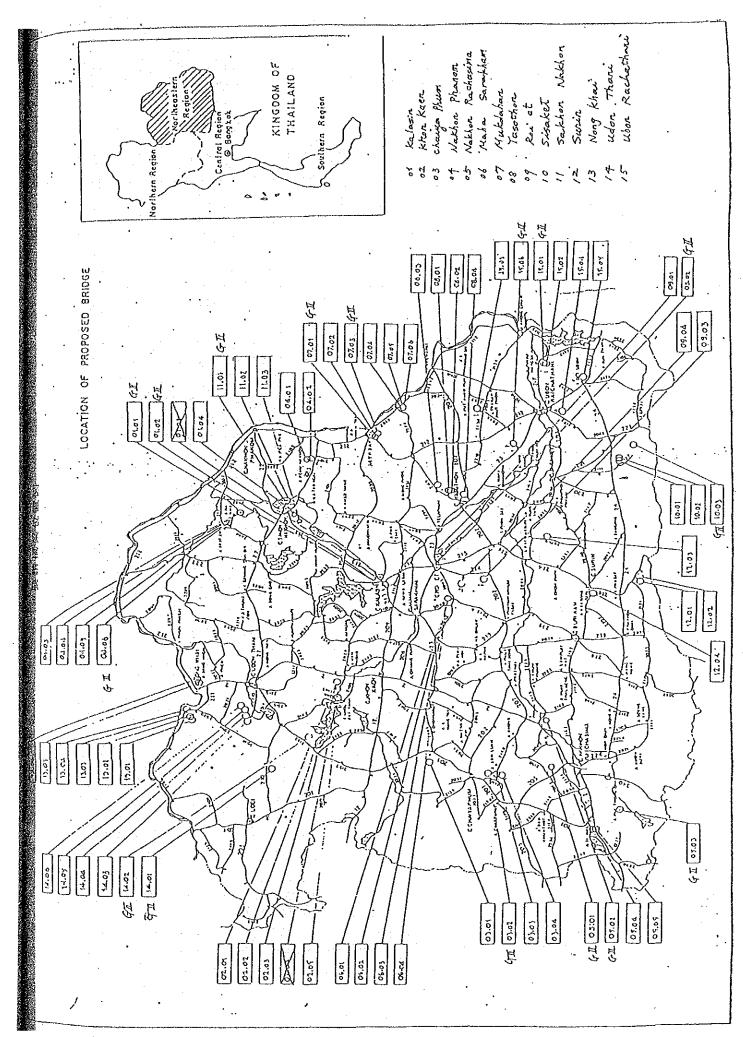
BRIDGE NO.	PROVINCE	NAME OF BRIDGE	ROUTE	LENGTH (M)	GROUP	STAGE
05.01	Nakhon Rachasima	Lam Klang	B. Non Sung -B. Lao	45. 00 (42, 00)	n	I
05. 02	Nakhon Rachasima	Lam Nam Mun		70,00	a	u
05, 03	Nakhon Rachasima	Lam Phra Phloeng	B. Makok -B. Phra Bung	55.00	П	I
05.04	Nakhon Rachasima	Lam Ta Khong No.1	Rt. No. 2 -8. Mai Samrong	15.00	I	. () I
05. 05	Nakhon Rachasima	Lam Ta Khong No. 2	Rt. No. 2 -B. Mai Samrong	20, 00	I	П
06.01	Maha Sarakham	Huai Sieo	B. Daeng -B. Bom Thung	30, 00 (28, 00)	. I 11	I
06. 02	Maha Sarakham	Huai Lom Khom No. 1	B. Lom Khom -B. Khok Tao	10.00	I	
06. 03	Maha Sarakham	Huai Lom Khom No.2	8. Lom Khom -B. Don Daeng	15.00 (11.00)	1	П
06, 04	Maha Sarakham	Nuai Na	B. Khok -B. Kok	15.00 (11.50)	1	П
07. 01	Mukdahan	Kuai Bang Sai		110. 00	П	I
07.02	Nukdahan	Kuai Ban	B.Som Poi -B.Na Si Nuan	40. 00 (25, 80)	I	.
07. 03	Mukdahan	Huai Sai Phai	B.Som Poi -B.Na Si Nuan	46, 00 (44, 70)	П	I
07. 04	Mukdahan	Ruai Khong	Rt. 2034 -B. Nong Lom	16.00 (12.40)	I	П
07. 05	Hukdahan	Huai Sang Tho No, 1	Rt. 2034 -B. Nong Lom	18, 00 (12, 40)	1	П
07. 06	Mukdahan	Huai Sang Tho No.2		18.00	I	11
08. 01	Yasothon	Huai Wang Pla Sium	B. Sai Mun -B. Ha Pong	25. 00 (21. 00)	I	: 1
08. 02	Yasothon	Huai Na Pong	B.Sai Mun -B.Na Pong	20.00 (15.00)	I	.

LIST OF PROPOSED BRIDGES

BRIDGE NO.	PROVINCE	NAME OF BRIDGE	ROUTE	LENGTH (M)	GROUP	STAGE
08. 03	Yasothon	Huai Khaen	B.Kok Sung -B.Kut Chum Phatthana	20. 00 (18. 00)	Į	I
08.04	Yasothon	Huai Khaen	B. Taptao -B. Kham Noi	35. 00 (29. 00)	I	П
09. 01	Roi-et	Huai Puai Pong	B. Sathon -B. Non Yang	25. 00 (20. 00)	I	1
09. 02	Roi-et	Lam Nam Chi	B. Nong Chok -8. Chi Lon	180.00	П	П
09.03	Roi-et	Huai Siao No.1	Rt. 214 -B. Hua Nong	40. 00 (24. 00)	·I	П
09.04	Roi-et	Huai Siao No.2	B. 1-Khot -B. Hua Nong	40. 00 (32. 00)	1	П
10.01	Sisaket	Huai Palan Muang	B. Si Khunhan -B. Nong Phu	25. 00	ſ	I
10.02	Sisaket	Huai Kantruat	B.Sikhunhan -Nong Phu	40. 00 (22. 00)	I	I
10.03	Sisaket	Huai Tha	B. Nam Kliang -B. Yang Noi	110.00 (106.00)	П	П
11.01	Sakon Nakhon	Huar Kut Suang	B. Tong Khop -B. Klang	70.00 (64.00)	П	Ī
11.02	Sakon Nakhon	Huai Pa Thao	B. Na Kung -B. Phon Kho	26. 00 (21. 00)	I	I
11. 03	Sakon Nakhon	Huai Soeng No.1	B. Phon Kangpla -B. Na Oi	30.00	Ţ.	I
12. 01	Surin	Huai Soeng No.2	B. Khok Sa-at B. Khok Rum	20.00	I -	I
12. 02	Surin	Huai Na Ngua	B. Chabok B. Lao	30.00	I	
12. 03	Surin	Huai Na Khoi	B. Non Puai -B. Nong Khu	30.00	I	1
12.04	Surin	Huai Na Krathum	B. Tham Nob -B. Ram Khuai	30.00	I	11
13. 01	Nong Khai	Huai Sieo No.1	B. Thewi -B. Dua	20. 00 (16. 00)	I	1

BRIDGE NO.	PROVINCE	NAME OF BRIDGE	ROUTE	LENGTH (X)	GROUP	STAGE
13. 02	Nong Khai	Huai Sieo No. 2	B. Thewi -B. Dua	15. 00 (9. 00)	I	1
13. 03	Nong Khai	Huai Ban Mui	B. Na Chang Nam -B. Nong Waeng	30.00 (12.00)	1	П
13. 04	Nong Khai	Huai Ran	B. Na Chang Nam -B. Nong Waeng	20, 00 (16, 00)	1	П
13. 05	Nong Khai	Huai Bang Phuan No.1	B. That -8. Chuak	20. 00 (12. 00)	1	П
13. 06	Nong Khai	Huai Bang Phuan No.2	B. Taht -B. Chuak	20.00 (16.00)	I	П
14. 01	Udon Thani	Nuai Phaniang	B. Kok Pho -B. Kan	60.00 (40.00)	П	1
14. 02	Udon Thani	Lam Nam Phuai	A.Si Bun Ruang -B.Pa Kha	110.00	Ш	Ţ
14. 03	Udon Thani	Kuai Luang	B. Chiang Yun -B. Chiang Pheng	35, 00 (32, 50)	• I	11
14.04	Udon Thani	Nong Bung Mo No. 1	B. Chiang Yun -B. Chiang Pheng	15.00 (8.00)	I	11
14. 05	Udon Thani	Nong Bung Mo No 2	B. Chiang Yun -B, Chiang Pheng	15.00 (12.00)		П
14.06	Vdon Thani	Nong Bung Mo.No.3	B. Chiang Yun -B. Chiang Pheng	25.00 (23.00)	I	<u> </u>
15. 01	Ubol Rachathani	Huai Phra Rot	B. Sabng Tho -B. Hat	45, 00 (25, 00)	П	I
15. 02	Ubol Rachathani	Huai Lak Thong	B. Ang Sila -B. Bua Daeng	35.00 (33.00)	1	I
15. 03	Ubol Rachathani	Huai Sa Do	B. Ang Sila -B. Nong Hai	30.00 (25.00)	1	I
15. 04	Ubol Rachathani	Huai So Phra	B. Na Wa -B. Khok Phra	25.00 (21.00)	1	П
15. 05	Ubol Rachathani	Huai Choek	B. Nong Hai -B. Na Kae	30.00 (28.00)	1	П
15. 06	Ubol Rachathani	Lam Nam Som	B. Na Kae -B. Sao Lao	45.00 (41.50)	IJ	П



2. Selected Bridges

				Phase I
No.	Bridge No.	Name of Brid	Bridge lge Length (m)	Location
1.	02.02	Huai Nong Be	en 25.89	Km. 5.200 Ban Kham Bong- Ban Non Dong Man Road (A. Nam Phong)
2.	02.03	Huai Yang	29.89	Km. 5.950 Ban Kham Bong- Ban Non Dong Mon Road (A. Nam Phong)
3.	03.01	Huai Khon Th	na 20.46	Km. 1.100 A. Kaeng Khlo- Ban Nong Khu Road
4.	03.02	Huai Yai	29.89	Km. 5.950 A Kaeng Khlo- Ban Nong Khu Road
5.	03.03	Huai Phai No	0. 1 20.46	Km. 18.500 A. Kaeng Khlo- Ban Nong Khu Road (A. Ban Thaen)
6.	03.04	Huai Phai No	2 19.46	Km. 18.700 A. Kaen Khlo- Ban Nong Khu Road (A. Ban Thaen)
7.	04.04	Huai Na Khoi	20.46	Km. 1.150 Ban Na Khoi-Ban Un Na Road (A. Na Wa)
8.	04.05	Huai Na Krat	hum 20.46	Km. 2.550 Ban Na Khoi-Ban Un Na Road (A. Na Wa)
9.	07.07	Huai Po	20.46	Km. 0.450 Rt. No. 212-Ban Kham Mek Road (A. Muang)
10.	07.08	Huai Ngui	30.89	Km. 0.850 Rt. No. 212-Ban Kham Mek Road (A. Muang)

Phase I

No.	Bridge No.	Name of Bridge	Bridge Length (m)	Location
11.	11.03	Ban Na Kae	30.89	Ban Phon Kangpla-Ban Na Oi Road
12.	13.01	Huai Sieo No. 1	24.89	Ban Thewi-Ban Dua Road (A. Tha Bo)
13.	13.02	Huai Sieo No. 2	19.46	Ban Thewi-Ban Dua Road (A. Tha Bo)
14.	13.03	Huai Ban Mui	30.89	Ban Na Chang Nam- Ban Nong Waeng Road (A. Tha Bo)
15.	13.04	Huai Ran	22.89	Ban Na Chang Nam- Ban Nong Waeng Road (A. Tha Bo)
16.	13.05	Huai Bang Phuan No. 1	20.46	Km. 0.400 Ban That-Ban Chuak Road (A. Muang)
17.	13.06	Huai Bang Phuan No. 2	20.46	Km. 0.775 Ban That-Ban Chuak Road (A. Muang)
18.	14.04	Nong Bung Mo No. 1	18,46	Ban Chiang Yun-Ban Chiang Pheng Road (A. Kut Chap)
19.	14.05	Nong Bung Mo No. 2	18.46	Ban Chiang Yun-Ban Chiang Pheng Road (A. Kut Chap)
20.	14.06	Nong Bung Mo No. 3	25.89	Ban Chiang Yun-Ban Chiang Pheng Road (A. Kut Chap)
21.	14.07	Nong Bung Mo No. 4	20.46	Ban Chiang Yun-Ban Chiang Pheng Road (A. Kut Chap)

Phase II

	•			- 1111100 110
No.	Bridge No.	Name of Bridge	Bridge Length (m)	Location
1.	05.04	Lam Ta Khong No. 1	19.46	Ban Nam Mao (Lat Boa Khao, Sikhui)
2.	05.05	Lam Ta Khong No. 2	30.89	Ban Mai Samrong (Mai Samrong, Sikhui)
3.	06.01	Huai sieo	33.89	Km. 0.450 Ban Daeng-Ban Bon Thung Road (A. Wapipathum)
4.	06.03	Huai Lom Khom No. 2	19.46	Ban Lom Khom-Ban Don Daeng Road
5.	06.04	Huai Na	16.46	Km. 4.950 Ban Khok-Ban Kok Road (A. Wapipathum)
6.	08.01	Huai Wang Pla Sium	25.89	Km. 0.950 A. Sai Mun-Ban Na Pong Road (A. Sai Mun)
7.	08.02	Huai Na Pong	20.46	Km. 2.450 A. Sai Mun-Ban Na Pong Road (A. Sai Mun)
8.	08.03	Huai Khaen	20.46	Km. 0.800 A. Kut Chum-Ban Khok Sung Road (A. Kut Chum)
9.	08.04	Huai Khaen Long No. 1	20.46	Km. 0.650 A. Kut Chum-Ban Khok Sung Road (A. Kut Chum)
10.	08.05	Huai Khaen Long No. 2	23.89	Km. 1.000 A. Kut Chum-Ban Khok Sung Road (A. Kut Chum)
11.	09.01	Huai Pla Pong	25.89	Km. 1.700 Ban Non Yang-Ban Sathor Road (A. Selaphum) Ban Nong Chok (A. Selaphum)

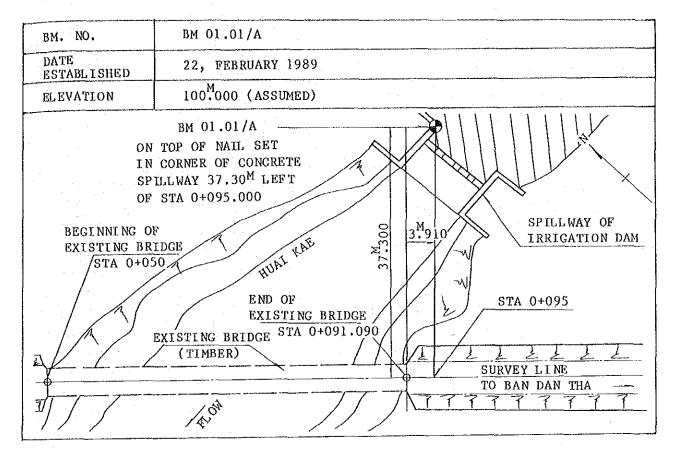
Phase II

No.	Bridge No.	Name	of Bridge	Bridge Length (m)	Location
12.	09.03	Huai	Siao No. 1	34.89	Km. 1.725 Rt. No. 214-Ban Hua Nong Road (A. Kaset Wisai)
13.	09.04	Huai	Siao No. 2	25.89	Km. 1.215 Ban I-Knot-Ban Hua Nong Road (A. Kaset Wisai)
14.	10.01	Huai	Palan Muang	25.89	Ban Sikhunhan-Ban Nong Phu Road
15.	10.02	Huai	Kantruat	20.46	Ban Sikunhan-Ban Nong Phu Road (A. Khun Han)
16.	12.02	Huai	Thamo	20.46	Km. 5.625 Ban Prasat Beng- Ban Khu Tan Road (A. Kap Choeng)
17.	15.03	Huai	Sa Do	30.89	Km. 3.375 Rt. No. 2172-Ban Nong Hai Road (A. Phibun Mang Sahan)
18.	15.04	Huai	So Phra	27.89	Ban Na Wa-Ban Khok Phra Road
19.	15.05	Huai	Choek	30.89	Km. 0.350 Ban Nong Hai (Rt. No.2178)- Ban Na Kae Road (A. Samrong)
20.	15.06	Huai	Khaen	32.89	Km. 4.800 Ban Nong Hai (Rt. No.2178)- Ban Na Kae Road (A. Samrong)

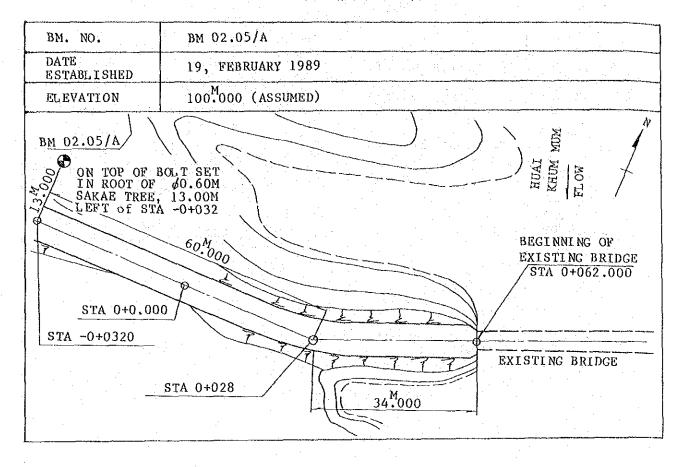
APPENDIX 4

Topographic Survey

DESCRIPTION OF BM-POINT 01.01 Huai Kae (Kalasin)



DESCRIPTION OF BM-POINT 02.05 Huai Khum Mum ((Khon Kaen)



DESCRIPTION OF BM-POINT 04.01 Huai Soeng No. 1 (Nakhon Phanom)

