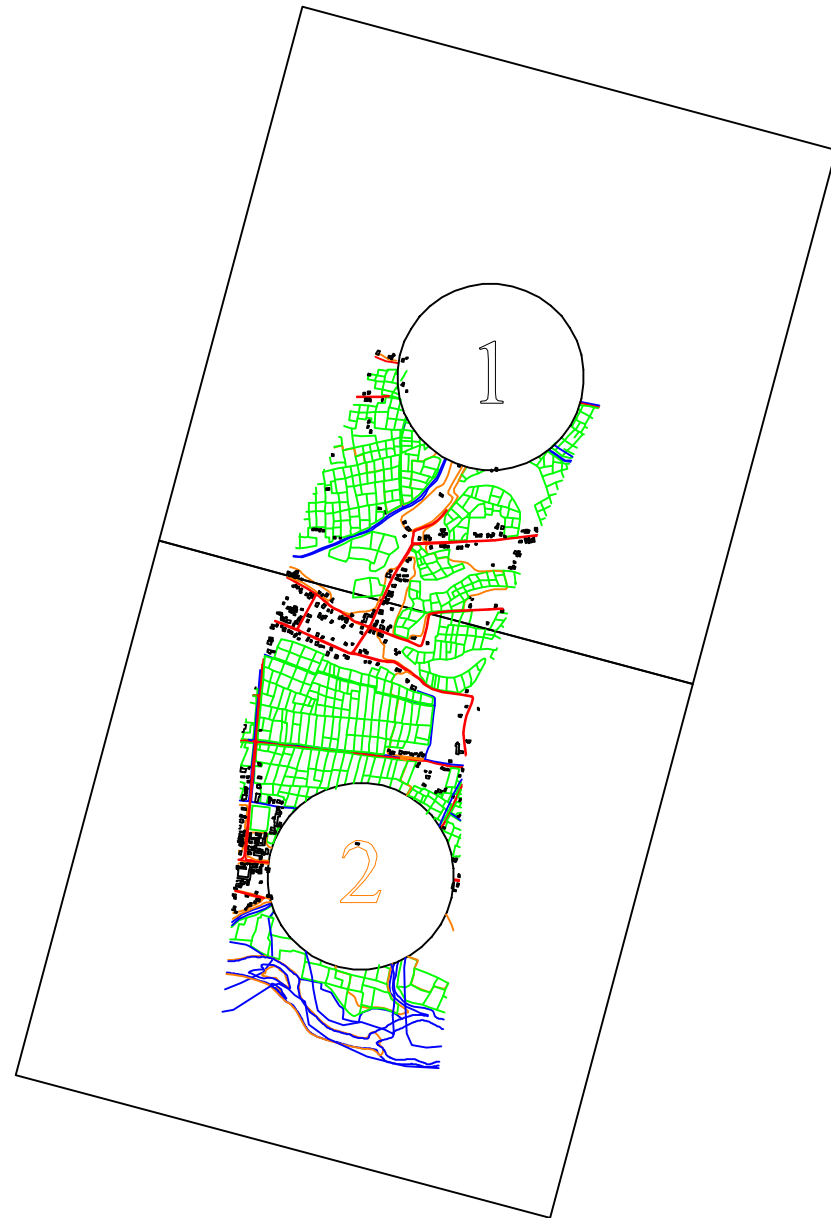
