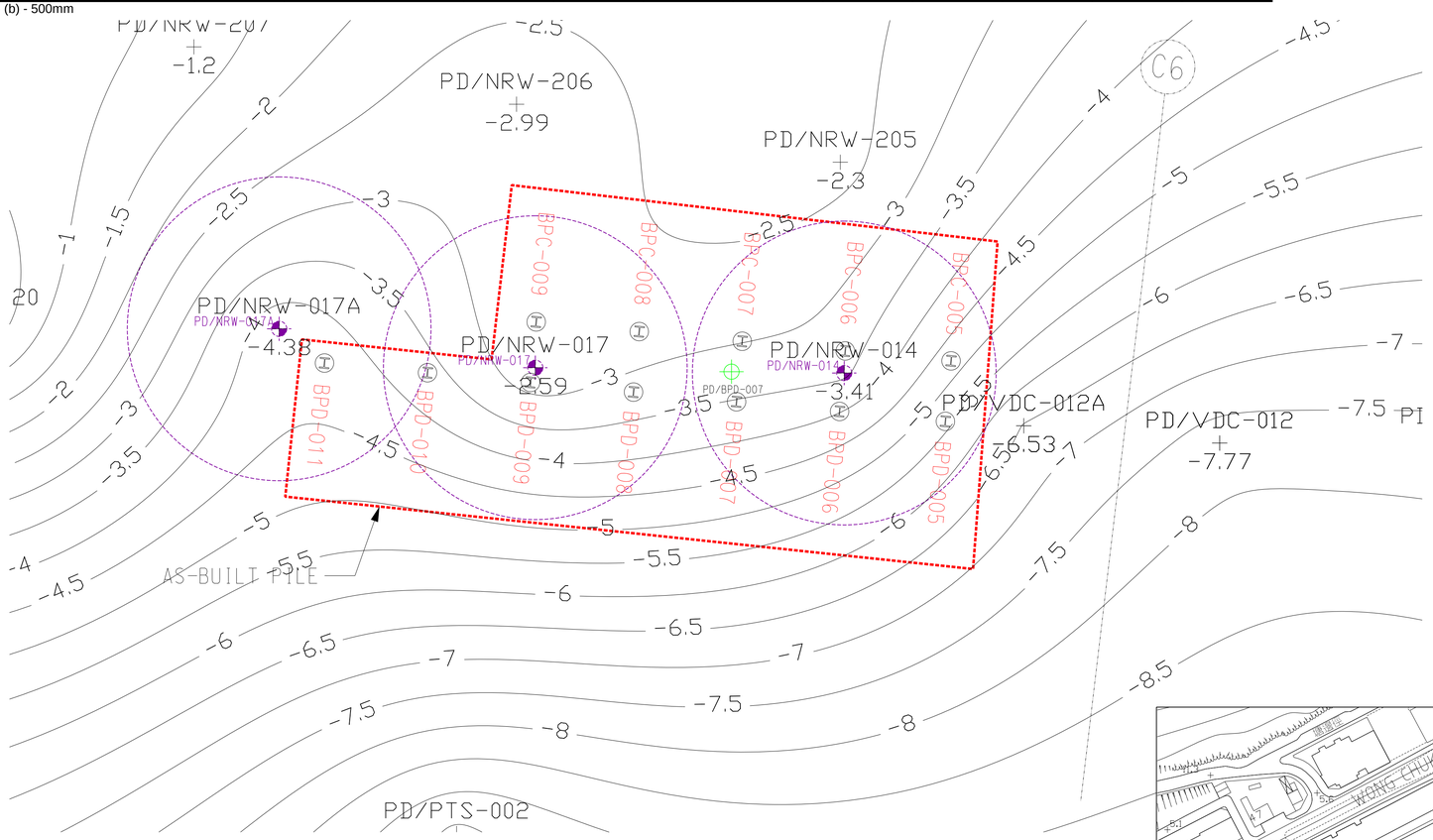
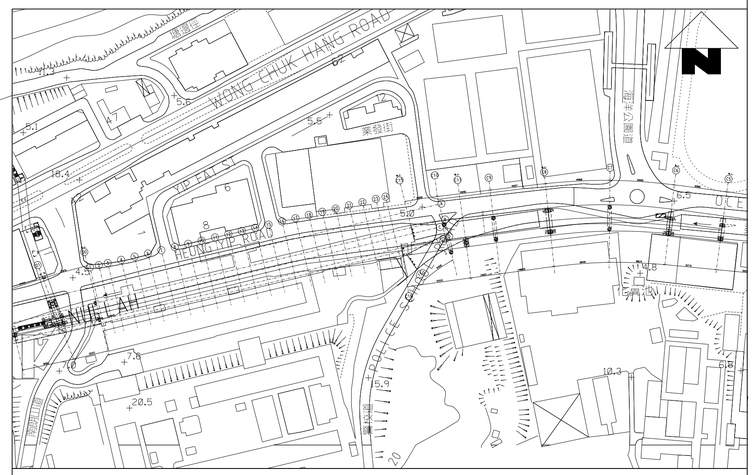
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
C7	BPC-005	10/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.70	- 5.00	- 7.80	2.50	-	- 5.35	- 8.37	2.72	9.07	-7	-49	50	1000	GRADE III OR BETTER
	BPC-006	10/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 3.50	- 7.30	3.50	-	- 3.78	- 7.71	3.63	8.40	-39	-18	43	277	
	BPC-007	13/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 3.50	- 6.30	2.50	-	- 3.73	- 6.73	2.70	7.42	-2	-55	55	181	
	BPC-008	13/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 3.00	- 6.80	3.50	-	- 3.30	- 7.33	3.73	8.02	-28	-12	30	2000	
	BPC-009	13/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.69	- 3.00	- 5.80	2.50	-	- 3.22	- 6.19	2.67	6.88	-28	-2	28	707	
	BPD-005	10/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.24	- 6.00	- 9.00	2.50	8	- 6.22	- 9.35	2.63	10.59	-6	-28	29	471	
	BPD-006	10/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 4.50	- 8.50	3.50	8	- 4.77	- 8.94	3.67	10.17	-17	1	17	141	
	BPD-007	13/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 4.00	- 7.00	2.50	8	- 4.04	- 7.19	2.65	8.42	15	4	16	186	
	BPD-008	13/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 3.50	- 7.50	3.50	8	- 3.79	- 8.04	3.75	9.27	-12	10	16	894	
	BPD-009	13/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 3.00	- 6.77	2.50	8	- 3.28	- 6.90	3.12	8.13	-30	24	38	182	
	BPD-010	05/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 4.00	- 7.00	2.50	8	- 4.69	- 7.98	2.79	9.21	31	-5	31	1000	
	BPD-011	05/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.23	- 4.50	- 7.50	2.50	8	- 4.77	- 8.09	2.82	9.32	-28	10	30	119	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm / FOR TENSION PILES; (c) = (a) - (b) - 500mm





KEY LOCATION PLAN

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE TENTATIVE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 1 2 3 4 5
METRES
1 : 100

LEGEND :

- BP A - 001
  - PILE MARK
  - ROW (A)
  - BP - DIA. 610mm PRE-BORED SOCKET H-PILES
- DIA. 610mm PRE-BORED SOCKETED H-PILE
- PRE- DRILLING HOLE
- PRE- DRILLING HOLE

REV	DESCRIPTION	BY	DATE	APPROVED
REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	19 MAR 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_537A.dgn

TITLE
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C7)
SHEET 4 OF 5

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/537	A

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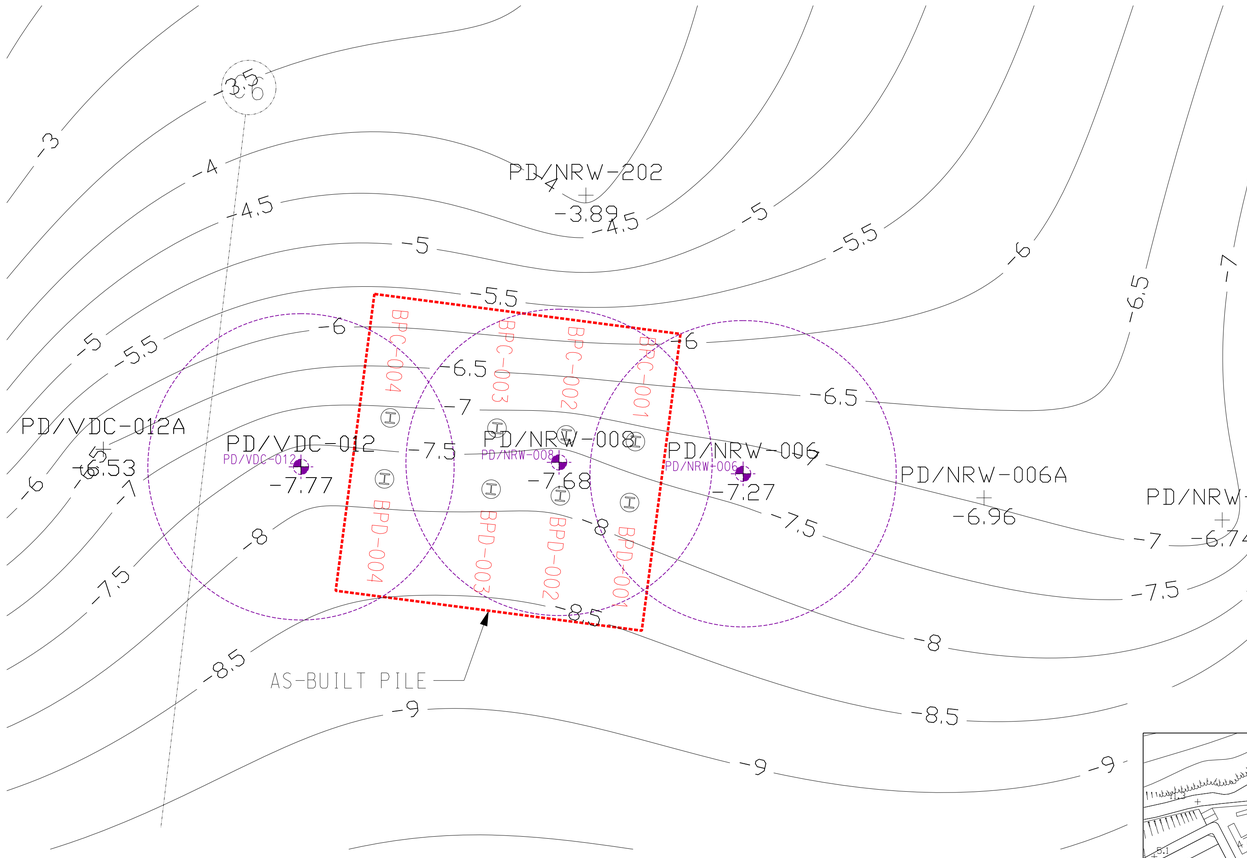
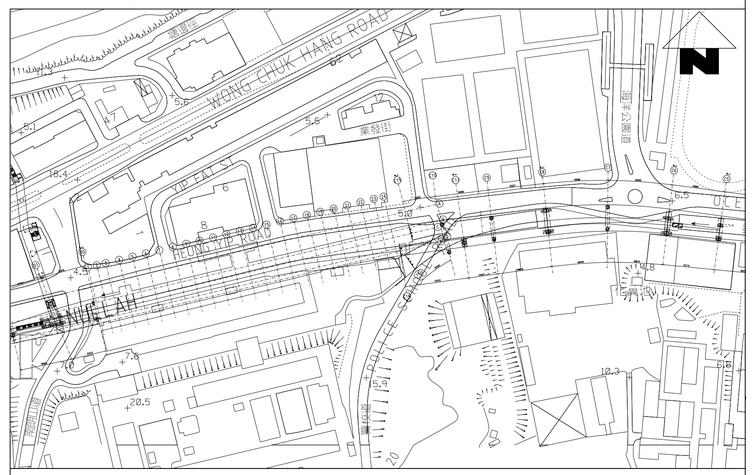
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)					
C7	BPC-001	09/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.84	- 7.50	- 10.30	2.50	-	- 7.61	- 10.55	2.64	11.39	17	29	33	164	GRADE III OR BETTER
	BPC-002	09/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.80	- 7.68	- 10.48	2.50	-	- 7.81	- 10.78	2.67	11.58	-17	-12	21	97	
	BPC-003	12/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.80	- 7.68	- 10.48	2.50	-	- 7.80	- 11.02	2.92	11.82	-34	-6	34	298	
	BPC-004	12/03/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.74	- 7.77	- 10.57	2.50	-	- 8.27	- 11.15	2.58	11.89	-28	47	55	894	
	BPD-001	09/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.38	- 8.00	- 10.50	2.00	9	- 8.06	- 11.26	2.70	12.64	11	-11	15	485	
	BPD-002	09/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.34	- 8.00	- 10.50	2.00	8	- 8.18	- 10.92	2.24	12.26	-44	-1	44	116	
	BPD-003	12/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.34	- 8.00	- 10.50	2.00	8	- 8.12	- 11.32	2.70	12.66	-42	-20	46	275	
	BPD-004	12/03/2012	0.61	305 x 305 x 223	TENSION	+ 1.29	- 8.00	- 11.00	2.50	9	- 8.23	- 11.34	2.61	12.63	54	35	64	277	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm / FOR TENSION PILES; (c) = (a) - (b) - 500mm





KEY LOCATION PLAN

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE TENTATIVE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 1 2 3 4 5
METRES
1 : 100

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	19 MAR 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_538A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C7)
SHEET 5 OF 5

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/538	A

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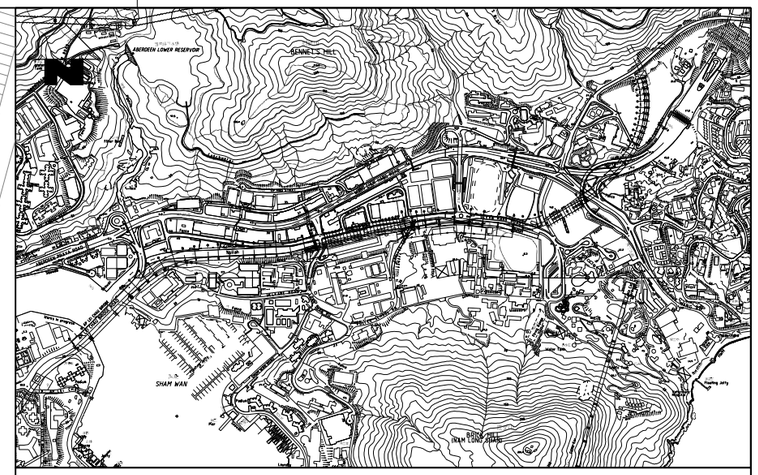

KEY LOCATION PLAN

業發街 YIP FAT ST

Recreation Ground

足球場 Football Field

足球場 Football Field

足球場 Football Field

Aug 2007

ROAD

M.J. C15 C10 M.J. C11 C9 TS PH M.J. C8 C7

22 23 24

A B C D E

Nullah

CULD

C15a

C16 M.J.

SCHOOL ROAD

PACKAGE C7
AS-BUILT NULLAH FOUNDATION
(PER-BORED H-PILE)

戰術訓練大樓 Tactical Training Complex

下靶場 Lower Range Pts

M.J. C6 M.J. C5

籃球場 Basketball Court

網球場

化糞池 Septic Tank

戰術訓練場 Tactic Training Complex

FP

PACKAGE C7
AS-BUILT NULLAH FOUNDATION
(PER-BORED H-PILE)

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REV	DESCRIPTION	BY	DATE	APPROVED

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	17JAN12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_539A.dgn

TITLE

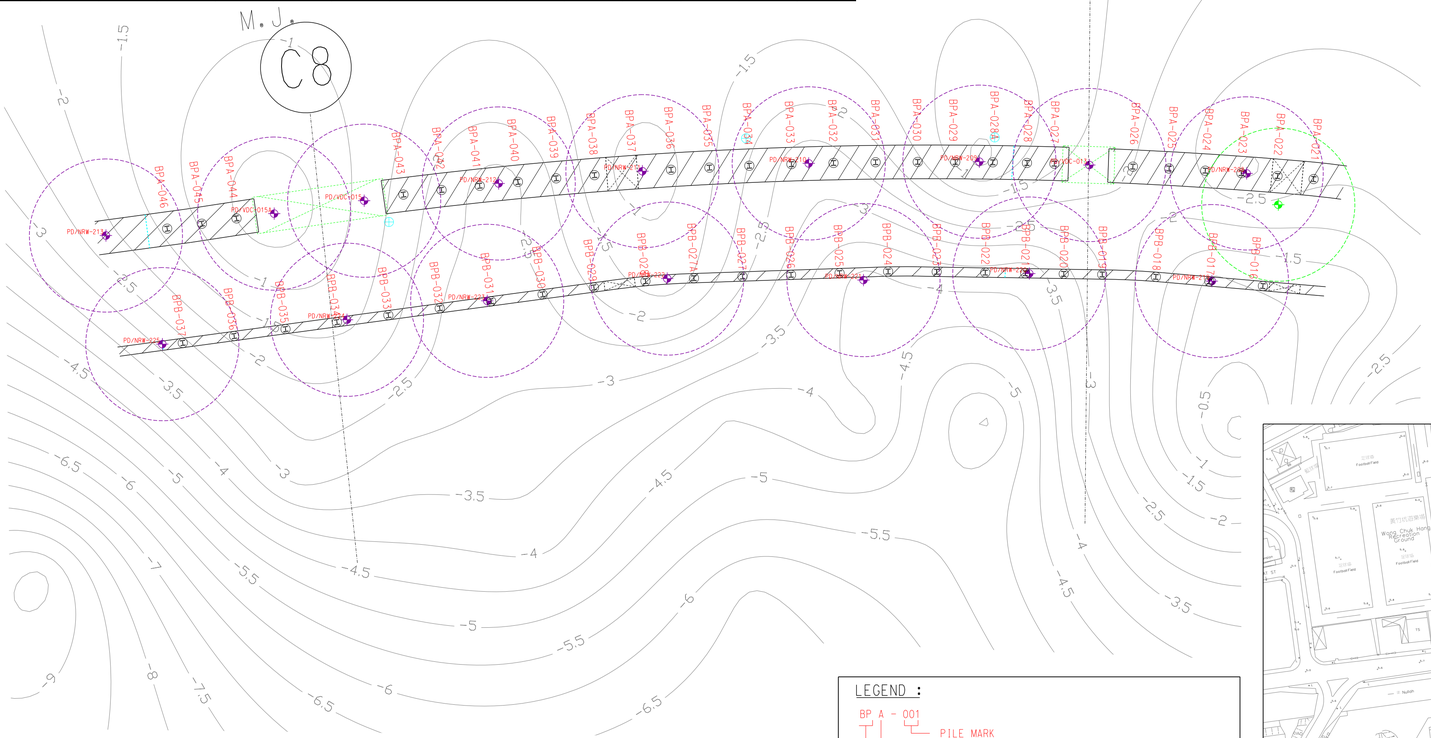
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PER-BORED H-PILES)
LOCATION PLAN (PACKAGE C7)

SCALE	DRAWING NO.	REV.
1 : 400 (A1)	903/Z/340/ATK/C19/539	A

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C8	BPA-021	28/11/2012	0.61	305 x 305 x 223	Compression	+ 0.607	- 3.10	- 6.40	3.00	-	- 3.36	- 6.76	3.10	7.37	835668.863	812192.990	17	-5	18	333	GRADE III OR BETTER
	BPA-022	28/11/2012	0.61	305 x 305 x 223	Compression	+ 0.596	- 3.10	- 6.40	3.00	-	- 3.52	- 6.93	3.11	7.53	835666.476	812193.188	-13	-11	17	1200	
	BPA-023	28/11/2012	0.61	305 x 305 x 223	Compression	+ 1.781	- 3.10	- 6.40	3.00	-	- 3.50	- 6.89	3.09	8.67	835664.137	812193.402	5	22	22	190	
	BPA-024	28/11/2012	0.61	305 x 305 x 223	Compression	+ 1.788	- 3.10	- 6.40	3.00	-	- 2.80	- 6.81	3.71	8.60	835661.773	812193.607	-2	65	65	379	
	BPA-025	06/12/2012	0.61	305 x 305 x 223	Compression	+ 1.785	- 3.10	- 6.40	3.00	-	- 3.10	- 6.58	3.18	8.37	835659.417	812193.723	6	39	40	*223*	
	BPA-026	27/11/2012	0.61	305 x 305 x 223	Compression	+ 1.761	- 2.50	- 5.80	3.00	-	- 3.33	- 6.65	3.02	8.41	835657.000	812193.836	-47	28	55	14142136	
	BPA-027	27/11/2012	0.61	305 x 305 x 223	Compression	+ 1.708	- 1.73	- 5.03	3.00	-	- 2.43	- 5.75	3.02	7.46	835651.901	812194.003	-15	1	15	400	
	BPA-028	27/11/2012	0.61	305 x 305 x 223	Compression	+ 1.699	- 1.50	- 5.30	3.50	-	- 2.14	- 5.97	3.53	7.67	835650.145	812194.090	16	43	46	283	
	BPA-028a	19/11/2012	0.61	305 x 305 x 223	Compression	+ 1.702	- 1.00	- 4.80	3.50	-	- 1.14	- 5.53	4.09	7.23	*835647.880*	*812194.069*	*16*	*-20*	*26*	*250*	
	BPA-029	19/11/2012	0.61	305 x 305 x 223	Compression	+ 1.700	- 1.00	- 4.80	3.50	-	- 2.01	- 5.98	3.67	7.68	*835645.462*	*812194.117*	*17*	*3*	*18*	*400*	
	BPA-030	27/11/2012	0.61	305 x 305 x 223	Compression	+ 1.694	- 2.00	- 5.30	3.00	-	- 2.66	- 6.14	3.18	7.83	*835642.974*	*812194.045*	*-20*	*-72*	*75*	*14142136*	
	BPA-031	19/11/2012	0.61	305 x 305 x 223	Compression	+ 1.684	- 2.91	- 6.21	3.00	-	- 3.00	- 6.44	3.14	8.12	*835640.217*	*812194.092*	*-26*	*-3*	*26*	*14142136*	
	BPA-032	19/11/2012	0.61	305 x 305 x 223	Compression	+ 1.678	- 3.00	- 6.30	3.00	-	- 3.05	- 6.35	3.00	8.03	*835637.464*	*812194.032*	*-30*	*-13*	*33*	*300*	
	BPA-033	19/11/2012	0.61	305 x 305 x 223	Compression	+ 1.664	- 3.00	- 6.30	3.00	-	- 3.07	- 6.48	3.11	8.14	*835634.750*	*812193.985*	*4*	*16*	*17*	*250*	
	BPA-034	17/11/2012	0.61	305 x 305 x 223	Compression	+ 1.662	- 2.91	- 6.21	3.00	-	- 2.93	- 6.36	3.13	8.02	*835632.006*	*812193.889*	*9*	*23*	*24*	*14142136*	
	BPA-035	17/11/2012	0.61	305 x 305 x 223	Compression	+ 1.653	- 1.50	- 4.80	3.00	-	- 1.52	- 4.96	3.14	6.61	*835629.457*	*812193.626*	*60*	***-121***	***135***	*100*	
	BPA-036	17/11/2012	0.61	305 x 305 x 223	Compression	+ 1.645	- 1.00	- 4.30	3.00	-	- 1.69	- 5.21	3.22	6.86	*835626.876*	*812193.607*	*-17*	*6*	*18*	*177*	
	BPA-037	17/11/2012	0.61	305 x 305 x 223	Compression	+ 0.439	- 1.00	- 4.30	3.00	-	- 1.41	- 5.09	3.38	5.53	*835624.366*	*812193.439*	*-19*	*2*	*19*	*400*	
	BPA-038	17/11/2012	0.61	305 x 305 x 223	Compression	+ 0.437	- 1.50	- 4.80	3.00	-	- 2.18	- 5.78	3.30	6.22	*835621.828*	*812193.263*	*-54*	*17*	*57*	*400*	
	BPA-039	16/11/2012	0.61	305 x 305 x 223	Compression	+ 1.630	- 2.80	- 6.60	3.50	-	- 2.91	- 6.75	3.54	8.38	*835619.341*	*812193.020*	*-45*	*-19*	*49*	*141*	
	BPA-040	16/11/2012	0.61	305 x 305 x 223	Compression	+ 1.613	- 3.00	- 6.80	3.50	-	- 3.00	- 6.90	3.60	8.51	*835616.872*	*812192.825*	*-13*	*16*	*21*	*177*	
	BPA-041	16/11/2012	0.61	305 x 305 x 223	Compression	+ 1.610	- 3.00	- 6.30	3.00	-	- 3.18	- 6.52	3.04	8.13	*835614.406*	*812192.576*	*16*	*16*	*23*	*150*	
	BPA-042	16/11/2012	0.61	305 x 305 x 223	Compression	+ 1.611	- 2.80	- 6.10	3.00	-	- 3.51	- 6.90	3.09	8.51	*835611.865*	*812192.280*	*-34*	*2*	*34*	*375*	
	BPA-043	22/11/2012	0.61	305 x 305 x 223	Compression	+ 1.609	- 2.00	- 5.30	3.00	-	- 2.58	- 6.08	3.20	7.69	835609.372	812191.995	-35	16	39	1000	
	BPA-044	22/11/2012	0.61	305 x 305 x 223	Compression	+ 1.582	- 1.00	- 4.30	3.00	-	- 1.33	- 5.01	3.38	6.59	835598.490	812190.463	-15	38	41	141	
	BPA-045	22/11/2012	0.61	305 x 305 x 223	Compression	+ 1.577	- 1.00	- 4.30	3.00	-	- 1.19	- 4.81	3.32	6.39	835596.909	812190.211	-27	29	39	166	
	BPA-046	22/11/2012	0.61	305 x 305 x 223	Compression	+ 1.574	- 2.15	- 5.95	3.50	-	- 2.67	- 6.78	3.81	8.35	835594.047	812189.787	67	19	70	894	
	BPB-016	29/11/2012	0.61	305 x 305 x 223	Compression	+ 0.599	- 1.00	- 3.80	2.50	-	- 1.63	- 4.74	2.81	5.34	835665.522	812185.934	-6	***-79***	***79***	190	
	BPB-017	29/11/2012	0.61	305 x 305 x 223	Compression	+ 1.790	- 1.00	- 3.80	2.50	-	- 1.69	- 4.66	2.67	6.45	835662.040	812186.287	2	-26	26	134	
	BPB-018	29/11/2012	0.61	305 x 305 x 223	Compression	+ 1.792	- 2.00	- 4.80	2.50	-	- 2.66	- 5.68	2.72	7.47	835658.508	812186.558	-33	-57	66	268	
	BPB-019	20/11/2012	0.61	305 x 305 x 223	Compression	+ 1.765	- 3.79	- 6.59	2.50	-	- 4.52	- 7.60	2.78	9.37	835655.053	812186.747	12	-16	20	316	
	BPB-020	20/11/2012	0.61	305 x 305 x 223	Compression	+ 1.748	- 3.79	- 6.59	2.50	-	- 3.79	- 6.68	2.59	8.43	835652.544	812186.786	16	-19	25	275	
	BPB-021	20/11/2012	0.61	305 x 305 x 223	Compression	+ 1.722	- 4.00	- 6.80	2.50	-	- 4.59	- 7.51	2.62	9.23	835650.028	812186.825	12	-22	24	1414	
	BPB-022	20/11/2012	0.61	305 x 305 x 223	Compression	+ 1.716	- 4.00	- 6.80	2.50	-	- 4.35	- 7.31	2.66	9.03	835647.357	812186.905	-59	14	60	894	
	BPB-023	30/11/2012	0.61	305 x 305 x 223	Compression	+ 1.712	- 4.17	- 7.47	3.00	-	- 4.40	- 7.92	3.22	9.63	835644.274	812186.996	41	55	68	166	
	BPB-024	21/11/2012	0.61	305 x 305 x 223	Compression	+ 1.709	- 4.17	- 7.47	3.00	-	- 4.66	- 8.09	3.13	9.80	835641.087	812186.941	26	-18	32	371	
	BPB-025	21/11/2012	0.61	305 x 305 x 223	Compression	+ 1.697	- 4.17	- 6.97	2.50	-	- 4.58	- 7.75	2.87	9.45	835637.860	812186.865	-30	12	32	500	
	BPB-026	21/11/2012	0.61	305 x 305 x 223	Compression	+ 1.692	- 4.17	- 6.97	2.50	-	- 4.83	- 7.92	2.79	9.61	835634.709	812186.733	-12	-10	16	196	
	BPB-027	21/11/2012	0.61	305 x 305 x 223	Compression	+ 1.676	- 2.50	- 5.30	2.50	-	- 3.08	- 6.31	2.93	7.99	835631.485	812186.540	**-69**	-93	**116**	500	
	BPB-027A	21/11/2012	0.61	305 x 305 x 223	Compression	+ 1.665	- 2.00	- 4.80	2.50	-	- 2.72	- 5.76	2.74	7.43	835628.482	812186.497	**100**	-31	**105**	243	
	BPB-028	26/11/2012	0.61	305 x 305 x 223	Compression	+ 0.461	- 1.50	- 4.30	2.50	-	- 2.35	- 5.35	2.70	5.81	835625.233	812186.301	17	-32	36	236	
	BPB-029	26/11/2012	0.61	305 x 305 x 223	Compression	+ 0.457	- 2.00	- 4.80	2.50	-	- 2.32	- 5.22	2.60	5.68	835621.842	812185.886	-14	-34	37	186	
	BPB-030	26/11/2012	0.61	305 x 305 x 223	Compression	+ 1.634	- 3.00	- 5.80	2.50	-	- 3.45	- 6.51	2.76	8.14	835618.480	812185.478	-14	11	18	110	
	BPB-031	26/11/2012	0.61	305 x 305 x 223	Compression	+ 1.628	- 3.00	- 5.80	2.50	-	- 3.15	- 6.15	2.70	7.78	835615.053	812184.995	**-87**	-9	**88**	500	
	BPB-032	23/11/2012	0.61	305 x 305 x 223	Compression	+ 1.626	- 3.00	- 5.80	2.50	-	- 3.87	- 6.70	2.53	8.33	835611.759	812184.563	-23	5	23	500	
	BPB-033	23/11/2012	0.61	305 x 305 x 223	Compression	+ 1.615	- 2.00	- 5.30	3.00	-	- 2.14	- 5.57	3.13	7.19	835608.471	812184.077	41	-37	55	14142136	
	BPB-034	23/11/2012	0.61	305 x 305 x 223	Compression	+ 1.598	- 1.50	- 4.80	3.00	-	- 2.29	- 5.83	3.24	7.43	835605.076	812183.622	3	-32	32	1414	
	BPB-035	23/11/2012	0.61	305 x 305 x 223	Compression	+ 1.596	- 1.50	- 4.80	3.00	-	- 1.80	- 5.24	3.14	6.84	835601.690	812183.141	-29	-56	63	166	
	BPB-036	23/11/2012	0.61	305 x 305 x 223	Compression	+ 1.588	- 1.00	- 3.80	2.50	-	- 1.39	- 4.21	2.52	5.80	835598.373	812182.695	10	-54	55	100	
	BPB-037	22/11/2012	0.61	305 x 305 x 223	Compression	+ 1.581	- 0.50	- 3.30	2.50	-	- 0.85	- 3.89	2.74	5.47	835595.013	812182.321	18	25	30	555	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE PROPOSED ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 2 4 6 8 10
METRES
1 : 200

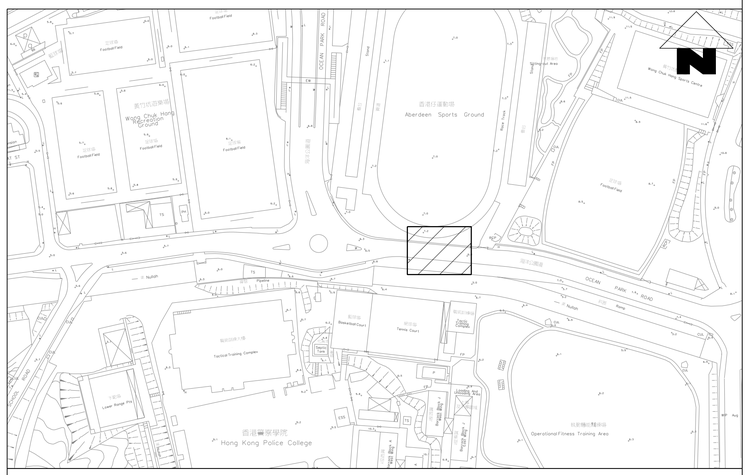
LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILL HOLE



KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	19 MAR 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_T_LCA_XXXX2D.dgn