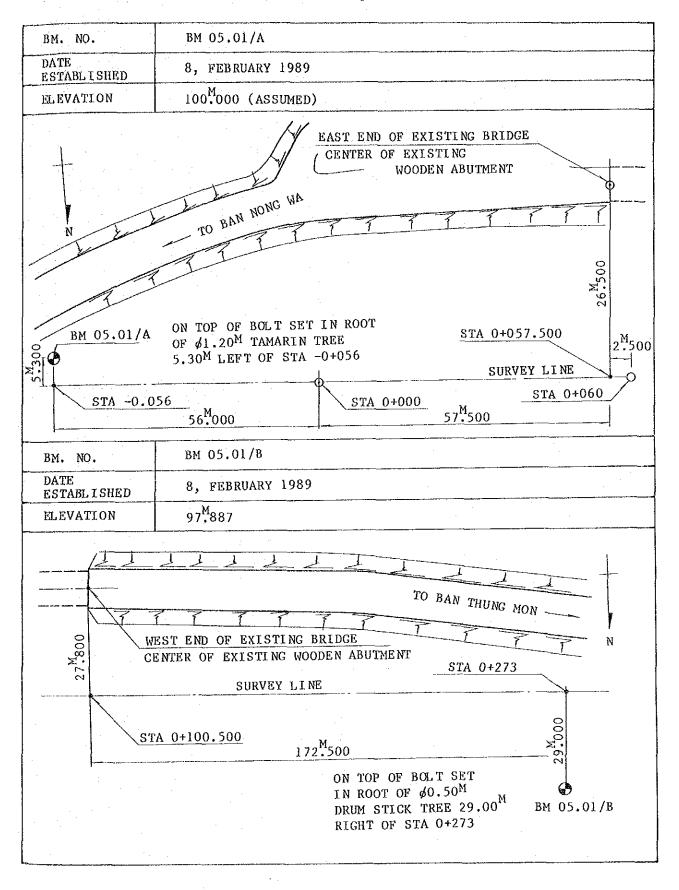
BM. NO.	BM 04.01/A, 04.02/A
DATE ESTABLISHED	21, FEBRUARY 1989
ELEVATION	100.000 (ASSUMED)
BEGINNING OF EXISTING BRIDGE STA 0+050.00	END OF EXISTING BRIDGE STA 0+040 EXISTING BRIDGE STA 0+040 EXISTING BRIDGE STA 0+040 EXISTING BRIDGE STA 0+040

DESCRIPTION OF BM-POINT 04.02 Huai Soeng No. 2 (Nakhon Phanom)

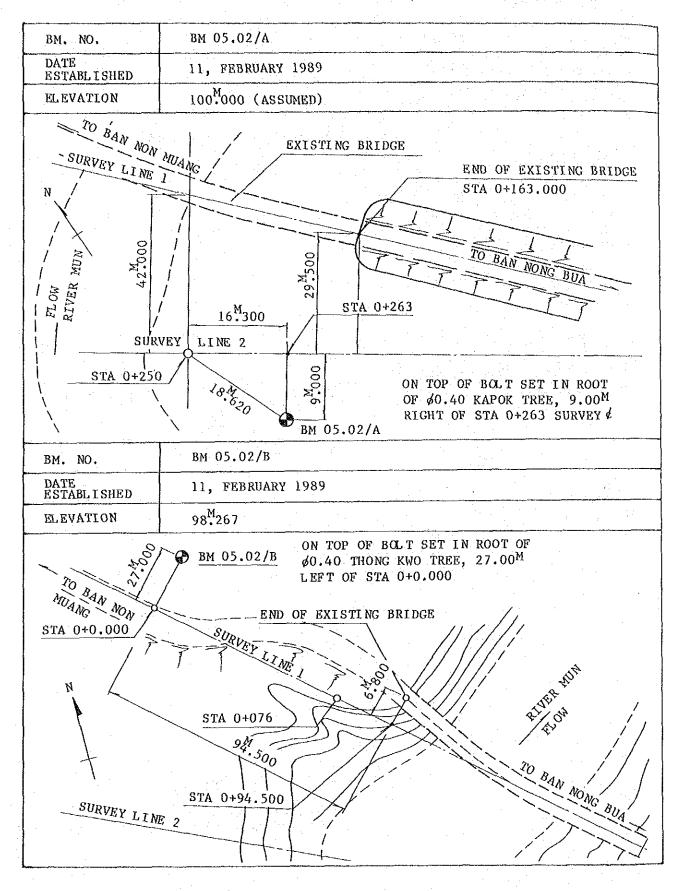
BM. NO.	BM 04.01/A, 04.02/A	
DATE ESTABLISHED	22, FEBRUARY 1989	
ELEVATION	100 ^M 000 (ASSUMED)	

THE SAME BENCH MARK FOR BRIDGE NO. 04.01 IS AVAILABLE FOR BRIDGE NO. 04.02

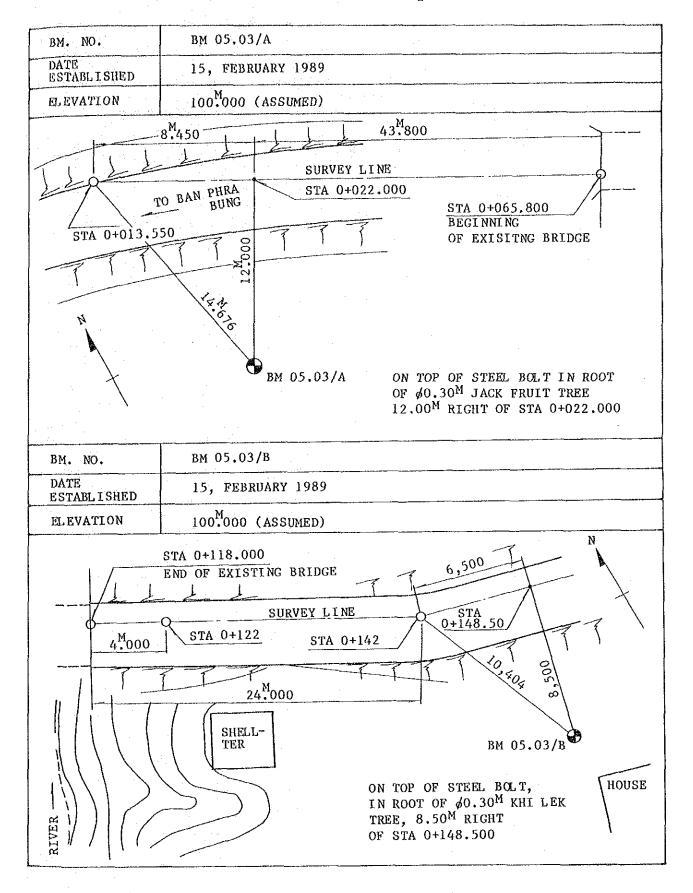
DESCRIPTION OF BM-POINT 05.01 Lam Klang (Nakhon Rachasima)



DESCRIPTION OF BM-POINT 05.02 Lam Nam Mun (Nakhon Rachasima)



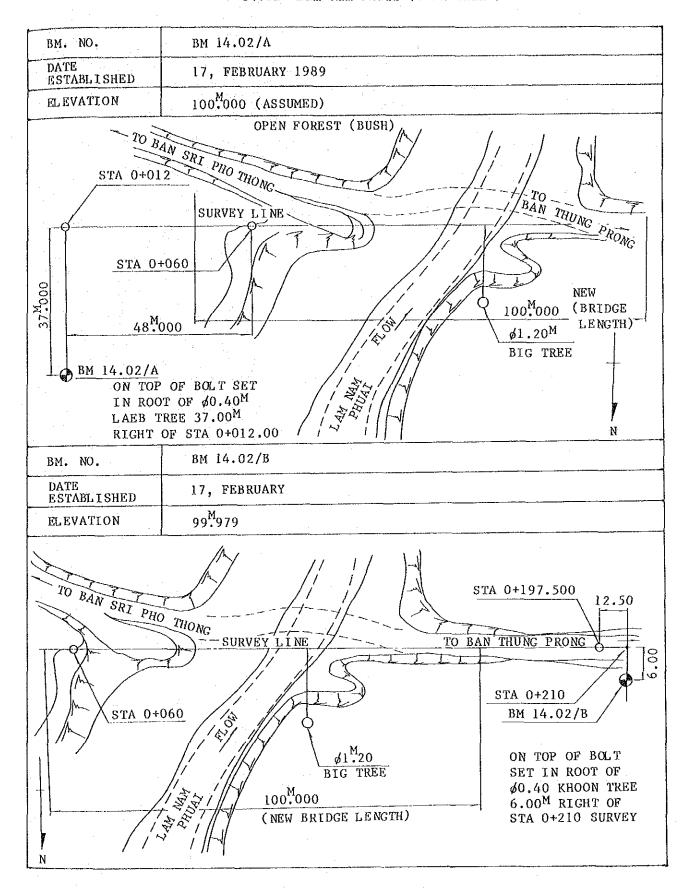
DESCRIPTION OF BM-POINT 05.03 Lam Phra Phloeng (Nakhon Rachasima)



DESCRIPTION OF BM-POINT 11.01 Lam Nam Kham (Sakhon Nakhon)

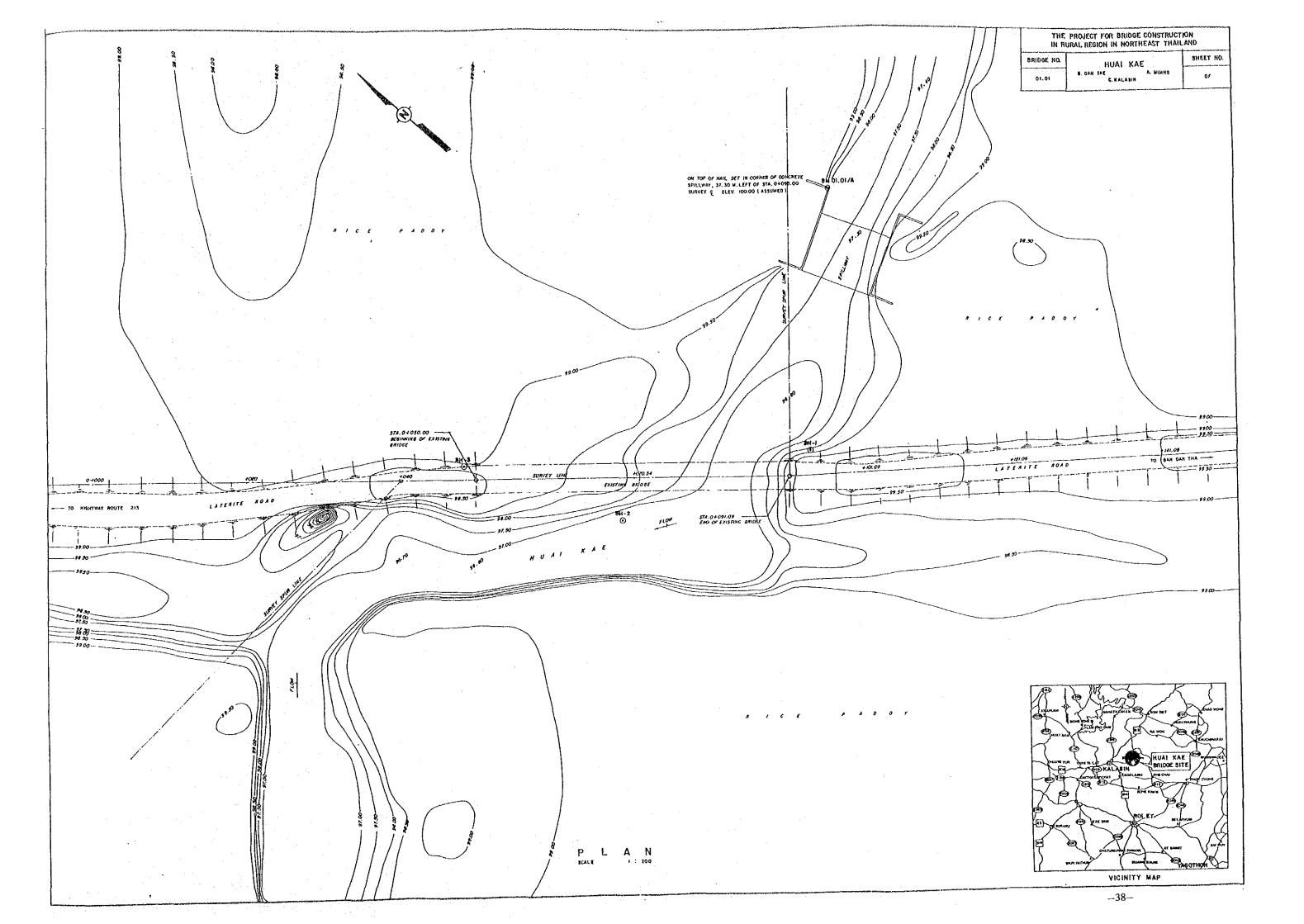
BM. NO.	BM 11.01/A
EL EVATION	9, FEBRUARY 1989
DATE ESTABLISHED	100 ^M 000 (ASSUMED)
STA 0+38.500 STA TO BAN KHOK KONG 7 1.500 7	ON TOP OF BOLT SET IN ROOT OF \$1.00^M MANGO TREE, 30.50^M LEFT OF STA 0+38.500 SOUTH END OF EXISTING BRIDGE STA 0+050.000 EXISTING BRIDGE (SUSPENTION) ANCHOR

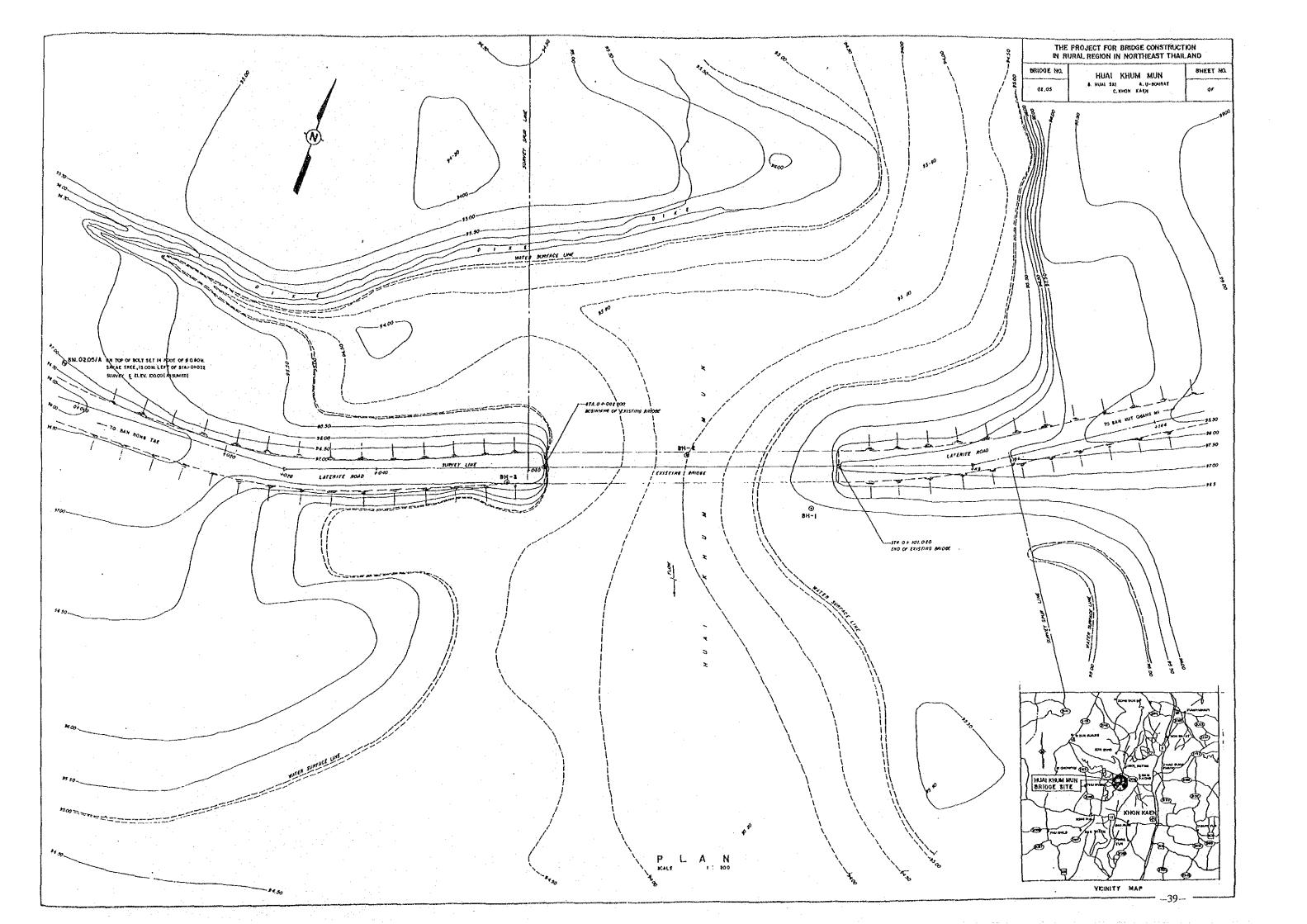
DESCRIPTION OF BM-POINT 14.02 Lam Nam Phuai (Udon Thani)

