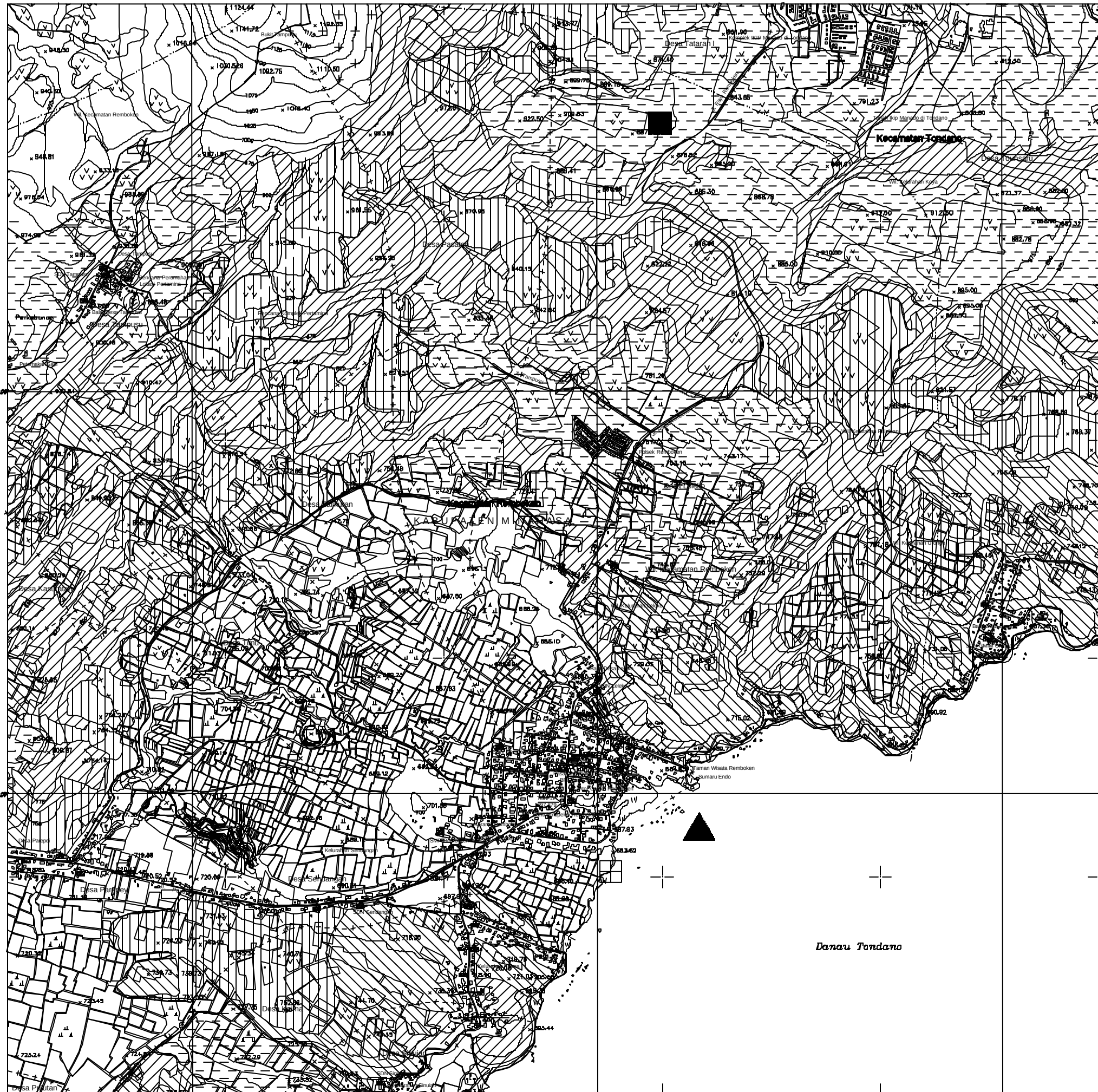




INDEX MAP

LEGEND

WATERSHED CONSERVATION PLAN

FORESTRY	AGRICULTURE / AGROFORESTRY	
Protection Forest	AGF - I / IM	
Community Forest	AGF - II / IM	
Nursery	AGF - III / IM	
Forest Guard Station	UF / IM	
EROSION CONTROL FACILITY		
Rehabilitation of Existing Earth Fill Check Dam	IF	
Rehabilitation of Existing Gabion Box Check Dam	Non-Agricultural Area	
Check Dam	MONITORING SYSTEM	
River Bed Protection Works	Soil Erosion Monitoring Station	
River Bank Protection Works	Rainfall Monitoring Station	
Slope Protection Works for Hillside	Flow Rate Monitoring Station	
Slope Protection Works for Road	Water Quality Monitoring Station	
	Bench Mark	

