

**SUPPORTING REPORT C**

**BASIC PLAN OF WATER SUPPLY FACILITIES FOR 121 IKKs**



## SUPPORTING REPORT C

### BASIC PLAN OF WATER SUPPLY FACILITIES FOR 121 IKKS

1. System plans for 121 IKKs are shown in Fig. C.1, Fig. C.2 and Fig. C.3.
2. For 30 IKKs among 121 IKKs listed up in Table 5.3 in Chapter 5 of the main report, the feasibility study was conducted in Phase 2 after detailed field surveys.

As a result of detailed surveys, some parts of water supply facilities in 30 IKKs such as water source, scope of IKK and piping route, etc. were changed or revised in the feasibility study.

Moreover design criteria were reviewed and revised in the feasibility study.

Therefore, for detailed design for implementation, the results of the feasibility study shown in Chapter 6 in the main report and supporting report D should be referred in those 30 IKKs.

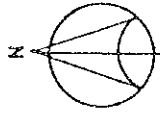


**Fig. C.1 System Plans for IKKs in Central Java**



**LEGEND**

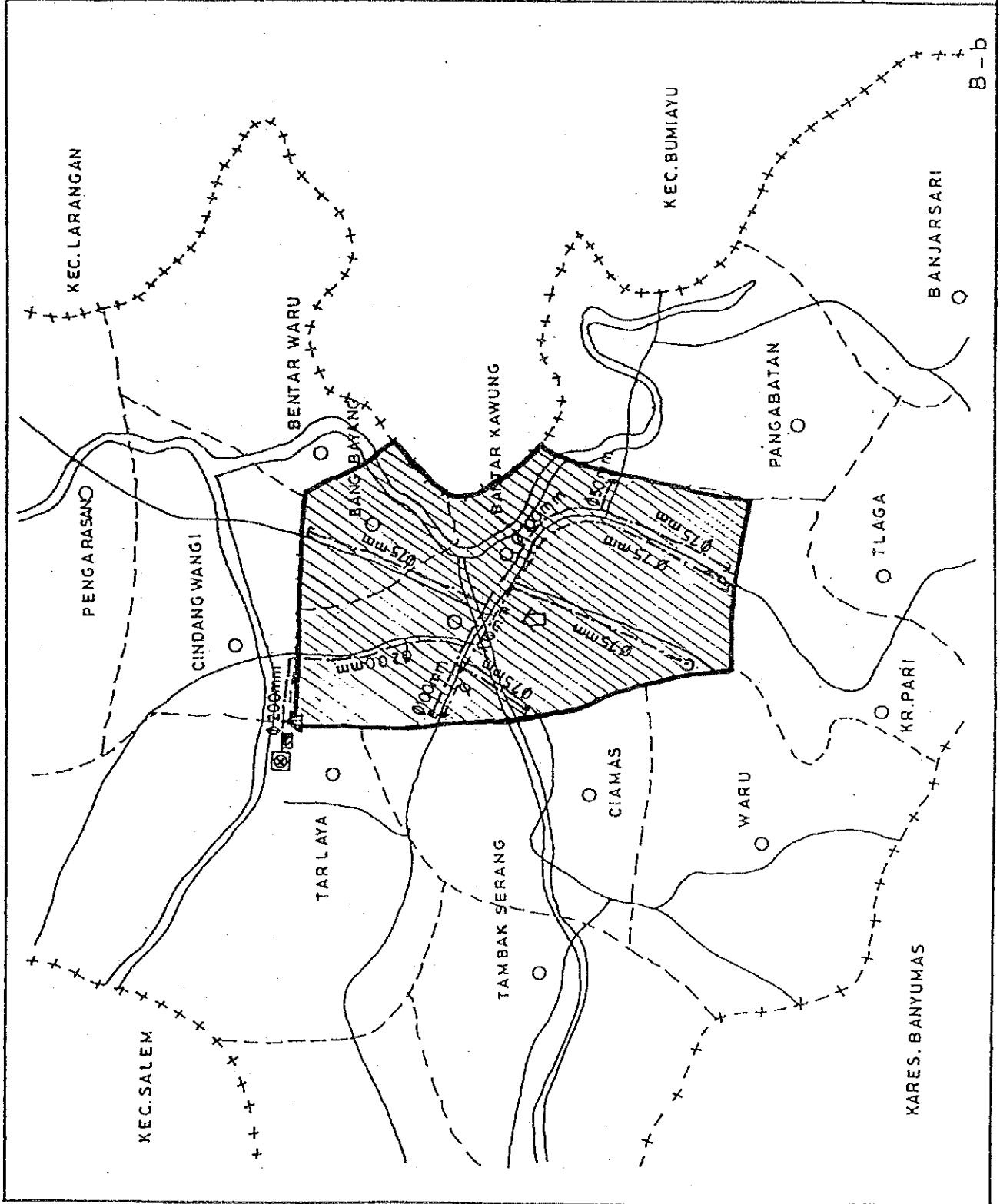
- = DESA ROAD
- - - = DESA BOUNDARY
- ++++ = KEC. BOUNDARY
- + - + = KAB. BOUNDARY
- ~ ~ ~ = RIVER
- = DESA OFFICE
- ↑ = KECAMATAN OFFICE
- ▨ = IKK. AREA
- ▩ = RESERVOIR
- ⊗ = PROPOSED SPRING
- ⊕ = ELEVATED TANK
- + — = DISTRIBUTION PIPE LINE
- - - = TRANSMISSION PIPE LINE



