BORING LOC	` `				QE:	RING PTH IORD.	(m.	1	1.	80				_ ()#SE	RVE	ED Y	YL (m.)	2	5.0 2.9 /89	5	
LOCATION A. SI BUN RUANG, UDG	N T	нуи:	Ī.		_																/89		
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING		S F (blo		ft)	,	} -	(0 %)	LI 		Ο I	LOT	<u> </u>	99 <i>(</i> VT (1		Ϋ́1 1 / m 5 1,8		
STIFF SANDY CLAY TO CLAYEY SAND (INTERMEDIATE SOIL), BROWN (SC/CL) (NO SALTY) 2.50 MEDIUM DENSE SAND WITH	l		ÐΑ	2	8	00) O (5	,5)			Į	7										0	
GRAVEL AND CLAY, BROWN (SM) (NO SALTY) VERY LOOSE SAND WITH GRAVEL, BROWN (SM) (NO SALTY) VERY STIFF SANDY CLAY, BROWN	4 ⁻ 5 -		PA SS PA SS WO	3 4 5		(0,	٥()	(7, 7 24 4,10	}														
(CL) 6.80 (NO SALTY) 6.80 MEDIUM DENSE SILTY FINE SAND, GREY (NO SALTY) (SM) 8.25 HARD CLAY, DARK BROWN (CL)	7 - 8 - 9 -		wo ss wo ss wo	7 8		50	/80 ,35	(7, СМ ∕50	(X)		0											Θ	
(NO SALTY) 11.08 END OF BORING	10		wo	10	1			5.€N CM) -													
END OF BOATING																							
		-														-							

PROJECT 14.02 LAM NAM PHUAT LOCATION A.SI BUN RUANG, UDON		NI			80 DE CO	RING PTH ORD	3 NC (m.)	BH 6.	1-2 05 -					OB:	SER	VED NATE	WL RTE	. (m. (m. D)	-0 3/8	05	
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING	ייייייייייייייייייייייייייייייייייייייי	(ble	PT - ows /	tl)	١	}		- 0 (%) () 4(4))	UC FV	T T	Δ F Τ 🗀	p .		7, (1/ 6 1,	m, 3	
MEDIUM DENSE GRAVELLY SAND BRONW (SP-SM) (NO SALTY)			PA SS PA SS	1			1 2				<u> </u>			-									
LOOSE SAND, WITH GRAVEL, BROWN (SM)(NO SALTY) VERY STIFF SANDY CLAY, GREY (SC/CL)(NO SALTY) 5.00	3 -		wo ss	4		\ \ \ \ \ \	_	±) 5) 0 ((≋,6		00								-				ē
VERY DENSE GRAVELLY SAND, GREY (SM) (NO SALTY) END OF BORING	6 -		wo ss wo ss	5	8	(2	/20 7,21 7/5	/5	M)	3	<u>{</u> -												
	-																						<u> </u>
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BORING LOC PROJECT 14.02 LAM NAM PHUAL LOCATION A.SI BUN RUANG, UDON		IANI			BOR DEP COO								_ C	BSE ATE	: ST	D Y	VL (m.) 8,	-3 /3/ /3/	89 89	0
SOIL DESCRIPTION	OEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING B RECOVERY	(S P blov	ks/	tt)		۲	 - 0- %)	LL 		Χt	UCT FVT	£	2) 2 PP 3 TV 2C		(γ ₁ 1/π 1,8	3) 2.0
VERY STIFF SANDY CLAY, BROWN (CL) (NO SALTY) MEDIUM DENSE CLAYEY SAND, WITH GRAVEL, BROWN (SM,SM-SC) (NO SALTY) 7.00 VERY DENSE GRAVELLY SAND AND SILTY FINE SAND, BROWN AND GREY (SM) (NO SALTY) END OF BORING	8		PA SS PA	2 3 4 5 6		(17, 50, 50,	20) 20) 24) 718	26 2,14 (7,9 24 12,1 0 35 44) 2) 37 0											G	
		1																			