TOPOGRAPHICAL MAP

Existing Triangulation Point	Electric Power Line
Existing Bench Mark	Jalur Tegangan Tinggi
Bench Mark	Cutting and Embankment
Spot Height	Kerukan dan Timbunan
House / Building	Swamp
Gasoline Pump	Rawa
Road	Paddy field
Path	Sawah
Bridge	Boundary of Vegetation
Station	Batas Tanaman
Kecamatan Boundary	Field
Kelurahan Boundary	Ladang
	Forest
	Hutan
	Grass
	Rumpun
	Tree
	Pohon
	Water hole
	Lubang Air
	Sluice
	Pintu Air
	Pipe Culvert
	Gorong - gorong
Land Slide	Line Contour
a. River / Sungai	Garis Kontur
b. Rivulet / Anak Sungai	Pond, lake
c. Direction / Arah Sungai	Kolam, danau
	Sand
	Pasir

Scale 1 : 10,000

0 200 400 600 800 1000 Meter

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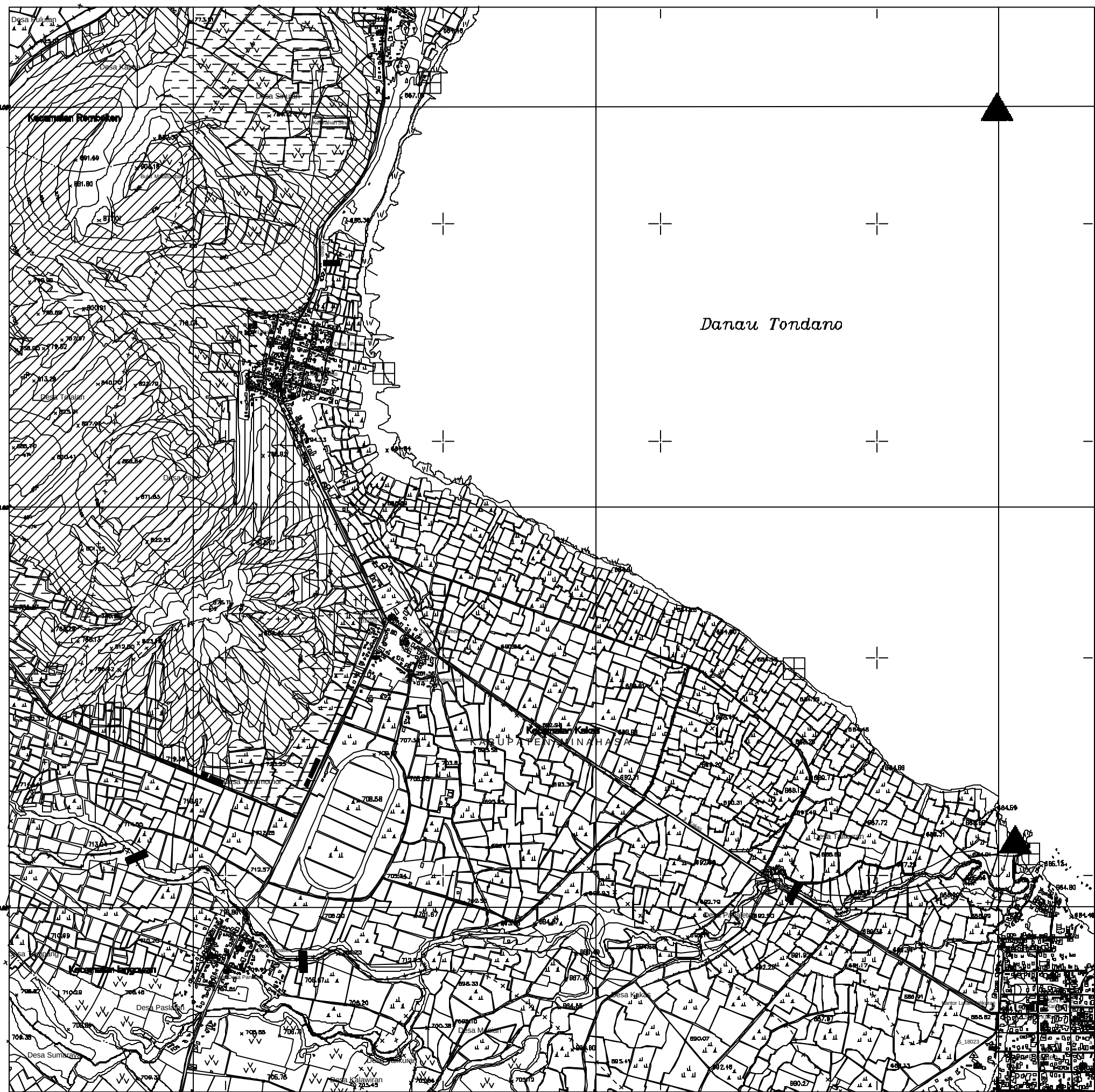
DIRECTORATE GENERAL OF LAND REHABILITATION AND SOCIAL FORESTRY

