

FIGURES

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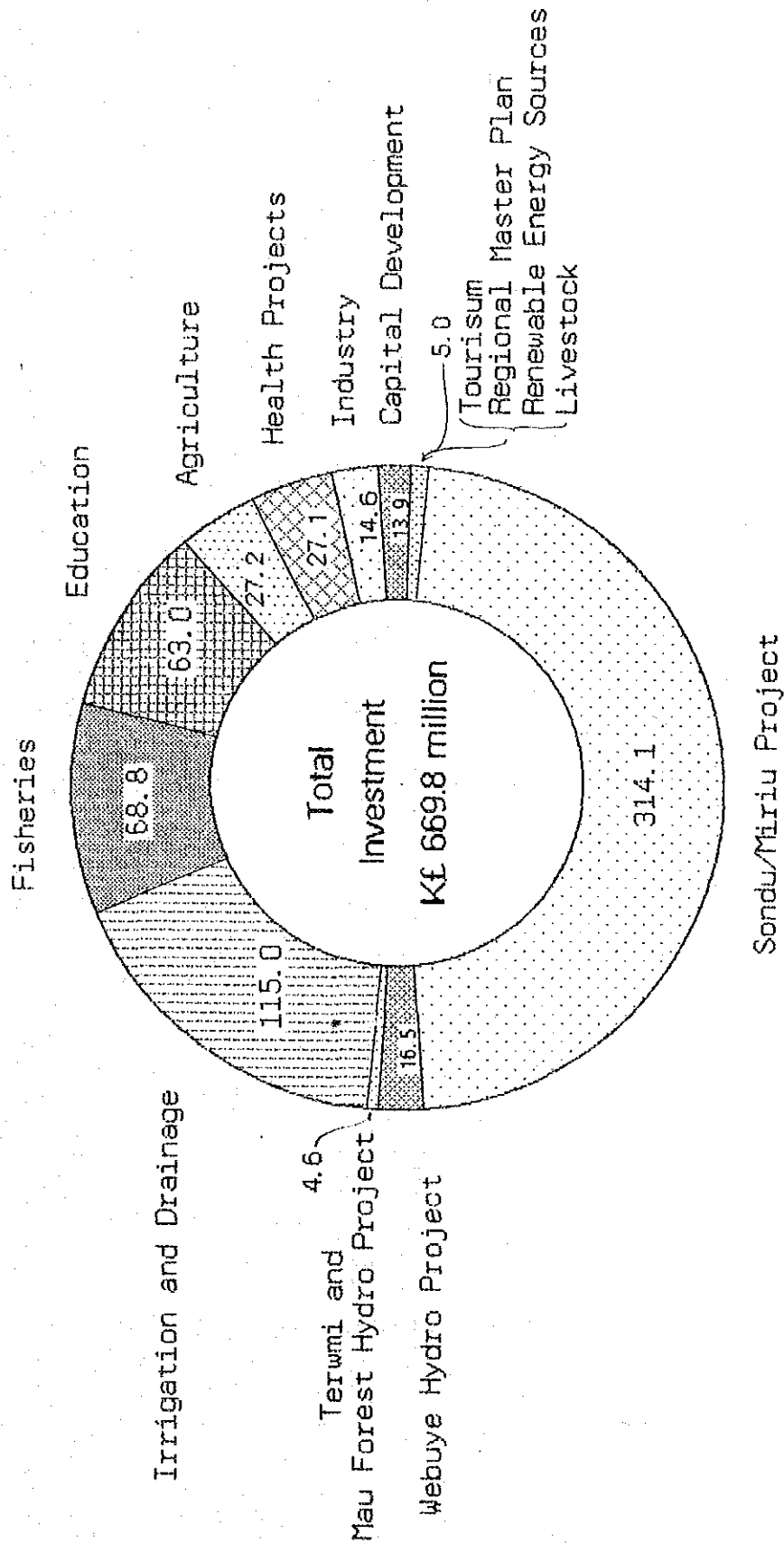


Figure 2.1 Proposed Development Investment

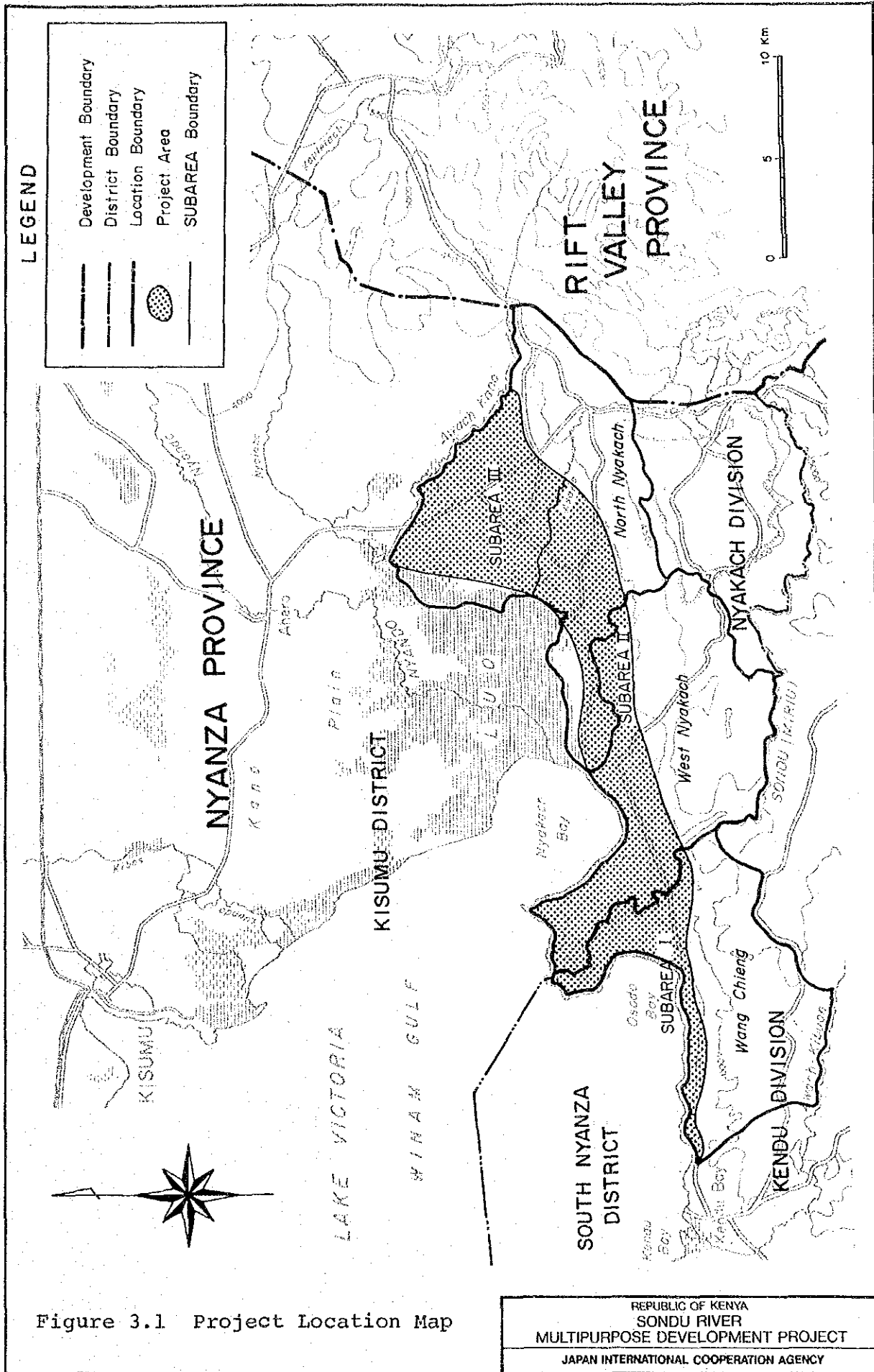


Figure 3.1 Project Location Map

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Note: LEGEND is shown in Figure 3.2 (2/2)