BORING LOC PROJECT 15.07 LAM SOM NO.1 LOCATION A. DET UDOM, UBON RATO		'НАН'	1		DE	PTF	G N(I (m)	8.	27	. _		 	OBS DAT	SER'	VED STAF	WL RTE	(m.) no 072	98 >t ?/8	fou	ine
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING	HECOVERY	s (ы	PT ows/	- N /11)	0	ì		-O- (%	1	O X	UC	T T	m ²) △ P □ T 5 2	P		. 7 ₁ (1/	m, ³)	
LATERITE, REDDISH BROWN (NO SALTY) 1.00 VERY LOOSE TO LOOSE AND	1-		PA SS PA	-		0	11 (5,6	-		 									0		
MEDIUM DENSE SILTY AND CLAYEY FINE SAND, LI-BROWN AND YELLOWISH BROWN (SM,SC/CL)	3-		РА	3			(3,3									-						
(NO SALTY)	4- 5-		SS PA		*	2 (1	2 (5,7													1	_ - -
7.50	6- 7-		SS PA SS	6	(9	1	0	22				\$	 -, 1									P
VERY DENSE SILTSTONE, REDDISH VIOLET (SM) 8.27/ END OF BORING	8		PA SS SS	8 9			50/1 52/	3 G 5 C	S S	3	4	·										-
	_				-																	
	-																					
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BORING LOCATION A. DET UDOM, UBON RAY		AHT'/	NI.		BO DE CO	RIN(PTH ORD	3 NC)	BI 2.	1-2 00				. C	SROU OBSE OATE	RVE D	WL RTE	(m.) 19/	1. 2/	80 89	
SOIL DESCRIPTION	DEPTH (m.)	GRAPHIC	метнор	SAMPLING RECOVERY		S (blo	ows /	(fL)		1	1	O (%)			ΧF	(1/ CT VT 10	∆ ; ⊡ 1	P V			1 m ³) 8 2 (·····
MEDIUM DENSE SAND, LI-BROWN (NO SALTY) (SM) 1.35 VERY DENSE SILTSTONE, REDDISH VIOLET (NO SALTY) (SM) 2.00	1-		PA SS PA				,35					Э								•		
END OF BORING																						
													,									

BORING LOC PROJECT 15.07 LAM SOM NO.1	ינ ע	,			DEI	PTH	(m)	ВН- 9.(28_					OB:	SER	VED	WL	(m):	98. -3.	90
LOCATION A. DET UDOM, UBON RATO	CHV,T	HAN	Ţ								: i.										2/8	
SOIL DESCRIPTION	OEPTH (m.)	GRAPHIC LOG	метнор	SAMPLING B RECOVERY		(blo	WS A	- N (fi))	1	L 0 2	· · · · · · · · · · · · · · · · · · ·)	-	G X) UC	() / CT CT	ΔP ⊡T	P V	Į.	γ, (+/	
LATERITE, REDDISH BROWN (NO SLATY) 1.00	-	3 849 3 6 3 6	PA																			
STIFF TO VERY STIFF AND HARD CLAY, BROWN, LI-BROWN AND LI-GREY	2-		SS PA SS PA	2		9 b }	S (C	5,6)			0											ф
(CL)	3~		SS PA	I		- (),5	> (a	974	 	6	-							·			1
(SALTY)	4-		SS PA	4		9	16	(8,	10)													
	5 -		РА					1,12			9	-									1	
6.50 LOOSE TO MEDIUM DENSE FINE	7		PA	7				4)		1.	\	\										4
SAND, LI-GREY (SALTY) (SP-SM) 8.20	8-		PA	8.9							ا ا	\rightarrow									1	
VERY DENSE SILTSTONE, REDDISH VIOLET (SM) 9.08 (NO SALTY)	9		PA -SS				İ	5) 3 Cr		, -	_ <u>_</u>									,		
END OF BORING	- 1							.:				-										
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APPENDIX 6

