

PART 2

TABLES AND FIGURES

Table 2-1 Properties of Deposited Soil (Ban Na San)

ANALYSIS RESULTS (Pedon NO. NS-1)
(OVEN DRY BASIS)

Horizon	Depth (cm)	Hydraulic Conductivity (cm/hr)	Particle size analysis (%)											Texture		
			USDA Grading (mm)		Sand Fraction Grading (mm)					Base Saturation (%)						
			Sand	Silt	Clay	Very Coarse	Coarse	Medium	Fine	Very Fine	Saturation	P ₂ O ₅ (ppm)	K ₂ O (ppm)			
			2-0.05	0.05-0.002	0.002>	2.0-1.0	1.0-0.5	0.5-0.25	0.25-0.1	0.1-0.05						
Ow1	0-40	Too rapid (Very high)	98.6	0.4	1.0	62.4	25.1	8.2	2.4	0.5						
Ow2	40-60	Too rapid (Very high)	91.3	4.7	4.0	13.5	13.9	26.6	22.6	14.7						
Ow3	60-80	Too rapid (Very high)	99.1	0.4	0.5	55.7	30.6	10.1	2.6	0.1						
Ow4	80-100	15 (High)	79.3	11.1	9.6	3.8	3.5	7.8	16.7	47.5						
Ab	100-110	20 (High)	85.2	8.8	6.0	16.3	27.2	23.3	13.6	4.8						

Horizon	Moisture (%)	pH (1:1)		EC ds/m	T - C (%)	T - N (%)	C/N	Exchange Capacity and Cation (me/100g)					Base Saturation (%)		K ₂ O (ppm)
		Water	KCl					Ca	Mg	K	Na	CEC	Saturation	P ₂ O ₅ (ppm)	
Ow1	0.2	5.7	4.2	0.06	0.08	0.04	2	0.7	0.2	0.1	0.1	2.4	46	13.8	31.0
Ow2	0.7	5.1	3.8	0.08	0.18	0.02	9	0.8	0.1	0.2	0.1	5.6	21	20.1	58.0
Ow3	0.3	5.5	4.1	0.05	0.04	0	-	0.6	0.1	0.1	0.1	1.5	60	15.1	23.0
Ow4	1.4	4.8	3.8	0.12	0.45	0.04	11	0.9	0.1	0.3	0.2	4.8	31	27.2	56.0
Ab	0.6	4.3	3.7	0.12	0.48	0.05	10	0.5	0.1	0.1	0.1	3.1	26	21.4	48.0

Remarks: Ow indicated new term 'Overwash'.

Table 2-3 Properties of Deposited Soil (Lan Saka)

ANALYSIS RESULTS (Pedon NO. LS-1)
(OVEN DRY BASIS)

Horizon	Depth (cm)	Hydraulic Conductivity (cm/hr)	Particle size analysis (%)										Texture	
			USDA Grading (mm)			Sand Fraction Grading (mm)								
			Sand	Silt	Clay	Very Coarse	Coarse	Medium	Fine	Very Fine				
			2-0.05	0.05-0.002	0.002>	2.0-1.0	1.0-0.5	0.5-0.25	0.25-0.1	0.1-0.05				
0w1	0-20	37 (Very high)	96.8	1.7	1.5	0	1.0	46.7	42.5	6.6			Sand	
0w2	20-48	19 (High)	92.6	4.9	2.5	0.4	0.8	21.7	60.6	9.1			Sand	
0w3	48-77	29 (Very high)	88.8	7.7	3.5	0.2	0.5	26.9	44.9	16.3			Sand	
0w4	77-100	24 (High)	94.3	5.2	0.5	0.2	0.2	21.6	56.3	16.0			Sand	

Horizon	Moisture (%)	pH (1:1)		EC ds/m	T - C (%)	T - N (%)	C/N	Exchange Capacity and Cation (me/100g)						Base Saturation (%)		K ₂ O (ppm)
		Water	KCl					Ca	Mg	K	Na	CEC	P ₂ O ₅ (ppm)	K ₂ O (ppm)		
0w1	0.3	5.8	4.4	0.14	0.17	0.01	17	1.5	0.2	0.2	0.1	4.4	45	28.0	50.0	
0w2	0.6	5.6	4.5	0.17	0.31	0.02	16	1.7	0.2	0.2	0.1	2.9	76	36.6	95.0	
0w3	0.9	5.5	4.2	0.11	0.32	0.03	11	1.5	0.2	0.1	0.2	4.2	48	32.4	32.0	
0w4	0.5	4.5	4.0	0.35	0.12	0.02	6	0.8	0.1	0.1	0.1	2.8	39	31.2	44.0	

Remarks: 0w indicated new term 'Overwash'.

Table 2-5 Land Classification for Sediment Deposited Area (Ban Na San)

Class	Horizon	Depth (cm)	Structure	Gravel (%)	Mottling	Soil texture
I	Deposit	0 - 25	Massive	Non	Non	Fine sand
	Buried A	16 - 39	Blocky	Non	Non	Silty loam
II	Deposit	25 - 50	Massive	5 - 10	Non	Fine sand
	Buried A	17 - 20	Blocky	Non	Non	Sandy clay loam
III	Deposit	50 - 100	Massive	Non	Non	Fine sand
	Buried A	8 - 27	Massive	Non	Present/Non	Sandy loam, Fine sand, Silty loam
IV	Deposit	100-150	Massive	Non	Non	Fine sand
	Buried A	8 - 27	Massive	Non	Present/Non	Sandy loam, Fine sand, Silty loam
V	Deposit	150<	Massive	Non	Non	Fine sand
	Buried A	Not survey				

Table 2-6 Soil/Soil Layer Improvement Method (Ban Na San)

Class	Land Use	Soil Improvement Method	Soil Layer Improvement Method
I	Orchard	- Input of compost or barnyard manure	- Soil mixing with lower original soil
		- Add chemical fertilizer	- Soil dressing on farm land
		- Grow soil cover crops	
II	Upland crop/ grassland	- Input of compost or barnyard manure	- Soil mixing with lower original soil
		- Add chemical fertilizer	- Soil dressing on farm land
		- Mulch organic material residuum	
III	Orchard	- Input of compost or barnyard manure	- Remove gravel
		- Add chemical fertilizer	- Soil dressing on soil surface
		- Grow soil cover crops	
IV	Upland crop/ grassland	- Input of compost or barnyard manure	- Remove gravel
		- Add chemical fertilizer	- Soil dressing on farm land
		- Mulch organic material residuum	
V	Orchard	- Input of compost or barnyard manure	- Remove gravel
		- Add chemical fertilizer	- Soil dressing on soil surface
		- Grow soil cover crops	
VI	Upland crop/ grassland	- Input of compost or barnyard manure	- Remove gravel
		- Add chemical fertilizer	- Soil dressing on farm land
		- Mulch organic material residuum	
VII	Orchard	- Input of compost or barnyard manure	- Remove gravel
		- Add chemical fertilizer	- Soil dressing on soil surface
		- Grow soil cover crops	
VIII	Upland crop/ grassland	- Input of compost or barnyard manure	- Remove gravel
		- Add chemical fertilizer	- Mix deposited soil with new clayey soil, and soil dressing on soil surface
		- Mulch organic material residuum	

Table 2-7 Soil/Soil Layer Improvement Area (Ban Na San)

Land Use	Class	Improvement Method	Depth of Improved Soil (cm)	Improved Area (rai)	
				Case 1	Case 2
Orchard	I	- Input of organic and inorganic materials	20	35.1	35.1
		- Soil dressing on soil surface	30	35.1	35.1
	II	- Input of organic and inorganic materials	20	79.8	79.8
		- Soil dressing on soil surface	30	79.8	79.8
	III	- Input of organic and inorganic materials	20	43.2	43.2
		- Remove gravel	50	6.4	6.4
		- Soil dressing on soil surface	30	43.2	43.2
	IV	- Input of organic and inorganic materials	20	21.8	21.8
		- Remove gravel	50	-	-
		- Soil dressing on soil surface	30	21.8	21.8
	V	- Input of organic and inorganic materials	20	277.9	231.5
		- Remove gravel	50	175.2	128.8
		- Mix deposited soil with new clayey soil, and soil dressing on soil surface	50	277.9	231.5
	Upland crop/ grassland	I	- Input of organic and inorganic materials	20	-
- Soil mixing with lower original soil			30	-	-
II		- Input of organic and inorganic materials	20	-	-
		- Remove gravel	25	-	-
		- Soil dressing on farm land	10	-	-
III		- Input of organic and inorganic materials	20	-	-
		- Remove gravel	25	-	-
		- Soil dressing on farm land	10	-	-
IV		- Input of organic and inorganic materials	20	-	-
		- Remove gravel	25	-	-
		- Soil dressing on farm land	10	-	-
V		- Input of organic and inorganic materials	20	-	-
		- Remove gravel	25	-	-
		- Soil dressing on farm land	10	-	-

Table 2-9 Land Classification for Sediment Deposited Area (Lan Saka)

Class	Horizon	Depth (cm)	Structure	Gravel (%)	Mottling	Soil texture
I	Deposit	0 - 25	Massive	Non	Non	Fine sand
	Buried A	16 - 39	Blocky	Non	Non	Silty loam
II	Deposit	25 - 50	Massive	5 - 10	Non	Fine sand
	Buried A	17 - 20	Blocky	Non	Non	Sandy clay loam
III	Deposit	50 - 100	Massive	Non	Non	Fine sand
	Buried A	8 - 27	Massive	Non	Present/Non	Sandy loam, Fine sand, Silty loam
IV	Deposit	100-150	Massive	Non	Non	Fine sand
	Buried A	8 - 27	Massive	Non	Present/Non	Sandy loam, Fine sand, Silty loam
V	Deposit	150<	Massive	Non	Non	Fine sand
	Buried A	Not survey				

Table 2-10 Soil/Soil Layer Improvement Method (Lan Saka)

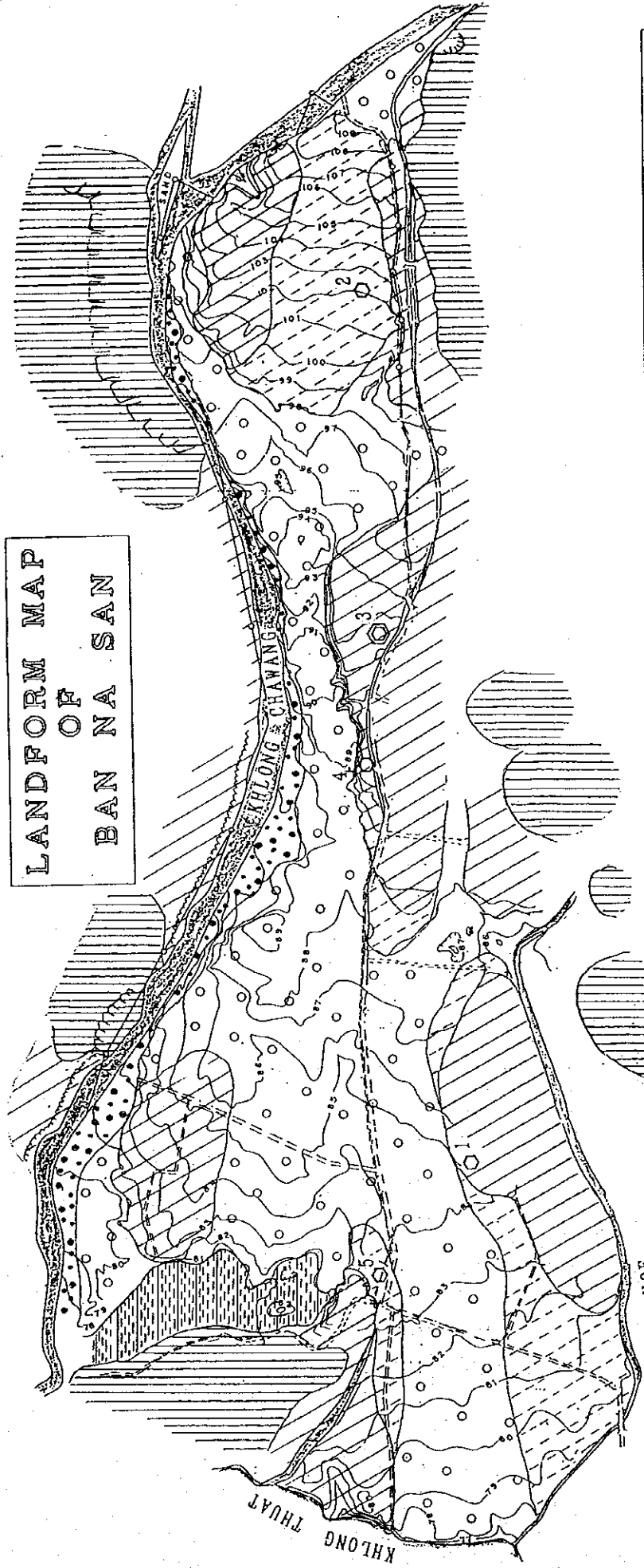
Class	Land Use	Soil Improvement Method	Soil Layer Improvement Method
I	Orchard	- Input of compost or barnyard manure	- Soil mixing with lower original soil
		- Add chemical fertilizer	
		- Grow soil cover crops	
Upland crop	- Input of compost or barnyard manure	- Soil mixing with lower original soil	
	- Add chemical fertilizer		
	- Mulch organic material residuum		
Orchard	- Input of compost or barnyard manure	- Soil mixing with lower original soil	
	- Add chemical fertilizer		
	- Grow soil cover crops		
Upland crop	- Input of compost or barnyard manure	- Soil dressing on farm land	
	- Add chemical fertilizer		
	- Mulch organic material residuum		
Orchard	- Input of compost or barnyard manure	- Construction of raising bed	
	- Add chemical fertilizer		
	- Grow soil cover crops		
Upland crop	- Input of compost or barnyard manure	- Soil dressing on farm land	
	- Add chemical fertilizer		
	- Mulch organic material residuum		
Orchard	- Input of compost or barnyard manure	- Construction of raising bed	
	- Add chemical fertilizer		
	- Grow soil cover crops		
Upland crop	- Input of compost or barnyard manure	- Soil dressing on farm land	
	- Add chemical fertilizer		
	- Mulch organic material residuum		
Orchard	- Input of compost or barnyard manure	- Construction of raising bed	
	- Add chemical fertilizer		
	- Grow soil cover crops		
Upland crop	- Input of compost or barnyard manure	- Soil dressing on farm land	
	- Add chemical fertilizer		
	- Mulch organic material residuum		
Orchard	- Input of compost or barnyard manure	- Construction of raising bed	
	- Add chemical fertilizer		
	- Grow soil cover crops		
Upland crop	- Input of compost or barnyard manure	- Soil dressing on farm land	
	- Add chemical fertilizer		
	- Mulch organic material residuum		

Table 2-11 Soil/Soil Layer Improvement Area (Lan Saka)

Land Use	Class	Improvement Method	Depth of Improved Soil (cm)	Improved Area(rai)			
				Case 1	Case 2	Case 3	Case 4
Orchard	I	- Input of organic and inorganic materials	2 0	49.29	49.29	52.42	52.42
		- Soil mixing with lower original soil	5 0	31.83	31.83	31.83	31.83
	II	- Input of organic and inorganic materials	2 0	19.16	19.16	15.42	15.42
		- Soil mixing with lower original soil	5 0	19.16	19.16	15.42	15.42
	III	- Input of organic and inorganic materials	2 0	87.51	49.36	66.06	27.91
		- Construction of rasing bed	5 0	16.60	13.59	16.60	13.59
	IV	- Soil dressing on soil surface	1 0	70.91	35.77	49.46	14.32
		- Input of organic and inorganic materials	2 0	11.76	6.13	5.63	-
		- Construction of rasing bed	5 0	0.74	-	0.74	-
		- Soil dressing on soil surface	1 0	11.02	6.13	4.89	-
	V	- Input of organic and inorganic materials	2 0	148.10	69.65	130.06	51.61
		- Construction of rasing bed	5 0	27.77	38.04	27.77	38.04
- Soil dressing on soil surface		1 0	120.33	31.61	102.29	13.57	
Upland crop (Intercrop)	I	- Input of organic and inorganic materials	2 0	-	-	-	-
		- Soil mixing with lower original soil	3 0	-	-	-	-
	II	- Input of organic and inorganic materials	2 0	-	-	4.54	4.54
		- Soil dressing on farm land	1 0	-	-	-	-
	III	- Input of organic and inorganic materials	2 0	5.43	43.58	31.61	69.76
		- Soil dressing on farm land	1 0	-	-	-	-
	IV	- Input of organic and inorganic materials	2 0	-	5.63	8.43	14.06
		- Soil dressing on farm land	1 0	-	-	-	-
	V	- Input of organic and inorganic materials	2 0	2.72	103.52	37.93	138.73
		- Soil dressing on farm land	1 0	-	-	-	-
	I	- Input of organic and inorganic materials	2 0	24.65	24.65	26.07	26.07
		- Soil mixing with lower original soil	3 0	-	-	-	-
II	- Input of organic and inorganic materials	2 0	9.59	9.59	7.72	7.72	
	- Soil dressing on farm land	1 0	-	-	-	-	
III	- Input of organic and inorganic materials	2 0	35.46	17.89	24.73	7.16	
	- Soil dressing on farm land	1 0	-	-	-	-	
IV	- Input of organic and inorganic materials	2 0	5.52	3.07	2.45	-	
	- Soil dressing on farm land	1 0	-	-	-	-	
V	- Input of organic and inorganic materials	2 0	60.17	15.70	51.15	6.68	
	- Soil dressing on farm land	1 0	-	-	-	-	

Remarks: Improved area is excepted from swamp and reclaimed land.

