

VOLUME 3

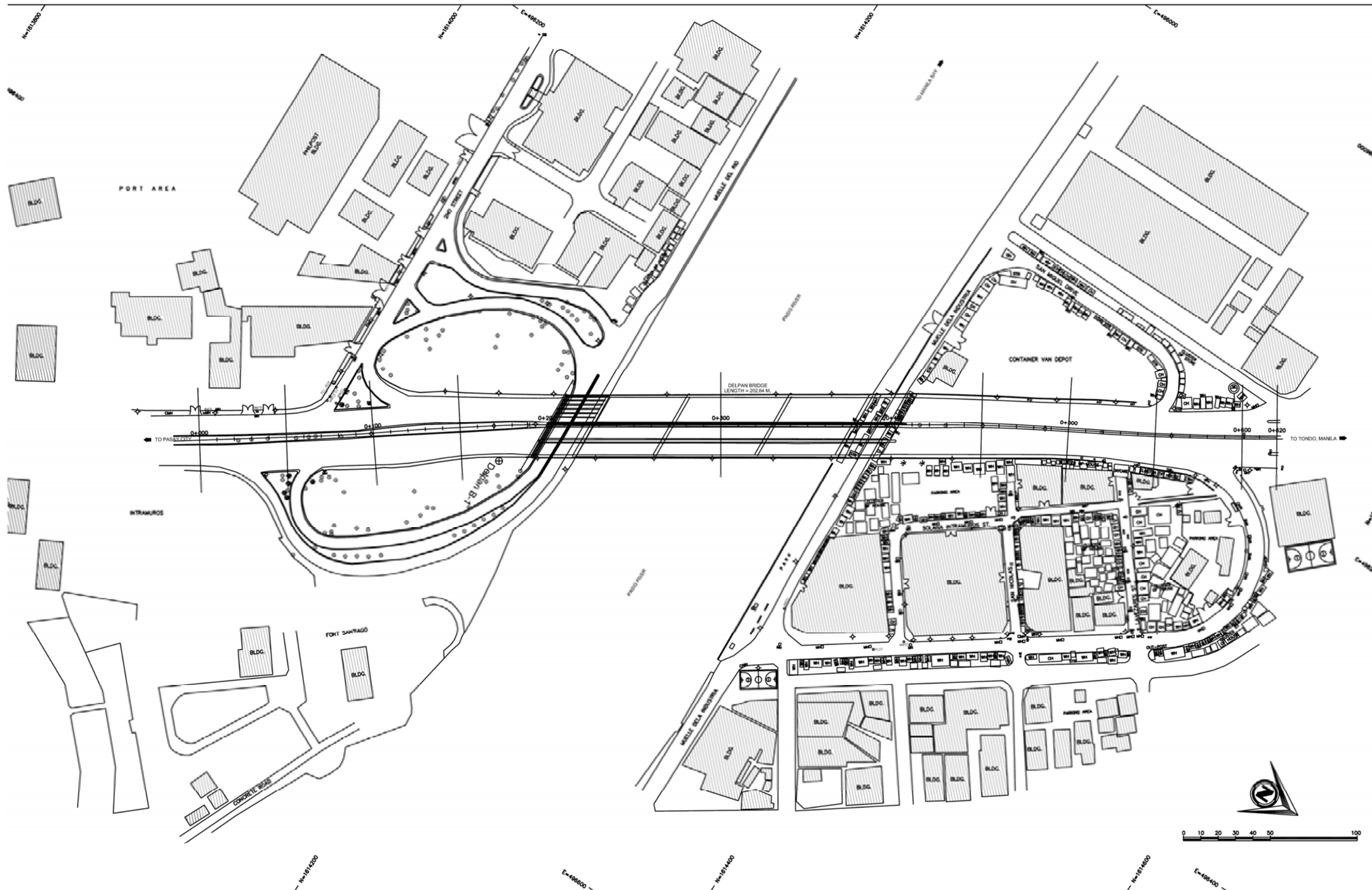
RESULTS OF EXISTING CONDITION
SURVEY

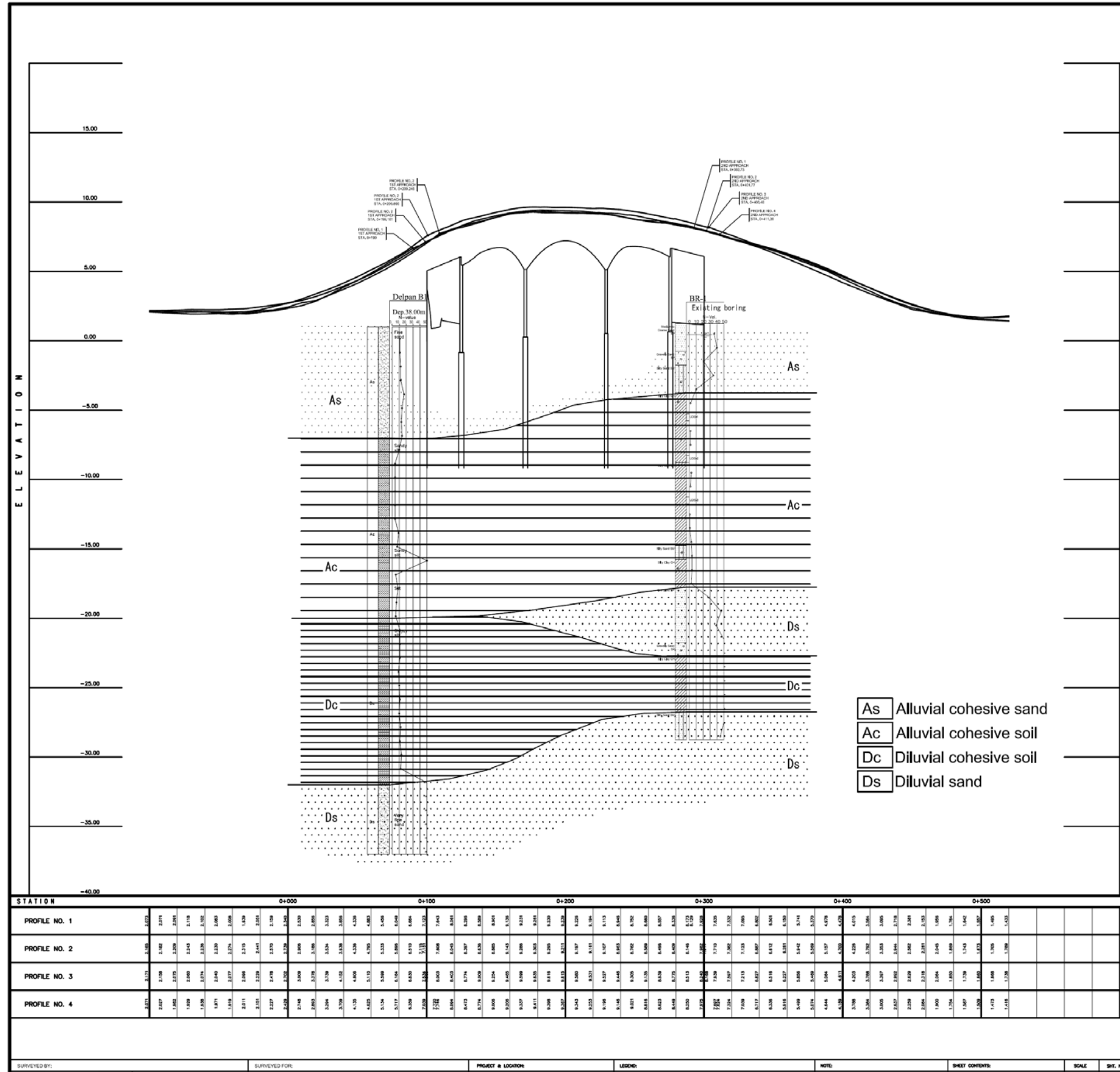
APPENDIX 3-A

GEOLOGICAL DATA (LOCATION OF BOREHOLES, BORING LOGS, AND GEOLOGICAL PROFILES)