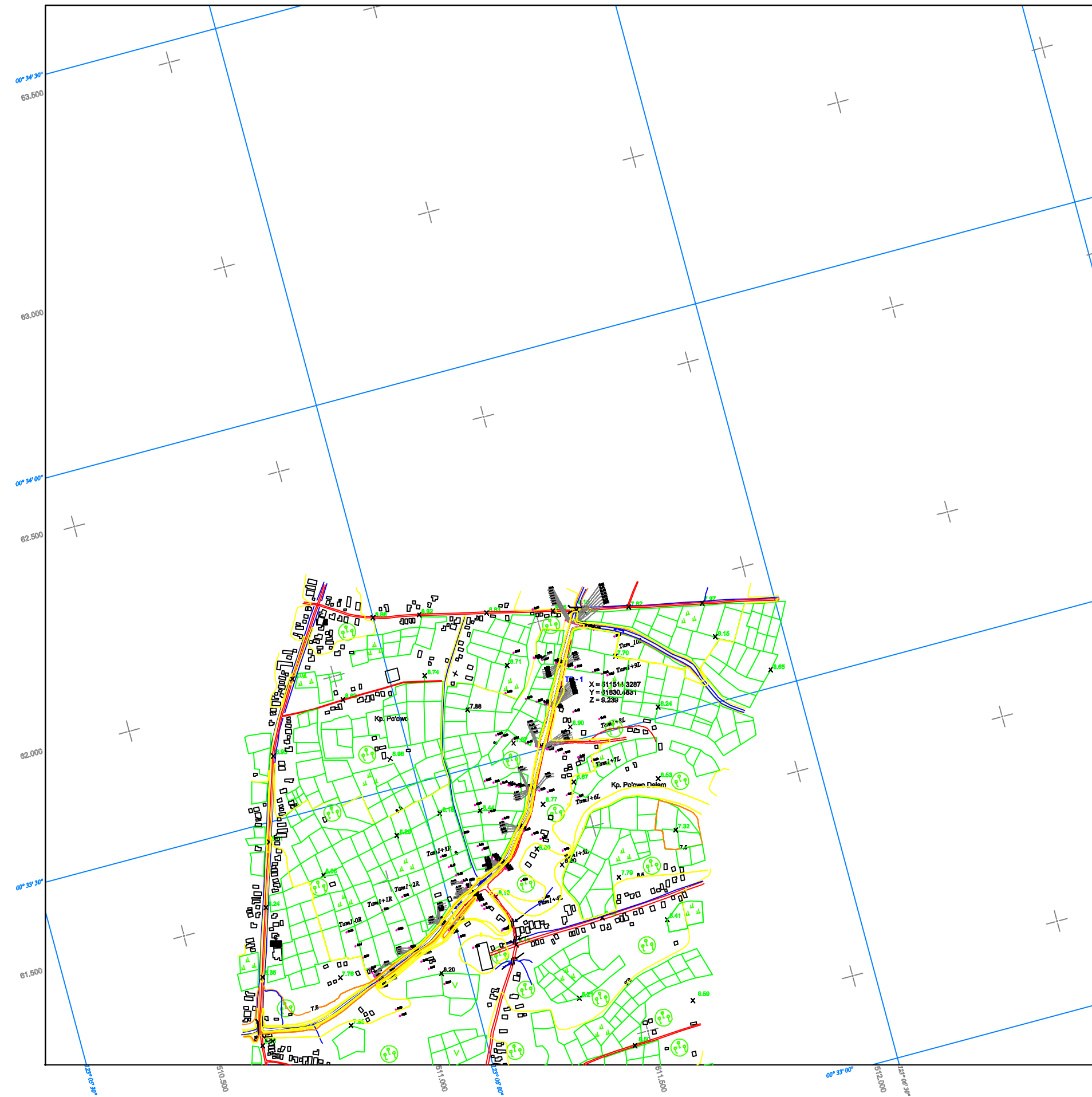