**LANDFORM MAP
OF
BAN NA SAN**



	PRESENT RIVER CHANNEL		WELL
	SWAMPY PLACE		PUMPING TEST WELL
	FLUVIAL PLAIN (deposit of 1988 disaster is more than 100cm thick)		
	BURIED RIVER TERRACE (deposit of 1988 disaster is less than 50cm thick)		
	RIVER TERRACE (Pleistocene deposit)		
	HILL and MOUNTAINS (Palaeozoic rock)		

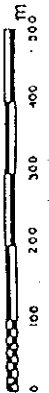
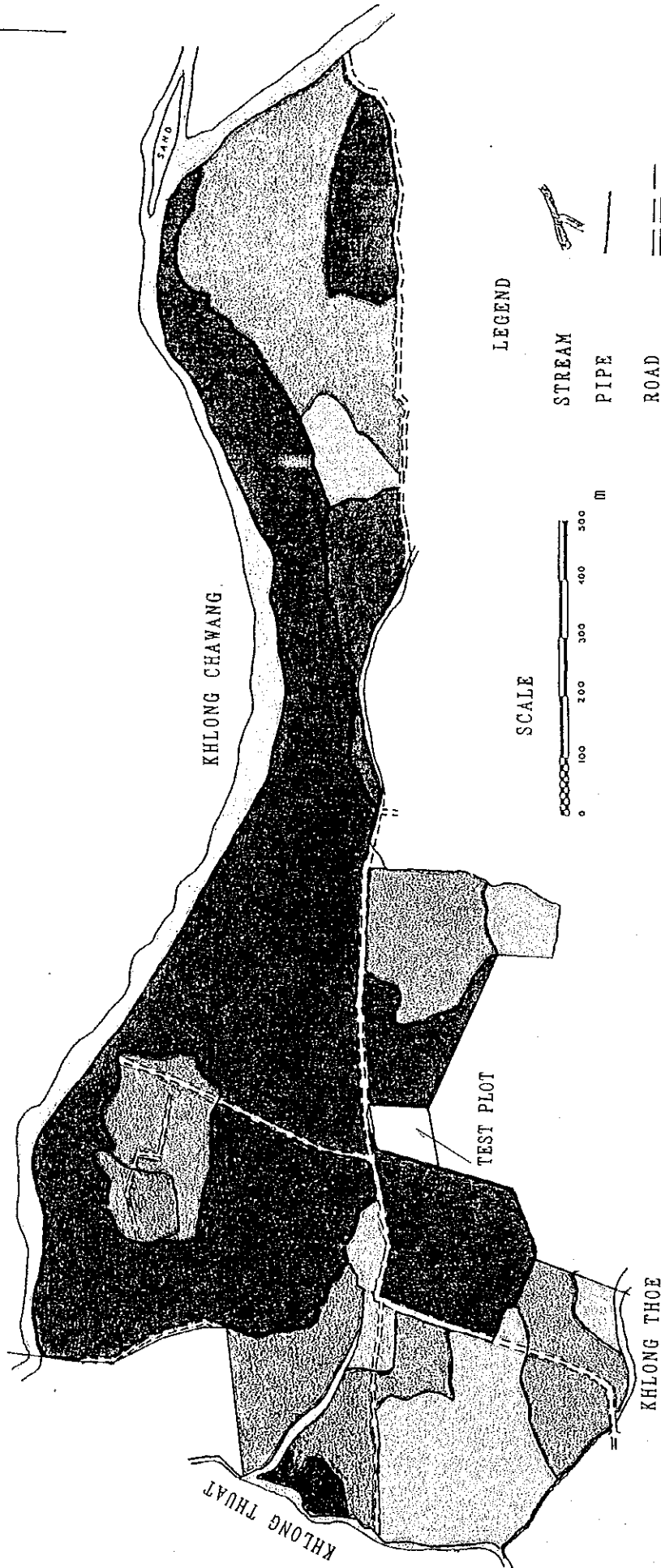
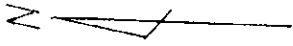


Figure 2-1 Landform Map of Ban Na San



Unit of Deposit Depth (cm)

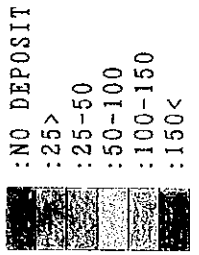
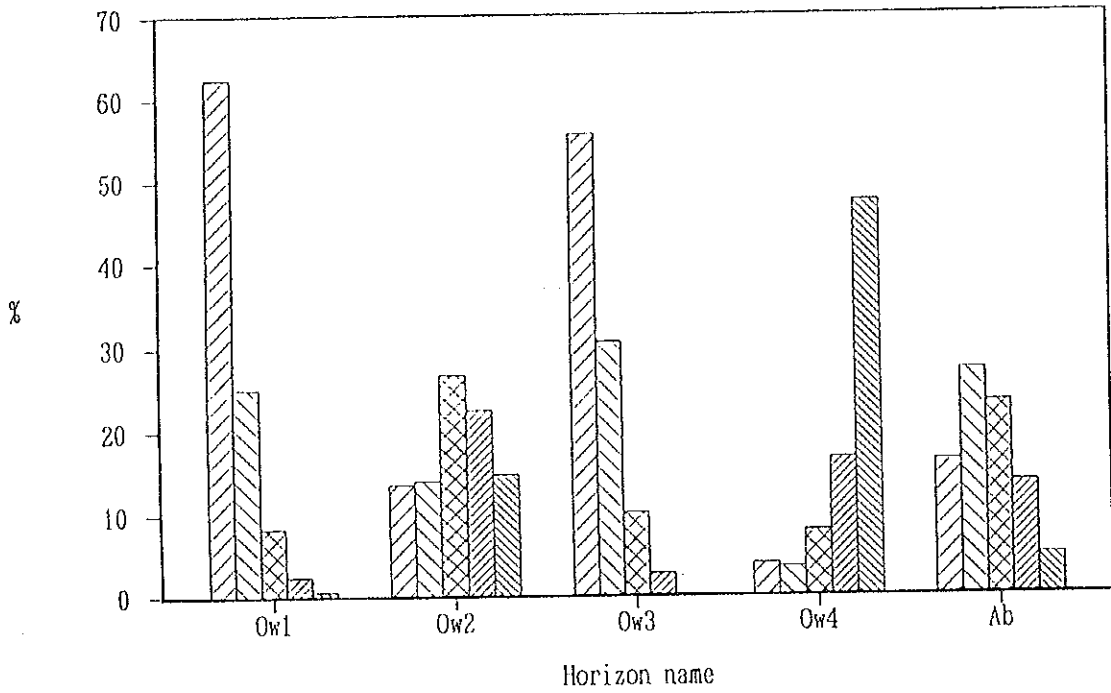


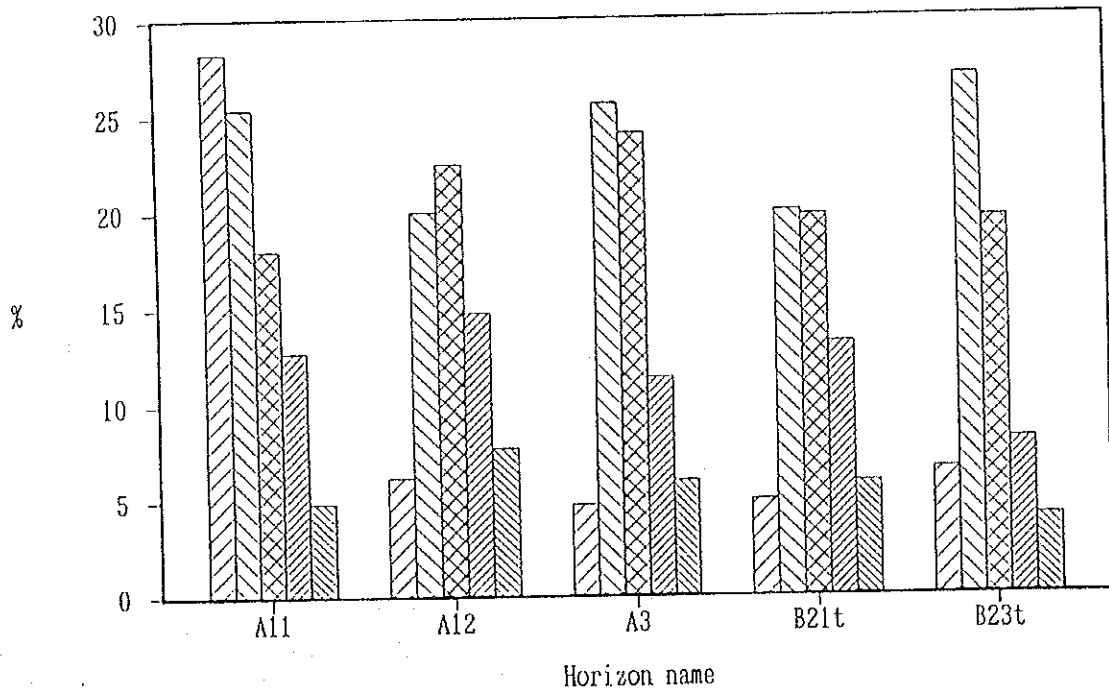
Figure 2-2 Distribution Map of Sediment Deposited Soil (Ban Na San)

Figure 2-3 Particle Size Analysis of Sand Fraction Grading (Lan Saka)

Pedon NO. NS-1

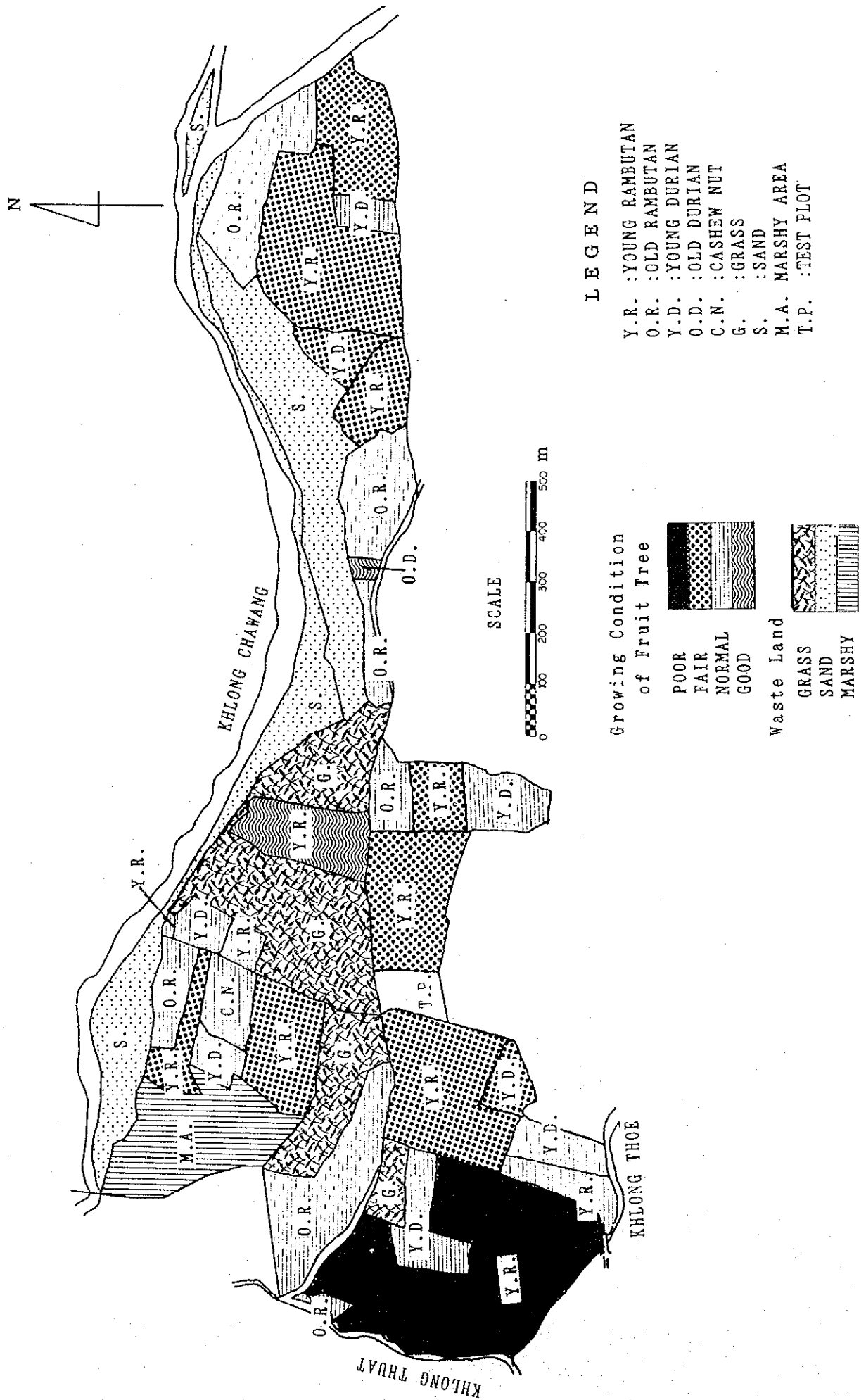


Pedon NO. NS-2



- Very Coarse (2.0-1.0mm)
- Coarse (1.0-0.5mm)
- Medium (0.5-0.25mm)
- Fine (0.25-0.1mm)
- Very Fine (0.1-0.05mm)

Figure 2-4 Present Land Use Classification (Ban Na San)



