

REPUBLIC OF INDONESIA
MINISTRY OF AGRICULTURE
DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE

FEASIBILITY STUDY
FOR
LAND DEVELOPMENT PROJECT
IMPROVEMENT OF LAND AND IRRIGATION
SYSTEMS AT FARM LEVEL

VOLUME III
DRAWINGS



OCTOBER, 1992

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO, JAPAN

A F A
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国際協力事業団

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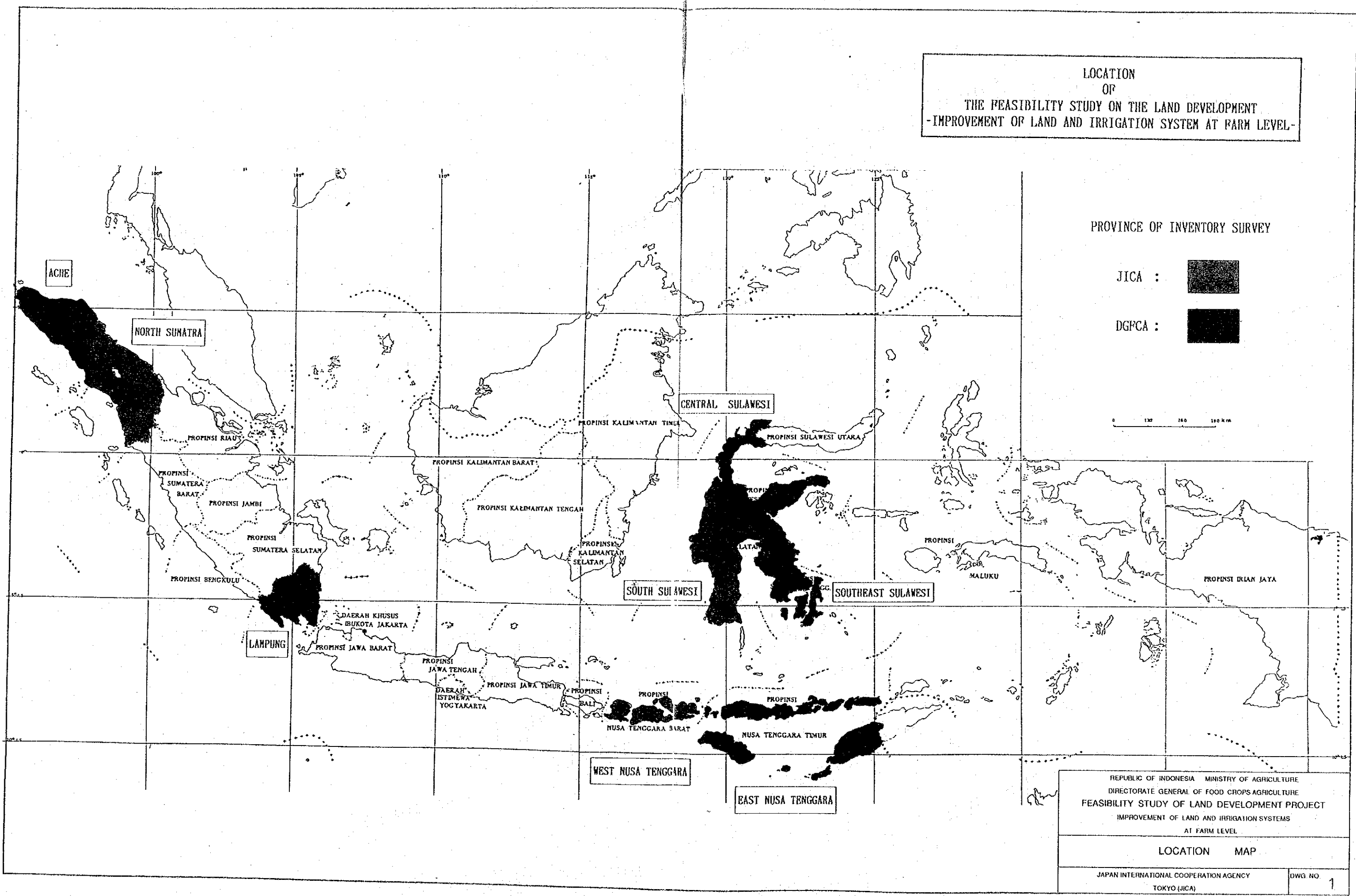
**FEASIBILITY STUDY
FOR
LAND DEVELOPMENT PROJECT
*IMPROVEMENT OF LAND & IRRIGATION SYSTEM AT FARM LEVEL***

VOLUME III DRAWINGS



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3	LOCATION OF REPRESENTATIVE SCHEMES IN SOUTH SULAWESI PROVINCE
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LOCATION OF THE FEASIBILITY STUDY ON THE LAND DEVELOPMENT -IMPROVEMENT OF LAND AND IRRIGATION SYSTEM AT FARM LEVEL-

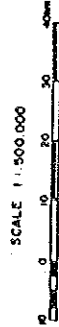
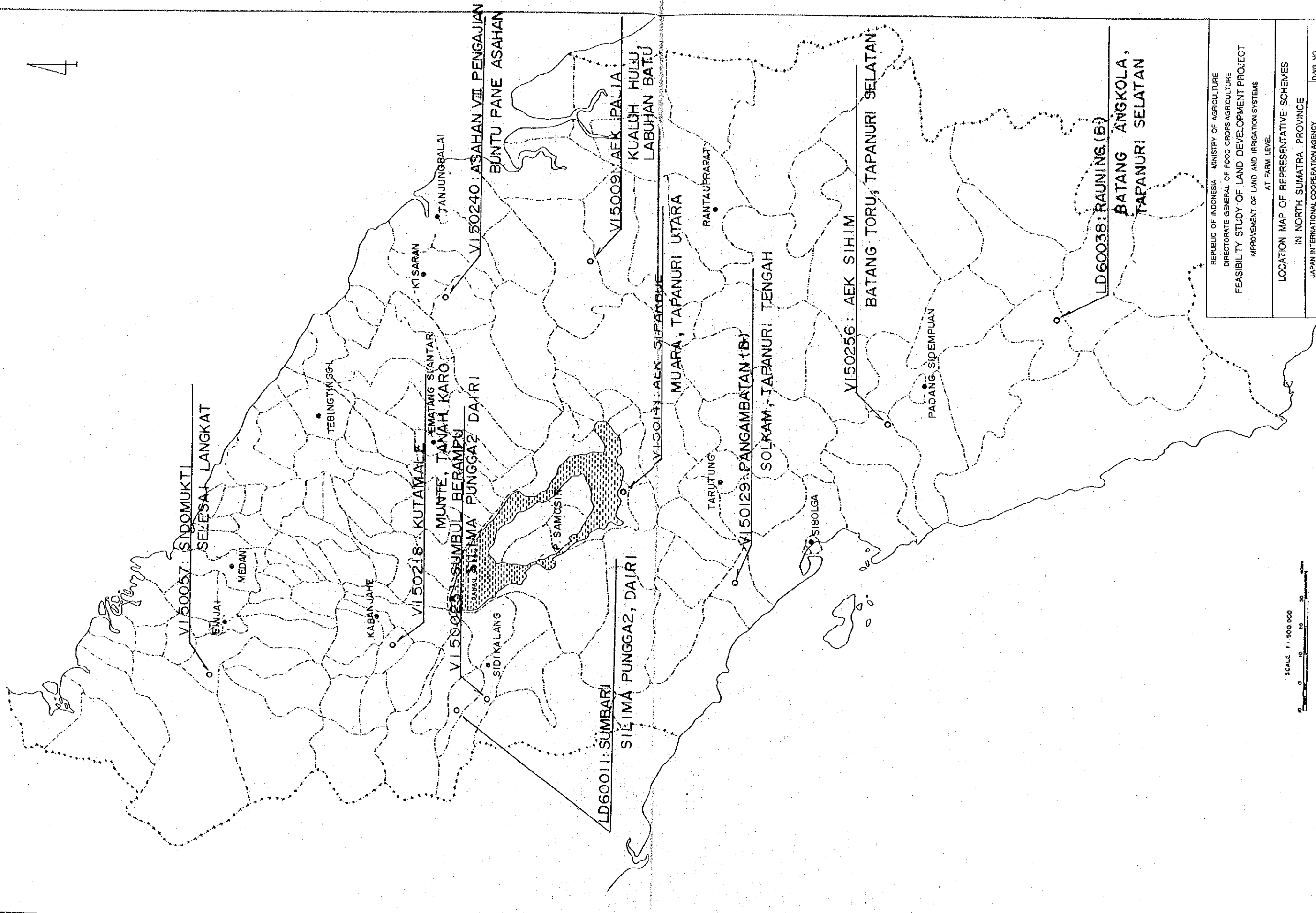


PROVINCE OF INVENTORY SURVEY

- JICA : 
- DGPCA : 

0 100 200 300 Km

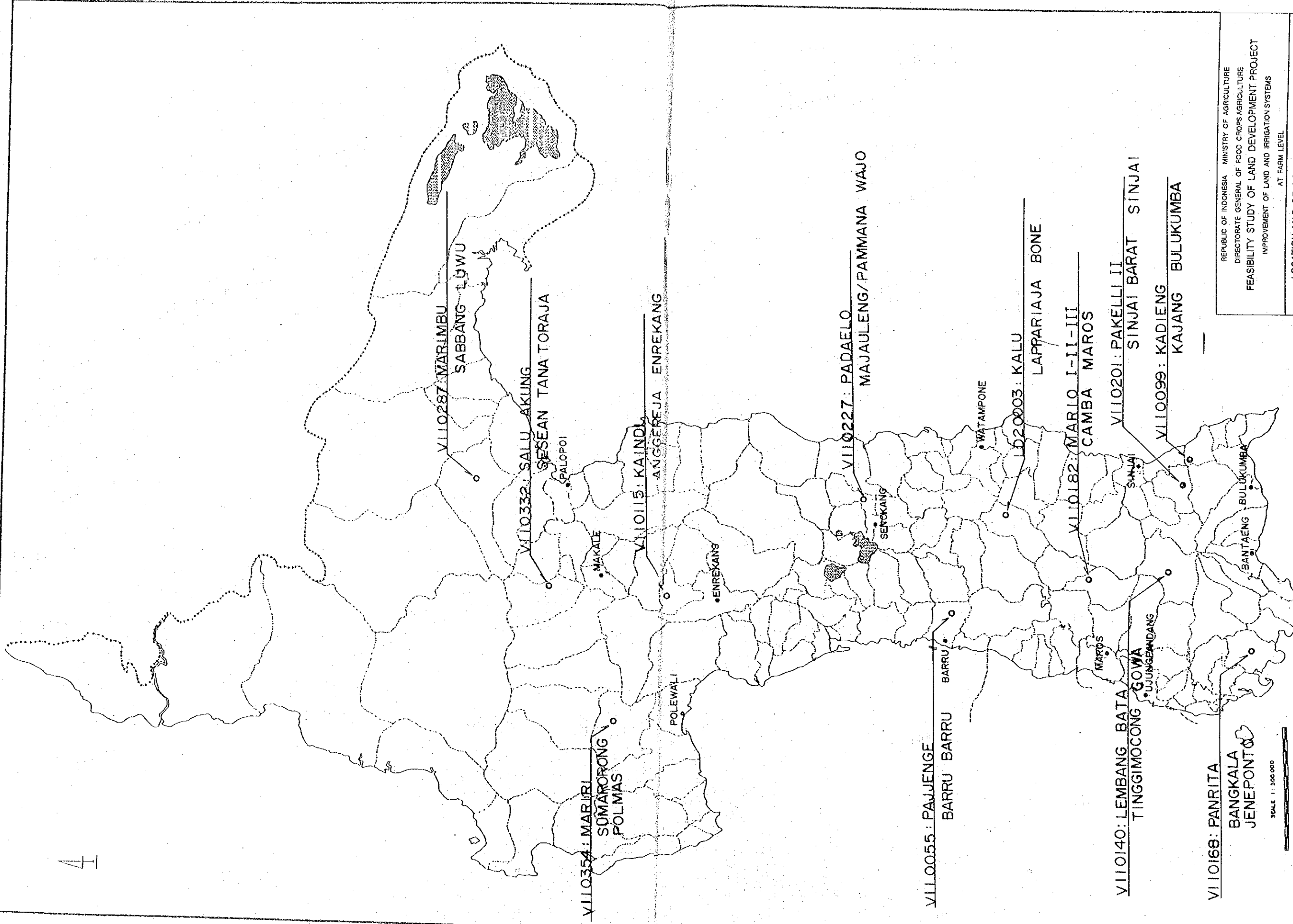
REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS AT FARM LEVEL	
LOCATION MAP	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA)	DWG NO. 1



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LOCATION MAP OF REPRESENTATIVE SCHEMES
 IN NORTH SUMATRA PROVINCE

JAPAN INTERNATIONAL COOPERATION AGENCY DWG. NO. 2
 TOKYO (JICA)