Conventional Symbols

- P32 --- Physiographic Unit
- O28 --- Test Pit Site

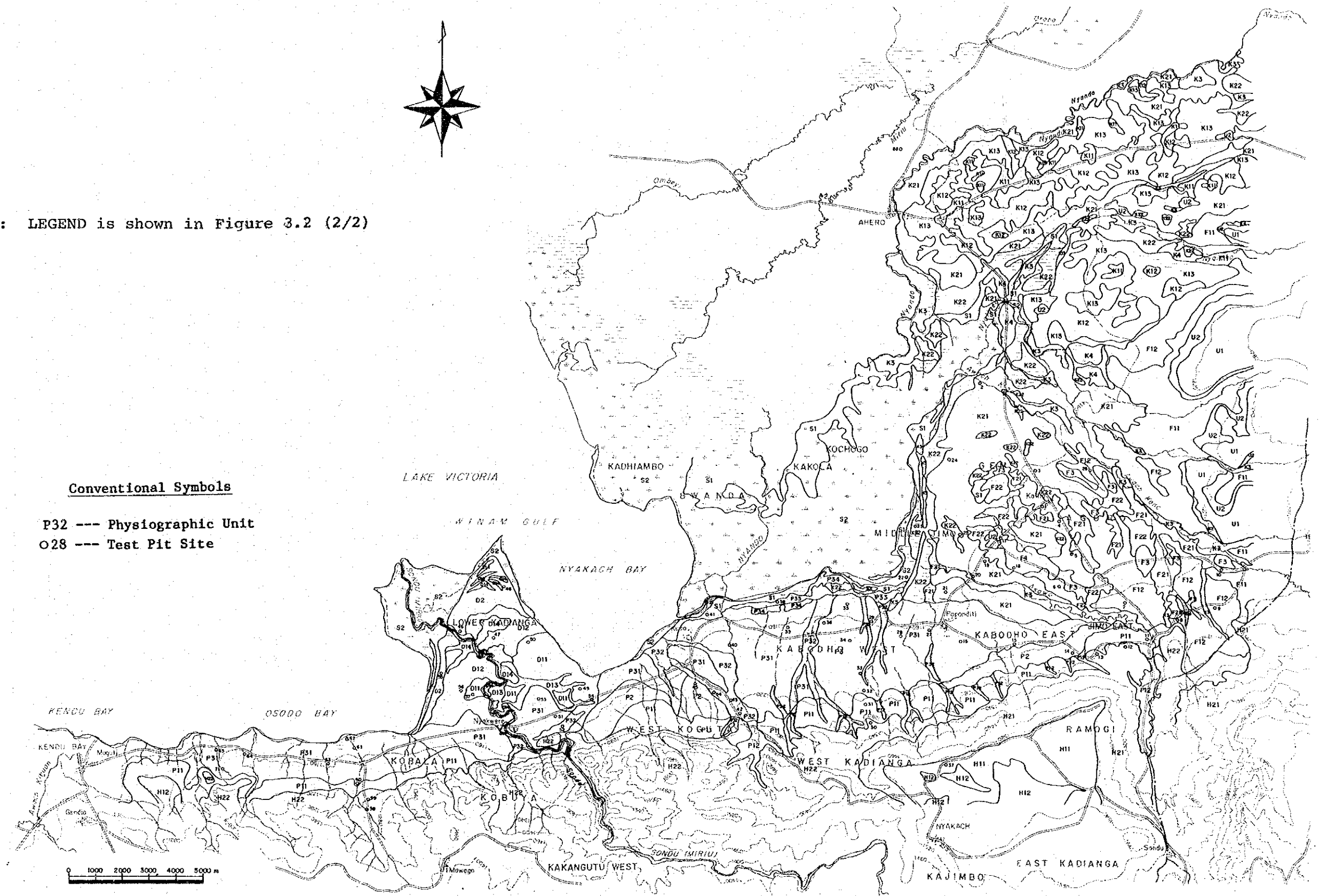


Figure 3.2 (1/2) Soil Map





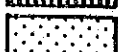
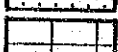

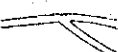
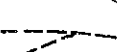