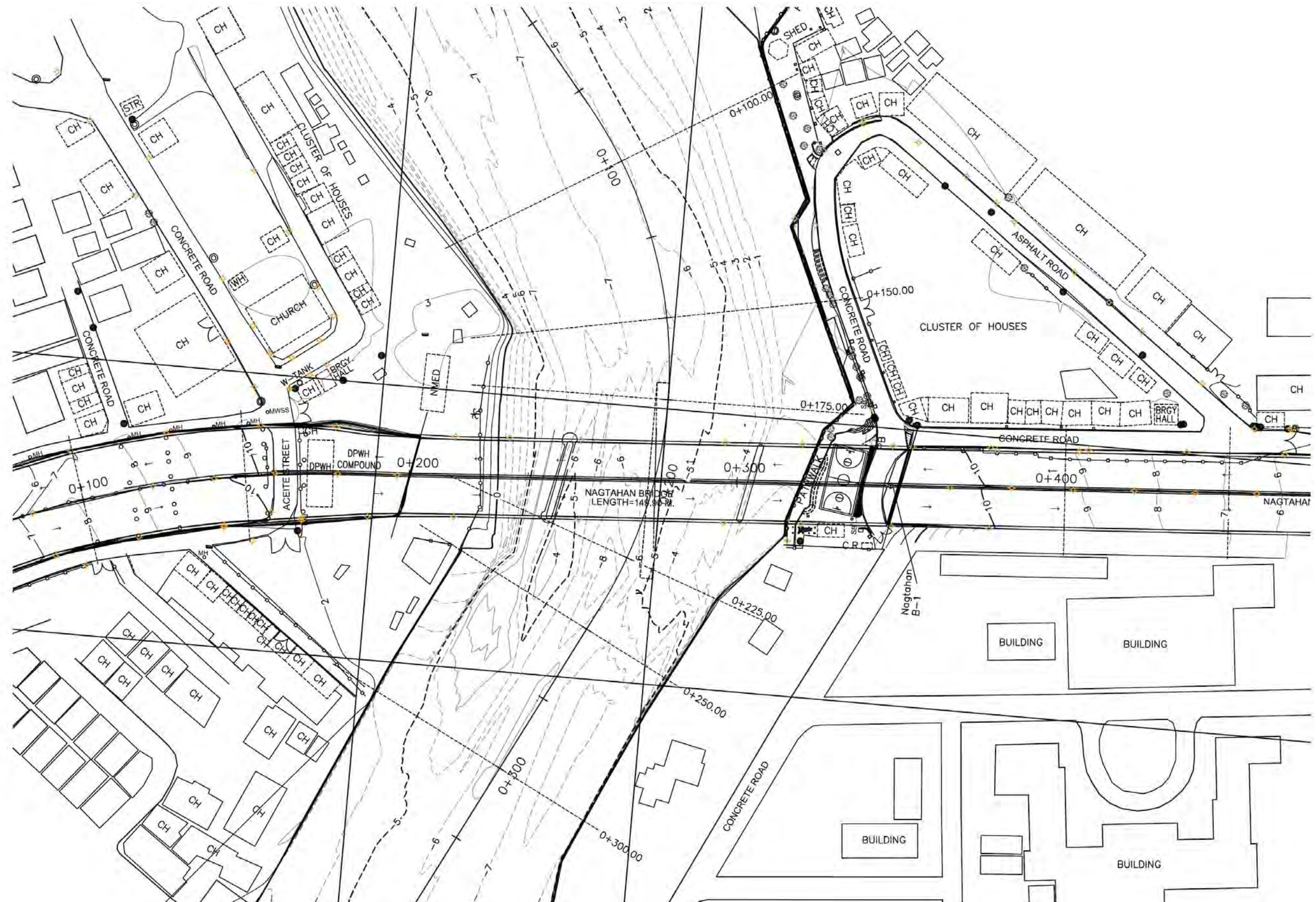
(1) Package B

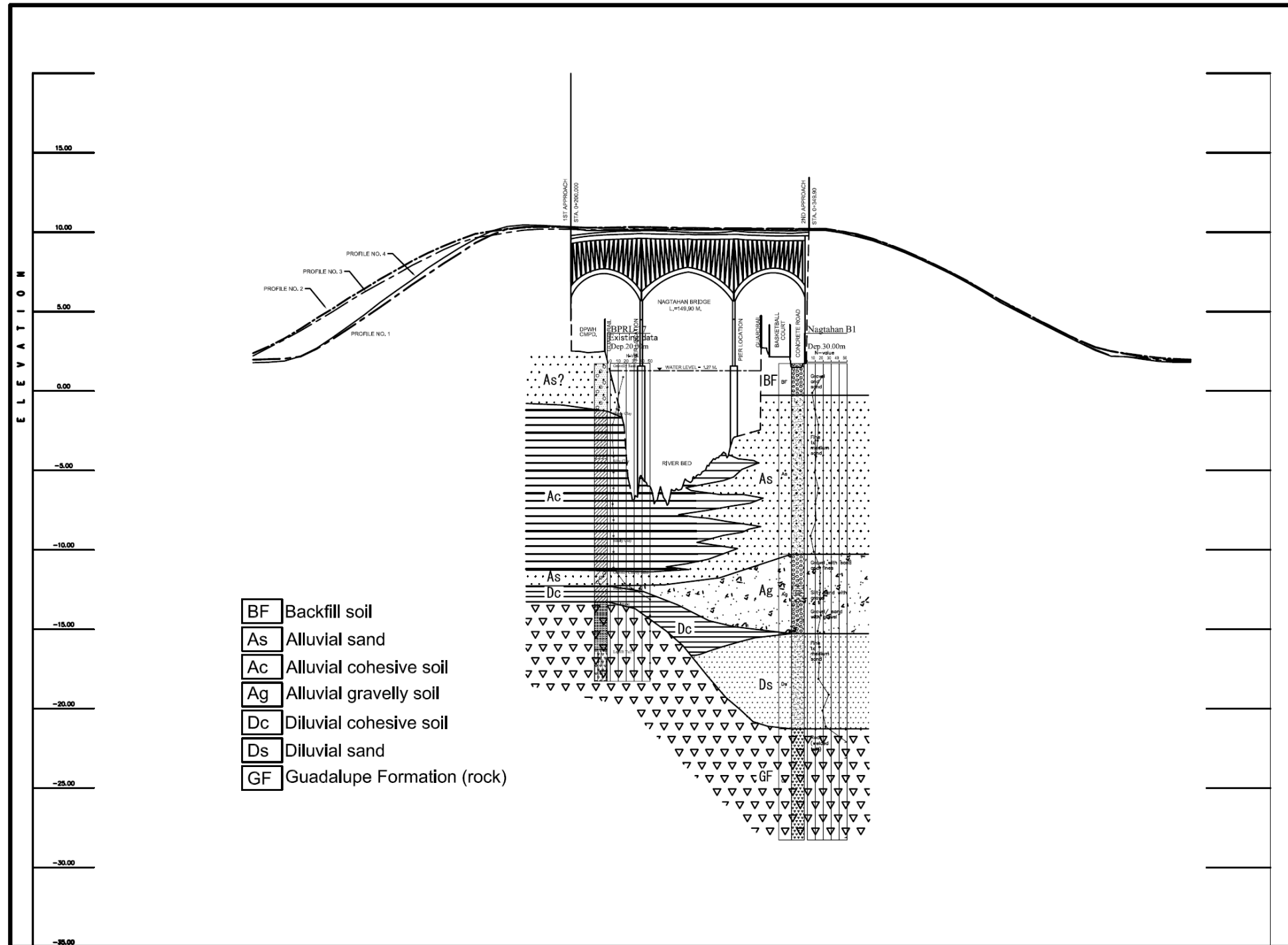
1) Delpan Bridge





2) Nagtahan Bridge

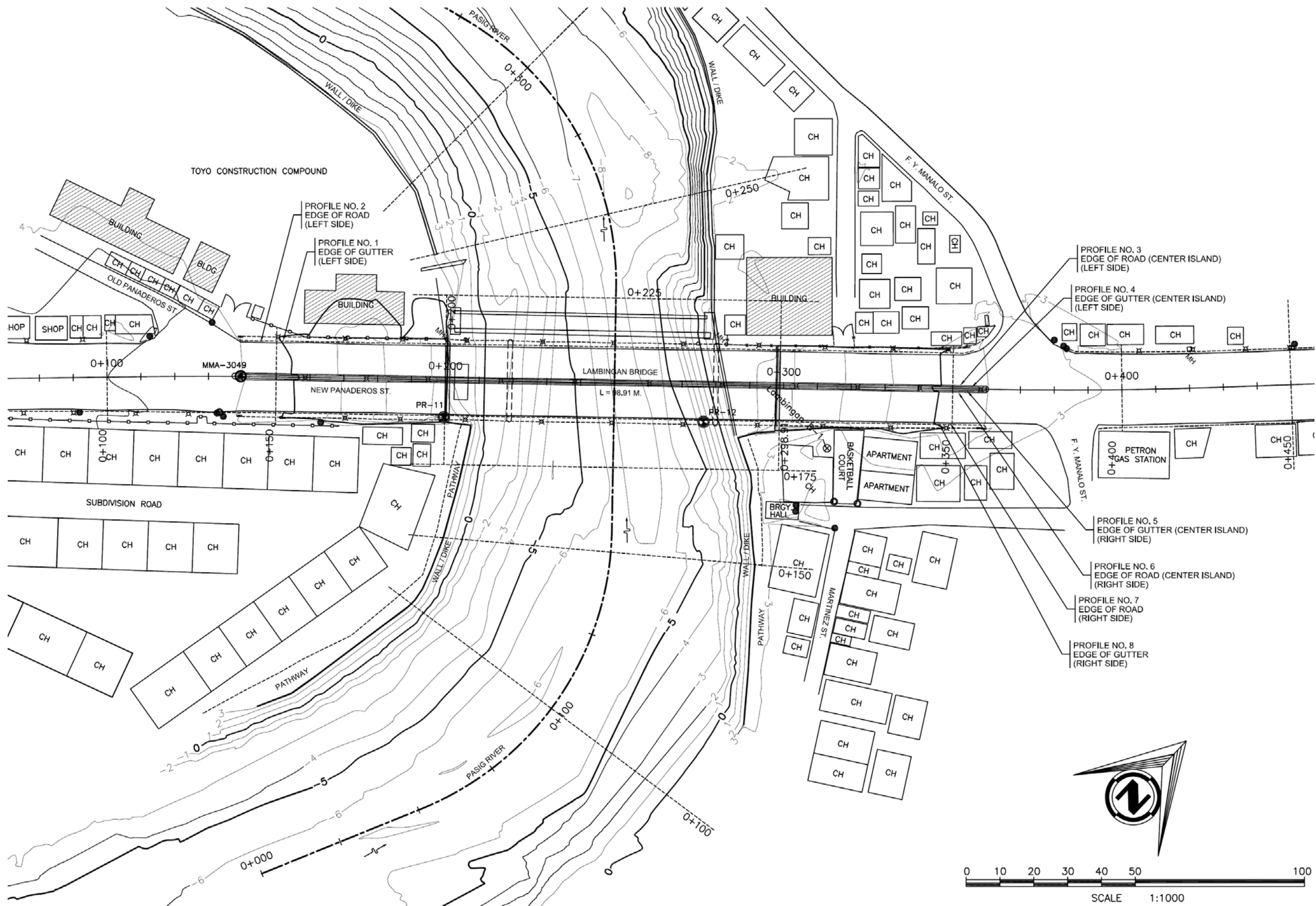


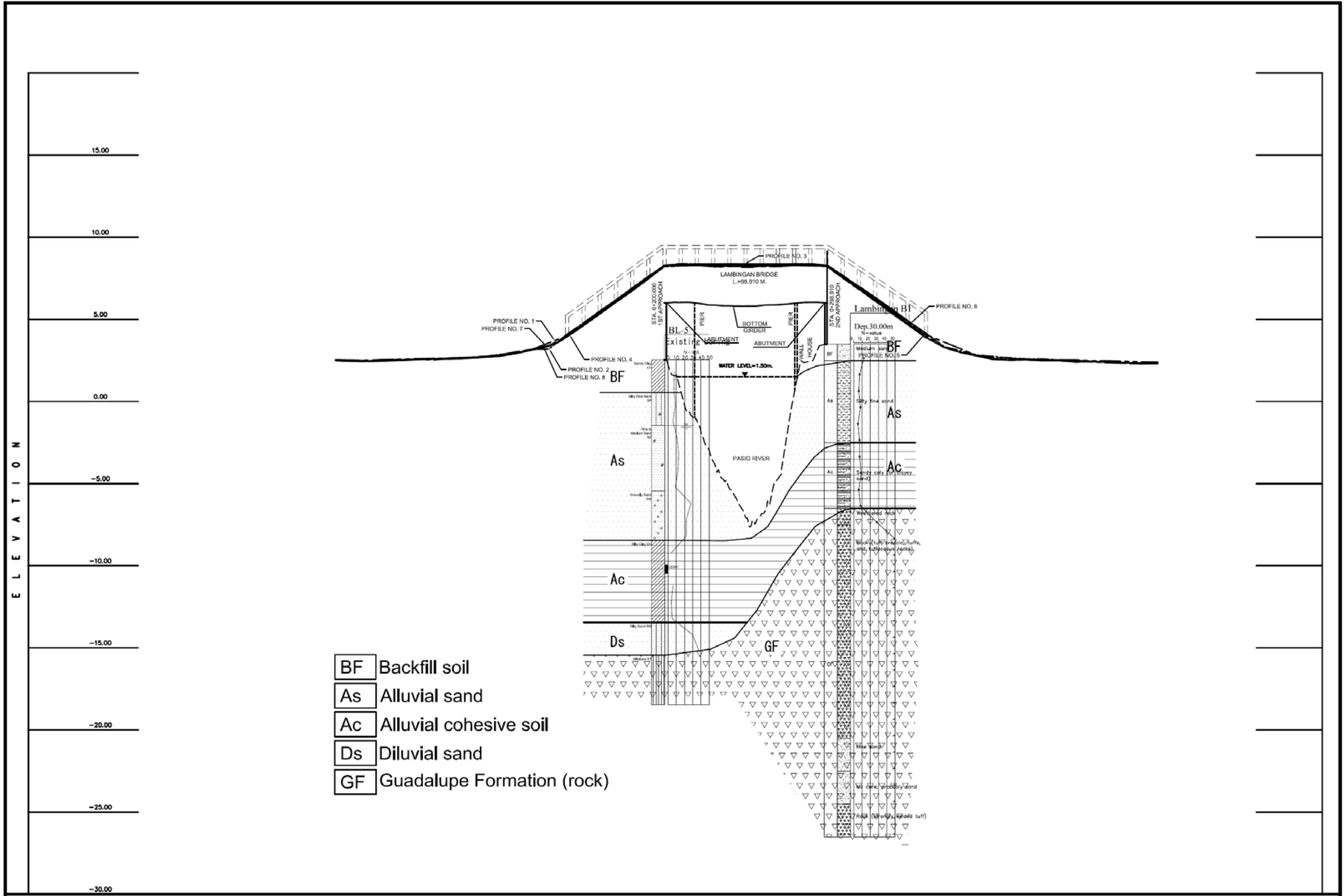


STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+600
PROFILE NO. 1	15.00	14.50	14.00	13.50	13.00	12.50	12.00
PROFILE NO. 2	14.50	14.00	13.50	13.00	12.50	12.00	11.50
PROFILE NO. 3	14.00	13.50	13.00	12.50	12.00	11.50	11.00
PROFILE NO. 4	13.50	13.00	12.50	12.00	11.50	11.00	10.50
PROFILE NO. 5	13.00	12.50	12.00	11.50	11.00	10.50	10.00