· Economic Effect

Basic Data for Cost Benefit Analysis

	Vehicle	Car/ Pickup	E-tan	Bus	Truck	Total
Α.	ADT in 1988 (Total of 51 Bridges)	3818	2535	1521	1723	9579
m m	Annual Growth Rate	. %9	%7	%9	%7	1
ပ	Average Saved Distance	3 km	3 km	3 km	3 km	3 km
ė.	VOC per Km (Bhat/km)	3.1	2.3	6.3	7.7	ı
<u>ы</u>	Saving in VOC (Bhat/Vehicle)	9.3	6.9	27.9	23.1	
Et.	Traveling Speed (Km/h)	07	20	07	07	ı
છ	Saving in Traveling Time (minute)	4.5	6	4.5	4.5	1
н	Average Occupancy (person/vehicle)	3	1	2.1	2	ı
ri.	Time Value of Passenger (Bhat/pass.min.)	1.3	1.3	1.3	1.3	ı
ŗ.	Average Loading (ton/vehicle)	9.0	0.2	0	2.5	1
₩.	Lease Charge of Vehicle (Baht/min)	1.7	0.2	0	7	ı
₩.	Saving in Passengers Time Cost (Baht/vehicle)	17.6	11.7	122.9	11.7	ł
M.	Saving in Lease Charge (Baht/vehicle)	7.7	1.8	0	31.5	1
z	Total Saving in Time Cost	67	36	328	115	1

Source .

ADT in 1988: PWD

All other data were obtained by hearing survey to many persons concerned.

Note:

Saving in VOC = C X D

Saving in Traveling time = $C \times (60 \div F)$

Saving in passenger's time cost = G X H X I

Saving in lease charge = G X K

Total Saving in Time Cost = L + M

Standard Conversion Factor = 0.9

Annual growth rate of passenger's time value = 0.02

AADT

	CARZ				
YEAR	PICKUP	E-TAN	BUS	TRUCK	TOTAL
1990	4290	2742	1709	1864	10604
1991	4547	2852	1812	1938	11149
1992	4820	2966	1920	2016	11722
1993	5109	3084	2035	2096	12325
1994	5416	3208	2158	2180	12961
1995	5741	3336	2287	2267	13631
1996	6085	3469	2424	2358	14337
1997	6450	3608	2570	2452	15081
1998	6837	3752	2724	2550	15864
1999	7248	3903	2887	2652	16690
2000	7683	4059	3061	2759	17560
2001	8144	4221	3244	2869	18478
2002	8632	4390	3439	2984	19444
2003	9150	4565	3645	3103	20464
2004	9699	4748	3864	3227	21538
2005	10281	4938	4096	3356	22671
2006	10898	5135	4341	3490	23865
2007	11552	5341	4602	3630	25125
2008	12245	5554	4878	3775	26453
2009	12980	5777	5171	3926	27853
2010	13758	6008	5481	4083	29330
2011	14584	6248	5810	4247	30888
2012	15459	6498	6158	4417	32532
2013	16386	6758	6528	4593	34265
2014	17370	7028	6920	4777	36094

Benefit (1000 Baht)

					٠.														11				e.		4	
Total Benefit		808	59.85	595	273204	9167	1146	5267	5540	7977	15.89	3390	5395	9617	3074	5784	3765	5037	9624	4548	9836	50.7	1613	8165	5204	
Total Time Saving	0	40,4	3551	9879	213070	2841	0655	5263	3169	1219	2424	4795	7347	10.91	3045	5223	9644	3325	7288	1555	6149	1095	6422	2158	833	
Vehicle's Time Saving		47	367	348	42395	539	949	369	5	24 (4	762	364	7	4.30	748	777	11 } 	771	14.7	14.1	956	90	84.9	330	83	
Passenger's Time Saving	O	536	984	5830	170675	3401	9840	1393	30.68	4876	5826	3931	1202	3652	5297	9150	2230	5554	9141	3013	1192	1703	6572	1828	7501	
VOC Saving	<u></u>				60134																					
ADT		4	172	232	12961	563	133	508	586	969	756	847	744	146	153	267	386	512	845	400	933	880	200	426	603	
Year	0,	Ö,	9	0	1994	6	Ų.	9	9	9	8	8	Н	Я	8	Н	Н	님	Ы	В	5	5	5	5	0	
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ECONOMIC CASH FLOW (1000 BHAT)

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TOTAL TN PREST ENT VALUE	001 000 000 000 000 000 000 000	0614477
TOTAL BENEFITE	2233 2233 2233 2233 2233 2233 2333	
RESIDUAL VALUE	1090000 2251500 226050 216050 215100 206960 206960 1932240 1887770 1751570 175	
S S A V I N E B G N E F I I G	0.00	
VOC SAVING BENEFIT	200252 54342 560146 601165 601162	
107AL 0081	1193110 2046	
MATERANCE AND AD- INISTRA- ION COST	200460 200460 200460 200460 200460 200460 200460 200460 200460 200460 200460 200460 200460 200460 200460 200460 200460 200460	
NORT TENNE	000000000000000000000000000000000000000	
>- in q	2002 2003 2003 2003 2003 2003 2003 2003	2 2 2 3

Note:

- (1) The Maintenance cost is 1.0% of the construction cost
- The time saving benefit is the total of the passengers time saving and the time saving of vehicle itself. (2)
- (3) At the end of evaluation period, residual value is added to total benefit.