INDEX MAP

TOPOGRAPHIC MAP : PROPOSED TAMALATE FLOODWAY SITE





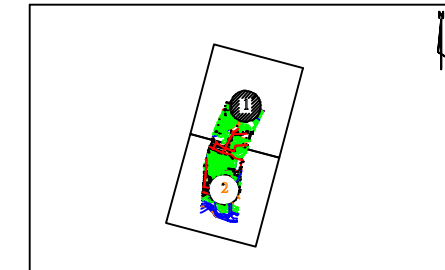




LEGEND

△ Existing Triangulation Point Titik Tetap Triangulasi	⊕ GPS Point Titik GPS	□ Existing Bench Mark Bench Mark	x 12.93 Spot Height Titik Tinggi	⊠ House / Building Bangunan	⊠ Factory Pabrik	⊠ Public Hall Balai Kota	⊠ Police Station Kantor Polisi	⊠ Fire Station Stasiun Pemadam Kebakaran	⊠ Post Office Kantor Pos	⊠ Mosque Masjid	⊠ Church Gereja	⊠ Hospital Rumah Sakit	⊠ School Sekolahan	⊠ Market Pasar	⊠ Telephone Office Kantor Telepon	⊠ Government Office Kantor Pemerintahan	⊠ Hotel Hotel	⊠ Gasoline Pump Pompe Bensin	⊠ Road Jalan	⊠ Path Jalan Setapak	⊠ Bridge Jembatan	⊠ Station Stasiun	⊠ Subdistrict Boundary Balas Kecamatan	⊠ Village Boundary Balas Kelurahan	⊠ Electric Power Line Jalur Tegangan Tinggi	⊠ Cutting and Embankment Kerukan dan Timbunan	⊠ Swamp Rawe	⊠ Muslim graves Kuburan Muslim	⊠ Christian cemetery Kuburan Kristen	⊠ Chinese graves Kuburan Cina	⊠ Paddy field Sawah	⊠ Boundary of Vegetation Batas Tanaman	⊠ Field Ladang	⊠ Forest Hutan	⊠ Grass Rumput	⊠ Tree Pohon	⊠ Water hole Lubang Air	⊠ Slope Pinggir Air	⊠ Pipe Culvert Gerong - gerong	⊠ Monuments Tugu	⊠ Contour Line Garis Kontur	⊠ Pond, lake Kolam, danau	⊠ Sand Pasir	⊠ Land Slide Tebing	a. River / Sungai b. Rivulet / Anak Sungai c. Direction / Arah Sungai
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INDEX MAP





- Topographic map (1 / 5,000)	: July 2002
- Horizontal System	: UTM (51 Zone)
- Elevation System	: MSL
- Contour Interval	: 1 m
- Supplemental Contour	: 0,5 m

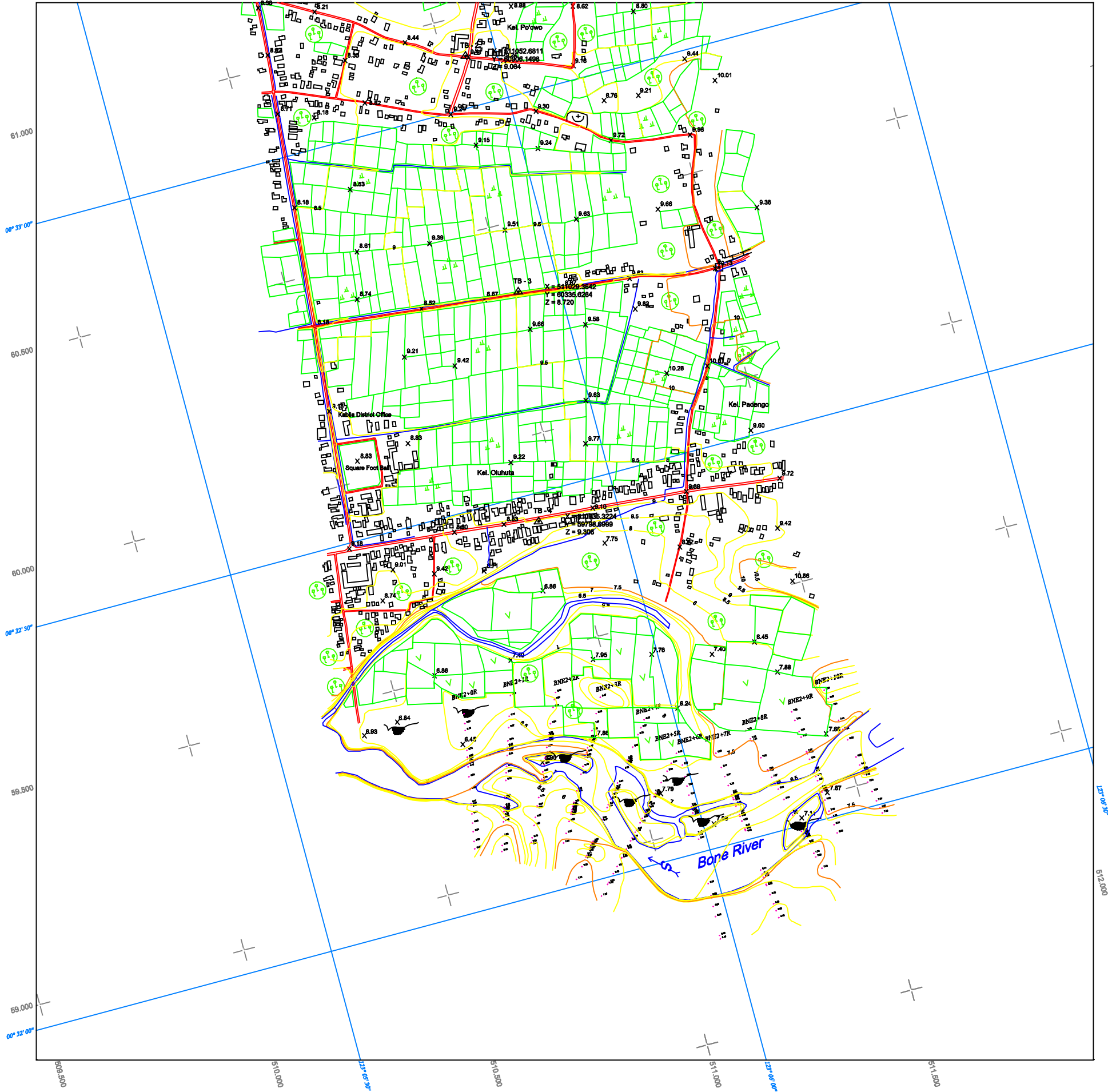
**DIRECTORATE GENERAL OF WATER RESOURCES,
MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE**

**THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN LIMBOTO - BOLANGO - BONE BASIN**

TOPOGRAPHIC MAP : PROPOSED TAMALATE FLOODWAY SITE

Checked by		Approved by	
Name	PT. ATLAS DELTASATYA	Name	JICA Study Team
Signature		Signature	
Date		Date	

 JAPAN INTERNATIONAL COOPERATION AGENCY	 PT. ATLAS DELTASATYA <small>JICA MEMBER COMPANY</small>	SHEET No. 1 / 2
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LEGEND	
	Existing Triangulation Point
	GPS Point
	Existing Bench Mark
	Spot Height
	House / Building
	Factory
	Public Hall
	Police Station
	Fire Station
	Post Office
	Mosque
	Church
	Hospital
	School
	Market
	Telephone Office
	Government Office
	Hotel
	Gasoline Pump
	Road
	Path
	Bridge
	Station
	Subdistrict Boundary
	Village Boundary
	Electric Power Line
	Cutting and Embankment
	Swamp
	Muslim graves
	Christian cemetery
	Chinese graves
	Paddy field
	Boundary of Vegetation
	Field
	Forest
	Grass
	Tree
	Water hole
	Sluice
	Pipe Culvert
	Monuments
	Contour Line
	Pond, lake
	Sand
	Land Slide
	a. River / Sungai
	b. Rivulet / Anak Sungai
	c. Direction / Arah Sungai

- Topographic map (1 / 5.000)
- Horizontal System
- Elevation System
- Contour interval
- Supplemental Contour