SURVEYED BY: ASA ENGINEERING No. 8, 1st Floor, Victoria Park, Quezon City 1106 TEL: (02) 707-1234 FAX: (02) 707-5678 WWW.ASAENGINEERING.COM	SURVEYED FOR: RODRIGO ANGLAS S. ALBERO LIC. 4048 DATE: 3-10-14 PRO. NO. 007500 DATE: 1-20-12	PROJECT & LOCATION: CTI Engineering International Co., Ltd.	LEGEND: AS-BUILT SURVEY OF NAGTAHAN BRIDGE MAGSAYSAN, MANILA CITY	NOTE: 1. CONSIDERED & BASED ON SPAN CONTROL, POINT 88+310 AND PRE-10 COORDINATES 2. AS-BUILT SURVEY IS BASED ON SPAN CONTROL, POINT 88+310, 88+320 & 88+330 3. DATE OF SURVEY: MARCH 10, 2012 4. PRELIMINARY AS-BUILT PLAN AS OF MARCH 8, 2012	SHEET CONTENTS: PRELIMINARY BRIDGE & ROAD PROFILE PROFILE 1 - 4	SCALE: H 1:1000 V 1:100	SHT. NO. A 74
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3) Lambingan Bridge



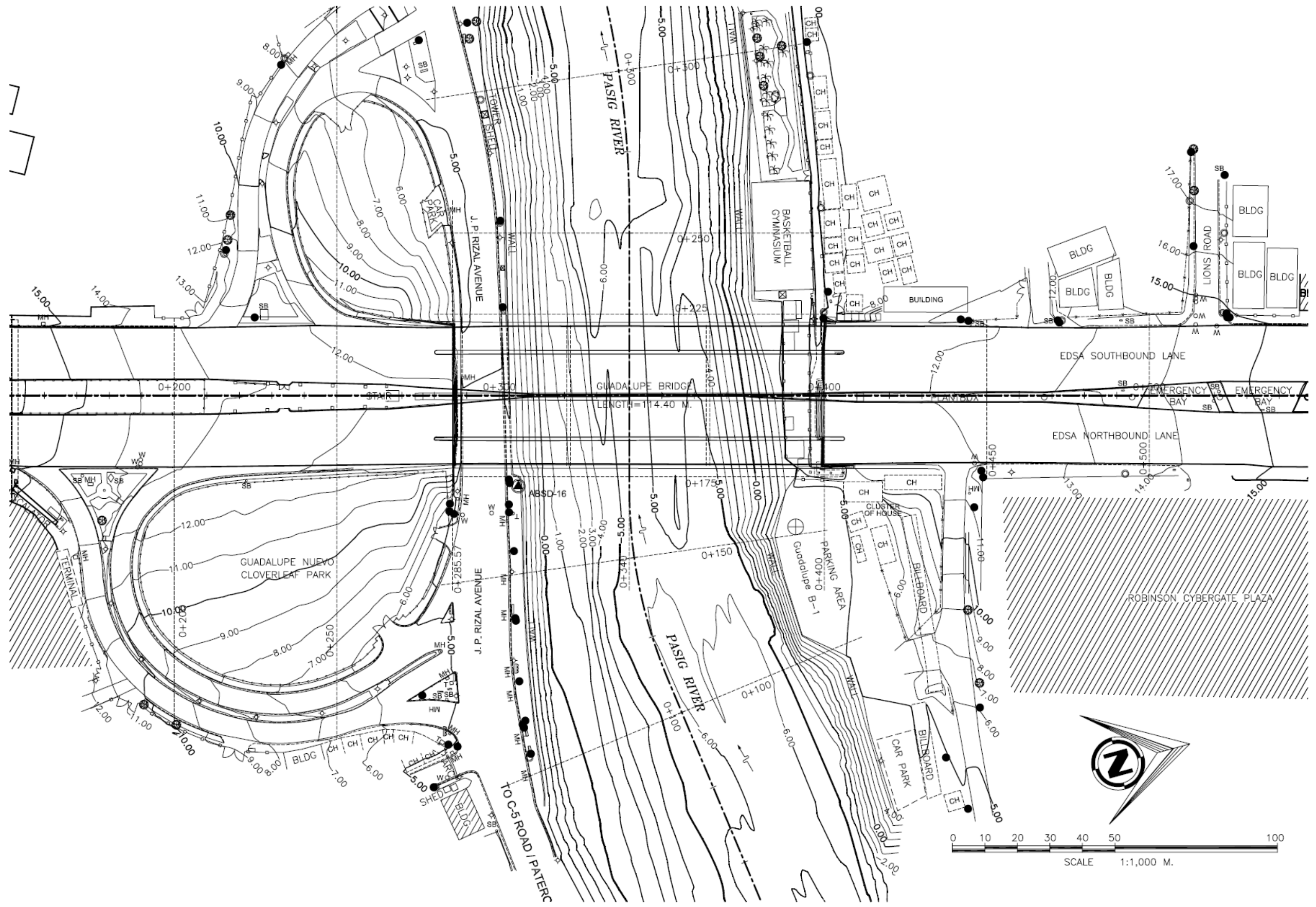


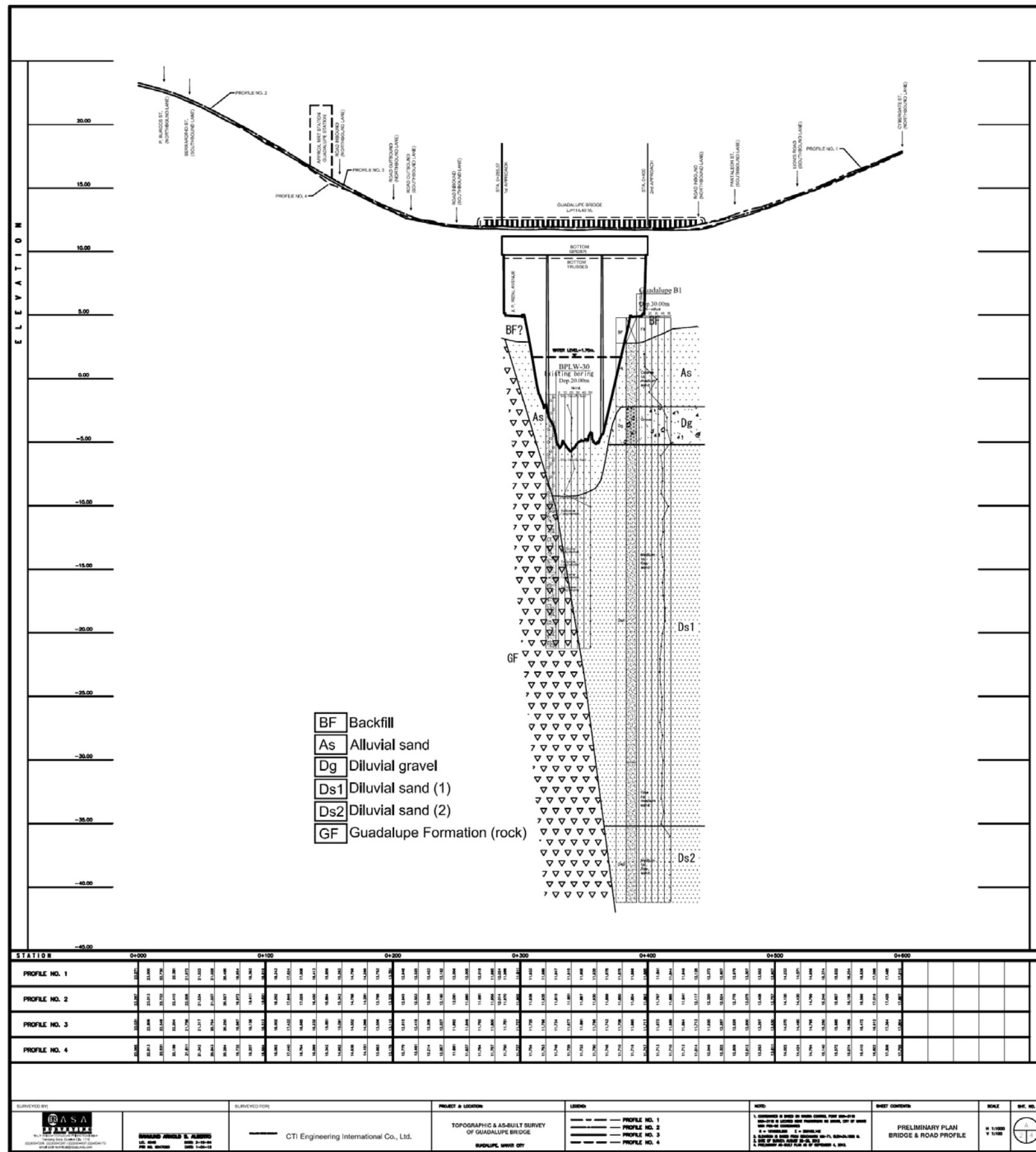
- BF** Backfill soil
- As** Alluvial sand
- Ac** Alluvial cohesive soil
- Ds** Diluvial sand
- GF** Guadalupe Formation (rock)

STATION	0+000	0+100	0+200	0+300	0+400	0+500
PROFILE NO. 1						
PROFILE NO. 2	2.821	2.816	2.812	2.808	2.804	2.800
PROFILE NO. 3						
PROFILE NO. 4						
PROFILE NO. 5						
PROFILE NO. 6						
PROFILE NO. 7	4.08	4.07	4.06	4.05	4.04	4.03
PROFILE NO. 8						

SURVEYED BY: 	SURVEYED FOR: CTI Engineering International Co., Ltd.	PROJECT & LOCATION: TOPOGRAPHIC & AS-BUILT SURVEY OF LAMBINGAN BRIDGE STA. ANA, MINDAO CITY	LEGEND: (Empty legend box)	NOTE: 1. COORDINATES IS BASED ON MARIANA CONTROL POINT 484-349 2. ELEVATION IS BASED ON MARIANA CONTROL POINT 484-349 3. DATE OF SURVEY: OCTOBER 18, 2012 4. PLAN IS OF OCTOBER 18, 2012.	SHEET CONTENTS: PRELIMINARY BRIDGE & ROAD PROFILE	SCALE: H 1:1000 V 1:100	SHEET NO.:
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4) Guadalupe Bridge