Жe,	Bridge Ko.	ear/Pickup	E - tan	Bus	Truck	Total
1.	02.02	76	72	44	20	212
2.	p2.03	76	72	44	20	515
3.	03.01	86	69	. 103	87	345
4.	03.02	86	69	103	87	345
5•	03.03	80	67	101	63	311
6.	03.04	80	6.7	98	63	309
7.•	04.04	51	33	9.	19	112
8.	04.05	51	33	9	19	112
9•	05.04	52	45	9	6	112
10.	0.5.05	52	45	9	6	112
-11.	06.01	37	30	19	20	106
12.	06.03	46	53	26	23	148
13.	ø6. 0 4	47	50	8	14	94
14.	07.07	43	46	9	19	117
15.	©7.0 8	43	46	9	19	.117
16.	08.01	117	83	8	52	260
17	08.02	115	83	8	52	258
18.	08.03	109	73	13	47	242
19.	48.94	109	73	13	47	242
20.	08.05	109 -	73	13	47	242
21.	09.01	61	39	10	16	126
22.	09.03	58	17	15	11	101
			95			

Traffic Volume (ADT.) 1988

Bridge	car/Piokup	E - tan	Bus	Truck "	Total
09.04	60	39	10	16 .	127
10.01	97	55	134	56	342
10.02	102	59	134	56	351
11.03	98	26	9	16	149
12,02	66	33	26	40	165
13.01	76	40	20	16	152
13.02	76	40	20	16	152
13.03	90	45.	8	18	161.
13.04	97	46	8	18	169
13.05	46	24 .	1. 4	. 5	79
13.06	46	24	4	. 5	79
14.04	106	89	53	67	315
14.05	106	89	53	67	315
14.06	106	89	53	67	315
14.07	106	69	53	67 -	315
15.03	80	40	28	43	191
15.04	92	. 30	22	40	184
15.05	84	43	11	38	176
15.06	80	30	10	34	162
		_96		-	

Хэ.	Eridge	Car/Pickup	E-tan	Bus	Truck	Tota
	Xo.	, , , , , , , , , , , , , , , , , , ,				100
					,	
1.	to.to	41	32	14	32	11
2.	02.05	47	51,	16	41	19
3.	64.01	84	22	9	32	14
4.	04.02	84	22	9	32	1.4
5	95.91	28	27	21	10	}
6.	05.02	29	25	19	10	
7.	95.03	23	22	18	3	
8.	11.01	98	, 26	11	16] 1!
9•	14.02	. 102	89	53	67	31
10,	15.07	84	43.	11	38	17

Basic Data for Cost Benefit Analysis

	Vehicle	Car/ Pickup	E Ltan	Bus	Truck	Total
Α.	ADT in 1988 (Total of 51 Bridges)	3818	2535	1521	1723	9579
ር	Annual Growth Rate	%9	%5	89	%7	1
ပ်	Average Saved Distance	3 km	3 km	3 km	3 km	3 Km
Þ	VOC per Km (Bhat/km)	3.1	2.3	٤٠6	7.7	
ĿI	Saving in VOC (Bhat/Vehicle)	6.3	6.9	27.9	23.1	ı
[II.	Traveling Speed (Km/h)	07	20	07	07	ı
ა	Saving in Traveling Time (minute)	4.5	σ	4.5	4.5	1
н	Average Occupancy (person/vehicle)	3	1	21	2	ı
₩	Time Value of Passenger (Bhat/pass.min.)	1.3	I.3	1.3	. E.1	1
b	Average Loading (ton/vehicle)	9.0	0.2	0	2.5	l
×	Lease Charge of Vehicle (Baht/min)	1.7	0.2	0	7	ŧ
ч.	Saving in Passengers Time Cost (Baht/vehicle)	17.6	11.7	122.9	11.7	ı
Ж	Saving in Lease Charge (Baht/vehicle)	7.7	1.8	0	31.5	ı
×.	Total Saving in Time Cost	67	36	328	115	l