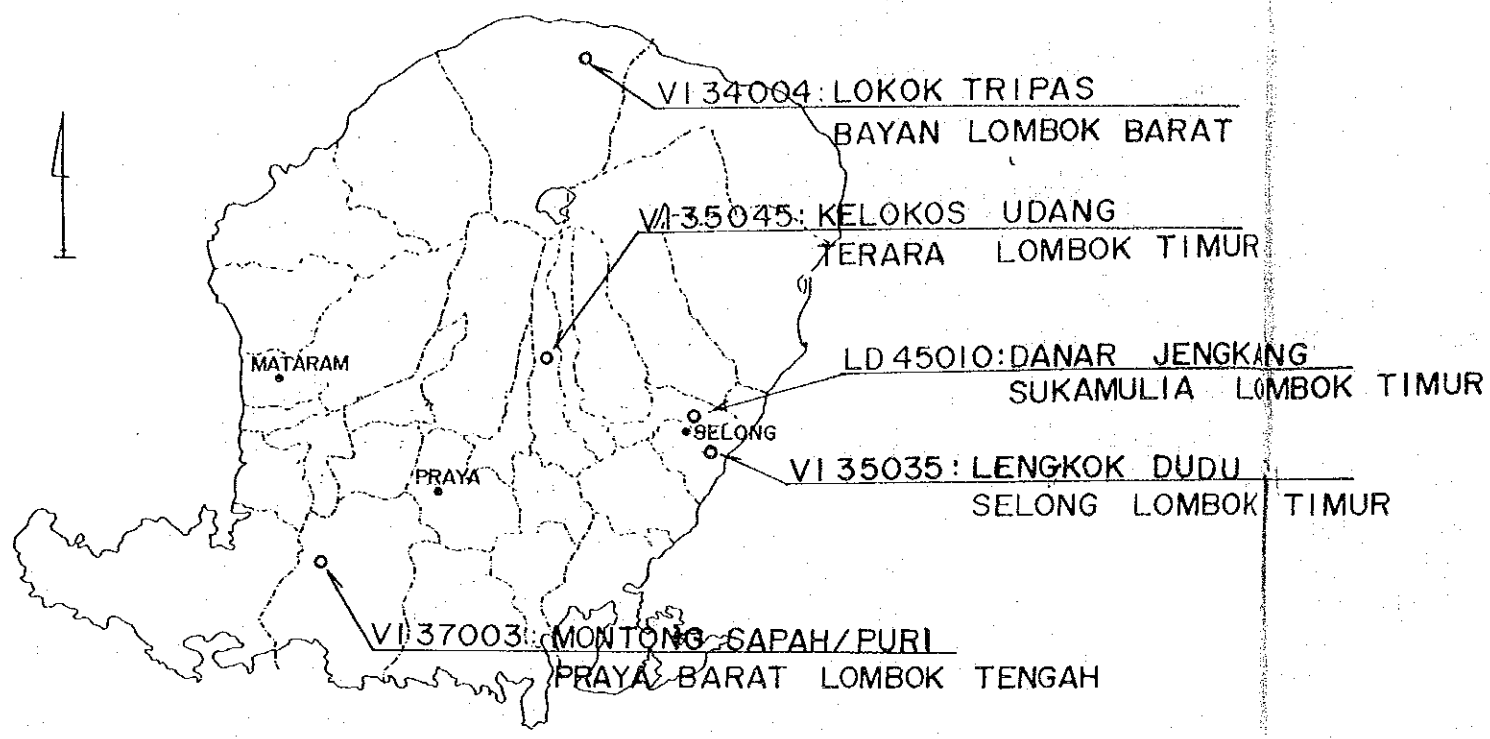
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FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT
 IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS
 AT FARM LEVEL

LOCATION MAP OF REPRESENTATIVE SCHEMES
 IN SOUTH SULAWESI PROVINCE

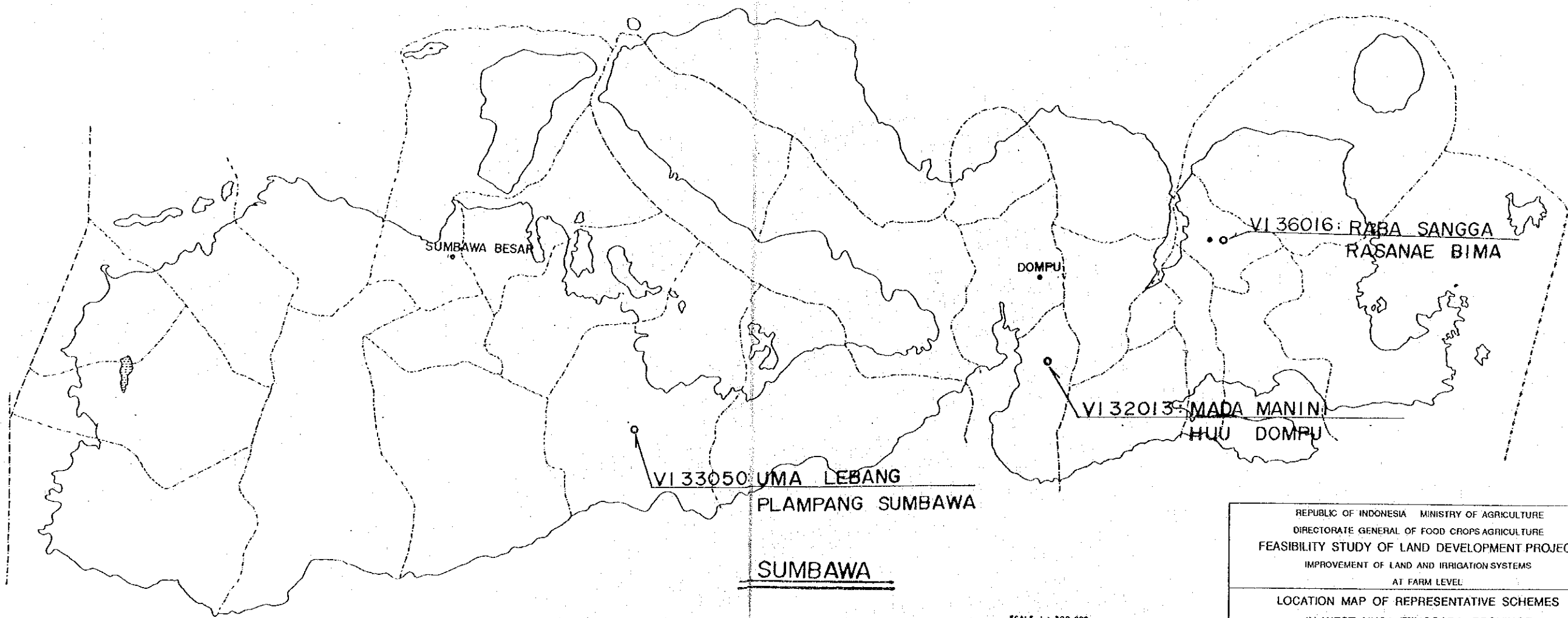
JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO (JICA)

DWG. NO. **3**

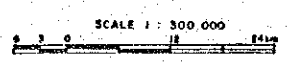
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LOMBOK

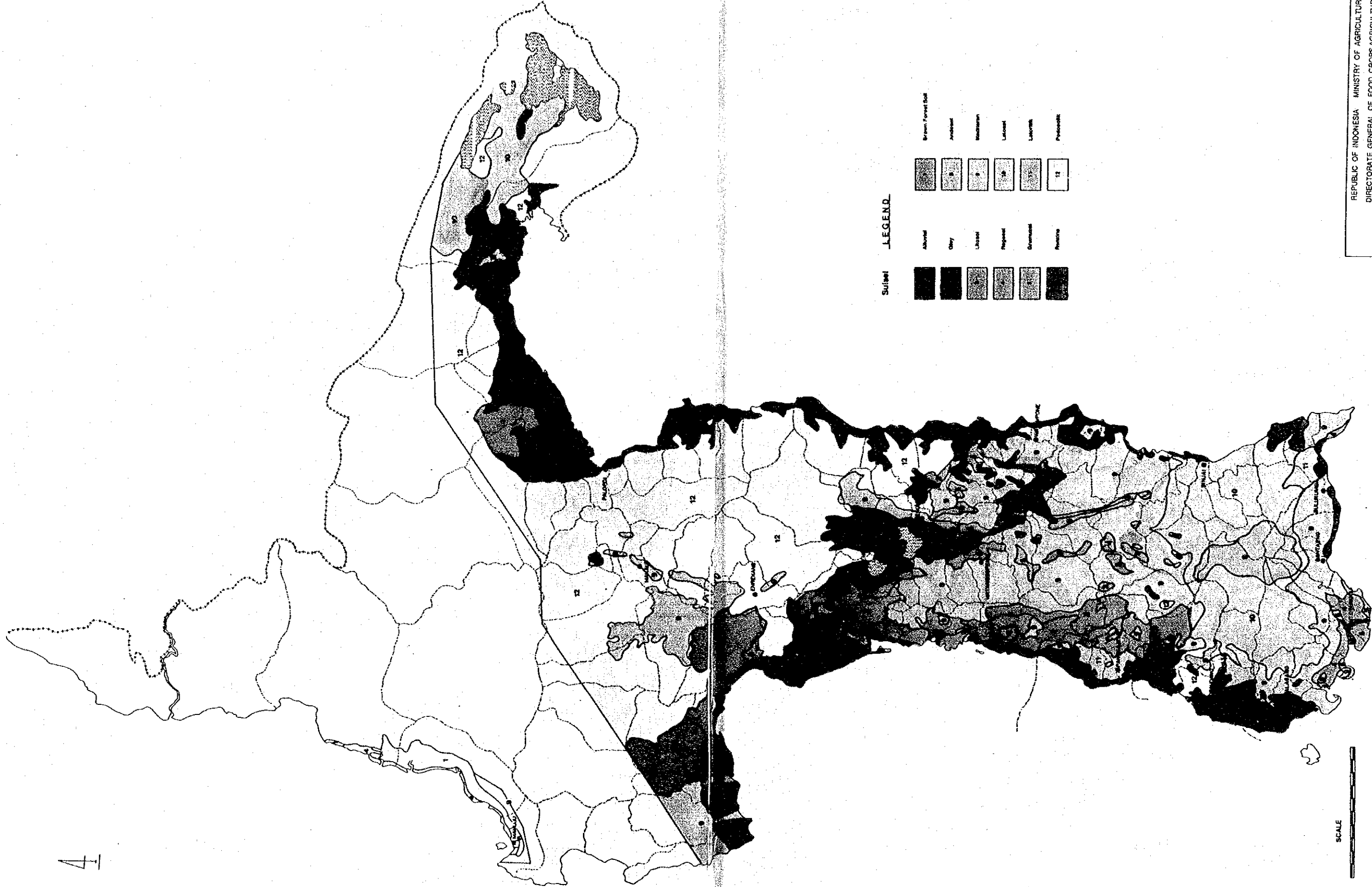


SUMBAWA



REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS AT FARM LEVEL	
LOCATION MAP OF REPRESENTATIVE SCHEMES IN WEST NUSA TENGGARA PROVINCE	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA)	DWG. NO. 4

4



Subsoil

[Dark Grey Box]	Aluvisol
[Dark Grey Box]	Chrysollic
[Dark Grey Box]	Lixisol
[Dark Grey Box]	Regosol
[Dark Grey Box]	Chromosol
[Dark Grey Box]	Podsol

LEGEND

[Dark Grey Box]	Aluvisol
[Dark Grey Box]	Chrysollic
[Dark Grey Box]	Lixisol
[Dark Grey Box]	Regosol
[Dark Grey Box]	Chromosol
[Dark Grey Box]	Podsol

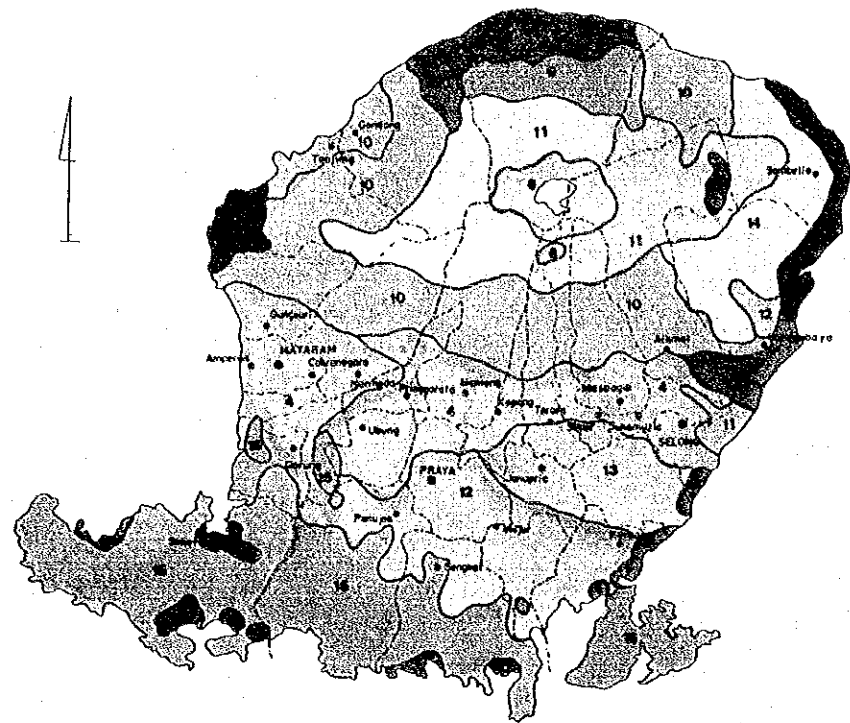
[Dark Grey Box]	Brown Forest Soil
[Dark Grey Box]	Andisol
[Dark Grey Box]	Medisolan
[Dark Grey Box]	Lixisol
[Dark Grey Box]	Lixosol
[Dark Grey Box]	Podsol

SCALE

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 FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT
 IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS
 AT FARM LEVEL