TITLE
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C8)
SHEET 1 OF 3

SCALE	DRAWING NO.	REV.
1 : 200 (A1)	903/Z/340/ATK/C19/542	A

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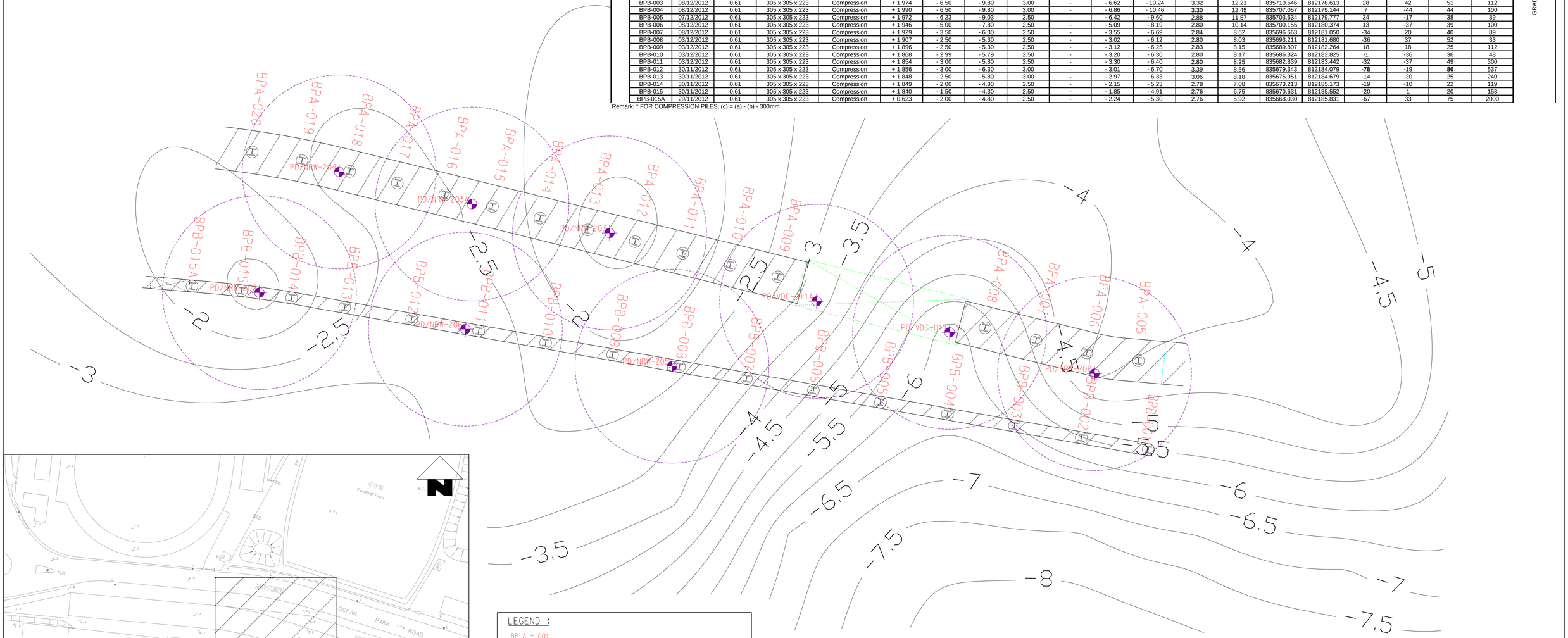
FILENAME: W:\LA\7903_T_LCA_XXXX2D.dgn

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C8	BPA-005	15/12/2012	0.61	305 x 305 x 223	Compression	+ 2.168	- 4.50	- 8.30	3.50	-	- 4.51	- 8.55	3.74	10.72	835716.906	812181.943	-5	-3	6	424	GRADE III OR BETTER
	BPA-006	18/12/2012	0.61	305 x 305 x 223	Compression	+ 2.145	- 4.50	- 8.30	3.50	-	- 4.77	- 8.82	3.75	10.97	835714.269	812182.289	36	-52	63	300	
	BPA-007	15/12/2012	0.61	305 x 305 x 223	Compression	+ 2.122	- 5.00	- 8.30	3.00	-	- 5.00	- 8.58	3.28	10.70	835711.654	812182.945	41	-41	58	268	
	BPA-008	17/12/2012	0.61	305 x 305 x 223	Compression	+ 2.102	- 6.23	- 9.53	3.00	-	- 6.55	- 10.07	3.22	12.17	835709.011	812183.613	16	-22	28	212	
	BPA-009	15/12/2012	0.61	305 x 305 x 223	Compression	+ 2.024	- 3.21	- 6.51	3.00	-	- 3.28	- 6.76	3.18	8.78	835698.359	812186.323	34	61	70	300	
	BPA-010	15/12/2012	0.61	305 x 305 x 223	Compression	+ 2.010	- 3.21	- 6.51	3.00	-	- 3.34	- 6.78	3.14	8.79	835695.826	812186.918	-40	33	52	600	
	BPA-011	06/12/2012	0.61	305 x 305 x 223	Compression	+ 1.997	- 2.00	- 5.30	3.00	-	- 2.39	- 5.94	3.25	7.94	835693.429	812187.512	16	37	41	134	
	BPA-012	06/12/2012	0.61	305 x 305 x 223	Compression	+ 1.985	- 1.50	- 4.80	3.00	-	- 1.56	- 5.08	3.22	7.07	835690.958	812188.150	-9	66	67	190	
	BPA-013	05/12/2012	0.61	305 x 305 x 223	Compression	+ 1.962	- 1.50	- 4.80	3.00	-	- 1.93	- 5.53	3.30	7.49	835688.510	812188.716	4	30	31	268	
	BPA-014	05/12/2012	0.61	305 x 305 x 223	Compression	+ 1.934	- 2.00	- 5.80	3.50	-	- 2.83	- 6.87	3.74	8.80	*835686.046*	*812189.266*	*8*	*-24*	*26*	300	
	BPA-015	05/12/2012	0.61	305 x 305 x 223	Compression	+ 1.924	- 2.50	- 6.30	3.50	-	- 2.68	- 6.72	3.74	8.64	*835683.634*	*812189.914*	*37*	*28*	*47*	*14142136*	
	BPA-016	05/12/2012	0.61	305 x 305 x 223	Compression	+ 1.917	- 3.00	- 6.80	3.50	-	- 3.26	- 7.31	3.75	9.23	*835681.127*	*812190.483*	*-6*	*-19*	*20*	*300*	
	BPA-017	04/12/2012	0.61	305 x 305 x 223	Compression	+ 1.894	- 3.00	- 6.80	3.50	-	- 3.24	- 7.27	3.73	9.16	*835678.705*	*812191.069*	*28*	*-29*	*41*	*250*	
	BPA-018	04/12/2012	0.61	305 x 305 x 223	Compression	+ 1.874	- 3.00	- 6.80	3.50	-	- 3.30	- 7.38	3.78	9.25	*835676.240*	*812191.688*	*14*	*-18*	*22*	*250*	
	BPA-019	04/12/2012	0.61	305 x 305 x 223	Compression	+ 1.858	- 2.76	- 6.56	3.50	-	- 3.56	- 7.76	3.90	9.62	*835673.772*	*812192.244*	*9*	*-17*	*20*	*14142136*	
	BPA-020	28/11/2012	0.61	305 x 305 x 223	Compression	+ 1.832	- 2.76	- 6.06	3.00	-	- 3.26	- 6.61	3.05	8.44	*835671.209*	*812192.700*	*15*	*-6*	*16*	*400*	
	BPB-001	07/12/2012	0.61	305 x 305 x 223	Compression	+ 2.000	- 6.00	- 8.80	2.50	-	- 6.08	- 9.14	2.76	11.14	835717.370	812177.284	-37	**84**	268		
	BPB-002	07/12/2012	0.61	305 x 305 x 223	Compression	+ 1.991	- 6.00	- 9.30	3.00	-	- 6.12	- 9.71	3.29	11.70	835713.981	812177.921	23	-39	46	134	
	BPB-003	08/12/2012	0.61	305 x 305 x 223	Compression	+ 1.974	- 6.50	- 9.80	3.00	-	- 6.62	- 10.24	3.32	12.21	835710.546	812178.613	28	42	51	112	
	BPB-004	08/12/2012	0.61	305 x 305 x 223	Compression	+ 1.990	- 6.50	- 9.80	3.00	-	- 6.86	- 10.46	3.30	12.45	835707.057	812179.144	7	-44	44	100	
	BPB-005	07/12/2012	0.61	305 x 305 x 223	Compression	+ 1.972	- 6.23	- 9.03	2.50	-	- 6.42	- 9.60	2.88	11.57	835703.634	812179.777	34	-17	38	89	
	BPB-006	08/12/2012	0.61	305 x 305 x 223	Compression	+ 1.946	- 5.00	- 7.80	2.50	-	- 5.09	- 8.19	2.80	10.14	835700.155	812180.374	13	-37	39	100	
	BPB-007	08/12/2012	0.61	305 x 305 x 223	Compression	+ 1.929	- 3.50	- 6.30	2.50	-	- 3.55	- 6.69	2.84	8.62	835696.663	812181.050	-34	20	40	89	
	BPB-008	03/12/2012	0.61	305 x 305 x 223	Compression	+ 1.907	- 2.50	- 5.30	2.50	-	- 3.02	- 6.12	2.80	8.03	835693.211	812181.680	-36	37	52	33	
	BPB-009	03/12/2012	0.61	305 x 305 x 223	Compression	+ 1.896	- 2.50	- 5.30	2.50	-	- 3.12	- 6.25	2.83	8.15	835689.807	812182.264	18	18	25	112	
	BPB-010	03/12/2012	0.61	305 x 305 x 223	Compression	+ 1.868	- 2.99	- 5.79	2.50	-	- 3.20	- 6.30	2.80	8.17	835686.324	812182.825	-1	-36	36	48	
	BPB-011	03/12/2012	0.61	305 x 305 x 223	Compression	+ 1.854	- 3.00	- 5.80	2.50	-	- 3.30	- 6.40	2.80	8.25	835682.839	812183.442	-32	-37	49	300	
	BPB-012	30/11/2012	0.61	305 x 305 x 223	Compression	+ 1.856	- 3.00	- 6.30	3.00	-	- 3.01	- 6.70	3.39	8.56	835679.343	812184.079	**-78**	-19	**80**	537	
	BPB-013	30/11/2012	0.61	305 x 305 x 223	Compression	+ 1.848	- 2.50	- 5.80	3.00	-	- 2.97	- 6.33	3.06	8.18	835675.951	812184.679	-14	-20	25	240	
	BPB-014	30/11/2012	0.61	305 x 305 x 223	Compression	+ 1.849	- 2.00	- 4.80	2.50	-	- 2.15	- 5.23	2.78	7.08	835673.213	812185.173	-19	-10	22	119	
	BPB-015	30/11/2012	0.61	305 x 305 x 223	Compression	+ 1.840	- 1.50	- 4.30	2.50	-	- 1.85	- 4.91	2.76	6.75	835670.631	812185.552	-20	1	20	153	
	BPB-015A	29/11/2012	0.61	305 x 305 x 223	Compression	+ 0.623	- 2.00	- 4.80	2.50	-	- 2.24	- 5.30	2.76	5.92	835668.030	812185.831	-67	33	75	2000	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm



KEY LOCATION PLAN

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

0 1 2 3 4 5
METRES
1 : 100

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
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4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE PROPOSED ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	19 MAR 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. BPA_004.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C8)
SHEET 2 OF 3

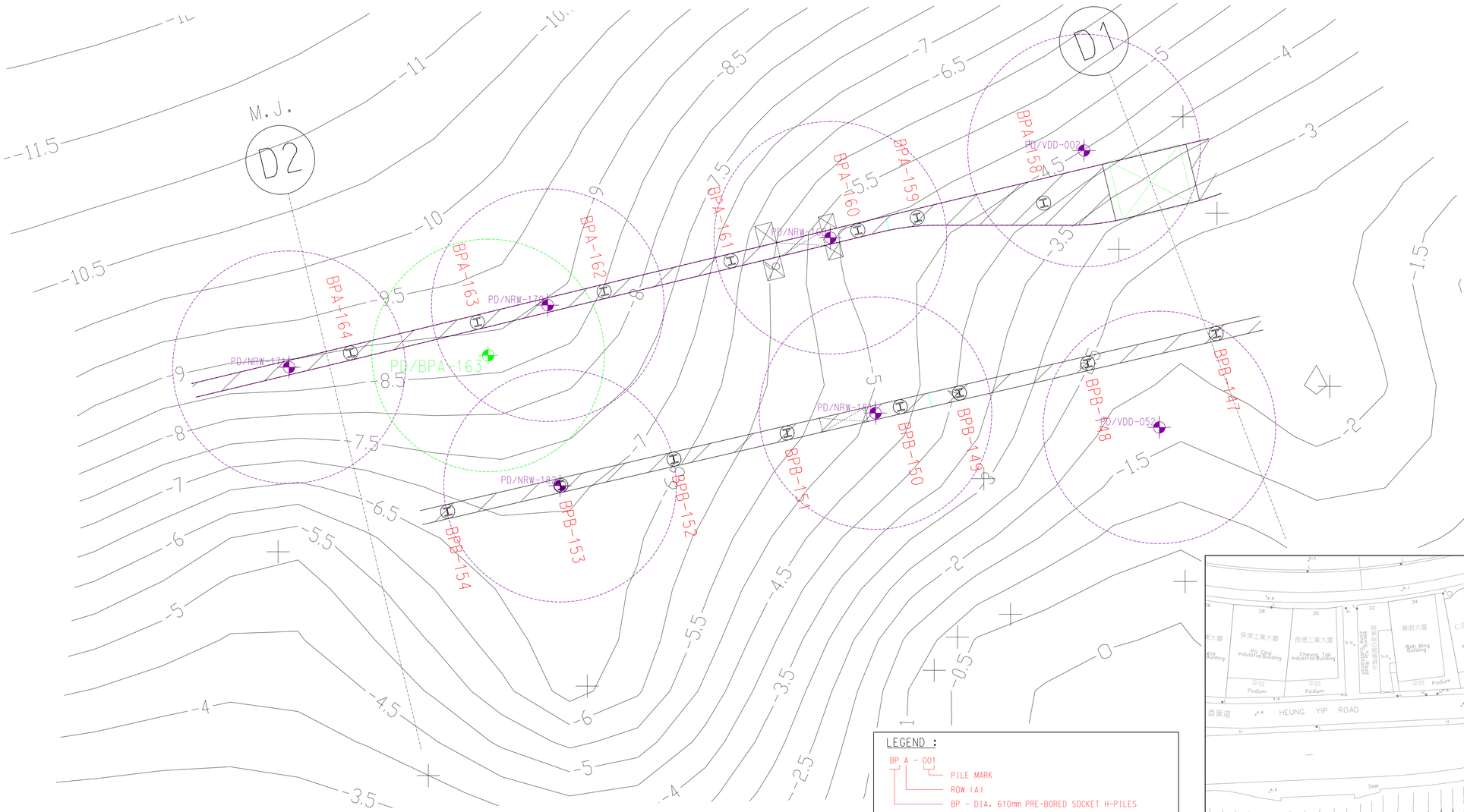
SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/543	A

PLOT DRV: C:\Program Data\Bentley\MicroStation V8i (SELECTseries)\WorkSpace\System\prj\tfgf2A3_colour.plt
MODELNAME: Default PRINTED BY: Sammy.W 10/1/2013 15:41:38
FILENAME: M:\LAI\BPA_004.dgn

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C8	BPA-158	28/11/2011	0.61	305 X 305 X 223	COMPRESSION	+ 0.688	- 4.62	- 8.42	3.50	-	- 4.79	- 8.75	3.66	9.44	835194.848	812114.385	-1	-16	16	250	GRADE III OR BETTER
	BPA-159	28/11/2011	0.61	305 X 305 X 223	COMPRESSION	+ 0.651	- 5.00	- 8.80	3.50	-	- 5.32	- 9.32	3.70	9.97	835189.410	812113.772	1	-4	4	162	
	BPA-160	28/11/2011	0.61	305 X 305 X 223	COMPRESSION	- 0.560	- 5.00	- 9.80	4.50	-	- 5.28	- 10.20	4.62	9.64	835186.913	812113.276	67	34	75	223	
	BPA-161	30/11/2011	0.61	305 X 305 X 223	COMPRESSION	- 0.600	- 7.00	- 11.80	4.50	-	- 7.49	- 12.50	4.71	11.90	835181.419	812111.925	22	8	23	194	
	BPA-162	30/11/2011	0.61	305 X 305 X 223	COMPRESSION	+ 0.601	- 9.17	- 13.47	4.00	-	- 9.34	- 13.92	4.28	14.52	835175.960	812110.541	1	-58	58	1414	
	BPA-163	30/11/2011	0.61	305 X 305 X 223	COMPRESSION	+ 0.581	- 9.50	- 13.80	4.00	-	- 9.92	- 14.47	4.25	15.05	835170.488	812109.292	-1	18	18	343	
	BPA-164	12/05/2011	0.61	305 X 305 X 223	COMPRESSION	+ 0.563	- 9.50	- 13.80	4.00	-	- 9.67	- 14.14	4.17	14.70	835165.020	812107.934	-23	-14	27	149	
	BPB-147	01/12/2012	0.61	299 x 305 x 223	COMPRESSION	+ 0.739	- 2.50	- 7.80	5.00	-	- 2.50	- 8.23	5.43	8.97	835202.347	812108.660	59	**-141**	**153**	94	
	BPB-148	15/03/2012	0.61	300 x 305 x 223	COMPRESSION	+ 0.716	- 3.00	- 8.30	5.00	-	- 3.08	- 8.57	5.19	9.29	835196.729	812107.493	-13	-9	16	1000	
	BPB-149	15/03/2012	0.61	301 x 305 x 223	COMPRESSION	+ 0.704	- 5.16	- 10.46	5.00	-	- 5.39	- 10.88	5.19	11.58	835191.218	812106.244	-1	18	18	894	
	BPB-150	15/03/2012	0.61	302 x 305 x 223	COMPRESSION	- 0.509	- 5.16	- 9.96	4.50	-	- 5.44	- 10.49	4.75	9.98	835188.699	812105.603	11	-19	40	2000	
	BPB-151	15/03/2012	0.61	303 x 305 x 223	COMPRESSION	- 0.530	- 6.00	- 10.80	4.50	-	- 6.16	- 11.09	4.63	10.56	835183.834	812104.522	22	6	23	248	
	BPB-152	15/03/2012	0.61	304 x 305 x 223	COMPRESSION	+ 0.678	- 7.12	- 11.92	4.50	-	- 7.40	- 12.39	4.69	13.07	835178.976	812103.379	26	-11	28	447	
	BPB-153	05/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.675	- 7.50	- 12.30	4.50	-	- 8.12	- 13.12	4.70	13.80	835174.084	812102.287	9	28	30	111	
	BPB-154	05/01/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.667	- 7.12	- 12.42	5.00	-	- 7.37	- 12.83	5.16	13.50	835169.211	812101.121	-7	-8	10	120	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE PROPOSED ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 1 2 3 4 5
METRES
1 : 100

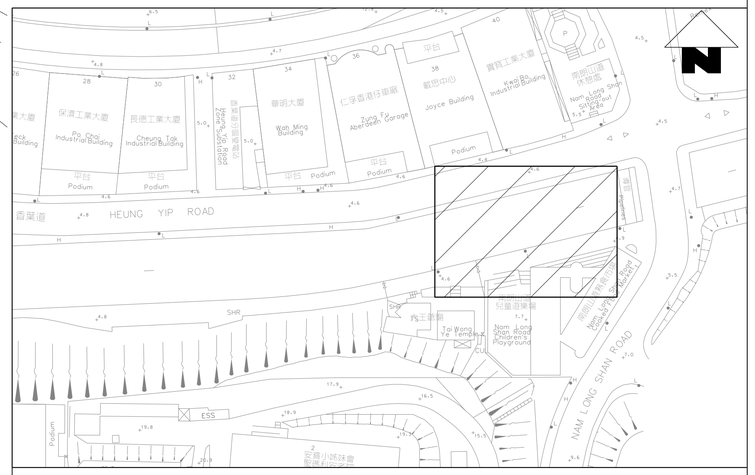
LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILL HOLE



KEY LOCATION PLAN

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	19 MAR 12

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. ZONE D.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C8)
SHEET 3 OF 3

SCALE 1 : 100 (A1)

DRAWING NO. 903/Z/340/ATK/C19/544

REV. A

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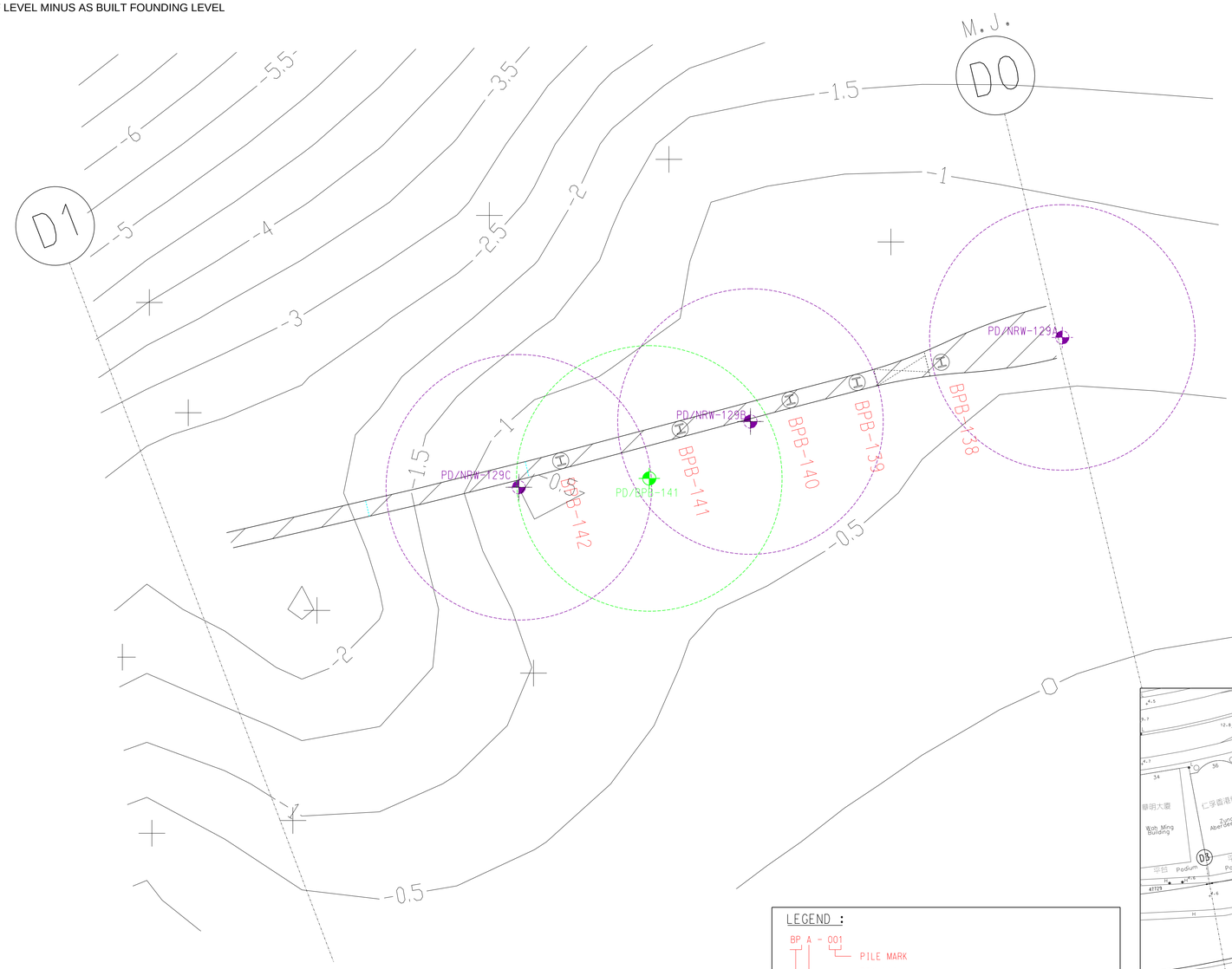
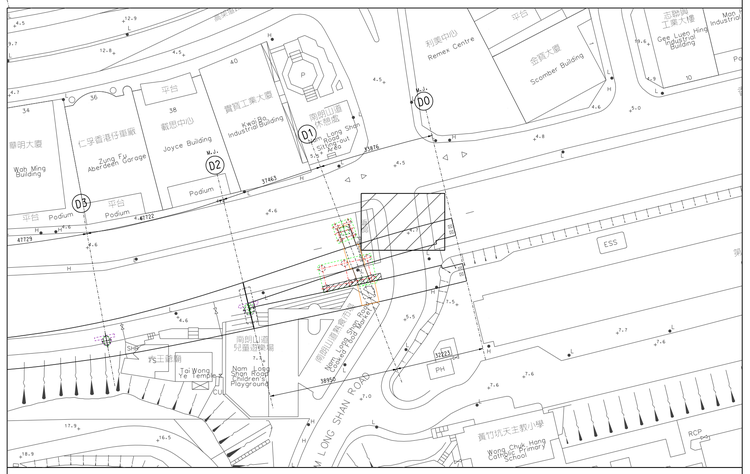
PRINTED BY: SammyW 10/1/2013 13:32:48

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	**CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	***AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C9	BPB-138	23/1/2013	0.61	305 x 305 x 223	COMPRESSION	- 0.399	- 0.60	- 5.40	4.50	-	- 0.60	- 6.10	5.20	5.70	835230.620	812115.843	61	-5	61	184	GRADE III OR BETTER
	BPB-139	23/1/2013	0.61	305 x 305 x 223	COMPRESSION	- 0.393	- 1.03	- 5.83	4.50	-	- 1.03	- 6.83	5.50	6.44	835227.102	812114.989	-2	-8	8	299	
	BPB-140	23/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.798	- 1.03	- 6.33	5.00	-	- 1.03	- 6.66	5.33	7.46	835223.383	812114.053	23	26	35	249	
	BPB-141	23/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.781	- 1.03	- 6.33	5.00	-	- 1.03	- 6.57	5.24	7.35	835219.383	812112.961	0	0	0	120	
	BPB-142	22/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.782	- 1.00	- 6.30	5.00	-	- 1.00	- 6.67	5.37	7.45	835215.561	812111.999	45	51	68	217	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm
** AS-BUILT CUT-OFF LEVL WAS DETERMINE ON SITE BASE ON EXISTING NULLAH LEVEL
*** AS-BUILT PILE LENGTH WAS BASE ON AS-BUILT CUT OFF LEVEL MINUS AS BUILT FOUNDING LEVEL





KEY LOCATION PLAN

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILL HOLE

0 1 2 3 4 5
METRES
1 : 100

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE PROPOSE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	06 FEB 13

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_544A.dgn

TITLE
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C9)(BATCH 1)
SHEET 1 OF 4

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/544	A

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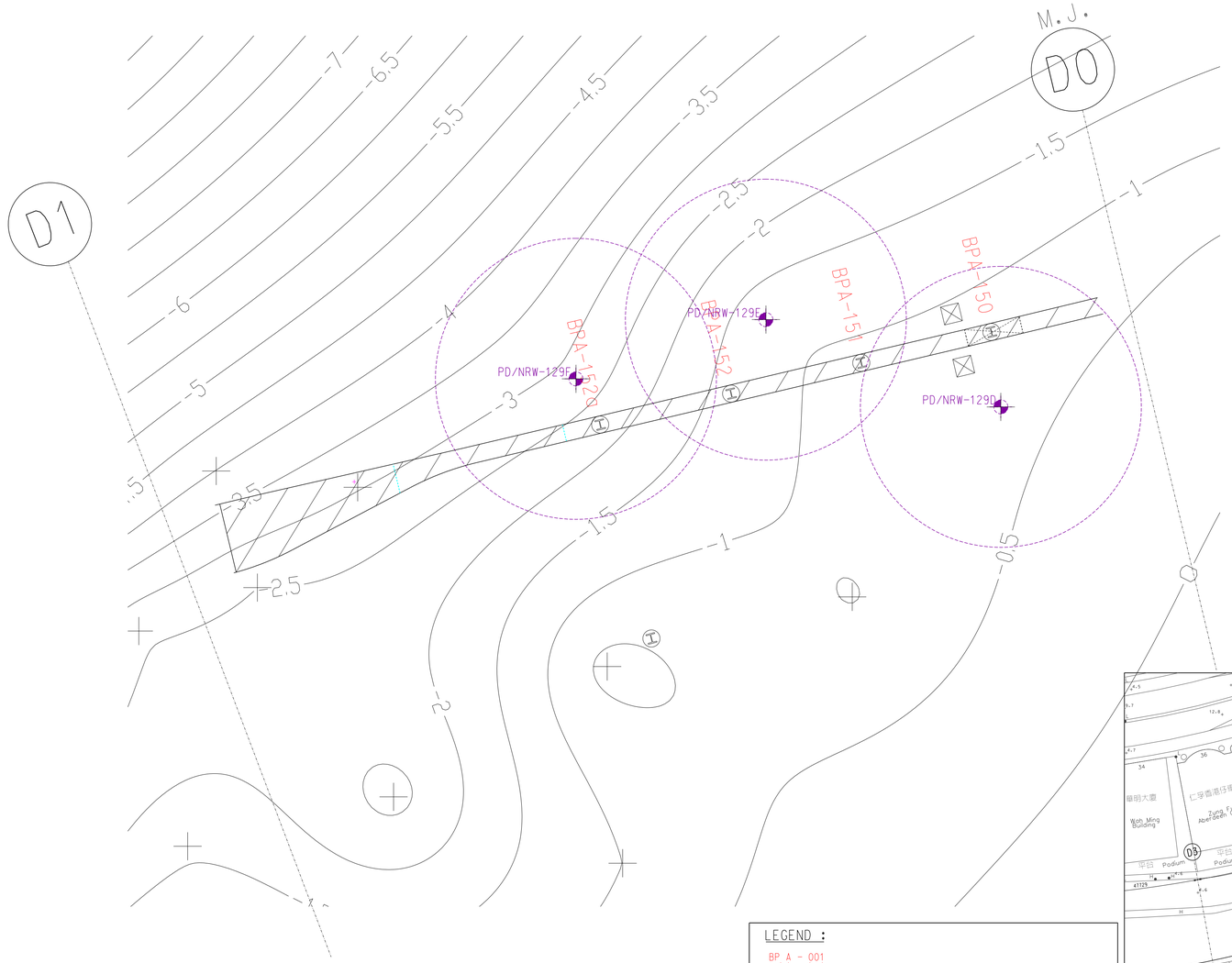
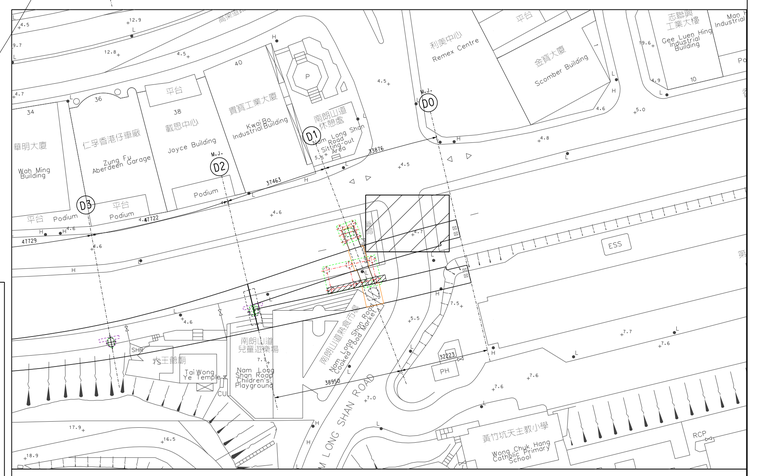
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	**CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	***AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C9	BPA-150	23/1/2013	0.61	305 x 305 x 223	COMPRESSION	- 0.448	- 1.00	- 5.80	4.50	-	- 1.00	- 6.00	4.70	5.55	835227.702	812122.938	0	0	0	226	GRADE III OR BETTER
	BPA-151	24/1/2013	0.61	305 x 305 x 223	COMPRESSION	- 0.453	- 1.11	- 5.91	4.50	-	- 1.11	- 6.64	5.23	6.19	835222.493	812121.651	12	-1	12	176	
	BPA-152	24/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.741	- 1.50	- 6.30	4.50	-	- 1.50	- 6.70	4.90	7.44	835220.437	812121.200	-1	33	33	210	
	BPA-152a	24/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.734	- 2.85	- 7.65	4.50	-	- 2.85	- 8.34	5.19	9.07	835214.292	812119.691	21	-21	30	115	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm
** AS-BUILT CUT-OFF LEVL WAS DETERMINE ON SITE BASE ON EXISTING NULLAH LEVEL
*** AS-BUILT PILE LENGTH WAS BASE ON AS-BUILT CUT OFF LEVEL MINUS AS BUILT FOUNDING LEVEL





KEY LOCATION PLAN

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

0 1 2 3 4 5
METRES
1 : 100

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE PROPOSE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	06 FEB 13

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_545A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C9) (BATCH 1)
SHEET 2 OF 4