																							•		
TOTAL	160	114	172	232	296	363	433	508	586	569	756	847	944	046	153	267	386	512	645	785	933	880	25.4	34265	909
TRUCK	9	W)		5	ω	8	S	rV	S	N	N	8	ω,	5	$\frac{2}{2}$	N U	\t	A)	/	Q,	\Box	2	4	4593	7
Sna	Ó	$\overline{}$	ú	3	S	8	5	7	72	ω	8	7	, +	4	8	8	34	3	ω.	1-	4	$\frac{\infty}{1}$	<u>C</u>	6528	9
E A A N	4	$\tilde{\mathbb{N}}$	6	∞	Ö	W	9	5	3	5	Σ	1/1	₩.	10	74	11.)	14.)	W.	IV.	7	Н	VI 2	4	6758	6
CAR/ PICKUP	0	4	8	$\overline{\Box}$	-	7	8	S	33	7	8	4	9	$\overline{\mathbf{v}}$	9	028	80	155	224	298	375	458	545	16386	737
YEAR	6	6	9	0,	9	9	0,	6	6	9	8	음	8	Н	딤		님	Ы	占	Ы	0	ö	5	2013	0

ECONOMIC CASH FLOW (1000 BHAT)

			-			٠.																				
NET PRES-	-1090000	204102	80509	170179	155022	140955	127901	15789	10110	94121	84445	75468	67139	59411	52240	45587	39413	3684	28368	23434	18854	4603	10658	9669	~	
TOTAL SEWEFIT IN PRES- ENT VALUE		8117	2716	7655	0000 0000	5058	1911	128549	1881	0983	0156	392	588	339	43.0	886	375	903	467	1064	692	348	030	736	99	298
TOTAL COST IN PREST	000060:	02219	 !-)	42S	40	Ċ	<u>~</u>	5	42	S	8	Ε.	5	-	69	33	5	7.	S.	M LJ	6.4	~	√ T	11.3		~
TOTAL		7387	100	7260	70 L o	1072	5181	354415	7863	0460	3244	6229	9431	2865	655 C	0503	7446	9300	4189	9438	5074	1127	7628	04612	7697	
RESIDUAL VALUE	1090000	COLUMN CO	2000 2000	16057	01311	79690	32417	97870	93324	38777	34231	19684	75137	10501	56044	51498	56951	52404	47858	45311	8765	34218	29671	5125	20278	
TIME SAVING BEREFIT		77	7756		2692	326	5083	279726	3003	2187	75.37	7064	782	2707	5854	1541	2887	5810	1034	583	12.40	5446	1427	7541	4127	
VOC SAVING BENEFIT		Ś	7	394	_	745	397	74689`	360	272	707	65	875	0158	1690	1262	859	2490	3155	3856	596	5377	20.	220	986	
TOTAL	1090000	19311	7.0	346	746	346	246	346	7,6	346	246	246	746	346	740	746	246	746	240	970	7	046	240	940	046	
NTENANCE AND AD- INISTRA- ION COST		ထ္ထ	346	67(946	940	946	20460	346	946	746	346	346	246	346	346	746	7,6	7,6	Š	70	7,70	040	40	70	
INVEST- MI	1090000	18330	0	co	сэ	O	0	۵	٥	0	0	0	O	O	0	0	0	0	O	0	0	0	Ö	0	0	
YEAR	1990		Ďν	Ď,	Ñ	ñ	Ř	1997	χ̈	ř	×	⋍	≍	\asymp	Ħ	ř	ŏ	$\overline{}$	õ	Ö	m	\Box	\Box		\Box	TOTAL