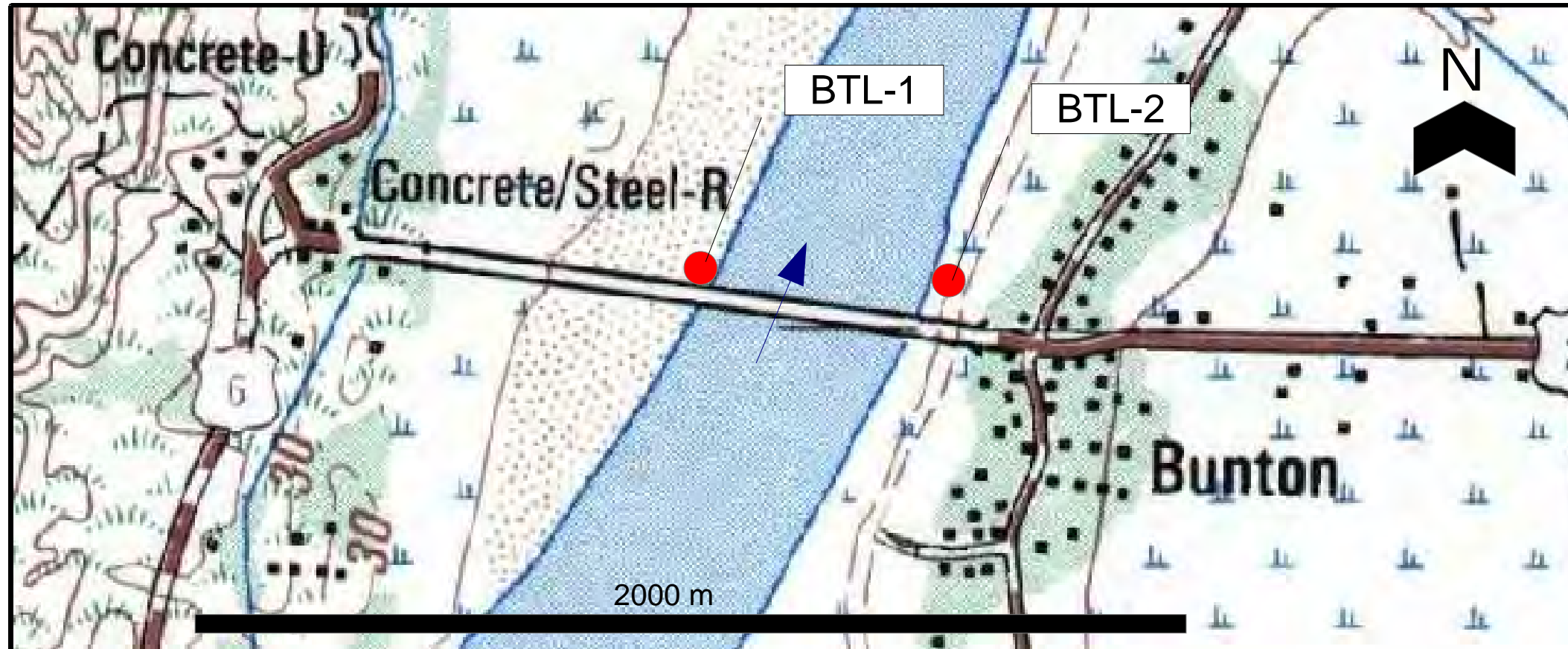


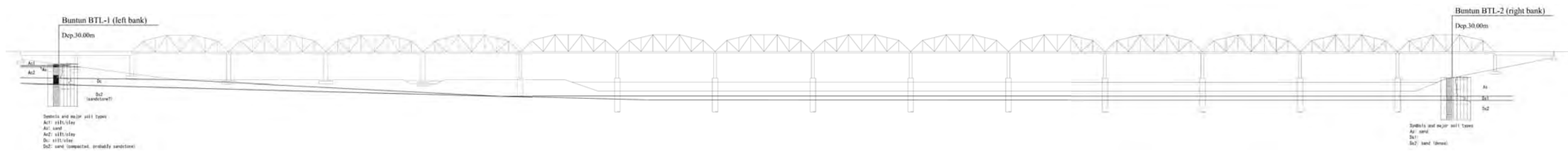
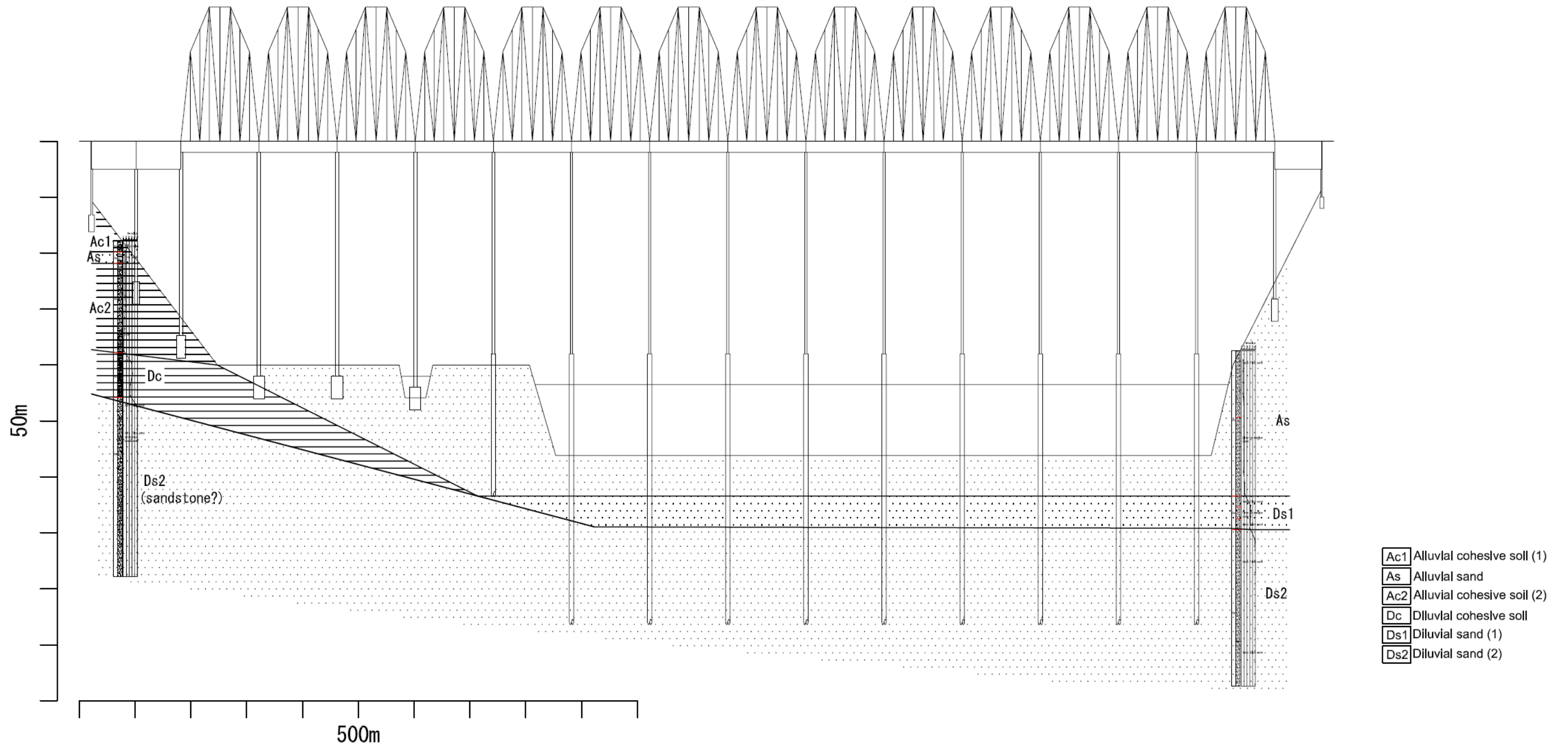