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/545	A

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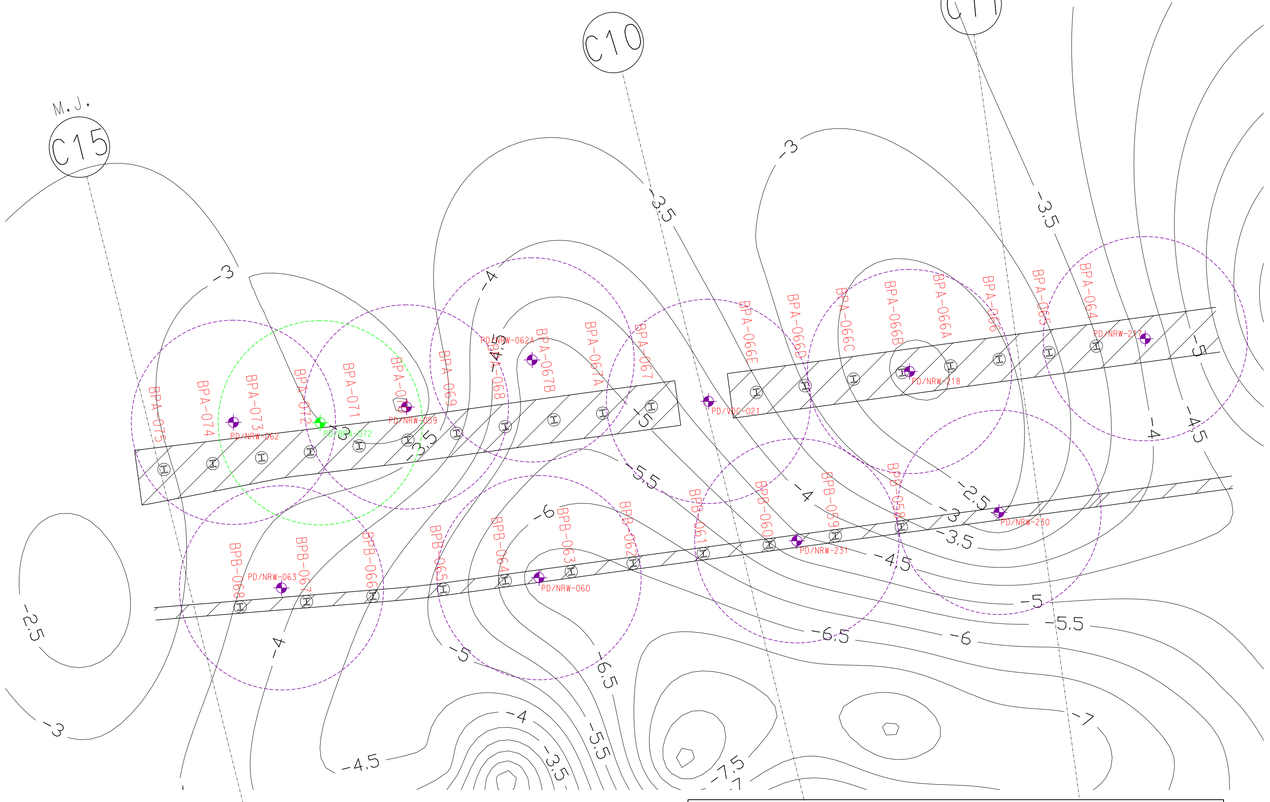
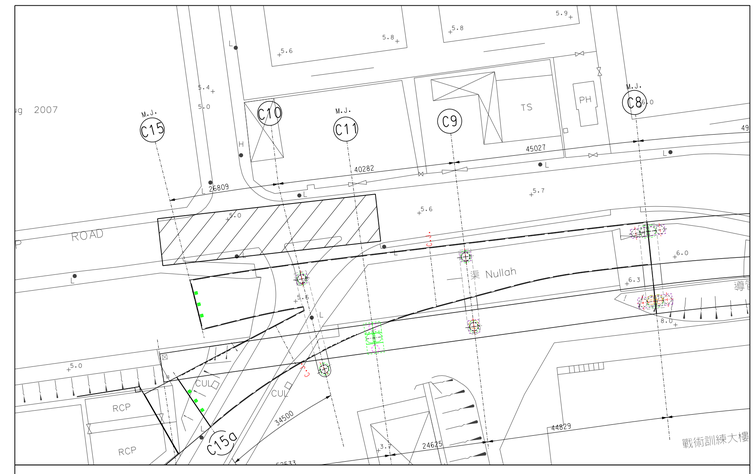
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	**CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	***AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C9	BPA-064	9/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.157	-4.12	-7.42	3.00	-	-4.18	-8.28	3.80	8.44	*835538.393*	*812182.253*	*-22*	*42*	*48*	*14142136*	GRADE III OR BETTER
	BPA-065	9/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.166	-4.12	-7.92	3.50	-	-4.12	-8.14	3.72	8.31	*835536.043*	*812181.928*	*4*	*37*	*37*	*350*	
	BPA-066	9/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.386	-2.50	-6.30	3.50	-	-2.78	-6.86	3.78	8.25	*835533.642*	*812181.583*	*-22*	*18*	*29*	*270*	
	BPA-066A	9/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.388	-2.50	-6.30	3.50	-	-2.64	-6.60	3.66	7.99	*835531.279*	*812181.241*	*-10*	*-3*	*11*	*205*	
	BPA-066B	8/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.386	-2.00	-5.80	3.50	-	-2.27	-6.50	3.93	7.89	*835528.906*	*812180.916*	*-7*	*-6*	*9*	*280*	
	BPA-066C	8/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.377	-2.50	-6.30	3.50	-	-2.64	-6.74	3.80	8.12	*835526.546*	*812180.659*	*19*	*57*	*60*	*141*	
	BPA-066D	8/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.374	-3.50	-7.30	3.50	-	-3.50	-7.43	3.63	8.80	*835524.124*	*812180.310*	*-29*	*38*	*48*	*200*	
	BPA-066E	9/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.370	-4.23	-8.03	3.50	-	-4.24	-8.30	3.76	9.67	*835521.760*	*812179.961*	*-19*	*10*	*21*	*220*	
	BPA-067	16/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.358	-5.00	-8.30	3.00	-	-5.60	-9.09	3.19	10.45	835516.586	812179.357	0	0	0	171	
	BPA-067A	16/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.354	-5.50	-8.80	3.00	-	-5.91	-9.38	3.17	10.73	835514.227	812178.959	-13	30	33	1000	
	BPA-067B	15/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.345	-5.50	-8.80	3.00	-	-5.92	-9.45	3.23	10.80	835511.866	812178.637	10	30	32	707	
	BPA-068	15/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.336	-5.31	-9.11	3.50	-	-5.63	-9.82	3.89	11.16	835509.518	812178.318	47	35	58	171	
	BPA-069	15/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.327	-4.00	-7.80	3.50	-	-4.22	-8.26	3.74	9.59	835507.125	812177.938	31	-13	34	268	
	BPA-070	15/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.319	-3.50	-7.30	3.50	-	-3.57	-7.57	3.70	8.89	835504.754	812177.619	46	-5	46	600	
	BPA-071	7/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.311	-3.50	-7.30	3.50	-	-3.63	-7.64	3.71	8.95	835502.364	812177.329	44	-5	45	894	
	BPA-072	7/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.107	-3.50	-7.30	3.50	-	-3.63	-7.72	3.79	7.83	835499.897	812177.025	-34	-11	36	1000	
	BPA-073	7/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.102	-3.50	-6.80	3.00	-	-3.81	-7.87	3.76	7.97	835497.540	812176.801	5	48	49	1000	
	BPA-074	31/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.300	-3.50	-6.80	3.00	-	-3.71	-7.38	3.37	8.68	835495.221	812176.467	69	-5	69	316	
	BPA-075	31/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 1.293	-3.50	-7.30	3.50	-	-3.66	-7.76	3.80	9.05	835492.701	812176.217	-56	49	75	333	
	BPB-058	5/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.396	-4.00	-6.80	2.50	-	-4.29	-7.55	2.96	8.95	835528.848	812173.394	-21	37	43	268	
	BPB-059	5/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.395	-4.59	-7.39	2.50	-	-4.97	-7.97	2.70	9.37	835525.600	812172.941	-36	23	43	424	
	BPB-060	5/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.397	-5.50	-8.30	2.50	-	-5.85	-8.81	2.66	10.21	835522.410	812172.476	2	-11	11	300	
	BPB-061	5/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.390	-6.00	-8.80	2.50	-	-6.43	-9.47	2.74	10.86	835519.205	812172.048	32	-6	33	600	
	BPB-062	12/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.373	-6.81	-9.61	2.50	-	-7.31	-10.46	2.85	11.83	835515.934	812171.634	-2	22	22	268	
	BPB-063	12/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.370	-7.00	-9.80	2.50	-	-7.33	-10.34	2.71	11.71	835512.730	812171.181	24	4	24	424	
	BPB-064	12/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.373	-6.81	-10.11	3.00	-	-7.44	-10.93	3.19	12.30	835509.504	812170.786	36	54	65	600	
	BPB-065	12/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.364	-6.81	-10.11	3.00	-	-6.91	-10.44	3.23	11.80	835506.281	812170.277	38	-12	39	300	
	BPB-066	14/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 1.334	-4.50	-7.80	3.00	-	-4.60	-8.29	3.39	9.62	835502.989	812169.947	-8	-21	23	*447*	
	BPB-067	14/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.133	-4.50	-7.80	3.00	-	-4.56	-8.00	3.14	8.13	835499.792	812169.720	51	10	52	333	
	BPB-068	31/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 0.126	-4.00	-6.80	2.50	-	-4.13	-7.25	2.82	7.38	835496.444	812169.357	0	0	0	248	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm
** AS-BUILT CUT-OFF LEVL WAS DETERMINE ON SITE BASE ON EXISTING NULLAH LEVEL
*** AS-BUILT PILE LENGTH WAS BASE ON AS-BUILT CUT OFF LEVEL MINUS AS BUILT FOUNDING LEVEL





KEY LOCATION PLAN

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE PROPOSED ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 1.5 3 4.5 6 7.5
METRES
1 : 150

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST DRILL HOLE

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	06 FEB 13

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_ATK_C19_546A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C9)(BATCH 1)
SHEET 3 OF 4

SCALE	DRAWING NO.	REV.
1 : 150 (A1)	903/Z/340/ATK/C19/546	A

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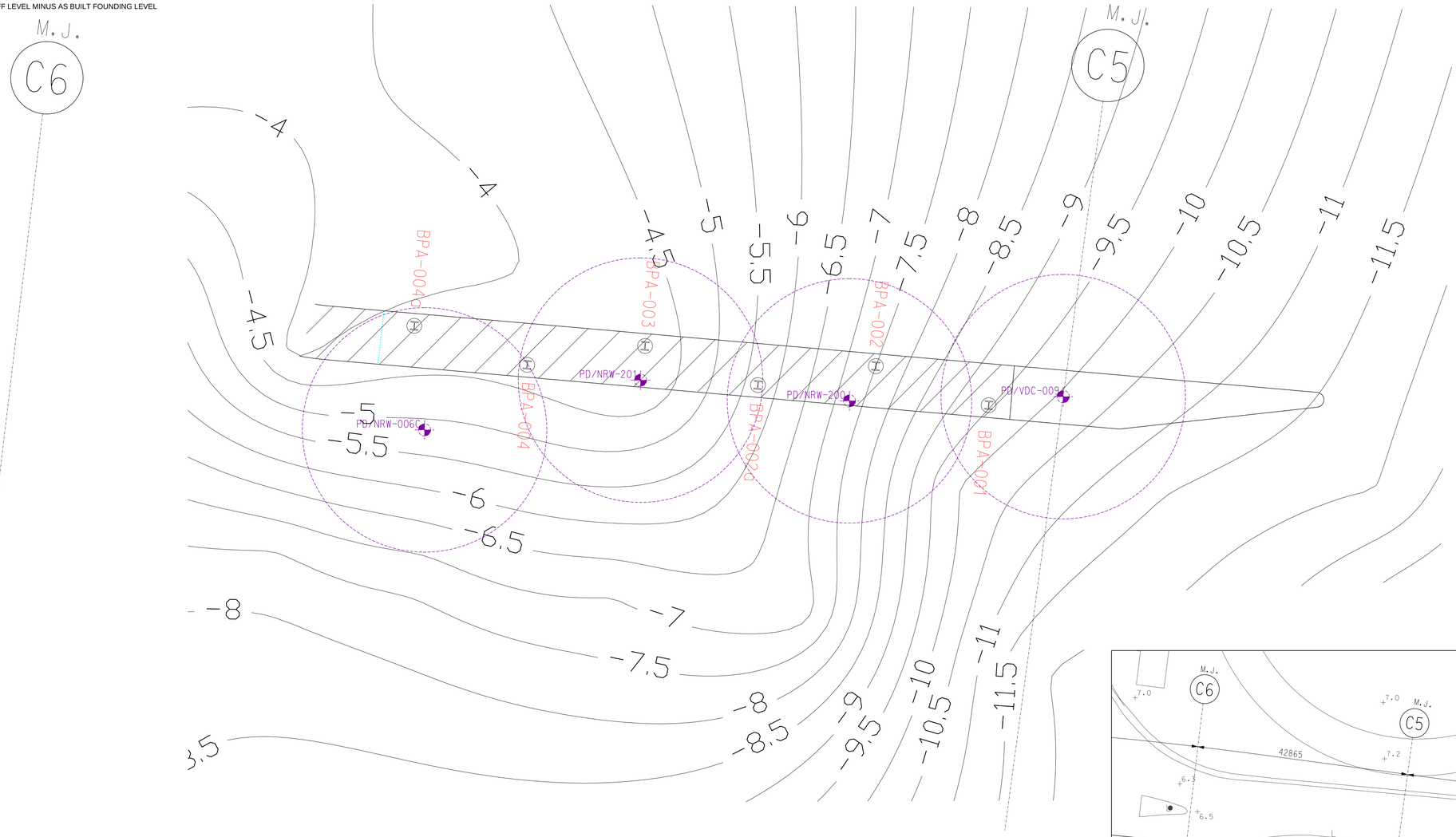
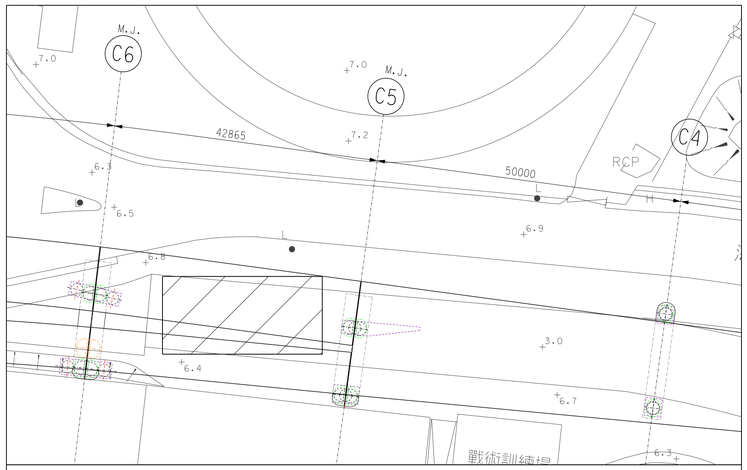
FILENAME: W:\LOAL drawing\903 Z_as_Built\204EB20132903_Z_ATK_C19_546A.dgn

Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	**CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	***AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C9	BPA-001	18/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 2.357	- 10.06	- 14.86	4.50	-	- 10.06	- 15.23	4.87	17.59	835743.119	812179.049	49	-7	50	400	GRADE III OR BETTER
	BPA-002	18/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 2.279	- 8.00	- 12.80	4.50	-	- 8.01	- 13.07	4.76	15.35	835738.447	812180.647	-7	-13	15	400	
	BPA-002a	17/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 2.279	- 7.24	- 12.04	4.50	-	- 7.24	- 12.20	4.66	14.48	835733.603	812179.929	-33	40	52	134	
	BPA-003	18/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 2.202	- 4.50	- 9.30	4.50	-	- 4.67	- 9.55	4.58	11.75	835729.018	812181.462	4	-22	23	268	
	BPA-004	17/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 2.211	- 4.50	- 9.30	4.50	-	- 4.57	- 9.61	4.74	11.82	835724.157	812180.715	-37	-1	37	187	
	BPA-004a	17/12/2012	0.61	305 x 305 x 223	COMPRESSION	+ 2.152	- 4.99	- 9.79	4.50	-	- 5.12	- 9.96	4.54	12.11	835719.585	812182.352	4	42	43	268	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm
** AS-BUILT CUT-OFF LEVL WAS DETERMINE ON SITE BASE ON EXISTING NULLAH LEVEL
*** AS-BUILT PILE LENGTH WAS BASE ON AS-BUILT CUT OFF LEVEL MINUS AS BUILT FOUNDING LEVEL





KEY LOCATION PLAN

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE PROPOSED ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 1 2 3 4 5
METRES
1 : 100

REV	DESCRIPTION	BY	DATE	APPROVED

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	C.F.WOO
DESIGNED	---
CHECKED	---
APPROVED	
DATE	06 FEB 13

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_ATK_C19_547A.dgn

TITLE
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (PRE-BORED H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C9) (BATCH 1)
SHEET 4 OF 4

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/ATK/C19/547	A

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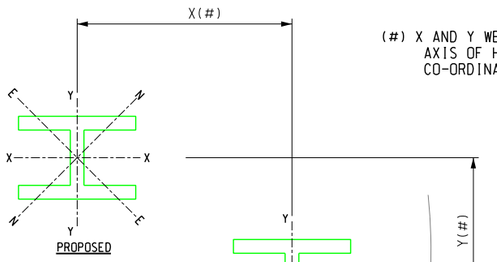
PRINTED BY: sammyw
DATE: 7/2/2013 11:23:28

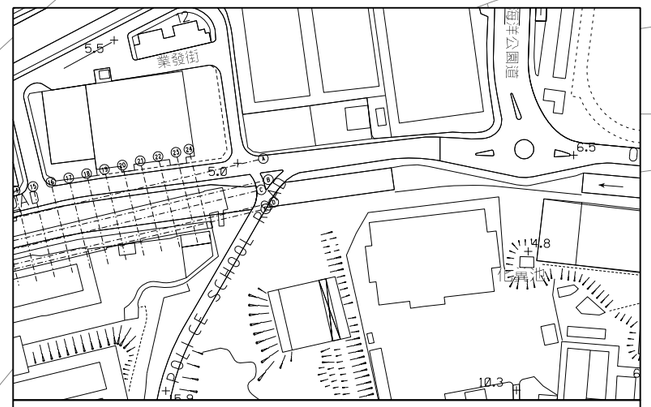
Nullah Reconstruction - As-Built Record for Pre-bored H-Pile Foundation

Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	**CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	***AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (#) (mm)	Y (#) (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C9 - Batch 2	BPC-039N	21/2/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.124	- 8.15	- 10.95	2.50	-	- 8.56	- 11.65	2.79	11.77	*835528.086*	*812165.180*	*-41*	*7*	*41*	*179*	GRADE III OR BETTER
	BPC-040	22/2/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.122	- 8.15	- 10.95	2.50	-	- 8.28	- 11.36	2.78	11.48	*835525.293*	*812164.756*	*-23*	*-45*	*50*	*133*	
	BPC-041	22/2/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.118	- 8.75	- 11.55	2.50	-	- 9.26	- 12.23	2.67	12.35	*835521.886*	*812164.403*	*30*	*56*	*64*	*900*	
	BPC-042	23/2/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.115	- 8.75	- 11.55	2.50	-	- 9.10	- 13.01	3.61	13.13	*835518.440*	*812163.845*	*17*	*-41*	*45*	900	
	BPC-043	23/2/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.110	- 8.75	- 11.55	2.50	-	- 9.25	- 12.18	2.63	12.29	*835514.963*	*812163.461*	*-3*	*37*	*37*	900	
	BPC-044	23/2/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.103	- 4.00	- 6.80	2.50	-	- 4.01	- 7.73	3.42	7.83	835511.537	812162.964	11	-2	12	120	
	BPC-045	23/2/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.095	- 3.50	- 6.30	2.50	-	- 5.07	- 8.42	3.05	8.52	835508.100	812162.501	20	-8	22	166	
	BPC-046	11/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.088	- 5.00	- 7.80	2.50	-	- 5.04	- 8.19	2.85	8.28	835504.598	812162.113	-25	71	75	1000	
	BPC-047	11/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.079	- 5.00	- 7.80	2.50	-	- 5.23	- 8.03	2.50	8.11	835501.197	812161.582	10	-6	12	2000	
	BPC-048	11/1/2013	0.61	305 x 305 x 223	COMPRESSION	+ 0.067	- 4.58	- 7.38	2.50	-	- 4.88	- 7.84	2.66	7.91	835498.187	812161.209	0	0	0	600	
	BPD-039N	21/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.669	- 8.50	- 11.00	2.00	8	- 8.56	- 11.29	2.23	11.96	*835528.433*	*812163.166*	*38*	*-36*	*52*	200	
	BPD-040	21/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.667	- 8.15	- 10.65	2.00	7	- 8.56	- 11.11	2.05	11.78	*835525.551*	*812162.826*	*-23*	*9*	*25*	133	
	BPD-041	22/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.663	- 8.75	- 11.25	2.00	7	- 8.89	- 11.58	2.19	12.24	*835522.101*	*812162.334*	*-30*	*-23*	*38*	1730	
	BPD-042	25/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.660	- 8.75	- 11.25	2.00	7	- 8.90	- 11.89	2.49	12.55	*835518.595*	*812161.975*	*-19*	*-3*	*19*	14142136	
	BPD-043	25/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.655	- 8.75	- 11.25	2.00	8	- 9.55	- 12.11	2.06	12.77	*835515.214*	*812161.492*	*-15*	*52*	*54*	14142136	
	BPD-044	23/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.648	- 3.50	- 6.35	2.00	7	- 3.96	- 6.48	2.02	7.13	835511.736	812160.965	-55	-11	56	150	
	BPD-045	23/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.640	- 2.50	- 5.37	2.00	6	- 3.29	- 6.20	2.41	6.84	835508.309	812160.555	-29	36	47	134	
	BPD-046	25/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.633	- 4.58	- 7.08	2.00	6	- 5.17	- 7.90	2.23	8.53	835504.942	812160.109	50	39	64	424	
	BPD-047	25/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.624	- 4.58	- 7.58	2.50	7	- 5.28	- 8.79	3.01	9.41	835501.443	812160.084	56	27	62	250	
	BPD-048	25/2/2013	0.61	305 x 305 x 223	TENSION	+ 0.612	- 4.58	- 7.58	2.50	7	- 5.00	- 8.19	2.69	8.80	835497.935	812159.583	-11	-7	13	268	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm or FOR TENSION PILES; (c) = (a) - (b) - 500mm
** AS-BUILT CUT-OFF LEVL WAS DETERMINE ON SITE BASE ON EXISTING NULLAH LEVEL
*** AS-BUILT PILE LENGTH WAS BASE ON AS-BUILT CUT OFF LEVEL MINUS AS BUILT FOUNDING LEVEL



(#) X AND Y WERE DEVIATE OF THE LOCAL AXIS OF H-BEAM FROM AS-BUILT CO-ORDINATE.



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. PILE CASTING AND BAR SPREADERS WERE GRADE S275 TO BS EN10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. THE TENTATIVE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 750 1500 2250 3000 3750
MILLIMETRES
1 : 75

LEGEND:

PRE- DRILLING HOLE

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	SW
DESIGNED	---
CHECKED	KL
APPROVED	-
DATE	18 MAR 13

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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_ATK_C19_551A.dgn

TITLE

CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C9)
(SHEET 1 OF 1)

SCALE	DRAWING NO.	REV.
1 : 75 (A1)	903/Z/340/ATK/C19/551	A

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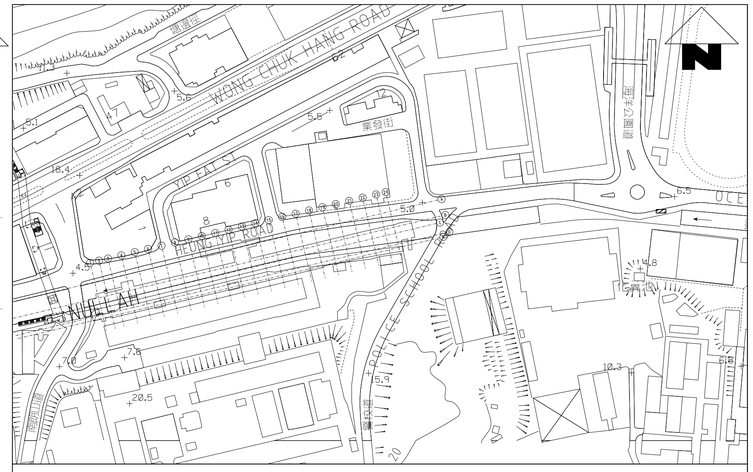
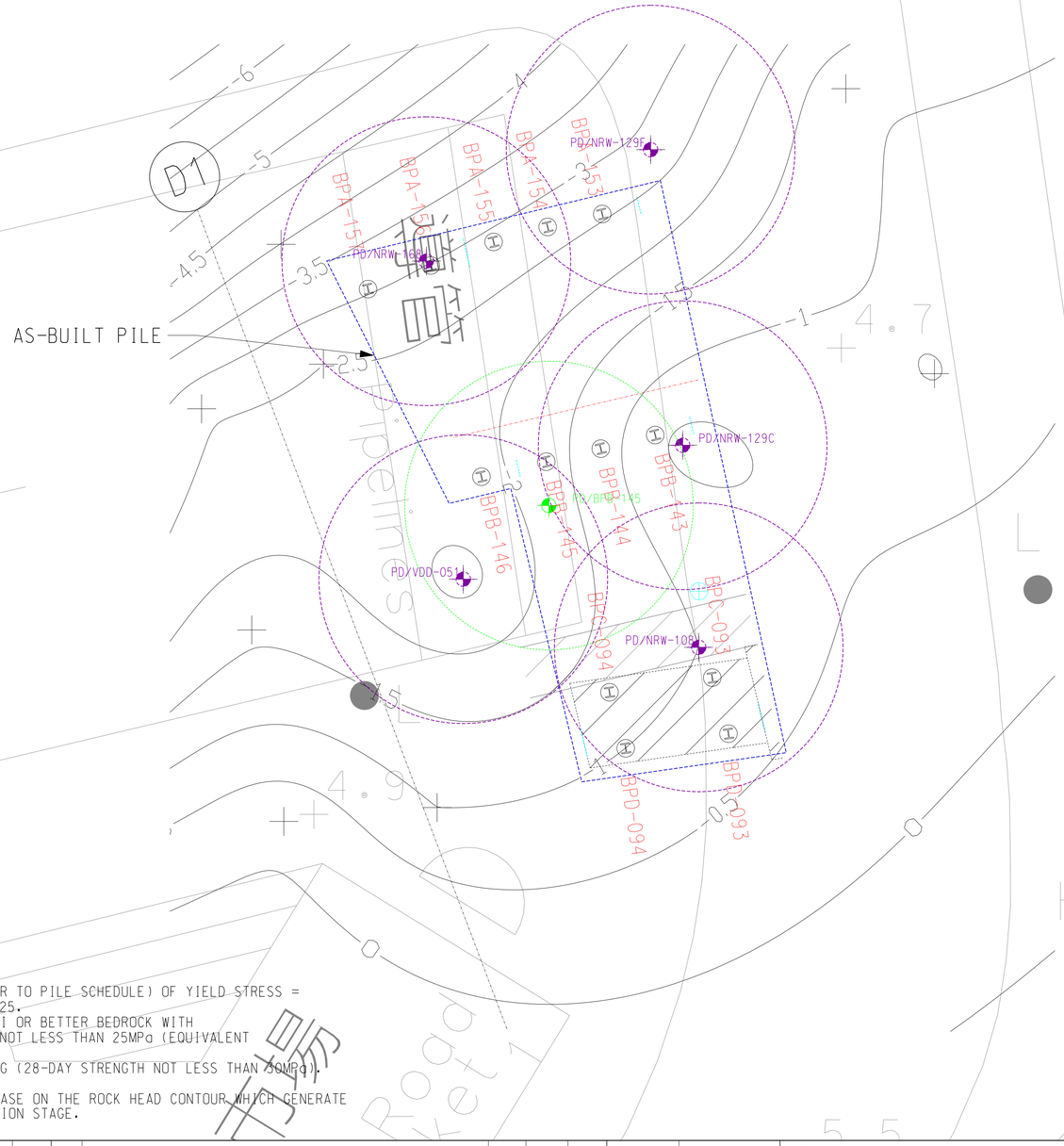
Package	PILE MARK	GROUTING DATE	PILE DIAMETER	STEEL MEMBER SIZE	TYPE OF PILE	**CUT OFF LEVEL	PROPOSED ROCKHEAD LEVEL	PROPOSED FOUNDING LEVEL	MIN. ROCK SOCKET LENGTH	MIN. PILE LENGTH	AS-BUILT ROCKHEAD LEVEL (a)	AS-BUILT FOUNDING LEVEL (b)	*AS-BUILT ROCK SOCKET LENGTH (c)	***AS-BUILT PILE LENGTH	COORDINATE		TEMPORARY CASTING OFFSET BEFORE GROUTING				AS-BUILT FOUNDING MATERIAL
															E	N	X (mm)	Y (mm)	OVERALL (mm)	Verticality 1 in	
			(m)	(kg/m)		(mPD)	(mPD)	(mPD)	(m)	(m)	(mPD)	(mPD)	(m)	(m)							
C9 - Batch 3	BPA-153	5-Nov-13	0.61	305 x 305 x 223	Compression	+ 0.800	-3.00	-7.30	4.00	8.10	- 3.06	- 7.92	4.56	8.72	835212.171	812119.174	-15	-32	36	196	GRADE III OR BETTER
	BPA-154	2-Nov-13	0.61	305 x 305 x 223	Compression	+ 0.800	-3.00	-7.30	4.00	8.10	- 3.11	- 7.53	4.12	8.33	835210.322	812118.788	8	17	19	1265	
	BPA-155	2-Nov-13	0.61	305 x 305 x 223	Compression	+ 0.800	-3.03	-7.33	4.00	8.13	- 3.17	- 7.77	4.30	8.57	835208.163	812118.250	-16	50	52	271	
	BPA-156	2-Nov-13	0.61	305 x 305 x 223	Compression	+ 0.800	-3.50	-7.30	3.50	8.10	- 3.58	- 7.50	3.62	8.30	835205.948	812117.378	-61	7	61	208	
	BPA-157	2-Nov-13	0.61	305 x 305 x 223	Compression	+ 0.800	-3.50	-7.80	4.00	8.60	- 3.56	- 8.08	4.22	8.88	835204.406	812116.872	168	-24	169	625	
	BPB-143	31-Oct-13	0.61	305 x 305 x 223	Compression	+ 0.900	-1.00	-6.30	5.00	7.20	- 1.09	- 6.46	5.07	7.36	835213.273	812111.372	-21	8	23	217	
	BPB-144	1-Nov-13	0.61	305 x 305 x 223	Compression	+ 0.900	-1.50	-6.80	5.00	7.70	- 1.64	- 7.29	5.35	8.19	835211.475	812110.930	29	15	33	239	
	BPB-145	1-Nov-13	0.61	305 x 305 x 223	Compression	+ 0.900	-2.00	-7.30	5.00	8.20	- 2.08	- 7.49	5.11	8.39	835209.742	812110.504	-42	-7	43	267	
	BPB-146	31-Oct-13	0.61	305 x 305 x 223	Compression	+ 0.900	-2.69	-7.99	5.00	8.89	- 2.73	- 8.06	5.03	8.96	835207.776	812110.076	8	17	19	447	
	BPC-093	30-Oct-13	0.61	305 x 305 x 223	Compression	- 0.480	- 1.13	- 3.55	2.12	2.82	- 1.13	- 3.55	2.12	3.07	835216.075	812103.073	-131	-69	148	500	
	BPC-094	30-Oct-13	0.61	305 x 305 x 223	Compression	- 0.480	- 1.62	- 3.64	1.72	2.82	- 1.62	- 3.64	1.72	3.16	835212.203	812102.548	-35	-45	58	222	
	BPD-093	30-Oct-13	0.61	305 x 305 x 223	Tension	+ 0.070	- 1.03	- 5.57	4.04	5.57	- 1.03	- 5.57	4.04	5.64	835216.573	812101.227	-39	27	47	743	
	BPD-094	30-Oct-13	0.61	305 x 305 x 223	Tension	+ 0.070	- 1.05	- 6.13	4.58	6.07	- 1.05	- 6.13	4.58	6.20	835212.810	812100.622	33	-22	40	264	

Remark: * FOR COMPRESSION PILES; (c) = (a) - (b) - 300mm or FOR TENSION PILES; (c) = (a) - (b) - 500mm
** AS-BUILT CUT-OFF LEVL WAS DETERMINE ON SITE BASE ON EXISTING NULLAH LEVEL
*** AS-BUILT PILE LENGTH WAS BASE ON AS-BUILT CUT OFF LEVEL MINUS AS BUILT FOUNDING LEVEL



KEY LOCATION PLAN



NOTES:

1. ALL LEVELS SHOWN ARE IN METRES ABOVE PRINCIPAL DATUM.
2. ALL AS-CONSTRUCTED PILES WERE STEEL H-PILE (SIZE REFER TO PILE SCHEDULE) OF YIELD STRESS = 430/N/mm² AND COMPLIED WITH GRADE S450J0 TO BS EN 10025.
3. ALL PILES WERE CONSTRUCTED AS SOCKET PILE IN GRADE III OR BETTER BEDROCK WITH TOTAL CORE RECOVERY OF MORE THAN 85% AND UCS OF ROCK NOT LESS THAN 25MPa (EQUIVALENT POINT LOAD INDEX STRENGTH NOT LESS THAN 1MPa)
4. ALL PILES WERE GROUTED WITH NON-SHRINK CEMENT GROUTING (28-DAY STRENGTH NOT LESS THAN 30MPa).
5. ALL WELDING WERE COMPLED WITH BS EN1011.
6. THE TENTATIVE ROCK HEAD LEVEL OF ALL THE PILES WERE BASE ON THE ROCK HEAD CONTOUR WHICH GENERATE BY ALL THEPRE-DRILL DATA CARRIED OUT DURING CONSTRUCTION STAGE.