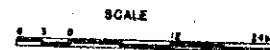
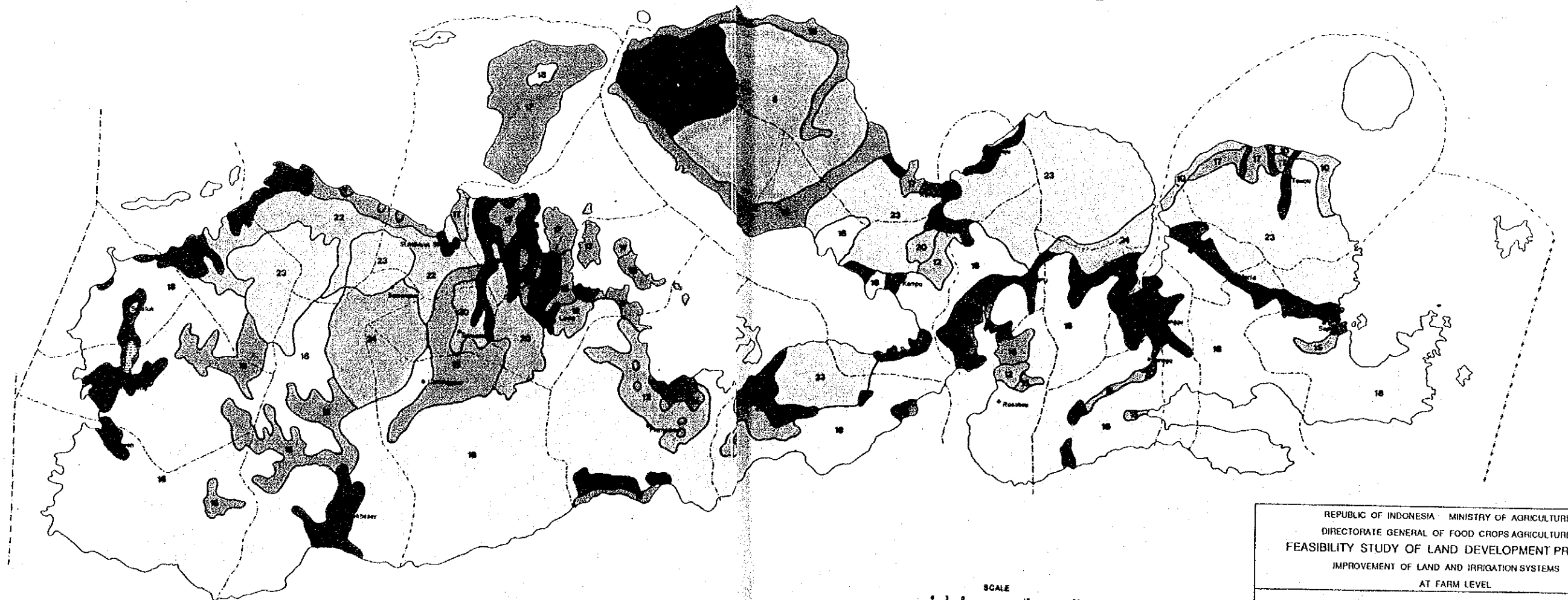
GENERAL SOIL MAP IN SOUTH SULAWESI PROVINCE

JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA) DWG NO. 6



LEGEND

	Gray Alluvial		Dark-Gray Grumusol, Reddish-Brown Mediteran, Litosol
	Brown Alluvial		Brown Mediteran
	Hydromorphic Alluvial		Brown Mediteran, Gray Grumusol, Brown Regosol, Litosol
	Gray Regosol		Brown Regosol, Litosol
	Gray Regosol, Hydromorphic Alluvial		Litosol, Brown Mediteran
	Gray Regosol, Litosol		Litosol, Reddish-Brown Mediteran, Brown Mediteran
	Grayish Regosol, Litosol		Regosol, Litosol
	Grayish-Brown Regosol		Brown Mediteran
	Yellowish-Brown Regosol		Reddish-Brown Mediteran
	Brown Regosol		Brown Mediteran, Reddish-Brown Mediteran
	Brown Forest Soil		Brown Mediteran, Litosol
	Gray Grumusol		Brown Litosol, Reddish-Brown Litosol

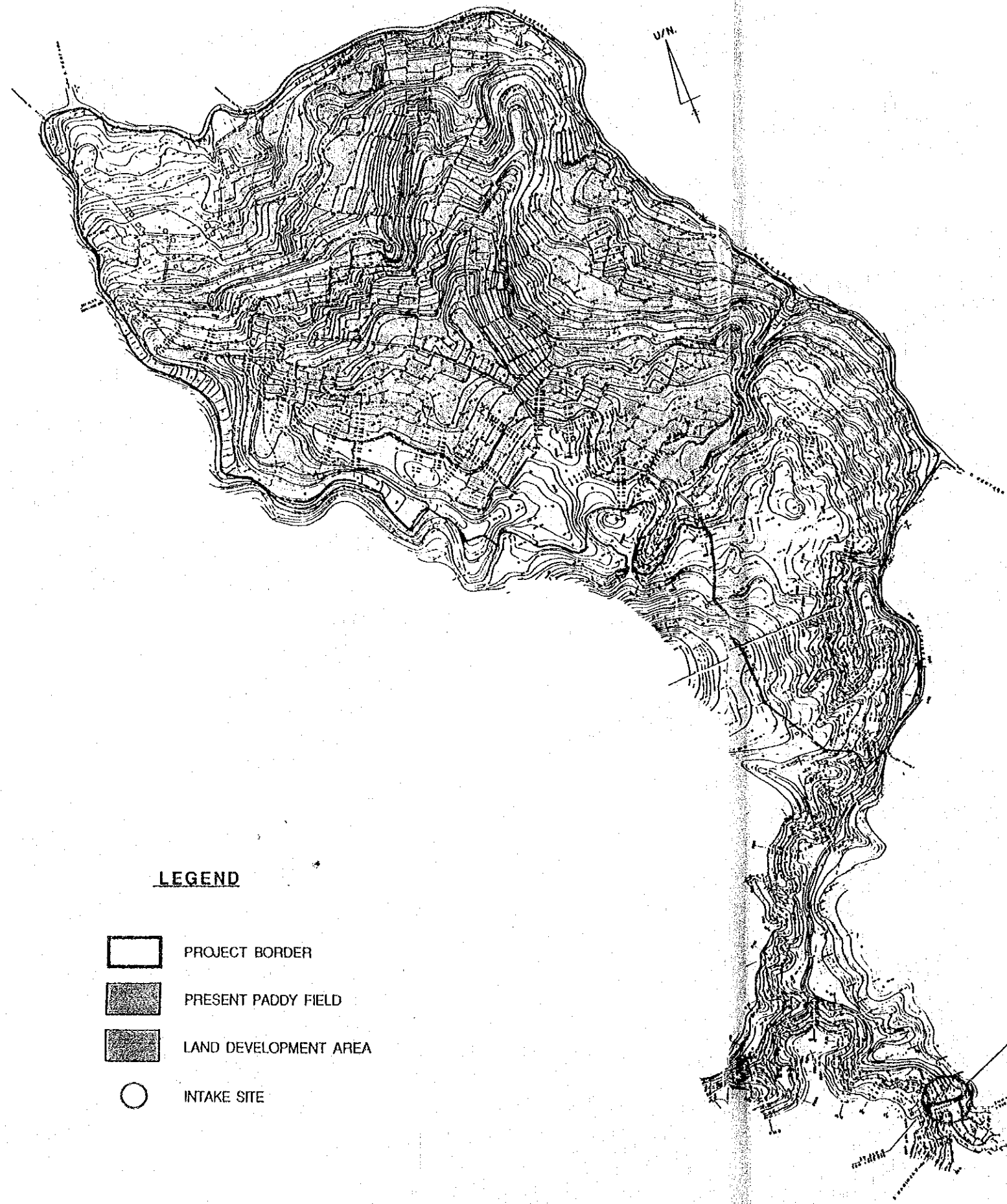


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GENERAL SOIL MAP IN WEST NUSA TENGGARA PROVINCE

JAPAN INTERNATIONAL COOPERATION AGENCY
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
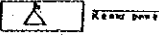

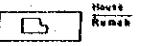

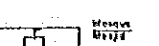

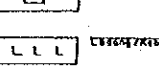

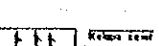

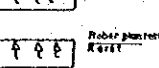







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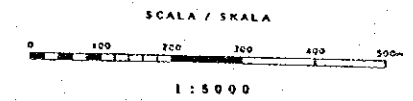


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

**LEGENDA
LEGENDE**

- | | | | |
|---|---------------------------------|---|--------------------------|
|  | Contour line
Garis kontur |  | School
Sekolah |
|  | Flow direction
Arah arus |  | Kerak power station |
|  | River
Sungai |  | House
Rumah |
|  | Secondary canal
Salah munggi |  | Mosque
Masjid |
|  | Dam
Bendungan |  | Waterfall |
|  | Road
Jalan |  | Kerak canal |
|  | Jalan kampung |  | River plantation
KAWI |
|  | Bridge
Jembatan |  | Rice field
Sawah |
|  | Canal
Saluran |  | Swamp
Rawai |
|  | Beach
Tanjung |  | Cemetery
Kuburan |
| | |  | Marshland
Lempang |

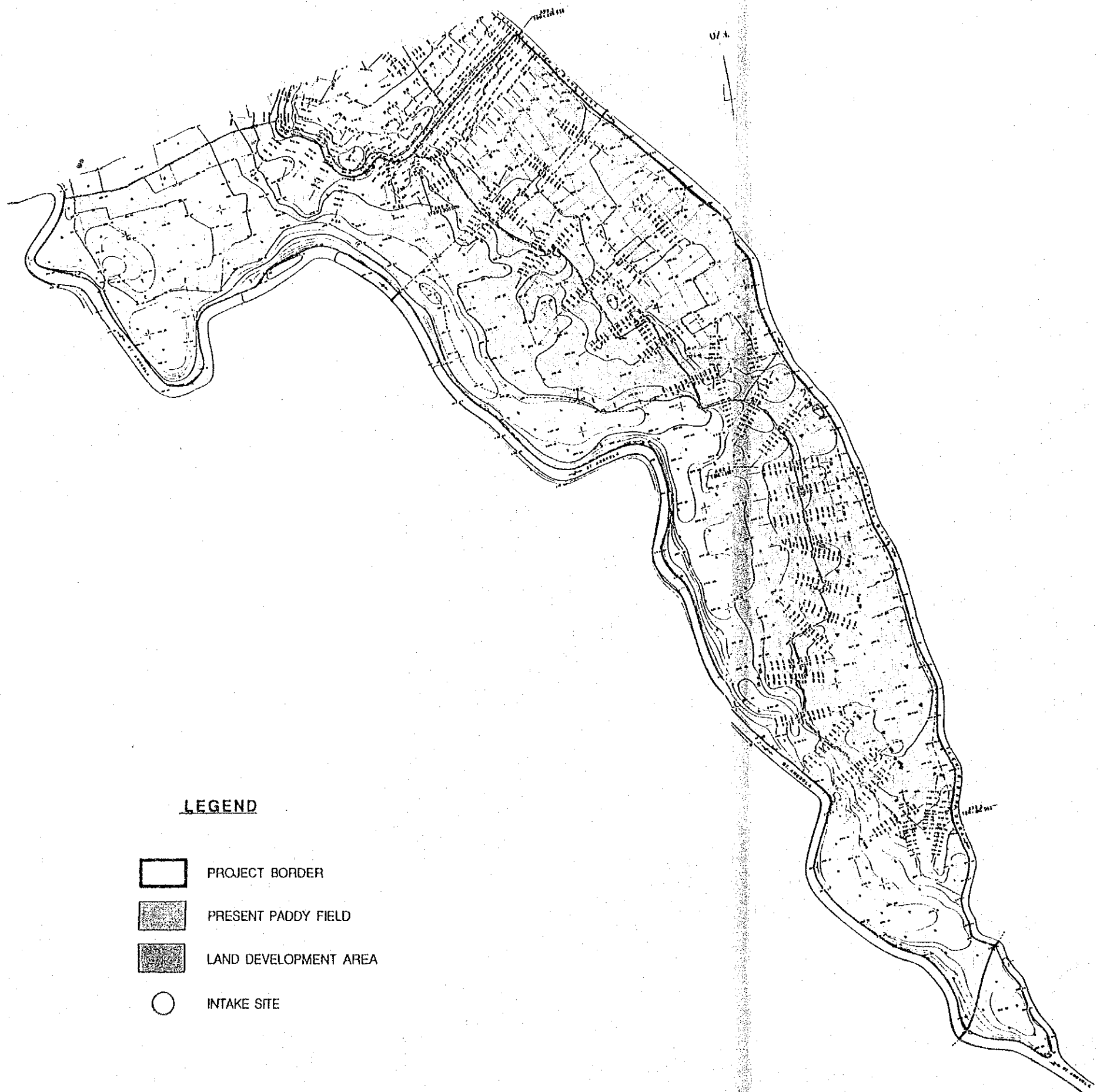


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GENERAL PLAN OF REPRESENTATIVE SCHEMES

SCHEME: SUMBARI PROVINCE: NORTH SUMATRA






















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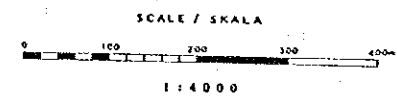