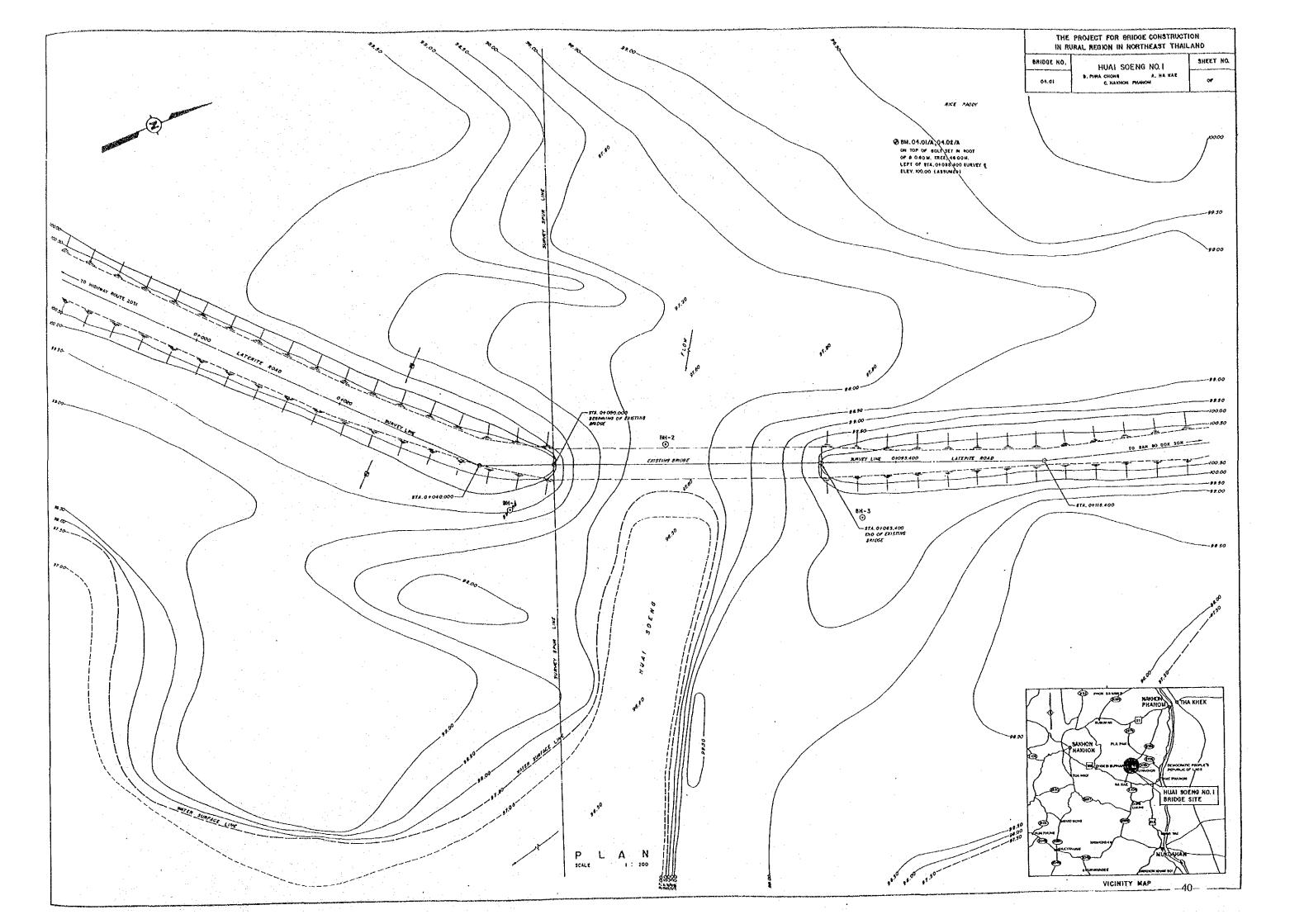


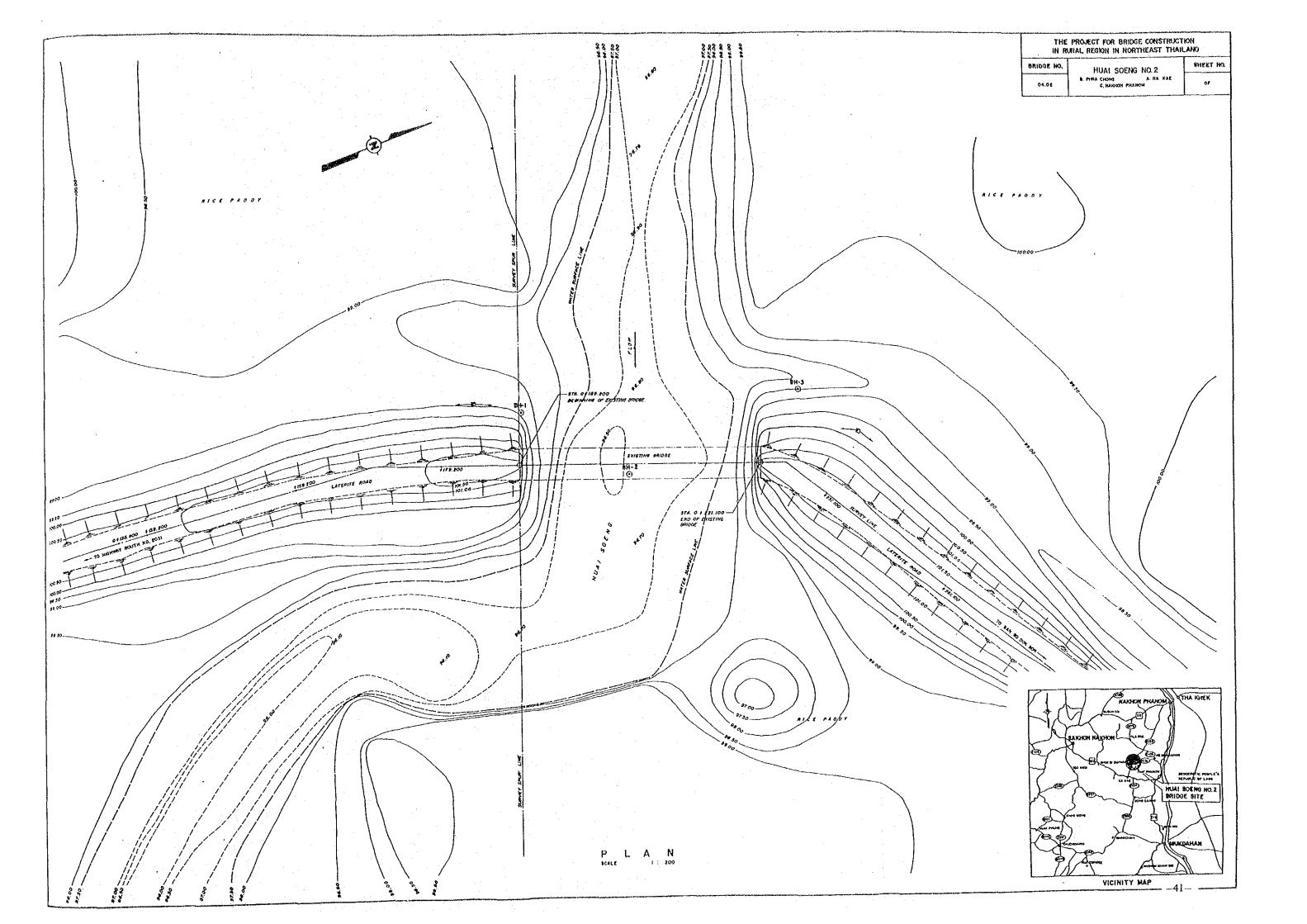
DESCRIPTION OF BM-POINT 15.07 Lam Som (No. 1) Ubon Ratschathani)

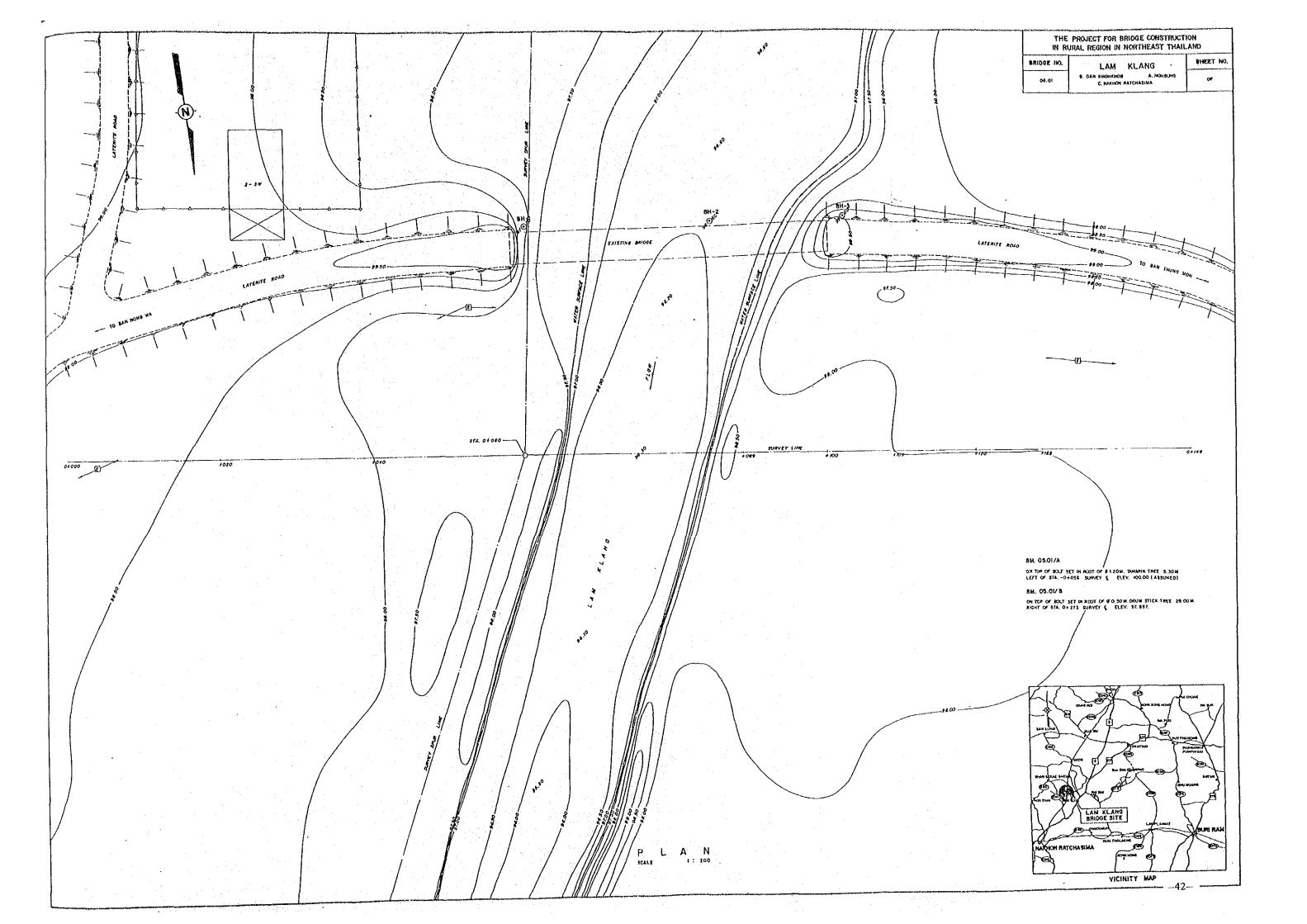
BM. NO.	BM 15.07/A
DATE ESTABLISHED	13, FEBRUARY 1989
ELEVATION	100 ^M 000 (ASSUMED)
ON TOP OF BOLT SIN ROOT OF \$1.201 YANG TREE 9.80M	M 15.07/A P
LEFT OF STA 0+02	EXISTING BRIDGE
8. C. OF 10. 000 ROAD ROACH STA 040. 00/	
THE THE PERSON OF THE PERSON O	BRIDGE STA 0+30.00