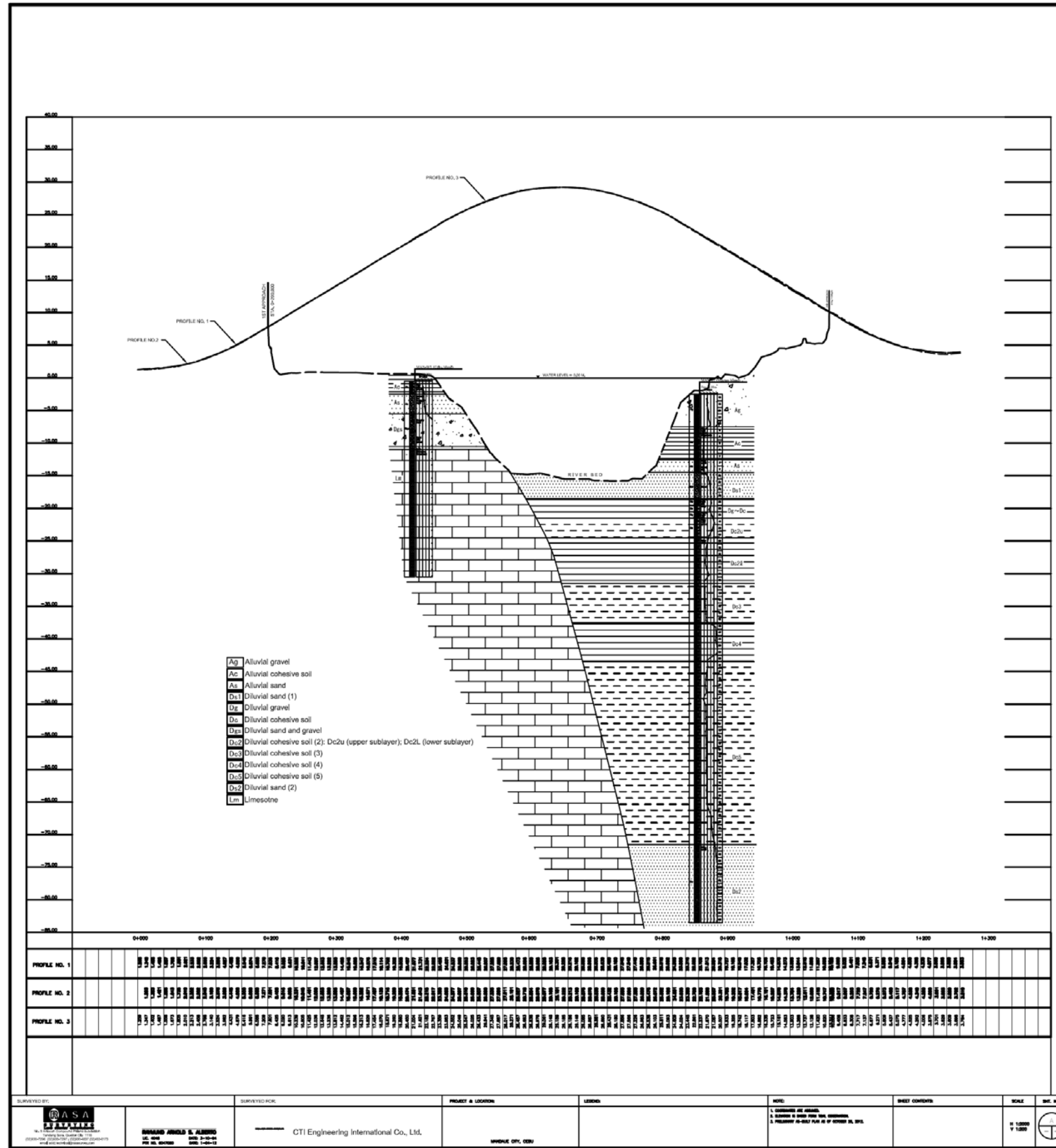
5) Marikina Bridge



- (2) Package C
 - 1) Buntun Bridge



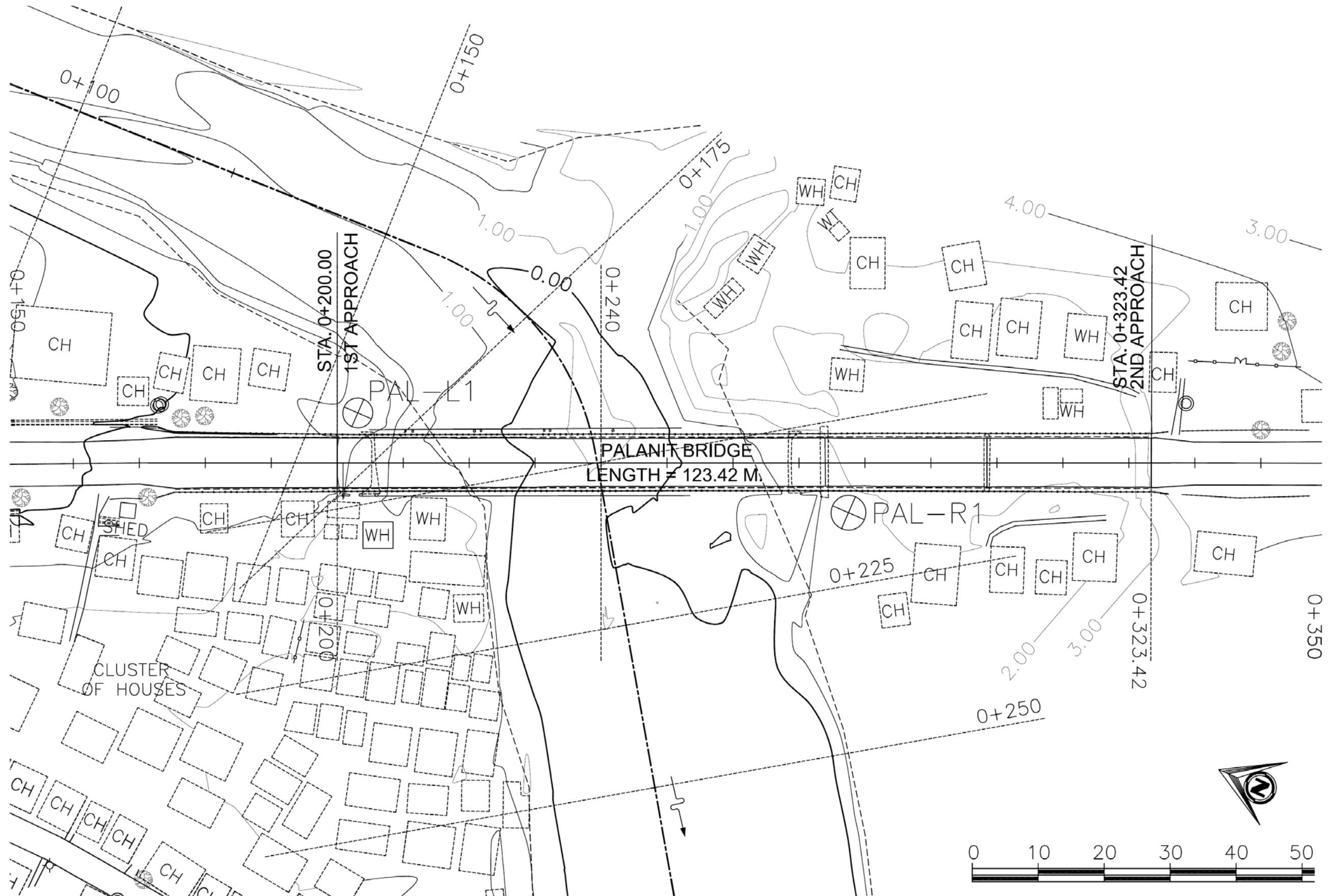


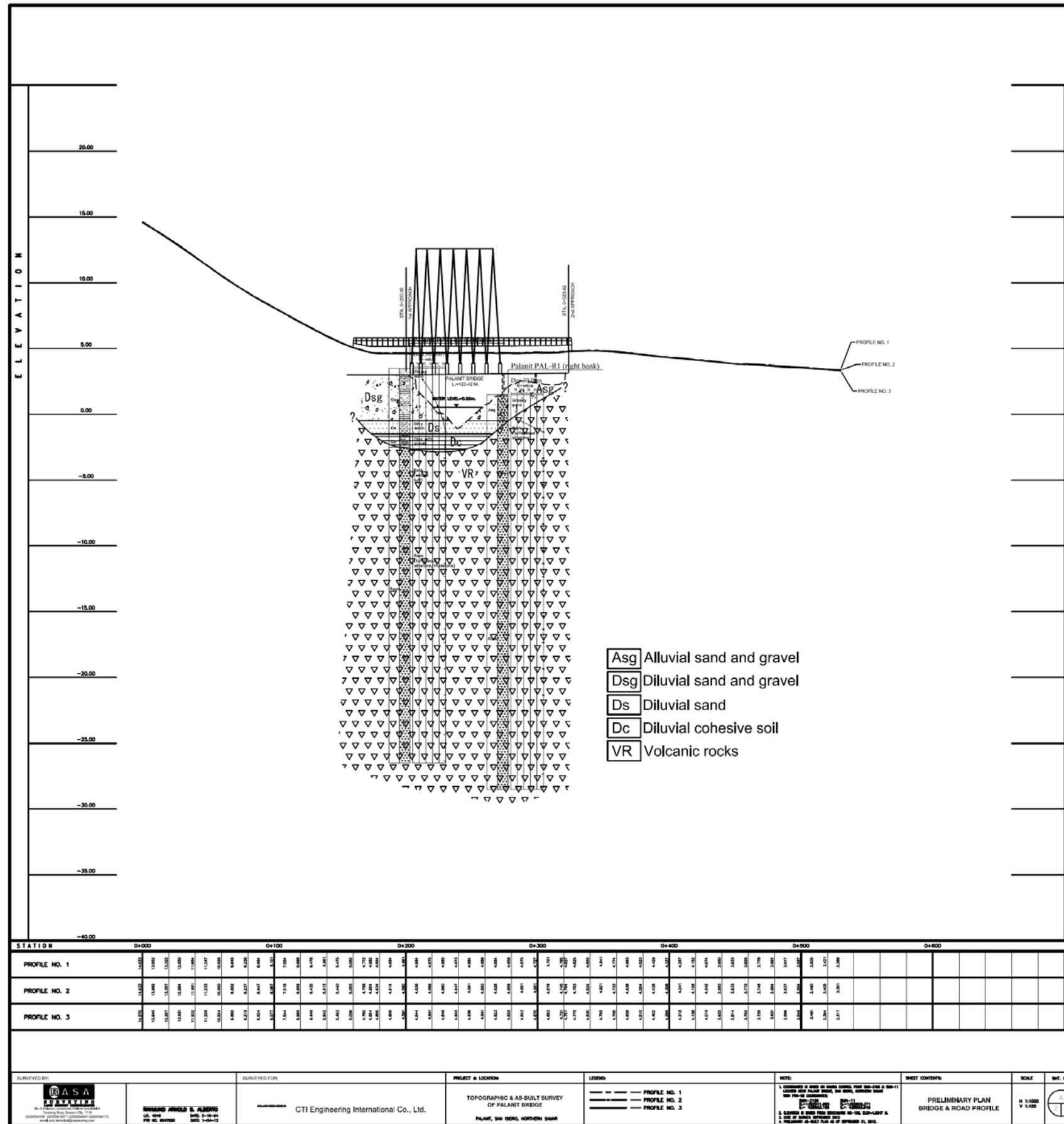


	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000	1+100	1+200	1+300
PROFILE NO. 1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PROFILE NO. 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PROFILE NO. 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

		PROJECT & LOCATION CTI Engineering International Co., Ltd. WHOLE OF, COB	LEGEND 	DATE 	SHEET CONTENTS 	SCALE 1:1000 	SHEET NO.
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3) Palanit Bridge

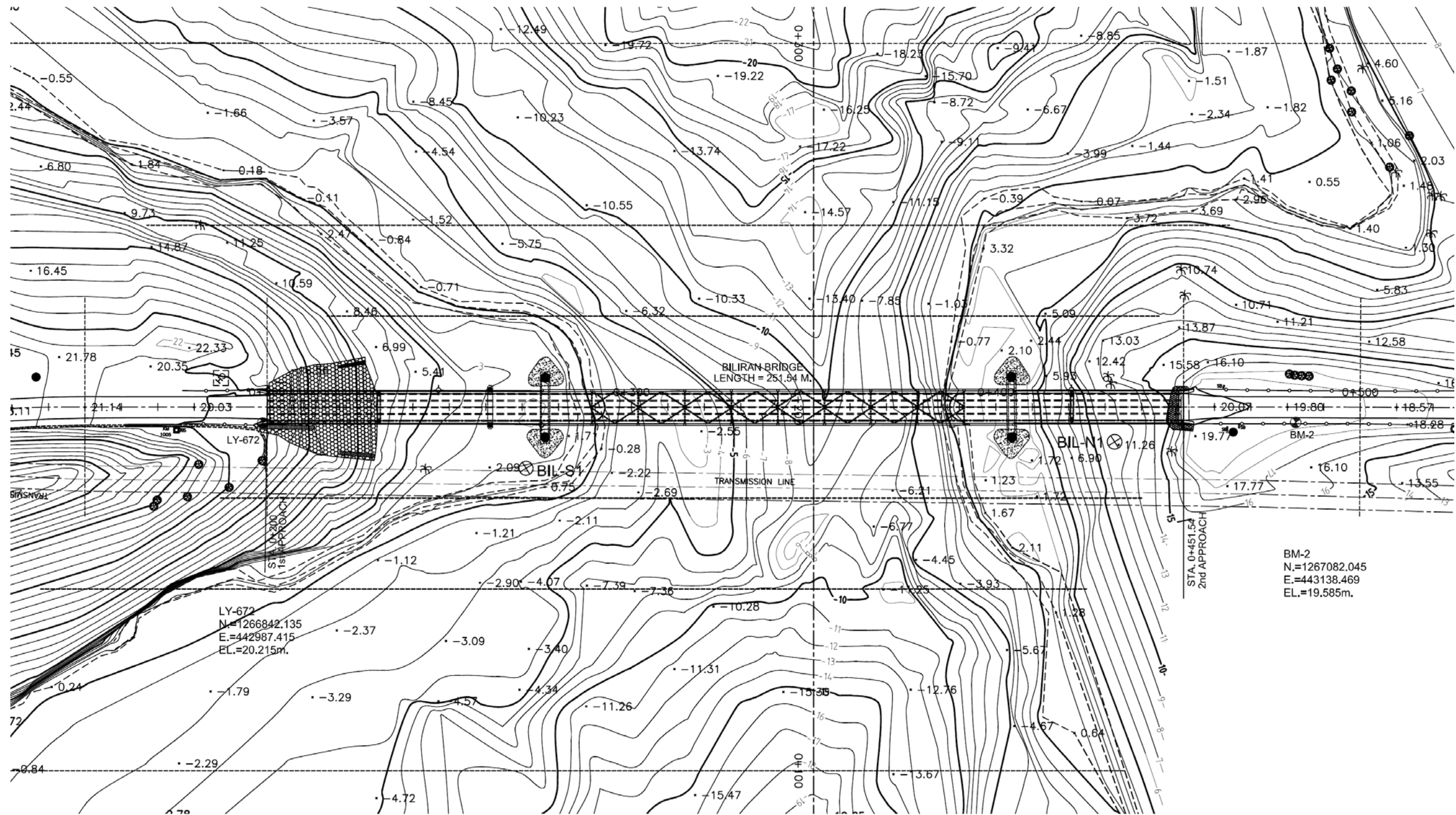




4) Mawo Bridge



5) Biliran Bridge



Depth (m)	Technical log & Sampling	Ground water table	Stratigraphy	Soil description & Classification	Classification	Depth (m)	Standard Penetration Test					Grain size analysis					Atterberg lim.			Physical Characteristics						Vane Test		Shear Test		Triaxial Compression Test				1D Consolidation Test				Depth (m)						
							Blows per 15cm	N (blows/30cm)				Gravel	Sand	Fines < 75 µm	Clay < 2 µm	% Organics	Liquid limit WL	Plastic limit WP	Plasticity index IP	Water content w%	Bulk density g	Dry density gd	Spec. density G	Void ratio e	Saturat. degree Sr%	Cu	(remoulded) Cu,r	Strength (kPa) qu	phi' deg	c' kPa	Test type	phi deg	c kPa	phi' deg	c' kPa	Cc	Cs		Cv cm ² /s	M MPa	Pc kPa			
								0	10	20	30																															40	50	
1	N1			Consolidated clay with gravel	-	1	30	50	0		3.1	94.7	2.2																												1			
2	N2			Andesite (lava) between -1 m and -7 m: slightly weathered below -7 m: relatively fresh medium hard to hard rock Blakish-gray/dark-gray colored CL-CH class	-	2	0	50	0																																2			
3	N3					-	3	0	50	0																																3		
4	N4					-	4	0	50	0																																	4	
5	N5					-	5	0	50	0																																	5	
6	N6					-	6	0	50	0																																	6	
7	N7					-	7	0	50	0																																	7	
8	N8					-	8	0	50	0																																	8	
9	N9				-	9	0	50	0																																	9		
10	N10				-	10	0	50	0																																	10		
11	N11				-	11	0	50	0																																	11		
12	N12				-	12	0	50	0																																	12		
13	N13				-	13	0	50	0																																	13		
14	N14				-	14	0	50	0																																	14		
15	N15				-	15	0	50	0																																	15		
16	N16				-	16	0	50	0																																	16		
17	N17			Basalt mainly auto-breccia dark-green/dark-gray colored medium hard rock CM-CH class	-	17	0	50	0																																		17	
18	N18					-	18	0	50	0																																	18	
19	N19					-	19	0	50	0																																		19
20	N20					-	20	0	50	0																																		20
21	N21					-	21	0	50	0																																		21
22	N22					-	22	0	50	0																																		22
23	N23					-	23	0	50	0																																		23
24	N24					-	24	0	50	0																																	24	
25	N25					-	25	0	50	0																																		25
26	N26					-	26	0	50	0																																	26	
27	N27					-	27	0	50	0																																	27	
28	N28					-	28	0	50	0																																	28	
29	N29					-	29	0	50	0																																	29	
30	N30				-	30	0	50	0																																	30		

30.00 m : End of borehole.