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

**LEGENDA
LEGEND**

- | | | | |
|---|----------------------------------|---|----------------------------|
|  | Contour line
Garis ketinggian |  | Scum
Sesak |
|  | Flow direction
Arah aliran |  | Kampung
Desa |
|  | River
Sungai |  | House
Rumah |
|  | Secondary road
Arah jalan |  | Mosque
Mesjid |
|  | Demarcation
Batas |  | Lumber yard
Gudang kayu |
|  | Road
Jalan |  | Kampung
Desa |
|  | Fence
Pagar |  | Rubber plantation
Karet |
|  | Bridge
Jembatan |  | Ricefield
Sawah |
|  | Canal
Saluran |  | Swamp
Rawe |
|  | Bench mark
Titik simpangan |  | Cemetery
Kuburan |
| | |  | Coastline
Garis pantai |



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 AT FARM LEVEL





GENERAL PLAN OF REPRESENTATIVE SCHEMES
 SCHEME: RAUNING (B) PROVINCE: NORTH SUMATRA

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 TOKYO (JICA) 9
























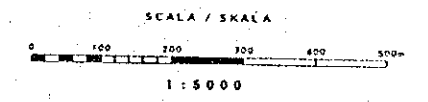
WEIR SITE

LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGENDA
LEGEND

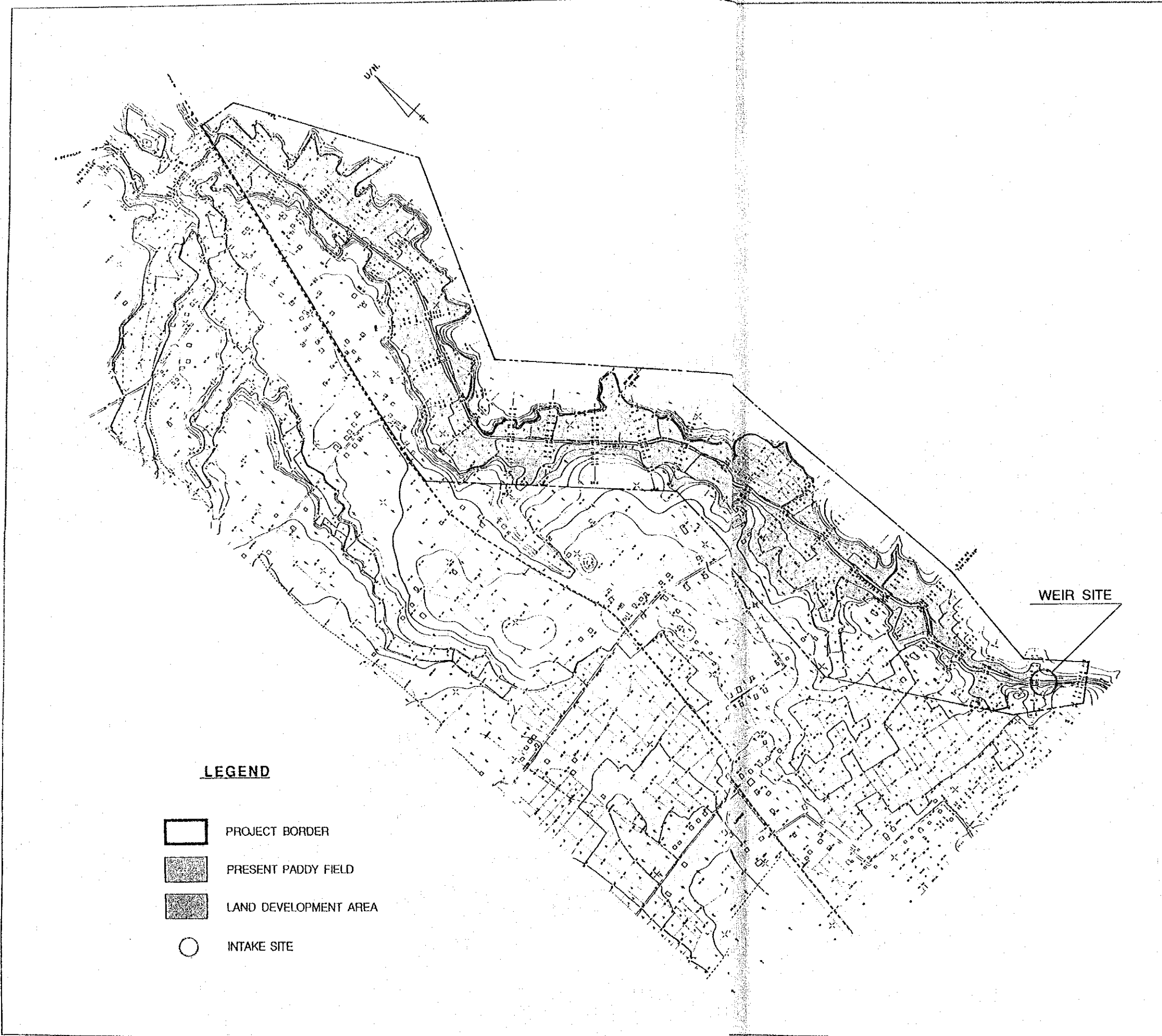
- | | | | |
|---|------------------------------------|---|---------------------------------------|
|  | Contour line
Garis kontur |  | Weir
Bendungan |
|  | Flow direction
Arah Alir |  | KAW (KAWAN) |
|  | River
Sungai |  | House
Rumah |
|  | Secondary canal
Saluran Samping |  | Malay House
Rumah Melayu |
|  | Dam
Tembakung |  | Cemetery
Kuburan |
|  | Road
Jalan |  | Rubber plantation
Perkebunan Karet |
|  | Jalan raya |  | Rubber plantation
Perkebunan Karet |
|  | Bridges
Jembatan |  | Rooftop
Atap |
|  | Canal
Saluran |  | Swamp
Rawai |
|  | Barrage
Tembakung |  | Cemetery
Kuburan |
| | |  | Shaded area
Area yang diarsir |







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FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT
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AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: SUMBUL BERAMPU PROVINCE: NORTH SUMATRA






















JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO (JICA) DWG. NO. 10

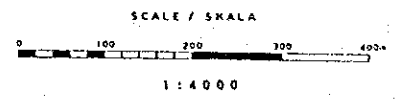


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGENDA
LEGENDA

- | | | | |
|---|---------------------------------|---|----------------------------|
|  | Contour line
Garis kontur |  | School
Sekolah |
|  | Flow direction
Arah Alir |  | River
Sungai |
|  | River
Sungai |  | House
Rumah |
|  | Secondary canal
Arah Saluran |  | Measure
Dams |
|  | Dams
Bendungan |  | Cultivation |
|  | Road
Jalan |  | Kampung |
|  | Jalan |  | Rubber plantation
Karet |
|  | Bridges
Jembatan |  | Ricefield
Sawah |
|  | Canal
Saluran |  | Swamp
Rawai |
|  | Black Mark
Tanda Hitam |  | Boundary
Batas |
| | |  | Ditch
Saluran |



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 AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
 SCHEME: SIDOMUKTI PROVINCE: NORTH SUMATRA





JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO (JICA) DWG. NO. 11

WEIR SITE





















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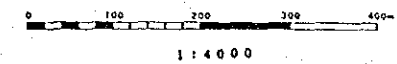
LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGENDA
LEGE NO

- | | | | |
|---|-------------------------------------|---|----------------------------|
|  | Contour line
Garis kontur |  | School
Sekolah |
|  | River
Sungai |  | House
Rumah |
|  | Secondary canal
Saluran sekunder |  | Mosque
Masjid |
|  | Dam
Tembak |  | Cemetery
Kuburan |
|  | Road
Jalan |  | Rice field
Sawah |
|  | Zoning
Zonasi |  | Rubber plantation
Karet |
|  | Bridge
Jembatan |  | Market
Pasar |
|  | Canal
Saluran |  | Settlement
Kampung |
|  | Bank area
Tebing |  | Cemetery
Kuburan |
|  | Open area
Lapangan |  | Gully
Gorong-gorong |

SCALE / SKALA



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AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES

SCHEME: AEK PALIA PROVINCE: NORTH SUMATRA

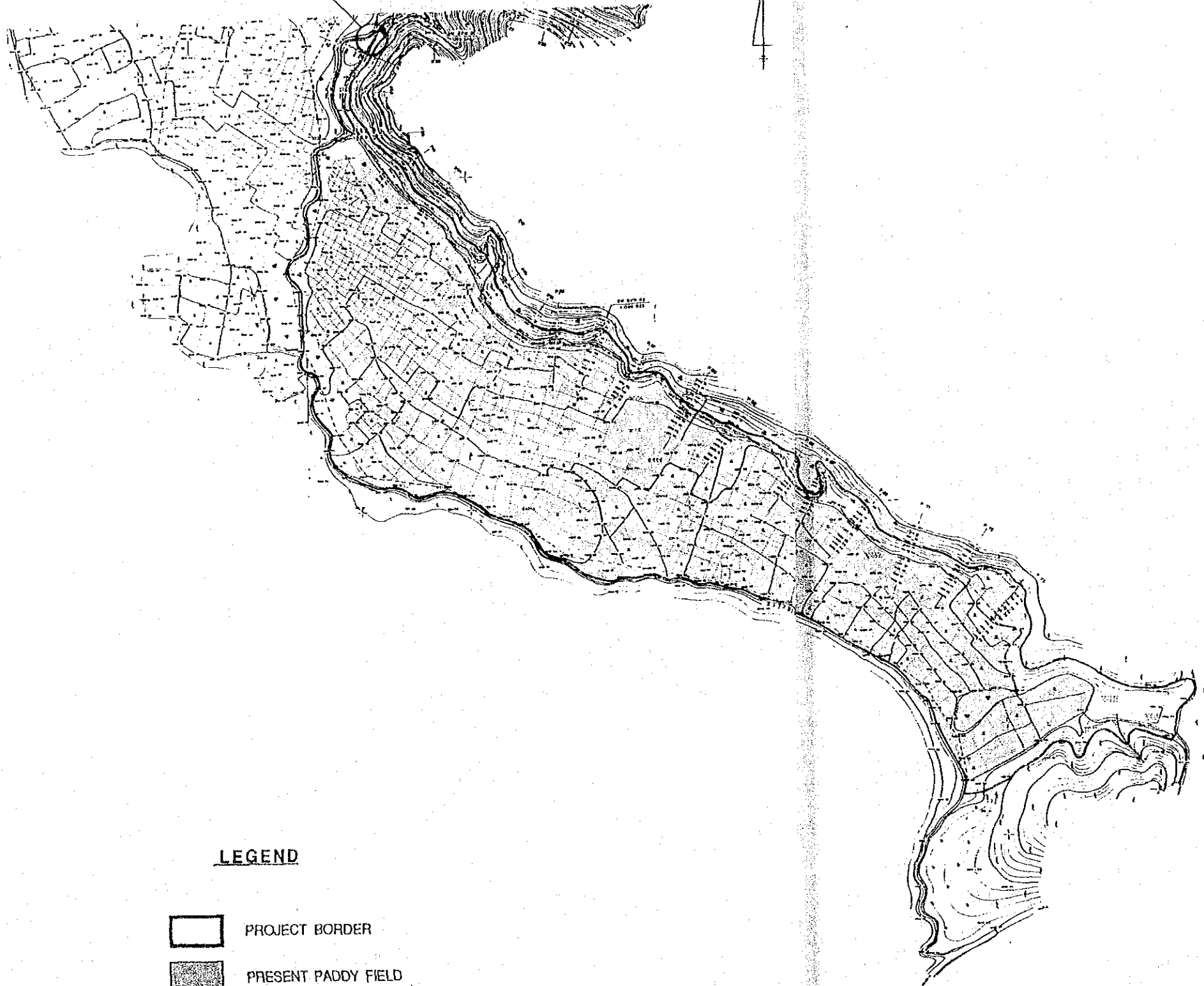
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO (JICA)

DWG. NO.
12

LEGENDA
LEGEND

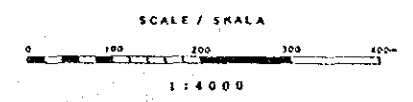
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	Flow direction Arah Alir		Weir Benteng
	River Sungai		House Rumah
	Secondary canal Saluran sekunder		Market Pasar
	Dam Bendungan		Cemetery Kuburan
	Road Jalan		Rice field Sawah
	Jalan		Rubber plantation Karet
	Bridge Jembatan		Rice field Sawah
	Canal Saluran		Sump Sumbu
	Black mark Tanda hitam		Cemetery Kuburan
			Cleared land Lahan kosong