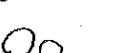
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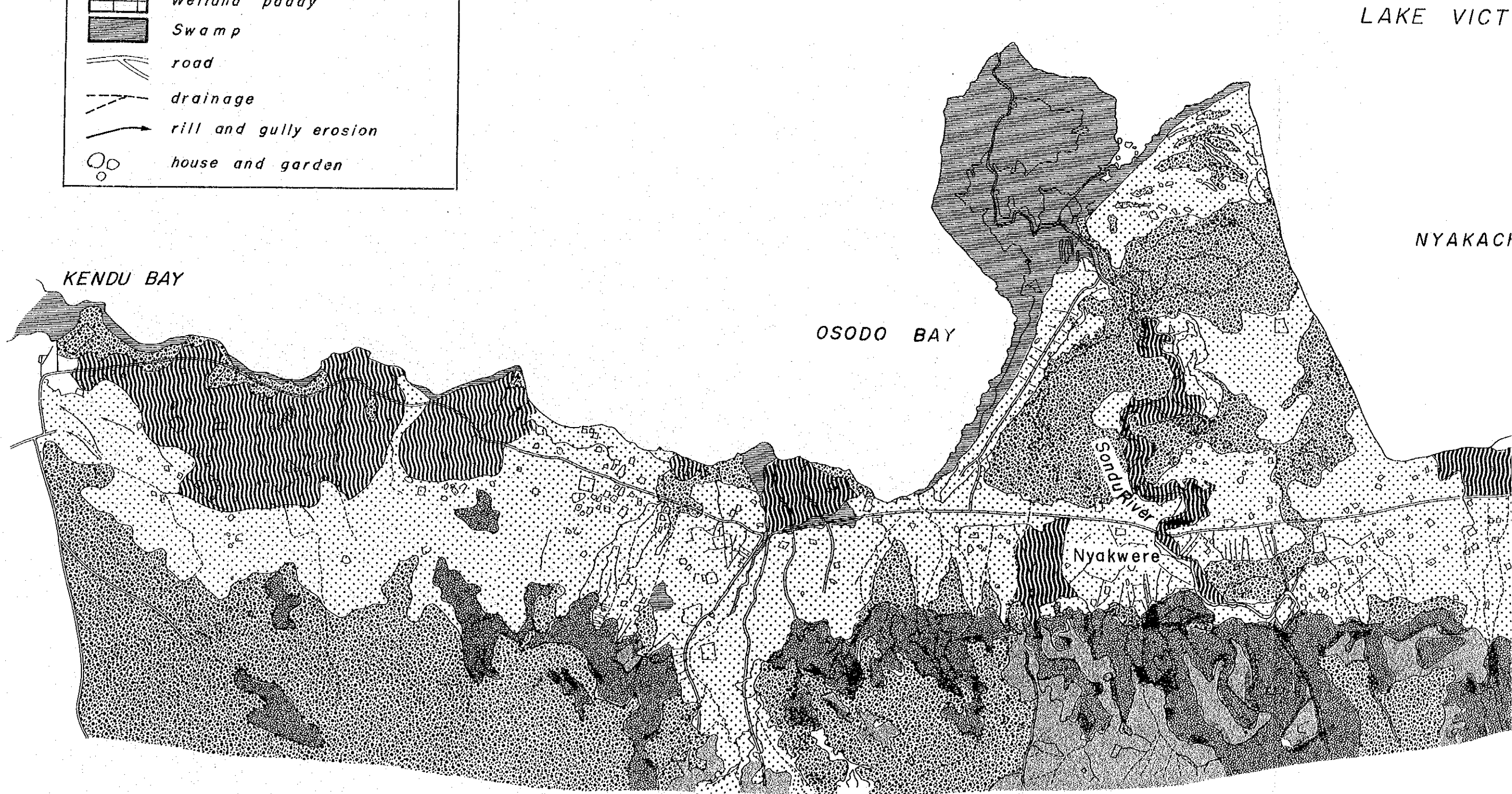
LAND FORM	SUBDIVISION	MAPPING SYMBOL	MAPPING UNIT	SLOPE %	DRAINAGE CONDITION	COLOR	TEXTURE	DEPTH	SOIL UNIT	EXTENT ^{2/} (ha)	
HILLS intermediate igneous rocks H	Plateau mainly phonolite H1	H11	higher parts with irregular microrelief	0-3	well	dark reddish brown to dark red	friable clay, ironstones	deep	Ironstone Soils Nito-rhodic Ferral soils	0	
		H12	lower bottom lands	0-1	well	dark red	friable clay over petro-plinthite	mod. deep to deep	Chromic Cambisols	0	
	Escarpment H2	H21	phonolite, highly resistant to erosion	25<	excessively well to well	dark red	friable sandy clay loam to clay, rocky	shallow	Lithosols	0	
		H22	granodiorite, granite	25<	excessively well to well	dark red to brown	friable sandy clay loam to clay, rocky	shallow	Ironstone Soils	0	
PIEDMONT PLAIN coalescing alluvial and colluvial fans P	Transpositional colluvial footslopes P1	P11	convex slopes	1-4	excessively well to well	dark reddish brown to yellowish brown	gravelly loam	mod. deep to shallow	Ferralic Arenosols Ironstone Soils	120	
		P12	valley bottoms	0-2	moderately well	dark red to brown	clay loam to loam	very deep to deep	Chromic Cambisols Ferralic Arenosols Ferralic-chromic/orthic Luvisols	0	
	Hillslopes P2	P2	transitional unit between P1 and P3	0-2	well	reddish brown to yellowish brown	clay loam	deep	Ferralic Arenosols Chromic Cambisols	420	
		P31	almost flat terrain	0-1	moderately well to well	reddish brown (black to dark grey subsoil)	clay loam to clay	deep	Eutric Regosols Chromic Cambisols	4,770	
	Alluvial toeslopes overlying old lacustrine deposits P3	P32	streams (puddles) bank	0-1	moderately well	yellowish brown	clay loam	very deep	Eutric Regosols Chromic Cambisols	650	
		P33	old stream courses	1-4	poorly	very dark brown grey to dark grey brown	sandy clay loam	deep	Eutric Regosols Chromic Cambisols	180	
		P34	raised lake beach	0-2	well to poorly	very dark brown to grey	silty clay to sandy clay loam	mod. deep	Eutric Regosols	120	
		D11	terrace-like higher land	0	well	brown to dark grey	silty clay loam	deep	Calcic Fluvisols, sodic phase	570	
	CUSPATE DELTA fluvium, partly lacustrine deposits D	D12	D12	recent flood plain	0	poorly to mod. well	brownish grey to brownish black	silty loam	deep	Calcic Fluvisols, sodic phase Eutric Fluvisols	660
			D13	former river courses and point bar complex	0	poorly to mod. well	brownish black	sandy clay clay to silty clay	deep to very deep	Eutric Fluvisols, sodic phase	180
		D14	depression seasonally submerged	0	poorly	dark grey to black	clay	deep	Eutric Fluvisols, sodic phase	280	
		D2	higher lands (1-2m) on unit D1	0-1	well to excessively well	dark brown to yellowish brown	sandy clay to loamy sand	mod. deep to deep	Eutric Regosols Chromic Cambisols	430	
	UPLANDS level flow hill of kericho phonolite U	Platform U1	U1	footslopes of phonolite hills and plateau	2-8	excessively well	reddish brown to greyish	gravelly to stony clay	very shallow	Chromic Cambisols Ironstone Soils	0
			U2	edge and flank of U1	0-2	well to poorly	dark grey brown to reddish brown	gravelly clay to sandy clay	shallow	Ironstone Soils	30
Fan base F1		F11	extending fan base (phonolite) U	1-2	poorly	very dark grey	sandy clay to clay	deep	Chromic Vertisols Pellic Vertisols	0	
		F12	lower alluvial fan base hills granodiorite	0-4	poorly	black to very dark grey to brown	clay	deep	Chromic Vertisols Pellic Vertisols	570	
Old streames F2		F21	old stream courses, eroded sites	1-4	poorly	very dark brown grey to dark grey brown	sandy clay loam	deep	Clayic Luvisols, sodic phase	460	
		F22	old stream courses, below colluvial apron	0-2	poorly	dark grey brown	clay	deep	Pellic Vertisols	620	
Higher sites of colluvial aprons F3		F3		1-4	moderately well to poorly	dark brown, dark greyish brown	sandy clay to sandy loam	deep	Eutric Regosols	240	
		F4	Micro-ridges F4	1-3	moderately well to impeded	dark brown, reddish brown	coarse clay loam to sandy loam, gravel	mod. deep	Eutric Fluvisols Eutric Regosols	190	
LACUSTRINE PLAIN lacustrine deposit and mudstone material K		Slightly higher lands, mainly alkaline and calcareous mudstone K1	K11	flatish summit of minor ridge	0-2	impeded	dark brown to greyish brown	gravelly sandy clay to clay loam	very shallow	Vertic Cambisols	0
			K12	gently sloping land	1-3	poorly	very dark brown to grey	clay	shallow	Pellic Vertisols, paralithic	0
	K13	depression	0-2	poorly	very dark grey to brown	clay	moderately deep	Pellic Vertisols	0		
	K21	base level	0	poorly	very dark grey	clay	very deep	Pellic Vertisols Chromic Vertisols	2,490		
	K22	receiving drainage	0	very poorly	very dark grey to black	clay	very deep	Pellic Vertisols Eutric Gleysols	630		
Active stream benks K3 Old levee K4 Raised lake beach K5	K3	irregular micro-relief	0-2	well to poorly	very dark brown to grey	clay to silty clay	moderately deep	Eutric Fluvisols	220		
	K4	slopy mound, uneven	0	moderately well to poorly	very dark brown to dark greyish brown	sandy clay loam	deep to very deep	Dystric Regosols, saline phase	0		
	K5	Raised lake beach	0-2	well to poorly	very dark brown to grey	silty clay to sandy clay loam	moderately deep	Eutric Regosols, saline-sodic phase	50		
	S1	Seasonal swamp	1-2	very poorly	very dark grey to black	clay	very deep	Pellic Vertisols Eutric Gleysols	0		
	S2	Permanent swamp	0	very poorly	very dark grey to black	peaty	very deep		0		