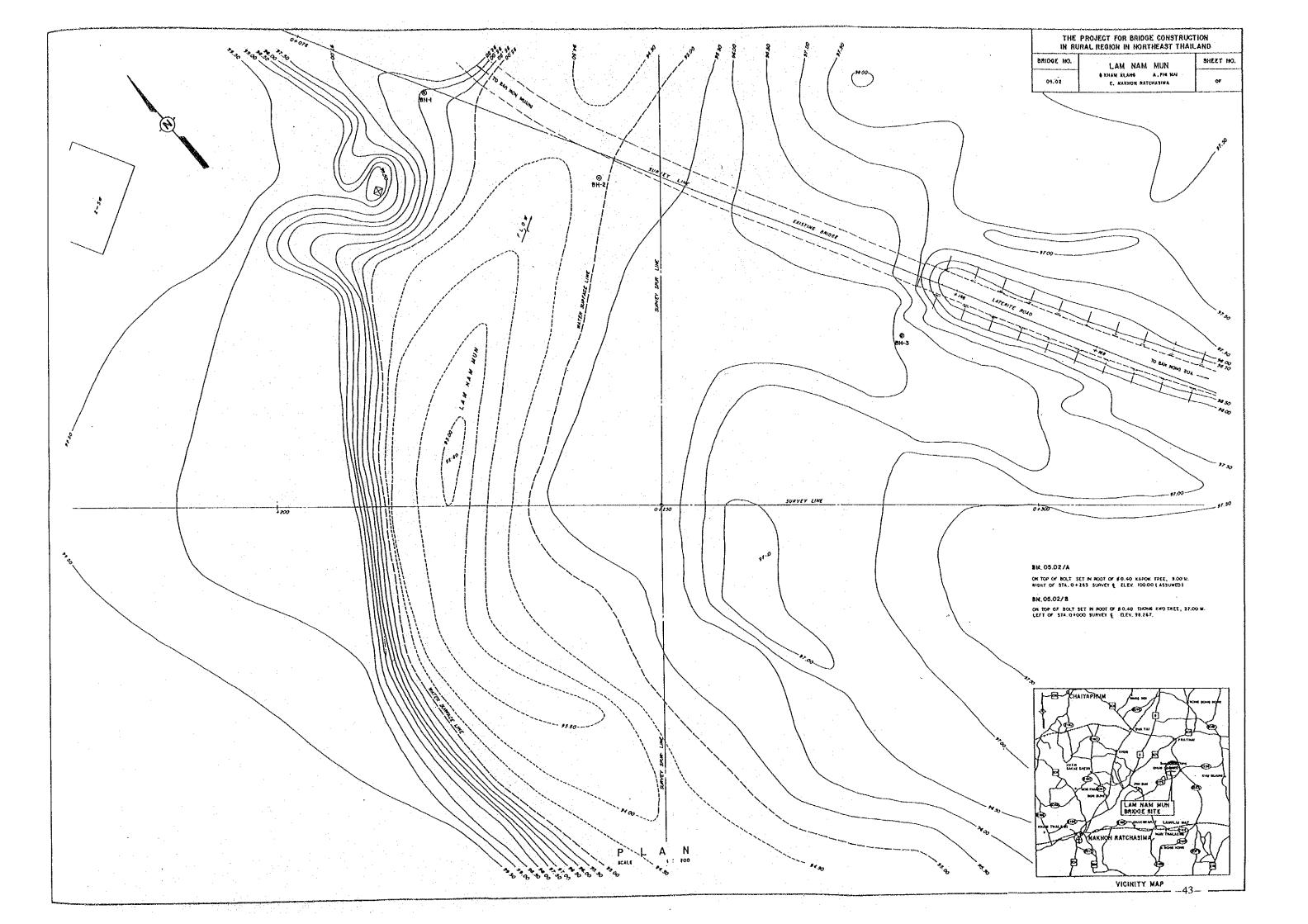


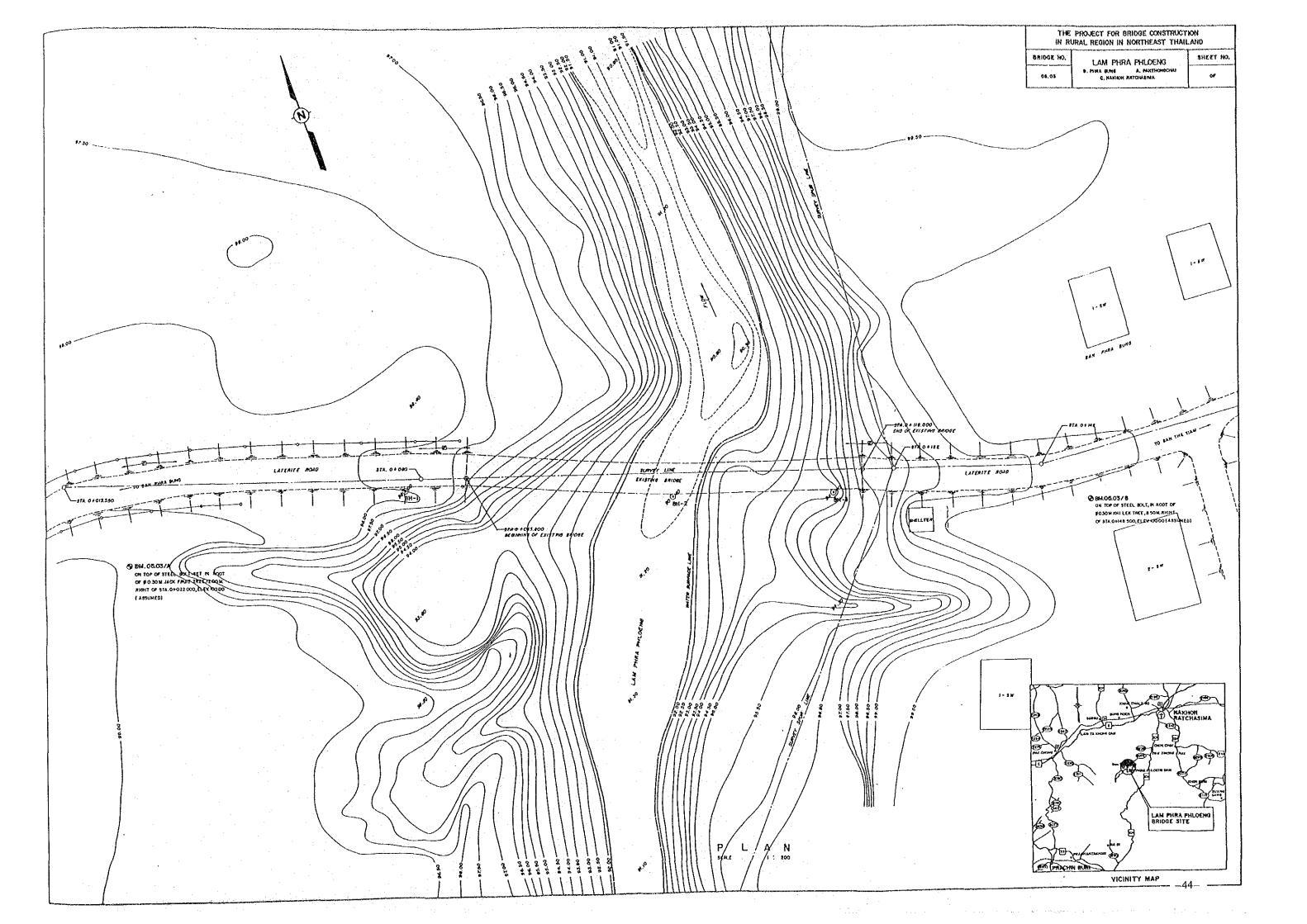


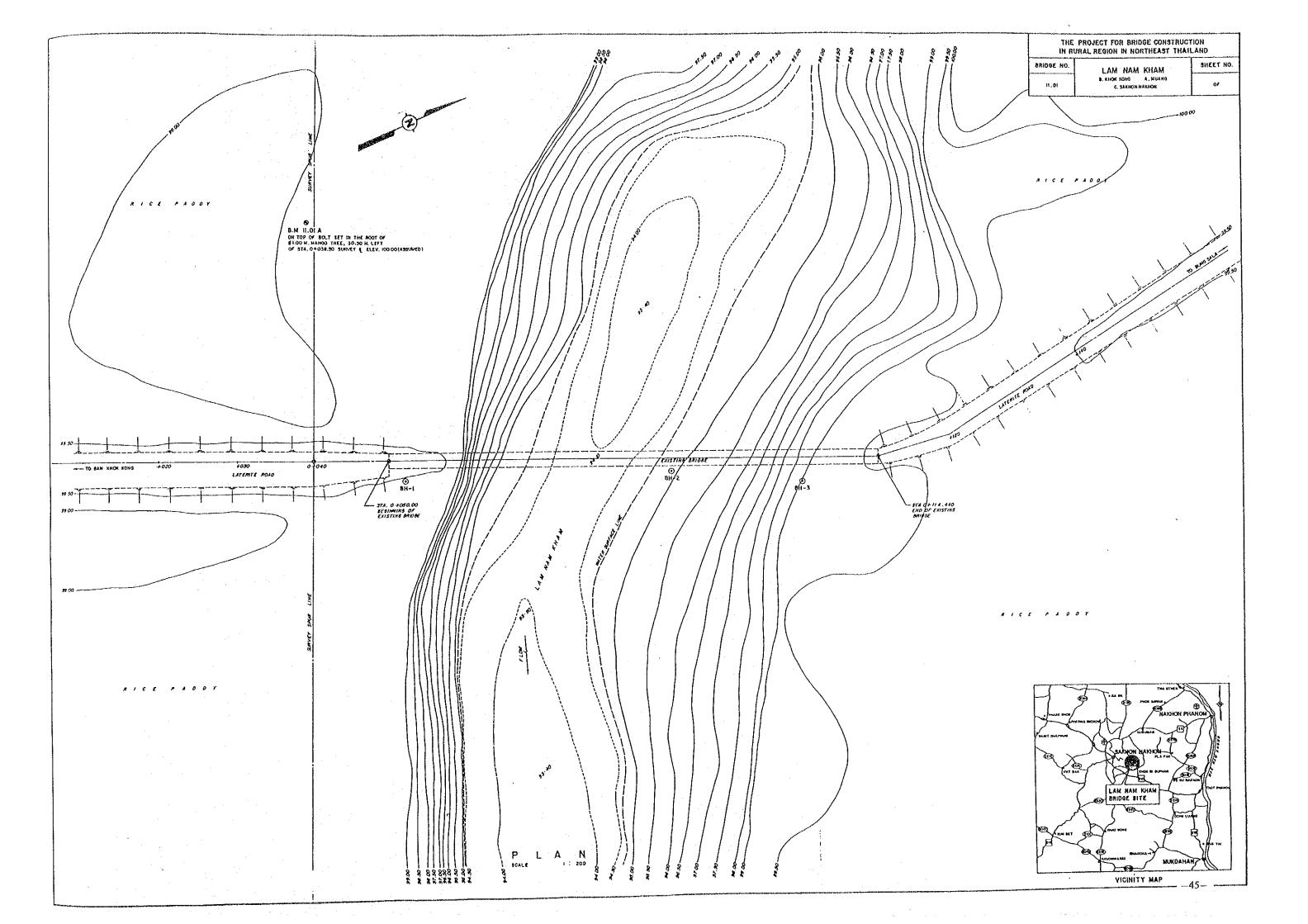


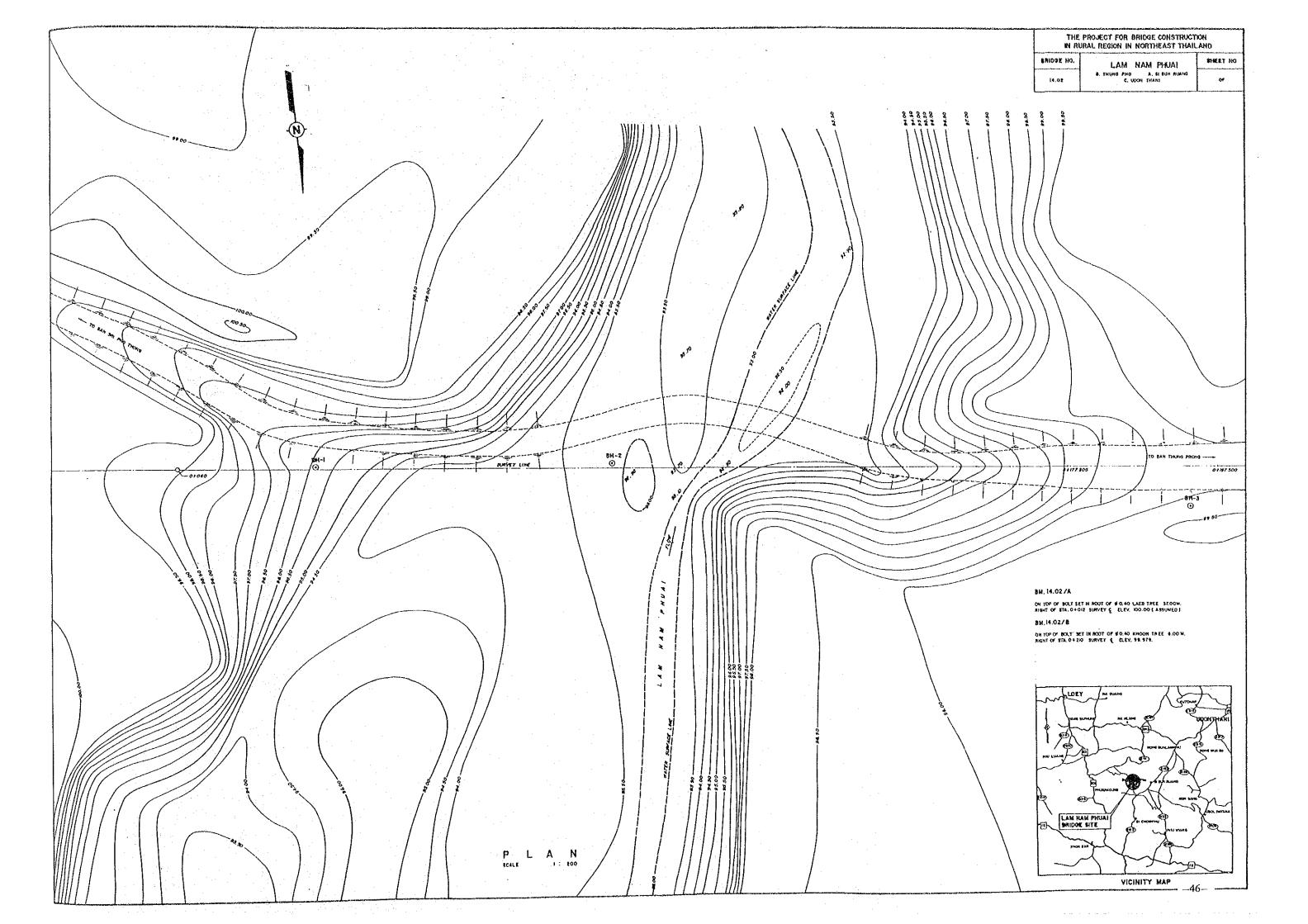


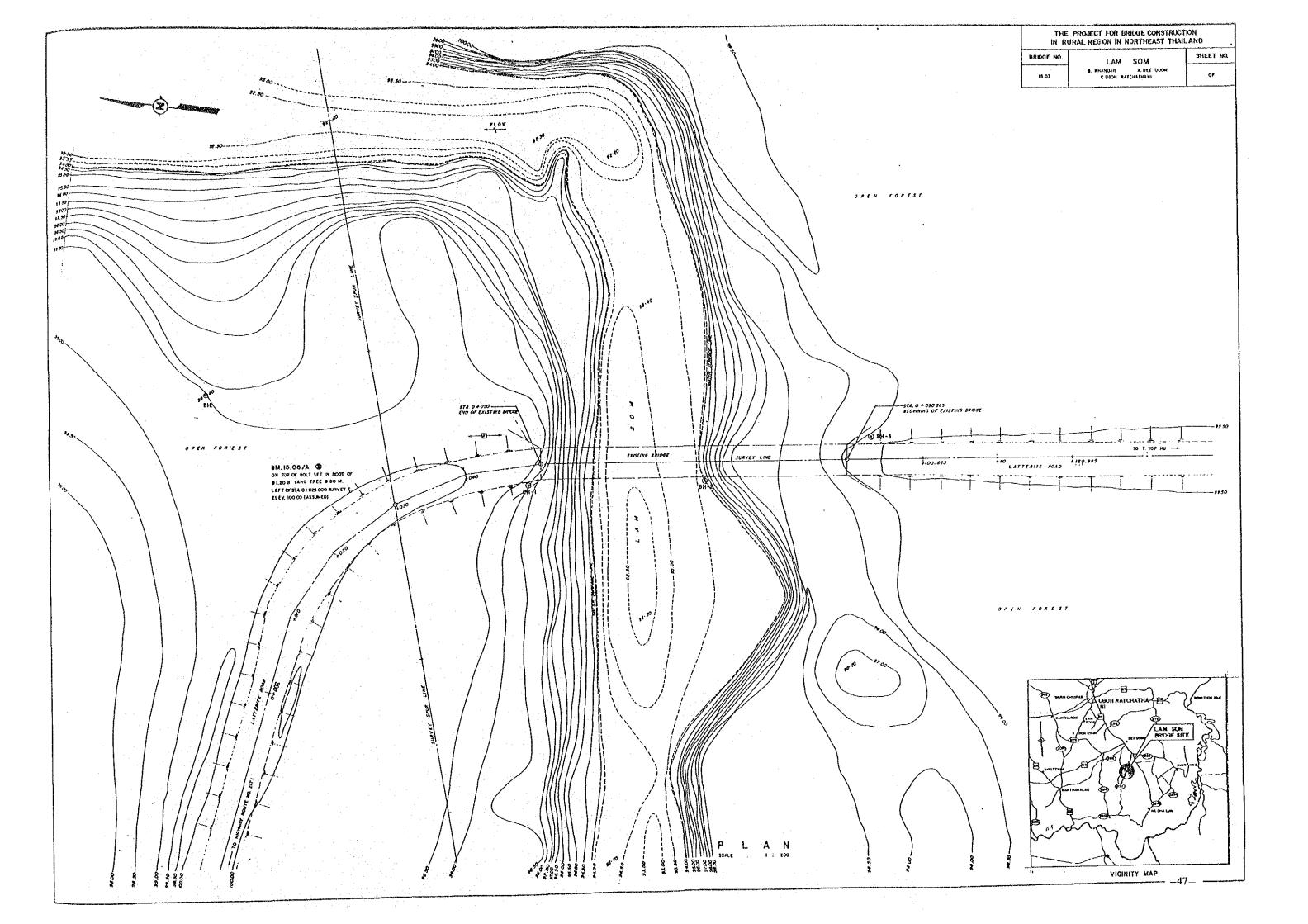






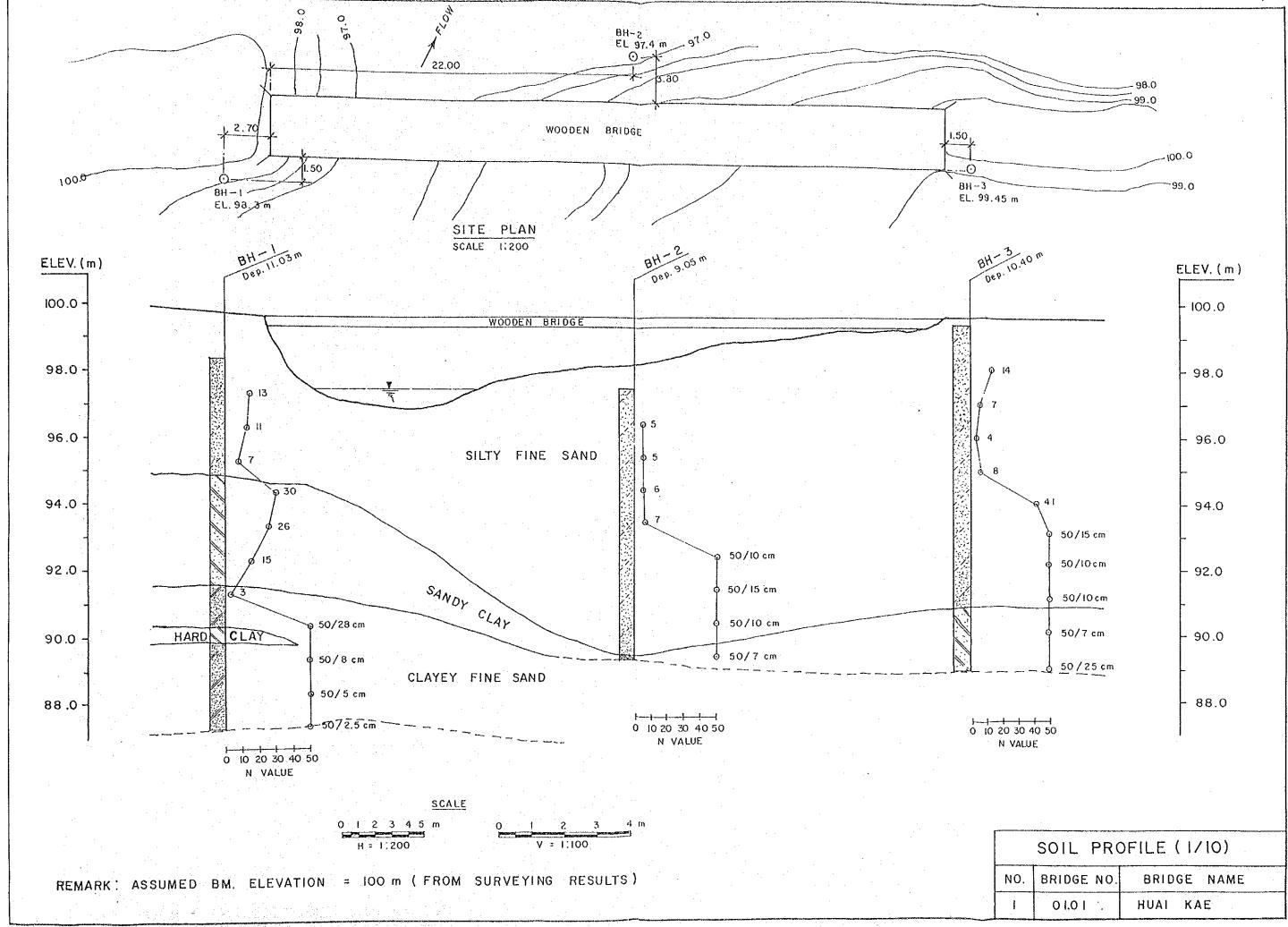


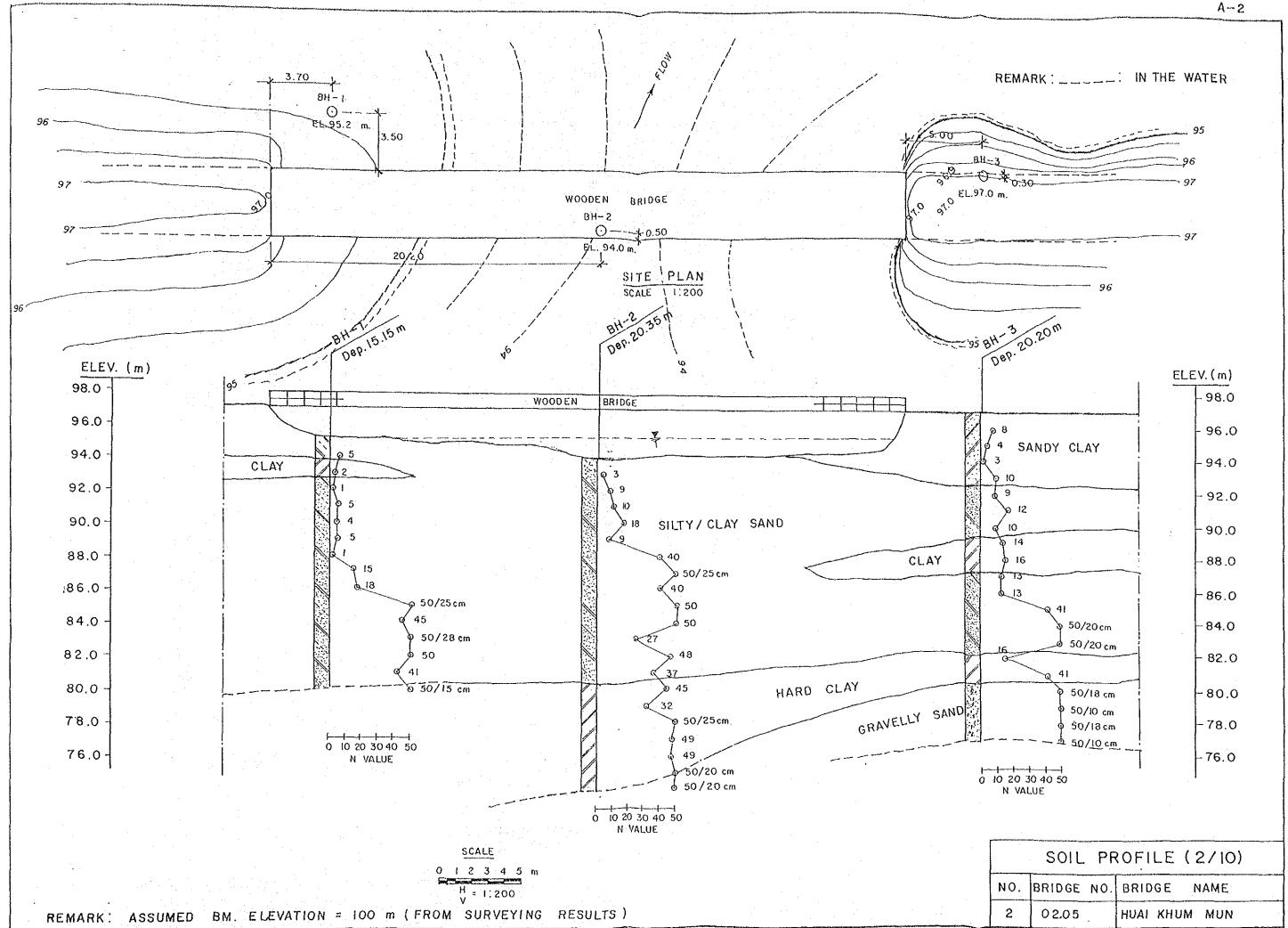


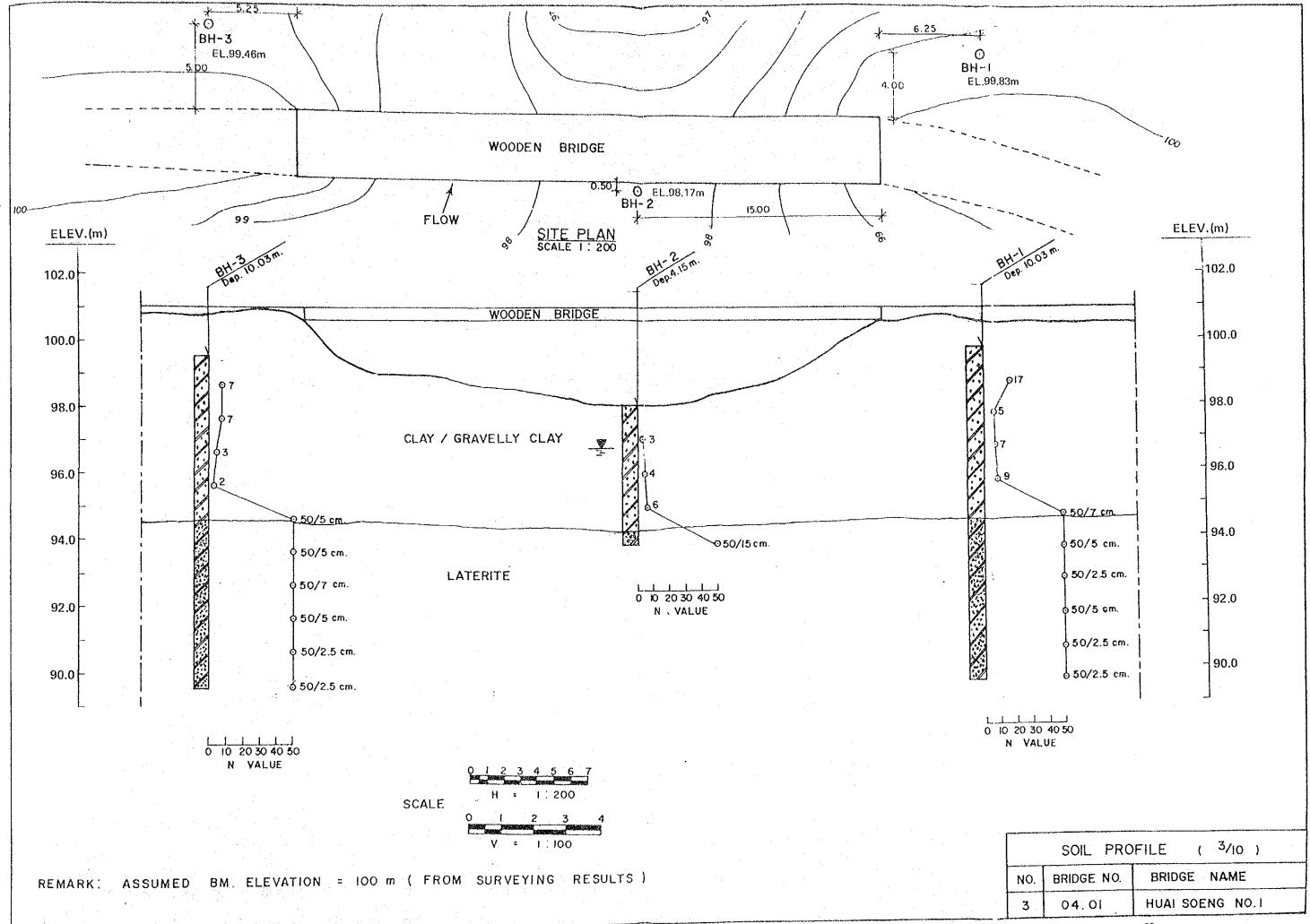


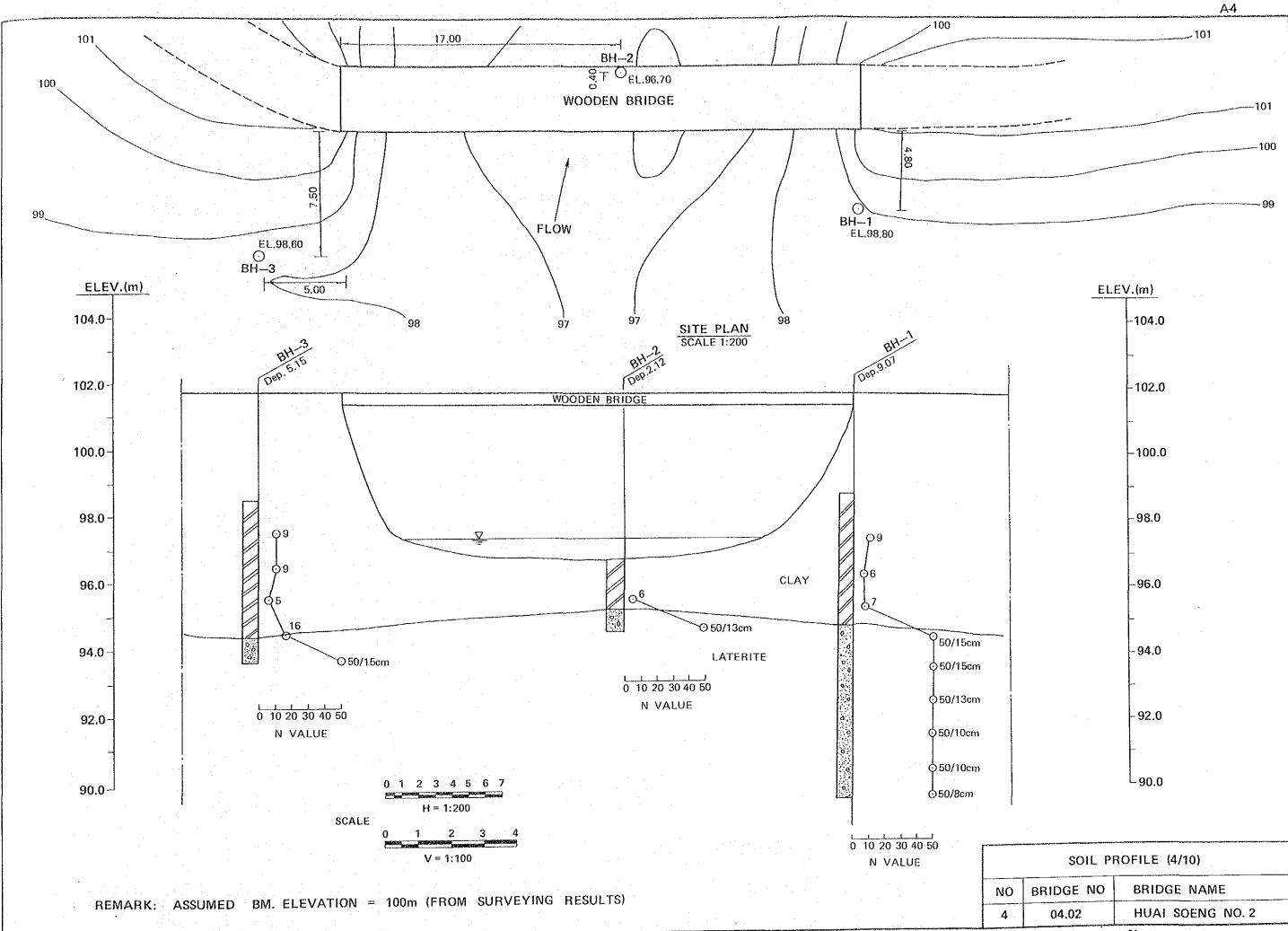
APPENDIX 5

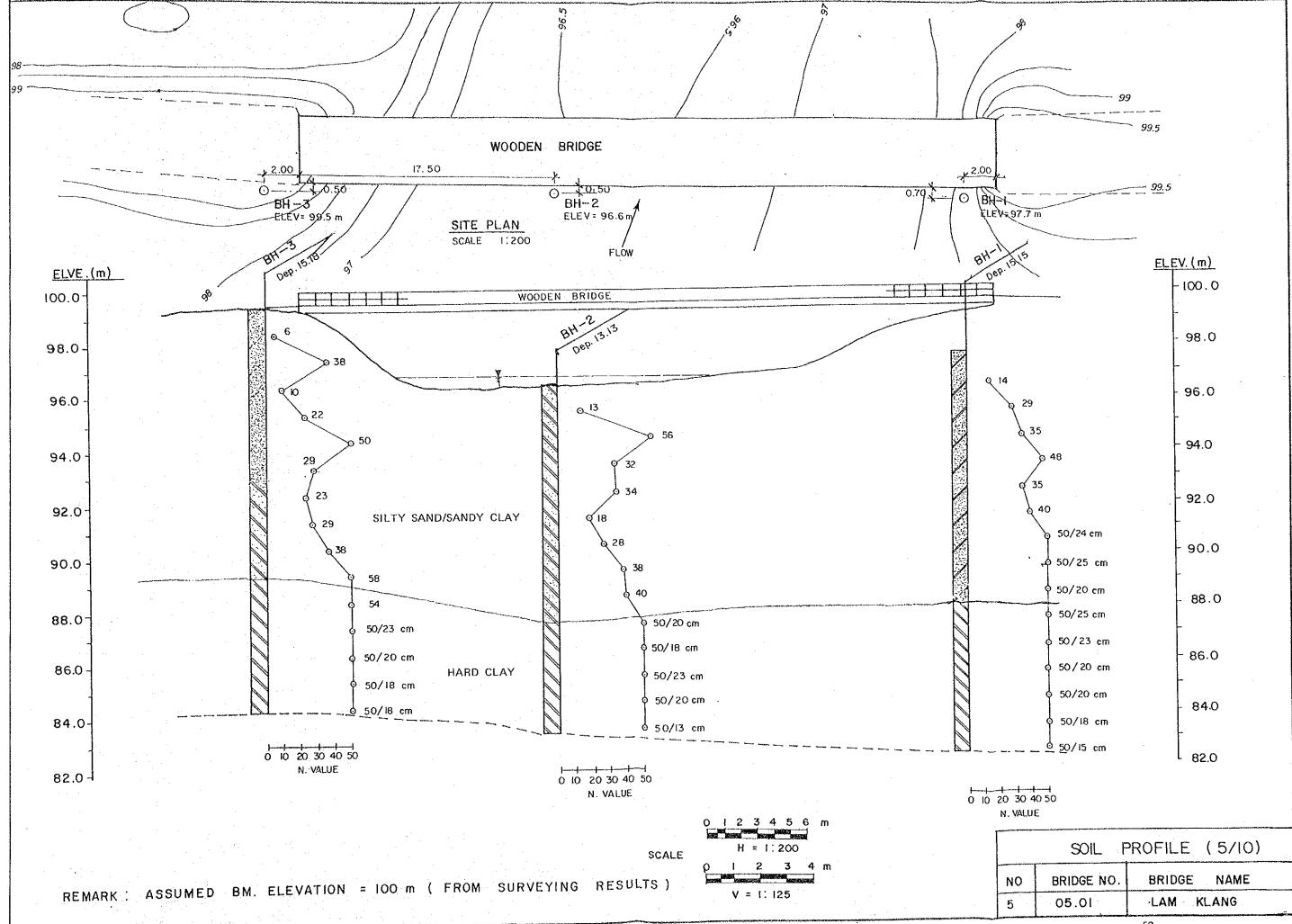
Geological Survey

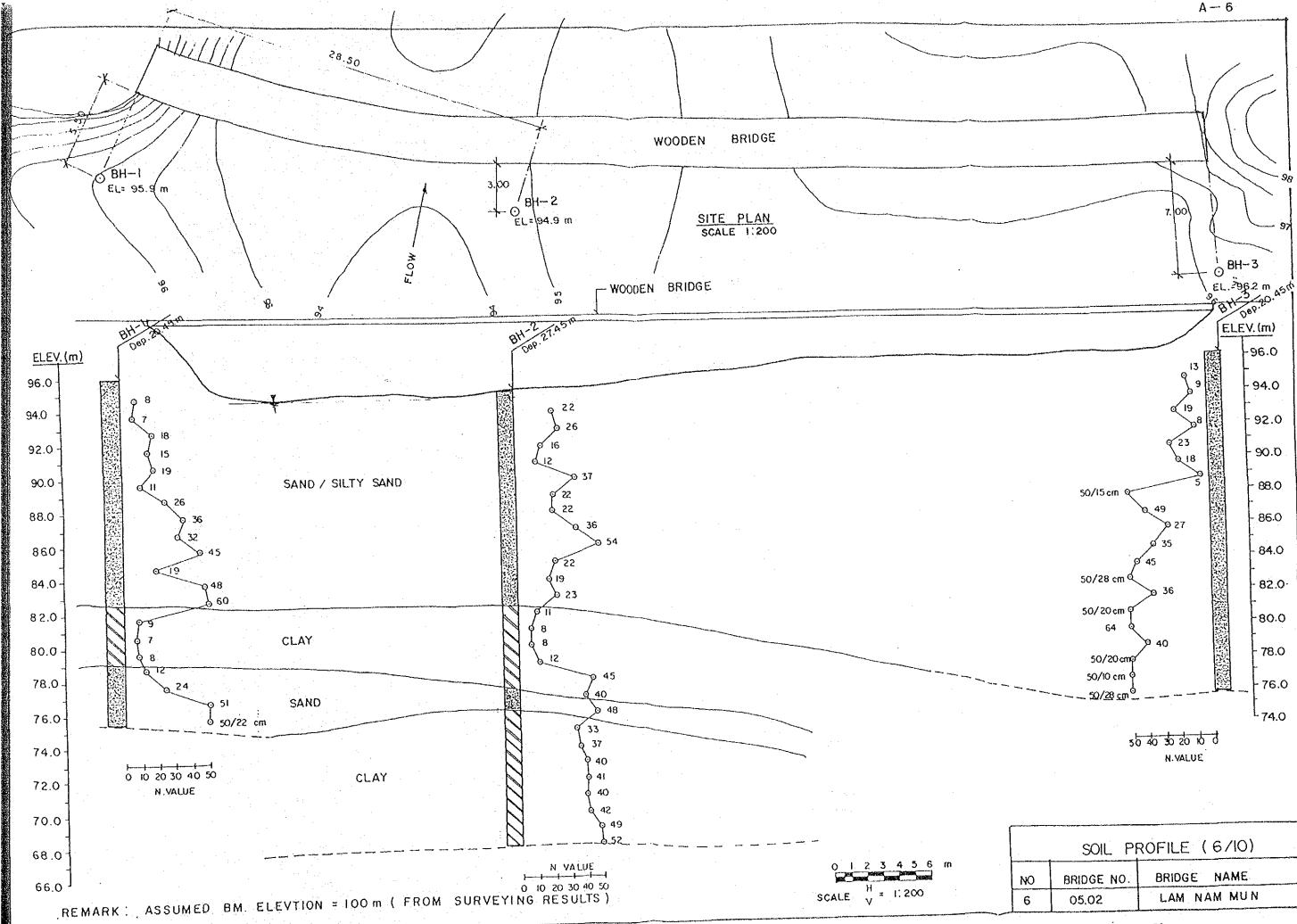


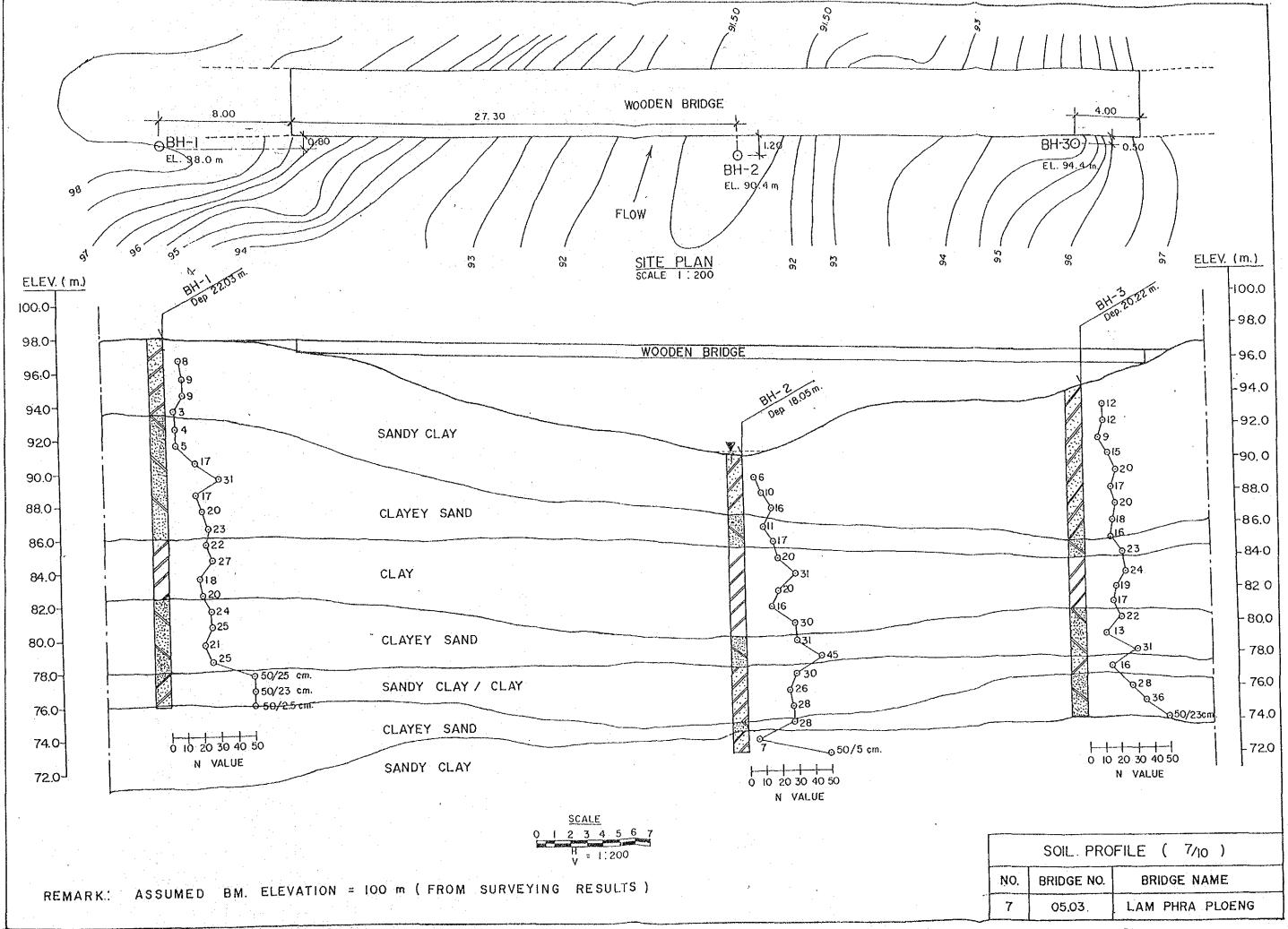


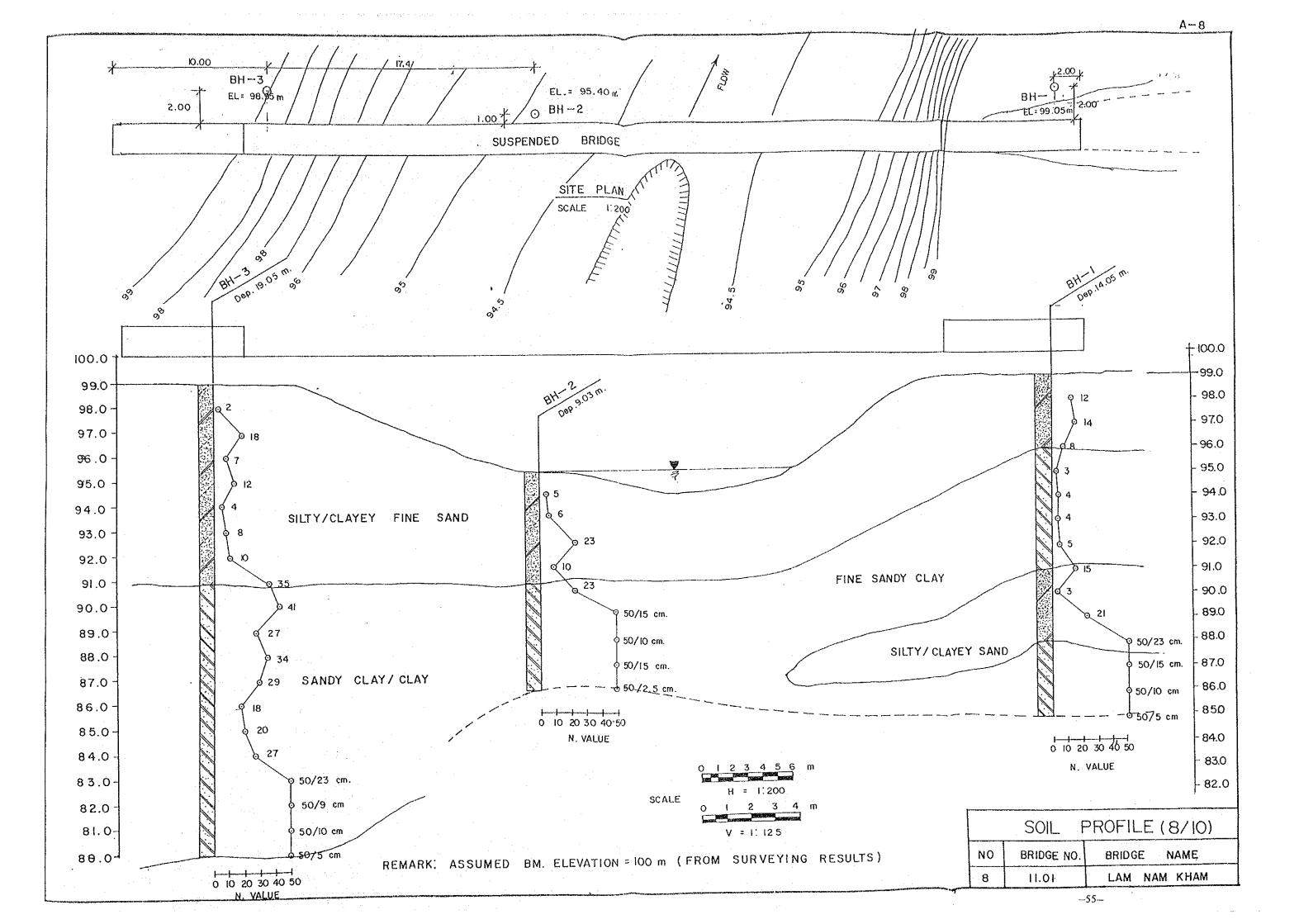




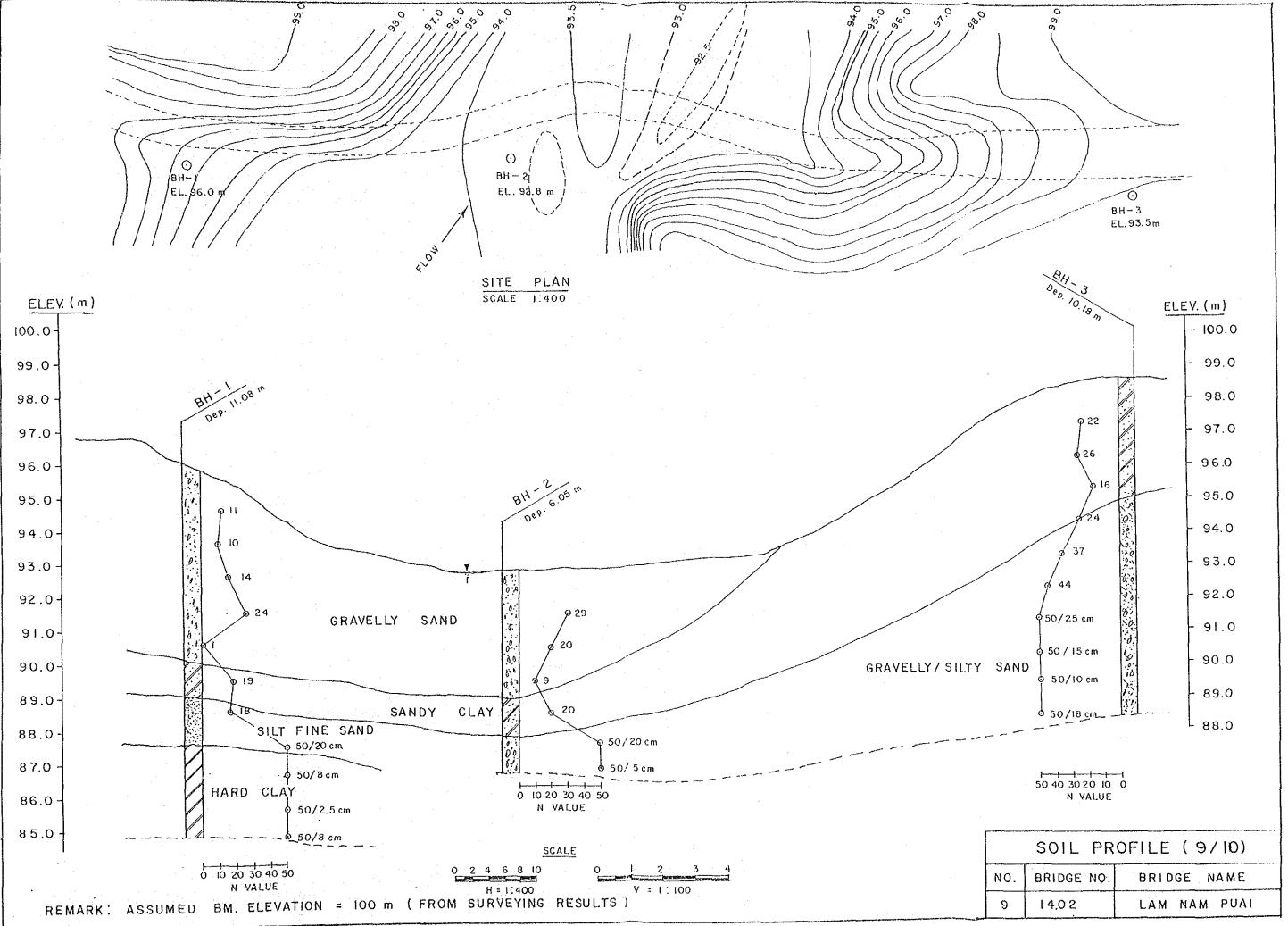




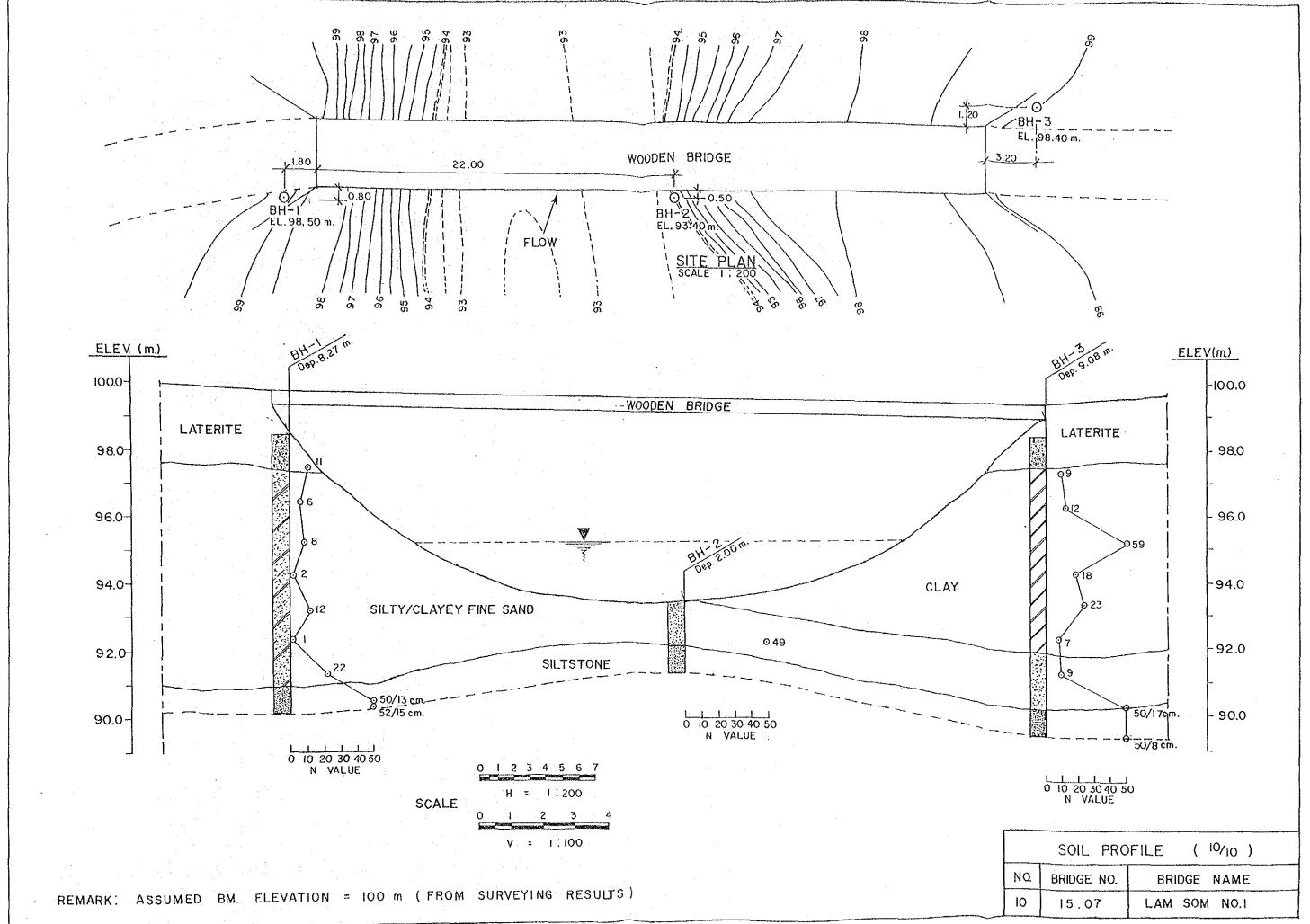








囊 化二克尔克尔氏 医二氏病 医二氏病



BORING LOC O1.01 HUAL KAE OCATION A. MUANG, KALASIN	y y			· .	þ	ORING EPTH OORD.	(m.)	1	1.	03				c	OBSE DATE		ED V	YL (FED	m.) 5/	3/			
SOIL DESCRIPTION	0ΕΡΤΗ (m.)	GRAPHIC LOG	жетнор	SAMPLING		5 f (blo 10 20	ws/	ft))	1-		O (%)	LI I	-	⊙ : X 1	Su() UCT FVT	 1 / m 2	2)) PP		(7, 1/1	n.)	
LOOSE TO MEDIUM DENSE SILTY FINE SAND, LI-BROWN AND DARK BROWN (SM) (NO SALTY) 3.60 VERY STIFF FINE SANDY CLAY, GREYISH BROWN AND DARK BROWN (CL) (NO SALTY) 6.80 VERY LOOSE CLAYEY FINE SAND, DARK GREY (NO SALTY) (SC) 8.00 HARD SANDY CLAY, GREY AND DARK BROWN (CL) 8.50 (NO SALTY) VERY DENSE CLAYEY SAND, DARK BROWN AND REDDISH BROWN (NO SALTY) (SC) 11.03	3- 3- 5- 6- 7- 8- 9-		PA SS	5 6 8 9 9		3 (II 5 ((3,	,6) (14) 26 (14) 28 (32/11)	(A))	0			•								6	0
END OF BORING		the state of the s																					