0 1 2 3 4 5
METRES
1 : 100

LEGEND :

BP A - 001
- PILE MARK
- ROW (A)
- BP - DIA. 610mm PRE-BORED SOCKET H-PILES

DIA. 610mm PRE-BORED SOCKETED H-PILE

PRE- DRILLING HOLE

POST- DRILLING HOLE

REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	SW
DESIGNED	---
CHECKED	KL
APPROVED	-
DATE	18 MAR 13

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.
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MTR

SOUTH ISLAND LINE (EAST)

ORIGINATOR

LEIGHTON 禮頓

CADD REF. 903_Z_340_LCA_C19_552A.dgn

TITLE
CONTRACT 903
NULLAH RECONSTRUCTION WORKS
AS-BUILT NULLAH FOUNDATION (H-PILES)
LAYOUT PLAN & PILING SCHEDULE (PACKAGE C9)
(SHEET 1 OF 1)

SCALE	DRAWING NO.	REV.
1 : 100 (A1)	903/Z/340/LCA/C19/552	A

PLOT DRV: C:\ProgramData\Bentley\MicroStation V8i (SELECTseries1\WorkSpace\System\plt\cfg\A3_colour.plt
MODELNAME: Default PRINTED BY: sammyw 20/11/2013 11:53:42
FILENAME: W:\TCAL drawing\903 Z_A3_Built\903_Z_340_LCA_C19_552A\903_Z_340_LCA_C19_552A.dgn


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No.: 912
Hole No. : 912/SIL/D229
Box No. : 1 of 3
Depth : 0.00 m. To 9.56 m.
Date : From 24/11/2009 to 25/11/2009
Kodak Color Control Patches
0.00
5.00
5.60
6.57M
6.57
7.28
8.05
8.05M
8.80
9.56


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No.: 912
Hole No. : 912/SIL/D229
Box No. : 2 of 3
Depth : 9.56 m. To (14.34) m.
Date : From 24/11/2009 to 25/11/2009
Kodak Color Control Patches
9.56
10.00
10.97
12.42
12.42M
13.65
(14.34)


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No.: 912
Hole No. : 912/SIL/D229
Box No. : 3 of 3
Depth : (14.34) m. To 16.72 m.
Date : From 24/11/2009 to 25/11/2009
Kodak Color Control Patches
(14.34)
15.20
16.72
END


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No. :912
Hole No. : 912/SIL/D230
Box No. : 1 of 3
Depth : 0.00 m. To 17.50 m.
Date : From 19/06/2009 to 26/06/2009
Kodak Color Control Patches
0.00
1.30
1.80
2.20
2.70
5.80
17.50


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No. :912
Hole No. : 912/SIL/D230
Box No. : 2 of 3
Depth : 17.50 m. To (21.12) m.
Date : From 19/06/2009 to 26/06/2009
Kodak Color Control Patches
17.50
NR
17.60-17.75
18.00
19.31
20.76
(21.12)


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No. :912
Hole No. : 912/SIL/D230
Box No. : 3 of 3
Depth : (21.12) m. To 23.57 m.
Date : From 19/06/2009 to 26/06/2009
Kodak Color Control Patches
(21.12)
22.31
23.57
END


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No.: 912
Hole No. : 912/SIL/D233
Box No. : 1 of 3
Depth : 0.00 m. To 6.44 m.
Date : From 19/09/2009 to 21/09/2009
Kodak Color Control Patches
0.00
3.30
4.50
4.509
5.557
6.44


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No.: 912
Hole No. : 912/SIL/D233
Box No. : 2 of 3
Depth : 6.44 m. To 9.86 m.
Date : From 19/09/2009 to 21/09/2009
6.44
6.96
7.86
8.74
9.86


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No.: 912
Hole No. : 912/SIL/D233
Box No. : 3 of 3
Depth : 9.86 m. To 12.17 m.
Date : From 19/09/2009 to 21/09/2009
Kodak Color Control Patches
9.86
10.73
12.17
END


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No. :912
Hole No. : 912/SIL/D234
Box No. : 1 of 3
Depth : 0.00 m. To 4.16 m.
Date : From 09/06/2009 to 09/06/2009
Kodak Color Control Patches
0.00
0.85
1.60
2.70
4.16


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No. :912
Hole No. : 912/SIL/D234
Box No. : 2 of 3
Depth : 4.16 m. To (7.82) m.
Date : From 09/06/2009 to 09/06/2009
Kodak Color Control Patches
4.16
5.67
7.21
(7.82)


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No. :912
Hole No. : 912/SIL/D234
Box No. : 3 of 3
Depth : (7.82) m. To 11.07 m.
Date : From 09/06/2009 to 09/06/2009
Kodak Color Control Patches
(7.82)
8.20
9.58
11.07
END


MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No. :912
Hole No. : 912/SIL/D235
Box No. : 1 of 3
Depth : 0.00 m. To 7.62 m.
Date : From 19/06/2009 to 22/06/2009
Kodak Color Control Patches
Blue
Cyan
Green
Yellow
Red
Magenta
White
3 Color
Black
0.00
4.45
4.45M
5.61
NR
5.94-6.40
6.40
7.62

MTR

FUGRO

Project : Ground Investigation for South Island Line (East) Contract No. :912

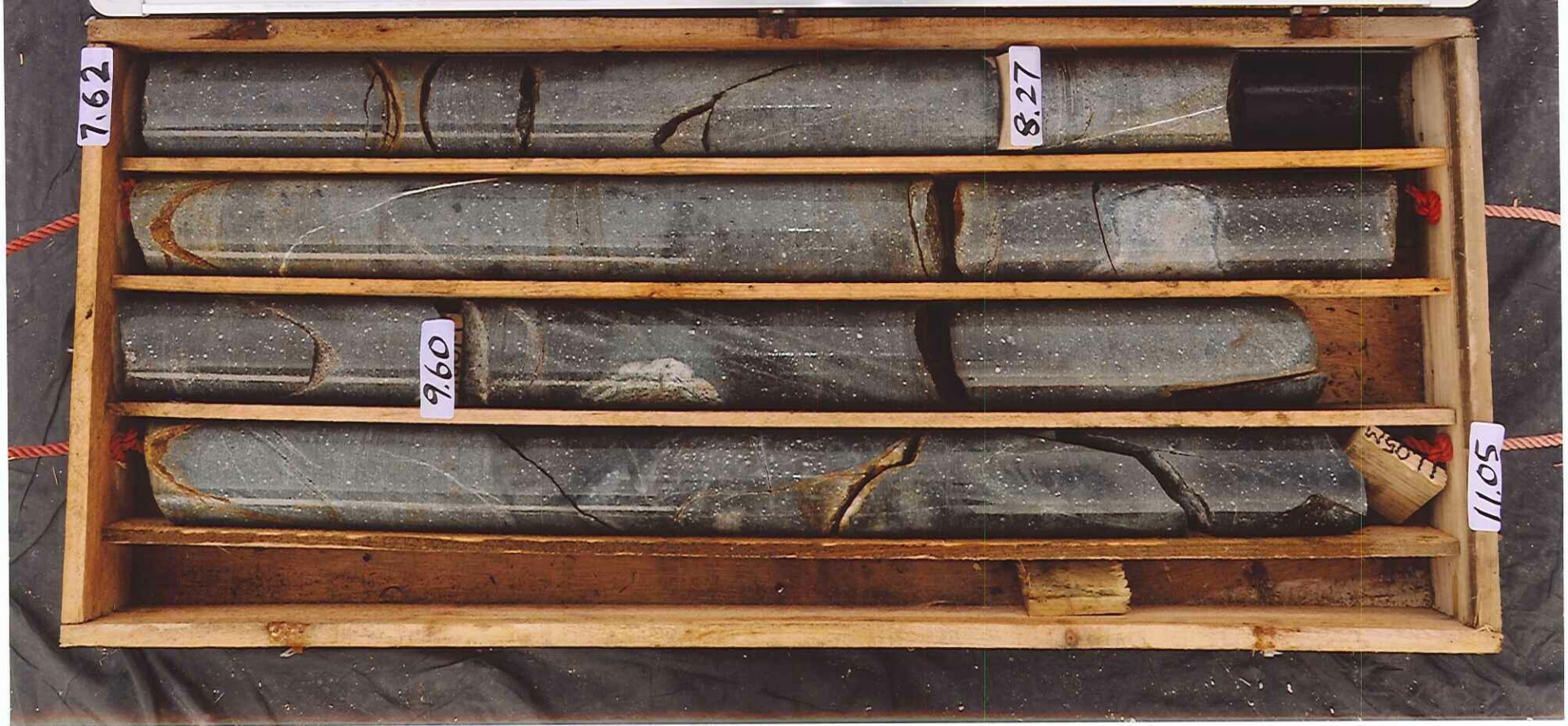
Hole No. : 912/SIL/D235

Box No. : 2 of 3

Depth : 7.62 m. To 11.05 m.

Date : From 19/06/2009 to 22/06/2009






MTR
FUGRO
Project : Ground Investigation for South Island Line (East) Contract No. :912
Hole No. : 912/SIL/D235
Box No. : 3 of 3
Depth : 11.05 m. To 12.17 m.
Date : From 19/06/2009 to 22/06/2009
Kodak Color Control Patches
11.05
12.17
END


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024 Ground Investigation for South Island Line
Hole No. : 1024/SIL/D036 A
Depth : 0.00 m. To 12.00 m.
Box No. : 1 of 8
Date of Photo : 11/10/2008
0.00
1.00
2.00
3.00
3.50
4.20
4.80
5.30
6.50
7.40
12.00


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D036 A
Depth : 12.00 m. To (15.34) m.
Box No. : 2 of 8
Date of Photo : 11/10/2008
12.00
12.53
13.84
15.12
(15.34)


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D036 A
Depth : (15.34) m. To 18.83 m.
Box No. : 3 of 8
Date of Photo : 11/10/2008
(15.34)
15.94
17.34
18.83


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D036 A
Depth : 18.83 m. To (22.39) m.
Box No. : 4 of 8
Date of Photo : 11/10/2008
18.83
20.04
20.55
21.94
(22.39)


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024 Ground Investigation for South Island Line
Hole No. : 1024/SIL/D036A
Depth : (22.39) m. To 25.93 m.
Box No. : 5 of 8
Date of Photo : 11/10/2008
(22.39)
23.38
2438
25.93

Client : MTR Corporation

Contractor : Gammon Construction Ltd.

Project : Contract NEX 1024 Ground Investigation for South Island Line

Hole No. :	1024/SIL/D036 A
Depth :	25.93 m. To (29.38) m.
Box No. :	6 of 8
Date of Photo :	11/10/2008

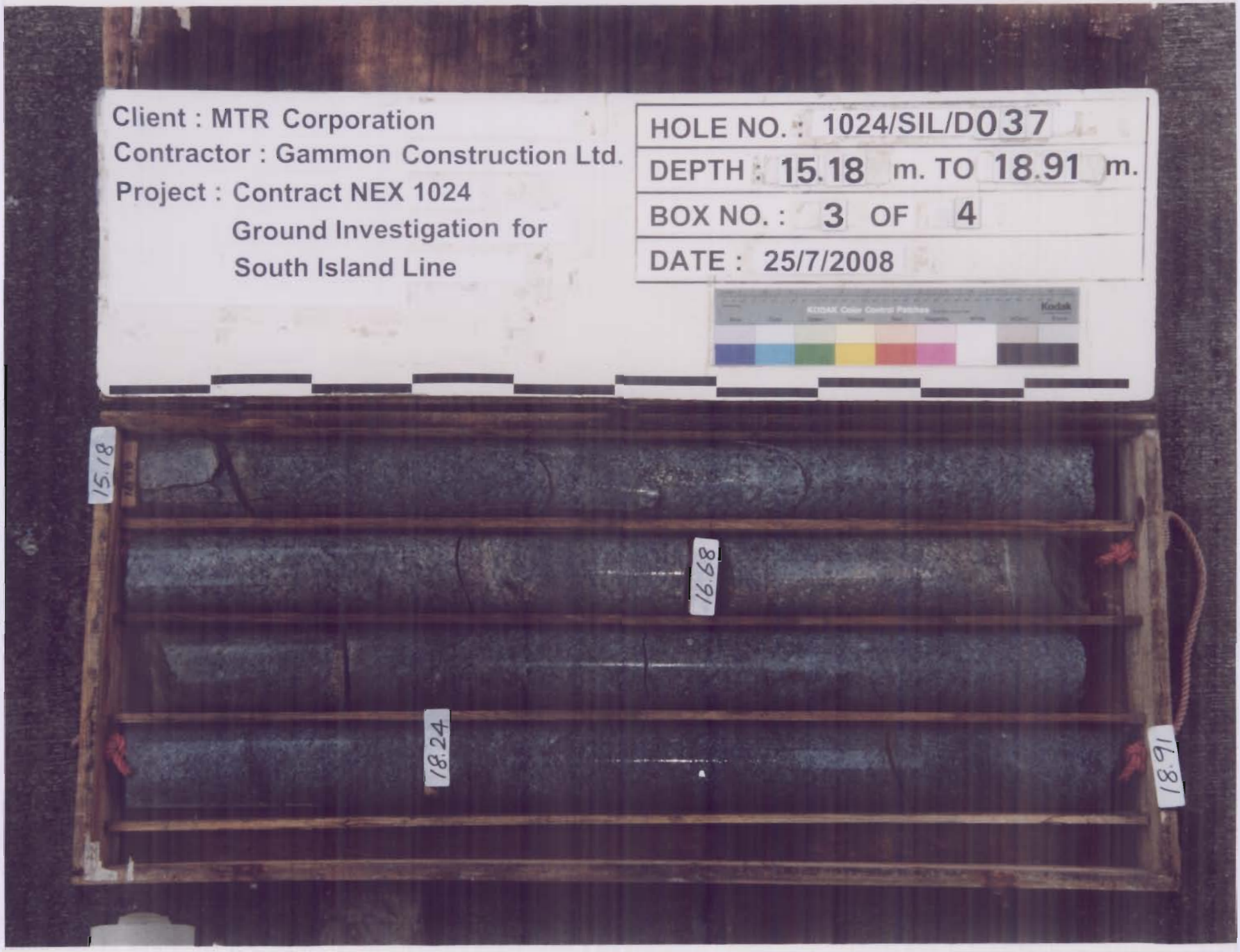



Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024 Ground Investigation for South Island Line
Hole No. : 1024/SIL/D036 A
Depth :(29.38) m. To 33.01 m.
Box No. : 7 of 8
Date of Photo : 11/10/2008
(29.38)
29.72
30.67
31.41
32.25
33.01


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D036A
Depth : 33.01 m. To 33.95 m.
Box No. : 8 of 8
Date of Photo : 11/10/2008
33.01
33.95
END


T3086-SZ6
Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D037
DEPTH : 0.00 m. TO 12.13 m.
BOX NO. : 1 OF 4
DATE : 25/7/2008
0.00
2.00
3.10
4.00
9.83
10.57
12.13
12.13


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D037
DEPTH : 12.13 m. TO 15.18 m.
BOX NO. : 2 OF 4
DATE : 25/7/2008
12.13
13.64
15.18


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D037
DEPTH : 15.18 m. TO 18.91 m.
BOX NO. : 3 OF 4
DATE : 25/7/2008
15.18
16.68
18.24
18.91


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D037
DEPTH : 18.91 m. TO 21.33 m.
BOX NO. : 4 OF 4
DATE : 25/7/2008
18.91
18.91
19.80
21.33
END


D038
Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D 038
DEPTH : 0.00 m. TO 10.50 m.
BOX NO. : 1 OF 5
DATE : 4/9/2008
0.00
2.80
4.00
5.00
5.50
9.00
10.50


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D 038
DEPTH : 10.50 m. TO 17.00 m.
BOX NO. : 2 OF 5
DATE : 4/9/2008
10.50
12.70
13.78
14.55
15.50
17.00


D038
Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D 038
DEPTH : 17.00 m. TO 20.36 m.
BOX NO. : 3 OF 5
DATE : 4/9/2008
17.00
18.30
19.40
20.36


DC38
Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D 038
DEPTH : 20.36 m. TO 23.65 m.
BOX NO. : 4 OF 5
DATE : 4/9/2008
2036
20.36
21.00
21.80
22.80
23.65


D038
Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D 038
DEPTH : 23.65 m. TO 25.30 m.
BOX NO. : 5 OF 5
DATE : 4/9/2008
2365
2438
2530
END
10.50 - 11.50M
4-8-2008
D038 M&L CR 85

Wong Chuk Hang Estate 18-3-08 5.60M 5M

Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line

HOLE NO. :	1024/SIL/D040
DEPTH :	0.00 m. TO (9.09)m.
BOX NO. :	1 OF 4
DATE :	27/5/2008



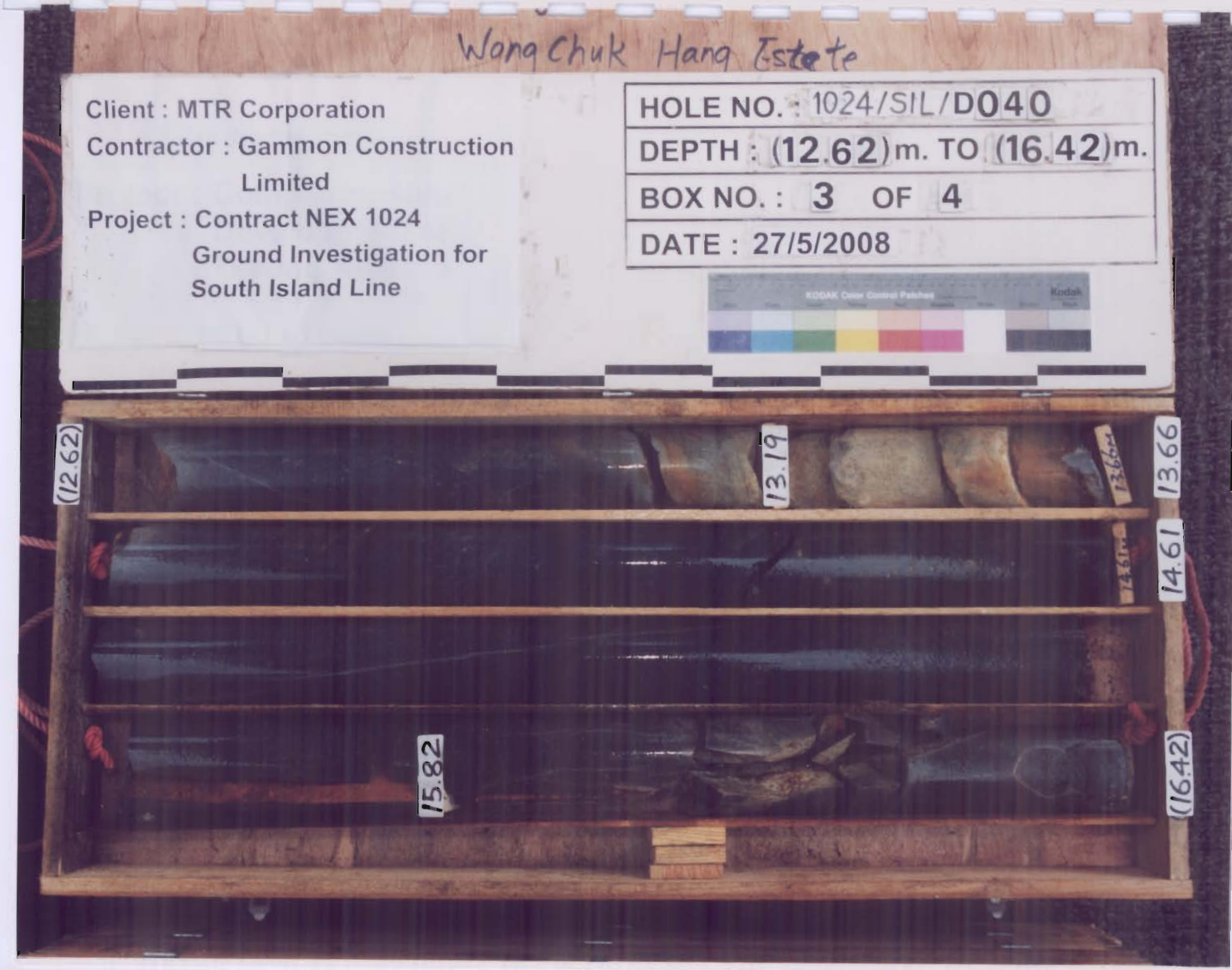


石紋: 10.85-12.35 Wong Chuk Hang Estate
Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line
HOLE NO. : 1024/SIL/D040
DEPTH : (9.09) m. TO (12.62) m.
BOX NO. : 2 OF 4
DATE : 27/5/2008
(9.09)
9.37
10.85
12.19
(12.62)

Wong Chuk Hang Estate

Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line

HOLE NO. : 1024/SIL/D040
DEPTH : (12.62)m. TO (16.42)m.
BOX NO. : 3 OF 4
DATE : 27/5/2008



Wang Chiu Fung Estate

Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line

HOLE NO. : 1024/SIL/D040
DEPTH : (16.42) m. TO 18.84 m.
BOX NO. : 4 OF 4
DATE : 27/5/2008




Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D041
Depth : 0.00 m. To (9.61) m.
Box No. : 1 of 6
Date of Photo : 11/10/2008
0.00
2.90
4.20
4.90
7.84
7.84 M
8.54
(9.61M)
(9.61)


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D041
Depth : (9.61) m. To 13.10 m.
Box No. : 2 of 6
Date of Photo : 11/10/2008
(9.61)
10.10
11.47
12.38
13.10


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D041
Depth : 13.10 m. To (16.67) m.
Box No. : 3 of 6
Date of Photo : 11/10/2008
13.10
14.63
16.13
(16.67)


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D041
Depth : (16.67) m. To 20.14 m.
Box No. : 4 of 6
Date of Photo : 11/10/2008
(16.67)
17.56
18.70
19.15
20.14
R 19.30


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D041
Depth : 20.14 m. To (23.77) m.
Box No. : 5 of 6
Date of Photo : 11/10/2008
20.14
21.60
23.11
(23.77)


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D041
Depth : (23.77) m. To 26.09 m.
Box No. : 6 of 6
Date of Photo : 11/10/2008
(23.77)
24.60
26.09
END


Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line
HOLE NO. : 1024/SIL/D043
DEPTH : 0.00 m. TO (7.73)m.
BOX NO. : 1 OF 2
DATE : 27/5/2008
0.00
4.50
5.00
5.36
6.40
6.78
(7.73)


Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D043
DEPTH : (7.73) m. TO 10.90 m.
BOX NO. : 2 OF 2
DATE : 27/5/2008
(7.73)
8.01
8.50
8.92
9.87
10.90
END


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D044
DEPTH : 0.00 m. TO 7.10 m.
BOX NO. : 1 OF 6
DATE : 19/9/2008
0.00
2.80
3.30
4.00
5.15
6.00
6.75
7.10

D011

Client : MTR Corporation

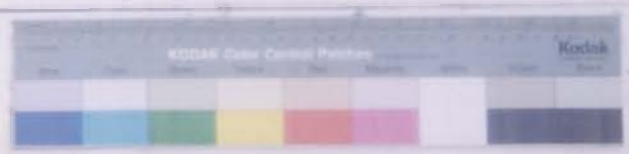
Contractor : Gammon Construction Ltd.

Project : Contract NEX 1024

Ground Investigation for

South Island Line

HOLE NO. :	1024/SIL/D044
DEPTH :	7.10 m. TO 10.55 m.
BOX NO. :	2 OF 6
DATE :	19/9/2008




D044
Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D044
DEPTH : 10.55 m. TO 14.33 m.
BOX NO. : 3 OF 6
DATE : 19/9/2008
10.55
11.55
12.06
12.80
13.67
14.33

D044 Ip : 14.80m - 16.30m

Client : MTR Corporation

Contractor : Gammon Construction Ltd.

Project : Contract NEX 1024

Ground Investigation for

South Island Line

HOLE NO. :	1024/SIL/D044
DEPTH :	14.33 m. TO (17.90)m.
BOX NO. :	4 OF 6
DATE :	19/9/2008




D044
Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D044
DEPTH : (17.90) m. TO 21.34 m.
BOX NO. : 5 OF 6
DATE : 19/9/2008
(17.90)
18.73
19.49
20.47
21.34


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D044
DEPTH : 21.34 m. TO 22.67 m.
BOX NO. : 6 OF 6
DATE : 19/9/2008
21.34
21.74
22.17
22.67
END

HOLE NO. D045

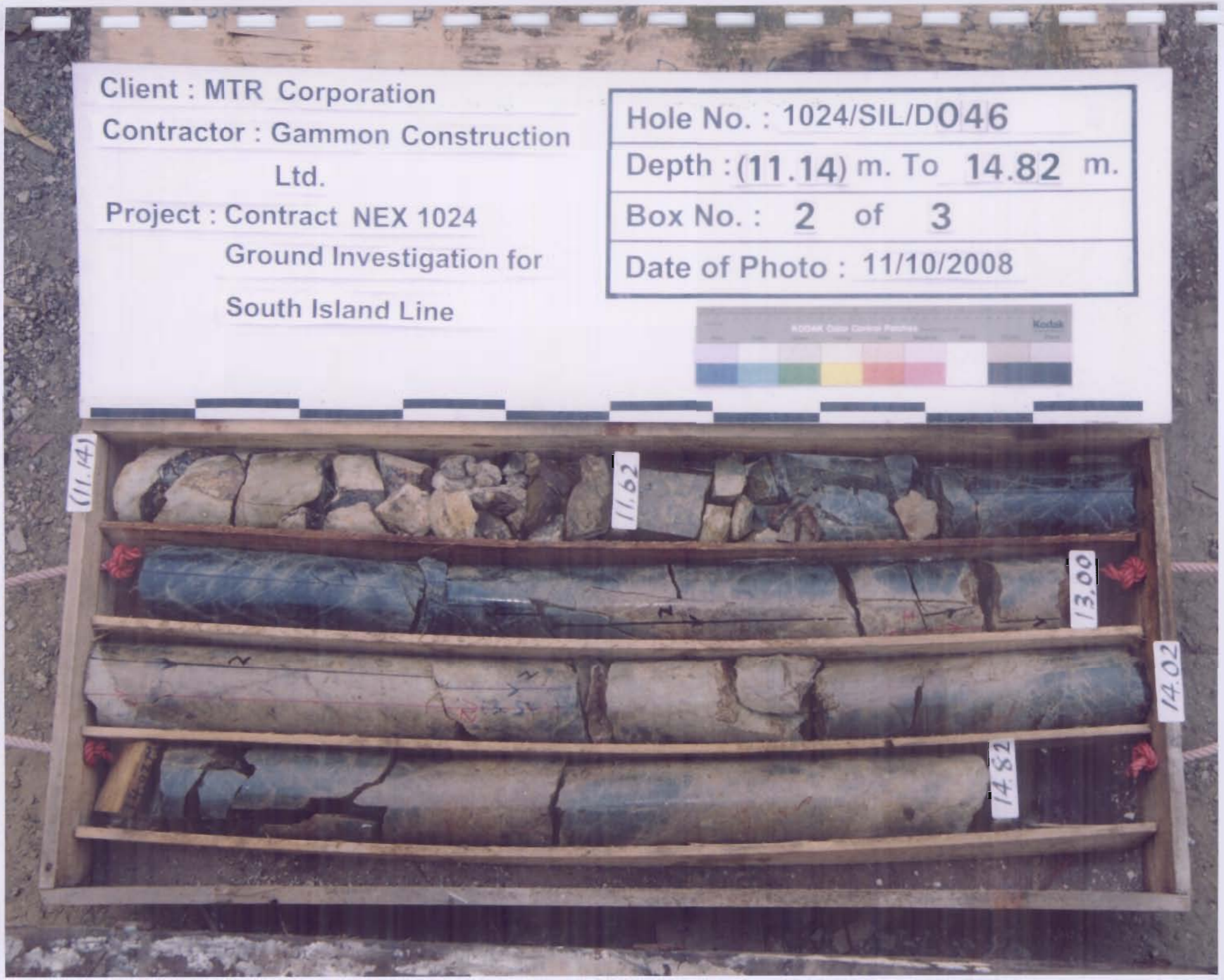
Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024
Ground Investigation for
South Island Line

HOLE NO. :	1024/SIL/D045
DEPTH :	0.00 m. TO (5.44)m.
BOX NO. :	1 OF 2
DATE :	27/5/2008




HOLE NO. : 1024/SIL/D045
DEPTH : (5.44) m. TO 8.49 m.
BOX NO. : 2 OF 2
DATE : 27/5/2008
Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line
(5.44)
5.88
7.29
8.49 END


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D046
Depth : 0.00 m. To (11.14) m.
Box No. : 1 of 3
Date of Photo : 11/10/2008
0.00
3.00
6.00
9.20
9.72m
9.97
10.74
(11.14)
4.50
7.50


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D046
Depth : (11.14) m. To 14.82 m.
Box No. : 2 of 3
Date of Photo : 11/10/2008
(11.14)
11.62
13.00
14.02
14.82


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D046
Depth : 14.82 m. To 16.80 m.
Box No. : 3 of 3
Date of Photo : 11/10/2008
14.82
15.51
16.80 END


Wong Chuk Hang Estate 石紋 14.0m to 15.50m
Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line
HOLE NO. : 1024/SIL/D048
DEPTH : 0.00 m. TO (13.37)m.
BOX NO. : 1 OF 4
DATE : 27/5/2008
0.00
3.70
4.10
11.23
12.77
(13.37)

Wong Chuk Hang Estate 13/3/08 8.00m 490m

Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line

HOLE NO. :	1024/SIL/D048
DEPTH :	(13.37) m. TO 16.57 m.
BOX NO. :	2 OF 4
DATE :	27/5/2008



Wong Chuk Hang Estate

Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line

HOLE NO. :	1024/SIL/D048
DEPTH :	16.57 m. TO (20.08) m.
BOX NO. :	3 OF 4
DATE :	27/5/2008



Wong Chuk Hang Estate

Client : MTR Corporation
Contractor : Gammon Construction Limited
Project : Contract NEX 1024 Ground Investigation for South Island Line

HOLE NO. : 1024/SIL/D048
DEPTH : (20.08) m. TO 21.30 m.
BOX NO. : 4 OF 4
DATE : 27/5/2008




Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D039
Depth : 0.00 m. To 13.76 m.
Box No. : 1 of 4
Date of Photo : 11/10/2008
0.00
3.00
4.50
4.70
5.70
6.80
8.00
8.70
10.00
10.60
11.60
12.76
12.76
13.76


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D039
Depth : 13.76 m. To 17.26 m.
Box No. : 2 of 4
Date of Photo : 11/10/2008
13.76
14.68
16.00
17.26

Client : MTR Corporation

Contractor : Gammon Construction Ltd.