SCALE 1 : 15.000

C-1

**BANTARKAWUNG**



**LEGEND**

- == MAIN ROAD
- = DESA ROAD
- == RAILWAY
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ▩ RESERVOIR
- ⊙ PROPOSED WELL
- ⊕ ELEVATED TANK
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE

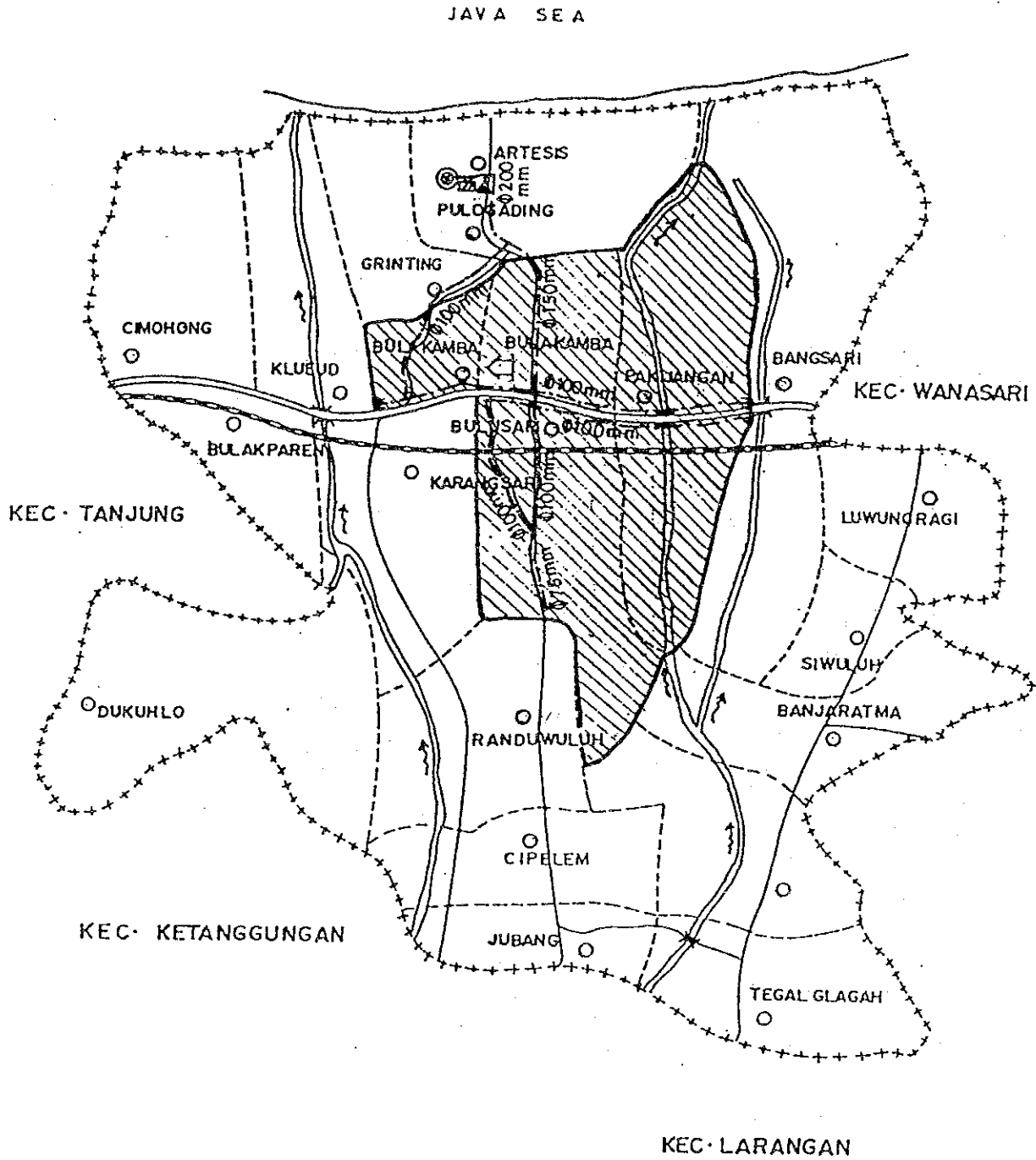


SCALE 1 : 25.000

C-2