THE STUDY ON CRITICAL LAND AND PROTECTION FOREST REHABILITATION AT TONDANO WATERSHED PROJECT

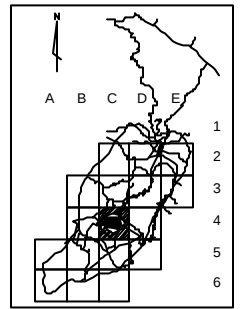
WATERSHED CONSERVATION PLAN MAP

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

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INDEX MAP



LEGEND

WATERSHED CONSERVATION PLAN

FORESTRY		AGRICULTURE / AGROFORESTRY	
	Protection Forest		AGF - I / IM
	Community Forest		AGF - II / IM
	Nursery		AGF - III / IM
	Forest Guard Station		UF / IM
EROSION CONTROL FACILITY			IF
	Rehabilitation of Existing Earth Fill Check Dam		Non-Agricultural Area
	Rehabilitation of Existing Gabion Box Check Dam	MONITORING SYSTEM	
	Check Dam		Soil Erosion Monitoring Station
	River Bed Protection Works		Rainfall Monitoring Station
	River Bank Protection Works		Flow Rate Monitoring Station
	Slope Protection Works for Hillside		Water Quality Monitoring Station
	Slope Protection Works for Road		Bench Mark

TOPOGRAPHICAL MAP

	Existing Triangulation Point		Electric Power Line
	Existing Bench Mark		Jalur Tegangan Tinggi
	Spot Height		Cutting and Embankment
	House / Building		Kerukan dan Timbunan
	Gasoline Pump		Swamp
	Road		Rawa
	Path		Paddy field
	Bridge		Sawah
	Station		Boundary of Vegetation
	Kecamatan Boundary		Field
	Kelurahan Boundary		Ladang
	Land Slide		Forest
	a. River / Sungai		Hutan
	b. Rivulet / Anak Sungai		Grass
	c. Direction / Arah Sungai		Rumpun
			Tree
			Pohon
			Water hole
			Lubang Air
			Sluice
			Pintu Air
			Pipe Culvert
			Gorong - gorong
			Line Contour
			Garis Kontur
			Pond, lake
			Kolam, danau
			Sand
			Pasir