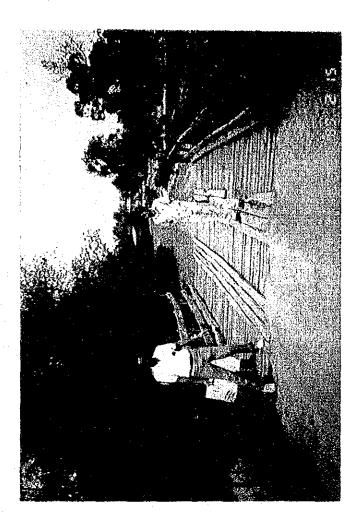
EB/EC= 1.00059 EIRR= .1559

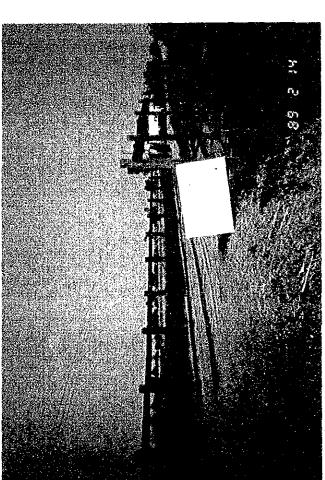
APPENDIX 7

 Present Situation Photograph of Construction Site

02.02 Huai Nong Ben

Km. 5.200
Ban Kham BongBan Non Dong Man Road
(A. Nam Phong)
Khon Kaen



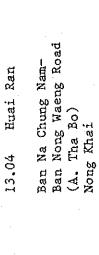


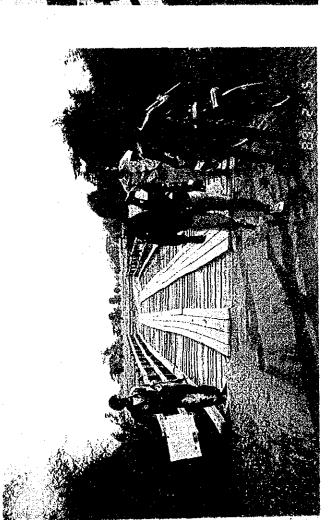
04.05 Huai Na Krathum

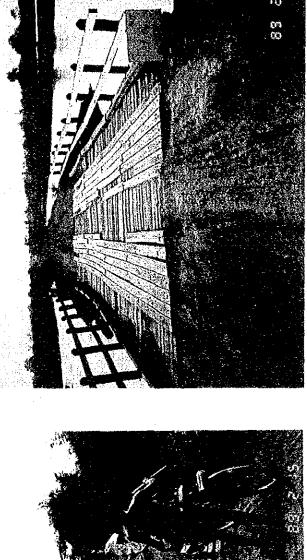
Km. 2.550
Ban Nu KholBan Un Na Road
(A. Na Wa)
Nakhon Phanom

11.03 Ban Na Kae

Ban Phon Kangpla-Ban Na 01 Road Sakon Nakhon

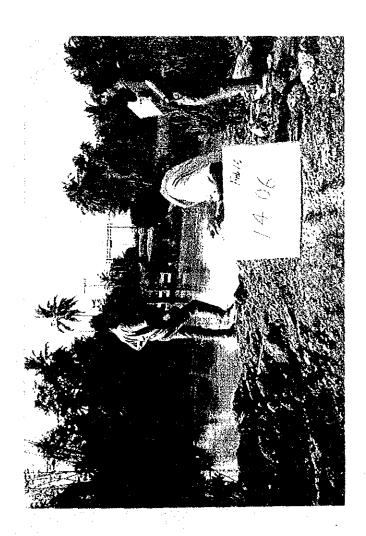






14.06 Nong Bung Mo No. 3

Ban Chiang Yun-Ban Chlang Pheng Road (A. Kut Chap) Udon Thani



03.01 Huai Khon Tha

Km. 1.100
A. Kaeng KhloBan Nong Khu Road
Chai ya Phum

05.04 Lam Ta Khong No. 1

Ban Nam Mao (Lat Boa Khao, Sikhui)