- : July 2002
- : UTM (51 Zone)
- : MSL
- : 1 m
- : 0,5 m

**DIRECTORATE GENERAL OF WATER RESOURCES,
MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE**

**THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN LIMBOTO - BOLANGO - BONE BASIN**

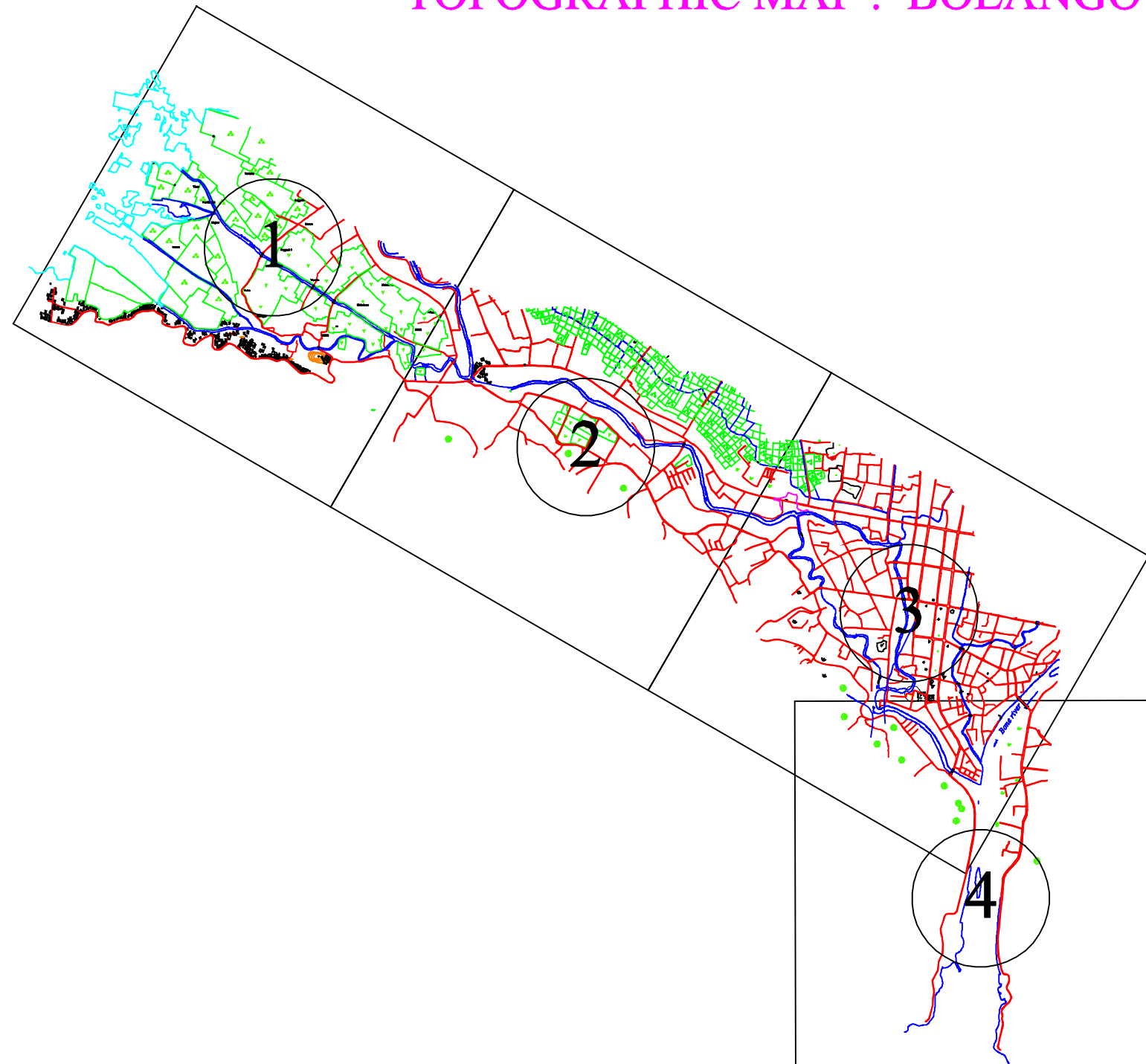
TOPOGRAPHIC MAP : PROPOSED TAMALATE FLOODWAY SITE