SOIL DESCRIPTION	BORING LOC PROJECT 01.01 HUAI KAE OCATION A. MUANG, KALASIN	ÿ				BO DE CO	RING PTH ORD	3 NC (m.) <u>B</u>	H- ., 0	2 \$					OB: DAT	SER'	VED STAF	WL.	(m)) 0) 0 3/3 4/3	28\	<u>)</u>
LOOSE SILTY FINE SAND, WO SS L	SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING		S (6 blo O 2	PT - ows/ O 3	N (1)	0	1		- - ⊖- (%:	— —)	4	×	VC FV	τ.	Δ.P □ T	Ρ V.		(17)	m. ³)
4.50 4.50 4.50 VERY DENSE SILTY FINE SAND, 5 GREYISH BROWN AND BROWN (SM) (SM) 6- SS 4 6 7 (3,4) WO SS 5 5 50/10 GM WO (NO SALTY) 7- SS 7 50/10 CM WO RAPID FINE SAND CLAY, WO PNDISH BROWN (CL) 9.05 NO SALTY) 9- SS 9- 50/5 CM:	LOOSE SILTY FINE SAND, BROWN AND GREYISH BROWN			ss wo	1							0											
VERY DENSE SILTY FINE SAND, 5 SS 5 50/10 GM WO (SM) 6 SS 6 50/15 CM O O (NO SALTY) 7 SS 7 50/10 CM. O (NO SALTY) 8.00 8 SS 8 50/8 CM O O (SS 9 50/5 CM.)	4.50	4-		SS WO SS								0				·							
8.00 8 50 8 50/8 cm 9 9 50/8 cm 9 9 50/5 cm	GREYISH BROWN AND BROWN (SM)	6-		SS WO SS WO	6.		50	718	СM	-	,	0											<u></u>
END OF BORING	HARD FINE SAND CLAY,	8	ij	wo ss wo	8-		50	78	СM.		,	0											
	END OF BORING																						
		-				 						-							-				
		1																					-
		-													<u>;;</u> ;								

BORING LOCATION A. MUANG, KALASIN	3				1		3 NO (m.		*******		 		_ O:	BSE ATE ATE	RVEI STA FIN	O WL ARTE ISHE	D	.) <u></u> 1/3	99 2.5 /89 /89	0	5
SOIL DESCRIPTION	OEPTH (m.)	GRAPHIC	метнор	SAMPLING		(Ъ!	PT ows / 20 3	ft)	.]	}-	 -⊖- (%)	LL {		⊙υ χ೯	ÇT VT	/ m ² . △ .	PP TV		۲ (۱/ ۱۵۱	m.3	