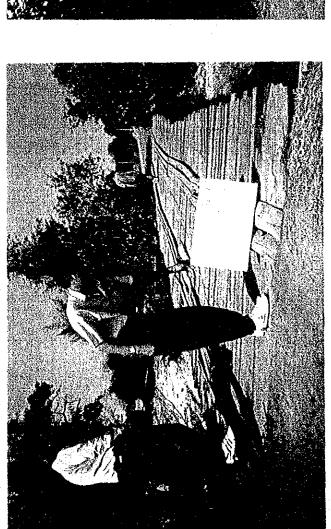


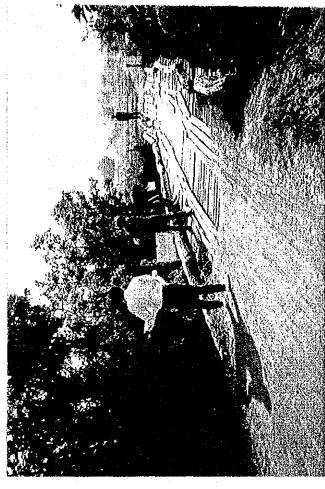
06.01 Huai Sieo

Km. 0.450
Ban Daeng-Ban
Bon Thung Road
(A. Wapipathum)
Mahasarakham

07.08 Huai Ngui

Km. 0.850 Rt. No. 212-Ban Kham Mek Road (A. Muang) Mukudahan

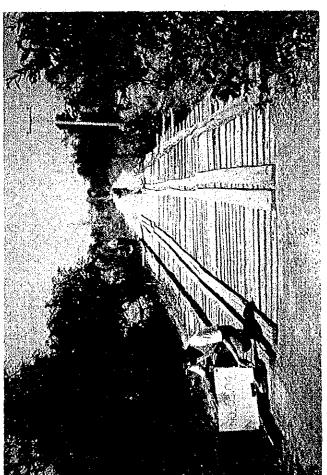




08.03 Huai Kaen

Km. 0.800
A. Kut Chum-Ban Khok
Sung Road
(A. Kut Chum)
Yasothon



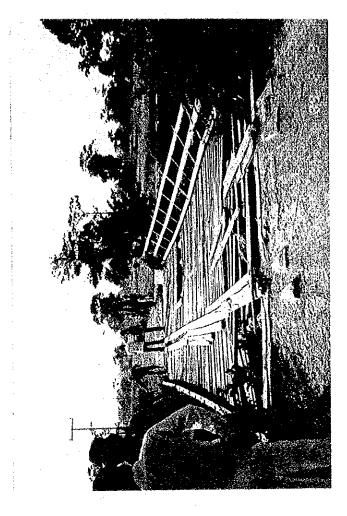


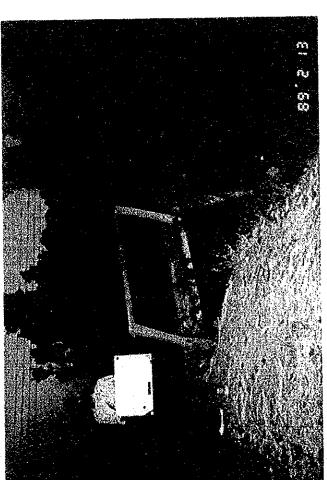
Huai Pla Pong 10.60

Km. 1.700
Ban Non Yang-Ban Sathon Road
(A. Selaphum)
Ban Nong Chok
(A. Selaphum)
Roi-et

10.01 Huai Palan Muang

Ban Sikhunhan-Ban Nong Phu Road Sisaket Sisaket





12.02 Huai Thamo

Km. 5.625

Ban Prasat BengBan Khu Tan Road
(A. Kap Choeng)
Surin

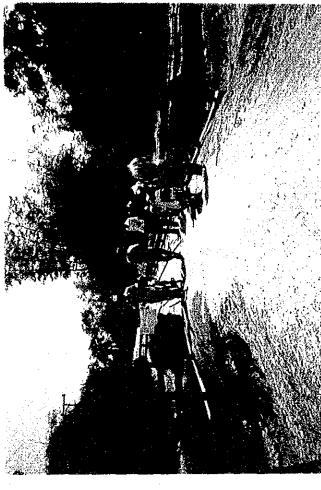
15.05 Huai Choek

Km. 0.350
Ban Nong Hai (Rt. No. 2178)
Ban Na Kae Road
(A. Samrong)
Ubon Ratchathani

15.06 Huai Kaen

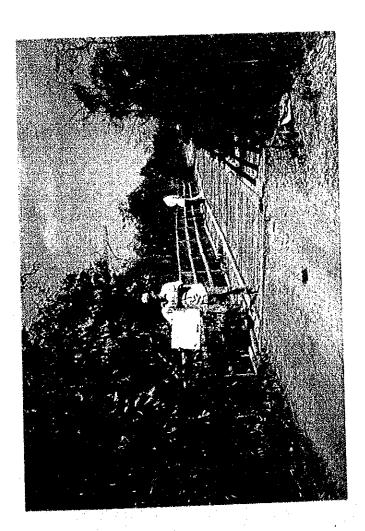
Km. 4.800
Ban Non Hai (Rt. No. 2178)
Ban Na Kae Road
(A. Samrong)
Ubon Ratchathani