THE AGRICULTURAL LAND REHABILITATION AND
 CONSERVATION PROJECT
 AMPHOE BAN NASAN
 SURAT THANI PROVINCE

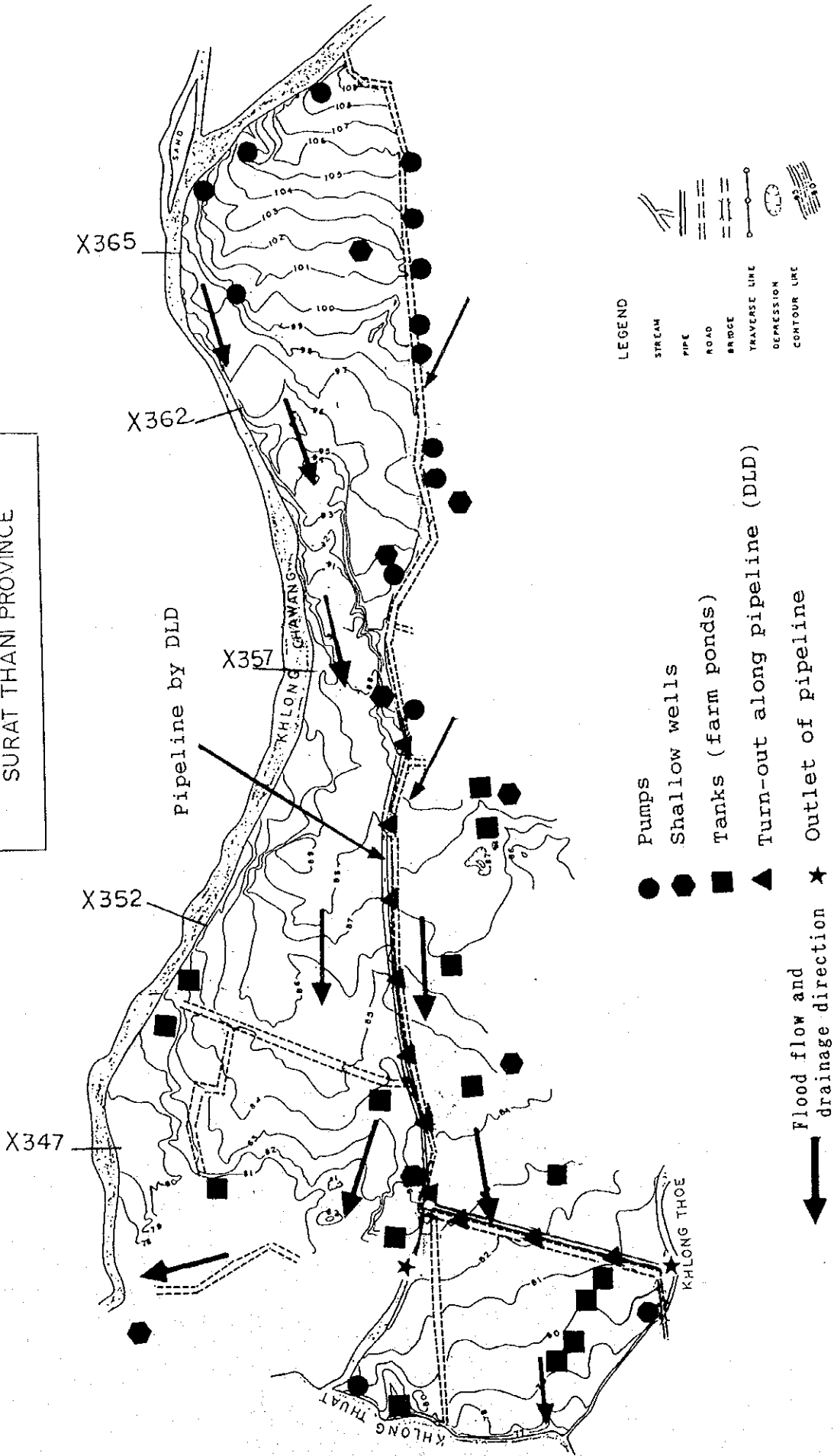
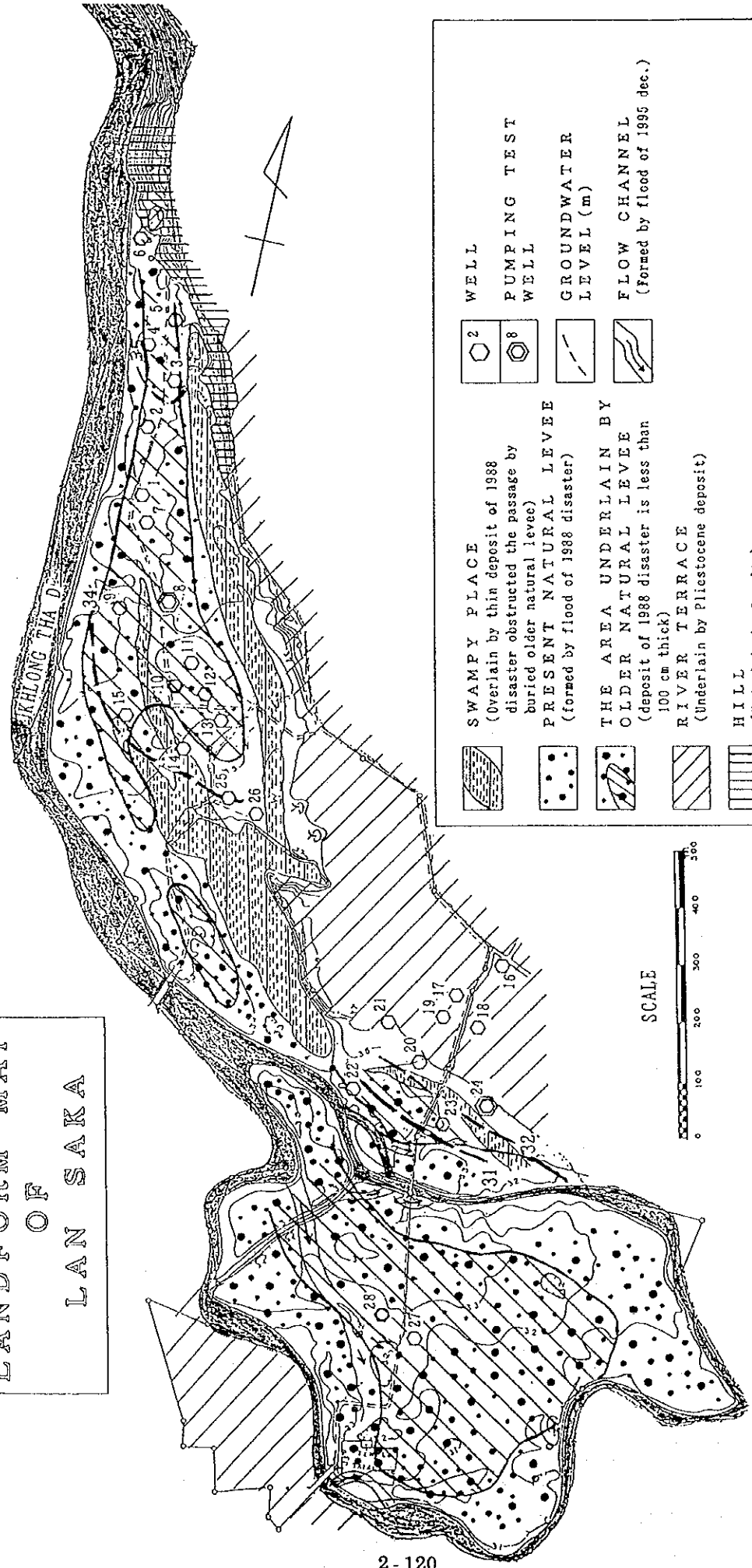


Figure 2-5 Existing Irrigation and Drainage Condition (Ban Na San)

LANDFORM MAP
OF
LAN SAKA

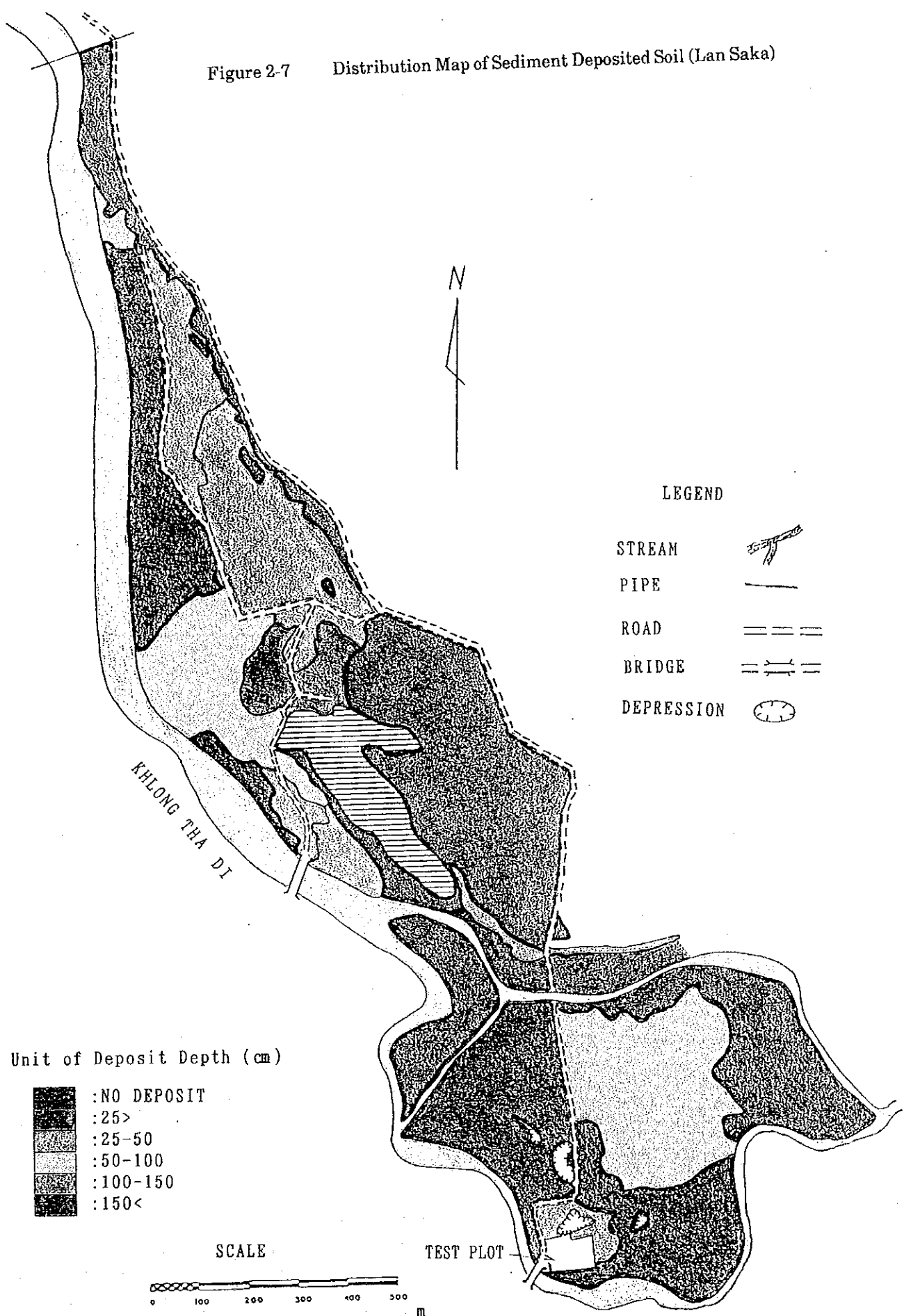


- | | | | |
|--|--|--|--|
| | SWAMPY PLACE
(Overlain by thin deposit of 1988 disaster obstructed the passage by buried older natural levee) | | WELL |
| | PRESENT NATURAL LEVEE
(formed by flood of 1988 disaster) | | PUMPING TEST WELL |
| | THE AREA UNDERLAIN BY OLDER NATURAL LEVEE
(deposit of 1988 disaster is less than 100 cm thick) | | GROUNDWATER LEVEL (m) |
| | RIVER TERRACE
(Underlain by Pliocene deposit) | | FLOW CHANNEL
(formed by flood of 1995 dec.) |
| | HILL
(Underlain by Granite) | | |




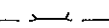



Figure 2-6 Landform Map of Lan Saka







Figure 2-7 Distribution Map of Sediment Deposited Soil (Lan Saka)



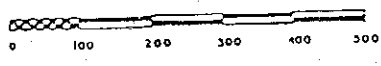
LEGEND

- STREAM 
- PIPE 
- ROAD 
- BRIDGE 
- DEPRESSION 

Unit of Deposit Depth (cm)

-  : NO DEPOSIT
-  : 25>
-  : 25-50
-  : 50-100
-  : 100-150
-  : 150<

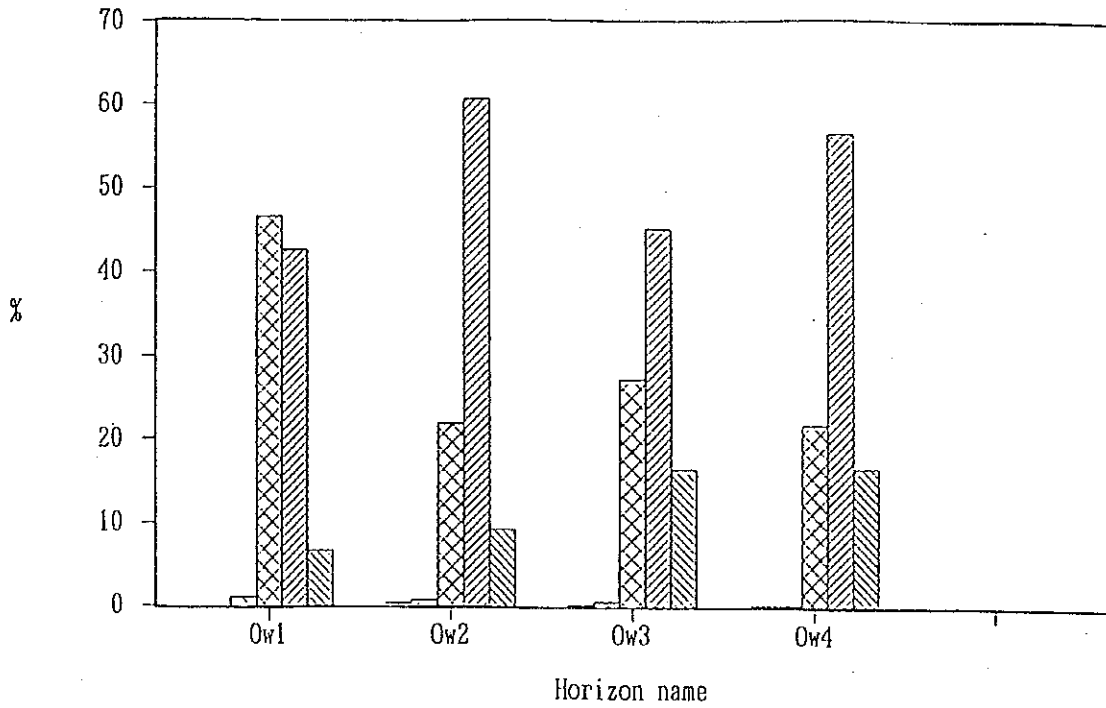
SCALE



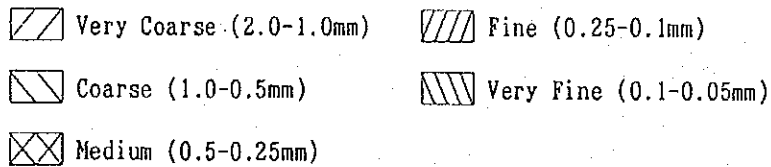
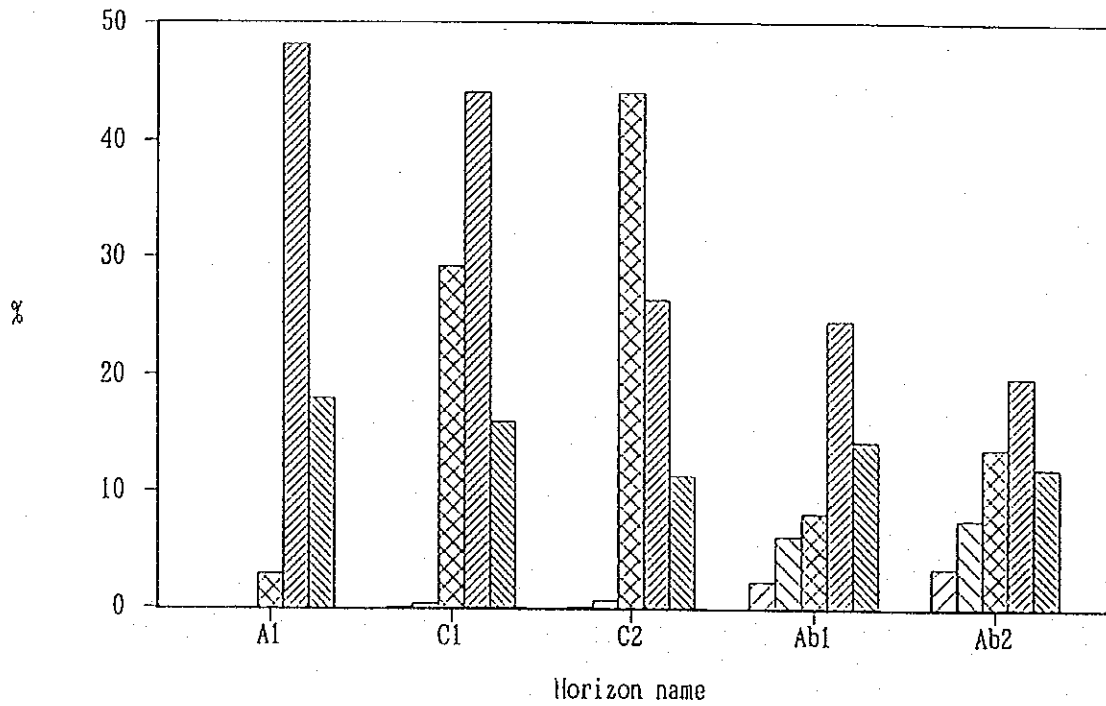
TEST PLOT