LOOSE TO MEDIUM DENSE SILT FINE SAND, DARK BROWN AND (SM) (NO SALTY) DENSE TO VERY DENSE SILTY FINE SAND, DARK BROWN AND BROWNISH GREY (SM) (NO SALTY) 8.50 HARD SANDY CLAY, REDDISH BROWN (NO SALTY) (CL) 10.40 END OF BORING	2 3 4 5 6 7 8 9 IC		PA SS PA PA PA PA SS PA PA PA SS PA PA PA PA SS PA	3 3 6 6 7 7 9 9		7 4 (8 50 (2 50 ()	2,2	5) ,4) ,4) ,7) ,6 ,7) ,7) ,7) ,7) ,7) ,7) ,7) ,7)	CM CM)											

BORING LOC ROJECT 02.05 HUAI KHUM MUN OCATION A. UBON RATTANA, KI	1		N		DE	PTI	6 N(I (m	.)	-	_1.5	.1.	5	:		OB: DA1	SER	VED STÅF	WL.	(m.) -0 3/2)5.; .10 /89 /89)
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING	RELOVERT	(bi	PT ows	/ (t)		1	٠.	- o (%			\ \	Sul DUC FV	Ť.	Δ P □ T	P V		Υ ₁ (1/1)	m. ³)
LOOSE SILTY FINE SAND, BROWN (NO SALTY) (SM) 1.50	.[-		PA SS	i a i i Tu	ှ	5	(2,	3)			Q	1 1										
SOFT FINE SANDY CLAY, BROWN (CL/SC) 2.50	2 -		PA SS PA	2		2 (5()				0	-										
VERY LOOSE TO LOOSE SILTY AND CLAYEY FINE SAND, GREY (SM,SC)	4-		SS PA	3	\prod_{-}																	
(NO SALTY)	5		WO SS	5	\prod		(2,															
	6-		ss wo				(3,					1										
8.00	8-		SS WO SS			(0	(1) (15	(9,	ì					-								
MEDIUM DENSE CLAYEY FINE SAND, GREY (SC) (NO SALTY) 10.00	9-		wo ss wo			1	18	(4,	4)	:												
(NO SALTY) 10.00 DENSE TO VERY DENSE FINE SAND, BROWN AND GREY	10-		ss wo	io			50 / (25,	25/	100			5									 	
(SP-SM) (NO SALTY)	15-		SS WO SS	\Box		50	25) 7/2 5,25	r-Ct	\downarrow) 2											_	
	13-		wo ss wo	13	2	<u> </u>	22,														_	
15.15	14 - 15-		wo	14 15	(25) 4 371			}		-										
END OF BORING	_																					
	- -																-		-			
	_				-					-							-					
	. •				-	-															-	