Project : Contract NEX 1024
Ground Investigation for
South Island Line

Hole No. :	1024/SIL/D039
Depth :	17.26 m. To 20.85 m.
Box No. :	3 of 4
Date of Photo :	11/10/2008




Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D039
Depth : 20.85 m. To 23.34 m.
Box No. : 4 of 4
Date of Photo : 11/10/2008
20.55
22.30
23.34
END


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D042
DEPTH : 0.00 m. TO 11.86 m.
BOX NO. : 1 OF 5
DATE : 28/8/2008
0.00
3.00
4.00
4.90
10.10
10.94
10.94
11.86


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D042
DEPTH : 11.86 m. TO 15.30 m.
BOX NO. : 2 OF 5
DATE : 28/8/2008
11.86
12.96
14.08
15.30


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D042
DEPTH : 15.30 m. TO 18.98 m.
BOX NO. : 3 OF 5
DATE : 28/8/2008
15.30
16.22
17.22
18.10
18.98


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D042
DEPTH : 18.98 m. TO (22.40)m.
BOX NO. : 4 OF 5
DATE : 28/8/2008
18.98
19.83
20.72
22.15
(22.40)


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
HOLE NO. : 1024/SIL/D042
DEPTH : (22.40) m. TO 23.40 m.
BOX NO. : 5 OF 5
DATE : 28/8/2008
(22.40)
23.40
END


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D047
Depth : 0.00 m. To 6.48 m.
Box No. : 1 of 5
Date of Photo : 11/10/2008
0.00
2.00
2.20
3.30
4.14
5.30
6.48


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D047
Depth : 6.48 m. To 10.49 m.
Box No. : 2 of 5
Date of Photo : 11/10/2008
6.48
7.12
8.43
9.68
10.49


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D047
Depth : 10.49 m. To 14.12 m.
Box No. : 3 of 5
Date of Photo : 11/10/2008
10.49
11.31
12.38
13.29
14.12


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D047
Depth : 14.12 m. To 17.62 m.
Box No. : 4 of 5
Date of Photo : 11/10/2008
14.12
15.38
16.28
17.62


Client : MTR Corporation
Contractor : Gammon Construction Ltd.
Project : Contract NEX 1024
Ground Investigation for
South Island Line
Hole No. : 1024/SIL/D047
Depth : 17.62 m. To 18.94 m.
Box No. : 5 of 5
Date of Photo : 11/10/2008
17.62
18.32
18.94
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/130
Depth : 0.00 m. To (8.58) m.
Box No. 1 of 2
Date of Photograph 04-02-2012
0.00M
1.50M
3.16M
5.36M
R.H
5.36m
6.08M
6.76M
8.27M
(8.58M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/30
Depth : (8.58) m. To 11.48 m.
END
Box No. 2 of 2
Date of Photograph 04-02-2012
(8.58m)
10.78m
11.48m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/131
Depth : 0.00 m. To (7.18) m.
Box No. 1 of 2
Date of Photograph 04-02-2012
0.00M
1.50M
3.40M
4.70M
5.70M
6.17M
(7.18M)
RH
6.17m


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW131
Depth : (7.18) m. To 11.61 m.
END
Box No. 2 of 2
Date of Photograph 04-02-2012
(7.18M)
7.30M
8.52M
9.44M
10.51M
11.24M
11.61M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW132
Depth : 0.00 m. To 9.75 m.
Box No. 1 of 2
Date of Photograph 14-01-2012
0.00M
2.50M
3.40M
7.28M
8.43M
9.75M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW132
Depth : 9.75 m. To 13.31 m.
END
Box No. 2 of 2
Date of Photograph 14-01-2012
9.75M
11.14M
12.20M
13.31M
END

MTR/903-SIL (E)

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW 133

Depth : 0.00 m. To 8.62 m.

Box No. 1 of 2

Date of Photograph 02-02-2012



MTR1903-SIL(E)

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW133

Depth : 8.62 m. To 12.07 m.
END

Box No. 2 of 2

Date of Photograph 02-02-2012




MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW134
Depth : 0.00 m. To 9.11 m.
Box No. 1 of 3
Date of Photograph 01-02-2012
0.00M
1.50M
5.62M
6.42M
7.29M
7.80M
8.49M
9.11M

MTR/703-SIL(E)

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW134

Depth : 9.11 m. To (12.85) m.

Box No. 2 of 3

Date of Photograph 01-02-2012



MTR/903-SIL(E)

MTR

TYSAN
GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW134

Depth : (12.85) m. To 13.71 m.
END

Box No. 3 of 3

Date of Photograph 01-02-2012




MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 135
Depth : 0.00 m. To 8.69 m.
Box No. 1 of 3
Date of Photograph 18-01-2012
0.00M
1.50M
2.30M
2.30M
6.17M
7.29M
7.29M
8.69M

MTR1903-SIL(E)

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW135

Depth : 8.69 m. To 12.22 m.

Box No. 2 of 3

Date of Photograph 18-01-2012




MTR1903-SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW135
Depth : 1222 m. To 1407 m.
END
Box No. 3 of 3
Date of Photograph 18-01-2012
1222M
1311M
1407M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW136
Depth : 0.00 m. To (13.21) m.
Box No. 1 of 2
Date of Photograph 14-01-2012
0.00M
1.50M
3.50M
3.90M
10.23M
11.03M
11.03M
11.26M
12.74M
(13.21M)

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW136

Depth : (13.21) m. To 16.54 m. END

Box No. 2 of 2

Date of Photograph 14-01-2012




MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW137
Depth : 0.00 m. To 12.76 m.
Box No. 1 of 2
Date of Photograph 14-01-2012
0.00M
1.50M
2.71M
3.53M
10.22M
10.82M
11.77M
12.76M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/137
Depth : 12.76 m. To 16.35 m.
END
Box No. 2 of 2
Date of Photograph 14-01-2012
12.76M
14.19M
15.48M
15.84M
16.35M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/138
Depth : 0.00 m. To (10.81) m.
Box No. 1 of 2
Date of Photograph 18-01-2012
0.00M
1.50M
7.12M
7.84M
9.00M
9.92M
(10.81M)

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW138

Depth : (10.81) m. To 15.00 m.

Box No. 2 of 2 END

Date of Photograph 18-01-2012




MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW139
Depth : 0.00 m. To 7.59 m.
Box No. 1 of 3
Date of Photograph 14-01-2012
0.00M
1.50M
2.35M
2.96M
3.86M
5.53M
6.73M
7.59M
PD/NRW-139


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW139
Depth : 7.59 m. To (11.49) m.
Box No. 2 of 3
Date of Photograph 14-01-2012
7.59M
8.37M
9.13M
10.52M
(11.49M)
2.23M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW139
Depth : (11.49) m. To 14.46 m.
END.
Box No. 3 of 3
Date of Photograph 14-01-2012
(11.49M)
12.02M
13.00M
13.29M
14.46M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 140
Depth : 0.00 m. To (7.88) m.
Box No. 1 of 2
Date of Photograph 18-01-2012
0.00M
1.50M
2.70M
3.50M
6.01M
6.91M
(7.88M)

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD1 NRW 140

Depth : (7.88) m. To 12.09 m.
END

Box No. 2 of 2

Date of Photograph 18-01-2012




MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 141
Depth : 0.00 m. To (8.06) m.
Box No. 1 of 3
Date of Photograph 18-01-2012
0.00M
1.50M
1.90M
3.70M
5.40M
5.55M
6.20M
7.51M
(8.06M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 141
Depth : (8.06) m. To 11.38 m.
Box No. 2 of 3
Date of Photograph 18-01-2012
(8.06M
8.47M
9.99M
11.38M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW141
Depth : 11.38 m. To 12.68 m.
END
Box No. 3 of 3
Date of Photograph 18-01-2012
11.38m
12.68m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 142
Depth : 0.00 m. To (8.05) m.
Box No. 1 of 3
Date of Photograph 02-02 -2012
0.00M
1.50M
2.98M
3.49M
3.99M
4.14M
5.40M
5.86M
6.18M
7.14M
(8.05)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 142
Depth : (8.05) m. To (12.55) m.
Box No. 2 of 3
Date of Photograph 02-02 -2012
(8.05M)
8.28M
8.86M
10.24M
11.72
12.00M
(12.55M)
(12.55)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW142
Depth : (12.55) m. To 13.18 m.
END
Box No. 3 of 3
Date of Photograph 02-02-2012
12.55m
12.78m
13.18m
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW143
Depth : 0.00 m. To 7.59 m.
Box No. 1 of 3
Date of Photograph 01-02-2012
1.20M
1.80M
2.20M
2.72M
3.81M
4.11M
5.02M
6.57M
7.59M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW143
Depth : 7.59 m. To (12.02) m.
Box No. 2 of 3
Date of Photograph 01-02-2012
7.59M
8.66M
9.68M
11.16M
(12.02M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW143
Depth : (12.02) m. To 12.57 m.
END
Box No. 3 of 3
Date of Photograph 01-02-2012
(12.02m)
12.57m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 144
Depth : 0.00 m. To 8.57 m.
Box No. 1 of 2
Date of Photograph 04-02-2012
0.00M
1.50M
2.83M
3.33M
6.06M
7.25M
8.57M


PROJECT: MTR903/S1 (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 144
Depth : 8.57 m. To 11.80 m.
END
Box No. 2 of 2
Date of Photograph 04-02-2012
8.57M
9.68M
10.28M
11.80M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW145
Depth : 0.00 m. To 9.29 m.
Box No. 1 of 2
Date of Photograph 09-02-2012
0.00M
1.50M
3.02M
3.57M
6.54M
R H
6.54m
7.85M
9.29M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW145
Depth : 9.29 m. To 12.12 m.
END
Box No. 2 of 2
Date of Photograph 09-02-2012
9.29M
9.76M
11.07M
12.12
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 146
Depth : 0.00 m. To (9.09) m.
Box No. 1 of 3
Date of Photograph 02-02 -2012
0.00M
2.10M
2.80M
6.78M
R-1
6.78m
9.25M
(9.09M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 146
Depth : (9.09) m. To (12.37) m.
Box No. 2 of 3
Date of Photograph 02-02 -2012
(9.09M)
9.66M
11.13M
(12.37M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW146
Depth : (12.37) m. To 14.00 m.
END
Box No. 3 of 3
Date of Photograph 02-02-2012
(12.37)
12.50
14.00m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW147
Depth : 0.00 m. To (8.84) m.
Box No. 1 of 3
Date of Photograph 01-02-2012
0.00M
2.30M
3.40M
6.60M
8.05M
(8.84M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW147
Depth : (8.84) m. To (12.15) m.
Box No. 2 of 3
Date of Photograph 01-02-2012
(8.84M)
9.57M
11.08M
(12.15M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW147
Depth : (12.15) m. To 13.47 m.
END
Box No. 3 of 3
Date of Photograph 01-02-2012
(12.15m)
12.58m
13.47m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 148
Depth : 0.00 m. To (5.19) m.
Box No. 1 of 3
Date of Photograph 04-02-2012
0.00M
1.70M
2.20M
2.70M
3.95M
4.85M
(5.19M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 148
Depth : (5.19) m. To (9.78) m.
Box No. 2 of 3
Date of Photograph 04-02-2012
(5.19M)
5.80M
6.88M
7.56M
9.09M
(9.78M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW149
Depth : 0.00 m. To 7.99 m.
Box No. 1 of 3
Date of Photograph 04-02-2012
0.00M
1.90M
2.40M
2.80M
3.60M
5.00M
6.59M
7.99M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW149
Depth : 7.99 m. To (11.62) m.
Box No. 2 of 3
Date of Photograph 04-02-2012
7.99M
9.28M
10.44M
(11.62M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW149
Depth : (11.62) m. To 12.01 m.
END
Box No. 3 of 3
Date of Photograph 04-02-2012
(11.62m)
12.01
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW150
Depth : 0.00 m. To 9.05 m.
Box No. 1 of 2
Date of Photograph 02-02-2012
0.00M
2.00M
3.20M
3.50M
7.16M
R.H
7.16
8.27M
9.05M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW150
Depth : 9.05 m. To 12.76 m.
END
Box No. 2 of 2
Date of Photograph 02-02-2012
9.05M
10.62M
12.10M
12.76M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 151
Depth : 0.00 m. To (9.72) m.
Box No. 1 of 2
Date of Photograph 01-02-2012
0.00M
2.50M
3.50M
7.21M
7.16M
8.72M
(9.72M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 151
Depth : (9.72) m. To 13.28 m.
END
Box No. 2 of 2
Date of Photograph 01-02-2012
(9.72)
10.01M
11.57M
12.35M
13.28M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW152
Depth : 0.00 m. To 8.68 m.
Box No. 1 of 2
Date of Photograph 21-01-2012
0.00M
1.50M
2.80M
3.80M
6.10M
6.54M
7.44M
8.68M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW152
Depth : 8.68 m. To 13.04 m.
END
Box No. 2 of 2
Date of Photograph 21-01-2012
8.68M
10.10M
10.61M
11.74M
12.30M
13.04M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW153
Depth : 0.00 m. To (7.64) m.
Box No. 1 of 2
Date of Photograph 14-01-2012
0.00M
1.50M
1.65M
1.95M
2.15M
2.50M
3.10M
4.80M
5.40M
6.86M
(7.64M)
(7.64M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW153
Depth : (7.64) m. To 10.82 m.
END
Box No. 2 of 2
Date of Photograph 14-01-2012
(7.64M)
(7.64M)
8.32M
9.79M
10.82M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW154
Depth : 0.00 m. To 7.00 m.
Box No. 1 of 2
Date of Photograph 14-01-2012
0.00M
1.50M
2.56M
2.76M
3.42M
3.75M
4.07M
5.52M
7.00M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW154
Depth : 7.00 m. To 9.41 m.
END
Box No. 2 of 2
Date of Photograph 14-01-2012
7.00M
8.16M
9.41M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW155
Depth : 0.00 m. To (7.10) m.
Box No. 1 of 2
Date of Photograph 18-01-2012
0.00M
1.50M
3.03M
3.36M
4.22M
5.10M
6.54M
(7.10M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 155
Depth : (7.10) m. To 9.40M m.
END
Box No. 2 of 2
Date of Photograph 18-01-2012
(7.10M)
7.97M
9.40M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW156
Depth : 0.00 m. To 5.90 m.
Box No. 1 of 2
Date of Photograph 14-01-2012
0.00M
1.36M
2.14M
3.05M
4.02M
5.53M
5.90M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW156
Depth : 5.90 m. To 9.90 m.
END
Box No. 2 of 2
Date of Photograph 14-01-2012
5.90M
7.09M
8.41M
9.90M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW157
Depth : 0.00 m. To (4.96) m.
Box No. 1 of 2
Date of Photograph 18-01-2012
0.00m
1.80m
2.74m
4.12m
(4.96m)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW157
Depth : (4.96) m. To 8.52 m.
END
Box No. 2 of 2
Date of Photograph 18-01-2012
(4.96M)
5.35M
6.35M
7.46M
8.52M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW158
Depth : 0.00 m. To (6.01) m.
Box No. 1 of 2
Date of Photograph 14-01-2012
0.00M
1.00M
1.40M
1.65M
1.95M
2.49M
3.53M
5.05M
(6.01M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW158
Depth : (6.01) m. To 9.63 m.
END
Box No. 2 of 2
Date of Photograph 14-01-2012
(6.01M)
6.57M
8.09M
9.63M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 159
Depth : 0.00 m. To 6.47 m.
Box No. 1 of 2
Date of Photograph 11-1-2012
0.00M
1.50M
2.12M
3.40M
4.93M
6.47M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW159
Depth : 6.47 m. To 10.99 m.
END
Box No. 2 of 2
Date of Photograph 11-1-2012
6.47M
8.01M
9.53M
10.99M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD1 NRW 160
Depth : 0.00 m. To 5.29 m.
Box No. 1 of 2
Date of Photograph 18-01-2012
0.00M
1.50M
1.93M
2.49M
3.46M
3.96M
5.29M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/160
Depth : 5.29 m. To 9.96 m.
END
Box No. 2 of 2
Date of Photograph 18-01-2012
5.29M
6.43M
7.81M
9.33M
9.96M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 161
Depth : 0.00 m. To (6.11m) m.
Box No. 1 of 3
Date of Photograph 18-01-2012
0.00M
1.50M
2.50M
3.00M
3.50M
4.44M
4.44m
5.70M
(6.11m)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/161
Depth : (6.11M) m. To (9.65M) m.
Box No. 2 of 3
Date of Photograph 18-01-2012
(6.11M)
7.25M
8.37M
9.06M
(9.65M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD1 NRW 161
Depth : (9.65M) m. To 10.08 m.
END
Box No. 3 of 3
Date of Photograph 18-01-2012
(9.65M)
10.08M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW162
Depth : 0.00 m. To (9.14) m.
Box No. 1 of 3
Date of Photograph 21-01-2012
0.00M
1.50M
1.60M
2.50M
3.25M
3.90M
6.81M
PD/NRW162
7.30m
R.H.
8.23M
(9.14M)

MTR

TYSAN
GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW/162

Depth : (9.14) m. To 12.66 m.

Box No. 2 of 3

Date of Photograph 21-01-2012




MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/162
Depth : 12.66 m. To 14.19M m.
END
Box No. 3 of 3
Date of Photograph 21-01-2012
12.66M
14.19M
END

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD1 NRW 163

Depth : 0.00 m. To 9.75 m.

Box No. 1 of 3

Date of Photograph 18-01-2012



MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW/163

Depth : 9.75 m. To (13.25) m.

Box No. 2 of 3

Date of Photograph 18-01-2012




MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD1 NRW 163
Depth : (13.25) m. To 15.69 m.
END
Box No. 3 of 3
Date of Photograph 18-01-2012
(13.25m)
14.25m
15.69m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD1 NRW 164
Depth : 0.00 m. To 8.89 m.
Box No. 1 of 3
Date of Photograph 18-01-2012
0.00M
1.50M
2.30M
3.50M
3.83M
6.63M
7.89M
8.89M


MTR/903-SIC(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW/164
Depth : 8.89 m. To 13.27 m.
Box No. 2 of 3
Date of Photograph 18-01-2012
8.89M
10.14M
10.72M
11.25M
12.06M
RH 12.06M
13.27M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD1/NRW164
Depth : 13.27 m. To 17.25M m.
END
Box No. 3 of 3
Date of Photograph 18-01-2012
13.27M
14.75M
16.74M
16.25M
17.25M
END

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW 165

Depth : 0.00 m. To (11.06) m.

Box No. 1 of 3

Date of Photograph 11-1-2012




MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW165
Depth : (11.06) m. To (14.47) m.
Box No. 2 of 3
Date of Photograph 11-1-2012
(11.06M)
12.23M
12.95M
13.57M
(14.47M)

MTR/903-SIL(EL)

MTR

TYSAN GEOTECHNICAL LIMITED

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

Hole No. : PD/NRW165

Depth : (14.47) m. To 16.04 m.
END

Box No. 3 of 3

Date of Photograph 11-1-2012



MTR

CONTRACT NO.: 903

PROJECT: SOUTH ISLAND LINE (EAST)

TYSAN GEOTECHNICAL LIMITED

Hole No. : PD/NRW166

Depth : 0.00 m. To 12.80 m.

Box No. 1 of 2

Date of Photograph 11-1-2012




MTR/903-SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW166
Depth : 12.80 m. To 14.70 m.
END
Box No. 2 of 2
Date of Photograph 11-1-2012
12.80M
13.90M
14.70M
END

PD/NRW-001


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-001
Depth : 0.00 m. To (13.30) m.
Box No. : 1 of 3
Date of Photograph . 11-08-2011
0.00
0.50
1.50
2.50
3.50
4.80
10.82
11.40
12.89
(13.30)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-001
Depth : (13.30) m. To (17.07) m.
Box No. : 2 of 3
Date of Photograph . 11-08-2011
(13.30)
14.26
15.81
(17.07)

PD/NRW-001


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-001
Depth : (17.07) m. To 19.78 m.
Box No. : 3 of 3
Date of Photograph . 11-08-2011
(17.07)
17.35
18.81
19.78
END

PD/NRW-073


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-073
Depth : 0.00 m. To 7.77 m.
Box No. : 1 of 4
Date of Photograph . 10-08-2011
0.00
0.42
1.50
1.80
3.30
4.10
5.60
5.90
6.50
7.18
7.77


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-073
Depth : 7.77 m. To (11.30) m.
Box No. : 2 of 4
Date of Photograph . 10-08-2011
7.77
8.75
9.37
10.79
(11.30)

PD/NRW-073


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-073
Depth : (11.30) m. To 14.64 m.
Box No. : 3 of 4
Date of Photograph . 10-08-2011
(11.30)
11.92
13.37
13.77
14.64


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-073
Depth : 14.64 m. To 16.10 m.
Box No. : 4 of 4
Date of Photograph . 10-08-2011
14.64
15.47
16.10
END

PD/NRW-075


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-075
Depth : 0.00 m. To (8.81) m.
Box No. : 1 of 3
Date of Photograph . 10-08-2011
0.00
1.20
1.40
2.00
2.10
2.90
3.54
4.30
4.65
4.85
5.02
5.09
5.49
8.15
(8.81)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-075
Depth : (8.81) m. To 12.34 m.
Box No. : 2 of 3
Date of Photograph . 10-08-2011
G.L +4.47 mPD
(8.81)
9.65
10.95
12.34

PD/NRW-075


G.L+4.42mPD
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-075
Depth : 12.34 m. To 15.77 m.
Box No. : 3 of 3
Date of Photograph . 10-08-2011
12.34
13.57
14.96
15.77
END

PD/NRW-075A


Project No MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-075A
Depth : 0.00 m. To 10.83 m.
Box No. : 1 of 2
Date of Photograph 04-11-2011
0.00
4.30
4.80
9.03
9.90
10.83


Project No MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-075A
Depth : 10.83 m. To 14.34 m.
Box No. : 2 of 2
Date of Photograph 04-11-2011
10.83
12.13
13.48
14.34
END

PD/NRW-077


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-077
Depth : 0.00 m. To 9.64 m.
Box No. : 1 of 3
Date of Photograph . 09-08-2011
0.00
1.30
1.60
1.80
2.40
2.84
3.44
4.04
4.84
8.54
9.64


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-077
Depth : 9.64 m. To (13.13) m.
Box No. : 2 of 3
Date of Photograph . 09-08-2011
9.64
10.91
12.37
(13.13)

PD/NRW-077


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-077
Depth : (13.13) m. To 14.83 m.
Box No. : 3 of 3
Date of Photograph . 09-08-2011
(13.13)
13.73
14.83 END

PD/NRW-079


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-079
Depth : 0.00 m. To (8.67) m.
Box No. : 1 of 3
Date of Photograph . 09-08-2011
0.00
1.57
2.47
3.27
4.03
7.21
7.53
(8.67)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-079
Depth : (8.67) m. To 12.11 m.
Box No. : 2 of 3
Date of Photograph . 09-08-2011
(8.67)
RH 8.8m
9.04
10.53
11.44
12.11

PD/NRW-079


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-079
Depth : 12.11 m. To 14.82 m.
Box No. : 3 of 3
Date of Photograph . 09-08-2011
12.11
13.61
14.82
END

PD/NRW-081


G.L+4.60mPD
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-081
Depth : 0.00 m. To 10.18 m.
Box No. : 1 of 3
Date of Photograph . 08-08-2011
0.00
1.25
1.60
6.50
7.30
8.22
8.94
10.18


G.L+4.60mPD
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-081
Depth : 10.18 m. To 13.71 m.
Box No. : 2 of 3
Date of Photograph . 08-08-2011
10.18
10.49
11.63
12.74
13.71

PD/NRW-081


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-081
Depth : 13.71 m. To 15.01 m.
Box No. : 3 of 3
Date of Photograph . 08-08-2011
13.71
14.24
15.01
END

PD/NRW-083


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-083
Depth : 0.00 m. To (4.92) m.
Box No. : 1 of 4
Date of Photograph . 10-08-2011
0.00
1.00
1.70
1.96
2.28
3.64
(4.92)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-083
Depth : (4.92) m. To (8.45) m.
Box No. : 2 of 4
Date of Photograph . 10-08-2011
(4.92)
5.20
6.67
7.62
8.06
(8.45)

PD/NRW-083


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-083
Depth : (8.45) m. To 12.03 m.
Box No. : 3 of 4
Date of Photograph . 10-08-2011
(8.45)
9.12
9.63
10.40
10.90
12.03


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-083
Depth : 12.03 m. To 14.49 m.
Box No. : 4 of 4
Date of Photograph . 10-08-2011
12.03
12.63
13.79
14.49
END

PD/NRW-084


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-084
Depth : 0.00 m. To (7.55) m.
Box No. : 1 of 4
Date of Photograph . 09-08-2011
0.00
3.71
4.35
4.70
P.h. 4.70m
4.93
6.45
(7.55)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-084
Depth : (7.55) m. To 11.00 m.
Box No. : 2 of 4
Date of Photograph . 09-08-2011
(7.55)
7.90
8.81
9.53
10.22
11.00

PD/NRW-084


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-084
Depth : 11.00 m. To (14.37) m.
Box No. : 3 of 4
Date of Photograph . 09-08-2011
11.00
11.68
12.14
12.64
13.24
13.59
13.92
(14.37)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-084
Depth : (14.37) m. To 14.80 m.
Box No. : 4 of 4
Date of Photograph . 09-08-2011
(14.37)
14.80
END

PD/NRW-084A


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-084A
Depth : 0.00 m. To 8.09 m.
Box No. : 1 of 3
Date of Photograph . 09-08-2011
0.00
4.54
5.98
7.41
8.09


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-084A
Depth : 8.09 m. To (11.50) m.
Box No. : 2 of 3
Date of Photograph . 09-08-2011
8.09
8.88
9.71
10.40
(11.50)

PD/NRW-084A


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-084A
Depth : (11.50) m. To 13.72 m.
Box No. : 3 of 3
Date of Photograph . 09-08-2011
(11.50)
11.57
12.10
13.11
13.72
END

PD/NRW-102


PROJECT NIAME: MTR 903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-102
Depth : 0.00 m. To 5.10 m.
Box No. : 1 of 3
Date of Photograph . 05-08-2011
0.00
0.50
0.80
1.30
1.90
2.30
2.90
3.45
3.80
4.40
5.10


PROJECT NIAME: MTR 903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-102
Depth : 5.10 m. To (15.42) m.
Box No. : 2 of 3
Date of Photograph . 05-08-2011
5.10
11.68
13.07
14.57
(15.42)

PD/NRW-102


PROJECT NAME MTR 903 KIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-102
Depth : (15.42) m. To 18.00 m.
Box No. : 3 of 3
Date of Photograph . 05-08-2011
(15.42)
15.93
16.93
18.00
END

PD/NRW-103


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-103
Depth : 0.00 m. To 14.37 m.
Box No. : 1 of 3
Date of Photograph . 05-08-2011
0.00
0.50
1.70
3.00
4.20
7.40
8.00
12.45
13.41
14.37


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-103
Depth : 14.37 m. To 18.06 m.
Box No. : 2 of 3
Date of Photograph . 05-08-2011
14.37
15.10
16.56
18.06

PD/NRW-103


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-103
Depth : 18.06 m. To 19.51 m.
Box No. : 3 of 3
Date of Photograph . 05-08-2011
18.06
19.51
END

PD/NRW-110


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-110
Depth : 0.00 m. To 7.28 m.
Box No. : 1 of 2
Date of Photograph . 15-10-2011
0.00
0.60
1.95
4.19
R.H
4.19M
4.69
5.62
6.37
7.28


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-110
Depth : 7.28 m. To 10.54 m.
Box No. : 2 of 2
Date of Photograph . 15-10-2011
7.28
7.91
9.31
9.82
10.54
END

PD/NRW-111


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-111
Depth : 0.00 m. To 6.62 m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.60
1.90
3.53
3.79
4.50
5.63
6.62


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-111
Depth : 6.62 m. To 9.63 m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
6.62
7.53
8.71
9.63

PD/NRW-111


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-111
Depth : 9.63 m. To 11.06 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
9.63
11.06
END

PD/NRW-112


PROJECT NAME = MTR903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-112
Depth : 0.00 m. To 4.53 m.
Box No. : 1 of 3
Date of Photograph . 17-10-2011
0.00
0.67
1.12
1.26
2.73
3.70
4.53


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-112
Depth : 4.53 m. To 8.17 m.
Box No. : 2 of 3
Date of Photograph . 17-10-2011
4.53
5.74
6.18
6.73
8.17

PD/NRW-112


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-112
Depth : 8.17 m. To 10.40 m.
Box No. : 3 of 3
Date of Photograph . 17-10-2011
8.17
8.17
8.65
9.78
10.40
END

PD/NRW-113


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-113
Depth : 0.00 m. To 4.44 m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.50
1.44
2.04
3.54
4.44


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-113
Depth : 4.44 m. To 7.89 m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
4.44
5.50
6.58
7.13
7.89

PD/NRW-113


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-113
Depth : 7.89 m. To 8.76 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
7.89
8.76
END

PD/NRW-114


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-114
Depth : 0.00 m. To (4.61) m.
Box No. : 1 of 2
Date of Photograph . 17-10-2011
0.00
0.30
0.80
1.52
1.72
1.72m
2.74
3.98
(4.61)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-114
Depth : (4.61) m. To 8.27 m.
Box No. : 2 of 2
Date of Photograph . 17-10-2011
(4.61)
4.76
5.68
6.41
6.84m
7.39
7.39m
8.27
END

PD/NRW-115


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-115
Depth : 0.00 m. To 6.86 m.
Box No. : 1 of 2
Date of Photograph . 15-10-2011
0.00
0.50
1.30
3.50
3.87
3.87m
5.35
6.86


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-115
Depth : 6.86 m. To 9.85 m.
Box No. : 2 of 2
Date of Photograph . 15-10-2011
6.86
7.31
8.17
9.25
9.85
END

PD/NRW-116


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-116
Depth : 0.00 m. To (4.08) m.
Box No. : 1 of 2
Date of Photograph . 05-09-2011
0.00
0.35
0.48
1.04
2.30
3.00
(4.08)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-116
Depth : (4.08) m. To 7.27 m.
Box No. : 2 of 2
Date of Photograph . 05-09-2011
(4.08)
4.36
5.27
6.31
6.71
7.27
END

PD/NRW-117


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-117
Depth : 000 m. To 6.82 m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.60
1.30
3.41
4.71
6.01
6.82
R.H
6.01


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-117
Depth : 6.82 m. To (10.41) m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
6.82
7.40
8.33
9.49
(10.41)

PD/NRW-117


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-117
Depth : (10.41) m. To 12.21 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
(10.41)
10.57
11.48
12.21
END

PD/NRW-118


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-118
Depth : 0.00 m. To 5.13 m.
Box No. : 1 of 2
Date of Photograph . 05-09-2011
0.00
0.30
0.60
1.70
2.26
3.32
4.33
5.13


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-118
Depth : 5.13 m. To 8.53 m.
Box No. : 2 of 2
Date of Photograph . 05-09-2011
4.13
6.55
7.84
8.53
END

PD/NRW-119


PROJECT NAME : MTR 903/SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-119
Depth : 0.00 m. To (5.74) m.
Box No. : 1 of 3
Date of Photograph . 17-10-2011
0.00
0.50
1.00
1.50
2.69
3.51
4.21
5.05
(5.74)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-119
Depth : (5.74) m. To (9.30) m.
Box No. : 2 of 3
Date of Photograph . 17-10-2011
(5.74)
6.22
7.43
(9.30)

PD/NRW-119


PROJECT NAME: MTR903/SIL
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-119
Depth : (9.30) m. To 9.95 m.
Box No. : 3 of 3
Date of Photograph . 17-10-2011
(9.30)
9.95
END

PD/NRW-120


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-120
Depth : 0.00 m. To (4.17) m.
Box No. : 1 of 2
Date of Photograph . 05-09-2011
0.00
0.52
0.69
1.62
2.54
(4.17)


PROJECT NAME: MTR 903 / SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-120
Depth : (4.17) m. To 6.99 m.
Box No. : 2 of 2
Date of Photograph . 05-09-2011
(4.17)
4.37
5.37
6.44
6.99
END

PD/NRW-121


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-121
Depth : 0.00 m. To (4.20) m.
Box No. : 1 of 2
Date of Photograph . 17-10-2011
0.00
0.40
0.80
R.H.
0.80m
1.72
2.62
3.38
(4.20)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-121
Depth : (4.20) m. To 7.32 m.
Box No. : 2 of 2
Date of Photograph . 17-10-2011
(4.20)
4.87
5.56
6.83
7.32
END

PD/NRW-122


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-122
Depth : 0.00 m. To (3.83) m.
Box No. : 1 of 3
Date of Photograph . 05-09-2011
0.00
0.44
0.64
1.31
2.20
2.62
3.67
(3.83)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-122
Depth : (3.83) m. To 7.34 m.
Box No. : 2 of 3
Date of Photograph . 05-09-2011
(3.83)
4.99
5.65
6.69
7.34

PD/NRW-122


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-122
Depth : 7.34 m. To 7.94 m.
Box No. : 3 of 3
Date of Photograph . 05-09-2011
7.34
7.94
END

PD/NRW-123


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-123
Depth : 0.00 m. To 4.45 m.
Box No. : 1 of 2
Date of Photograph . 15-10-2011
0.00
0.50
1.25
2.13
2.88
3.73
4.45


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-123
Depth : 4.45 m. To 7.72 m.
Box No. : 2 of 2
Date of Photograph . 15-10-2011
4.45
5.28
5.68
6.05
7.17
7.72
END

PD/NRW-124


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-124
Depth : 0.00 m. To 3.99 m.
Box No. : 1 of 3
Date of Photograph . 05-09-2011
0.00
0.36
0.49
0.76
1.53
2.43
3.60
3.99


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-124
Depth : 3.99 m. To 7.15 m.
Box No. : 2 of 3
Date of Photograph . 05-09-2011
3.99
3.99+
5.14
6.26
7.15

PD/NRW-124


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-124
Depth : 7.15 m. To 8.38 m.
Box No. : 3 of 3
Date of Photograph . 05-09-2011
7.15
7.72
8.38 END

PD/NRW-125


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-125
Depth : 0.00 m. To 4.92 m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.000
0.80
1.78
3.30
4.00
4.92


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-125
Depth : 4.92 m. To (8.48) m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
4.92
6.45
8.00
12.9
(8.48)

PD/NRW-125


MTR903/511 (3)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-125
Depth : (8.48) m. To 9.37 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
(8.48)
8.83
9.37
END

PD/NRW-126


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-126
Depth : 0.00 m. To 4.03 m.
Box No. : 1 of 3
Date of Photograph . 05-09-2011
0.00
0.46
0.76
1.52
2.04
2.53
3.47
4.03