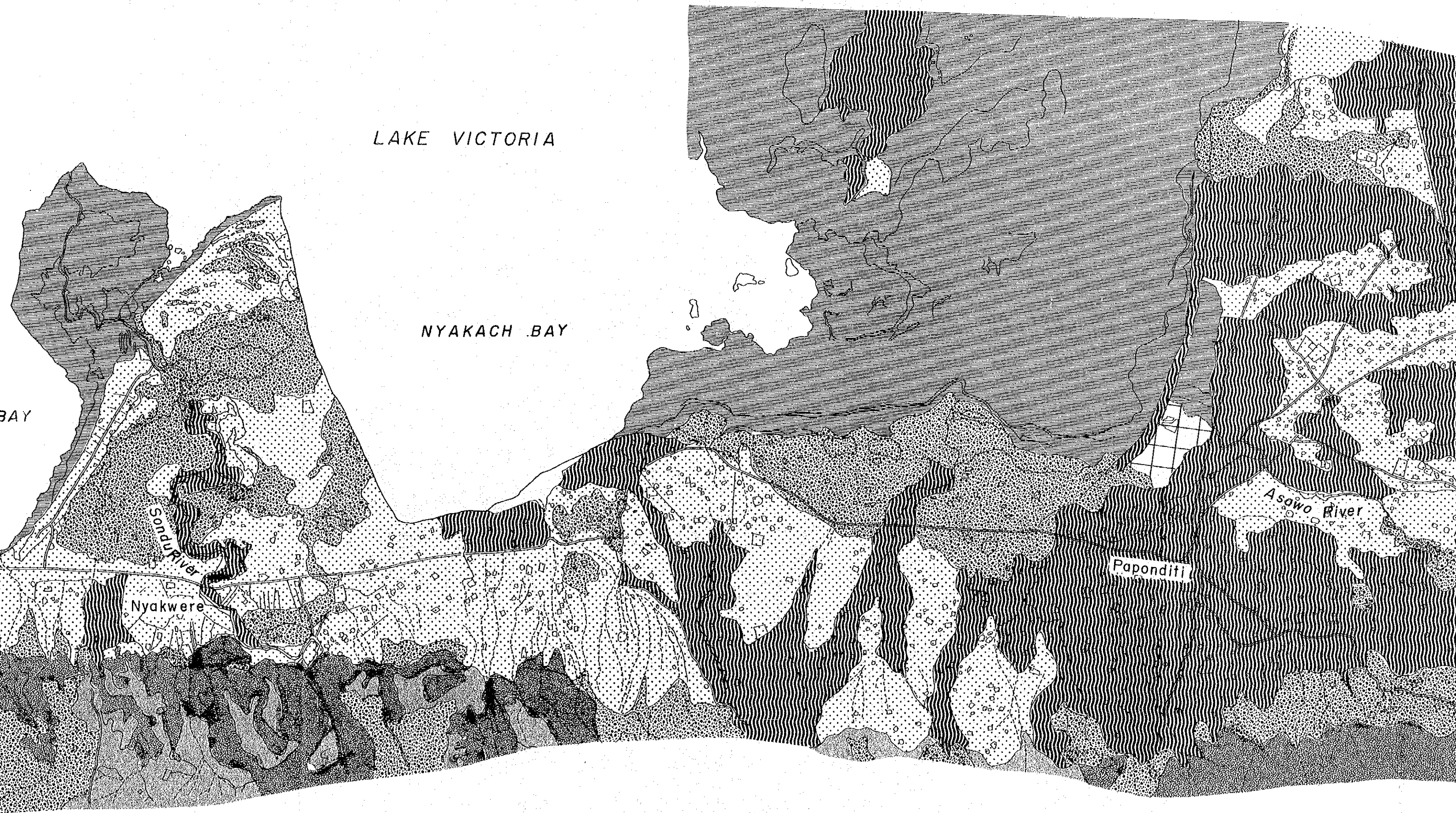
^{2/} indicating area extent of each mapping with in the Project area with 13,980ha

Figure 3.2 (2/2) Soil Map

LEGEND

	Forest
	Scrub Woodland
	Grassland
	Upland Crops, densely planted
	Upland Crops, sparsely planted
	Wetland paddy
	Swamp
	road
	drainage
	rill and gully erosion
	house and garden