**BULAKAMBA**

D-b





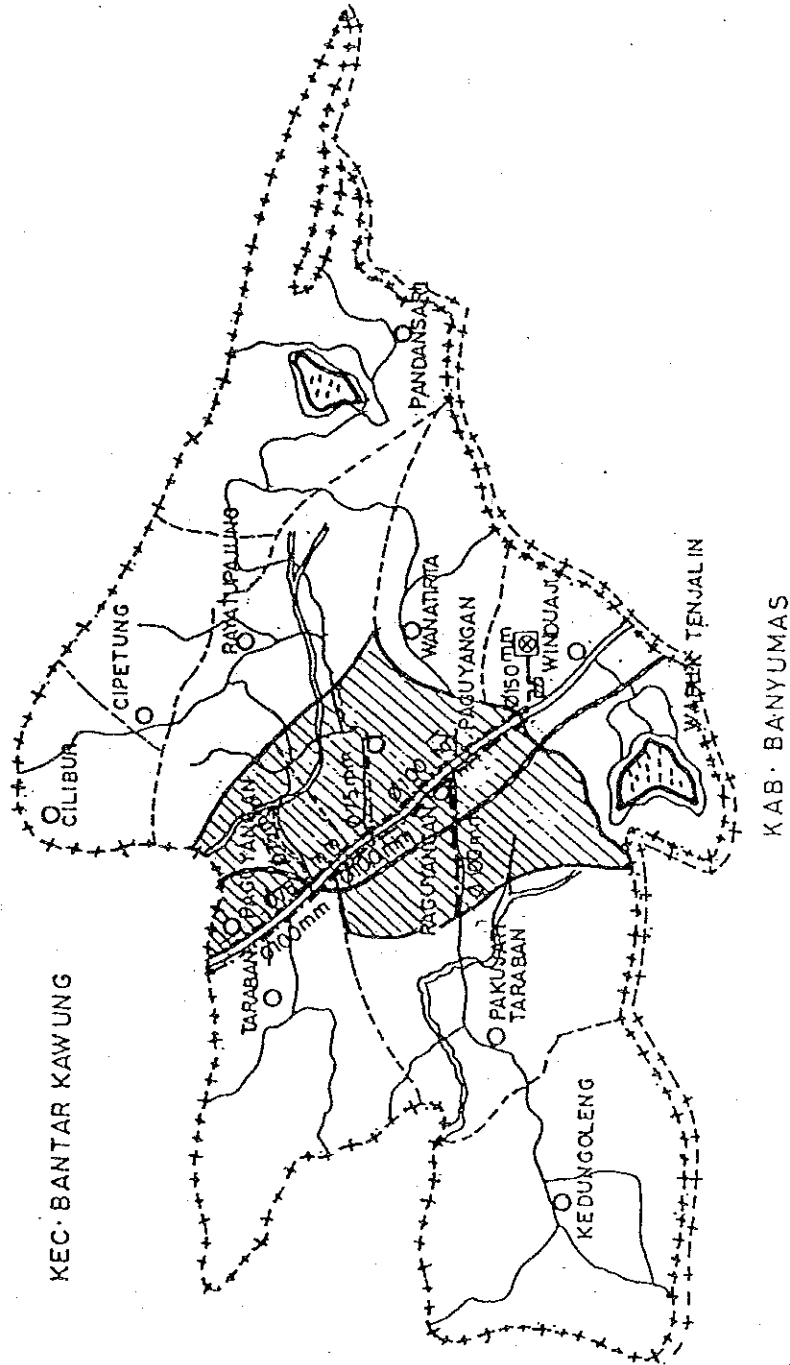
**LEGEND**

- == MAIN ROAD
- DESA ROAD
- ≡ RAILWAY
- + -+ KAB. BOUNDARY
- + + -+ KEC. BOUNDARY
- - - DESA BOUNDARY
- ~ RIVER
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊠ PROPOSED SPRING
- ▭ RESERVOIR
- - - DISTRIBUTION PIPE LINE
- · - · - TRANSMISSION PIPE LINE