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-126
Depth : 4.03 m. To (7.39) m.
Box No. : 2 of 3
Date of Photograph . 05-09-2011
4.03
4.98
5.63
6.91
(7.39)

PD/NRW-126


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-126
Depth : 7.39 m. To 8.59 m.
Box No. : 3 of 3
Date of Photograph . 05-09-2011
7.39
8.21
8.59 END

PD/NRW-127


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-127
Depth : 0.00 m. To 4.43 m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.96
1.16
1.66
2.63
3.63
4.43


MTR 903/SIL 3
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-127
Depth : 4.43 m. To 7.88 m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
4.43
4.88
5.98
6.93
7.88

PD/NRW-127


Proj. No.: MTR 903 /SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-127
Depth : 788 m. To 837 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
788
837
END

PD/NRW-128


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-128
Depth : 0.00 m. To (4.22) m.
Box No. : 1 of 3
Date of Photograph . 23-08-2011
0.00
0.80
1.12
2.01
3.04
3.44
(4.22)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-128
Depth : (4.22) m. To (7.83) m.
Box No. : 2 of 3
Date of Photograph . 23-08-2011
(4.22)
4.43
5.41
5.84
6.09
7.19
(7.83)

PD/NRW-128


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-128
Depth : 7.83 m. To 8.07 m.
Box No. : 3 of 3
Date of Photograph . 23-08-2011
7.83
8.07
END

PD/NRW-129A


PROJECT NAME: MTR 903 / SIL (E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-129A
Depth : 0.00 m. To 4.35 m.
Box No. : 1 of 3
Date of Photograph . 23-08-2011
0.00
0.35
1.60
2.00
3.10
3.42
3.86
4.35


MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-129A
Depth : 4.35 m. To 8.05 m.
Box No. : 2 of 3
Date of Photograph . 23-08-2011
4.35
4.64
5.78
7.03
8.05

PD/NRW-129A


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-129A
Depth : 8.05 m. To 9.15 m.
Box No. : 3 of 3
Date of Photograph . 23-08-2011
8.05
8.78
9.15
END

PD/WCH-026


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ WCH-026
Depth : 0.00 m. To 6.00 m.
Box No. : 1 of 2
Date of Photograph . 17-10-2011
0.00
0.20
0.60
2.78
2.98
R.H.
2.98m
4.48
6.00


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ WCH-026
Depth : 6.00 m. To 9.73 m.
Box No. : 2 of 2
Date of Photograph . 17-10-2011
6.00
7.51
9.02
9.73
END

PD/NRW-041


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-041
Depth : 0.00 m. To 14.97 m.
Box No. : 1 of 3
Date of Photograph . 24-08-2011
0.00
1.46
2.32
3.00
3.41
3.79
4.04
4.60
8.50
9.10
13.70
14.53
14.97


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-041
Depth : 14.97 m. To 18.33 m.
Box No. : 2 of 3
Date of Photograph . 24-08-2011
14.97
16.47
17.86
18.33

PD/NRW-041


GL: + 6.79 mPD
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-041
Depth : <18.33 m. To 21.82 m.
Box No. : 3 of 3
Date of Photograph . 24-08-2011
<18.33
19.36
20.86
21.82 END

PD/NRW-041A


GL = +6.02 mPD
-0.53
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-041A
Depth : 0.00 m. To 17.36 m.
Box No. : 1 of 2
Date of Photograph . 23-08-2011
0.00
2.00
2.64
3.12
14.74
15.33
16.12
17.36


GL = +6.02 mPD
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-041A
Depth : 17.36 m. To 21.12 m.
Box No. : 2 of 2
Date of Photograph . 23-08-2011
17.36
18.91
20.46
21.12
END

PD/NRW-045


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-045
Depth : 0.00 m. To 14.10 m.
Box No. : 1 of 4
Date of Photograph . 06-08-2011
0.00
1.62
2.15
2.50
3.95
4.37
5.70
6.00
11.29
11.69
12.22
12.85
14.10


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-045
Depth : 14.10 m. To 17.37 m.
Box No. : 2 of 4
Date of Photograph . 06-08-2011
14.10
14.88
15.49
15.87
16.63
17.37

PD/NRW-045


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-045
Depth : 17.37 m. To 20.61 m.
Box No. : 3 of 4
Date of Photograph . 06-08-2011
17.37
17.65
18.39
19.57
20.03
20.61


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-045
Depth : 20.61 m. To 22.40 m.
Box No. : 4 of 4
Date of Photograph . 06-08-2011
20.61
21.12
22.40
END

PD/NRW-048


Gl: + 5.08 MPD
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-048
Depth : 0.00 m. To 11.90 m.
Box No. : 1 of 3
Date of Photograph . 08-08-2011
0.00
1.48
1.91
2.02
8.79
9.53
11.07
11.90


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-048
Depth : 11.90 m. To (15.41) m.
Box No. : 2 of 3
Date of Photograph . 08-08-2011
11.90
12.65
14.14
(15.41)

PD/NRW-048


Gl. +5.08 mPD
-0.49
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-048
Depth : (15.41) m. To 17.25 m.
Box No. : 3 of 3
Date of Photograph . 08-08-2011
(15.41)
15.63
16.39
17.25
END

PD/NRW-051


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-051
Depth : 0.00 m. To 12.02 m.
Box No. : 1 of 3
Date of Photograph . 08-08-2011
0.00
0.50
2.00
9.52
10.30
10.55
12.02


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-051
Depth : 12.02 m. To (15.62) m.
Box No. : 2 of 3
Date of Photograph . 08-08-2011
12.02
13.12
14.64
15.62

PD/NRW-051


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-051
Depth : (15.62) m. To 18.31 m.
Box No. : 3 of 3
Date of Photograph . 08-08-2011
(15.62)
16.12
17.60
18.31
END

PD/NRW-213


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-213
Depth : 0.00 m. To (6.48) m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
0.40
1.00
1.90
2.70
3.69
3.90
4.93
6.21
(6.48)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-213
Depth : (6.48) m. To (10.10) m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
(6.48)
7.57
9.09
(10.10)

PD/NRW-213


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-213
Depth : (10.10) m. To 12.92 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 3 of 3
Date of Photograph 02-11-2011
(10.10)
10.33
11.53
12.48
12.92
END

PD/NRW-214


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-214
Depth : 0.00 m. To 8.88 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 1 of 2
Date of Photograph 02-11-2011
0.00
0.55
0.90
4.15
5.48
5.97
7.44
7.94
8.88


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-214
Depth : 8.88 m. To 12.98 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 2 of 2
Date of Photograph 02-11-2011
8.88
10.30
11.74
12.98
END

PD/NRW-215


MTR/903-SIL(Z)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-215
Depth : 0.00 m. To (9.36) m.
Box No. : 1 of 2
Date of Photograph 02-11-2011
0.00
5.93
7.31
9.07
(9.36)


MTR/903-SIL(Z)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-215
Depth : (9.36) m. To 12.49 m.
Box No. : 2 of 2
Date of Photograph 02-11-2011
(9.36)
10.48
11.88
12.49
END

PD/NRW-216


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-216
Depth : 0.00 m. To (9.21) m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
0.40
0.90
1.20
1.50
5.55
6.37
6.88
7.60
7.91
8.51
(9.21)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-216
Depth : (9.21) m. To 14.14 m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
(9.21)
9.62
10.22
11.72
12.73
14.14
PD/NRW-216

PD/NRW-216


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-216
Depth : 14.14 m. To 15.31 m.
Box No. : 3 of 3
Date of Photograph 02-11-2011
14.14
14.70
15.31
END

PD/NRW-217


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-217
Depth : 0.00 m. To (7.42) m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
0.35
1.85
2.50
5.68
R.H
5.68
6.71
(7.42)
(7.42)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-217
Depth : (7.42) m. To 10.99 m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
(7.42)
7.96
9.47
10.99

PD/NRW-217


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/ NRW-217
Depth: 10.99 m. To 12.18 m.
Box No.: 3 of 3
Date of Photograph 02-11-2011
10.99
12.18
END

PD/NRW-225


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-225
Depth : 0.00 m. To 4.67 m.
Box No. : 1 of 4
Date of Photograph 02-11-2011
0.00
0.50
1.15
1.80
3.00
3.92
4.67


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-225
Depth : 4.67 m. To (8.13) m.
Box No. : 2 of 4
Date of Photograph 02-11-2011
4.67
5.53
6.48
7.64
(8.13)

PD/NRW-225


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-225
Depth : (8.13) m. To 11.25 m.
Box No. : 3 of 4
Date of Photograph 02-11-2011
(8.13)
8.75
9.80
11.25


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-225
Depth : 11.25 m. To 13.60 m.
Box No. : 4 of 4
Date of Photograph 02-11-2011
11.25
12.63
13.60
END

PD/NRW-226


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-226
Depth : 0.00 m. To (7.59) m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
0.35
0.80
1.12
1.30
4.07
5.44
6.86
6.94
7.25
(7.59)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-226
Depth : (7.59) m. To (12.17) m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
(7.59)
7.90
9.34
10.77
11.90
(12.17)

PD/NRW-226


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-226
Depth : 12.17 m. To 14.59 m.
Box No. : 3 of 3
Date of Photograph 02-11-2011
12.17
13.41
14.59 END

PD/NRW-227


PD/NRW-227 MTR/903-SIL(E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-227
Depth : 0.00 m. To (9.53) m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
3.03
3.44
4.39
6.58
7.50
8.13
8.40
(9.53)


MTR/903-SIL(E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-227
Depth : (9.53) m. To (12.94) m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
(9.53)
9.77
10.32
11.53
12.54
(12.94)

PD/NRW-227


MTR/903-51L(7)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-227
Depth : (12.94) m. To 14.84 m.
Box No. : 3 of 3
Date of Photograph 02-11-2011
(12.94)
13.46
14.84
END

PD/NRW-228


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-228
Depth : 0.00 m. To 9.17 m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
5.78
6.84
8.23
9.17


MTR/903-S1L(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-228
Depth : 9.17 m. To 12.94 m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
9.17
9.73
11.19
12.18
12.94

PD/NRW-228


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-228
Depth : (12.94) m. To 13.86 m.
Box No. : 3 of 3
Date of Photograph 02-11-2011
(12.94)
13.08
13.86
END

PD/NRW-229


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-229
Depth: 0.00 m. To (9.04) m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 1 of 2
Date of Photograph 02-11-2011
0.00
0.43
1.05
1.41
6.09
6.28
6.61
6.94
8.44
(9.04)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-229
Depth: (9.04) m. To 12.99 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 2 of 2
Date of Photograph 02-11-2011
(9.04)
9.90
11.45
12.99
END

PD/NRW-230


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-230
Depth : 0.00 m. To (5.79) m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
0.63
1.88
2.79
4.00
5.60
(5.79)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-230
Depth : (5.79) m. To (9.64) m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
(5.79)
6.93
8.47
(9.64)

PD/NRW-230


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-230
Depth : (9.64) m. To 11.20 m.
Box No. : 3 of 3
Date of Photograph 02-11-2011
(9.64)
10.01
11.20
END

PD/VDC-017


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDC-017
Depth : 000 m. To 9.58 m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
000
0.40
0.80
4.31
4.89
5.35
7.33
7.49
8.11
9.58


MTR/903-SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDC-017
Depth : 9.58 m. To (13.48) m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
9.58
11.01
12.48
(13.48)

PD/VDC-017


MTR/903-SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-017
Depth : (13.48) m. To 15.12 m.
Box No. : 3 of 3
Date of Photograph 02-11-2011
(13.48)
13.61
15.12
END

PD/VDC-018


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/VDC-018
Depth : 0.00 m. To 11.73 m.
Box No. : 1 of 5
Date of Photograph . 06-08-2011
0.00
1.20
1.85
2.55
2.84
8.19
8.68
9.60
10.83
11.73


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/VDC-018
Depth : 11.73 m. To 15.21 m.
Box No. : 2 of 5
Date of Photograph . 06-08-2011
11.73
13.17
14.37
15.21

PD/VDC-018


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/VDC-018
Depth : 15.21 m. To 18.12 m.
Box No. : 3 of 5
Date of Photograph . 06-08-2011
15.21
16.25
17.14
18.12


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/VDC-018
Depth : 18.12 m. To 21.49 m.
Box No. : 4 of 5
Date of Photograph . 06-08-2011
18.12
18.86
19.81
20.67
21.49

PD/VDC-018


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/VDC-018
Depth : 21.49 m. To 22.71 m.
Box No. : 5 of 5
Date of Photograph . 06-08-2011
21.49
22.07
22.71
END

PD/NRW-110


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-110
PROJECT: SOUTH ISLAND LINE (EAST)
Depth : 0.00 m. To 7.28 m.
Box No. : 1 of 2
Date of Photograph . 15-10-2011
0.00
0.60
1.95
4.19
R.H
4.19M
4.69
5.62
6.37
7.28


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-110
PROJECT: SOUTH ISLAND LINE (EAST)
Depth : 7.28 m. To 10.54 m.
Box No. : 2 of 2
Date of Photograph . 15-10-2011
7.28
7.91
9.31
9.82
10.54
END

PD/NRW-111


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-111
Depth : 0.00 m. To 6.62 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.60
1.90
3.53
3.79
4.50
5.63
6.62


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-111
Depth : 6.62 m. To 9.63 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 2 of 3
Date of Photograph . 15-10-2011
6.62
7.53
8.71
9.63

PD/NRW-111


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-111
Depth : 9.63 m. To 11.06 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
9.63
11.06
END

PD/NRW-089


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-089
Depth : 0.00 m. To 10.52 m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.35
0.81
1.55
1.97
2.17
7.14
7.61
9.47
9.75
10.52


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-089
Depth : 10.52 m. To (13.75) m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
10.52
11.92
13.27
13.39
(13.75)

PD/NRW-089


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-089
Depth : (13.75) m. To 16.38 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
13.75
14.83
16.38
END

PD/WCH-039


PROJECT NAME: MTR903/SIL(E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-039
Depth : 0.00 m. To 10.07 m.
Box No. : 1 of 3
Date of Photograph 03-11-2011
0.00
0.39
0.79
1.99
7.23
7.83
8.77
8.95
10.07


PROJECT NAME: MTR903/SIL(E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-039
Depth : 10.07 m. To (13.52) m.
Box No. : 2 of 3
Date of Photograph 03-11-2011
10.07
11.40
12.87
(13.52)

PD/WCH-039


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-039
Depth : 13.52 m. To 15.68 m.
Box No. : 3 of 3
Date of Photograph 03-11-2011
13.52
14.32
15.68
END

PD/NRW-092


PROJECT NAME: MTR 903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-092
Depth: 0.00 m. To 9.57 m.
Box No.: 1 of 3
Date of Photograph 03-11-2011
0.00
0.35
1.25
1.75
7.18
7.88
8.60
9.08
9.57


PROJECT NAME: MTR 903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-092
Depth: 9.57 m. To (12.99) m.
Box No.: 2 of 3
Date of Photograph 03-11-2011
9.57
10.10
10.91
12.14
(12.99)

PD/NRW-092


PROJECTNAME: MTR903/SIL
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-092
Depth: (12.99) m. To 16.06 m.
Box No.: 3 of 3
Date of Photograph 03-11-2011
(12.99)
13.51
14.77
16.06
END

PD/WCH-036


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-036
Depth : 0.00 m. To (9.07) m.
Box No. : 1 of 3
Date of Photograph 03-11-2011
0.00
0.39
1.59
4.85
5.05
7.17
7.56
8.07
8.78
(9.07)
11.19


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-036
Depth : (9.07) m. To (12.59) m.
Box No. : 2 of 3
Date of Photograph 03-11-2011
(9.07)
11.19
12.23
(12.59)

PD/WCH-036


PROJECT NAME: MTR 903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/WCH-036
Depth: (12.59) m. To 13.92 m.
Box No.: 3 of 3
Date of Photograph 03-11-2011
(12.59)
12.99
13.92
END

PD/WCH-033


PROJECT NAME: MTR 903 SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-033
Depth : 0.00 m. To (7.55) m.
Box No. : 1 of 3
Date of Photograph 03-11-2011
0.00
0.30
0.75
0.95
1.20
1.37
1.87
5.40
5.88
6.32
6.50
(7.55)


PROJECT NAME: MTR 903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-033
Depth : (7.55) m. To (10.81) m.
Box No. : 2 of 3
Date of Photograph 03-11-2011
(7.55)
7.85
8.85
10.31
(10.81)

PD/WCH-033


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-033
Depth : (10.81) m. To 13.12 m.
Box No. : 3 of 3
Date of Photograph 03-11-2011
(10.81)
11.89
13.12
END

PD/WCH-032


PROJECTNAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/WCH-032
Depth: 0.00 m. To (7.50) m.
Box No.: 1 of 3
Date of Photograph 04-11-2011
0.00
0.23
0.78
0.93
1.28
1.68
5.63
6.95
7.34
7.50


PROJECTNAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/WCH-032
Depth: (7.50) m. To (10.89) m.
Box No.: 2 of 3
Date of Photograph 04-11-2011
(7.50)
7.74
8.24
9.09
10.53
(10.89)

PD/WCH-032


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ WCH-032
Depth : c/0.89> m. To 13.61 m.
Box No. : 3 of 3
Date of Photograph 04-11-2011
c/0.89>
11.76
13.61
END

PD/WCH-031


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-031
Depth : 0.00 m. To (6.05) m.
Box No. : 1 of 3
Date of Photograph 01-11-2011
0.00
0.41
0.80
1.11
1.65
2.25
4.78
5.28H
5.91
(6.05)


PROJECT NAME: MTR 903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-031
Depth : (6.05) m. To (9.35) m.
Box No. : 2 of 3
Date of Photograph 01-11-2011
(6.05)
7.27
8.65
(9.35)

PD/WCH-031


PROJECT NAME: MTR 903 / SILI
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-031
Depth : (9.35) m. To 12.20 m.
Box No. : 3 of 3
Date of Photograph 01-11-2011
(9.35)
9.80
11.02
12.20
END

PD/NRW-098


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-098
Depth : 0.00 m. To (7.47) m.
Box No. : 1 of 3
Date of Photograph . 05-09-2011
0.00
0.38
0.98
4.42
5.25
5.78
7.25
(7.47)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-098
Depth : (7.47) m. To (10.88) m.
Box No. : 2 of 3
Date of Photograph . 05-09-2011
(7.47)
8.47
9.91
(10.88)

PD/NRW-098


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-098
Depth : (10.88) m. To 12.62 m.
Box No. : 3 of 3
Date of Photograph . 05-09-2011
(10.88)
11.04
12.14
12.62
END

PD/NRW-101


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-101
Depth : 0.00 m. To (6.50) m.
Box No. : 1 of 3
Date of Photograph . 05-09-2011
0.00
0.43
0.88
1.33
3.83
4.31
5.50
6.20
(6.50)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-101
Depth : (6.50) m. To 9.66 m.
Box No. : 2 of 3
Date of Photograph . 05-09-2011
(6.50)
7.55
8.90
9.66

PD/NRW-101


PROJECT NAME : MTR 903 / SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-101
Depth : 9.66 m. To 11.33 m.
Box No. : 3 of 3
Date of Photograph . 05-09-2011
9.66
10.20
10.51
11.33
END

PD/WCH-029


PROJECT NAME: MTR903/SIL(E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/WCH-029
Depth: 0.00 m. To (5.38) m.
Box No.: 1 of 3
Date of Photograph. 03-09-2011
0.00
0.42
0.82
0.96
2.75
3.20
3.40
4.88
(5.38)


PROJECT NAME: MTR903/SIL(E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/WCH-029
Depth: (5.38) m. To 8.40 m.
Box No.: 2 of 3
Date of Photograph. 03-09-2011
(5.38)
6.19
7.02
8.40

PD/WCH-029


PROJECT NAME: MTR 903/SILIE
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-029
Depth : 8.40 m. To 10.13 m.
Box No. : 3 of 3
Date of Photograph . 03-09-2011
8.40
9.46
9.76
10.13
END

PD/NRW-106


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-106
Depth : 0.00 m. To (6.26) m.
Box No. : 1 of 4
Date of Photograph . 03-09-2011


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-106
Depth : (6.26) m. To (9.76) m.
Box No. : 2 of 4
Date of Photograph . 03-09-2011

PD/NRW-106


PROJECT MTR903/SIL(E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-106
Depth : 9.76 m. To 13.04 m.
Box No. : 3 of 4
Date of Photograph . 03-09-2011
9.76
10.87
11.37
12.39
13.04


PROJECT NAME : MTR903/SIL(E)
MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-106
Depth : 13.04 m. To 16.54 m.
Box No. : 4 of 4
Date of Photograph . 03-09-2011
13.04
13.90
14.93
16.12
16.54 END

PD/WCH-028


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-028
Depth : 0.00 m. To 6.09 m.
Box No. : 1 of 4
Date of Photograph . 24-08-2011
0.00
0.53
0.93
3.16
3.47
4.74
6.09


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-028
Depth : 6.09 m. To 9.31 m.
Box No. : 2 of 4
Date of Photograph . 24-08-2011
6.09
7.18
7.47
7.78
8.35
9.31

PD/WCH-028


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-028
Depth : 9.31 m. To 12.56 m.
Box No. : 3 of 4
Date of Photograph . 24-08-2011
9.31
10.22
10.62
11.31
12.56


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-028
Depth : 12.56 m. To 14.56 m.
Box No. : 4 of 4
Date of Photograph . 24-08-2011
12.56
12.78
14.01
14.56
END

PD/WCH-027


PROJECT NAME : MTR 903/ SILCE)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-027
Depth : 0.00 m. To (3.92) m.
Box No. : 1 of 3
Date of Photograph . 24-08-2011
0.00
0.45
0.85
1.05
1.65
2.28
2.85
3.60
(3.92)


PROJECT NAME : MTR903/ SILCE)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-027
Depth : (3.92) m. To 7.32 m.
Box No. : 2 of 3
Date of Photograph . 24-08-2011
(3.92)
5.04
5.87
7.32

PD/WCH-027


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-027
Depth : 7.32 m. To 10.60 m.
Box No. : 3 of 3
Date of Photograph . 24-08-2011
7.32
8.67
10.06
10.60
END

PD/WCH-026


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-026
Depth : 0.00 m. To 6.00 m.
Box No. : 1 of 2
Date of Photograph . 17-10-2011
0.00
0.20
0.60
2.78
2.98
R.H. 2.98m
6.00


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-026
Depth : 6.00 m. To 9.73 m.
Box No. : 2 of 2
Date of Photograph . 17-10-2011
6.00
7.61
9.02
9.73
END

PD/NRW-112


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-112
Depth: 0.00 m. To 4.53 m.
Box No.: 1 of 3
Date of Photograph. 17-10-2011
0.00
0.67
1.12
1.26
2.73
3.70
4.53


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-112
Depth: 4.53 m. To 8.17 m.
Box No.: 2 of 3
Date of Photograph. 17-10-2011
4.53
5.74
6.18
6.73
8.17

PD/NRW-112


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-112
Depth : 8.17 m. To 10.40 m.
Box No. : 3 of 3
Date of Photograph . 17-10-2011
8.17
8.65
9.78
10.40
END

PD/NRW-114


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-114
Depth : 0.00 m. To (4.61) m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 1 of 2
Date of Photograph . 17-10-2011
0.00
0.32
0.80
1.52
1.72
R.F. 1.72m
2.74
3.98
(4.61)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-114
Depth : (4.61) m. To 8.27 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 2 of 2
Date of Photograph . 17-10-2011
(4.61)
4.76
5.68
6.41
6.84 m
7.39
7.39 m
8.27
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-023
Depth: 0.00 m. To 8.68 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 1 of 4
Date of Photograph 01-11-2011
0.00
1.20
1.70
2.10
3.10
4.00
6.23
7.83
8.68


MTR / 903 - SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-023
Depth: 8.68 m. To (14.42) m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 2 of 4
Date of Photograph 01-11-2011
8.68
10.98
11.18
11.84
13.18
(14.42)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-023
Depth : (14.42) m. To 18.02 m.
Box No. : 3 of 4
Date of Photograph 01-11-2011
(14.42)
14.62
15.51
16.49
18.02


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-023
Depth : 18.02 m. To 19.50 m.
Box No. : 4 of 4
Date of Photograph 01-11-2011
18.02
19.50
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-026
Depth : 0.00 m. To (16.25) m.
Box No. : 1 of 2
Date of Photograph 05-11-2011
0.00
2.10
2.70
3.40
13.54
13.84
16.26
(16.25)
(16.25)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-026
Depth : (16.25) m. To 19.26 m.
Box No. : 2 of 2
Date of Photograph 05-11-2011
(16.25)
16.87
18.04
19.08
19.26
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-030
Depth : 0.00 m. To 5.50 m.
Box No. : 1 of 4
Date of Photograph 03-11-2011
0.00
0.65
1.80
2.30
3.00
3.50
4.05
4.60
5.50


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-030
Depth : 5.50 m. To (13.52) m.
Box No. : 2 of 4
Date of Photograph 03-11-2011
5.50
5.95
7.20
8.42
9.00
9.11
12.71
(13.52)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-030
Depth : (1352) m. To (1702) m.
Box No. : 3 of 4
Date of Photograph 03-11-2011
13.52
13.99
15.34
16.42
(1702)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-030
Depth : (1702) m. To 1965 m.
Box No. : 4 of 4
Date of Photograph 03-11-2011
(1702)
17.48
18.89
1965
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-033
Depth : 0.00 m. To (11.45) m.
Box No. : 1 of 4
Date of Photograph 03-11-2011
0.00
1.10
2.60
3.30
4.35
5.10
6.20
(11.45)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-033
Depth : (11.45) m. To 14.84 m.
Box No. : 2 of 4
Date of Photograph 03-11-2011
(11.45)
12.35
13.35
14.05
14.84


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-033
Depth : 14.84 m. To (18.10) m.
Box No. : 3 of 4
Date of Photograph 03-11-2011
14.84
15.92
16.85
17.84
(18.10)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-033
Depth : (18.10) m. To 19.56 m.
Box No. : 4 of 4
Date of Photograph 03-11-2011
(18.10)
18.66
19.56
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-035A
Depth : 0.00 m. To 9.91 m.
Box No. : 1 of 4
Date of Photograph 04-11-2011
0.00
0.45
0.95
1.35
1.85
2.40
3.30
4.45
5.50
6.70
7.20
9.61
9.91


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-035A
Depth : 9.91 m. To 13.28 m.
Box No. : 2 of 4
Date of Photograph 04-11-2011
9.91
11.18
11.98
12.83
13.28


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW-035A
Depth : 1328 m. To 1686 m.
Box No. : 3 of 4
Date of Photograph 04-11-2011
1328
1415
1488
1686


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW-035A
Depth : 1686 m. To 1951 m.
Box No. : 4 of 4
Date of Photograph 04-11-2011
1686
1837
1951
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-038
Depth : 0.00 m. To 14.19 m.
Box No. : 1 of 3
Date of Photograph 01-11-2011
0.00
2.10
2.30
3.00
3.56
4.05
11.63
11.64
12.90
14.19


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-038
Depth : 14.19 m. To 17.62 m.
Box No. : 2 of 3
Date of Photograph 01-11-2011
14.19
14.64
16.10
17.62


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-038
Depth : 1762 m. To 2118 m.
Box No. : 3 of 3
Date of Photograph 01-11-2011
1762
1904
2054
2118
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-094
Depth : 0.00 m. To (12.18) m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
0.33
0.53
1.39
9.89
10.80
11.87
(12.18)


PROJECT NAME: MTR 903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-094
Depth: (12.18) m. To (15.44) m.
Box No.: 2 of 3
Date of Photograph 02-11-2011
(12.18)
13.05
14.48
15.15
(15.44)


PROJECT NAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-094
Depth: (15.44) m. To 16.88 m.
Box No.: 3 of 3
Date of Photograph 02-11-2011
(15.44)
16.88
16.88 END


PROJECT NAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PDI NRW-094A
Depth: 0.00 m. To (10.75) m.
Box No.: 1 of 3
Date of Photograph 02-11-2011
0.00
0.35
0.56
0.83
1.16
8.11
8.96
9.81
(10.75)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PDI NRW-094A
Depth: (10.75) m. To (14.25) m.
Box No.: 2 of 3
Date of Photograph 02-11-2011
(10.75)
11.26
11.96
13.35
(14.25)


PROJECT NAME: MTR903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-094A
Depth: (14.25) m. To 16.87 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 3 of 3
Date of Photograph 02-11-2011
(14.25)
14.73
16.17
16.87
END


MTR903/SIL
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-097
Depth: 0.00 m. To (7.93) m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 1 of 3
Date of Photograph 02-11-2011
0.00
0.30
1.15
1.45
5.52
5.81
6.62
7.38
(7.93)


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-097
Depth : 7.93 m. To 11.08 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 2 of 3
Date of Photograph 02-11-2011
7.93
9.62
9.95
11.08


Project MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-097
Depth : 11.08 m. To 12.18 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 3 of 3
Date of Photograph 02-11-2011
11.08
11.74
12.18
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-100
Depth : 0.00 m. To (762) m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
0.45
1.20
2.30
4.98
5.75
7.32
(762)


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-100
Depth : (762) m. To 1129 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 2 of 3
Date of Photograph 02-11-2011
(762)
8.43
9.96
1129


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-100
Depth: 11.29 m. To 13.75 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 3 of 3
Date of Photograph 02-11-2011
11.29
12.68
13.75 END


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-104
Depth: 0.00 m. To (7.65) m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 1 of 3
Date of Photograph 02-11-2011
0.00
0.35
0.80
1.60
4.68
5.43
6.28
7.25
(7.65)

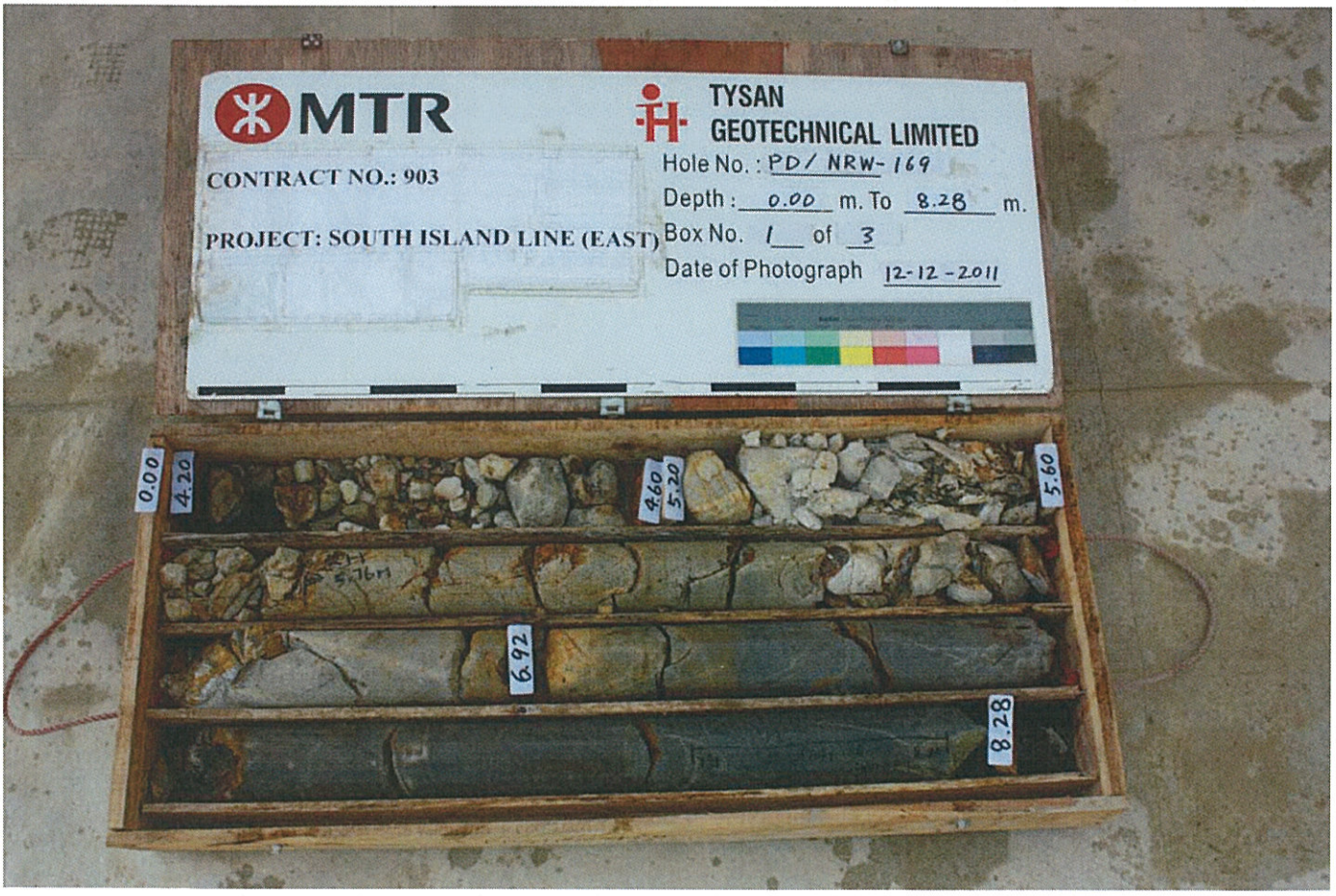

MTR 903/SIL (G)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-104
Depth: (7.65) m. To 11.09 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 2 of 3
Date of Photograph 02-11-2011
(7.65)
7.85
8.90
9.76
10.40
11.09