Drawing scale: 1/200

ABBREVIATIONS

- D: Disturbed core barrel sample
- C: Dry core barrel sample
- U: Undisturbed stationary double tube sample
- N: Split spoon sample
- g: Bulk density (kN/m³)
- gd: Dry density (kN/m³)
- G: Specific density (kN/m³)
- Cu - Cu,r: Undrained strength from VST (kPa)
- qu: Unconfined compression strength (kPa)
- CU: Consolidated sample, undrained loading conditions
- UU: Unconsolidated sample, undrained loading conditions
- CUPP: Consolidated sample, undrained loading conditions with pore pressure measurements
- CD: Consolidated sample, drained loading conditions
- phi, c: Friction angle, cohesion (total values)
- phi', c': Friction angle, cohesion (effective values)
- Cc, Cs: Compression index (loading, unloading)
- Cv: Consolidation coefficient
- M: Compression modulus
- Pc: Effective preconsolidation stress

Depth (m)	Technical log & Sampling	Ground water table	Stratigraphy	Soil description & Classification	Classification	Depth (m)	Standard Penetration Test					Grain size analysis					Atterberg lim.			Physical Characteristics					Vane Test		Shear Test		Triaxial Compression Test				1D Consolidation Test					Depth (m)
							Blows per 15cm	N (blows/30cm)				Gravel	Sand	Fines < 75 µm	Clay < 2 µm	% Organics	Liquid limit WL	Plastic limit WP	Plasticity index IP	Water content w%	Bulk density g	Dry density gd	Spec. density G	Void ratio e	Saturat. degree Sr%	Cu	Cu,r (remoulded)	Strength (kPa) qu	phi' deg	c' kPa	Test type	phi deg	c kPa	phi' deg	c' kPa	Cc	Cs	
1	N1			Clay with gravel including 15 mm gravel moderate water content dark-brown colored		1	9	2	3	5	0.0	31.9	68.1				5.0	47.4																				1
2	N2					2	25	30	20	50	0.0	82.7	17.4					47.6																			2	
3	N3		3.10	Andesite blackish gray/black colored medium hard rock relatively fresh, sometime slightly weathered		3	0	50	0	50																											3	
4	N4					4	0	50	0	50																											4	
5	N5					5	0	50	0	50																											5	
6	N6					6	0	50	0	50																											6	
7	N7					7	0	50	0	50																											7	
8	N8					8	0	50	0	50																											8	
9	N9					9	0	50	0	50																											9	
10	N10					10	0	50	0	50																											10	
11	N11					11	0	50	0	50																											11	
12	N12					12	0	50	0	50																											12	
13	N13					13	0	50	0	50																											13	
14	N14					14	0	50	0	50																											14	
15	N15					15	0	50	0	50																											15	
16	N16					16	0	50	0	50																											16	
17	N17					17	0	50	0	50																											17	
18	N18					18	0	50	0	50																											18	
19	N19					19	0	50	0	50																											19	
20	N20					20	0	50	0	50																											20	
21	N21					21	0	50	0	50																											21	
22	N22					22	0	50	0	50																											22	
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24	N24					24	0	50	0	50																											24	
25	N25					25	0	50	0	50																											25	
26	N26					26	0	50	0	50																											26	
27	N27					27	0	50	0	50																											27	
28	N28					28	0	50	0	50																											28	
29	N29					29	0	50	0	50																											29	
30	N30					30	0	50	0	50																											30	

30.00 m : End of borehole.

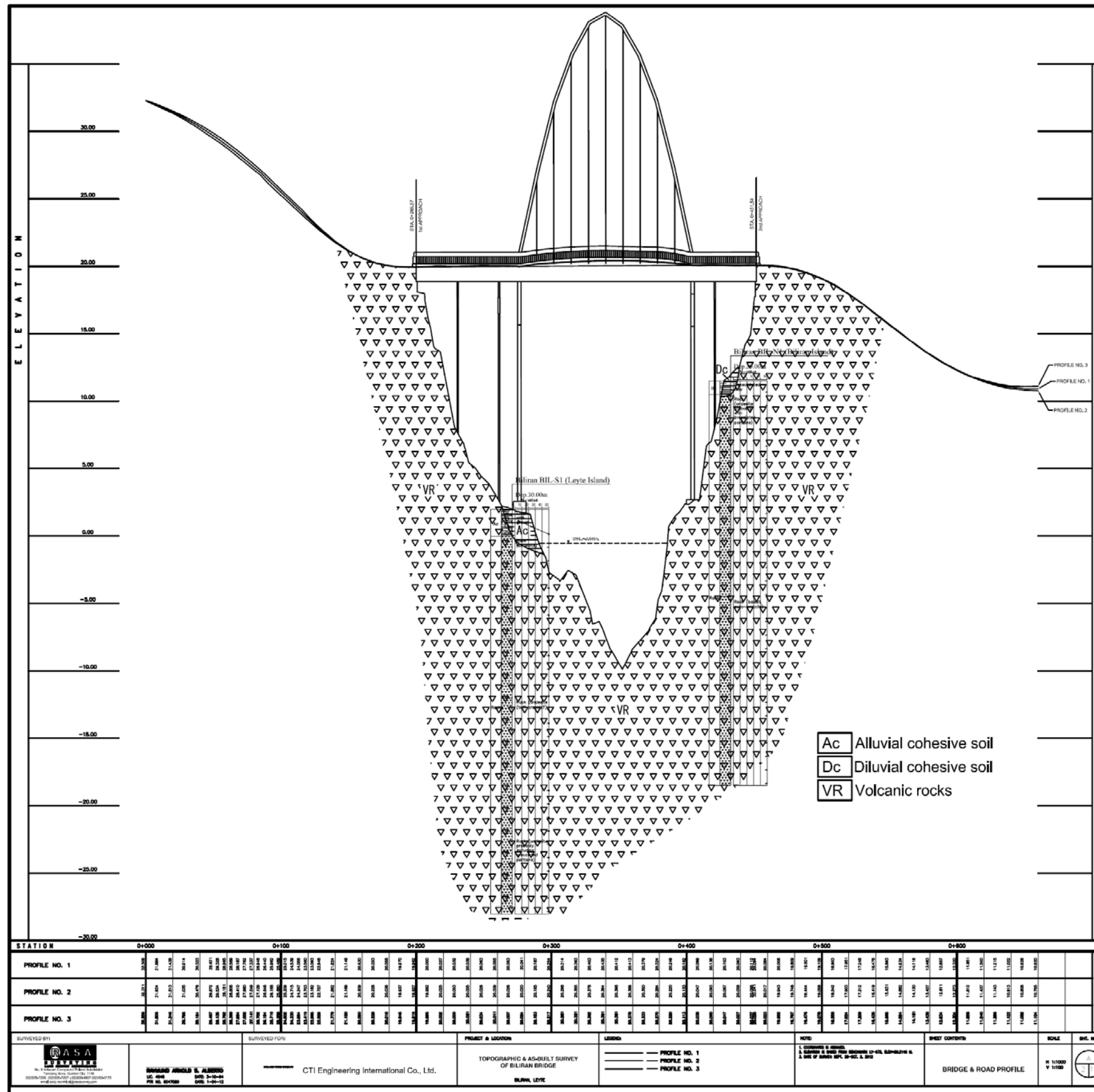
Drawing scale: 1/200

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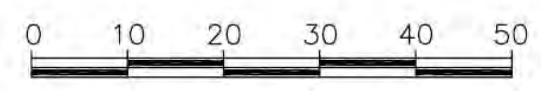
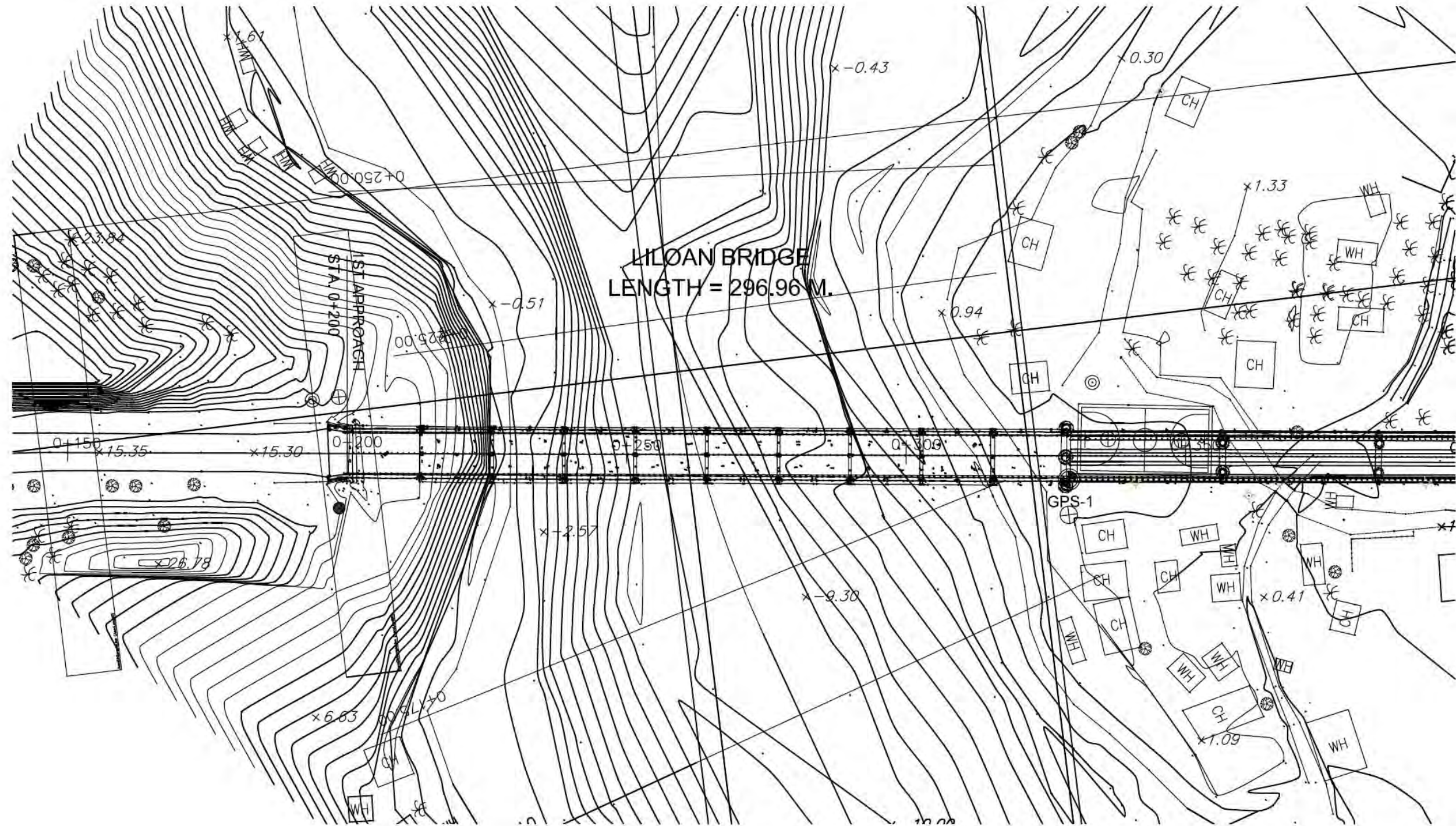
g: Bulk density (kN/m³)
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 G: Specific density (kN/m³)
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 qu: Unconfined compression strength (kPa)

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 CU:PP: Consolidated sample, undrained loading conditions with pore pressure measurements
 CD: Consolidated sample, drained loading conditions
 phi, c: Friction angle, cohesion (total values)

phi', c': Friction angle, cohesion (effective values)
 Cc, Cs: Compression index (loading, unloading)
 Cv: Consolidation coefficient
 M: Compression modulus
 Pc: Effective preconsolidation stress