LAKE VICTORIA

NYAKACH BAY

BAY

Soudur River

Nyakwere

Paponditi

Asowo River

DORIA
BAY

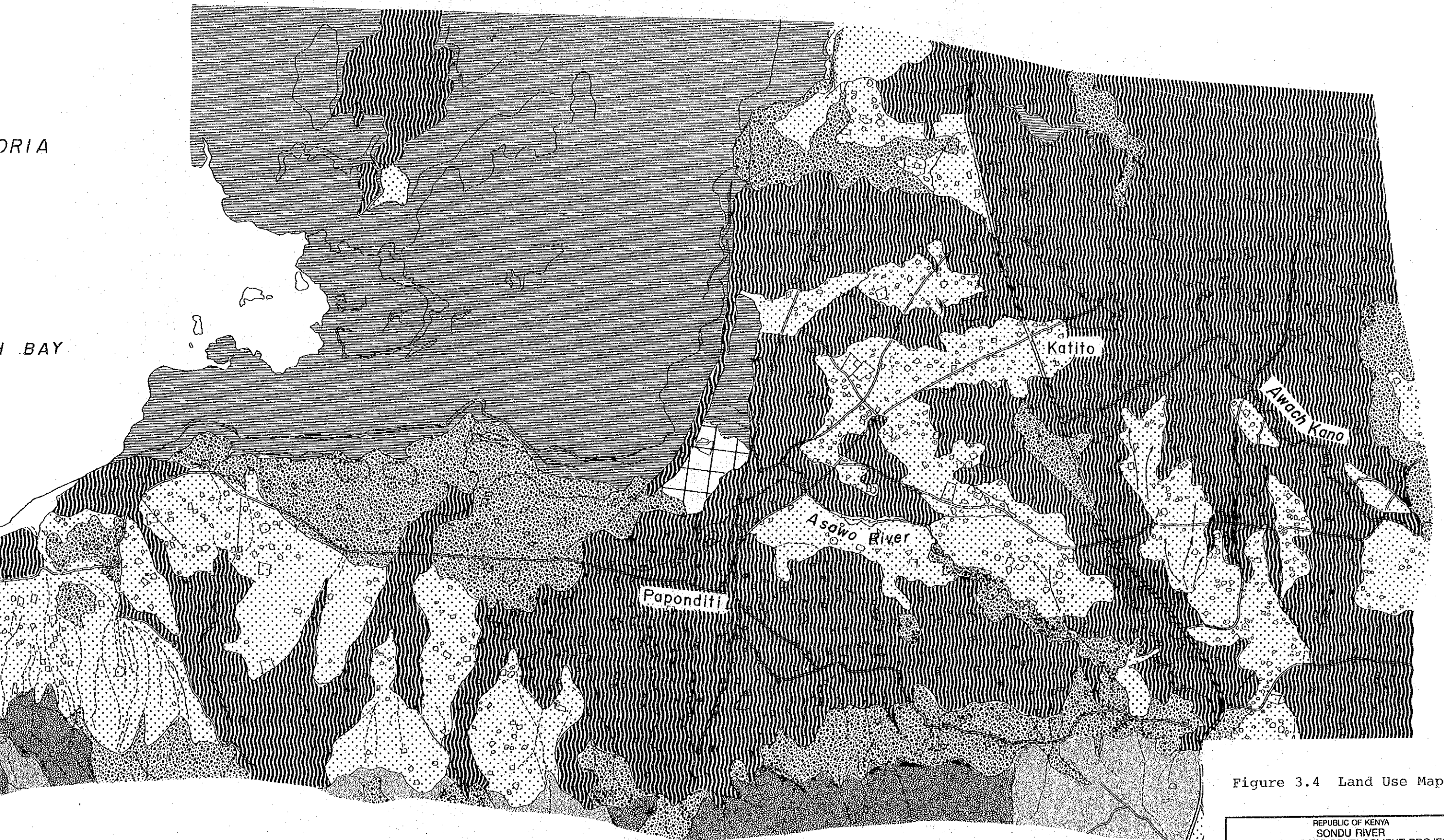


Figure 3.4 Land Use Map

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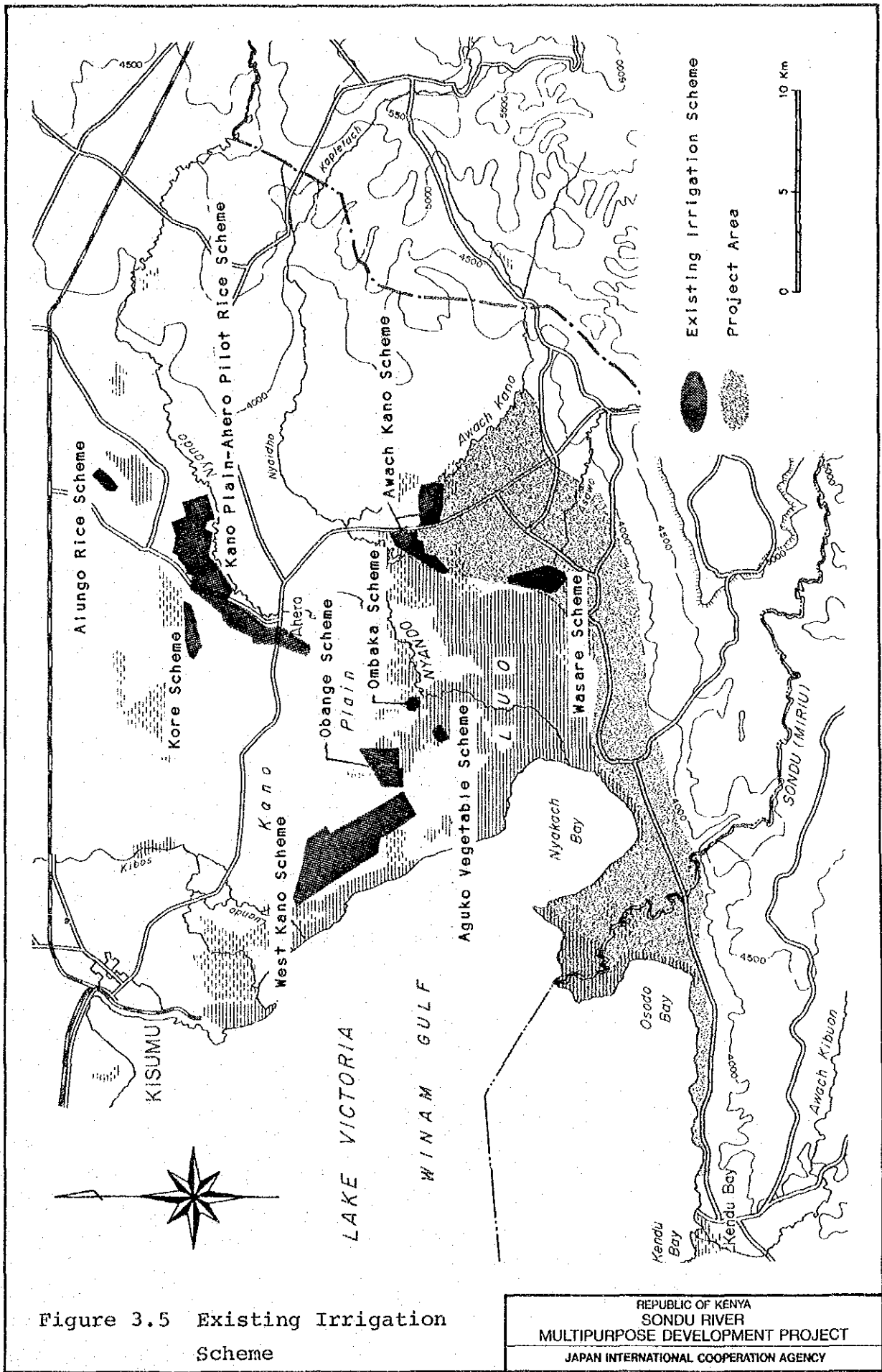