BORING LOC PROJECT 02.05 HUA1 KHUM MUN LOCATION A. UBON RATTANA, KHON	····	EN			DE	РТН	(m.	·	2	0.3	5			-	OBS DAT	E S	/ED	WL TEC	(m. 26	1 9 (1) + 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (.00 /89		
SOIL DESCRIPTION		GRAPHIC LOG	метнор	SAMPLING B RECOVERY		(blo)		(%)		1	×	Su() UC; FV1	T (ΔP () T	γ		۲ _۱ ۱۷۱) ۱۵	n. ³)	<u> </u>
LOOSE TO MEDIUM DENSE ELTY FINE SAND, BROWN (SM)	l- 2-		·PΛ	2		3	(2,1					9											
(NO SALTY)	3-		wo	3		$\left \cdot \right $		(6),	8)														
6.00 DENSE TO VERY DENSE SILTY	5 -		SS WO SS WO	5	(20)	10 c	\setminus		C)											
FINE SAND, GREY AND BROWN (SM) (NO SALTY)	8		WO SS WO	8		(19,	21)4	5 CM 0 /10 0 c)													
	10·		WO SS WO	10		(2	9,21) 50															<u>: -</u>
	13:		wo ss wo ss	15		(2	4,2	\$ 4 \$	30														
HARD CLAY, BROWN (CL)	15		WO SS WO SS	15				45					0									0	
(NO SALTY)	16 17		SS WO SS	16 17		(36	0,2	СМ (0 Сі	M)														
	18		ss wo	18		(2	5)/ 5,2	20 C	M- (M)	.l													
END OF BORING 20.35	20		SS	20		5	9Z.	b C 5/5	CM	<u> </u>	L.	L			1_		1_				<u>L</u>	<u>L</u>	上

BORING LOC PROJECT 02.05 HUAT KHUM MUN LOCATION A. UBON RATTANA, KHO		AEN			DE	PTH	(m)		3(). 2	Ó			085 DAT	SER E S	VED TAI	WL.	(m.) _9) - '3/8	1.9	
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING B RECOVERY	ı	S (blo	ws/	11)		1		-⊖ (%) 0 4	ł	X	Su O UC FV	T T	Δ P D T	P V		γ ₁ (17,	m.³)
SOFT TO MEDIUM AND STIFF FINE SANDY CLAY, BROWN AND GREY (CL) (NO SALTY)	2-		PA	2	W	4 (2,2				Q	<u></u>										
4.50 MEDIUM DENSE SILTY SAND,	4 - 5-	-	SS WO SS	3 4 2 5		(1,) 1	o (•					·	o O		-						-	
BROWN (SM) (NO SALTY) 7,65 STIFF CLAY, DARK BROWN	6 7 8-		wo ss wo	6		/ } : 10	18) (2	8)														
(CL) (NO SALTY) 9.70 MEDIUM DENSE SILTY FINE	9 -		WO SS WO	1 1			16	(6,1	p)			0							•			
SAND, BROWN (SM) (NO SALTY) DENSE TO VERY DENSE SILTY	11-		wo	11		(18,	/															
FINE SAND BROWN (SM) (NO SALTY) 14.70	13 14 15		SS WO SS WO			(4 5 (3	0/2 0/ 0/2 0,20	0/5 0 C 3/5/	CM M SM)	3		ə 										
VERY STIFF SANDY CLAY, DARK GREY (NO SALTY) (CL) 16.30 VERY DENSE CLAYEY- GRAVELLY SAND, GREY	15 - 16 -		WO SS WO	16		9,	(24	21	2		6					· 						
(SC,SM)	18 - Đ -		wo SS wo SS	18.	_	(3·),16, O/K (*)18,1	(2.5 CM	СМ) 3												
END OF BORING 20.20	20-		wo SS	20	-		75		1			 				-	_			-		-

BORING LOCATION A. NAKAE, NAKHON	NO.1				DEF	RING PTH ORD.	(m.)		10	0.0	3			- 0 0	ÐSE ATE	RVE ST	D W	L (ED_	m.)	<u>-3</u> 23/	7,8 ,60 2/8	39	-
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING B RECOVERY		S P (blo () 20	ws/	ft)		· }-	(⊕ %)	LL 		5 O U X F 5	CT VT	©	PP TV		(√1 t/n 1.8		
VERY STIFF CLAY, DARK BROWN AND GREY (NO SALTY) (CL) 1.5) 1-		PA SS PA	1		٦	17	8,9)														
MEDIUM CLAY, BROWN AND GREY (CL)	2 -		SS PA	2								7									1	9	
(NO SALTY)	4.		PA SS PA	4		9/		5			A												
HARD SANDY-GRAVELLY CLAY, (LATERITE), REDDISH BROWN	6.		WO SS WO	8 1			/5		7	•													
(CL) (NO SALTY)	8	6	WO 33	8			/2.			,										-			
10.0	9	0/1	SS				/2.5) -													
END OF BORING		4																					
	- - -	1																					
																							_
		1 1 1																					
													-										
							-																

BORING LO	.1				DE CO	РТН	3 NO (im.)	4.	15	<i></i>		 OBS DAT	SER E S	VED STAR FINIS	WL STEC	(m.) 2) 2) <u>-</u> 23/	3./ 0.3 2/8	30 39	
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC	метнор	SAMPLING B	יים ארטים ו	(blo	PT - ows /	n)			(%)	Х	F۷	(1/) T T	OΤ	Ý		γ (۱/ ,6 1,		,
SOFT TO MEDIUM CLAY, GREY AND BROWN (CL) (NO SALTY) 3.80	2 -		WO SS WO	2	0	A (2,2	,		- - - -	7									. (0
VERY DENSE CLAYEY-GRAVELLY SAND (LATERITE), REDDISH BROWN (SC)' 4.15 (NO SALTY) 4.15 END OF BORING	4-		SS	1 1			0/1:) CA		6											
	-																			111111111111111111111111111111111111111	
	-																	:			
en e																					

BORING LOC PROJECT 04.01 HUAL SOENG NO LOCATION A. NAKAE, NAKHON PH	.1	1			DEP	ING N	i.) _	1	10.	03			_ 0	8SE ATE	RVE ST		L (r ED_	n.) 25/	-3 /2/		
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	METHOD SAMPLING	RECOVERY	(IC	SPT blows	/ft)		}	 ↔ (%	LL () (O 40		٥ ل ۲ ۴	VT	/m ²	PP TV		()	ዣ _፤ / m ³ 1.8 2	
SOFT TO MEDIUM CLAY, BROWN AND GREY (CL) (NO SALTY) S.OC HARD SANDY-GRAVELLY CLAY (LATERITE), REDDISH BROWN (CL) (NO SALTY) 10.00	5 · 6 · 7 · 8		PA	33 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3		7 (3	4 5 C	M M													

BORING ROJECT 04.02 HUAI SOENCE DISTRIBUTION A.NAKAE, NAKHON	NO.2					BC DE CC	RING PTH ORD	3 NC (m.)	BH 9.	I-1 .07				: 1	OBS	E S	VED STAF	WL TEC	(m.) O) 27	3.8 0.1 /2/ /2/	0.
SOIL DESCRIPTION		DEPTH (m.)	GRAPHIC	МЕТНОВ	SAMPLING	RECOVERY	S (bld	PT- ows/	· N (fi)	0	} }		- - 0 (%)) 0 4	1	X	Su (T T	Δ P □ T	P : V		7, (1/1 6.1.8	m³}
MEDIUM TO STIFF CLAY, AND GREY	BROWN]		wo ss wo	1	.(9	(4	5)														
(CH)		2 ⁻		ss wo	2	6							 	9						-			0
VERY DENSE CLAYEY-GRA	3.80 ÆLLY	4-		wo					<i>(</i> 15¢		•			,									
SAND (LATERITE), REDDIS BROWN (SC/CL)	SH	5 - 6 -		35 WO				50/1 50/															
(NO SALTY)		7 -		WO SS WO	7-			50/		,													
	9.07	9		\$5 WO \$5				50/ 50/				Ó			_							ō	
END OF BORING	;	_																					
	;	_																					
		-																		-			
		_																					
			-										-							-			
														,									
								<u> </u>	<u> </u>									:					-

BORING LOC OJECT 04.02 HUAI SOENG NO. CATION A.NAKAE, NAKHON PHAN	2				DE	PTH DORD.	(m.)	_2	,1	2				OBS DAT	E S	D EL VED Y TAR	VL (m.) į	+1 ./3	.50 /89)	
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	METHOD	SAMPLING B RECOVERY		S P (blov 10 20	us / f	t)		}	(°	0- %)	LL 40	X	UC FV	(1 / n T / T (O 15	49 Z VT E		(γ _t t/m 5 1.8	3))
MEDIUM CLAY, TRACE OF SAND, GREY (HO SALTYCL) 1.50 HARD SANDY CLAY(LATERITE) REDDISH BROWN (CL) (NO SALTY). 2.12	1- 2-		PA			ve (3		13 (M)									0	
END OF BORING																						
		1-																				
	ACCOMPANY SAFARANA																					
					,								-									4

SOIL DESCRIPTION	BORING LOC ROJECT 04.02 HUAI SOENG NO.2 DOCATION A.NAKAE, NAKHON PHANCE	2				DEI	РΥН	(m.)	_5	.1.	5				OBS DAT	ERV	/ED TAF	WL.	(m.)) <u>-</u> 27	8,6 1.3 /2/	89 '89
MEDIUM TO STIFF CLAY, TRACE OF SAND, GREY AND BROWN (CL) (NO SALTY) 4.50 VERY DENSE CLAYEY—GRAVELLY SS 4		T	GRAPHIC LOG	МЕТНОО	SAMPLING		(blo	ws /	fi)		1		⊖- (%))	4	C X	Su (UC FV	(† /) T.	m ²) △ P	P V		Υ ₁	t m³)
VERY DENSE CLAYEY-GRAVELLY SAND (LATERITE), REDDISH BROWN (SC) 5.15 END OF BORING	(NO SALTY)	3		SS PA SS PA SS	3	c	9	(2	,5) ,3)				O										0
	VERY DENSE CLAYEY-GRAVELLY SAND (LATERITE), REDDISH	1 1		PA								o											
																							,
						-																	
			•																				

BORING LOC 05.01: LAM KLANG 100CATION A. NON SOONG, NAKHON		СНА	:TM7	<u> </u>	1 .	BORING (DEPTH (COORD.						•			OBS Dat	ERV	ED Y	WL. 1	(m.) 	$\frac{-1}{0/3}$	97 , 20 2/8 2/8	 9	-
SOIL DESCRIPTION		GRAPHIC LOG	· · · · ·	SAMPLING		S.P. (blow 10 20	s/	ft)	,	 -		0 (%)	L! !	L,	 О Х	Su (UC	1/m r 2	n ²) 2 PF	,		Ϋ́η 1/π 5 1.8	3,	
MEDIUM DENSE CLAYEY FINE SAND, LI-GREY AND LI-BROWN (SC) (NO SALTY) 2.00 DENSE CLAYEY FINE SAND, LI-GREY (SC) (NO SALTY) 5.00 INTERMEDIATE SOIL (FINE SAND), LI-BROWN AND LI-GREY (NO SALTY) (CL/SC) 6.50 WERY DENSE CLAYEY SAND, LI-BROWN AND LI-GREY (SC) (NO SALTY) 9.50 HARD CLAY, REDDISH BROWN (CL) (NO SALTY) 15.15 END OF BORING	2- 3- 4-		PA	3 3 4 5 6 6 7 7 8 8 9 10 11 12 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14		50/ (36 50/2 (35 (35 (36 50/ (26 (38	28 22 25 22 25 26 27 28 29 20 21 20 21 21 21 21 21 21 21 21 21 21	29 13, 16 0 35 10 0 0 35 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S) M O) M CM (M) CM														0
		}					_				<u></u>		1-			1		1	1		1	_	

BORING LOG PROJECT 05.01 LAM KLANG LOCATION A.NON SOONG, NAKHON RA	· · · · · · · · · · · · · · · · · · ·	. TMT		QE	:PT	NG N H (n D	a.)	1	3.1	3				OB!	SER'	VED STAI	WL RTE	(m. (m. D	14.	Q. /2
	GRAPHIC LOG	1	SAMPLING	OVERT		PT			P l		₩ _n -Θ-		.L -{		Su) UC	(1/ T	m ²)	P	<u> </u>	(1
	8 J	¥ ⊞	SA			20		44					10				5 2	- 1	1	,6
STIFF FINE SANDY CLAY, LI-GREY		PΑ																		
(CL)	1-	SS	1		Ó	13 (5,8	 	-	P		<u>-</u>				ļ	-	-		-
(NO SALTY) 2 00	2	wo					1		L										L	
		SS WO	2		(26,3	s6)	6				1								
	3	1 .	3		+	+	7	1		 စု						ļ				-
VERY STIFF TO HARD FINE SANDY CLAY, LI-BROWN AND LI-GREY	Y A	wo		֓֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	(4,	IB)	03	P												
(CL)			4		(1)	7 17	16	4		9							1			
	5	W0	5	-	+	1	1-	-		}	5						-		<u> </u>	-
(NO SABIT)		wo	+			918	(8,	(b) 												
	6		6			1	28	J≀5)		4		-1								[
	7-	WO	7		-		+	+		0		_							<u> </u>	-
,		wo			(ع, ا	d) č	88								-			•	
9.00	8		8			(5,	35)	₩ Q40			P									
9.00	9	WO SS		_		1.	- -	$I \setminus$		\ \$							_		<u> </u>	ŀ
HARD CLAY, REDDISH BROWN		WO	7-1		(5φ/2 33,1	7/5	фм)												
(Cr)	10-	SS	10		50,	7 180 4) 9	M A2 S	- CM		6						-	-			r
(NO SALTY)	11-1	WO.	1 1		Ļ	1	/230	<u>]</u>												-
		WO	1 1		(2	ρυ, 1,23	1													
	12-	1	12	+	 	507 30,	200	dru	b	-										
13.13	13 📗	WO SS	1 1	\perp	1	5071	ł	}	1 '	J										-
END OF BORING																				
	1				\dagger	†	1	\top											-	-
]			_	1	-	_	-									_			-
	-																			
	1				-	1	1	-												1
	1			<u></u>	_	\perp	1	<u> </u>		<u> </u>										-
					1															
	+			-	-	+	-	+											-	+
	1											`								1
	1																			
	-			-	+	-	-	-	-							 -	-	-	-	╁

BORING LOC	y Y				BOR DEP	ING TH	NO.	B	H→ 5.	3 18					GRO OBS	UNC) EL	EV.	(m.) (m.)	99 3	.5		
PROJECT 05.01 LAM KLANG	V2 = 0		·····		coo										DAT	E S	TAR	TED	1	2/:	2/8	9	-
SOIL DESCRIPTION	RATH ("E)	,		SAMPLING RECOVERY		blo		ft)		1-	<u> </u>	(%)		.L. 1	O X	Su UC FV	(/ r T - r	n. ²) Δ PF	,	(γ _t t/m	3)	
LOOSE TO MEDIUM DENSE AND DENSE SILTY FINE SAND, BROWN AND LI-GREY (SC) (NO SALTY) VERY STIFF TO HARD FINE SAN CLAY, LI-BROWN AND LI-GREY (CL) (NO SALTY) 10.00 HARD FINE SANDY CLAY, LI- GREY AND REDDISH BROWN (CL) (NO SALTY) 15.18 END OF BORING	1- 2- 3- 4- 5- 6- 77- 8- 9- 10- 11- 12- 13- 14-		PA SS PA SS PA SS WO SS WO	1		(13,1 (17,12)	2,4) 25) (5, 1/2) (6,3 20, 7,18 1,10 7,18	3(IC	38 38 38 54 (M)				30	10				20					
A Commence of the Commence of	1 .		1		$ \cdot $	-	1	1	1		1	ļ	į	į	1	1	ļ		1	1	1	I	

BORING LOC PROJECT 05.02 LAM NAM MUN LOCATION A. PHIMAT, NAKHON RA	·	ASIM	IA		DE	ORIN EPTH OORE	(m)		<u> 20</u> .	45	· 			DA	SER	EVED STAI	WL RTE	(m,)()(8/.	0.3 2/8	30
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	METHOD	SAMPLING	מברא מיי		ows.	- N / ft : 1	١ .	1		W _n O (%	}	-1	(Ο UC X FV	(1/ 2T 11	Δ P D T	γ		Υ (1/ ,6 I.	'n
LOOSE SILTY FINE SAND, YELLOWISH BROWN (SP-SM) (NO SALTY) MEDIUM DENSE SILTY FINE SAND, GREY (SM) (NO SALTY) 7.00 MEDIUM DENSE TO DENSE AND VERY DENSE SILTY FINE SAND GREY (SM,SP-SM) (NO SALTY)	9- 10- 12-		PA SS WO SS WO	3 4 5 6 7 8 9 10 11		(15,	(4, 18)	(7,1 (7,1 (7,1 (7,1 (7,1 (7,1 (7,1 (7,1	7 6 2			0 0										0
STIFF CLAY, LI-GREENISH GREY (CH) (NO SALTY) 17.25 LOOSE SAND, LI-GREENISH GREY (SM) 18.30 (NO SALTY) DENSE TO VERY DENSE SAND, LI-GREENISH GREY (SP-SM) (NO SALTY) END OF BORING 20.45	14- 15- 16- 17- 18- 19- 20-		SS WO SS WO SS WO SS WO SS WO	15 16 17 18		38	(3, (4, (6) ≥5,	(5) (6)	51 50	P												7