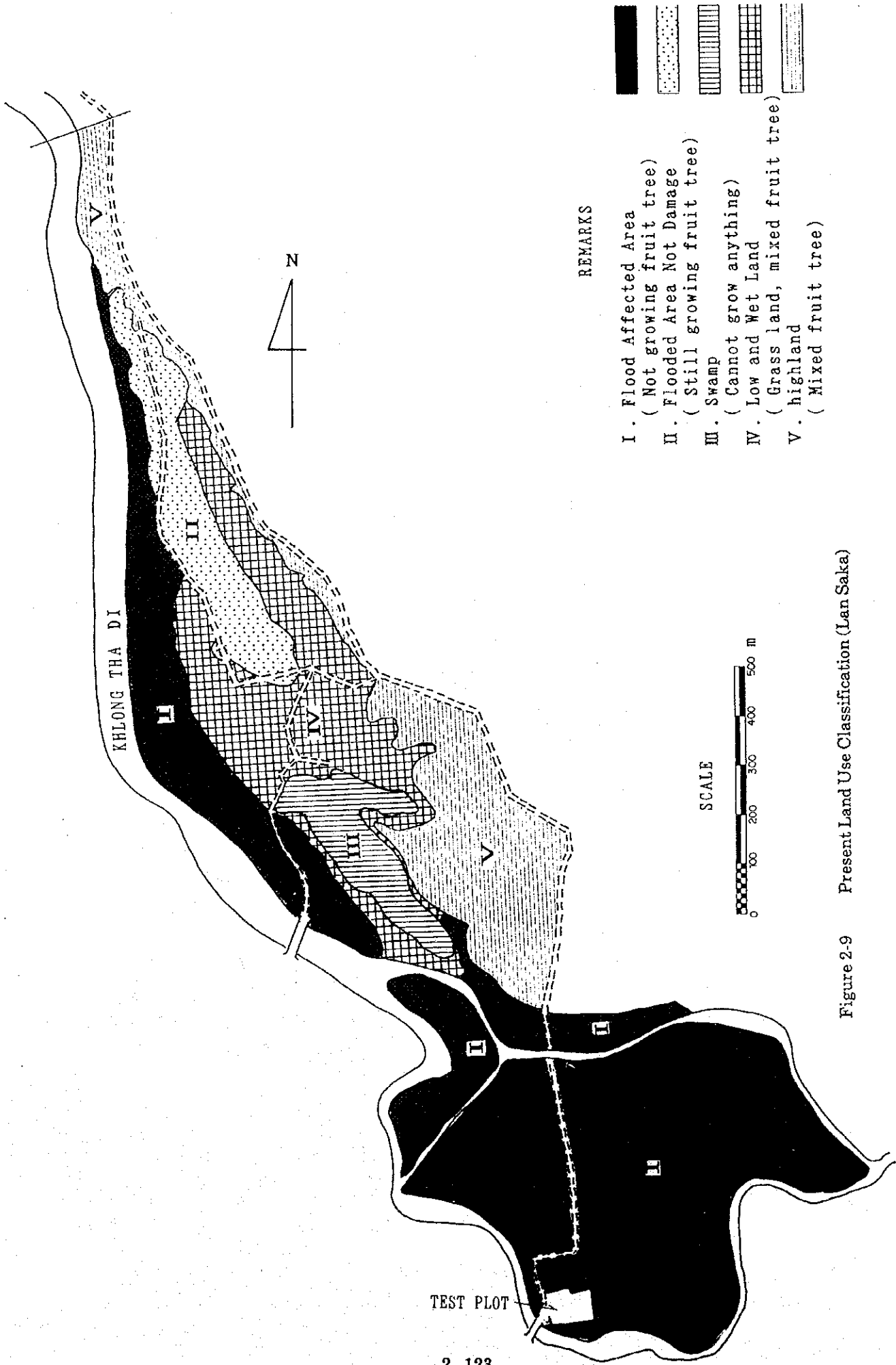
Figure 2-8 Particle Size Analysis of Sand Fraction Grading (Lan Saka)

Pedon NO. LS-1



Pedon NO. LS-2





REMARKS

- I. Flood Affected Area
(Not growing fruit tree)
- II. Flooded Area Not Damage
(Still growing fruit tree)
- III. Swamp
(Cannot grow anything)
- IV. Low and Wet Land
(Grass land, mixed fruit tree)
- V. highland
(Mixed fruit tree)

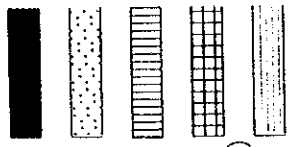


Figure 2-9 Present Land Use Classification (Lan Saka)

TEST PLOT

THE AGRICULTURAL LAND REHABILITATION AND
 CONSERVATION PROJECT
 AMPHOE LAN SAKA
 NAKHON SI THAMMARAT PROVINCE

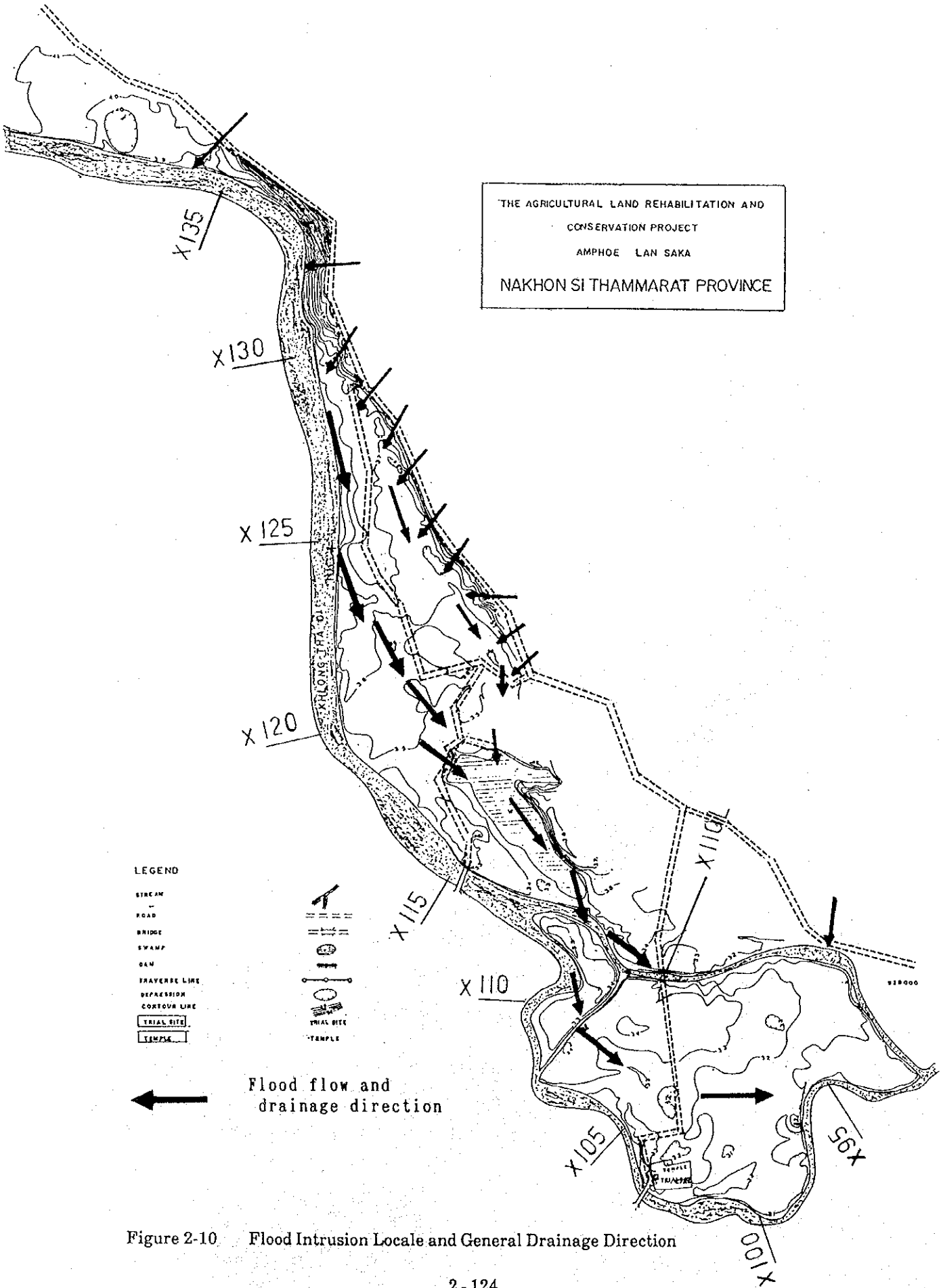


Figure 2-10 Flood Intrusion Locale and General Drainage Direction

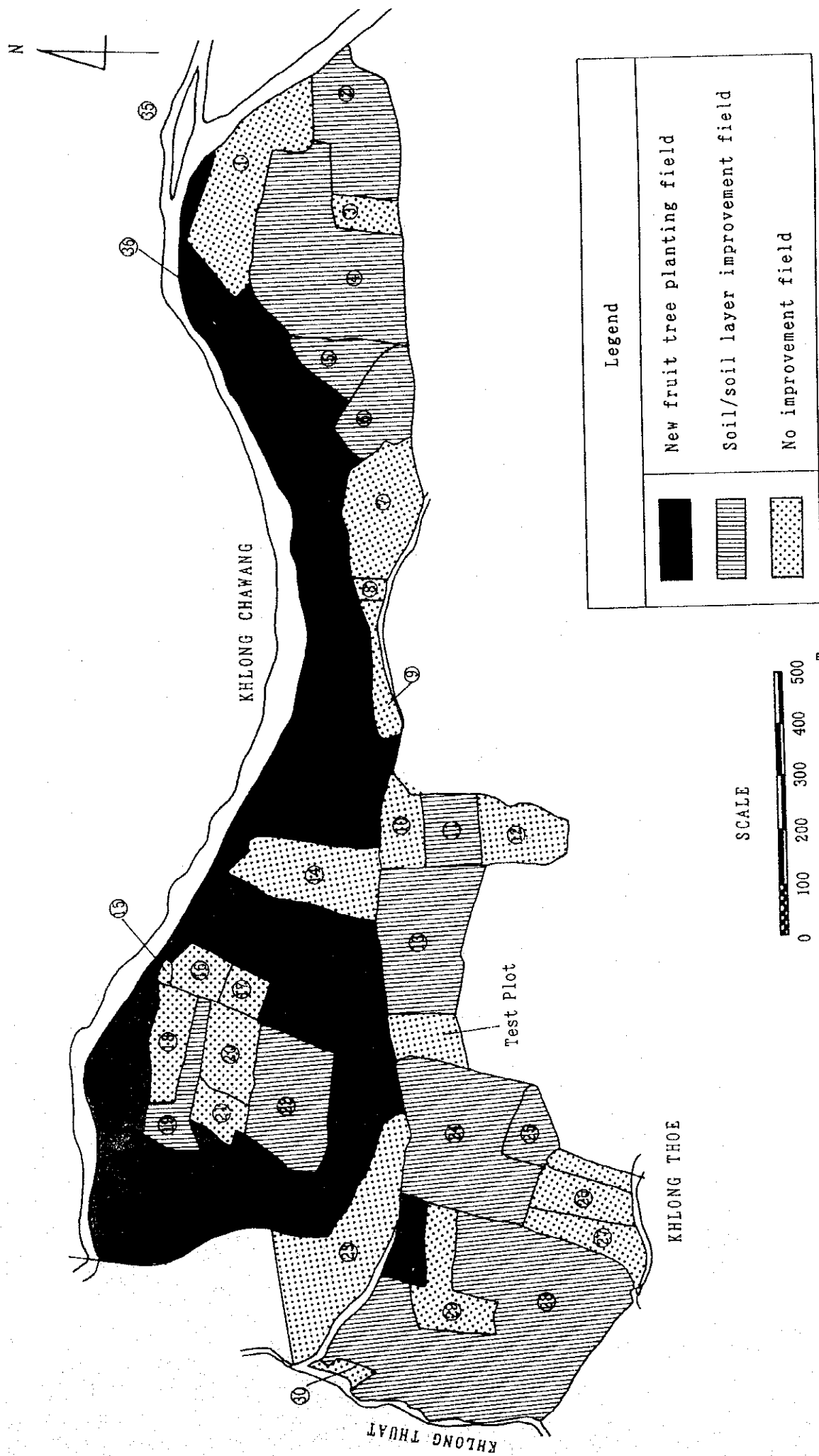


Figure 2-11 Land Use Plan in Ban Na San (Case-1)