Figure 3.5 Existing Irrigation Scheme

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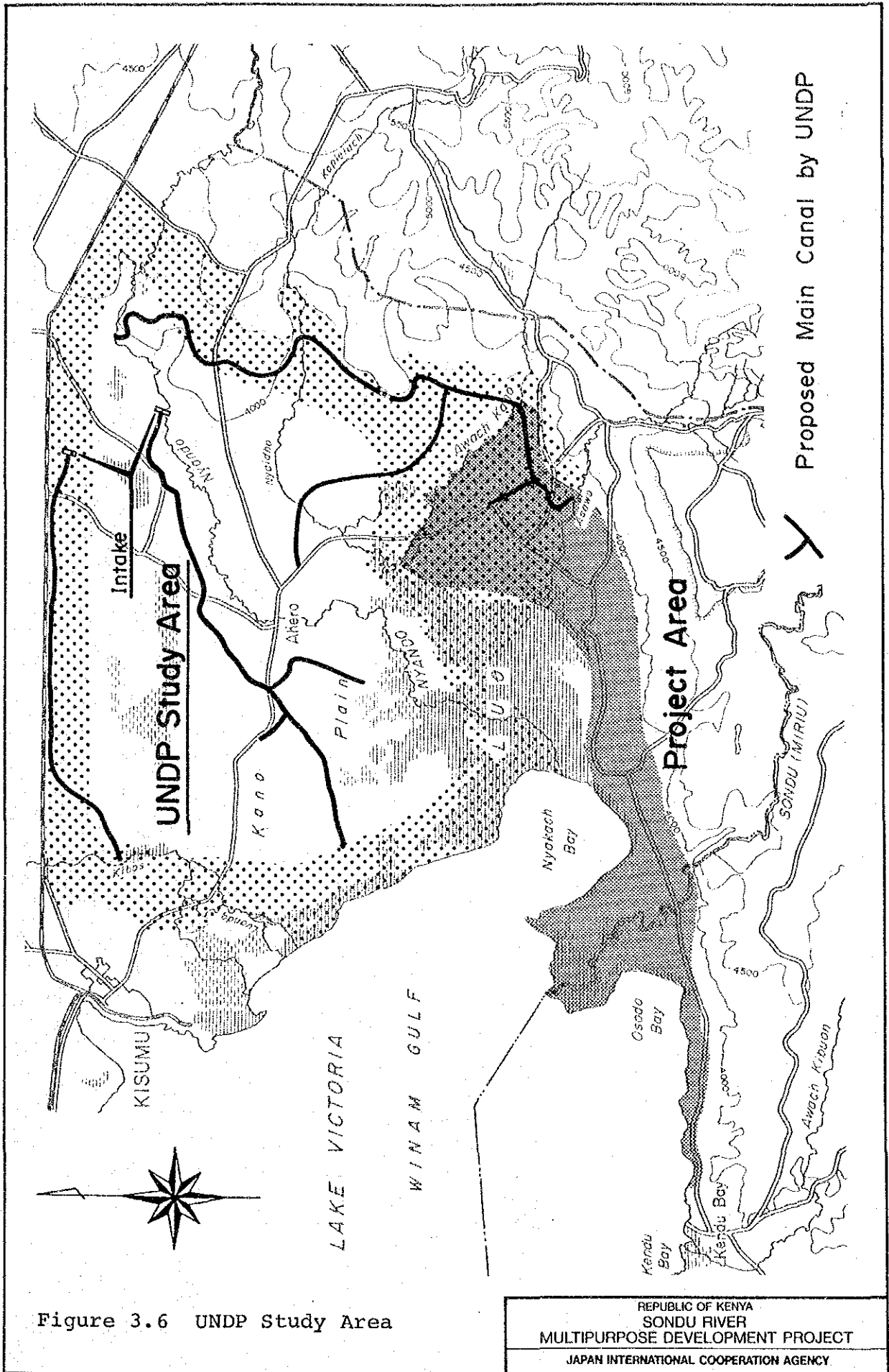
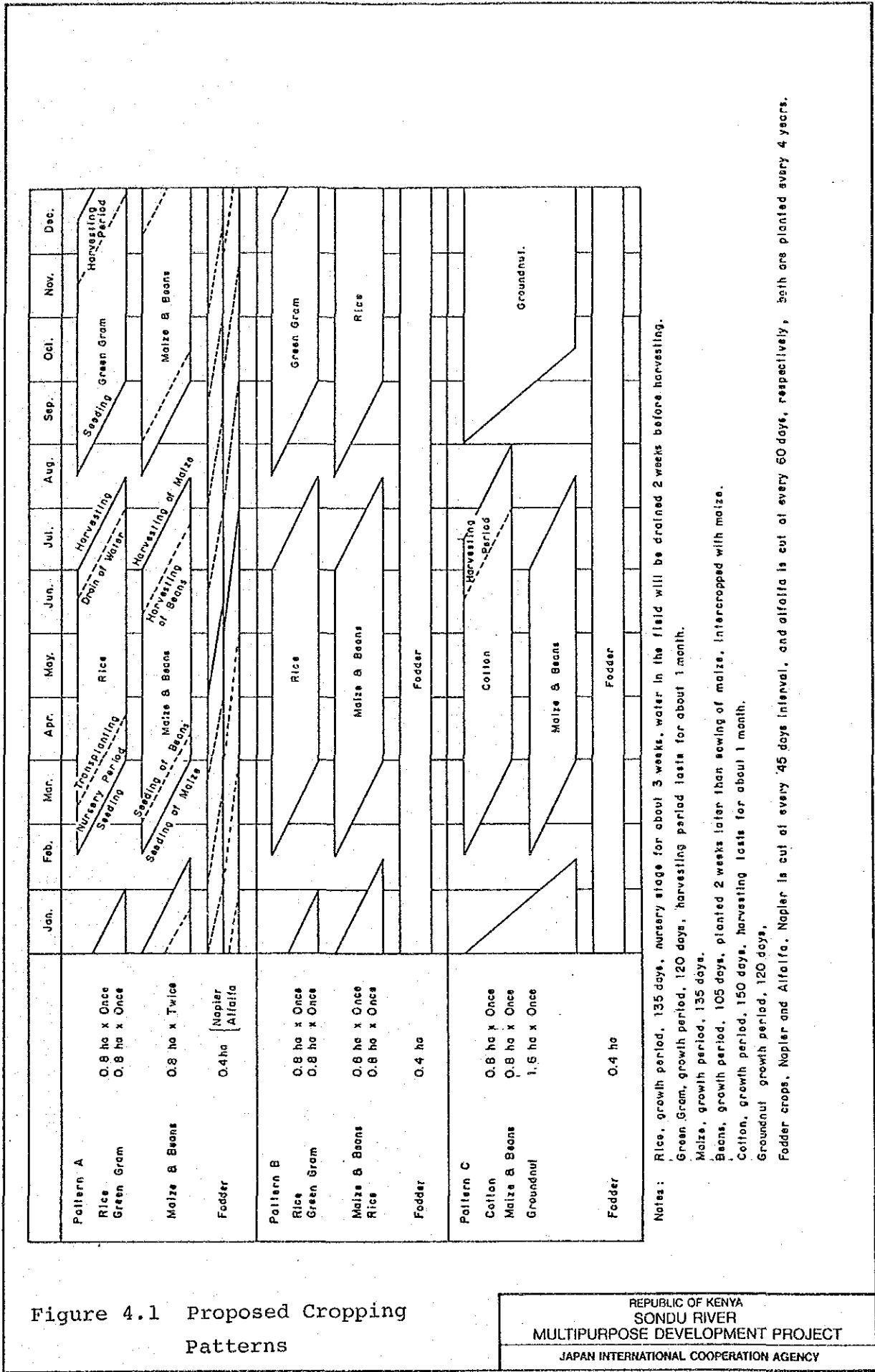


Figure 3.6 UNDP Study Area

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Proposed Main Canal by UNDP



Notes: Rice, growth period, 135 days, nursery stage for about 3 weeks, water in the field will be drained 2 weeks before harvesting.
 Green Gram, growth period, 120 days, harvesting period lasts for about 1 month.
 Maize, growth period, 135 days.
 Beans, growth period, 105 days, planted 2 weeks later than sowing of maize, intercropped with maize.
 Cotton, growth period, 150 days, harvesting lasts for about 1 month.
 Groundnut, growth period, 120 days.
 Fodder crops, Napier and Alfalfa, Napier is cut at every 45 days interval, and alfalfa is cut at every 60 days, respectively, both are planted every 4 years.

Figure 4.1 Proposed Cropping Patterns

LEGEND

- Main Irrigation Canal
- Secondary Irrigation Canal
- Turnout
- Existing Road
- Natural Drainage
- Project Area
- - - Boundary of SUBAREA