Scale 1 : 10,000



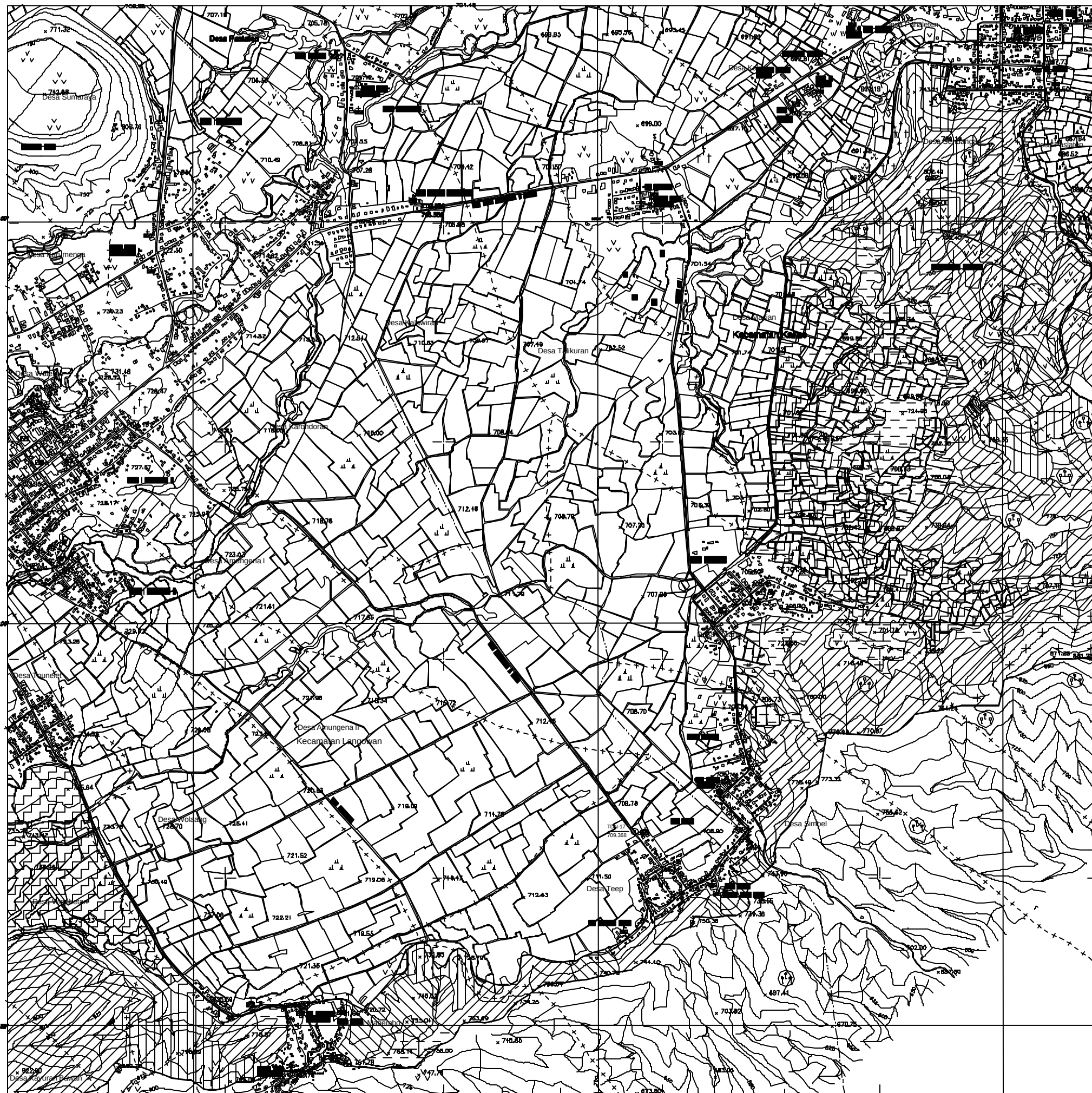
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MINISTRY OF FORESTRY AND ESTATE CROPS
DIRECTORATE GENERAL OF LAND REHABILITATION AND SOCIAL FORESTRY

THE STUDY ON CRITICAL LAND AND PROTECTION FOREST
REHABILITATION AT TONDANO WATERSHED PROJECT

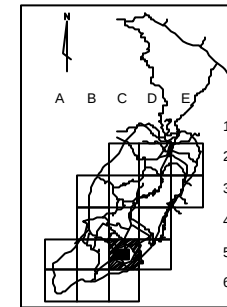
WATERSHED CONSERVATION PLAN MAP

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LEGEND

WATERSHED CONSERVATION PLAN

WATERSHED CONSERVATION PLAN	
INTENSIVE AREA BOUNDARY	
FORESTRY	AGRICULTURE / AGROFORESTRY
Protection Forest	AGF - I / IM
Community Forest	AGF - II / IM
Nursery	AGF - III / IM
Forest Guard Station	UF / IM
EROSION CONTROL FACILITY	UF
Rehabilitation of Existing Earth Fill Check Dam	Non-Agricultural Area
Rehabilitation of Existing Gabion Box Check Dam	MONITORING SYSTEM
Check Dam	Soil Erosion Monitoring Station
River Bed Protection Works	Rainfall Monitoring Station
River Bank Protection Works	Flow Rate Monitoring Station
Slope Protection Works for Hillside	Water Quality Monitoring Station
Slope Protection Works for Road	Bench Mark