SCALE 1 : 25.000

C - 3

**PAGUYANGAN**

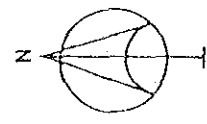


KAB. BANYUMAS

A - a

**LEGEND**

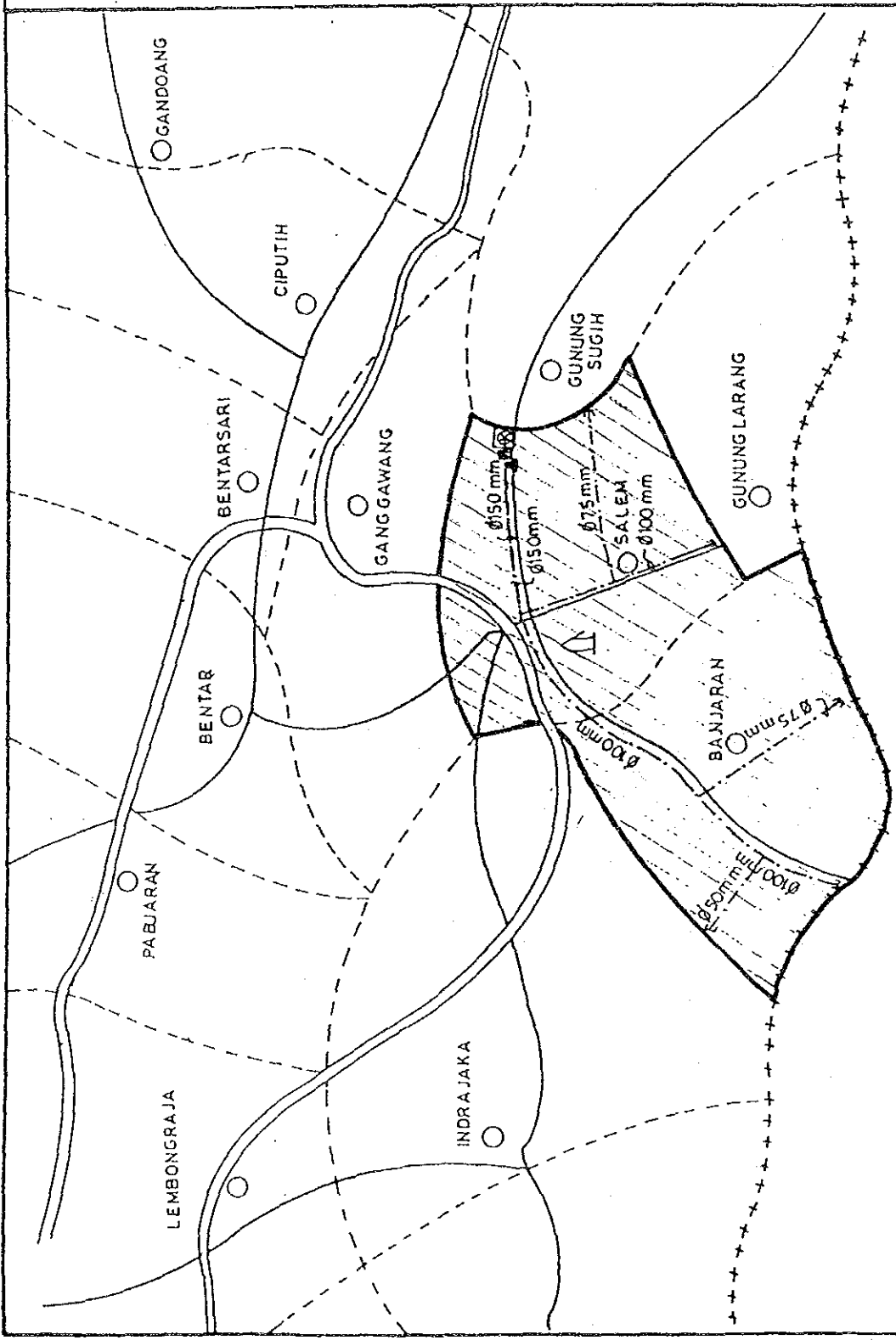
- == MAIN ROAD
- DESA ROAD
- + + + + KEC. BOUNDARY
- - - - DESA BOUNDARY
- ▲ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED SPRING
- ▤ RESERVOIR
- ▽ ELEVATED TANK
- TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE