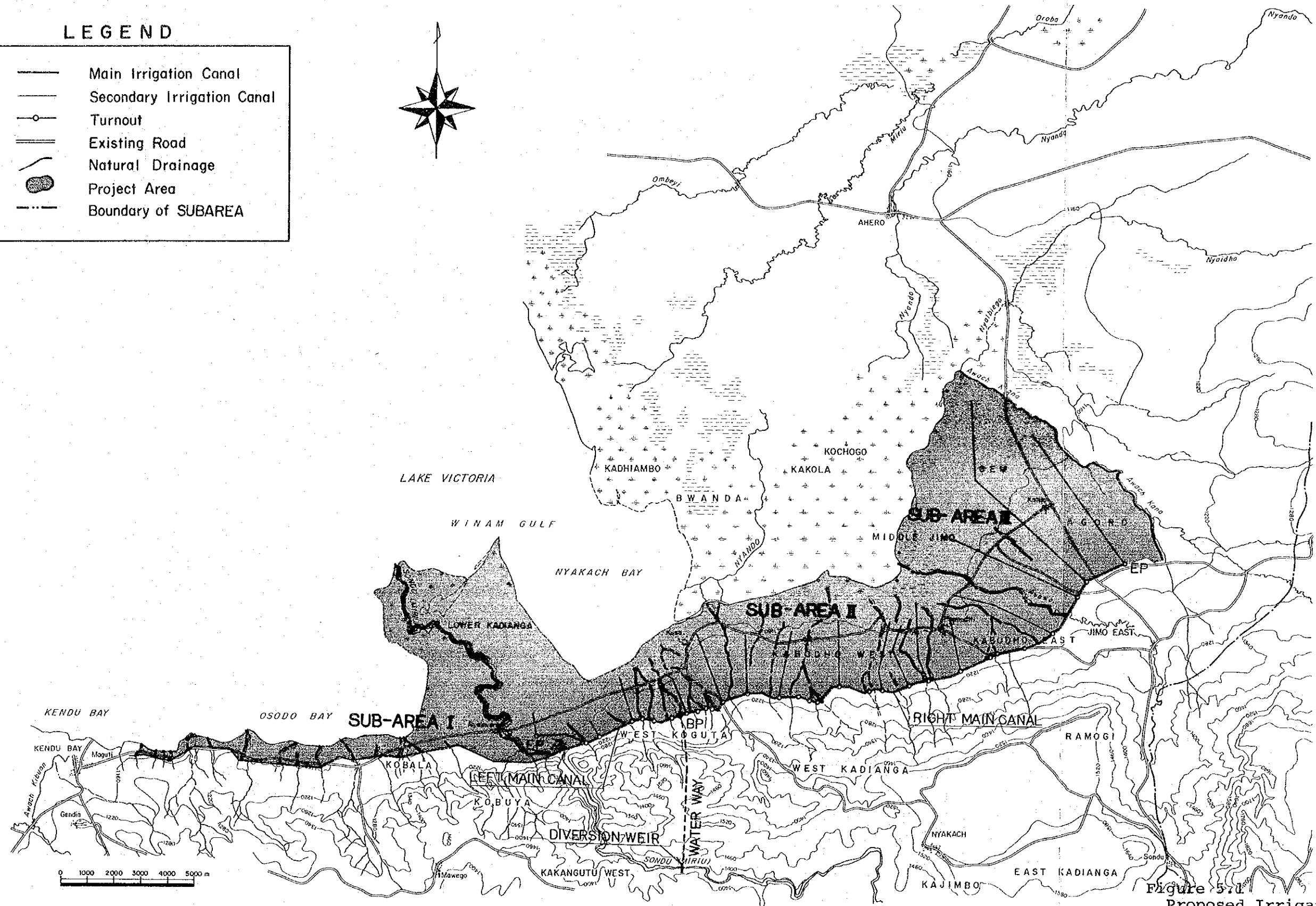


Figure 5.1
**Proposed Irrigation and
 Drainage Canal Layout**
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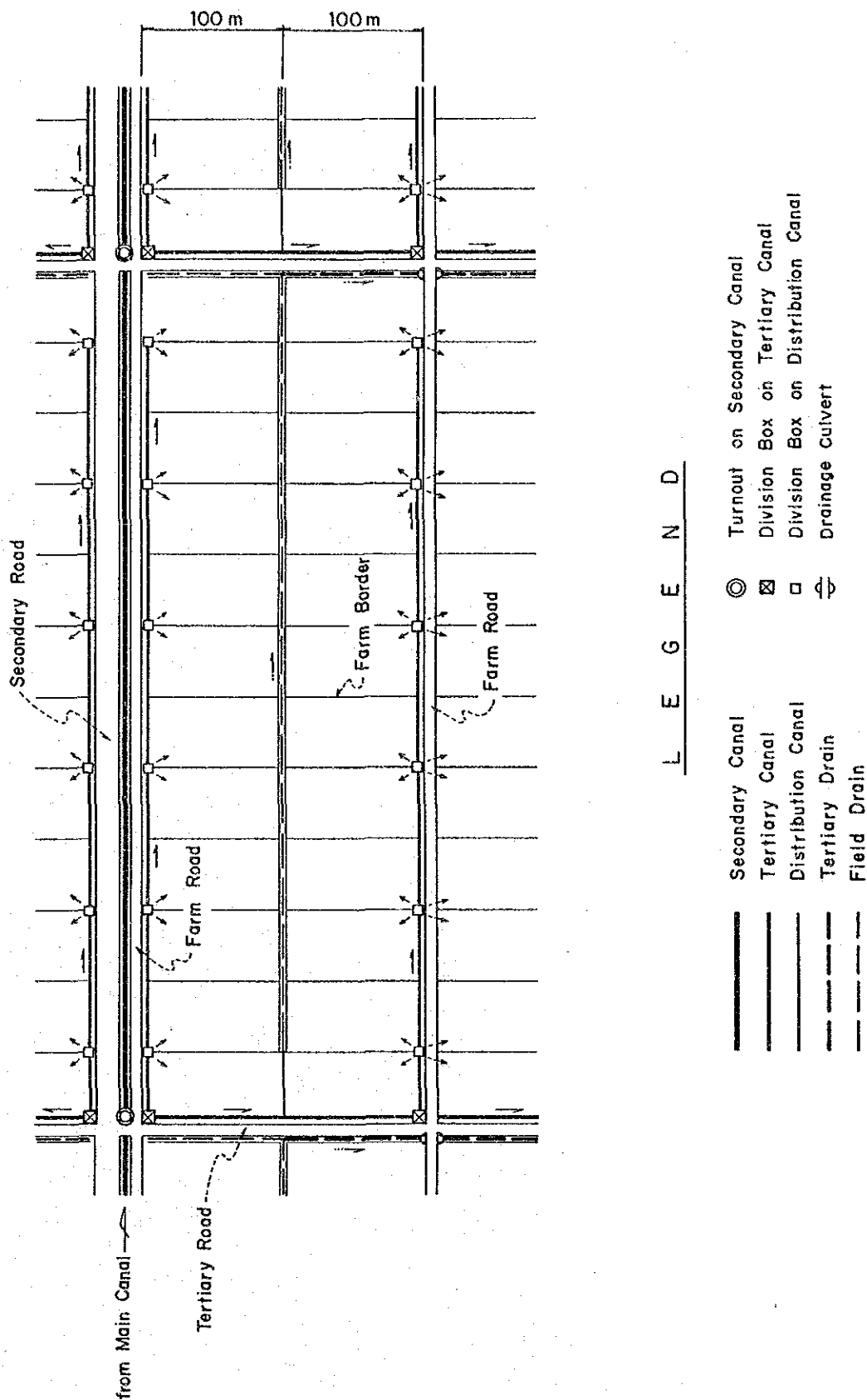