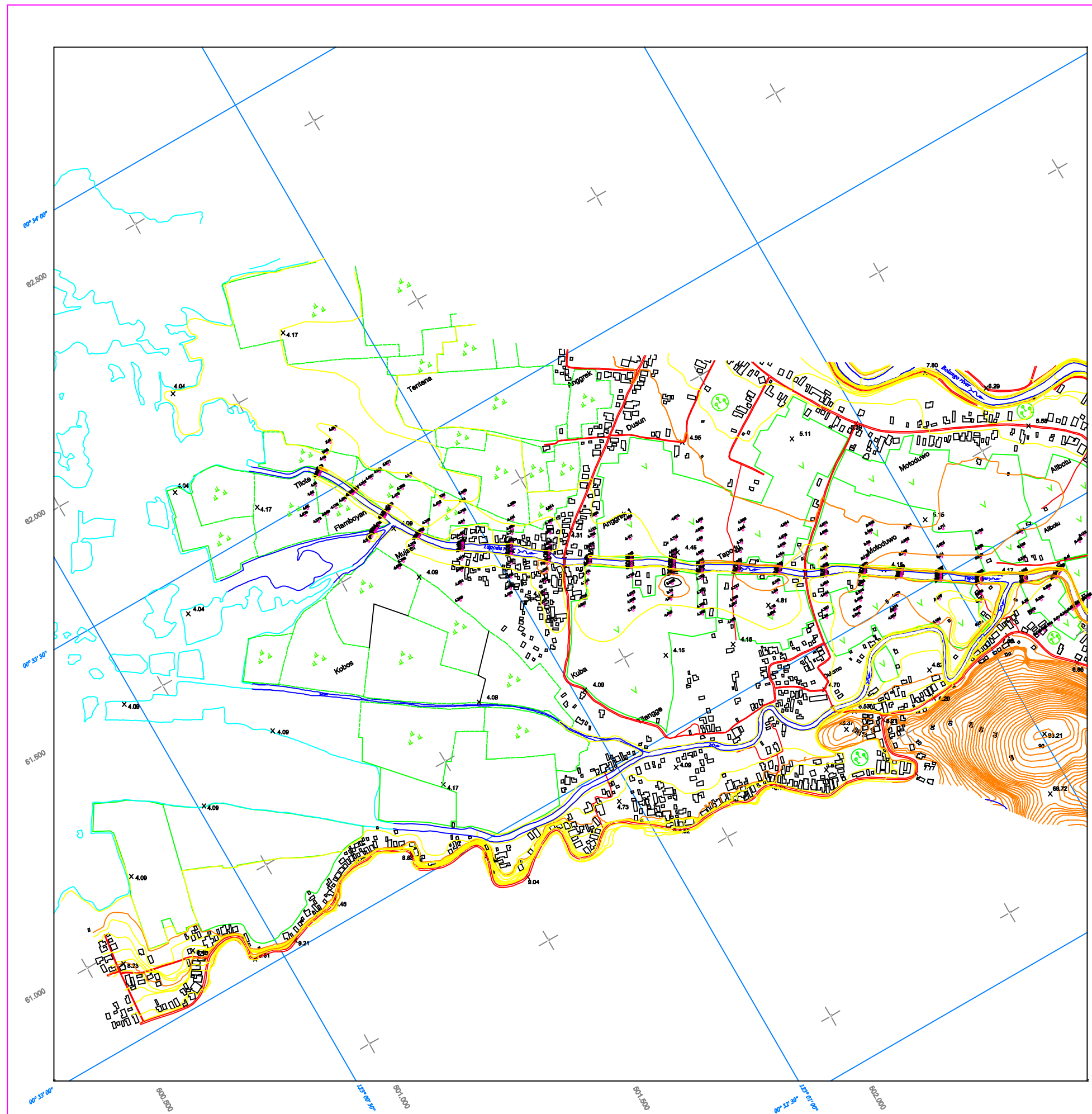
Checked by	Approved by
Name PT. ATLAS DELTASATYA	JICA Study Team
Signature	
Date	

SHEET No.
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INDEX MAP

TOPOGRAPHIC MAP : BOLANGO RIVER





LEGEND

- ▲ Existing Triangulation Point
- GPS Point
- Existing Bench Mark
- 12.83 X Spot Height
- House / Building
- Factory
- Public Hall
- Police Station
- Fire Station
- Post Office
- Mosque
- Church
- Hospital
- School
- Market
- Telephone Office
- Government Office
- Hotel
- Gasoline Pump
- Road
- Path
- Bridge
- Station
- Subdistrict Boundary
- Village Boundary

- ⚡ Electric Power Line
- ⌈⌋ Cutting and Embankment
- ⌈⌋ Swamp
- ☪ Muslim graves
- ✝ Christian cemetery
- ☪ Chinese graves
- 🌾 Paddy field
- 🌿 Boundary of Vegetation
- 🌱 Field
- 🌳 Forest
- 🌿 Grass
- 🌳 Tree
- 🌳 Pohon
- 🕒 Water hole
- 🕒 Shelter
- 🕒 Pipe Culvert
- 🕒 Monument
- 🕒 Tugu
- 🌊 Contour Line
- 🌊 Pond, lake
- 🌊 Sand
- 🌊 Land Slide
- 🌊 a. RVer / Sungai
- 🌊 b. Rivulet / Anak Sungai
- 🌊 c. Direction / Arah Sungai

INDEX MAP

- Aerial Photography (1/ 25.000) : August 2001
- Topographic map (1 / 5.000) : July 2002
- Horizontal System : UTM (51 Zone)
- Elevation System : MSL
- Contour interval : 1 m
- Supplemental Contour : 0,5 m

**DIRECTORATE GENERAL OF WATER RESOURCES,
MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE**

**THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN LIMBOTO - BOLANGO - BONE BASIN**

TOPOGRAPHIC MAP : BOLANGO RIVER

Checked by		Approved by	
Name	PT. ATLAS DELTASATYA	Signature	JICA Study Team
Signature		Date	

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