WEIR SITE



LEGEND

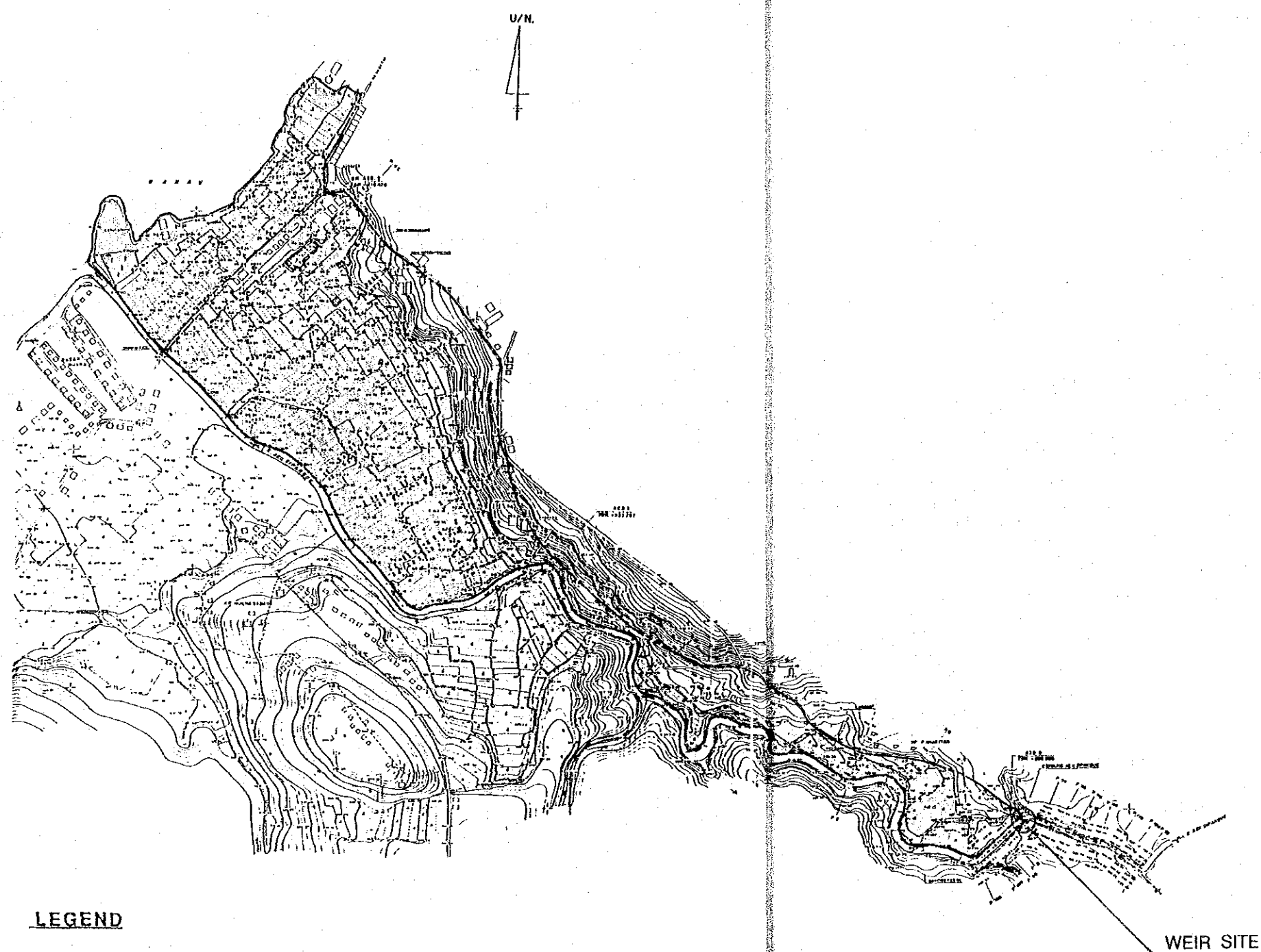
	PROJECT BORDER
	PRESENT PADDY FIELD
	LAND DEVELOPMENT AREA
	INTAKE SITE







REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE
DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS
AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: PANGAMBATAN B. PROVINCE: NORTH SUMATRA






















JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO (JICA) DWG. NO. 13

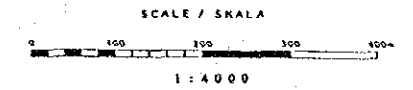


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGENDA
LEGEND

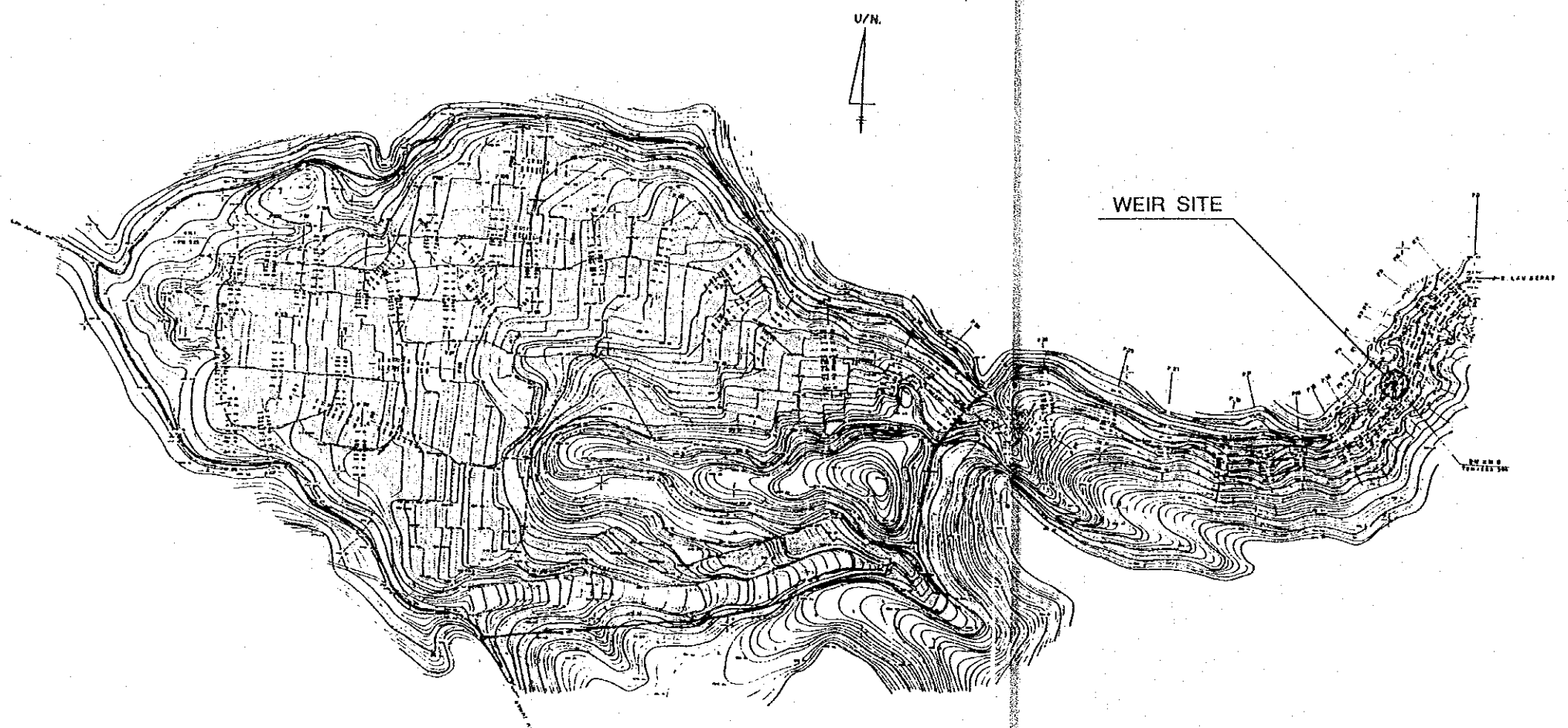
- | | | | |
|---|----------------------------------|---|-------------------------|
|  | Contour line
Garis ketinggian |  | Weir
Bendungan |
|  | Flow direction
Arah Aliran |  | Rear plantation
Rear |
|  | River
Sungai |  | House
Rumah |
|  | Secondary canal
Arah sungai |  | Mosque
Mesjid |
|  | Dam
Bendungan |  | Cemetery
Kuburan |
|  | Road
Jalan |  | Rice field
Sawah |
|  | Jalan |  | Rear plantation
Rear |
|  | Bridge
Jembatan |  | Rice field
Sawah |
|  | Canal
Sungai |  | Swamp
Rawit |
|  | Beach
Tanjung |  | Cemetery
Kuburan |
| | |  | Ground level
Tinggi |







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 AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
 SCHEME: AEK SIPARBUE PROVINCE: NORTH SUMATRA





















JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO (JICA) DWG. NO. 14

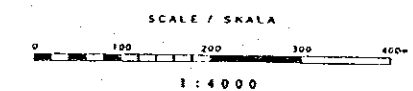


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

**LEGENDA
LEGEND**

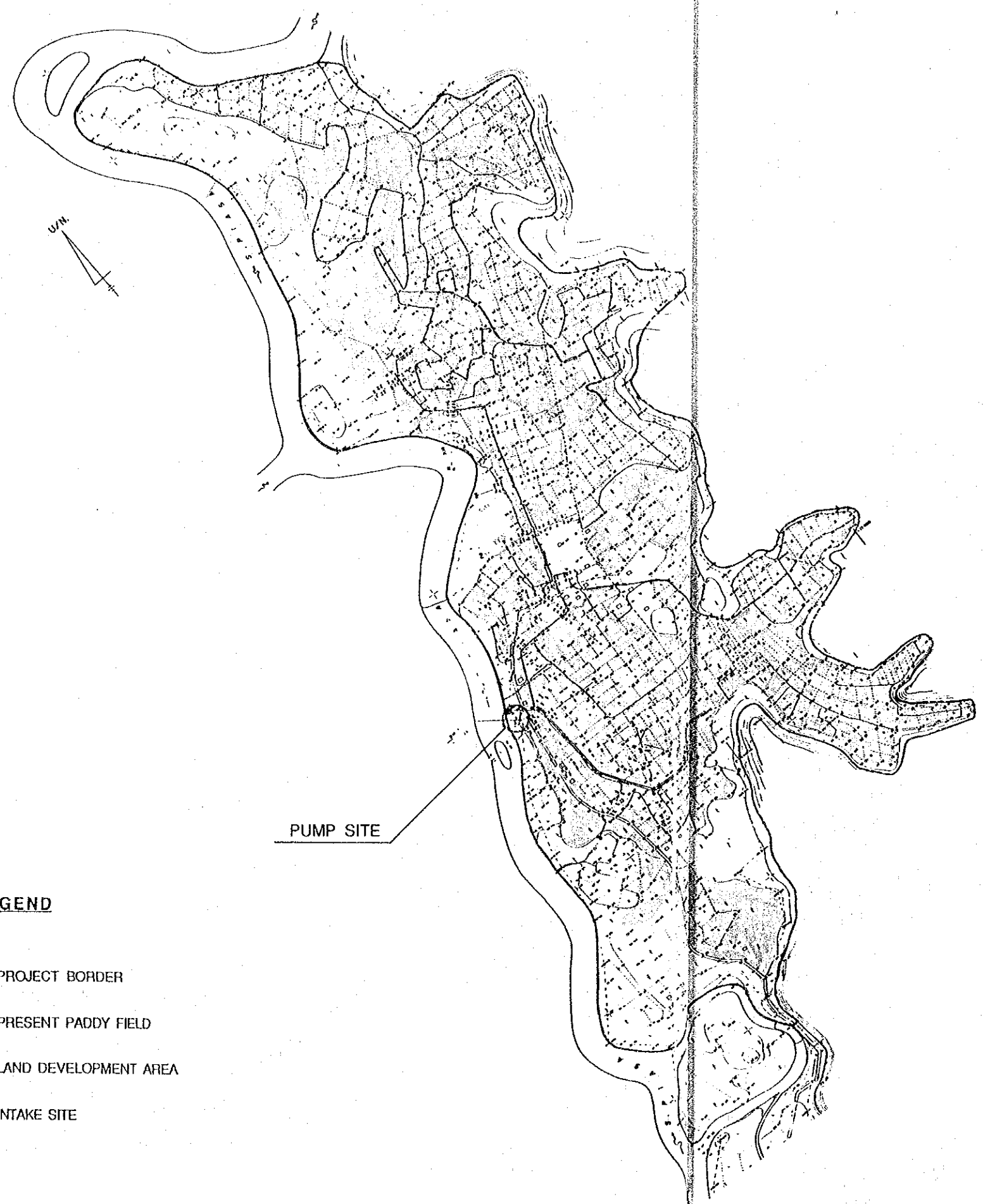
- | | | | |
|---|----------------------------------|---|-------------------|
|  | Contour line
Garis ketinggian |  | Sekolah |
|  | Flow direction
Arah Alir |  | Rural settlement |
|  | River
Sungai |  | Rumah |
|  | Secondary canal
Arah Sungai |  | Mosque |
|  | Demarcation
Batas |  | Cemetery |
|  | Road
Jalan |  | Rubber plantation |
|  | Zoning symbol |  | Rice field |
|  | Bridge
Jembatan batu/besi |  | Swamp |
|  | Canal
Saluran |  | Canary |
|  | Bench Mark
Tinggi |  | Overland flow |







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 AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
 SCHEME: KUTAMALE PROVINCE: NORTH SUMATRA





















JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO (JICA) DWG. NO. 15

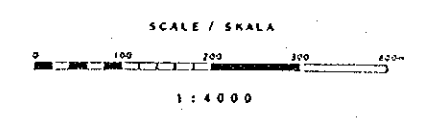


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

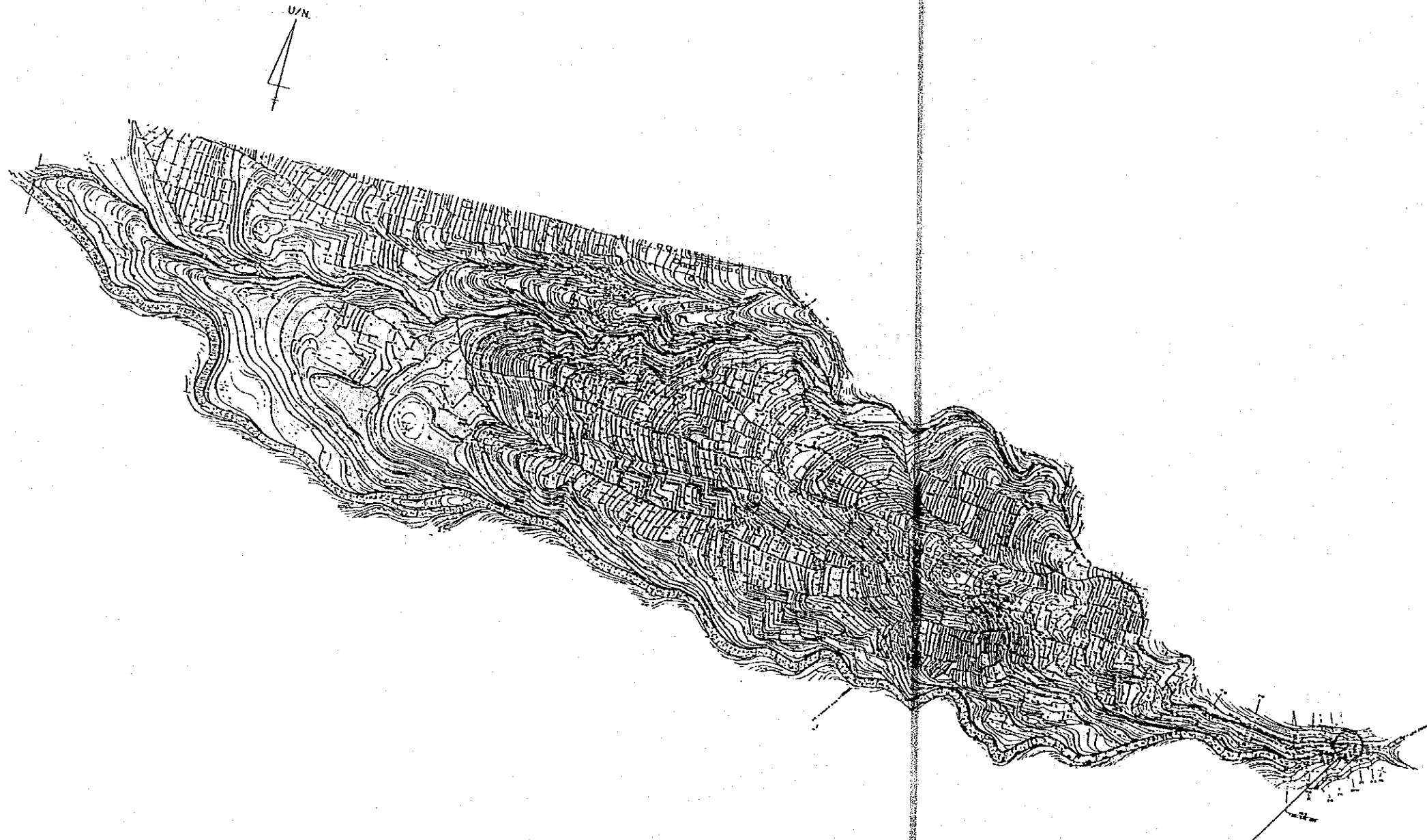
LEGENDA
LEGENE

- | | | | |
|---|-------------------------------------|---|----------------------------|
|  | Contour line
Garis ketinggian |  | Sulfur |
|  | Flow direction
Arah arus |  | Kampung pemukiman |
|  | River
Sungai |  | Rumah |
|  | Secondary canal
Saluran sekunder |  | Masjid |
|  | Demarcation
Batas |  | Kuburan |
|  | Road
Jalan |  | Kampung |
|  | Jalan raya |  | Rubber plantation
Karet |
|  | Bridges
Jembatan |  | Rice field
Rawa |
|  | Canal
Saluran |  | Cemetery
Kuburan |
|  | Basin
Tampungan |  | Gravel
Pasir |







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 AT FARM LEVEL






















GENERAL PLAN OF REPRESENTATIVE SCHEMES
 SCHEME: ASAHAN VIII PENGAJIAN PROVINCE: NORTH SUMATRA

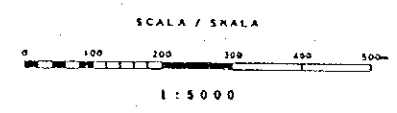


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

**LEGENDA
LEGEND**

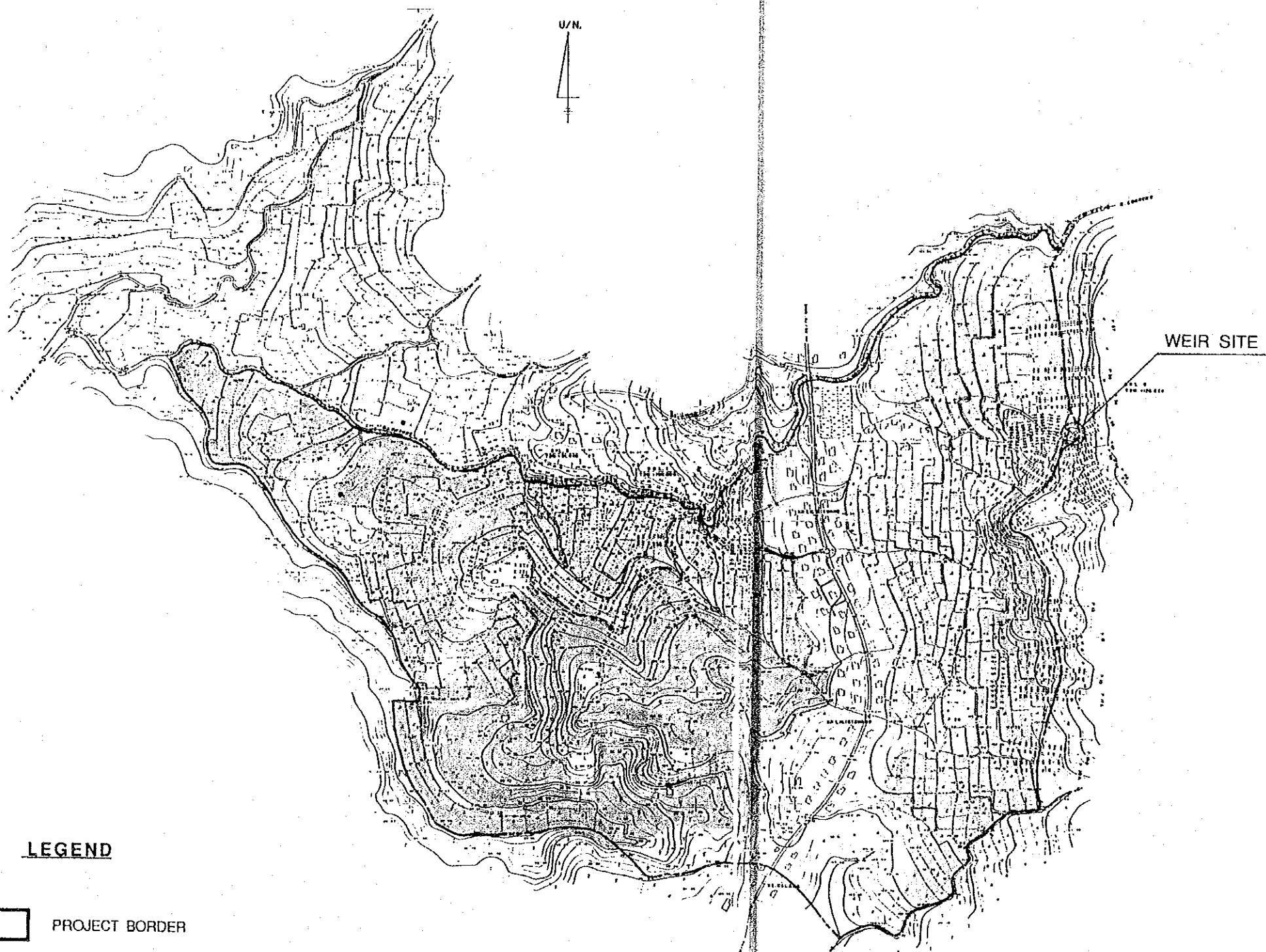
- | | | | |
|---|-------------------------------------|---|----------------------------|
|  | Contour line
Garis kontur |  | Weir
Bendungan |
|  | Flow direction
Arah arus |  | River
Sungai |
|  | River
Sungai |  | House
Rumah |
|  | Secondary canal
Saluran sekunder |  | Mosque
Masjid |
|  | Drainage
Saluran |  | Cemetery
Kuburan |
|  | Road
Jalan |  | Kampung
Kampung |
|  | Water channel
Saluran air |  | Rubber plantation
Karet |
|  | Bridge
Jembatan |  | Ricefield
Sawah |
|  | Canal
Saluran |  | Swamp
Rawai |
|  | Beach mark
Garis pantai |  | Cemetery
Kuburan |
| | |  | Ricefield
Sawah |







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 AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
 SCHEME: AEK SIHIM PROVINCE: NORTH SUMATRA

















JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO (JICA) DWG. NO. 17



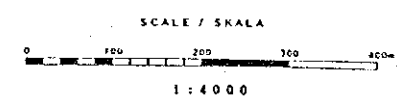
LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGEND
LEGENDA

-  Contour line
Garis ketinggian
-  School
Sekolah
-  Triangulation point
Titik poligon
-  Road
Jalan
-  House
Rumah
-  Mosque
Masjid
-  River
Sungai
-  Canal
Saluran
-  Flow direction
Arah aliran
-  Rice field
Ricek
-  Cultivated
Gorong gorang
-  Coconut tree
Pohon kelapa
-  Non irrigated farming
Ladang
-  Horticulture
Tebang
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air

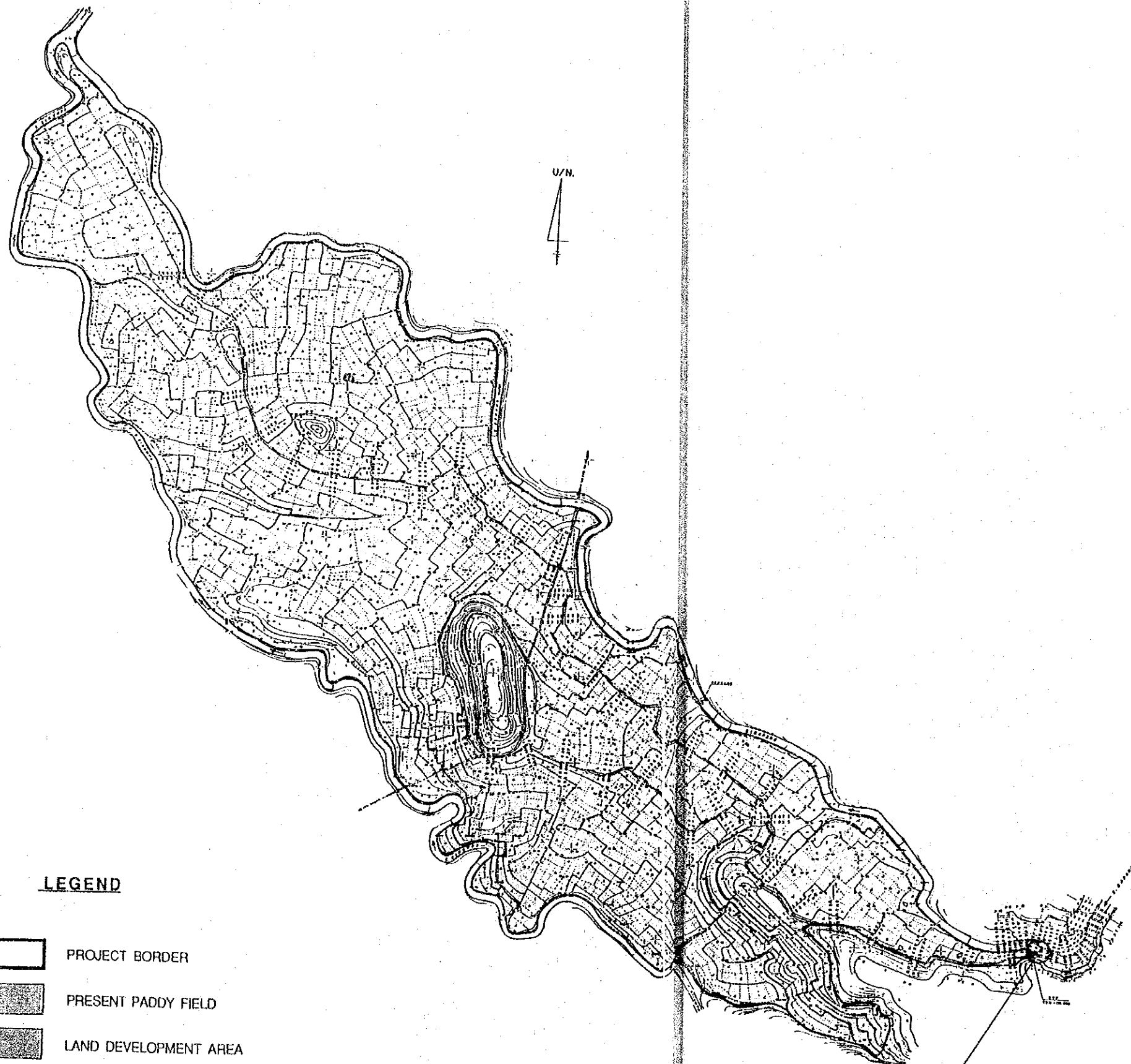
WEIR SITE







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AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: KALU PROVINCE: SOUTH SULAWESI

















JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO (JICA) DWG. NO. 18

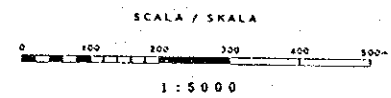


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGEND
LEGENDA

-  Contour line
Garis ketinggian
-  School
Sekolah
-  Traveller point
Titik istirahat
-  Road
Jalan
-  House
Rumah
-  Mosque
Masjid
-  Rice field
Sawah
-  Canal
Saluran
-  Flood protection
Arca banjir
-  Rice field
Sawah
-  Cultivation
Budidaya
-  Cane field
Pohon kelapa
-  Non-irrigated farming
Ladang
-  Horticulture
Tegalan
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air



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AT FARM LEVEL





GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: PAJJENGE PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO (JICA) DWG. NO. 10



















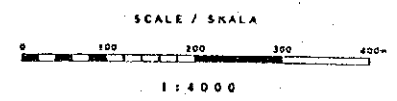
WEIR SITE

LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

**LEGEND
LEGENDA**

-  Contour line
Garis ketinggian
-  School
Sekolah
-  Traverse point
Titik poligon
-  Road
Jalan
-  House
Rumah
-  Mangrove
Mangrove
-  River
Sungai
-  Canal
Saluran
-  Flow direction
Arah aliran
-  Rice field
Rawa
-  Culvert
Borang gantung
-  Coconut trees
Pohon kelapa
-  High brigated farming
Ladang
-  Horticulture
Tegalan
-  Mixed agriculture
Kebun campuran
-  Waterpump
Pompa air


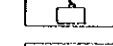

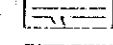
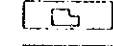
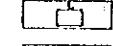
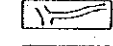
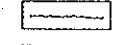
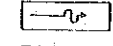
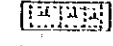
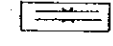
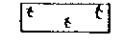
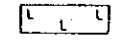
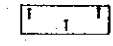
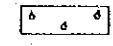
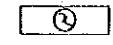


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AT FARM LEVEL

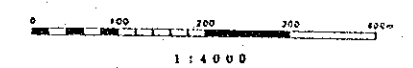
GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: KADIENG (1/2) PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY
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LEGEND
LEGENDA

-  Contour line
Garis kontur
-  School
Sekolah
-  Triangle point
Titik poligon
-  Road
Jalan
-  House
Rumah
-  Mosque
Masjid
-  River
Sungai
-  Canal
Saluran
-  Flow direction
Arah aliran
-  Rice field
Sawah
-  Culvert
Gorong gorong
-  Coconut tree
Pohon kelapa
-  Non irrigated farming
Ladang
-  Morticulture
Tegalan
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air

SCALE / SKALA



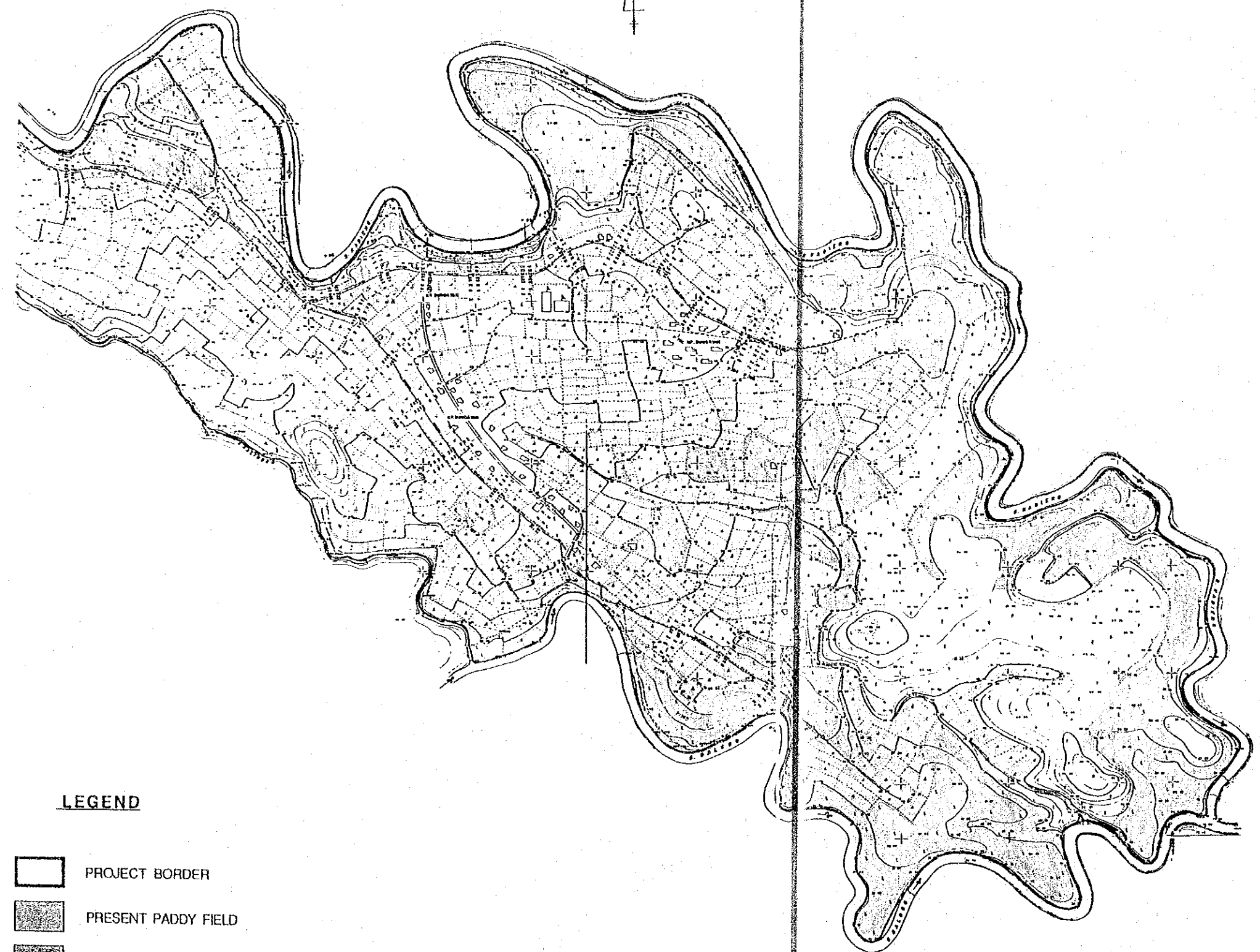
REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE
DIRECTORATE GENERAL OF FOOD CROPS AGRICULTURE
FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS
AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: KADIENG (2/2) PROVINCE: SOUTH SULAWESI





JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO (JICA)

DWG. NO.
21

U/N.

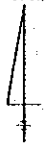


LEGEND





-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

WEIR SITE

















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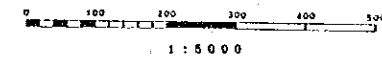
LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGEND
LEGENDA

-  Contour line
Garis ketinggian
-  School
Sekolah
-  Electric post
Tiang tenaga
-  Road
Jalan
-  House
Rumah
-  Mosque
Masjid
-  River
Sungai
-  Canal
Saluran
-  Flow direction
Arah aliran
-  Rice field
Rawa
-  Culvert
Salang gerbang
-  Concrete bridge
Ponsol beton
-  Non-irrigated farmland
Ladang
-  Morticulture
Tegalan
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air

SCALE / SKALA



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GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: KAINDI PROVINCE: SOUTH SULAWESI

JAPAN INTERNATIONAL COOPERATION AGENCY
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
















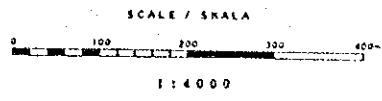
WEIR SITE

LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGEND
LEGENDA

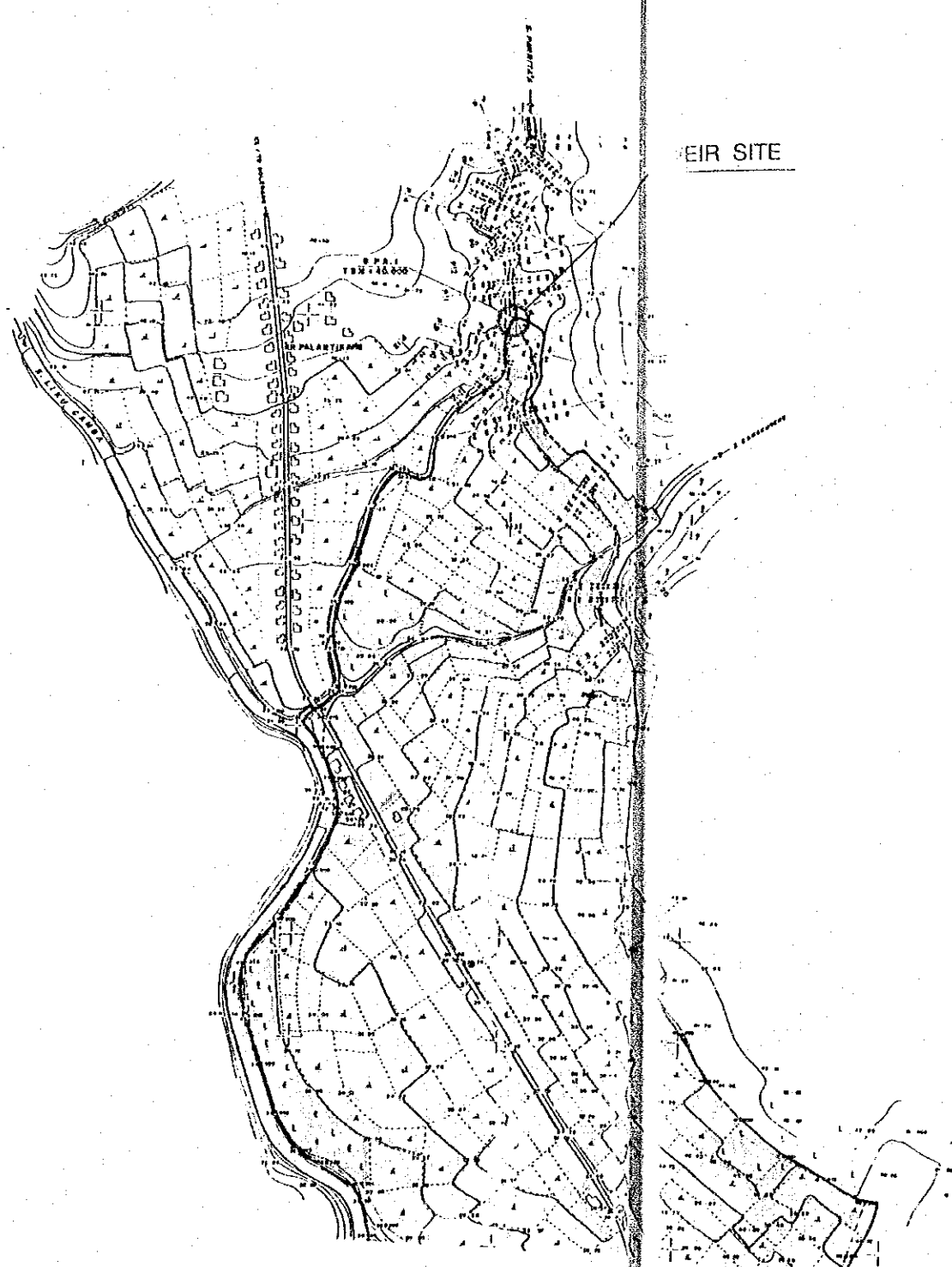
-  Contour line
Garis ketinggian
-  School
Sekolah
-  Traverse point
Titik perigrahan
-  Road
Jalan
-  House
Rumah
-  Mosque
Mesjid
-  River
Sungai
-  Canal
Saluran
-  Flow direction
Arah aliran
-  Rice field
Rawa
-  Cultures
Gorong gorong
-  Coconut trees
Pohon kelapa
-  Non irrigated farming
Ladang
-  Horticulture
Tegalan
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air







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AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: LEMBONG BATA PROVINCE: SOUTH SULAWESI

















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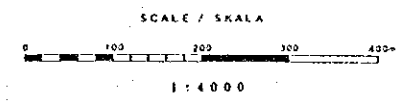
LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGENDA
LEGENDA

-  Contour line
Garis ketinggian
-  School
Sekolah
-  Transfer post
Titik peragaan
-  Road
Jalan
-  House
Rumah
-  Mosque
Mesjid
-  River
Sungai
-  Canal
Saluran
-  Fine drainage
Arah aliran
-  Rice field
Sawah
-  Cultured
Gorong gorog
-  Coconut tree
Pohon kelapa
-  Non irrigated farming
Ladang
-  Multiculture
Tegalan
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air