Figure 5.2 Typical Farm Layout

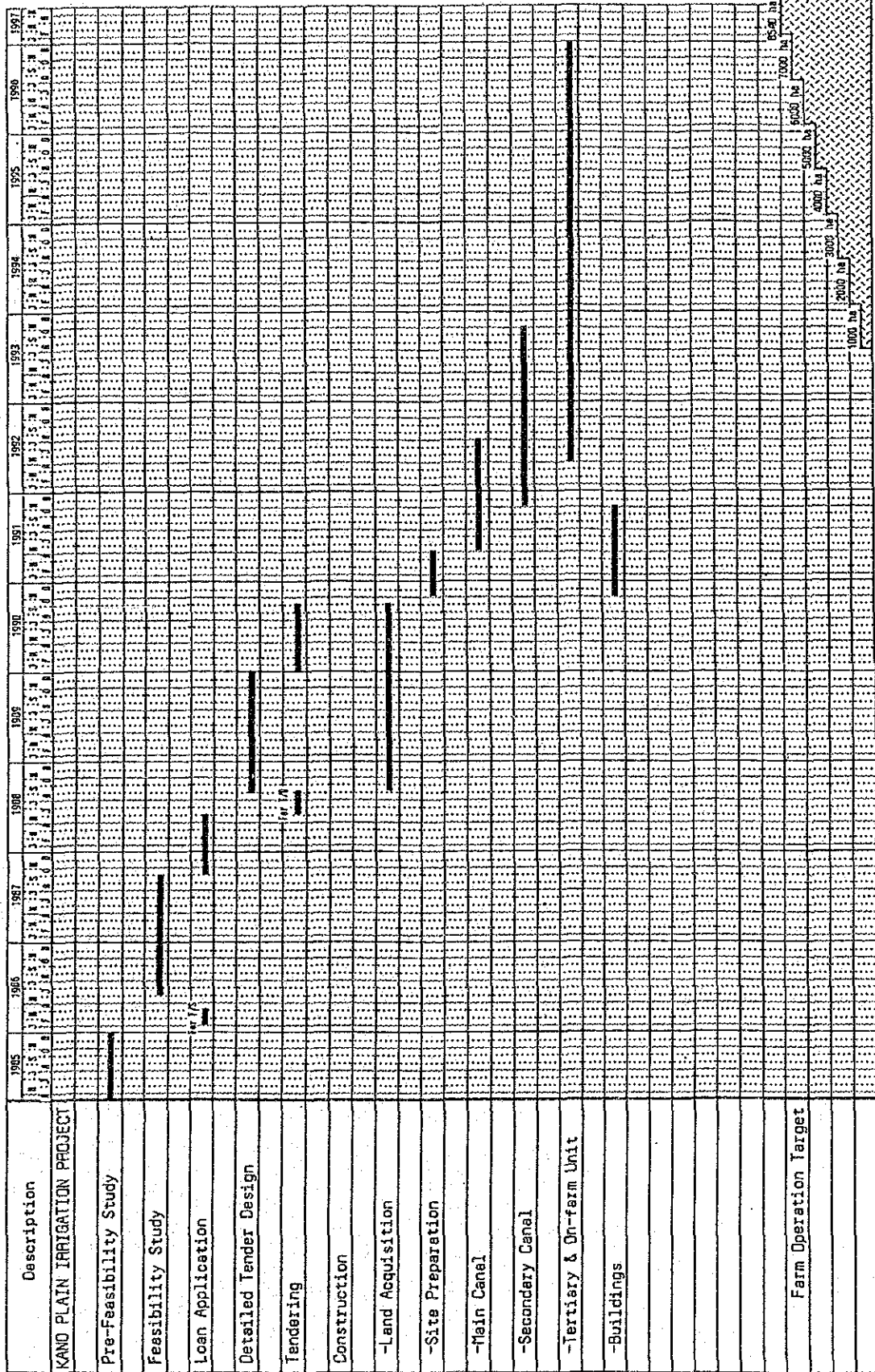


Figure 5.3 Tentative Implementation Schedule

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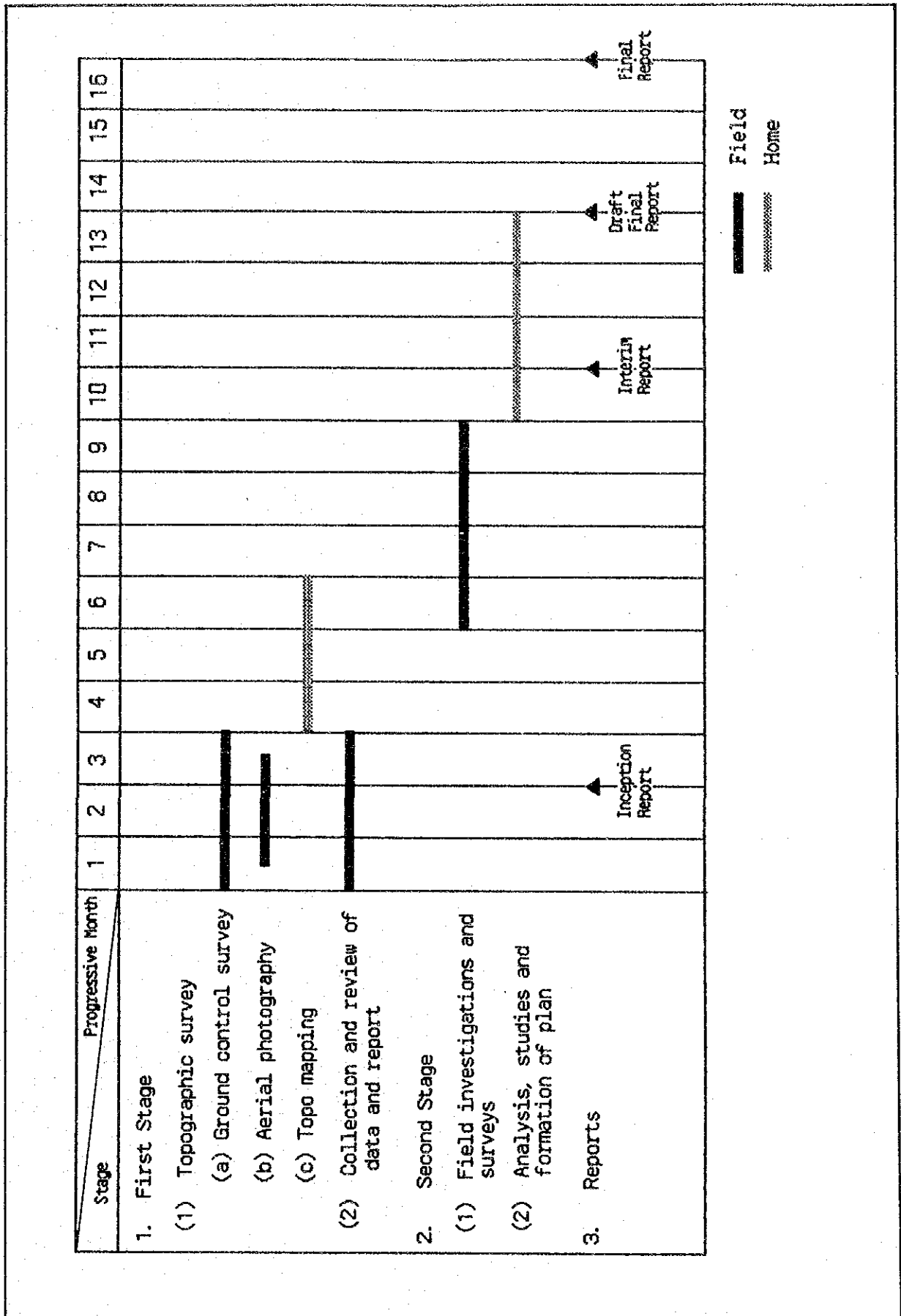


Figure 7.1 Tentative Study Schedule

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