TOPOGRAPHICAL MAP

Existing Triangulation Point Titik Tetap Triangulasi	Electric Power Line Jalur Tegangan Tinggi
Existing Bench Mark Bench Mark	Cutting and Embankment Kerukan dan Timbunan
Spot Height Titik Tinggi	Swamp Rawan
House / Building Bangunan	Paddy field Sawah
Gasoline Pump Pompa Bensin	Boundary of Vegetation Batas Tanaman
Road Jalan	Field Ladang
Path Jalan Setapak	Forest Hutan
Bridge Jembatan	Grass Rumput
Station Stasiun	Tree Pohon
Kecamatan Boundary Batas Kecamatan	Water hole Lubang Air
Kelurahan Boundary Batas Kelurahan	Sluice Pintu Air
Land Slide Gorong	Pipe Culvert Gorong - gorong
a. River / Sungai	Line Contour Garis Kontur
b. Rivulet / Anak Sungai	Pond, lake Kolam, danau
c. Direction / Arah Sungai	Sand Pasir

Scale 1 : 10,000



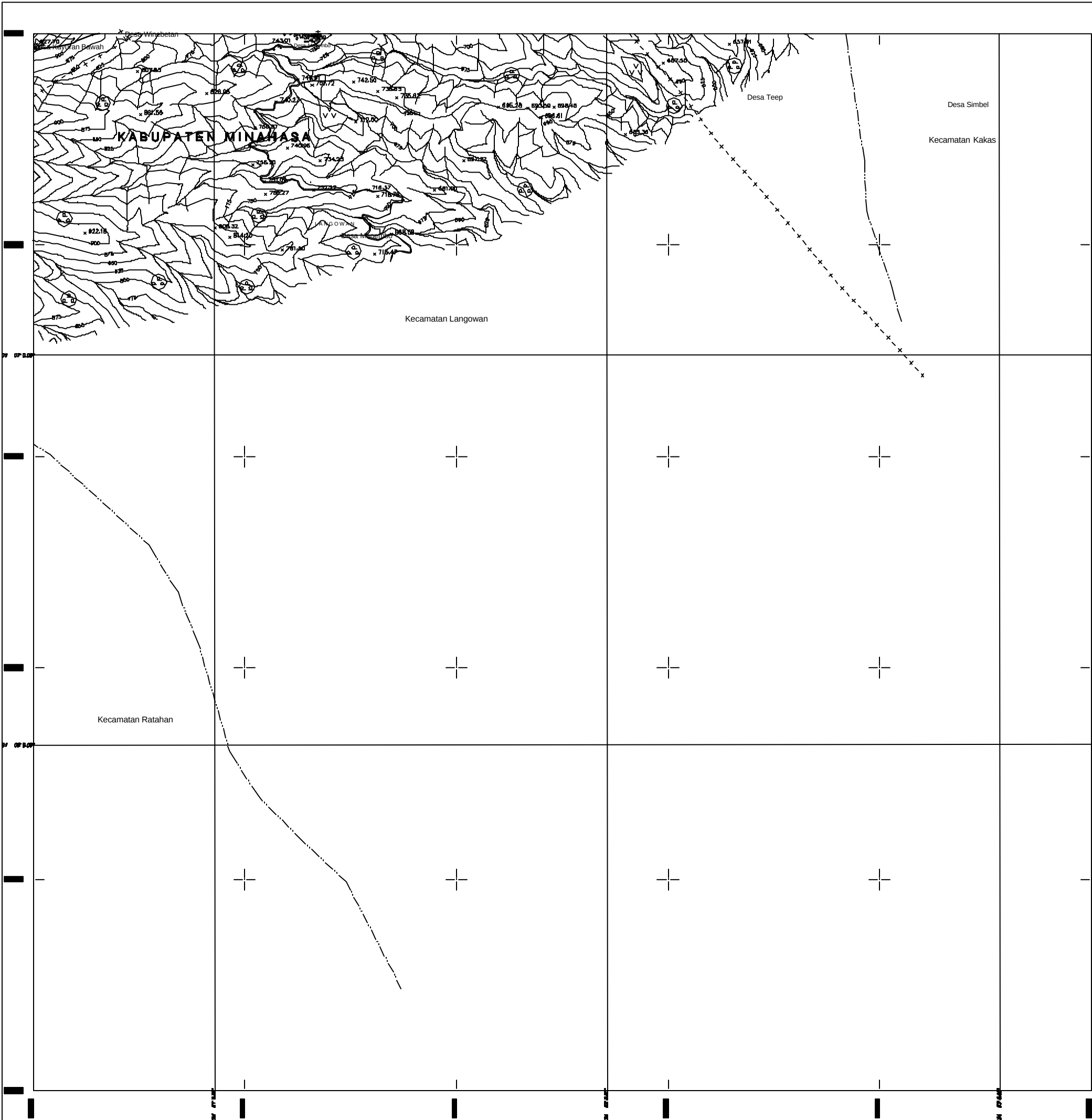
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WATERSHED CONSERVATION PLAN MAP