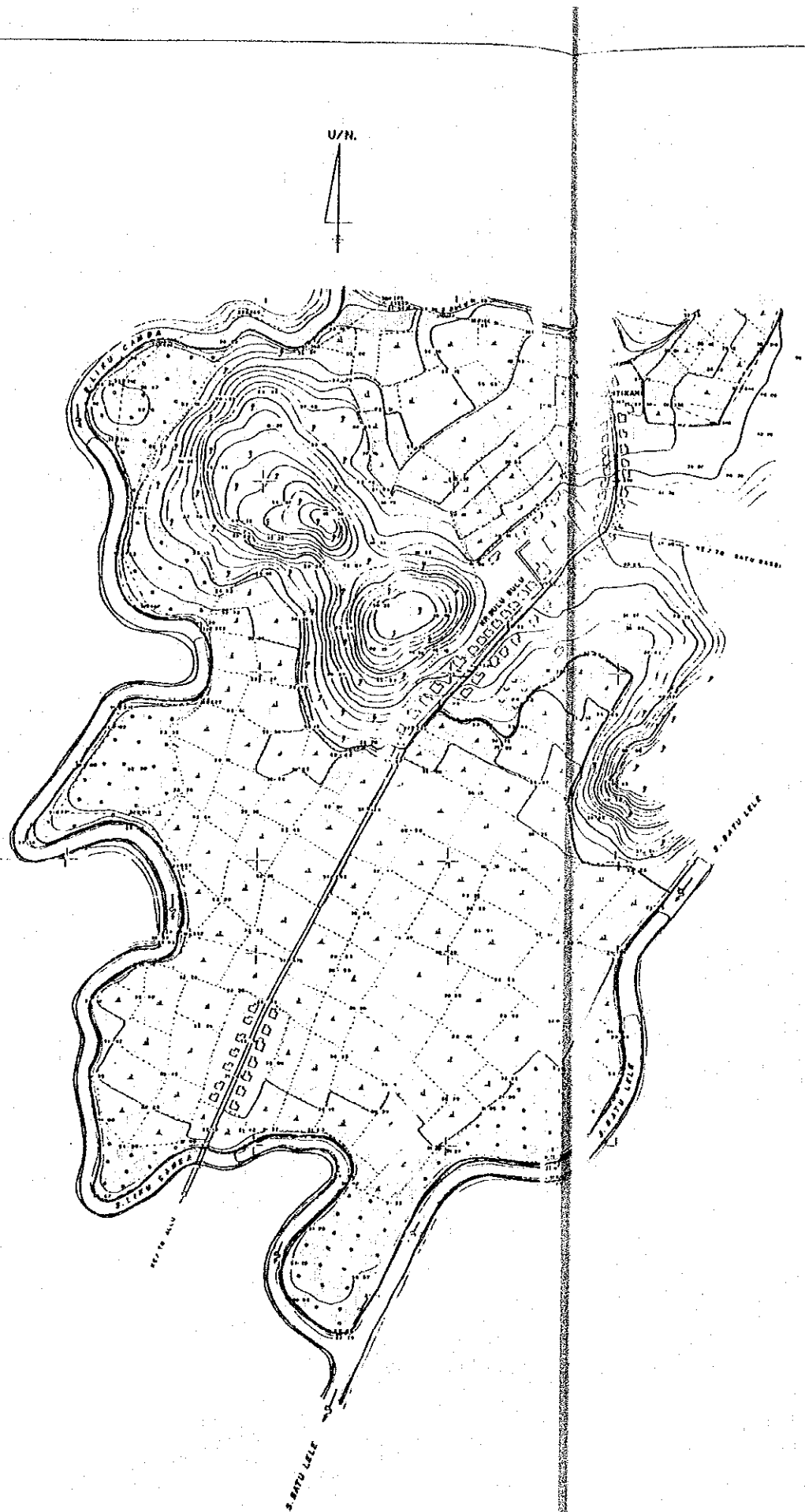
AIR SITE







REPUBLIC OF INDONESIA MINISTRY OF AGRICULTURE
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AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: PANRITA (1/2) PROVINCE: SOUTH SULAWESI

















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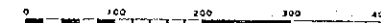
LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

LEGEND
LEGENDA

-  Contour line
Garis ketinggian
-  School
Sekolah
-  Traversing post
Titik poligon
-  Road
Jalan
-  House
Rumah
-  Mosque
Mesjid
-  River
Sungai
-  Canal
Saluran
-  Flow structure
Arch structure
-  Rice field
Sawah
-  Coconut grove
Jarak
-  Coconut tree
Pohon kelapa
-  New irrigated farming
Ladang
-  Horticulture
Tegalan
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air

SCALE / SKALA



1:4000

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AT FARM LEVEL

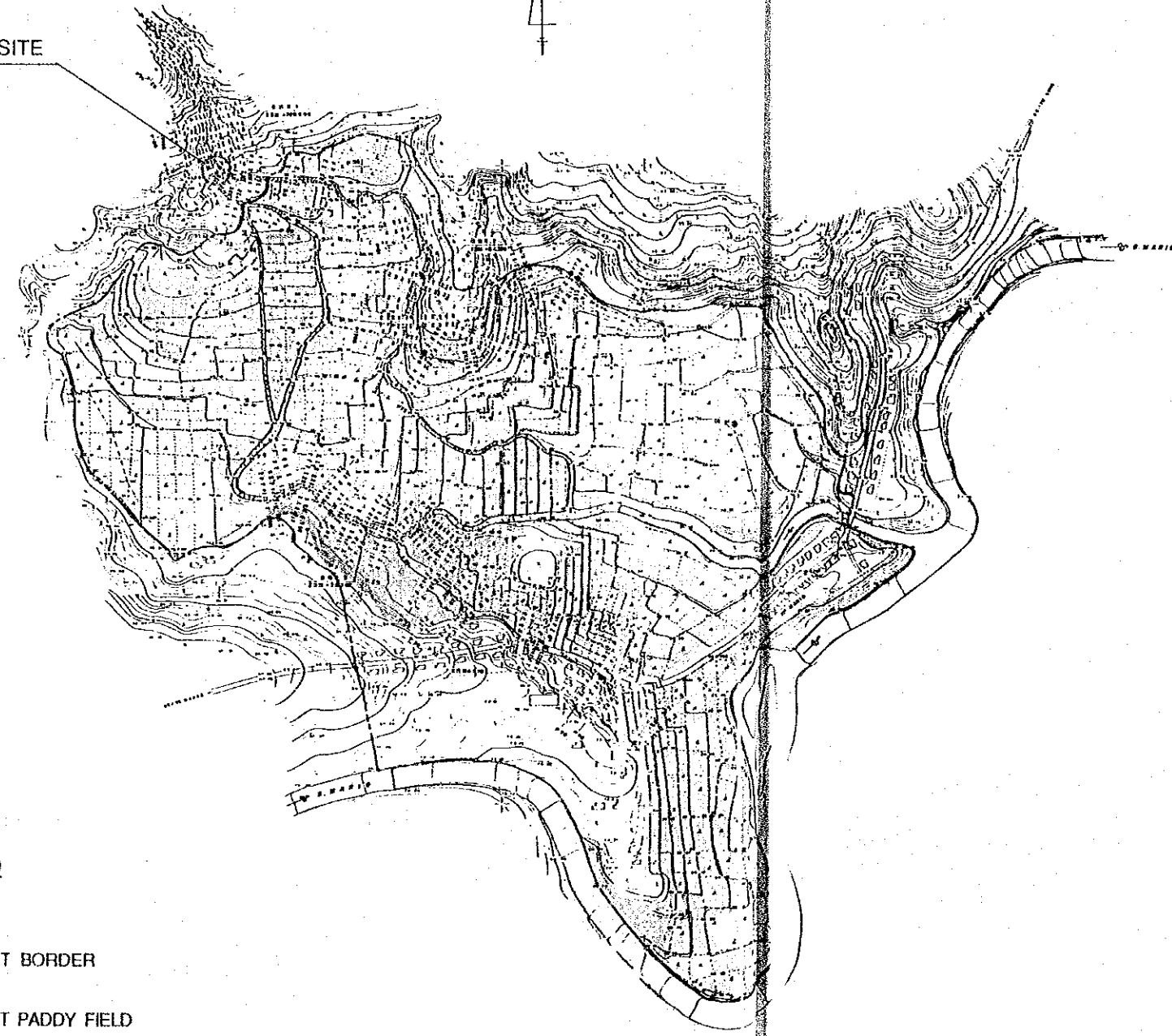
GENERAL PLAN OF REPRESENTATIVE SCHEMES

SCHEME: PANRITA (2/2) PROVINCE: SOUTH SULAWESI





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DWG. NO.
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













WEIR SITE

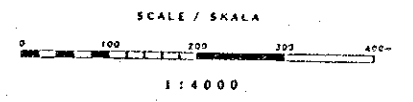


LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

**LEGEND
LEGENDA**





-  Contour line
Garis ketinggian
-  School
Sekolah
-  Traverse point
Titik poligon
-  Road
Jalan
-  House
Rumah
-  Mosque
Mesjid
-  River
Sungai
-  Canal
Saluran
-  Flow direction
Arah aliran
-  Rice field
Sawah
-  Cultured
Terang terdug
-  Coconut trees
Pohon kelapa
-  Non irrigated farming
Ladang
-  Horticulture
Taman
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air



















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FEASIBILITY STUDY OF LAND DEVELOPMENT PROJECT
IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS
AT FARM LEVEL

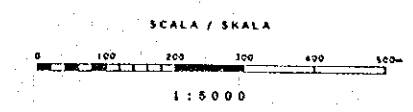
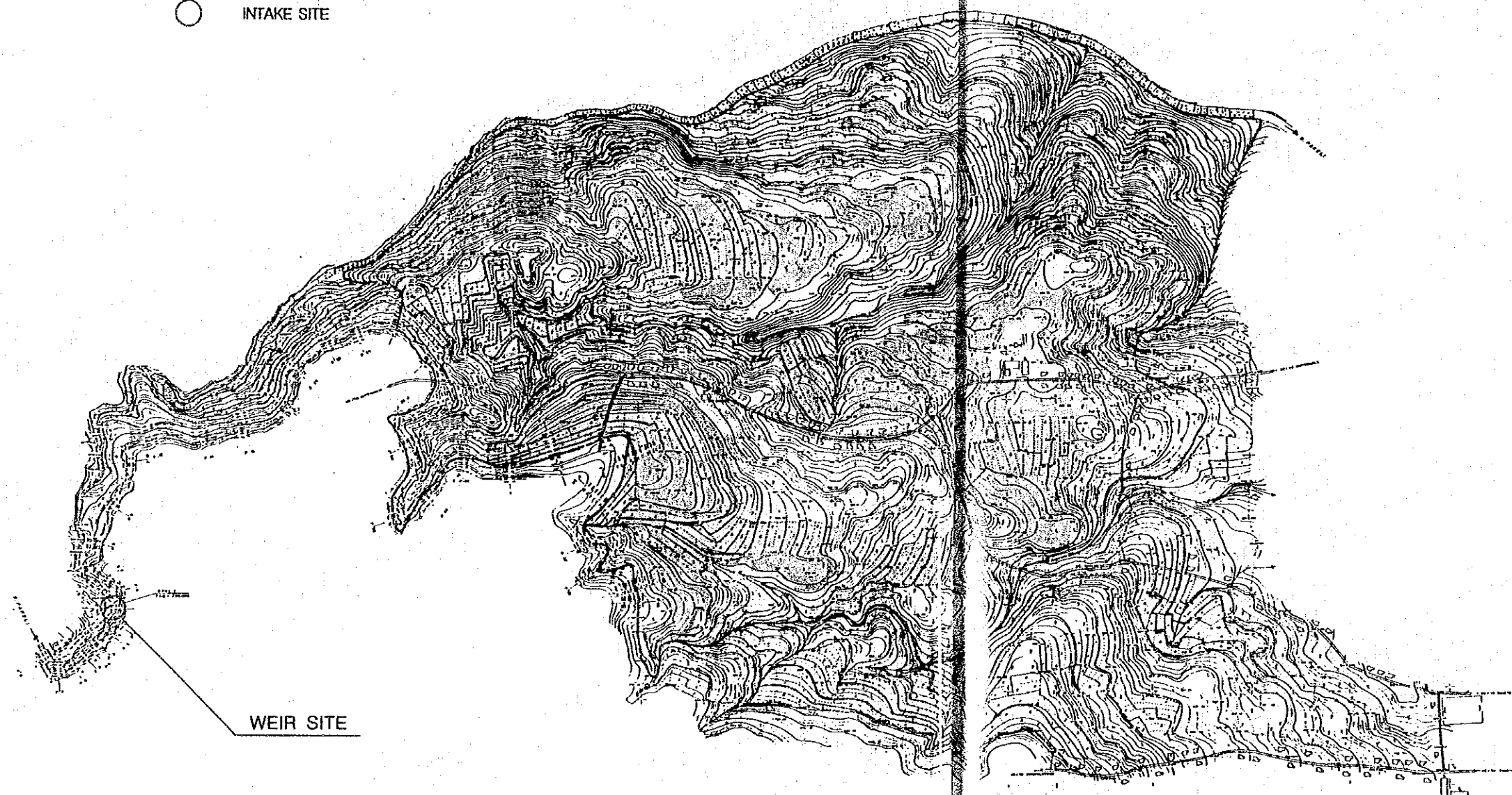
GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: MARIO 1-III PROVINCE: SOUTH SULAWESI

LEGEND

-  PROJECT BORDER
-  PRESENT PADDY FIELD
-  LAND DEVELOPMENT AREA
-  INTAKE SITE

**LEGEND
LEGENDA**

-  Contour line
Garis ketinggian
-  School
Sekolah
-  Traverse point
Titik pengukur
-  Road
Jalan
-  House
Rumah
-  Mosque
Mesjid
-  River
Sungai
-  Canal
Saluran
-  Irrigation ditch
Arah aliran
-  Rice field
Rawa
-  Culvert
Salang gantung
-  Concrete structure
Papan ketapa
-  Non-irrigated farming
Ladang
-  Horticulture
Tepukan
-  Mixed agriculture
Kebun campuran
-  Water pump
Pompa air



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IMPROVEMENT OF LAND AND IRRIGATION SYSTEMS
AT FARM LEVEL

GENERAL PLAN OF REPRESENTATIVE SCHEMES
SCHEME: PAKELI I PROVINCE: SOUTH SULAWESI

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