15.03 Huai Sa Do

Km. 3.375
Rt. No. 2172-Ban Nong
Hai Road
(A. Phibun Mang Sahan)
Ubon Ratchathani



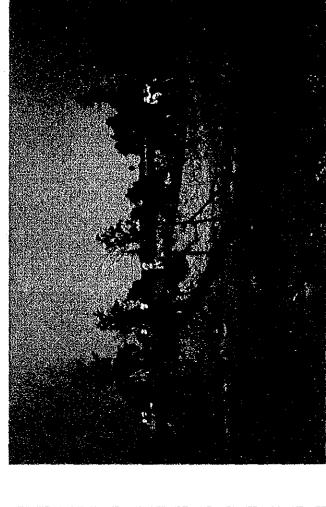
02.05 Huai Khum Mum

Km. 6.250 Ban Huai Sai-Ban Kut Chiang (A. Ubol Rattana) Khon Kaen



Km. 3.200 Ban Khok Kong-Ban Phon Road A. Muang Sakon Nakhon





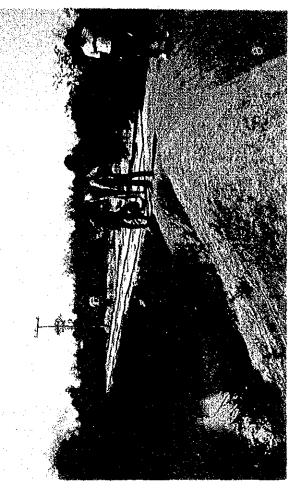
04.01 Huai Soeng No. 1

Km. 0.750
Rt. No. 2031-Ban Bo Dok
Son Road
(A. Na Kae)
Nakhon PHanom

04.02 Huai Soeng No. 2

Km. 1.150 Rt. No. 2031-Ban Bo Dok Son Road A. Na Kae Nakhon Phanom



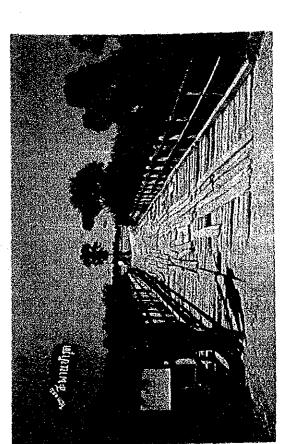


05.01 Lam Klang

Ban Dan Khon Khob Nakhon Ratchasima

14.02 Lam Nam Phai

Km. 5.650
A. Si Bun Ruang-Ban Pa
Kha Road
A. Si Bun Ruang
Udon Thani



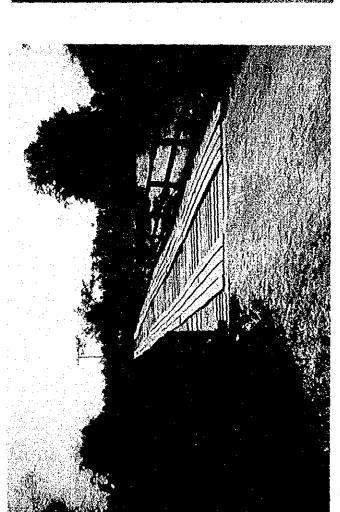


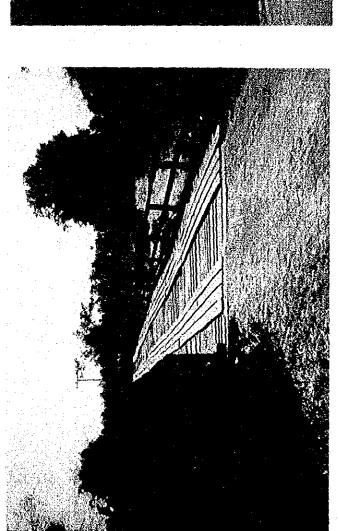
01.01 Huai Kae

Ban Kut Khlong-Ban Dan Tae Road Kalasin



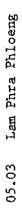
Km. 1.225
Ban Na Kae (Rt. No. 2171)
Ban Sao Lao Road
A. Det Udom
Ubon Ratchathani





05.02 Lam Nam Mum

Ban Kham Klang Nakhon Rachasima



Ban Phla Bung A. Pak Thong Chai Nakhon Rachasima