BAN NA SAN FEASIBILITY STUDY AREA

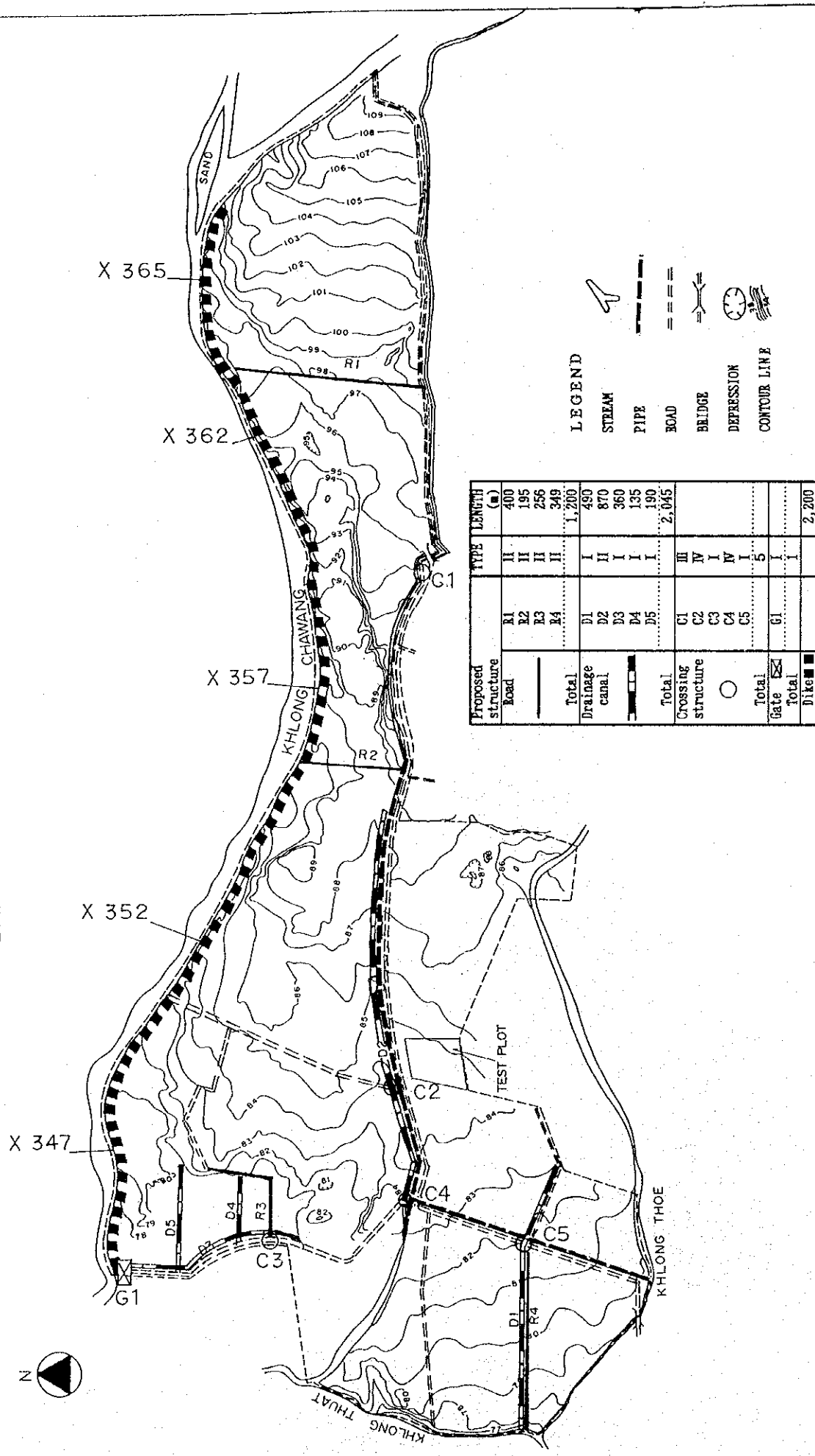
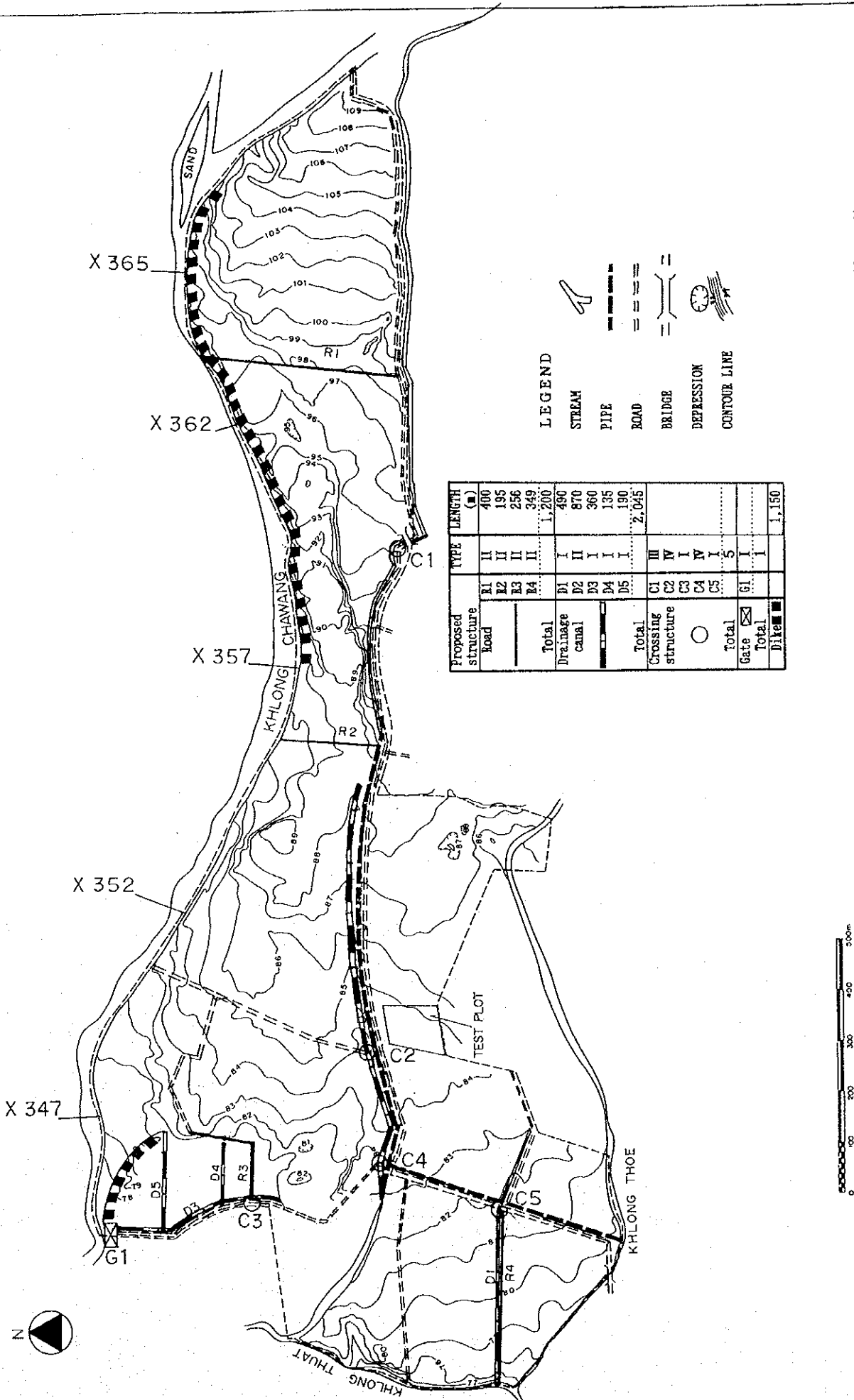


Figure 2-12 Proposed Location for Dike and Rural Infrastructures (Case-1)

BAN NA SAN FEASIBILITY STUDY AREA



Proposed structure	TYPE	LENGTH (m)
Road	R1	400
	R2	195
	R3	256
	R4	349
Total		1,200
Drainage canal	D1	490
	D2	870
	D3	360
	D4	135
	D5	190
Total		2,045
Crossing structure	C1	
	C2	
	C3	
	C4	
	C5	
Total		
Gate	G1	
Total		
Dike		1,150

LEGEND

- STREAM
- PIPE
- ROAD
- BRIDGE
- DEPRESSION
- CONTOUR LINE

Figure 2-13 Proposed Location for Dike and Rural Infrastructures (Case-2)

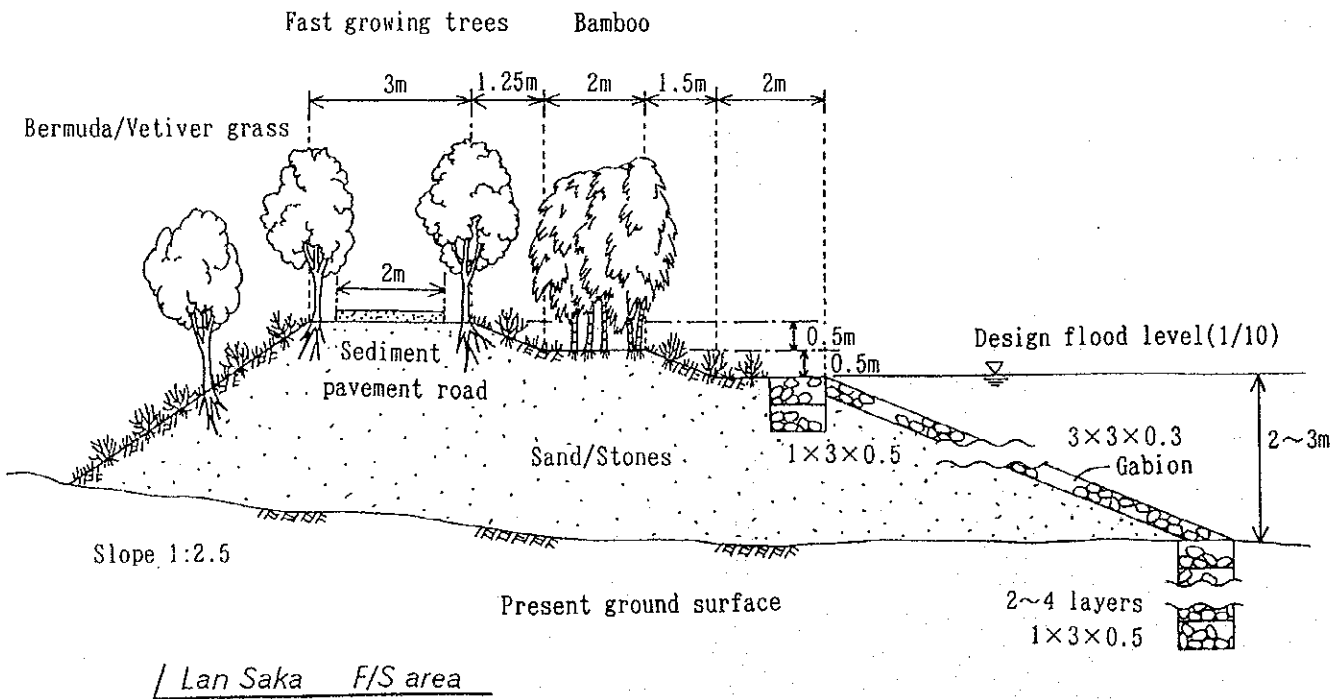
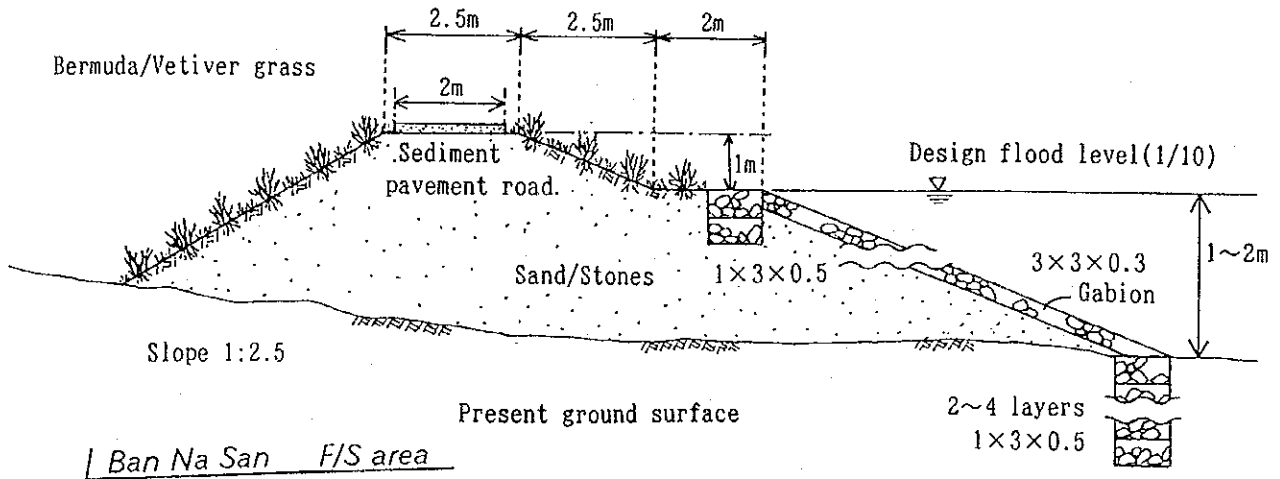
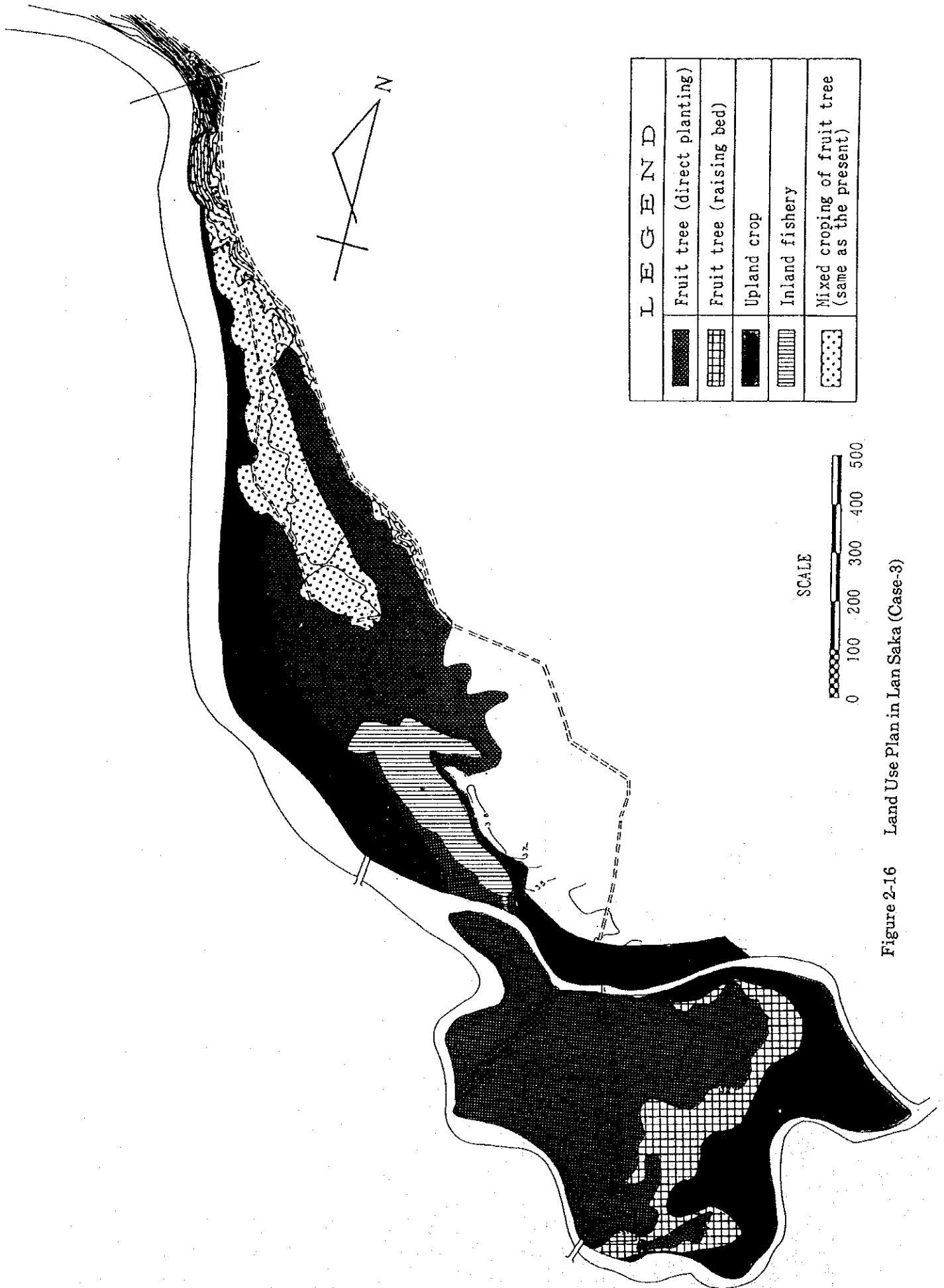