6) Liloan Bridge



Depth (m)	Technical log & Sampling	Ground water table	Stratigraphy	Soil description & Classification	Classification	Depth (m)	Standard Penetration Test					Grain size analysis					Atterberg lim.			Physical Characteristics					Vane Test		Shear Test		Triaxial Compression Test				1D Consolidation Test					Depth (m)			
							Blows per 15cm					Gravel	Sand	Fines < 75 µm	Clay < 2 µm	% Organics	Liquid limit	Plastic limit	Plasticity index	Water content	Bulk density	Dry density	Spec. density	Void ratio	Saturat. degree	Cu	Cu,r	Strength (kPa)	phi'	c'	Test type	phi	c	phi'	c'	Cc	Cs		Cv	M	Pc
							0	10	20	30	40	50						WL	WP	IP	w%	g	gd	G	e	Sr%			qu	deg	kPa			deg	kPa				cm ² /s	MPa	kPa
1	N1			Sandy silt (residual soil as weathered limestone) white colored relatively high water content	-	1	19	50	0	0.0	66.4	13.6																													
2	N2			Limestone		2	0	50	0																																
3	N3			coral/silty-sandy limestone relatively high porosity including fossils and calcite soft rock CL class		3	0	50	0																																
4	N4					4	0	50	0																																
5	N5					5	22	25	25																																
6	N6					6	18	50	0																																
7	N7					7	0	50	0																																
8	N8					8	0	50	0																																
9	N9					9	0	50	0																																
10	N10					10	0	50	0																																
11	N11					11	0	50	0																																
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26	N26					26	0	50	0																																
27	N27					27	0	50	0																																
28	N28					28	0	50	0																																
29	N29					29	0	50	0																																
30	N30					30	0	50	0																																

30.00 m : End of borehole.

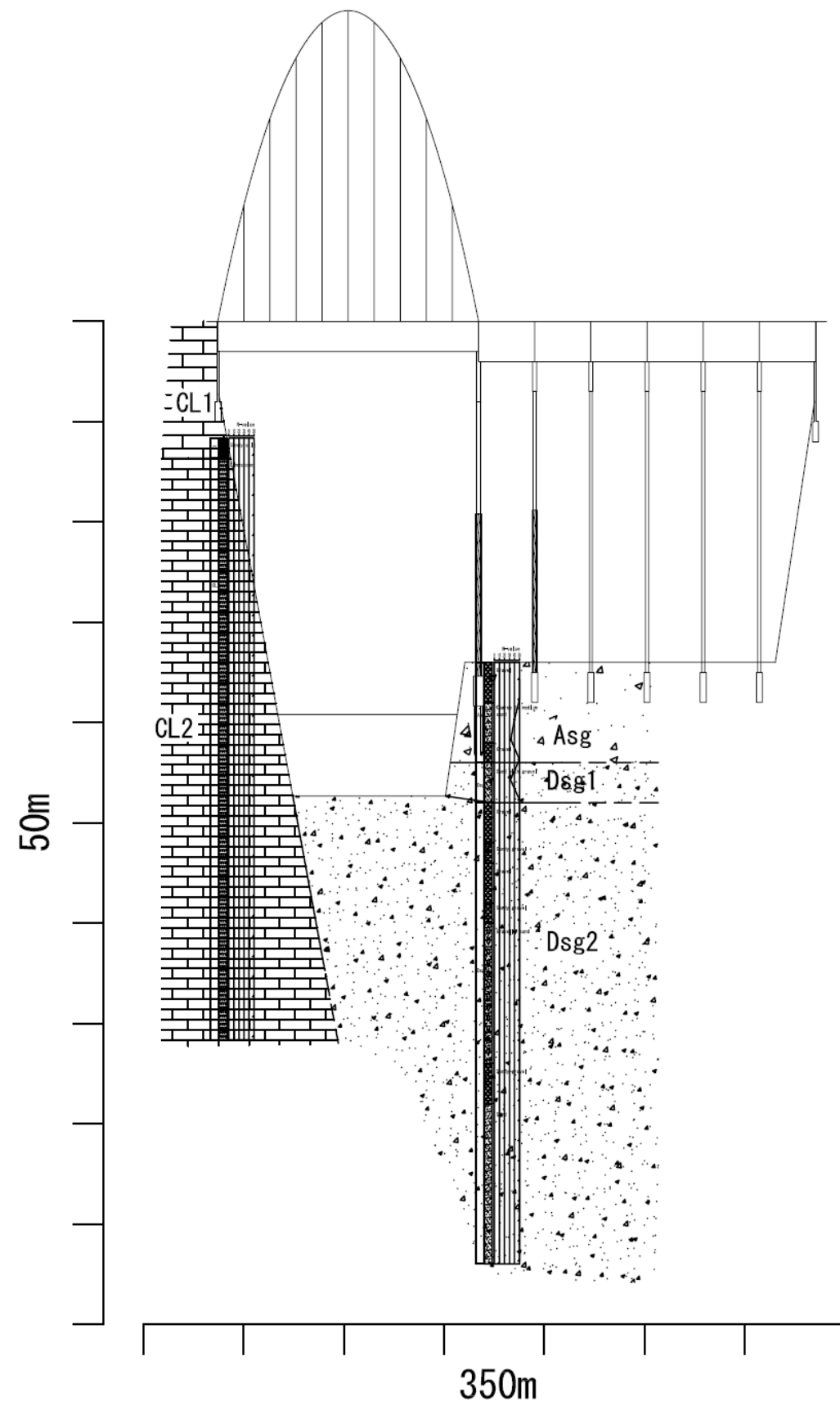
Drawing scale: 1/200

ABBREVIATIONS
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G: Specific density (kN/m³)
Cu - Cu,r: Undrained strength form VST (kPa)
qu: Unconfined compression strength (kPa)

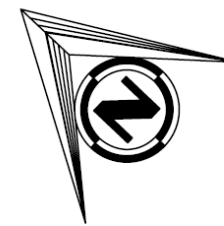
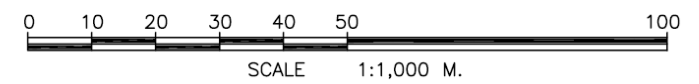
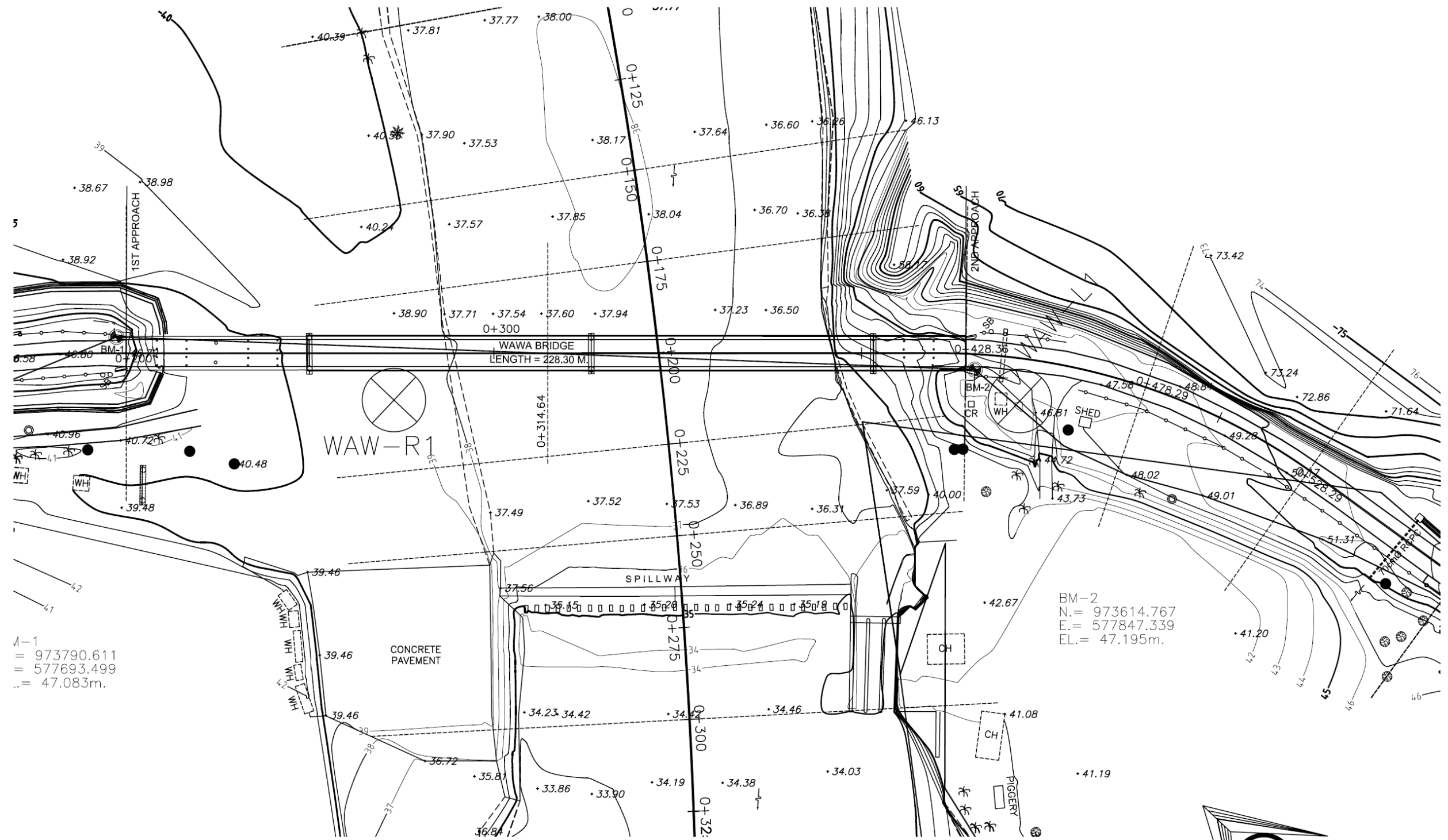
CU: Consolidated sample, undrained loading conditions
UU: Unconsolidated sample, undrained loading conditions
CUPP: Consolidated sample, undrained loading conditions with pore pressure measurements
CD: Consolidated sample, drained loading conditions
phi, c: Friction angle, cohesion (total values)

phi', c': Friction angle, cohesion (effective values)
Cc, Cs: Compression index (loading, unloading)
Cv: Consolidation coefficient
M: Compression modulus
Pc: Effective preconsolidation stress



- Asg Alluvial sand and gravel
- Dsg1 Diluvial sand and gravel (1)
- Dsg2 Diluvial sand and gravel (2)
- CL1 Limestone (silty clay; strongly weathered rock)
- CL2 Coralline limestone