MTR 903/SIL (G)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No.: PD/NRW-104
Depth: 11.09 m. To 14.19 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No.: 3 of 3
Date of Photograph 02-11-2011
11.09
12.01
13.36
14.19
END


MTR 903/SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-107
Depth : 0.00 m. To 18.63 m.
Box No. : 1 of 3
Date of Photograph 02-11-2011
0.00
0.35
1.20
4.20
5.80
6.80
7.96
RH.
7.96M
18.63


MTR 903/SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-107
Depth : 18.63 m. To 21.15 m.
Box No. : 2 of 3
Date of Photograph 02-11-2011
18.63
9.26
10.09
10.40
11.10
11.47
11.80
12.15


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-107
Depth : 12.15 m. To 14.34 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 3 of 3
Date of Photograph 02-11-2011
12.15
12.80
13.35
13.85
14.03
14.34
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-169
Depth : 0.00 m. To 8.28 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. 1 of 3
Date of Photograph 12-12-2011
0.00
4.20
4.60
5.20
5.60
5.76m
6.92
8.28


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW- 169
Depth : 8.28 m. To (11.81) m.
Box No. 2 of 3
Date of Photograph 12-12 -2011
8.28
9.62
11.12
(11.81)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW- 169
Depth : (11.81) m. To 13.45 m.
Box No. 3 of 3
END
Date of Photograph 12-12 -2011
(11.81)
12.87
13.45
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW- 170
Depth : 0.00 m. To (11.88) m.
Box No. 1 of 3
Date of Photograph 12-12-2011
0.00
6.20
7.73
8.13
8.60
9.30
9.96
10.76
11.62
(11.88)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW- 170
Depth : (11.88) m. To (15.31) m.
Box No. 2 of 3
Date of Photograph 12-12-2011
(11.88)
12.60
13.01
13.79
14.71
(15.31)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW- 170
Depth : (15.31) m. To 16.76 m.
END
Box No. 3 of 3
Date of Photograph 12-12-2011
(15.31)
15.61
16.76
END

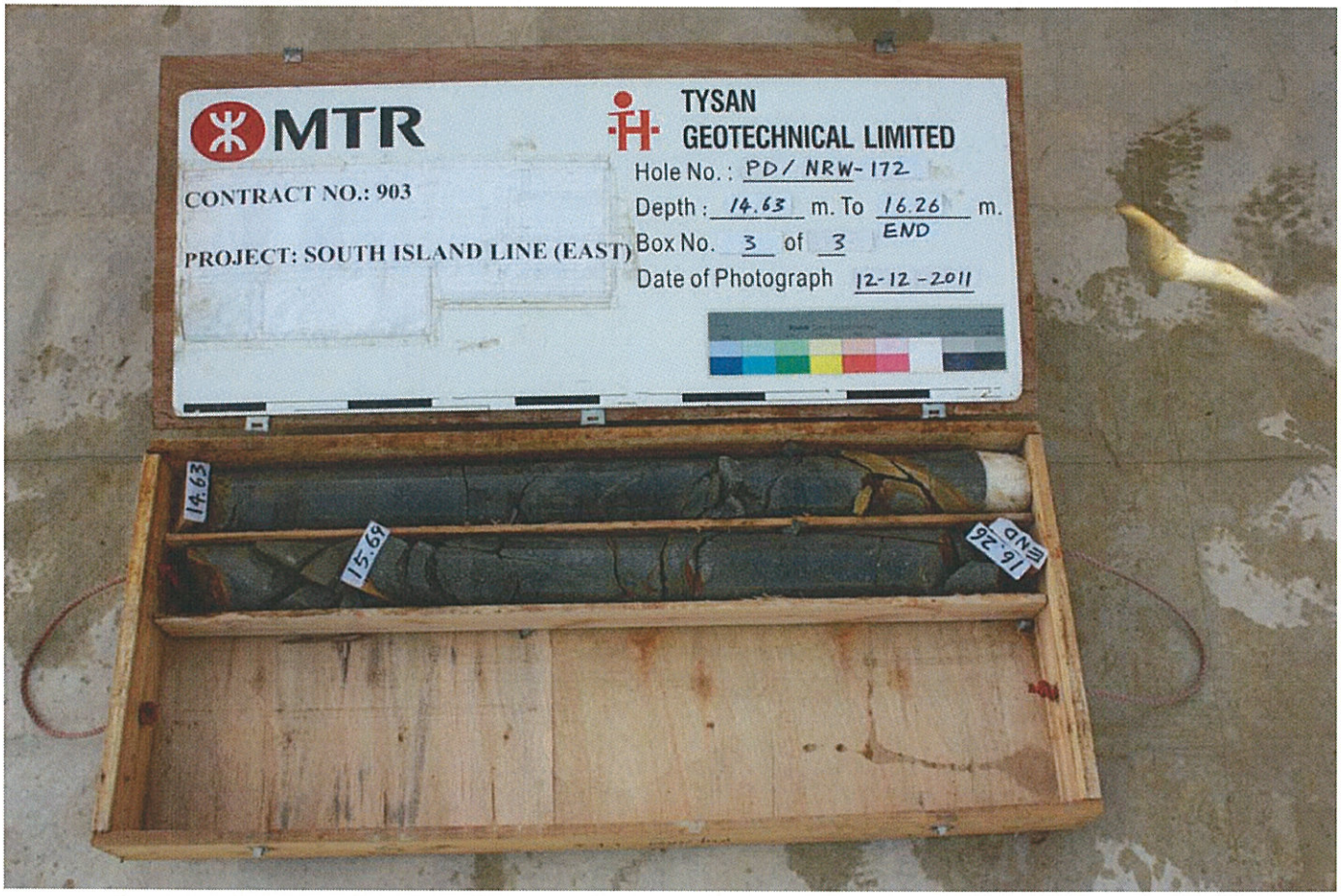

MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-171
Depth : 0.00 m. To 11.75 m.
Box No. 1 of 3
Date of Photograph 12-12-2011
0.00
0.40
1.20
8.40
8.90
9.33
9.74
10.34
11.75


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-171
Depth: 11.75 m. To (15.16) m.
Box No. 2 of 3
Date of Photograph 12-12-2011
11.75
13.81
14.08
(15.16)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-171
Depth: (15.16) m. To 18.27 m.
END
Box No. 3 of 3
Date of Photograph 12-12-2011
(15.16)
15.35
16.21
17.30
18.27
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW- 172
Depth : 0.00 m. To (11.77) m.
Box No. 1 of 3
Date of Photograph 12-12 -2011
0.00
0.35
1.40
6.25
7.05
10.03
11.43
(11.77)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW- 172
Depth : (11.77) m. To 14.63 m.
Box No. 2 of 3
Date of Photograph 12-12 -2011
(11.77)
12.40
13.89
14.63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CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW- 172
Depth : 14.63 m. To 16.26 m.
END
Box No. 3 of 3
Date of Photograph 12-12-2011
14.63
15.69
16.26
END

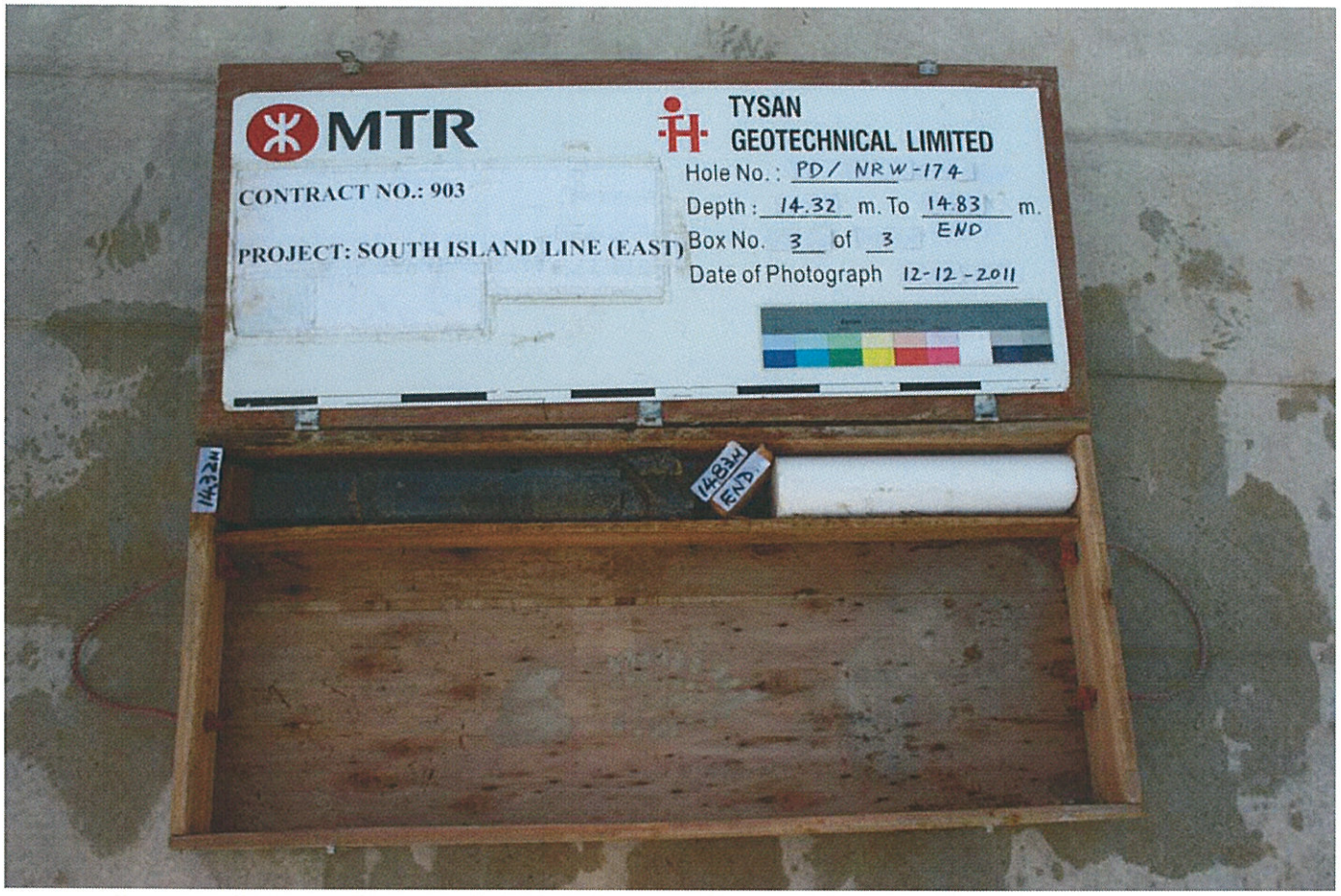

MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW- 173
Depth : 0.00 m. To 11.18 m.
Box No. 1 of 3
Date of Photograph 05-12-2011
0.00M
0.40M
1.30M
6.30M
7.10M
9.31M
9.71M
10.56M
11.18M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-173
Depth : 11.18 m. To (1442) m.
Box No. 2 of 3
Date of Photograph 05-12-2011
11.18M
11.99M
13.02M
14.06M
(14.42M)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-173
Depth : (1442) m. To 15.18 m.
END
Box No. 3 of 3
Date of Photograph 05-12-2011
(14.42M)
14.82M
15.18M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/ NRW-174
Depth: 0.00 m. To (10.80) m.
Box No. 1 of 3
Date of Photograph 12-12-2011
0.00M
0.40M
1.05M
1.50M
7.30M
8.55M
9.00M
10.00M
10.00M
(10.80)M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/ NRW-174
Depth: (10.80) m. To 14.32 m.
Box No. 2 of 3
Date of Photograph 12-12-2011
(10.80)M
11.36M
12.50M
14.32M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/ NRW-174
Depth: 14.32 m. To 14.83 m.
END
Box No. 3 of 3
Date of Photograph 12-12-2011
14.32m
14.83m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/ NRW-175
Depth: 0.00 m. To (10.65) m.
Box No.: 1 of 2
Date of Photograph 05-11-2011
0.00
0.50
1.10
8.03
9.23
(10.65)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-176
Depth: (10.65) m. To 13.63 m.
Box No.: 2 of 2
Date of Photograph 05-11-2011
(10.65)
11.78
12.67
13.63
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-176
Depth: 0.00 m. To (11.31) m.
Box No. 1 of 2
Date of Photograph 12-12-2011
0.00M
0.40M
1.55M
5.40M
5.85M
9.40M
10.85M
11.31M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/ NRW-176
Depth: 11.31 m. To 14.91 m.
END
Box No. 2 of 2
Date of Photograph 12-12-2011
11.31M
12.30M
13.77M
14.35M
14.91M
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/ NRW-177
Depth: 0.00 m. To 11.28 m.
Box No. 1 of 3
Date of Photograph 12-12-2011
0.00M
0.35M
1.25M
6.80M
8.05M
9.64M
10.51M
11.28M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/ NRW-177
Depth: 11.28 m. To 14.77 m.
Box No. 2 of 3
Date of Photograph 12-12-2011
11.28M
M22.21
13.61M
14.77M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/ NRW-177
Depth: 14.77 m. To 15.77 m.
END
Box No. 3 of 3
Date of Photograph 12-12-2011
14.77M
15.77M
END.


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/ NRW-182
Depth: 0.00 m. To (10.29) m.
Box No. 1 of 3
Date of Photograph 12-12-2011
0.00M
0.25M
6.00M
6.70M
7.00M
7.50M
7.92M
8.64M
9.36M
9.84M
(10.29M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/ NRW-182
Depth: (10.29) m. To (13.50) m.
Box No. 2 of 3
Date of Photograph 12-12-2011
(10.29M)
10.74M
11.58M
12.67M
13.16M
(13.50M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/ NRW-182
Depth: (13.50) m. To 14.67 m.
END
Box No. 3 of 3
Date of Photograph 12-12-2011
(13.50m)
13.97
14.67
END.


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-183
Depth: 0.00 m. To 8.60 m.
Box No.: 1 of 3
Date of Photograph 05-11-2011
0.00
0.30
1.00
5.60
6.83
7.66
8.11
8.60


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-183
Depth: 8.60 m. To (12.17) m.
Box No.: 2 of 3
Date of Photograph 05-11-2011
8.60
11.57
(12.17)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW-183
Depth: (12.17) m. To 12.42 m.
Box No.: 3 of 3
Date of Photograph 05-11-2011
(12.17)
12.42
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-184
Depth : 0.00 m. To (9.55) m.
Box No. : 1 of 2
Date of Photograph 05-11-2011
0.00
0.30
0.90
6.50
7.77
9.25
(9.55)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-184
Depth : (9.55) m. To 12.70 m.
Box No. : 2 of 2
Date of Photograph 05-11-2011
(9.55)
10.14
11.62
12.70
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-185
Depth: 0.00 m. To 9.05 m.
Box No.: 1 of 2
Date of Photograph 05-11-2011
0.00
0.70
5.85
7.10
7.67
9.05


PROJECT : MTR903 /SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-185
Depth: 9.05 m. To 12.12 m.
Box No.: 2 of 2
Date of Photograph 05-11-2011
9.05
10.55
12.12
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-186
Depth : 0.00 m. To 18.55 m.
Box No. : 1 of 3
Date of Photograph 03-11-2011
0.00
1.20
2.66
3.10
6.98
7.10
8.40
18.55


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-186
Depth : 18.55 m. To 11.94 m.
Box No. : 2 of 3
Date of Photograph 03-11-2011
18.55
9.19
10.29
11.19
11.94


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-186
Depth : 11.94 m. To 13.35 m.
Box No. : 3 of 3
Date of Photograph 03-11-2011
11.94
13.35
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-187
Depth : 0.00 m. To (9.50) m.
Box No. : 1 of 2
Date of Photograph 03-11-2011
0.00
5.80
6.38
6.70
8.20
9.00
(9.50)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-187
Depth: (9.50) m. To 12.84 m.
Box No.: 2 of 2
Date of Photograph 03-11-2011
(9.50)
10.30
11.12
12.07
12.84
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-188
Depth: 0.00 m. To (9.00) m.
Box No.: 1 of 2
Date of Photograph 03-11-2011
0.00
0.40
0.80
4.75
5.99
6.59
8.05
(9.00)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-188
Depth : (9.00) m. To 12.15 m.
Box No. : 2 of 2
Date of Photograph 03-11-2011
9.00
9.51
10.78
12.15
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-189
Depth : 0.00 m. To (10.43) m.
Box No. : 1 of 3
Date of Photograph 03-11-2011
0.00
0.50
1.20
7.30
7.80
7.90
9.26
10.10
(10.43)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-189
Depth : (10.43) m. To 13.91 m.
Box No. : 2 of 3
Date of Photograph 03-11-2011
(10.43)
11.63
12.44
13.91


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-189
Depth : 13.91 m. To 15.34 m.
Box No. : 3 of 3
Date of Photograph 03-11-2011
13.91
15.34
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDD- 002
Depth : 0.00 m. To (6.83) m.
Box No. 1 of 4
Date of Photograph 14-12-2011
0.00
0.60
0.72
3.10
3.85
5.15
6.37
(6.83)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDD- 002
Depth : (6.83) m. To 10.19 m.
Box No. 2 of 4
Date of Photograph 14-12-2011
(6.83)
7.73
9.15
10.19


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDD- 002
Depth : 10.19 m. To (13.74) m.
Box No. 3 of 4
Date of Photograph 14-12-2011
10.19
11.47
12.73
(13.74)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDD- 002
Depth : (13.74) m. To 16.79 m.
END
Box No. 4 of 4
Date of Photograph 14-12-2011
(13.74)
13.83
15.02
16.12
16.79
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-017
Depth : 0.00 m. To (10.35) m.
Box No. : 1 of 4
Date of Photograph . 15-10-2011
0.00
1.00
4.20
5.00
6.00
7.00
7.60
9.50
(10.35)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-017
Depth : (10.35) m. To (14.11) m.
Box No. : 2 of 4
Date of Photograph . 15-10-2011
(10.35)
10.82
12.07
13.54
(14.11)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-017
Depth : (14.11) m. To (17.62) m.
Box No. : 3 of 4
Date of Photograph . 15-10-2011
(14.11)
15.01
16.43
17.18
(17.62)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-017
Depth : (17.62) m. To 19.24 m.
Box No. : 4 of 4
Date of Photograph . 15-10-2011
(17.62)
17.84
18.63
19.24
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-017A
Depth : 0.00 m. To 12.64 m.
Box No. : 1 of 3
Date of Photograph . 14-10-2011
0.00
1.30
4.05
5.50
6.10
7.60
11.77
12.64


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-017A
Depth : 12.64 m. To 16.33 m.
Box No. : 2 of 3
Date of Photograph . 14-10-2011
12.64
13.89
14.48
15.56
16.33


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-017A
Depth : (1633) m. To 1947 m.
Box No. : 3 of 3
Date of Photograph . 14-10-2011
(1633)
1687
1834
1947
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-020
Depth : 000 m. To 812 m.
Box No. : 1 of 5
Date of Photograph . 15-10-2011
000
390
450
500
520
620
724
812


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-020
Depth : 8.12 m. To 11.80 m.
Box No. : 2 of 5
Date of Photograph . 15-10-2011
8.12
8.72M
8.97
10.29
11.02
11.80


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-020
Depth : 11.80 m. To 15.33 m.
Box No. : 3 of 5
Date of Photograph . 15-10-2011
11.80
13.07
14.47
15.33


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW-020
Depth : 1533 m. To 1874 m.
Box No. : 4 of 5
Date of Photograph . 15-10-2011
1533
1613
1727
1874


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW-020
Depth : 1874 m. To 1986 m.
Box No. : 5 of 5
Date of Photograph . 15-10-2011
1874
1986
END


PROJECT NAME: MTR903/SIL-E
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-065
Depth : 0.00 m. To (6.02) m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.55
0.96
1.45
3.45
4.06
4.53
4.85
5.56
5.89
(6.02)


PROJECT NAME: MTR903/SIL-E
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-065
Depth : (6.02) m. To 9.52 m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
(6.02)
7.19
7.39
8.10
9.52


PROJECTENAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-065
Depth : 9.52 m. To 11.57 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
9.52
10.73
11.57
END


PROJECT: MTR
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-066
Depth : 0.00 m. To 7.37 m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.45
0.90
1.10
4.66
4.80
5.16
5.19
5.45
6.54
7.37


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-066
Depth : 7.37 m. To (10.63) m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
7.37
8.16
9.50
10.51
(10.63)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-066
Depth : (10.63) m. To 13.15 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
(10.63)
11.50
11.61
13.15
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW- 068
Depth : 0.00 m. To (8.71) m.
Box No. 1 of 3
Date of Photograph 01-12 -2011
0.00M
1.85M
2.30M
5.52M
6.59M
8.15M
(8.71M)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW- 068
Depth : (8.71) m. To 11.56 m.
Box No. 2 of 3
Date of Photograph 01-12 -2011
(8.71M)
9.67M
10.76M
11.56M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-068
Depth : 11.56 m. To 12.41 m.
END
Box No. 3 of 3
Date of Photograph 01-12-2011
11.56
12.41
END


PROJECTENAME: MTR903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-069
Depth : 000 m. To (6.74) m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.39
0.79
1.29
3.71
5.48
6.59


PROJECT NAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW -069
Depth : (6.74) m. To (10.25) m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
(6.74)
7.65
8.99
(10.25)


PROJECT NAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW -069
Depth : (10.25) m. To 11.97 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
(10.25)
10.45
11.97
END


MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW- 071
Depth : 0.00 m. To (9.25) m.
Box No. 1 of 3
Date of Photograph 01-12 -2011
0.00M
0.80M
1.00M
3.75M
4.70M
5.21M
6.43M
7.50M
8.00M
8.39M
(9.25M)


MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW- 071
Depth : (9.25) m. To (12.80) m.
Box No. 2 of 3
Date of Photograph 01-12 -2011
(9.25M)
9.43M
10.98M
11.36M
11.88M
(12.80M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW- 071
Depth : (12.80) m. To 14.56 m.
END
Box No. 3 of 3
Date of Photograph 01-12 -2011
(12.80m)
13.30m
14.56m
END


Project No.: MTR / 903 - SILIC
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW-072
Depth : 000 m. To (9.44) m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.63
0.65m
1.23
1.64
7.05
8.45
(9.44)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-072
Depth : (9.44) m. To 12.53 m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
(9.44)
9.81
11.05
12.53


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-072
Depth : 12.53 m. To 13.98 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
12.53
13.98
END


PROJCTENAME: MTR903/SI(EA)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW- 074
Depth: 0.00 m. To 4.95 m.
Box No. 1 of 4
Date of Photograph 01-12-2011
0.00M
0.33M
1.32M
1.69M
1.90M
2.04M
2.15M
2.87M
3.87M
4.95M


PROJCTENAME: MTR903/SI(EA)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/NRW- 074
Depth: 4.95 m. To (10.26) m.
Box No. 2 of 4
Date of Photograph 01-12-2011
4.95M
5.64M
6.98M
8.53M
8.67M
9.68M
(10.26M)


PROJCTENAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW- 074
Depth : (10.26) m. To (13.51) m.
Box No. 3 of 4
Date of Photograph 01-12 -2011
(10.26M)
10.61M
11.73M
13.07M
(13.51M)


PROJCTENAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW- 074
Depth : (13.51) m. To 15.38 m.
END
Box No. 4 of 4
Date of Photograph 01-12 -2011
(13.51M)
(13.51M)
14.55M
15.38M
END.

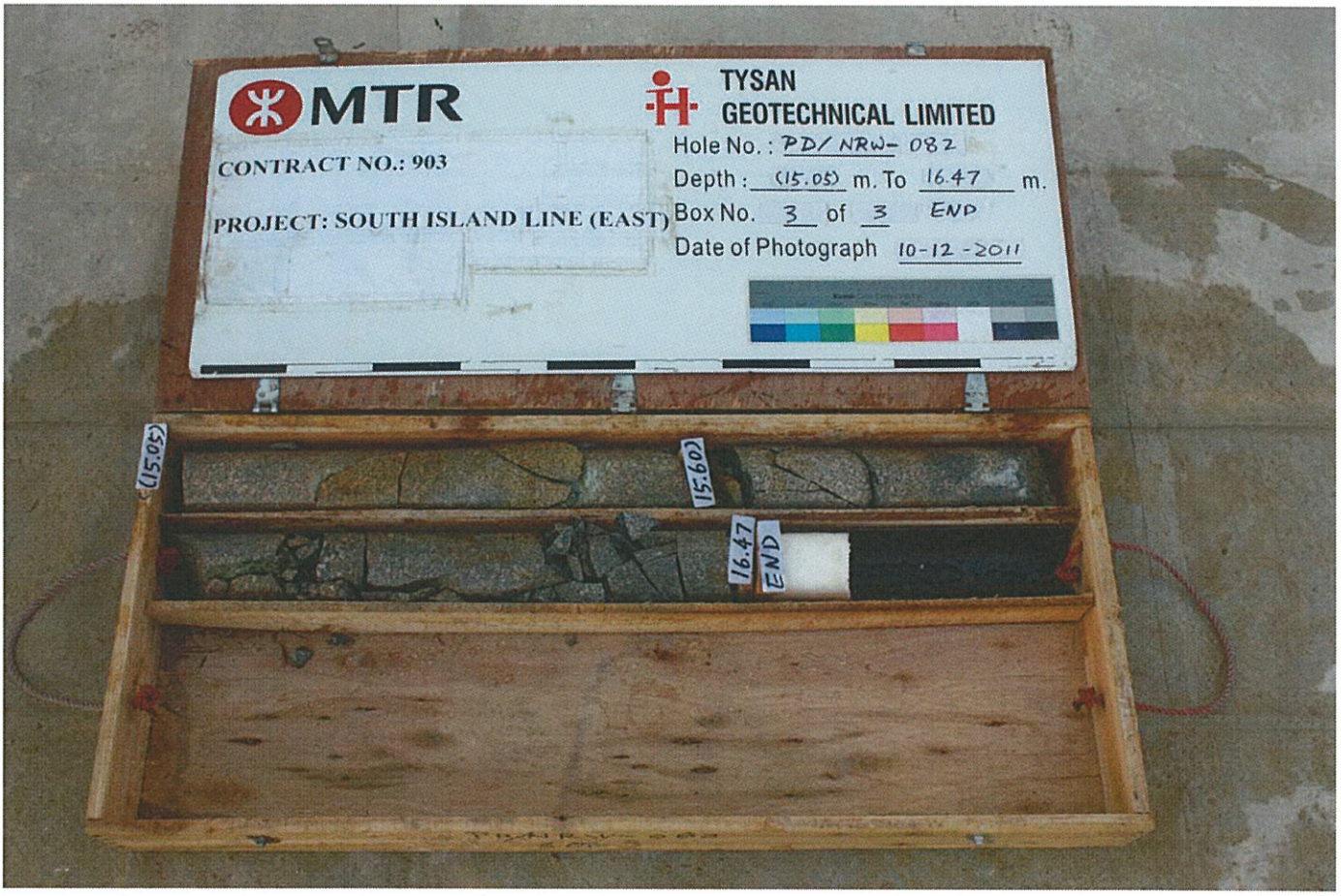

PROJCTE NAME : MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-080
Depth : 0.00 m. To 11.28 m.
Box No. 1 of 3
Date of Photograph 01-12-2011


PROJCTE NAME : MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-080
Depth : 11.28 m. To (14.30) m.
Box No. 2 of 3
Date of Photograph 01-12-2011


PROJECT NAME: MTR 903 SOUTH ISLAND LINE (EAST)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-080
Depth : (14.30) m. To 15.68 m.
END
Box No. 3 of 3
Date of Photograph 01-12-2011
(14.30m)
15.68m
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-082
Depth : 0.00 m. To 11.67 m.
Box No. 1 of 3
Date of Photograph 10-12-2011
0.00
0.30
0.50
4.80
5.30
5.50
9.00
9.22
9.77
10.25
11.67


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-082
Depth : 11.67 m. To (15.05) m.
Box No. 2 of 3
Date of Photograph 10-12-2011
11.67
11.94
13.25
13.45
14.15
(15.05)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-082
Depth : (15.05) m. To 16.47 m.
Box No. 3 of 3 END
Date of Photograph 10-12-2011
(15.05)
15.60
16.47
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-088
Depth : 0.00 m. To (11.68) m.
Box No. 1 of 3
Date of Photograph 01-12-2011


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-088
Depth : (11.68) m. To (15.33) m.
Box No. 2 of 3
Date of Photograph 01-12-2011


PROJECTNAME: MTR903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-088
Depth: (15.33) m. To 15.76 m.
END
Box No. 3 of 3
Date of Photograph 01-12-2011
END


PROJECTNAME: MTR903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-091
Depth: 0.00 m. To 11.10 m.
Box No.: 1 of 3
Date of Photograph 02-11-2011
0.00
0.39
0.99
1.29
2.62
5.61
6.07
6.87
10.33
11.10
NR


PROJCTENAME: MTR903/SILE
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-091
Depth : 11.10 m. To (14.54) m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 2 of 3
Date of Photograph 02-11-2011
11.10
11.52
12.40
12.84
(14.54)


PROJCTENAME: MTR903/SILE
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-091
Depth : (14.54) m. To 17.57 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 3 of 3
Date of Photograph 02-11-2011
(14.54)
14.84
16.29
17.57
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/VDC-012A
Depth : (2423) m. To 2701 m.
Box No. : 5 of 5
Date of Photograph . 17-10-2011
(2423)
2447
2551
2701
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/VDC-014
Depth : 0.00 m. To (12.06) m.
Box No. : 1 of 6
Date of Photograph 05-11-2011
0.00
1.25
2.10
4.70
5.70
5.80
6.10
7.00
10.26
R.H.
10.6m
11.56
(12.06)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : (12.06) m. To 15.64 m.
Box No. : 2 of 6
Date of Photograph 05-11-2011
(12.06)
12.49
13.30
14.64
15.25
15.64


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : 15.64 m. To (19.10) m.
Box No. : 3 of 6
Date of Photograph 05-11-2011
15.64
16.88
18.06
18.55
(19.10)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : (19.10) m. To 22.48 m.
Box No. : 4 of 6
Date of Photograph 05-11-2011
(19.10)
19.98
21.47
22.48


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : 22.48 m. To 25.54 m.
Box No. : 5 of 6
Date of Photograph 05-11-2011
22.48
24.04
25.54


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : 25.54 m. To 26.80 m.
Box No. : 6 of 6
Date of Photograph 05-11-2011
25.54
26.80
END


MTR/903-SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-020
Depth : 0.00 m. To 8.06 m.
Box No. : 1 of 7
Date of Photograph 05-11-2011
0.00
0.80
1.85
4.60
5.93
6.45
7.48
8.06

PD/WCH-051


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH -051
Depth : 0.00 m. To (8.52) m.
Box No. 1 of 3
Date of Photograph 30-11-2011
PD/WCH-051


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH -051
Depth : (8.52) m. To 12.24 m.
Box No. 2 of 3
Date of Photograph 30-11-2011
PD/WCH-051

PD/WCH-051


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH -051
Depth : 1224 m. To 1336 m.
END.
Box No. 3 of 3
Date of Photograph 30-11-2011
1224
1336
END
PD/WCH-051

PD/WCH-054


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH -054
Depth : 0.00 m. To (8.31) m.
Box No. 1 of 3
Date of Photograph 30-11-2011
0.00
0.65
5.50
6.10
7.64
5.10
(8.31)
PD/WCH-054 1/3


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH -054
Depth : (8.31) m. To 12.02 m.
Box No. 2 of 3
Date of Photograph 30-11-2011
(8.31)
9.19
10.75
12.02
PD/WCH-054 2/3

PD/WCH-054


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH -054
Depth : 12.02 m. To 12.70 m.
END.
Box No. 3 of 3
Date of Photograph 30-11-2011
12.02
12.70
END
PD/WCH-054

PD/WCH-057


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ WCH- 057
Depth : 0.00 m. To (7.44) m.
Box No. 1 of 3
Date of Photograph 01-12 -2011
0.00M
3.05M
3.80M
4.25M
4.42M
5.32M
6.88M
(7.44M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ WCH- 057
Depth : (7.44) m. To (11.06) m.
Box No. 2 of 3
Date of Photograph 01-12 -2011
(7.44M)
7.80M
9.14M
10.51M
(11.06M)

PD/WCH-057


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ WCH- 057
Depth : (11.06) m. To 13.41 m.
END
Box No. 3 of 3
Date of Photograph 01-12 -2011
(11.06M)
12.06M
13.41M
END
13.41
12.06
1.35

PD/WCH-060


GL. +1.47mPD
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ WCH- 060
Depth : 0.00 m. To 6.40 m.
Box No. 1 of 3
Date of Photograph 01-12 -2011
0.00M
0.60M
1.15M
3.03M
4.12M
4.17M
4.84M
6.40M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ WCH- 060
Depth : 6.40 m. To 10.16 m.
Box No. 2 of 3
Date of Photograph 01-12 -2011
6.40M
7.90M
9.26M
10.16M