Figure 2-14 Typical Cross-Section of Dike in Ban Na San and Lan Saka

Figure 2-15 Implementation Schedule (Ban Na San)

Item	Year	0	1	2	3	4	5	6	7
• Fund Arrangement		————							
• Project Coordinating Works		————	————						
- Land Expropriation		-----	-----						
- Project Coordination		-----	-----						
- Farmer's Organization		-----	-----						
• Detailed Design			————						
• Tendering			————						
• Construction Works				————	————				
- Drainage Improvement				————	————				
- Irrigation Development					————				
- Farmland Improvement					————				
- Soil/soil layer Improvement					————				
- Farm road Improvement					————				
• Project Administration			————	————					
• Supporting Service Project			————	————					
• Operation/Maintenance									----->



L E G E N D	
	Fruit tree (direct planting)
	Fruit tree (raising bed)
	Upland crop
	Inland fishery
	Mixed cropping of fruit tree (same as the present)

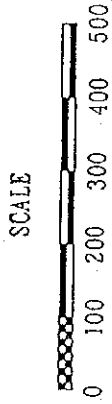
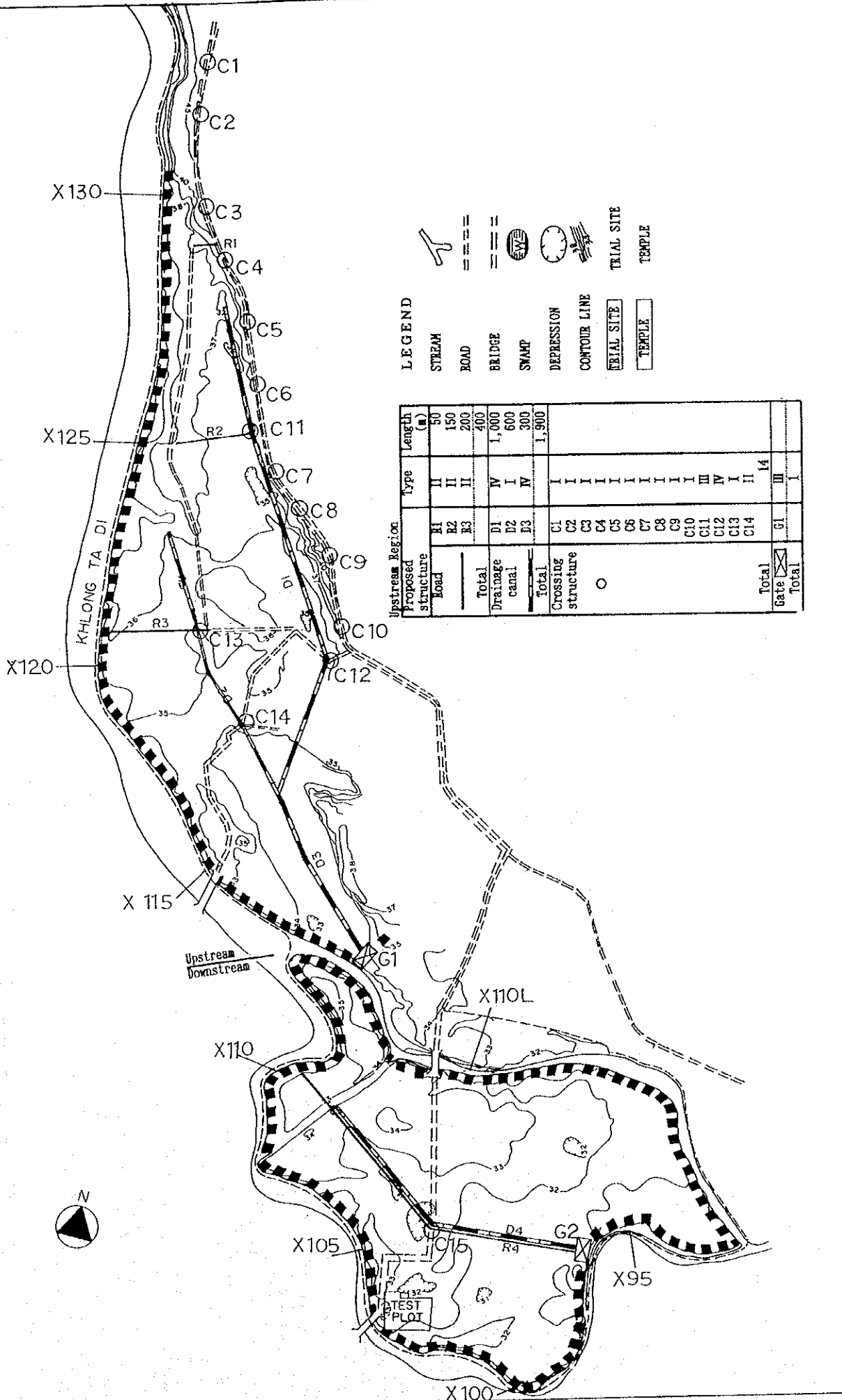


Figure 2-16 Land Use Plan in Lan Saka (Case-3)

LAN SAKA FEASIBILITY STUDY AREA



LEGEND

- STREAM
- ROAD
- BRIDGE
- SWAMP
- DEPRESSION
- CONTOUR LINE
- TRIAL SITE
- TEMPLE

Proposed structure	Type	Length (m)
R1	II	50
R2	II	150
R3	II	200
R4	II	400
D1	IV	1,000
D2	I	600
D3	IV	300
D4	IV	1,900
Total		
C1	I	
C2	I	
C3	I	
C4	I	
C5	I	
C6	I	
C7	I	
C8	I	
C9	I	
C10	I	
C11	III	
C12	IV	
C13	I	
C14	II	
Total		14
Gate	III	
Total		

Figure 2-17 Proposed Location for Dike and Rural Infrastructures (Full Construction)

LAN SAKA FEASIBILITY STUDY AREA

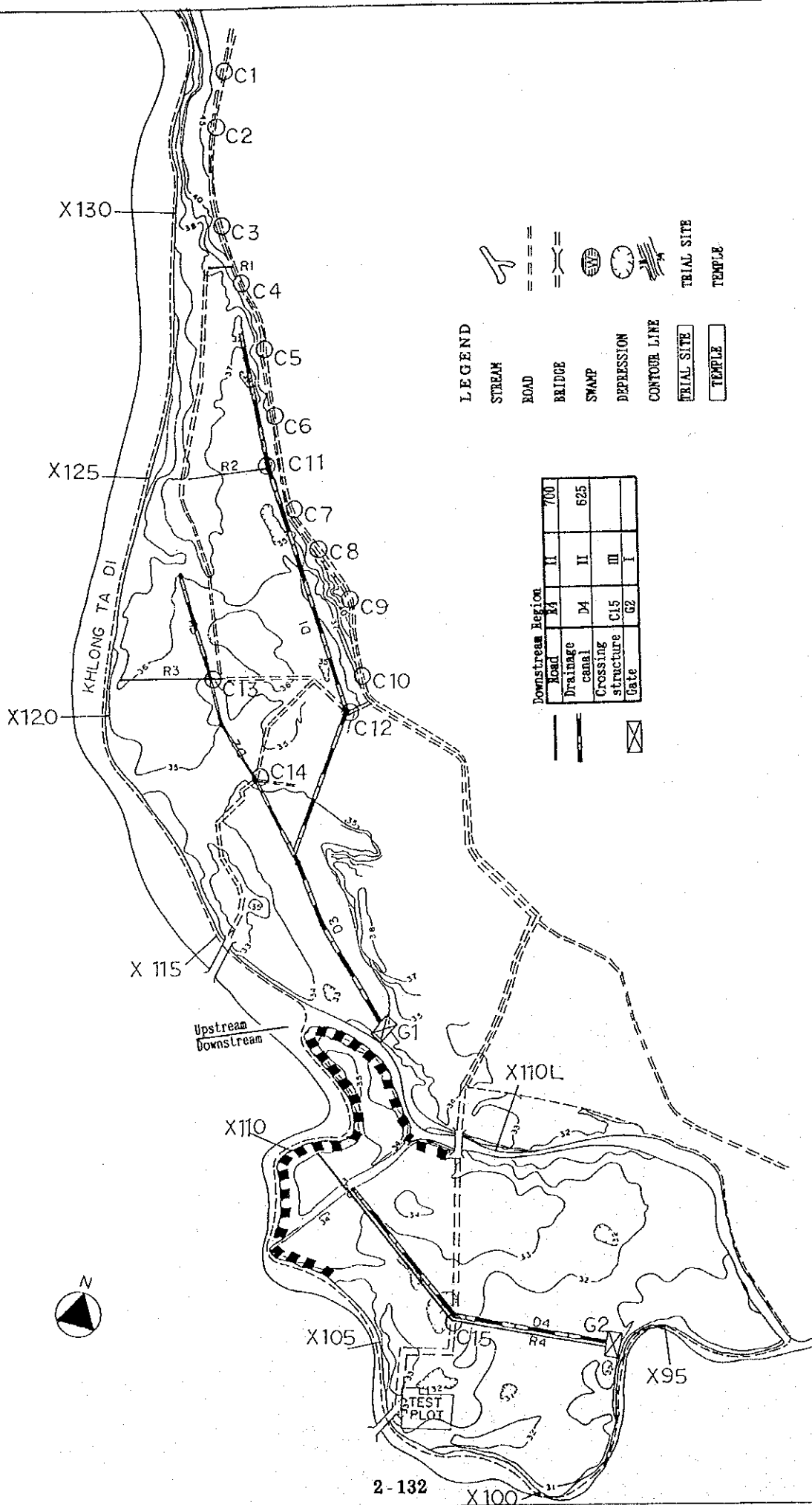


Figure 2-18 Proposed Location for Dike and Rural Infrastructures (Partial Construction)

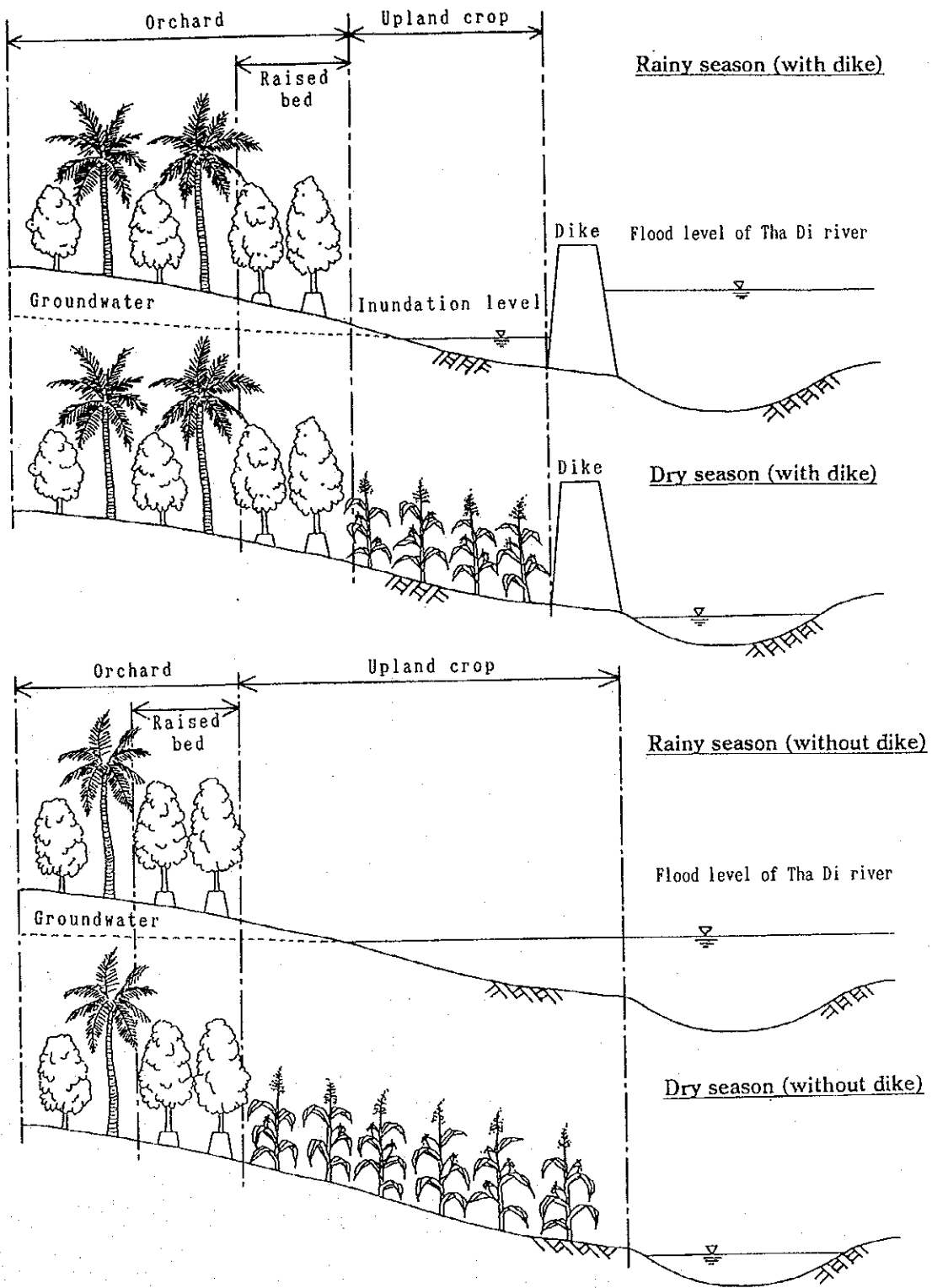
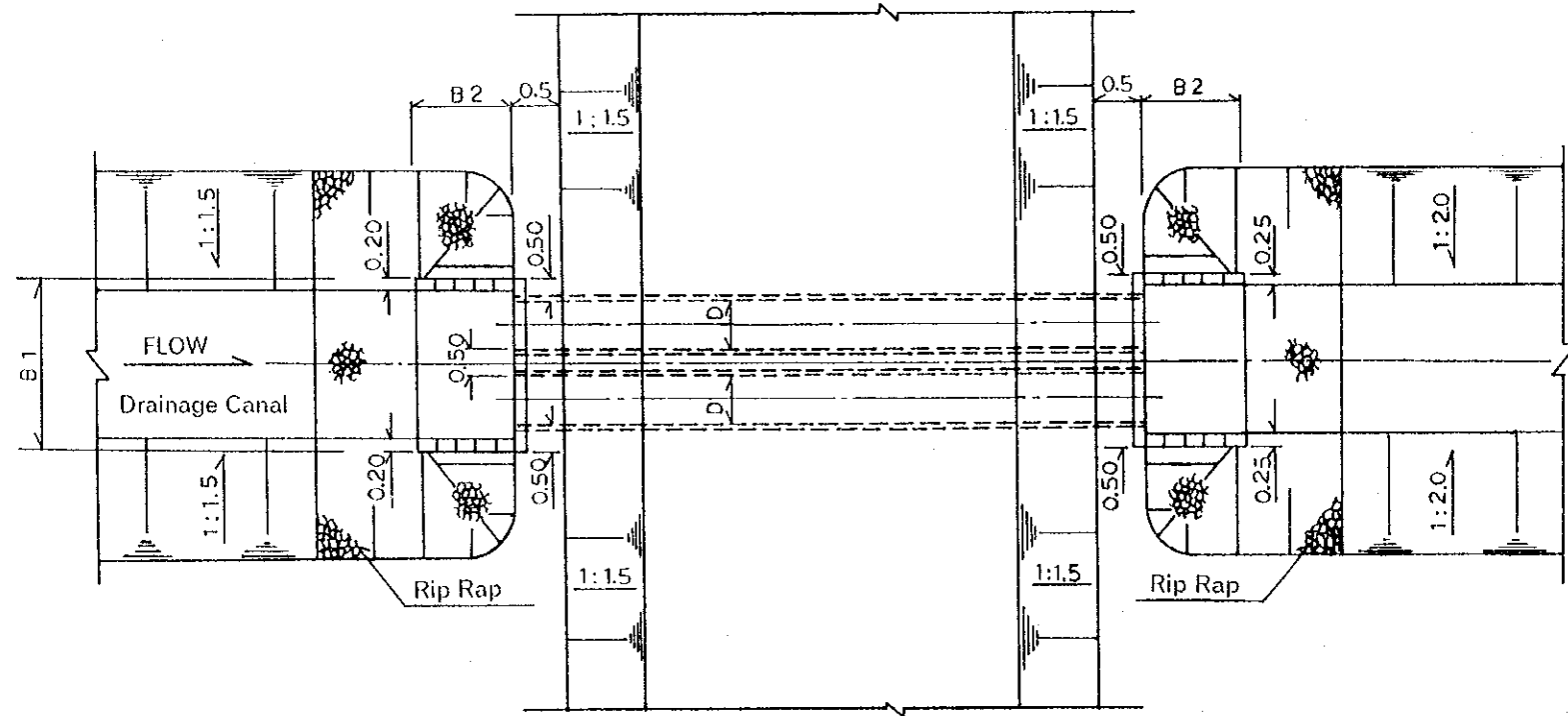