BORING LOC	````				во	RING	NC)	В	H-2	2						1.0		(m.)			,	
PROJECT 05,02 LAM NAM MUN	· .					РТН								_	obs								
l .					CO	ORD.				-													_
LOCATION A. PHIMAI, NAKHON RAT	CHA	r ≥1M6	نـــنــ		-										DAT					J/ 1	-/0		
SOIL DESCRIPTION	E	SHC O	метнор	SAMPLING BECOVERY			• T -			PL H		0		.L. {			1/n		P		η,		
	gë,	GRAPHIC LOG	 w Σ	SAM		(blo						(%)		_					- 1		(17)		
		4.1				0 20	U 3	0 41			0 2	0 3	30 4	U) 15	, 20	<u></u>		6 1.	8 2.	<u> </u>
	-		PA																				
	1 -		SS	1							9								_	_	9	7	
			PA				92	2 (9	13)												\prod		
	2-		\$\$	2			o:	:6 (3,1)										·	1		
MEDIUM DENSE TO DENSE AND	3-	(A)	PΔ		<u> </u>			·			\prod											\prod	
VERY DENSE SAND GREENISH GREY	Ĭ,	1		3	ו	19	6 (g	,7)		·						-						Ï	
(SP-SM)	4		WO		<u> </u>	/-	<u>.</u>				_\					_	_	\perp	_	_		//	
(52-511)			SS	4		12	· (d	(6)			Ĭ										1		
	5⊸		WO	5			≥ 1	<i>y</i>	27			ķ	_		\dashv	\dashv		{	-	\dashv	-4		
			WO	3		l ''İ	3,15	7	31						ŀ				İ			İ	
	6-		SS	6	-		\mathcal{I}		-			-			\dashv	-				_	-		
·.	-		WO	Ť			322 	(13	9)														
	7~		SS	7			₹22 224	(11	(11)	\neg								1			1	\prod	
	1		wo				V		7.						ĺ								
·	-8-		\$\$	8		(16	,20) ह	6													9	
	9~		wo						\prod													\downarrow	
	9	0.72		9		(a	5,2	9)	54)										İ				
	10-	() ()	WO		_			4			$-\parallel$			_		_					_	_	
	. :		SS	10			92	2(8	(4)						İ								١ .
	11 -		WO	11					-		-6					\dashv	-	\dashv		-			þ.
	-		WO	├^^	1	þ	19	(7,1	2).		\						ŀ	l				1	:
,	12-			12			25	3 (1	112			+									寸	\neg	
13.00	-		wo				7-	Ŭ '	,,,			\										/	
	13~	7		(3	-	911	(5	(6)					р -				一					Ÿ	
STIFF CLAY, LI-GREENISH GREY			wo		1																		
	14-		SS	14	Į	8	4,4)															
(Cr)	15 -		WO																_	_	_		
	13-		SS	15	Ę	8	(4 ,	1)					? ¬	1								Ĭ	İ
	16 ~		WO		١.	١ ١						-/										}	_
17.00	,			16	1	012	(6	6)															
	17-	(WO	17	ļ						<u> </u>	∤ ∳⊣					_					-	þ
HARD CLAY, GREENISH GREY (CL)(HO SALTY)8.00			WO		١.	(19	26)	45	P														/
	18-		L	1,8	ļ	-	571) O	/			-				$\neg \dagger$							
DENSE SILTY FINE SAND, GREENISH GREY AND DARK			wo	-		13,	(1)	, 0	\setminus														L
BROWN (SP-SM)(SADTY)19.50	19-			19	-	2	2,2	5)4	80	-		ģ.		<u> </u>		_	_					o	
MARD CLAY, REDDISH BROWN		1	wo	1																			<u> </u>
(CL) (SALTY)	50-	1	SS	20	.(1	(17)	33	9					<u> </u>						<u> </u>				_

BORING LOC PROJECT 05.02 LAM NAM MUN LOCATION A. PHIMAI, NAKHON RA		ASIA	1A		DE	PTH	t (m	0.	2	7.4	15				OB: DA1	SER'	VED STAI	WL TE	(m))(11,)4.9).3(/2/(89	_
SOIL DESCRIPTION	0£РТН (m.)	GRAPHIC	мЕТНОВ	SAMPLING B BECOVERY	10740	(ы	0.45	- N /11) 30 4		1		- 0 (%) O 8	4	X	UC (FV	Ţ	m ² } △ P ⊡ T 5 2	P V	•	۲ _۱ ۱۷۱) ۱۵ ارو	n ³)	
HARD CLAY, REDDISH BROWN	21 -			21		()	5,2) P	37														_
(CL)	22-		wo	22		(1		4)			0	-										3 - - - - -	_
	24-		wo	24				23) 22)							-								
	25 - 26 -		SS WO	25				42 5) 4	1		d	=										-\	9
27.45 END OF BORING	27-		wo ss	27				39)											-				_ _
IND OI DOILE	_					5					-				-							-	-
	-						-																
						-																	
	-																						
													-										
	-									-													
	-																						

BORING LOC	y y				ı). 										EV.(6.2 ,35		-
PROJECT 05.02 LAM NAM MUN	•							'			J										2/8	9	-
LOCATION A. PHIMAI, NAKHON RAT	CHA	STM	Λ	~~	""		`														2/8		~
Luci, Iou				<u> </u>						~				=					 T			2	_
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	METHOD	SAMPLING RECOVERY		(blo		· N fi) O 46		PL F		O 1%)		⊙ X	UC1 FV1	r (n€) 3 PP 3 TV - 20			γ ₁ 1/m 5 1.8		
			PA									~~~											
LOOSE TO MEDIUM DENSE SAND, LI-BROWN AND GREENISH GREY	5-		PΑ	2			(3,	,6)				· · · ·										1	
(SM)	3-		РΔ			7	<u> </u>					- -					_		\perp		A	-	
(NO SALTY)	4 -		WO	3		1	19	(9,	10)												1		
			SS WO			8	(4	4)															
	5~		SS WO	5			02	ð(10	,13)		_/) 									1		
÷.	6 -		SS WO	6			18	(8,	10)														
	7-		SS WO	.7	4	1	2,3)			F Q I												
8.35	8-		SS	8		50	/1:	CN	7	5													,
PEAT TO LIGNITE, BLACK AND BROWN (PT)(SALTY)8.50	9-			9	{1	7,3	₹)	196	/_			1				-		\dashv			-	$\frac{1}{\sqrt{1}}$	
	10-	13 % 20 % 20 %	WO SS	10	-	2	7 Q	(14	13)			+			-				1		-	9	
DENSE TO VERY DENSE SAND, LI-GREENISH GREY AND GREY,	11-		WO SS	11	(16	19	3:	6				0			!						$-\psi$		
SOME PEAT BETWEEN 19.00- 19.45 m DEPTH	15-	等交 化等	wo ss	12	TO THE PERSON NAMED IN COLUMN 1	, ,	7.0	45	6			-									+	+	
	13-		WO SS	13	300	50)/29	См				ø							_		4	-	
(SP-SM,SM)	14.		WC SS	14	-	(2	6,24	1/13	CM		-	-							-		\forall	-	
(SALTY)	15		WC		<u></u>	<u> </u>	_	6 Q	X				_	-							-	-	
	16		WC				(35,	15/5	CM)				-	-			_				-	H	
	17		wo			ļ.,	-	35)	/	Ĭ 			-	_					<u>-</u>			\dashv	
	18		WC)		_	1_	\$ 0°	7	 		-											\ \ \ \ \
	10		SS	,		(30,2	2bc 0/5	¢M)	_			-	-			-				· 		
	Ε.		W	2		(1	14, 5	O/IC	СМ						_		_						1
END OF BORING 20.45	20	::	ss	20	1	150)/128 24.,7	K N	зсм	1	c	1_	1_	<u> </u>	<u></u>	1.		Ļ	<u>L_</u>	<u> </u>	Щ		_

BORING LOC PROJECT 05.03 LAM PHRA PHLO LOCATION A. PAK THONG CHAI,	ENG		RAT		CO		(m.)	.22	.0	3				DA"	SER	VED STAF	LEV WL RTEI	(m.	1_	5 . 5 289	50)	
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING BECOVERY T	l	\$ I (blo O 2	• T • iws /	N (11.) 0.4	0			(%)	L.L. -1 -40	,	(FV	T.	m ²) △ P ⊡ T 5 2	γ .		7 (17 6 1	m. ³)	
SOFT TO STIFF FINE SANDY CLAY, DARK BROWN (CL) (NO SALTY) 4.50 LOOSE CLAYEY FINE SAND, DARK BROWN (SC) (NO SALTY) 7.00 MEDIUM DENSE CLAYEY AND SILTY SAND, DARK BROWN AND GREY (SC,SP-SM,SM) (NO SALTY) 12.00 VERY STIFF CLAY, TRACE OF SAND, DARK BROWN (CL) (NO SALTY) 15.50 DENSE CLAYEY FINE SAND (INTERMEDIATE SOIL), DARK BROWN (SC/CL) (NO SALTY)	1- 2- 3- 4- 5- 6- 7- 8- 10- 11- 12- 13- 14- 15- 16-		PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS PA SS	3 3 3 4 4 .5 6 7 8 9 10 11 12 13			(3, (4 (2, 1) 2, (2 17) (1 (2 (4 (4 (4 (4 (4 (4 (4	5) 9) 9) 3)	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c				3									9	5 O,
20.00 HARD SANDY CLAY (CL)	19 - 20 -		PA	19 0S			2.5	25 5 CA VIQ		 	G			1									

BORING LOC BORING LOC 05.03 LAM PHRA PHLOEN OCATION A. PAK THONG CHAI, NA	G	1 RA	TCH.	ASI	CO	PTH	(m.)	•••	_2	H-1 2,0)3_		OE DA	IOUNI ISER TE S	vED STAR	WL ((m.) _ <u>11</u>	-5 /2	\$50 /89))	
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING B RECOVERY			ws/ 0 30	fi) > 40	,	PL 	(0− %)		Su ⊙ UC X FV 5 I	τ	Δ PF □ T\	<i>'</i>		γ ₁ (1/1	m. ³)	
HARD SANDY CLAY, LI-BROWN AND GREY (CL) (NO SALTY) 22.00 VERY DENSE SANDSTONE, BROWNISH GREY (NO SALTY) (SM) 22.03	21-	No.	wo SS wo	2L.#		50 (30	0/2 ,26, /23), 20 50/	/IO C CM /80	(M)												
END OF BORING																					
	:.				 -		-														1

					÷								-								В-	22
BORING LOC		ayan'i Piramini Ajamanan,	:. 		1	RIN									GRO	NUC	D E	LΕV	, (m.)	90.	4
OS OS TAM DUDA DULOTO					•	PTH									1					*	0.2	
11001.01						ORD			·			-	: 	-		-			-		2/8	
OCATION A. PAK THONG CHAI, N.	AKHO	ON F	WIC	HAS	IM	1														5/	2/8	9_
		U .	Q	SN:		S :	рΤ	id						.l.							τ,	
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC	F.	200€	3	(bl		- 4.	100	'		 (%)		1			T T				(17 (17)	•
	집)	8	*	SA		0 2	0 3	50 4	0	5	0 4			Ó.			0 1			1.	.6 i.	
STIFF TO VERY STIFF SANDY			wo																			
CLAY, GREYISH BROWN AND	1 -				<u></u>		_															<u> </u>
DARK BROWN			W0		19	10 (3,3										٠.					, }
(CL)	2 -		1	2	ļ\	b 10	1 1 1	5)									-			-		
(NO SALTY)			wo]	\									٠.							
3.50	3 -		1	3		b	16	(6,1	b)	-										-		
MEDIUM DENSE CLAYEY AND			WO																			i '
SILTY SAND, DARK BROWN	4 -		SS	4		K i	(:	,6												-		
AND GREY (NO SALTY)	5 -		WO			7	_							_								
(SC,SM) 5.50				5			17	(7,	0)													, 1
VERY STIFF TO HARD CLAY,	6-		WO	6	<u> </u> _	-		O (8	123													
DARK BROWN			WO	6			R	:D (0	, ' (٠							<u>,</u>
(CL)	7 -		ss	7	ļ.,	_	77	<u></u>	_		<u> </u>							_				_[
(NO SALTY)			wo	1 1	,		/	ſ `	Ϊ										·			'
	8 -		SS	8	-		1/2	0	-													
·			wo			$ \cdot $	[{	9,1	()													
	9 -		}	9	1	d	16	(7,	9)	-												
	10-		WO			_	\setminus	<u> </u>	1 .	<u>:</u>								_		ļ		
11.00			4	10]	113,)7) Ì	b 3	0													
11.00	11 -	200	WO	11	_	(13	10)		_	_					~							
DENSE CLAYEY FINE SAND,			wo			,,,,	, ,	1	ľ	·												
DARK BROWN (NO SALTY)	12-			12	(2	5,2	b)	45	2			-						-		-		
(SC) 12.80			wo					/	ľ													
VERY STIFF CLAY, DARK BROWN	13 -		SS	13		13,1	7)(31	ļ													
(CL)	14 -		wo						L													<u> </u>
(NO SALTY)	154		4	14	(1	2,14	1)0	56		:						1						
,	15 ~		WO	15			\prod	-											-	_		
16.00			WO	15	()	k,10] [2														
MEDIUM DENSE CLAYEY FINE	16	13	1	16		11,1	710	S	ļ		-	!						-	-	-		-
SAND, DARK GREY (SC/CL) 16.79			WO			/	1										}					
MEDIUM SANDY CLAY, DARK	17.		SS	17	0	7	2,	5)		-												
GREY (NO SALTY) (CL) 18.00	18 -		wo						1	_	<u> </u>					L	,					<u> </u>
VERY DENSE SANDSTONE, GREY (NO SALTY) (SM) 18.05		12156	->>) 5	0/5	י איזנ							_						
END OF BORING					1]	1									1	1	1		_	 	<u>_</u>

BORING LOC					BORING NO. BH-3 GROUND ELEV.(m.) 94.4	
					DEPTH (m.) 20,22 OBSERVED WL (m.) -5,50)
PROJECT 05.03 LAM PHRA PHLOE					COORD. – DATE STARTED 8/2/89	
LOCATION A. PAK THONG CHAI, N	AKII	ON I	ZATC	CHAS	(MA DATE FINISHED 10/2/89	
SOIL DESCRIPTION	0EPTH (m.)	GRAPHIC LOG	метнор	SAMPLING RECOVERY	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
STIFF TO VERY STIFF FINE SANDY CLAY, DARK BROWN (CL)	2-		PA SS PA		φ (2 (6,6)	
(NO SALTY)	4 -		РА	3	9 (4,5) 9 15 (6,9)	-
	5-		PA SS PA	5	\$\frac{20(9,11)}{61-1-1}	
	7-		РА	6	φ 20 (g,11) P	
	8-		PA SS PA	.8	8 18 (810)	
9.50 MEDIUM DENSE CLAYEY SAND, DARK BROWN (NO SALTY) 10.50			SS PA			
VERY STIFF SANDY CLAY,	It.		PA SS PA	11	(13,10) (24) (12,12)	1
(CL) (NO SALTY) 13.50	13		PA SS	13		
MEDIUM DENSE TO DENSE CLAYEY FINE SAND, DARK BROWN AND GREY	14		PΑ	14	(8,14)	
(SC) (NO SALTY) 16.50	1		РΔ	16		
VERY STIFF FINE SANDY CLAY DARK BROWN(CL) 17.50 (NO SALTY) MEDIUM DENSE TO DENSE AND VERY DENSE CLAYEY FINE			PA	17 S 18	0 28	
SAND, DARK BROWN (SC)	19		PA	6 19	7:	
END OF BORILIG 20.22	20	逕个	SS	20	50/23 CM 5 0 (32,20/8 CM)	

BORING LO ROJECT 11.01 LAM NAM KAM OCATION A. MUANG, SAKON NAKH					DE	PTK	(m	}	14.	.05	· ·				OB: DAI	SER LE S	VED STAI	WL TE	. (m. (m. D) 20/	3.2	20 89
SOIL DESCRIPTION	DEPTH	GRAPHIC	METHOD	SAMPLING	KECOVER	(ble	ows.	- N / fi)				W _n O (% 20 3)	1	,	Su DUC FV	T	Δ F ① T	γP	ŧ	7 (17 6 1	m ³)
MEDIUM DENSE SILTY FINE SAND, BROWN			PA SS			φli	,	\$,7											_			
(SM) (NO SALTY) 3.00	2 -		PA SS PA	S		8	4 (7,7)		0				: : : :: : : : : : :							0
SOFT TO MEDIUM FINE SANDY CLAY,	3		PA	3	1/	. :		4)	**************************************													
(CL) (NO SALTY)	5		WO SS	5															-	ļ		
7.00	6		wo	1								6			_							
LOOSE TO MEDIUM DENSE SILTY AND CLAYEY SAND, BROWN	8-		wo	7) (8,	7)					2.2	-							
(SM,SC) (NO ŚALTY)	9-		wo ss wo	9	d :	(1	2)															
11.00	10		S S WO	10 II	}	5		21(7 3 C														/
HARD CLAY, DARK BROWN (CL)	15		wo ss wo			:	1	3 C/ (BC)	0							_			-6	,
(NO SALTY)	13 -		SS WO	13)/10 /5€	s CW))						-						
END OF BORING	n		1.13																<u></u>			
	-							5 - S										_				
	-						 										-					
					L		L										_					

K. ENGINEERING CONSULTANTS CO., LTD.

BORING LOC	DE	DEPTH (m.) 9.03 COORD. —										GROUND ELEV.(m.) 95.40 OBSERVED WL (m.) 0.00 DATE STARTED 17/2/89 DATE FINISHED 19/2/89										
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING B RECOVERY		S P (blo		ft)		 -	(0 %)	LL -1 40	>	Su(t I	∆ PF □ T\	']	(γ _t t/m 5 1.8	n ³)	
LOOSE TO MEDIUM DENSE CLAYEY SAND, BROWN AND GREYISH BROWN (SC,SP-SM) (NO SALTY) 4.50 VERY STIFF SANDY CLAY, REDDISH BROWN AND LI-GREY (CL) 6.00 HARD CLAY, DARK BROWN (CL) (NO SALTY) 9.03 END OF BORING	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 -		WO SS WO WO	2 3 4 5 6	0	5 (25)	2,3	23 ,5) 6 CM (15C	2) (M) (M)		C		40		5 10	D 15	200		1.6	6		5
						1																

BORING LOG PROJECT 11.01 LAM NAM KAM LOCATION A.MUANG, SAKON NAKHON							BORING NO. BH=3 DEPTH (m.) 19.05 COORD.											GROUND ELEV.(m.) 98.95 OBSERVED WL (m.) -3.00 DATE STARTED 17/2/89 DATE FINISHED 19/2/89									
SOIL DESCRIPTION	DEРТН (m.)	GRAPHIC LOG	МЕТНОВ	SAMPLING		(Ъ	PT ows/	(11)		'		- O (%			0	O UC	T T	m ²) △ p ⊙ t 5 2	P V		1, (1/	m³)					
VERY LOOSE TO LOOSE AND MEDIUM DENSE SILTY AND CLAYEY FINE SAND, BROWN (SM,SC) (NO SALTY) 8.00 VERY STIFF TO HARD SANDY CLAY, REDDISH BROWN AND LI-GREY (CL) (NO SALTY)	3 - 3 - 4 - 5 - 6 - 7 - 9 - 10 - 12 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15		PA SS PA SS	2 3 3 4 4 5 6 8 9 10 11 12	(12)	2 (1 (14 (14 (15 (15 (15 (15 (15 (15 (15 (15 (15 (15	2 (4 2,2 2,2 3,1 25)	(8, 3)	35				0 4					5 2			61,	8 2 .					
HARD CLAY, DARK BROWN (CL) (NO SALTY) 19.05	16- 17- 18-		SS WO SS WO SS WO	17	(35 50	72: 157 7/9	B CI	A)	3		5									<u>-</u> ठ		The second secon				
END OF BORING					-					: 																	