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LEGEND

WATERSHED CONSERVATION PLAN

FORESTRY	AGRICULTURE / AGROFORESTRY	
Protection Forest	AGF - I / IM	
Community Forest	AGF - II / IM	
Nursery	AGF - III / IM	
Forest Guard Station	UF / IM	
EROSION CONTROL FACILITY		
Rehabilitation of Existing Earth Fill Check Dam	UF	
Rehabilitation of Existing Gabion Box Check Dam	Non-Agricultural Area	
Check Dam	MONITORING SYSTEM	
River Bed Protection Works	Soil Erosion Monitoring Station	Rainfall Monitoring Station
River Bank Protection Works	Flow Rate Monitoring Station	Water Quality Monitoring Station
Slope Protection Works for Hillside	Bench Mark	
Slope Protection Works for Road		

TOPOGRAPHICAL MAP

Existing Triangulation Point Titik Tetap Triangulasi	Electric Power Line Jalur Tegangan Tinggi
Existing Bench Mark Bench Mark	Cutting and Embankment Kerukan dan Timbunan
Spot Height Titik Tinggi	Swamp Rawa
House / Building Bangunan	Paddy field Sawah
Gasoline Pump Pompa Bensin	Boundary of Vegetation Batas Tanaman
Road Jalan	Field Ladang
Path Jalan Setapak	Forest Hutan
Bridge Jembatan	Grass Rumput
Station	Tree Pohon
Kecamatan Boundary Batas Kecamatan	Water hole Lubang Air
Kalurahan Boundary Batas Kalurahan	Sluice Pintu Air
Land Slide Tebing	Pipe Culvert Gorong - gorong
a. River / Sungai	Line Contour Garis Kontur
b. Rivulet / Anak Sungai	Pond, lake Kolam, danau
c. Direction / Arah Sungai	Sand Pasir

Scale 1 : 10.000

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WATERSHED CONSERVATION PLAN MAP

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LEGEND

WATERSHED CONSERVATION PLAN

FORESTRY		AGRICULTURE / AGROFORESTRY	
	Protection Forest		AGF - I / IM
	Community Forest		AGF - II / IM
	Nursery		AGF - III / IM
	Forest Guard Station		UF / IM
EROSION CONTROL FACILITY			IF
	Rehabilitation of Existing Earth Fill Check Dam		Non-Agricultural Area
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	Slope Protection Works for Hillside		Water Quality Monitoring Station
	Slope Protection Works for Road		Bench Mark

TOPOGRAPHICAL MAP

	Existing Triangulation Point		Electric Power Line
	Existing Bench Mark		Cutting and Embankment
	Spot Height		Swamp
	House / Building		Paddy field
	Gasoline Pump		Boundary of Vegetation
	Road		Field
	Path		Forest
	Bridge		Grass
	Station		Tree
	Kecamatan Boundary		Water hole
	Kelurahan Boundary		Sluice
	Land Slide		Pipe Culvert
	a. River / Sungai		Line Contour
	b. Rivulet / Anak Sungai		Pond, lake
	c. Direction / Arah Sungai		Sand

Scale 1 : 10,000

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