Figure 2-19 Schematic Map for Land Use Planning (Lan Saka)

Figure 2-20 Implementation Schedule (Lan Saka)

Year	0	1	2	3	4	5	6	7
Item								
· Fund Arrangement	————							
· Project Coordinating Works	————							
- Land Expropriation	- - - -							
- Project Coordination	- - - -							
- Farmer's Organization	- - - -							
· Detailed Design	————	————						
· Tendering		————						
· Construction Works			————	————	————			
- Drainage Improvement			————	————	————			
- Irrigation Development			————	————	————			
- Farmland Improvement			————	————	————			
- Soil/soil layer Improvement			————	————	————			
- Farm road Improvement			————	————	————			
· Project Administration		————	————	————	————	————	————	————
· Supporting Service Project		————	————	————	————	————	————	————
· Operation/Maintenance							- - - -	↑

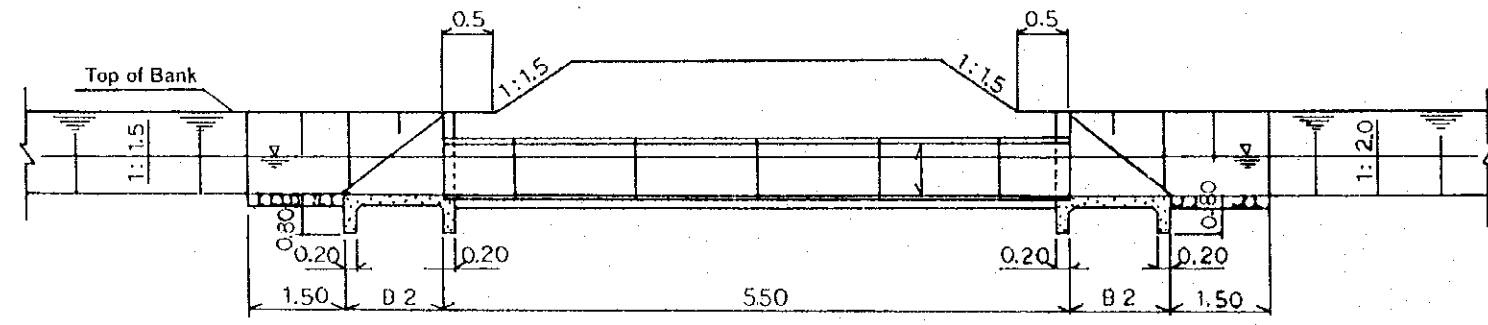
DRAWINGS



PLAN

Crossing Structure

Type	B1(m)	B2(m)	Pipe	
			D(mm)	Number
I	0.70	1.00	600	1
II	1.40	1.50	800	1
III	1.60	2.00	1000	1
IV	3.10	2.00	1000	2



PROFILE

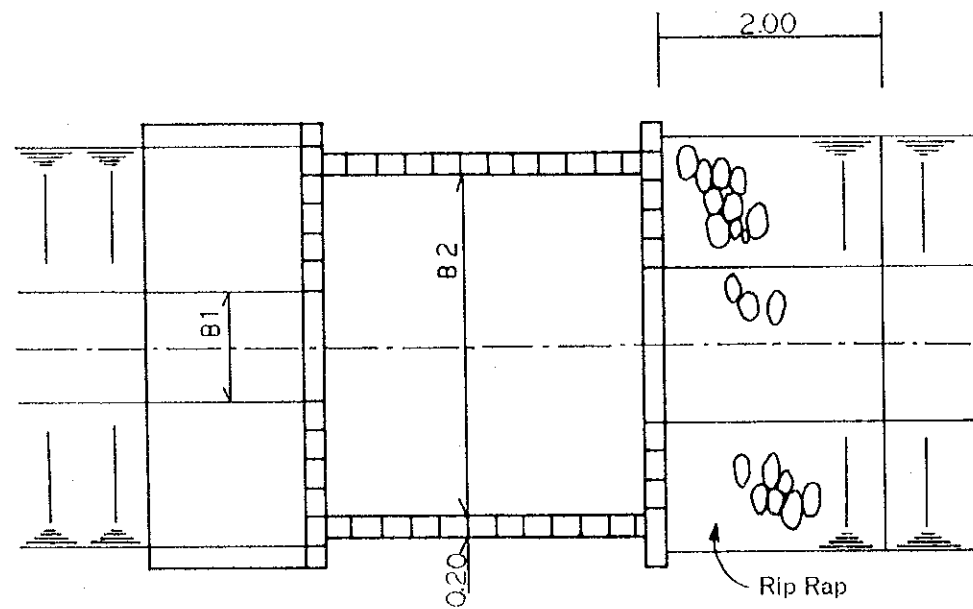
DRAIN CULVERT
Not to Scale

THE STUDY ON THE AGRICULTURAL LAND
REHABILITATION AND CONSERVATION PROJECT
IN SURAT THANI AND NAKHON SI THAMMARAT
PROVINCES

ROAD CROSSING STRUCTURE

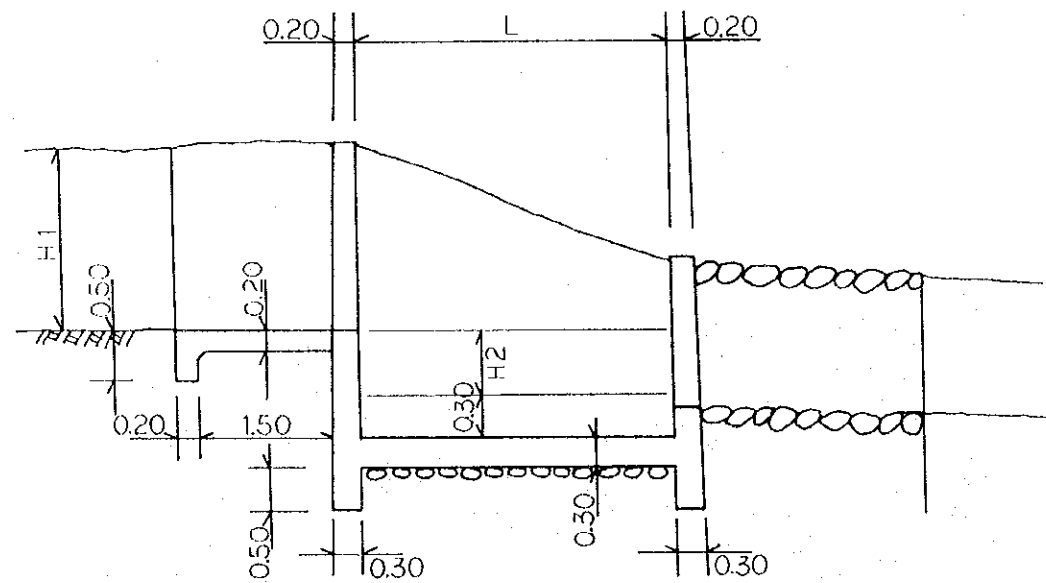
DRAWING NO. 1 DATE

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Drop Structure

Type	B1(m)	B2(m)	H1(m)	H2(m)
I	0.7	2.2	0.7	0.7
II	1.0	3.1	1.0	1.0
III	1.5	5.1	1.5	1.5



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PROVINCES

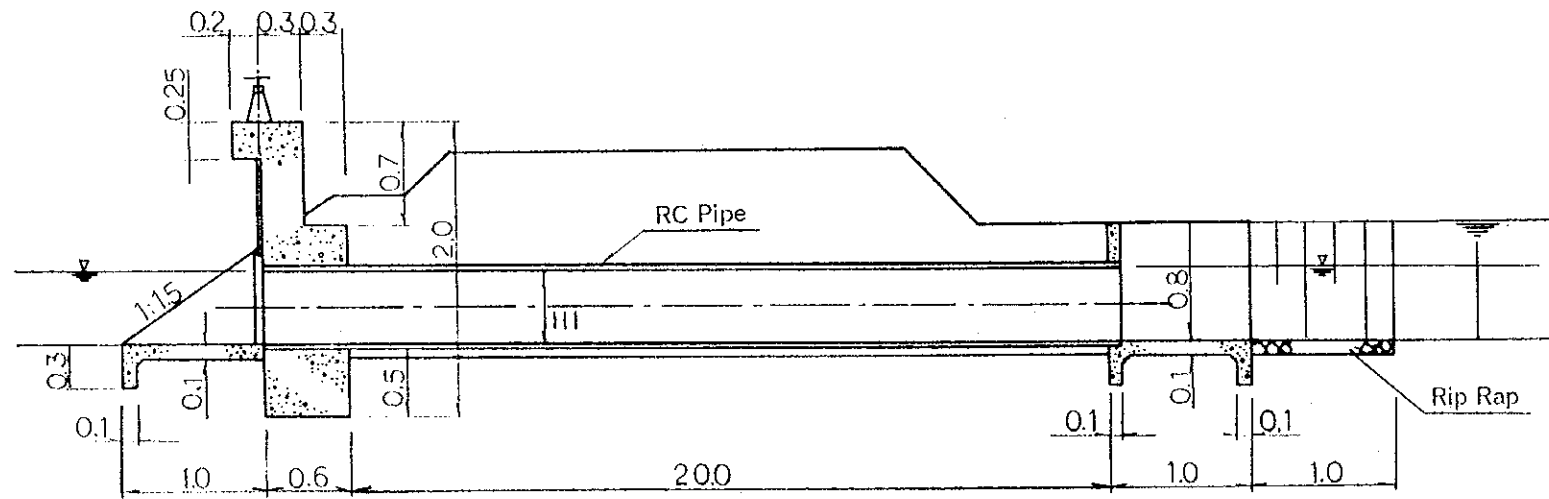
DROP STRUCTURE

DRAWING NO.