7) Wawa Bridge



Depth (m)	Technical log & Sampling	Ground water table	Stratigraphy	Soil description & Classification	Classification	Depth (m)	Standard Penetration Test		Grain size analysis					Atterberg lim.			Physical Characteristics					Vane Test		Shear Test		Triaxial Compression Test				1D Consolidation Test				Depth (m)				
							Blows per 15cm	N (blows/30cm)	Gravel	Sand	Fines < 75 µm	Clay < 2 µm	% Organics	Liquid limit WL	Plastic limit WP	Plasticity index IP	Water content w%	Bulk density g	Dry density gd	Spec. density G	Void ratio e	Saturat. degree Sr%	Cu	Cu,r (remoulded)	Strength (kPa) qu	phi' deg	c' kPa	Test type	phi deg	c kPa	phi' deg	c' kPa	Cc		Cs	Cv cm ² /s	M MPa	Pc kPa
1	N1			Clay with gravel relatively low water content including gravels of 10-40 mm in diameter brownish-gray colored	-	1	7	9	11	20	11.8	88.0	0.2					20.3																			1	
2	N2					2	8	10	15	25	26.3	73.3	0.4					20.2																			2	
3	N3					3	7	10	17	27	0.9	96.6	2.5					22.0																			3	
4	N4					4	10	12	18	30	2.4	97.4	0.2					18.3																			4	
5	N5			Clay with gravel including gravel of 20-30 mm in diameter relatively low water content blackish-brown colored	-	5	8	11	19	30	0.0	99.5	0.5					29.5																			5	
6	N6					6	9	10	20	30	3.7	95.8	0.5					27.4																			6	
7	N7			Clay with gravel relatively high-moderate water content dark-gray/blackish-gray colored	-	7	10	15	25	40	0.0	11.1	89.0					32.3																			7	
8	N8					8	10	19	30	49	0.0	99.5	0.5					41.1																			8	
9	N9					9	0	50	0	50	0.0	99.7	0.3					43.8																			9	
10	N10			Clay with gravel relatively high-moderate water content dark-gray/blackish-gray colored medium soft/hard	-	10	12	15	35	50	0.0	99.7	0.3					42.4																			10	
11	N11					11	11	17	33	50	0.0	5.6	94.5					19.0																			11	
12	N12					12	0	50	0	50	0.0	8.8	91.2					10.0																			12	
13	N13			Clay with gravel relatively high-moderate water content dark-gray/blackish-gray colored relatively hard	-	13	0	50	0	50	0.0	3.4	96.6					30.0																			13	
14	N14					14	0	50	0	50	0.0	1.9	98.1					14.0																			14	
15	N15					15	0	50	0	50	0.0	1.6	98.4					11.0																			15	
16	N16			Clay relatively high water content greenish-gray colored	-	16	10	11	30	41	0.0	3.0	97.0					22.0																			16	
17	N17					17	10	10	35	45	0.0	1.3	98.7					11.0																			17	
18	N18			Clay relatively low water content bluish-gray/greenish-gray colored soft-hard, sometime consolidated	-	18	12	14	30	44	0.0	3.3	96.8					12.0																				18
19	N19					19	12	15	27	42	0.0	11.7	88.3					11.0																			19	
20	N20					20	15	15	35	50	0.0	33.3	66.7					18.0																			20	
21	N21			Clay sometime with gravel medium-soft hard dark-greenish-gray colored moderate water content relatively consolidated below -29 m	-	21	20	21	32	53	0.0	31.4	68.6					8.0																			21	
22	N22					22	21	23	30	53	0.0	89.2	10.8					47.8																			22	
23	N23					23	20	25	27	52	0.0	5.3	94.8					5.0																			23	
24	N24					24	21	26	25	51	0.0	8.7	91.3					9.0																			24	
25	N25					25	22	25	33	58	0.0	6.4	93.6					4.0																			25	
26	N26					26	23	27	34	61	0.0	9.7	90.3					6.0																			26	
27	N27					27	25	25	30	55	0.0	5.6	94.4					17.0																			27	
28	N28					28	20	26	25	51	0.0	10.5	89.5					14.0																			28	
29	N29					29	22	27	36	63	0.0	99.6	0.4					7.0																			29	
30	N30					30	25	36	35	71	0.0	97.4	2.6					22.0																			30	

ABBREVIATIONS

D: Disturbed core barrel sample
C: Dry core barrel sample
U: Undisturbed stationary double tube sample
N: Split spoon sample

g: Bulk density (kN/m³)
gd: Dry density (kN/m³)
G: Specific density (kN/m³)
Cu - Cu,r: Undrained strength from VST (kPa)
qu: Unconfined compression strength (kPa)

CU: Consolidated sample, undrained loading conditions
UU: Unconsolidated sample, undrained loading conditions
CUPP: Consolidated sample, undrained loading conditions with pore pressure measurements
CD: Consolidated sample, drained loading conditions
phi, c: Friction angle, cohesion (total values)

phi', c': Friction angle, cohesion (effective values)
Cc, Cs: Compression Index (loading, unloading)
Cv: Consolidation coefficient
M: Compression modulus
Pc: Effective preconsolidation stress

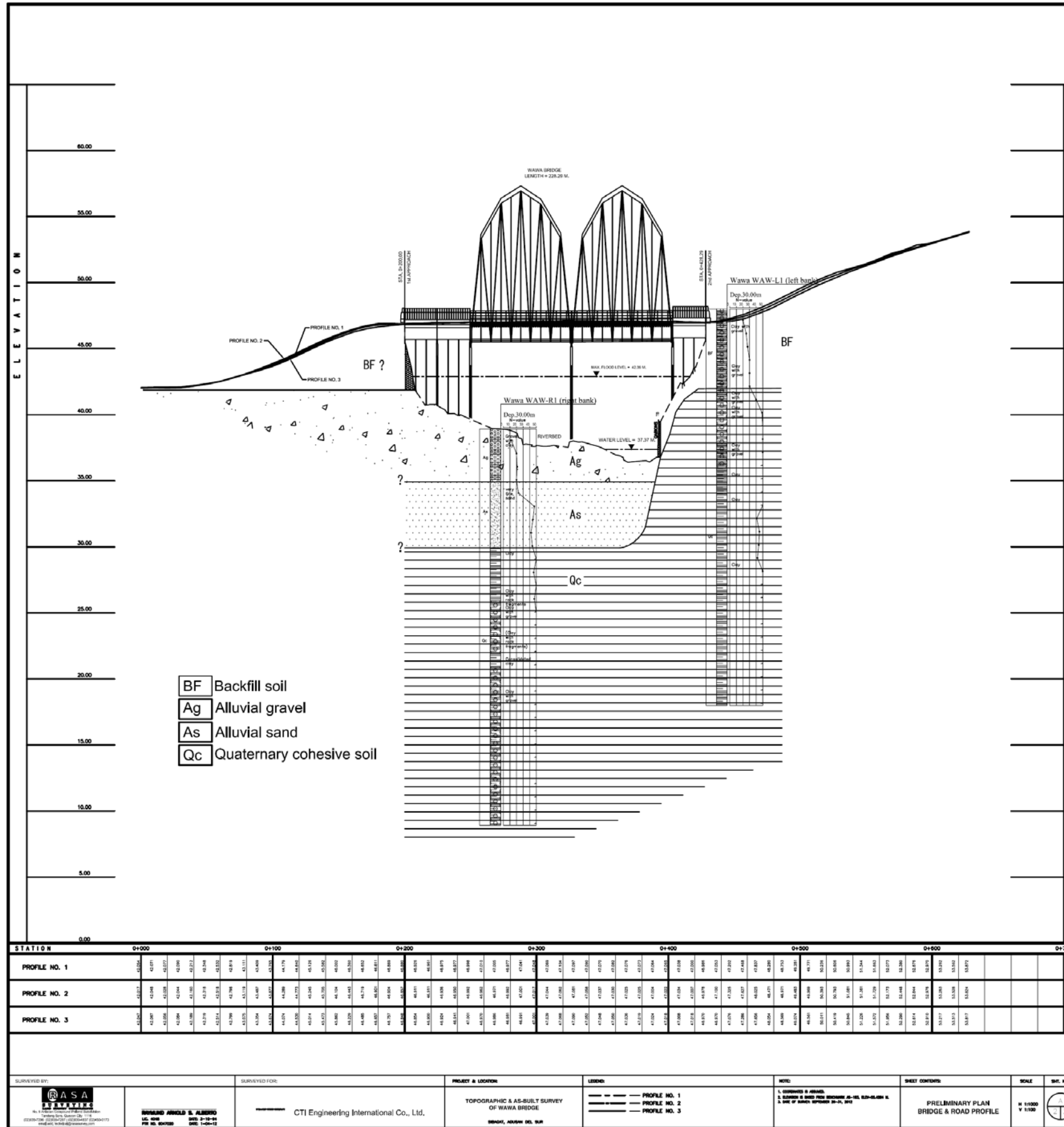
Depth (m)	Technical log & Sampling	Ground water table	Stratigraphy	Soil description & Classification	Classification	Depth (m)	Standard Penetration Test					Grain size analysis					Atterberg lim.			Physical Characteristics						Vane Test		Shear Test		Triaxial Compression Test				1D Consolidation Test					Depth (m)	
							Blows per 15cm	N (blows/30cm)				Gravel	Sand	Fines < 75 μm	Clay < 2 μm	% Organics	Liquid limit WL	Plastic limit WP	Plasticity index IP	Water content w%	Bulk density g	Dry density gd	Spec. density G	Void ratio e	Saturat. degree Sr%	Cu	Cu,r (remoulded)	Strength (kPa) qu	phi' deg	c' kPa	Test type	phi deg	c kPa	phi' deg	c' kPa	Cc	Cs	Cv cm ² /s		M MPa
1	N1			Gravel with clay relatively high water content including gravels of 15 mm brownish-gray/yellowish-gray colored		1	4	4	8	12																														1
2	N2					2	7	10	10	20																														2
3	N3					3	9	9	12	21																														3
4	N4					4	8	10	10	20																														4
5	N5					5	10	9	14	23																														5
6	N6					6	11	17	30	47																														6
7	N7					7	15	18	27	45																														7
8	N8					8	16	18	24	42																														8
9	N9					9	19	19	25	44																														9
10	N10					10	20	23	28	51																														10
11	N11					11	11	19	27	46																														11
12	N12					12	13	21	39	60																														12
13	N13					13	17	20	27	47																														13
14	N14					14	16	24	33	57																														14
15	N15					15	20	23	28	51																														15
16	N16					16	24	27	35	62																														16
17	N17					17	26	32	37	69																														17
18	N18					18	27	23	40	63																														18
19	N19					19	35	38	31	69																														19
20	N20					20	32	34	26	60																														20
21	N21					21	33	50	0	50																													21	
22	N22					22	0	50	0	50																														22
23	N23					23	48	50	0	50																														23
24	N24					24	0	50	0	50																														24
25	N25					25	46	50	0	50																														25
26	N26					26	0	50	0	50																														26
27	N27					27	0	50	0	50																														27
28	N28					28	0	50	0	50																														28
29	N29					29	0	50	0	50																														29
30	N30					30	0	50	0	50																														30

30.00 m : End of borehole.

Drawing scale: 1/200

ABBREVIATIONS

- | | | | |
|--|--|---|---|
| D: Disturbed core barrel sample | g: Bulk density (kN/m ³) | CU: Consolidated sample, undrained loading conditions | phi', c': Friction angle, cohesion (effective values) |
| C: Dry core barrel sample | gd: Dry density (kN/m ³) | UU: Unconsolidated sample, undrained loading conditions | Cc, Cs: Compression index (loading, unloading) |
| U: Undisturbed stationary double tube sample | G: Specific density (kN/m ³) | CUPP: Consolidated sample, undrained loading conditions with pore pressure measurements | Cv: Consolidation coefficient |
| N: Split spoon sample | Cu - Cu,r: Undrained strength from VST (kPa) | CD: Consolidated sample, drained loading conditions | M: Compression modulus |
| | qu: Unconfined compression strength (kPa) | phi, c: Friction angle, cohesion (total values) | Pc: Effective preconsolidation stress |



STATION	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700
PROFILE NO. 1	42.100	42.100	42.100	42.100	42.100	42.100	42.100	42.100
PROFILE NO. 2	42.100	42.100	42.100	42.100	42.100	42.100	42.100	42.100
PROFILE NO. 3	42.100	42.100	42.100	42.100	42.100	42.100	42.100	42.100

SURVEYED BY: 	SURVEYED FOR: CTI Engineering International Co., Ltd.	PROJECT & LOCATION: TOPOGRAPHIC & AS-BUILT SURVEY OF WAWA BRIDGE BUNDA, ANKAW DEL SUR	LEGEND: ——— PROFILE NO. 1 - - - - - PROFILE NO. 2 - - - - - PROFILE NO. 3	NOTE: 1. QUANTIFIED & APPROX. 2. SURVEY & DATA FROM REVISIONS AS PER 300-01/000 N. 3. DATE OF SURVEY: SEPTEMBER 20-21, 2015	SHEET CONTENTS: PRELIMINARY PLAN BRIDGE & ROAD PROFILE	SCALE: H 1:1000 V 1:100	SHEET NO.:
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