PD/WCH-060


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ WCH- 060
Depth : 10.16 m. To 13.27 m.
END
Box No. 3 of 3
Date of Photograph 01-12 -2011
10.16M
10.88M
12.41M
13.27M
END

PD/WCH-042


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-042
Depth : 0.00 m. To (11.71) m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.40
0.80
1.10
1.70
3.50
3.95
9.73
9.90
11.18
(11.71)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-042
Depth : (11.71) m. To 15.27 m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
(11.71)
12.67
13.89
15.27

PD/WCH-042


PROJECTNAME: MTR903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-042
Depth : 15.27 m. To 16.56 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
15.27
16.56
END

PD/WCH-045


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-045
Depth : 0.00 m. To 11.88 m.
Box No. : 1 of 3
Date of Photograph . 15-10-2011
0.00
0.31
0.81
1.31
9.44
10.58
11.88


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-045
Depth : 11.88 m. To (15.14) m.
Box No. : 2 of 3
Date of Photograph . 15-10-2011
11.88
13.37
14.81
(15.14)

PD/WCH-045


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/WCH-045
Depth : (15.143) m. To 15.86 m.
Box No. : 3 of 3
Date of Photograph . 15-10-2011
(15.143)
15.86
END

PD/WCH-048


PROJECT NAME: MTR 903/SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No. : PD/WCH-048
Depth : 0.00 m. To (11.23) m.
Box No. : 1 of 3
Date of Photograph . 14-10-2011
0.00
0.37
0.87
8.23
8.23m
9.66
10.98
(11.23)


PROJECT NAME: MTR 903/SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No. : PD/WCH-048
Depth : (11.23) m. To (14.69) m.
Box No. : 2 of 3
Date of Photograph . 14-10-2011
(11.23)
12.36
13.80
(14.69)

PD/WCH-048


PROJECT NAME: MTR903/S1L(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-048
Depth : (14.69) m. To 16.61 m.
Box No. : 3 of 3
Date of Photograph . 14-10-2011
(14.69)
15.16
16.61
END

PD/NRW-064


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-064
Depth : 0.00 m. To (10.41) m.
Box No. : 1 of 3
Date of Photograph . 10-08-2011
0.00
1.20
1.50
2.50
7.65
8.37
9.37
9.97
(10.41)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-064
Depth : (10.41) m. To (13.94) m.
Box No. : 2 of 3
Date of Photograph . 10-08-2011
(10.41)
11.50
13.02
(13.94)

PD/NRW-064


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-064
Depth : (13.94) m. To 16.14 m.
Box No. : 3 of 3
Date of Photograph . 10-08-2011
(13.94)
14.57
16.14
END

PD/WCH-061


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-61
Depth : 0.00 m. To 6.02 m.
Box No. : 1 of 4
Date of Photograph . 24-08-2011
0.00
0.42
0.72
0.97
1.13
1.70
2.14
3.00
3.50
4.10
4.60
5.45
6.02


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-61
Depth : 6.02 m. To (12.81) m.
Box No. : 2 of 4
Date of Photograph . 24-08-2011
9.32 m
6.02
9.32
10.22
11.67
(12.81)

PD/WCH-061


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-61
Depth : 12.81 m. To 16.36 m.
Box No. : 3 of 4
Date of Photograph . 24-08-2011
12.81
13.24
14.74
16.36


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-61
Depth : 16.36 m. To 19.97 m.
Box No. : 4 of 4
Date of Photograph . 24-08-2011
16.36
17.74
19.32
19.97
END

PD/WCH-059


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-059
Depth : 0.00 m. To (11.75) m.
Box No. : 1 of 3
Date of Photograph . 10-08-2011
0.00
0.80
1.20
1.50
1.76
4.21
4.76
9.56
9.76
11.21
(11.75)


PROJECT NAME: MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-059
Depth : (11.75) m. To (15.36) m.
Box No. : 2 of 3
Date of Photograph . 10-08-2011
(11.75)
12.59
14.12
(15.36)

PD/WCH-059


PROJECT NAME : MTR 903 SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-059
Depth : (15.36) m. To 18.28 m.
Box No. : 3 of 3
Date of Photograph . 10-08-2011
(15.36)
15.56
16.80
18.28
END

PD/WCH-058


PROJECT NAME : MTR 903 SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-058
Depth : 0.00 m. To 11.58 m.
Box No. : 1 of 4
Date of Photograph . 24-08-2011
0.00
0.91
1.21
1.71
2.08
3.33
4.03
9.42
10.22
10.81
11.58


PROJECT NAME : MTR 903 SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-058
Depth : 11.58 m. To 15.07 m.
Box No. : 2 of 4
Date of Photograph . 24-08-2011
11.58
13.05
14.53
15.07

PD/WCH-058


PROJECT NAME: MTR903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-058
Depth : (15.07) m. To (18.71) m.
Box No. : 3 of 4
Date of Photograph . 24-08-2011
(15.07)
16.90
17.05
18.21
(18.71)


PROJECT NAME: MTR903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-058
Depth : (18.71) m. To 19.23 m.
Box No. : 4 of 4
Date of Photograph . 24-08-2011
(18.71)
19.23
END

PD/WCH-056


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-056
Depth : 0.00 m. To 11.74 m.
Box No. : 1 of 3
Date of Photograph . 11-08-2011
0.00
0.70
1.35
2.50
3.60
7.50
7.90
9.94
10.84
11.74


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-056
Depth : 11.74 m. To (15.24) m.
Box No. : 2 of 3
Date of Photograph . 11-08-2011
11.74
12.57
13.83
(15.24)

PD/WCH-056


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-056
Depth : (15.24) m. To 18.10 m.
Box No. : 3 of 3
Date of Photograph . 11-08-2011
(15.24)
15.39
16.63
18.10
END

PD/WCH-055


PROJECT NAME MTR 903
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-055
Depth : 0.00 m. To 12.29 m.
Box No. : 1 of 3
Date of Photograph . 11-08-2011
0.00
0.80
1.30
1.85
2.50
3.30
10.15
10.85
12.29


PROJECT NAME MTR 903
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-055
Depth : 12.29 m. To 16.00 m.
Box No. : 2 of 3
Date of Photograph . 11-08-2011
12.29
13.72
15.26
16.00

PD/WCH-055


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/WCH-055
Depth : 16.00 m. To 19.36 m.
Box No. : 3 of 3
Date of Photograph . 11-08-2011
16.00
16.88
18.31
19.36
END

PD/WCH-053


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/WCH-053
Depth : 0.00 m. To (13.87) m.
Box No. : 1 of 3
Date of Photograph . 08-08-2011
0.00
0.50
10.74
11.38
12.88
(13.87)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/WCH-053
Depth : (13.87) m. To (17.52) m.
Box No. : 2 of 3
Date of Photograph . 08-08-2011
(13.87)
14.34
14.68
16.11
(17.52)

PD/WCH-053


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/WCH-053
Depth : (17.52) m. To 19.16 m.
Box No. : 3 of 3
Date of Photograph . 08-08-2011
(17.52)
17.60
19.16
END

PD/WCH-052


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/WCH-052
Depth : 0.00 m. To 14.56 m.
Box No. : 1 of 3
Date of Photograph . 06-08-2011
0.00
4.50
4.80
11.27
11.89
13.10
14.56


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/WCH-052
Depth : 14.56 m. To (18.13) m.
Box No. : 2 of 3
Date of Photograph . 06-08-2011
14.56
16.05
17.60
(18.13)

PD/WCH-052


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/WCH-052
Depth : (18.13) m. To 20.42 m.
Box No. : 3 of 3
Date of Photograph . 06-08-2011
(18.13)
19.10
20.42
END

PD/NRW-102


PROJECT NIAME: MTR 903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-102
Depth : 0.00 m. To 5.10 m.
Box No. : 1 of 3
Date of Photograph . 05-08-2011
0.00
0.50
0.80
1.30
1.90
2.30
2.90
3.45
3.80
4.40
5.10


PROJECT NIAME: MTR 903/SIL(E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-102
Depth : 5.10 m. To (15.42) m.
Box No. : 2 of 3
Date of Photograph . 05-08-2011
5.10
11.68
13.07
14.57
(15.42)

PD/NRW-102


PROJECT NAME MTR 903 SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-102
Depth : (15.42) m. To 18.00 m.
Box No. : 3 of 3
Date of Photograph . 05-08-2011
(15.42)
15.93
16.93
18.00
END

PD/NRW-103


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No.: PD/NRW-103
Depth: 0.00 m. To 14.37 m.
Box No.: 1 of 3
Date of Photograph. 05-08-2011
0.00
0.50
1.70
3.00
4.20
4.40
6.00
12.45
13.41
14.37


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No.: PD/NRW-103
Depth: 14.37 m. To 18.06 m.
Box No.: 2 of 3
Date of Photograph. 05-08-2011
14.37
15.10
16.56
18.06

PD/NRW-103


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-103
Depth : 18.06 m. To 19.51 m.
Box No. : 3 of 3
Date of Photograph . 05-08-2011
18.06
19.51
END

PD/NRW-001


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-001
Depth : 0.00 m. To (13.30) m.
Box No. : 1 of 3
Date of Photograph . 11-08-2011
0.00
0.50
1.50
2.50
3.50
4.80
10.82
11.40
12.89
(13.30)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-001
Depth : (13.30) m. To (17.07) m.
Box No. : 2 of 3
Date of Photograph . 11-08-2011
(13.30)
14.26
15.81
(17.07)

PD/NRW-001


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-001
Depth : (17.07) m. To 19.78 m.
Box No. : 3 of 3
Date of Photograph . 11-08-2011
(17.07)
17.35
18.81
19.78
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-006
Depth : 0.00 m. To 5.50 m.
Box No. : 1 of 4
Date of Photograph . 17-10-2011
0.00
1.75
1.30
3.00
4.20
5.50


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-006
Depth : 5.50 m. To (15.61) m.
Box No. : 2 of 4
Date of Photograph . 17-10-2011
5.50
6.30
6.86
7.40
13.28
13.73
15.24
(15.61)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-006
Depth : (15.61) m. To (18.66) m.
Box No. : 3 of 4
Date of Photograph . 17-10-2011
(15.61)
16.77
18.19
(18.66)


PROJECT NAME : MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-006
Depth : (18.66) m. To 20.56 m.
Box No. : 4 of 4
Date of Photograph . 17-10-2011
(18.66)
19.65
20.56
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-008
Depth : 0.00 m. To 6.80 m.
Box No. : 1 of 4
Date of Photograph . 17-10-2011
0.00
1.75
2.70
4.00
4.80
5.50
6.80


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-008
Depth : 6.80 m. To (15.98) m.
Box No. : 2 of 4
Date of Photograph . 17-10-2011
6.80
8.63
9.00
12.49
14.02
15.52
(15.98)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-008
Depth : (15.98) m. To (19.49) m.
Box No. : 3 of 4
Date of Photograph . 17-10-2011
(15.98)
17.00
18.49
(19.49)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-008
Depth : (19.49) m. To 20.95 m.
Box No. : 4 of 4
Date of Photograph . 17-10-2011
(19.49)
19.98
20.95
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-014
Depth : 0.00 m. To 6.70 m.
Box No. : 1 of 4
Date of Photograph . 17-10-2011
0.00
1.20
2.70
3.70
4.40
5.40
6.70


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-014
Depth : 6.70 m. To (13.66) m.
Box No. : 2 of 4
Date of Photograph . 17-10-2011
6.70
10.16
RH
10.16m
11.11
12.57
(13.66)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-014
Depth : (13.66) m. To 16.99 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 3 of 4
Date of Photograph . 17-10-2011
(13.66)
14.03
15.47
16.99


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-014
Depth : 16.99 m. To 19.33 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 4 of 4
Date of Photograph . 17-10-2011
16.99
18.44
19.33
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-017
Depth : 0.00 m. To (10.35) m.
Box No. : 1 of 4
Date of Photograph . 15-10-2011
0.00
1.00
4.20
5.00
6.00
7.00
7.60
9.50
(10.35)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-017
Depth : (10.35) m. To (14.11) m.
Box No. : 2 of 4
Date of Photograph . 15-10-2011
(10.35)
10.82
12.07
13.54
(14.11)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-017
Depth : (14.11) m. To (17.62) m.
Box No. : 3 of 4
Date of Photograph . 15-10-2011
(14.11)
15.01
16.43
17.18
(17.62)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-017
Depth : (17.62) m. To 19.24 m.
Box No. : 4 of 4
Date of Photograph . 15-10-2011
(17.62)
17.84
18.63
19.24
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-017A
Depth : 0.00 m. To 12.64 m.
Box No. : 1 of 3
Date of Photograph . 14-10-2011
0.00
1.30
4.05
5.50
6.10
7.60
11.77
12.64


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-017A
Depth : 12.64 m. To 16.33 m.
Box No. : 2 of 3
Date of Photograph . 14-10-2011
12.64
13.89
14.48
15.56
16.33


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-017A
Depth : (1633) m. To 1947 m.
Box No. : 3 of 3
Date of Photograph . 14-10-2011
(1633)
1687
1834
1947
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-020
Depth : 000 m. To 812 m.
Box No. : 1 of 5
Date of Photograph . 15-10-2011
000
390
450
500
520
620
724
812


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-020
Depth : 8.12 m. To 11.80 m.
Box No. : 2 of 5
Date of Photograph . 15-10-2011
8.12
8.72M
8.97
10.29
11.02
11.80


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-020
Depth : 11.80 m. To 15.33 m.
Box No. : 3 of 5
Date of Photograph . 15-10-2011
11.80
13.07
14.47
15.33


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW-020
Depth : 1533 m. To 1874 m.
Box No. : 4 of 5
Date of Photograph . 15-10-2011
1533
1613
1727
1874


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/ NRW-020
Depth : 1874 m. To 1986 m.
Box No. : 5 of 5
Date of Photograph . 15-10-2011
1874
1986
END


MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-056
Depth : 0.00 m. To (10.32) m.
Box No. : 1 of 4
Date of Photograph . 06-08-2011
0.00
2.70
3.00
6.17
7.14
7.76
8.36
8.88
10.08
(10.32)


MTR
TYSAN GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-056
Depth : (10.32) m. To 16.27 m.
Box No. : 2 of 4
Date of Photograph . 06-08-2011
(10.32)
10.75
13.10
13.60
14.57
15.56
16.27


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-056
Depth : 16.27 m. To 19.37 m.
Box No. : 3 of 4
Date of Photograph . 06-08-2011
16.27
17.01
17.84
19.37


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-056
Depth : 19.37 m. To 20.56 m.
Box No. : 4 of 4
Date of Photograph . 06-08-2011
19.37
20.56
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDC- 012
Depth : 0.00 m. To 12.95 m.
Box No. 1 of 4
Date of Photograph 30-11-2011
0.00M
1.00M
2.60M
4.00M
4.85M
5.60M
7.00M
11.49M
12.95M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDC- 012
Depth : 12.95 m. To (17.68) m.
Box No. 2 of 4
Date of Photograph 30-11-2011
12.95M
14.44M
15.85M
17.35M
(17.68M)


PROJECT NAME: MTR 903/SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/VDC-012
Depth: (17.68) m. To (23.33) m.
Box No. 3 of 4
Date of Photograph 30-11-2011


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No.: PD/VDC-012
Depth: (23.33) m. To 27.80 m.
END
Box No. 4 of 4
Date of Photograph 30-11-2011


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/VDC-012A
Depth : (2423) m. To 2701 m.
Box No. : 5 of 5
Date of Photograph . 17-10-2011
(2423)
2447
2551
2701
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/VDC-014
Depth : 0.00 m. To (12.06) m.
Box No. : 1 of 6
Date of Photograph 05-11-2011
0.00
1.25
2.10
4.70
5.70
5.80
6.10
7.00
10.26
R.H.
10.6m
11.56
(12.06)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : (12.06) m. To 15.64 m.
Box No. : 2 of 6
Date of Photograph 05-11-2011
(12.06)
12.49
13.30
14.64
15.25
15.64


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : 15.64 m. To (19.10) m.
Box No. : 3 of 6
Date of Photograph 05-11-2011
15.64
16.88
18.06
18.55
(19.10)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : (19.10) m. To 22.48 m.
Box No. : 4 of 6
Date of Photograph 05-11-2011
(19.10)
19.98
21.47
22.48


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : 22.48 m. To 25.54 m.
Box No. : 5 of 6
Date of Photograph 05-11-2011
22.48
24.04
25.54


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-014
Depth : 25.54 m. To 26.80 m.
Box No. : 6 of 6
Date of Photograph 05-11-2011
25.54
26.80
END


MTR/903-SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-020
Depth : 0.00 m. To 8.06 m.
Box No. : 1 of 7
Date of Photograph 05-11-2011
0.00
0.80
1.85
4.60
5.93
6.45
7.48
8.06


MTR 903/SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/VDC-020
Depth : 806 m. To 1203 m.
Box No. : 2 of 7
Date of Photograph 05-11-2011
806
905
1050
1203


MTR 903/SIL (E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/VDC-020
Depth : 1203 m. To 1600 m.
Box No. : 3 of 7
Date of Photograph 05-11-2011
1203
1237
1355
1508
1600


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/VDC-020
Depth: 1600 m. To 1953 m.
Box No.: 4 of 7
Date of Photograph 05-11-2011
1600
16.66
18.18
1953


MTR 903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/VDC-020
Depth: 1953 m. To 2262 m.
Box No.: 5 of 7
Date of Photograph 05-11-2011
1953
21.05
22.01
22.62


MTR903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-020
Depth : 22.62 m. To 25.68 m.
Box No. : 6 of 7
Date of Photograph 05-11-2011
22.62
24.18
25.68


MTR903/SIL (E)
MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-020
Depth : 25.68 m. To 28.91 m.
Box No. : 7 of 7
Date of Photograph 05-11-2011
25.68
27.00
28.05
28.91
END

PD/NRW-051


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-051
Depth : 0.00 m. To 12.02 m.
Box No. : 1 of 3
Date of Photograph . 08-08-2011
0.00
0.50
2.00
9.52
10.30
10.55
12.02


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-051
Depth : 12.02 m. To (15.62) m.
Box No. : 2 of 3
Date of Photograph . 08-08-2011
12.02
13.12
14.64
15.62

PD/NRW-051


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE(EAST)
Hole No. : PD/NRW-051
Depth : (15.62) m. To 18.31 m.
Box No. : 3 of 3
Date of Photograph . 08-08-2011
(15.62)
16.12
17.60
18.31
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-202
Depth : 0.00 m. To 8.95 m.
Box No. 1 of 4
Date of Photograph 27-02-2012
0.00M
0.35M
1.20M
6.22M
7.46M
8.95M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 202
Depth : 8.95 m. To (12.60) m.
Box No. 2 of 4
Date of Photograph 11-02-2012
8.95M
8.95M
10.47M
10.47M
11.93M
12.60M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 202
Depth : (12.60) m. To (15.70) m.
Box No. 3 of 4
Date of Photograph 11-02-2012
(12.60m)
(12.60m)
13.48m
14.99m
(15.70m)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 202
Depth : (15.70) m. To 17.79 m.
END
Box No. 4 of 4
Date of Photograph 11-02-2012
(15.70m)
16.31m
17.79m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-203
Depth : 0.00 m. To 6.13 m.
Box No. 1 of 3
Date of Photograph 27-02-2012
0.00M
0.20M
1.20M
3.32M
4.12M
4.82M
6.13M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-203
Depth : 6.13 m. To 9.65 m.
Box No. 2 of 3
Date of Photograph 27-02-2012
6.13M
7.04M
8.24M
9.65M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-203
Depth : 9.65 m. To 13.27 m.
END
Box No. 3 of 3
Date of Photograph 27-02-2012
9.65M
10.96M
11.87M
12.41M
13.27M
END.


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 203A
Depth : 0.00 m. To 7.45 m.
Box No. 1 of 3
Date of Photograph 27-02-2012
0.00M
0.30M
0.80M
4.50M
4.90M
5.25M
5.81M
6.63M
7.45M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 203A
Depth : 7.45 m. To 10.39M m.
Box No. 2 of 3
Date of Photograph 27-02-2012
7.45M
8.85M
9.55M
10.39M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 203A
Depth : 10.39m m. To 13.16 m.
END
Box No. 3 of 3
Date of Photograph 27-02-2012
10.39m
10.67m
11.77m
13.16m
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW204
Depth : 0.00 m. To 7.80 m.
Box No. 1 of 3
Date of Photograph 27-02-2012
0.00M
0.35M
0.95M
1.30M
1.82M
5.97M
7.42M
7.80M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW204
Depth : 7.80 m. To (11.17M) m.
Box No. 2 of 3
Date of Photograph 27-02-2012
7.80M
8.93M
10.47M
(11.17M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW204
Depth : (11.17M) m. To 13.41M m.
END.
Box No. 3 of 3
Date of Photograph 27-02-2012
(11.17M)
11.57M
12.97M
13.41M
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW/205
Depth : 0.00 m. To 6.90 m.
Box No. 1 of 4
Date of Photograph 04-02-2012
0.00M
0.50M
1.50M
4.37M
4.57M
5.44M
5.73M
6.90M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW/205
Depth : 6.90 m. To 10.20 m.
Box No. 2 of 4
Date of Photograph 04-02-2012
6.90M
7.85M
8.70M
9.05M
10.20M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW/205
Depth : 10.20 m. To 13.15 m.
Box No. 3 of 4
Date of Photograph 04-02-2012
10.20M
10.95M
11.80M
12.65M
13.15M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW/205
Depth : 13.15 m. To 13.73 m.
END
Box No. 4 of 4
Date of Photograph 04-02-2012
13.15M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW206
Depth : 0.00 m. To 7.02 m.
Box No. 1 of 3
Date of Photograph 09-02-2012
0.00M
0.50M
1.30M
3.92M
4.42M
5.52M
7.02M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW206
Depth : 7.02 m. To 10.66 m.
Box No. 2 of 3
Date of Photograph 09-02-2012
7.02M
7.93M
9.14M
10.66M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW206
Depth : 10.66 m. To 13.78 m.
END
Box No. 3 of 3
Date of Photograph 09-02-2012
10.66m
11.10m
12.46m
12.89m
13.78m
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW207
Depth : 0.00 m. To (6.12) m.
Box No. 1 of 3
Date of Photograph 04-02-2012
0.00M
0.45M
1.30M
3.23M
R.T.
3.23M
4.03M
5.53M
5.90M
(6.12M)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW207
Depth : (6.12) m. To 10.79 m.
Box No. 2 of 3
Date of Photograph 04-02-2012
(6.12M)
7.40M
8.69M
10.08
10.79M


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW207
Depth : 10.79 m. To 13.66 m.
END
Box No. 3 of 3
Date of Photograph 04-02-2012
10.79M
11.91
12.97M
13.66M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-208
Depth : 0.00 m. To 7.83 m.
Box No. 1 of 3
Date of Photograph 27-02-2012
0.00M
0.35M
0.54M
2.10M
2.50M
2.80M
5.06M
5.89M
6.76M
7.83M
7.83M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 208
Depth : 7.83 m. To (11.43) m.
Box No. 2 of 3
Date of Photograph 27-02-2012
7.83M
9.18M
10.47M
(11.43M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 208
Depth : (11.43) m. To 12.27 m.
END
Box No. 3 of 3
Date of Photograph 27-02-2012
11.43M
11.97M
12.27M
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-209
Depth : 0.00 m. To (4.48) m.
Box No. 1 of 3
Date of Photograph 27-02-2012
0.00M
0.35M
1.85M
2.23M
R.H.
2.25M
2.73M
3.68M
(4.48M)


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN
GEOTECHNICAL LIMITED
Hole No. : PD/NRW-209
Depth : (4.48) m. To (8.18) m.
Box No. 2 of 3
Date of Photograph 27-02-2012
(4.48M)
4.90M
6.23M
7.74M
(8.18M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW-209
Depth : (8.18) m. To 12.58 m.
END
Box No. 3 of 3
Date of Photograph 27-02-2012
(8.18m)
9.07m
10.34m
11.05m
11.82m
12.58m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW210
Depth : 0.00 m. To (6.64) m.
Box No. 1 of 3
Date of Photograph 20-02-2012
0.00M
0.40M
1.90M
3.30M
4.76M
6.26M
(6.64M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW210
Depth : (6.64) m. To 10.04 m.
Box No. 2 of 3
Date of Photograph 20-02-2012
(6.64)
7.54M
8.34M
9.09M
10.04M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW210
Depth : 10.04 m. To 12.66 m.
END
Box No. 3 of 3
Date of Photograph 20-02-2012
10.04m
11.15m
12.66m
END


PROJECT NAME: MTR 903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/NRW-211
Depth: 0.00 m. To (4.83) m.
Box No.: 1 of 3
Date of Photograph 20-04-2012
0.00
0.30
0.85
1.45
2.45
3.12
4.00
4.83)


PROJECT NAME: MTR 903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/NRW-211
Depth: (4.83) m. To (8.57) m.
Box No.: 2 of 3
Date of Photograph 20-04-2012
4.83)
5.31
6.79
8.26
8.57)


PROJECT NAME: MTR903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No. : PD/NRW-211
Depth : (8.57) m. To 11.97 m.
Box No. : 3 of 3
Date of Photograph 20-04-2012
8.57
9.76
11.08
11.97
END


PROJECT NAME: MTR903 ISLAND LINE (EAST)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/NRW-212
Depth: 0.00 m. To 6.49 m.
Box No.: 1 of 3
Date of Photograph 20-04-2012
0.00
0.35
0.70
1.30
1.90
4.90
5.20
6.49


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/NRW-212
Depth: 6.49 m. To 10.83 m.
Box No.: 2 of 3
Date of Photograph 20-04-2012
6.49
7.15
8.05
9.38
9.86
10.83


PROJECT NAME: MTR903/S14
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No. : PD/NRW-212
Depth : 10.83 m. To 14.97 m.
Box No. : 3 of 3
Date of Photograph 20-04-2012
10.83
11.87
12.67
13.59
14.60
14.71
END


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/NRW-218
Depth: 0.00 m. To 5.73 m.
Box No.: 1 of 2
Date of Photograph 12-07-2012
0.00
0.15
0.65
3.03
4.34
5.73


MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/NRW-218
Depth: 5.73 m. To 8.60 m.
Box No.: 2 of 2
Date of Photograph 12-07-2012
5.73
7.03
8.60 END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW219
Depth : 0.00 m. To (4.75) m.
Box No. 1 of 3
Date of Photograph 20-02-2012
0.00M
0.50M
1.70M
2.86M
R.T 2.86m
3.96M
(4.75M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW219
Depth : (4.75) m. To (9.26) m.
Box No. 2 of 3
Date of Photograph 09-02-2012
(4.75M)
5.12M
6.36M
7.50M
8.43M
(9.26M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW219
Depth : (9.26) m. To 13.40 m.
END
Box No. 3 of 3
Date of Photograph 09-02-2012
(9.26M)
9.78M
12.11M
13.40M
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW220
Depth : 0.00 m. To (6.23) m.
Box No. 1 of 3
Date of Photograph 11-02-2012
0.00M
0.40M
1.90M
2.30M
3.96M
5.40M
(6.23M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW220
Depth : (6.23) m. To (9.74) m.
Box No. 2 of 3
Date of Photograph 11-02-2012
(6.23M)
6.53M
7.97M
9.30M
(9.74M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW220
Depth : (9.74) m. To 13.17 m.
END
Box No. 3 of 3
Date of Photograph 11-02-2012
(9.74m)
10.24m
11.06m
12.51m
13.17m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 221
Depth : 0.00 m. To (7.00) m.
Box No. 1 of 3
Date of Photograph 16-02-2012
0.00M
0.35M
1.47M
1.82M
2.95M
3.89M
6.05M
(7.00M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 221
Depth : (7.00) m. To 10.46 m.
Box No. 2 of 3
Date of Photograph 16-02-2012
(7.00M)
7.40M
8.36M
9.40M
10.46M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 221
Depth : 10.46 m. To 12.95 m.
END
Box No. 3 of 3
Date of Photograph 16-02-2012
10.46m
11.67m
12.95m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 222
Depth : 0.00 m. To (5.79) m.
Box No. 1 of 3
Date of Photograph 16-02-2012
0.00M
0.30M
1.60M
2.88M
4.13M
5.16M
(5.79M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ NRW 222
Depth : (5.79) m. To 10.13 m.
Box No. 2 of 3
Date of Photograph 16-02-2012
(5.79M)
6.60M
7.05M
8.28M
8.93M
10.13M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW 222
Depth : 10.13 m. To 12.88 m.
END
Box No. 3 of 3
Date of Photograph 16-02-2012
10.13M
11.40M
11.90M
12.88M
END
13.42
- 0.54
12.88


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW223
Depth : 0.00 m. To (7.12) m.
Box No. 1 of 3
Date of Photograph 16-02-2012
0.00M
0.40M
1.90M
4.78M
5.52M
6.37M
(7.12M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW223
Depth : (7.12) m. To 11.60 m.
Box No. 2 of 3
Date of Photograph 16-02-2012
(7.12M)
7.49M
8.91M
10.24M
10.78M
11.60M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW223
Depth : 11.60 m. To 13.30 m.
END
Box No. 3 of 3
Date of Photograph 16-02-2012
11.60M
12.47M
END 13.30M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW224
Depth : 0.00 m. To (5.92) m.
Box No. 1 of 3
Date of Photograph 16-02-2012
0.00M
0.35M
1.10M
2.10M
3.14M
3.64M
4.92M
(5.92M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW224
Depth : (5.92) m. To (9.48) m.
Box No. 2 of 3
Date of Photograph 16-02-2012
(5.92M)
6.33M
7.65M
8.48M
(9.48M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/NRW224
Depth : (9.48) m. To 12.92 m.
Box No. 3 of 3
END
Date of Photograph 16-02-2012
(9.48m)
9.93m
10.96m
12.12m
12.92m
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-225
Depth: 0.00 m. To 4.67 m.
Box No.: 1 of 4
Date of Photograph 02-11-2011
0.00
0.50
1.15
1.80
3.00
3.92
4.67


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No.: PD/NRW-225
Depth: 4.67 m. To (8.13) m.
Box No.: 2 of 4
Date of Photograph 02-11-2011
4.67
5.53
6.48
7.64
(8.13)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-225
Depth : (8.13) m. To 11.25 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 3 of 4
Date of Photograph 02-11-2011
(8.13)
8.75
9.80
11.25


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
Hole No. : PD/NRW-225
Depth : 11.25 m. To 13.60 m.
PROJECT: SOUTH ISLAND LINE (EAST)
Box No. : 4 of 4
Date of Photograph 02-11-2011
11.25
12.63
13.60
END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC 011
Depth : 0.00 m. To 11.68 m.
Box No. 1 of 4
Date of Photograph 09-02-2012
0.00M
8.28M
8.48M
9.18M
10.43M
11.08M
W8911


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC 011
Depth : 11.68 m. To (14.93) m.
Box No. 2 of 4
Date of Photograph 09-02-2012
11.68M
13.13M
14.18M
14.93M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDC 011
Depth : (14.93) m. To 17.90 m.
Box No. 3 of 4
Date of Photograph 20-02-2012
(14.93M)
15.28M
15.88M
16.35M
16.83M
17.90M


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/ VDC 011
Depth : 17.90 m. To 18.67 m.
END.
Box No. 4 of 4
Date of Photograph 09-02-2012
17.90M
18.67M
END


PROJECTNAME:MTR903/SILE
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/VDC-011A
Depth: 0.00 m. To (7.27) m.
Box No.: 1 of 3
Date of Photograph 25-04-2012
0.00
0.35
0.85
1.25
4.30
4.65
4.90
5.28
5.42
6.30
(7.27)


PROJECTNAME: MTR 903 /SILE2)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/VDC-011A
Depth: (7.27) m. To (11.71) m.
Box No.: 2 of 3
Date of Photograph 25-04-2012
(7.27)
7.66
8.96
9.63
10.15
10.63
(11.71)


PD_TECNAME: MTR 903/SIL(E)
MTR
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
TYSAN GEOTECHNICAL LIMITED
Hole No.: PD/VDC-011A
Depth: (11.71) m. To 17.15 m.
Box No.: 3 of 3
Date of Photograph 25-04-2012
(11.71)
11.96
12.99
14.42
15.39
15.81
16.87
17.15 END


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-013
Depth : 0.00 m. To (6.48) m.
Box No. 1 of 3
Date of Photograph 27-02-2012
0.00M
0.40M
1.00M
1.70M
3.64M
3.84M
4.34M
5.70M
(6.48M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-013
Depth : (6.48) m. To (10.23) m.
Box No. 2 of 3
Date of Photograph 27-02-2012
(6.48M)
7.02
8.48M
9.99M
(10.23M)


MTR
TYSAN
GEOTECHNICAL LIMITED
CONTRACT NO.: 903
PROJECT: SOUTH ISLAND LINE (EAST)
Hole No. : PD/VDC-013
Depth : (10.23) m. To 13.52 m.
END
Box No. 3 of 3
Date of Photograph 27-02-2012
10.23M
11.29M
12.75M
13.52M
END