2

DATE

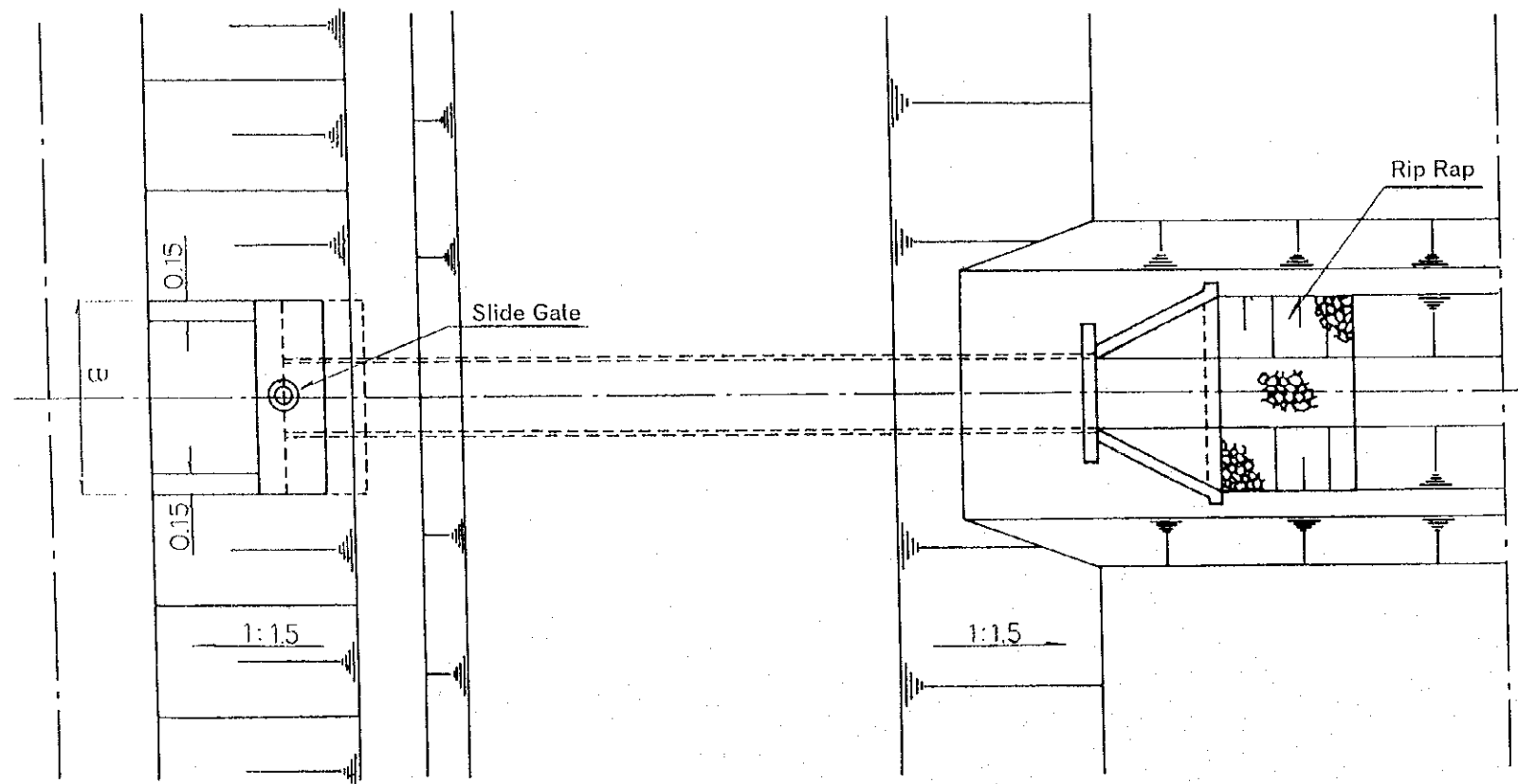
JAPAN INTERNATIONAL COOPERATION AGENCY



PROFILE

Drainage Gate

Type	H1(mm)	B(mm)
I	500	1,500
II	800	2,000
III	1,000	2,500



PLAN

River

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PROVINCES

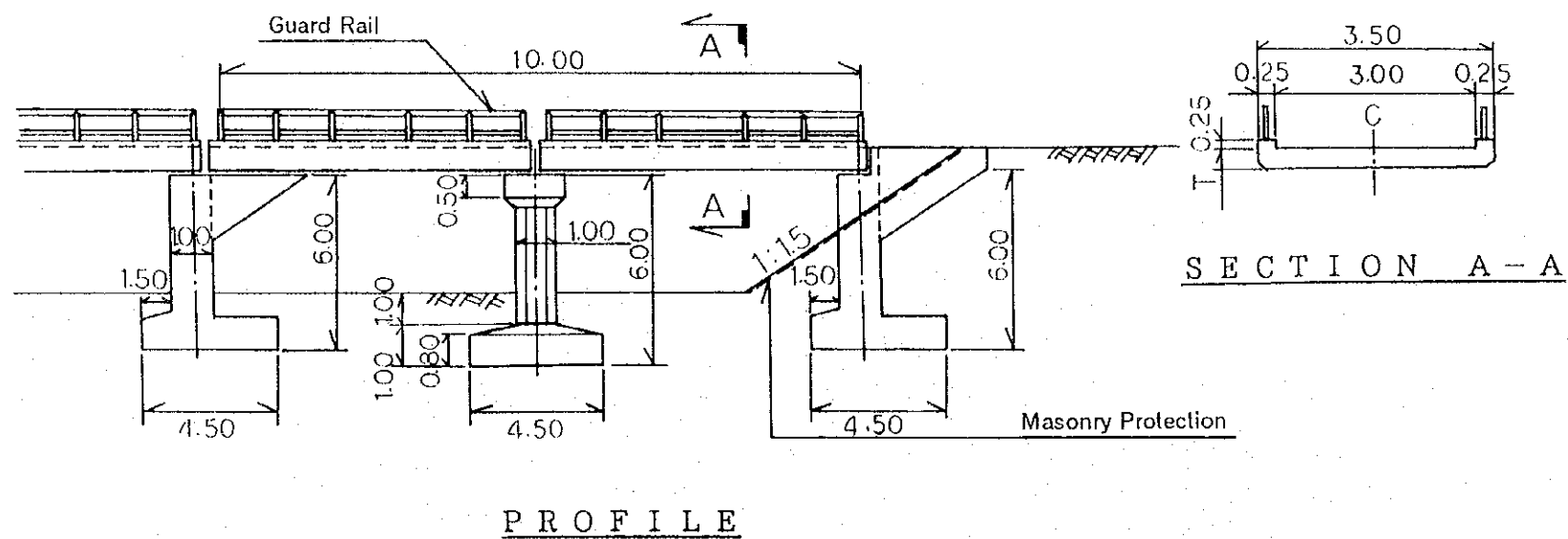
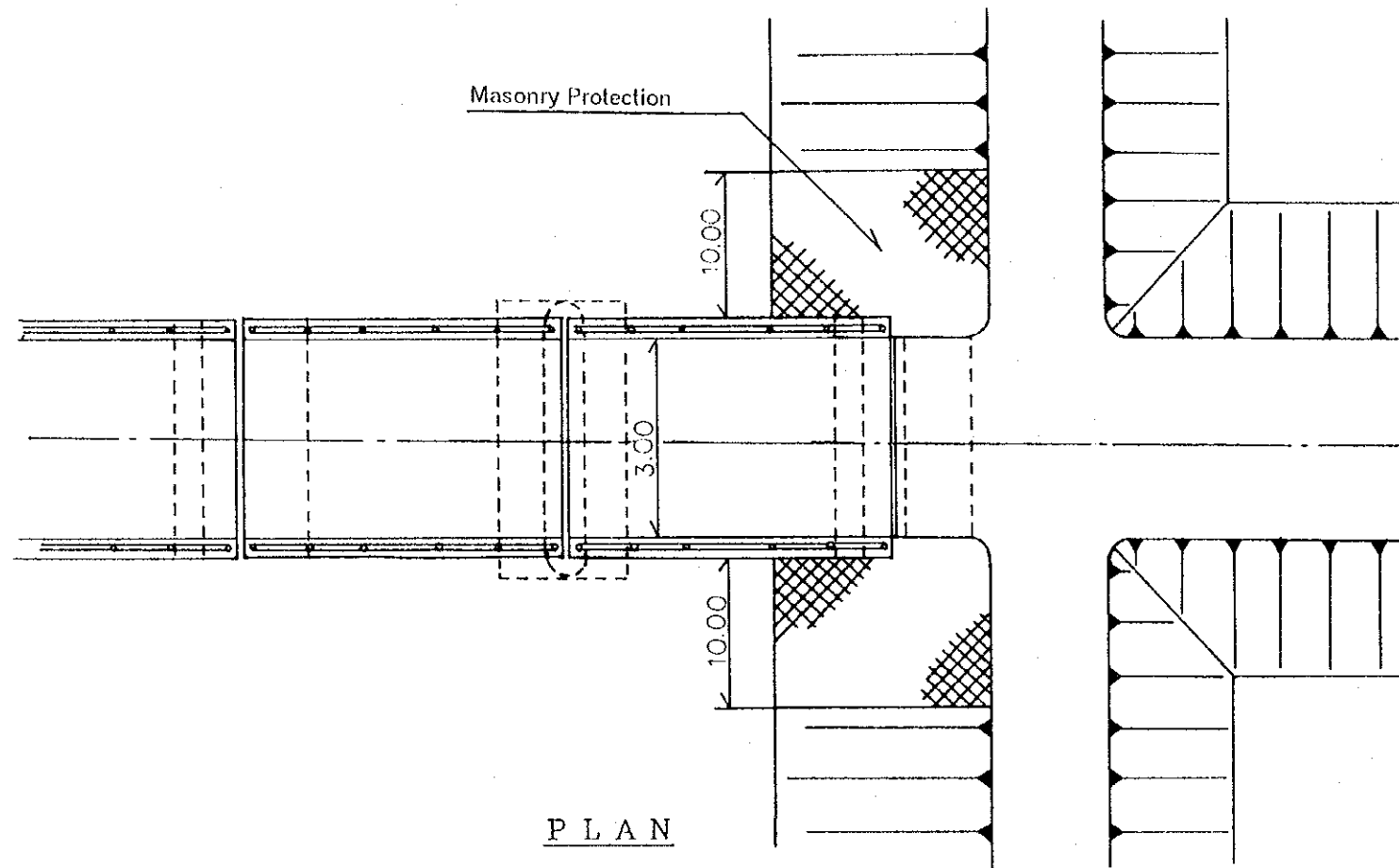
DRAINAGE GATE

DRAWING NO.

3

DATE

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REHABILITATION AND CONSERVATION PROJECT
IN SURAT THANI AND NAKHON SI THAMMARAT
PROVINCES

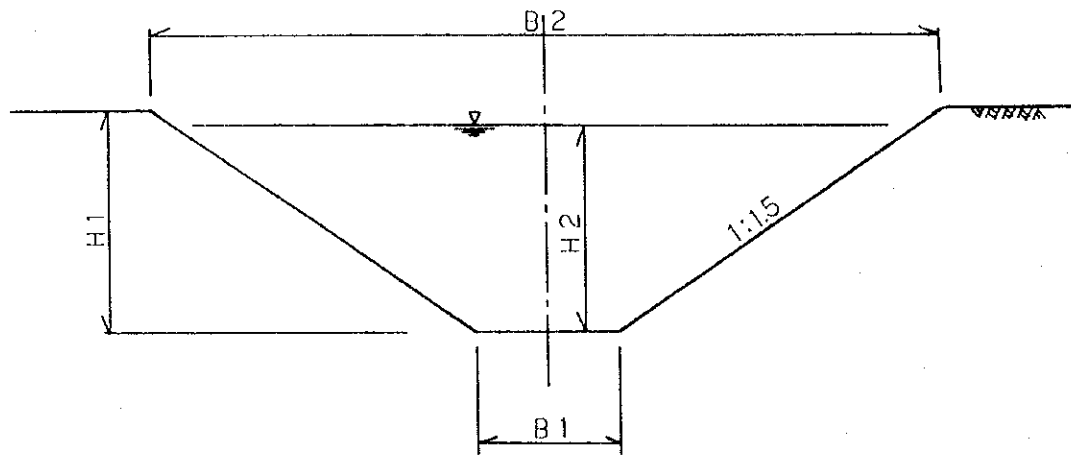
BRIDGE

DRAWING NO.

4

DATE

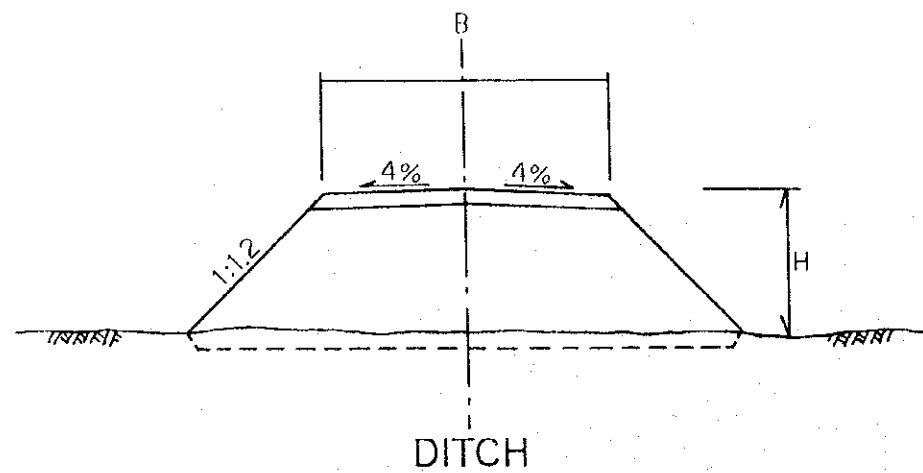
JAPAN INTERNATIONAL COOPERATION AGENCY



DRAINAGE CANAL

Drainage Canal

Type	B1(m)	B2(m)	H1(m)	H2(m)
I	0.7	2.8	0.7	0.5
II	1.0	4.0	1.0	0.7
III	1.5	6.0	1.5	1.2
IV	2.0	8.0	2.0	1.7
V	2.5	10.0	2.5	2.2



DITCH

Farm Road

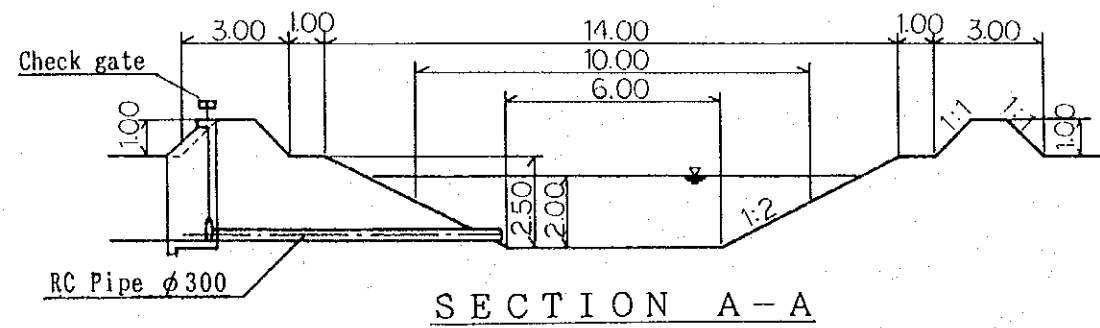
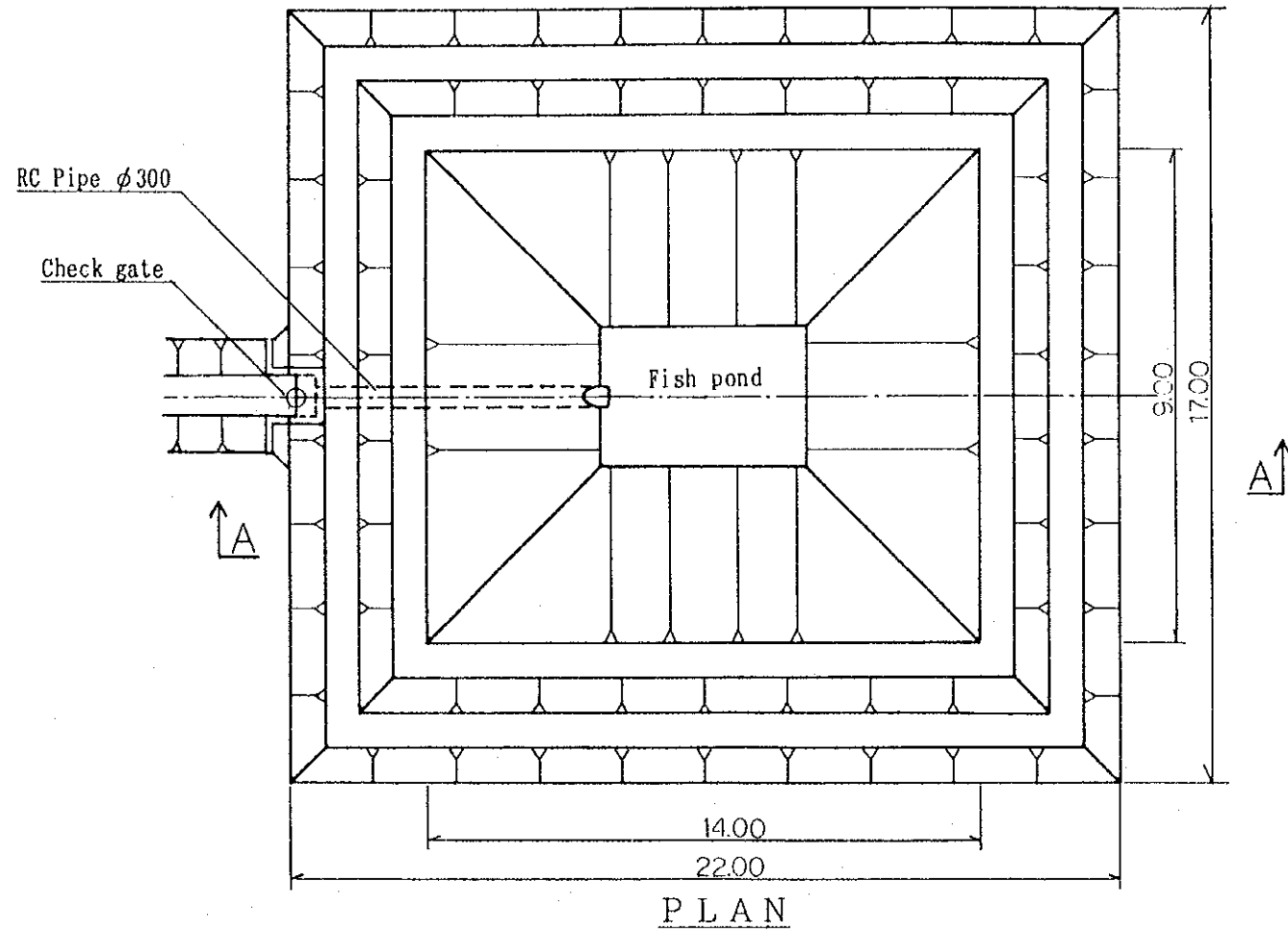
Type	B(m)	H(m)
I	3.0	0.5
II	2.0	0.5
III	2.0	0.1

THE STUDY ON THE AGRICULTURAL LAND
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IN SURAT THANI AND NAKHON SI THAMMARAT
PROVINCES

DRAINAGE CANAL
AND FARM ROAD

DRAWING NO. 5 DATE

JAPAN INTERNATIONAL COOPERATION AGENCY



THE STUDY ON THE AGRICULTURAL LAND
REHABILITATION AND CONSERVATION PROJECT
IN SURAT THANI AND NAKHON SI THAMMARAT
PROVINCES

INLAND FISH POND

DRAWING NO.

6

DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

JICA