SCALE 1:25000

C-4

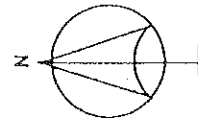
**SALEM**



B-b

**LEGEND**

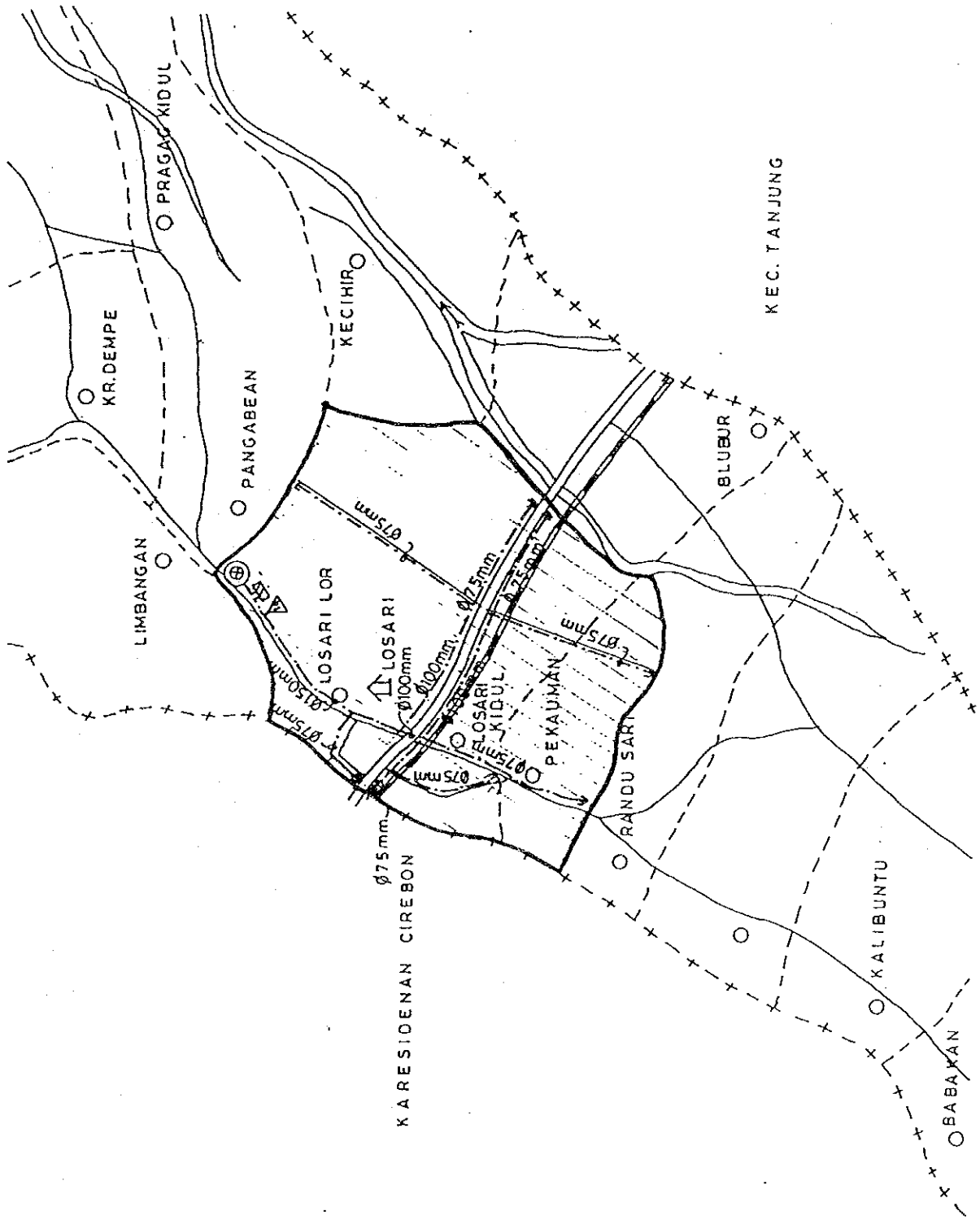
- = MAIN ROAD
- = DESA ROAD
- = RAILWAY
- = KAB. BOUNDARY
- = KEC. BOUNDARY
- = DESA BOUNDARY
- = RIVER
- = KEC. OFFICE
- = DESA OFFICE
- = IKK AREA
- = PROPOSED WELL
- = RESERVOIR
- = ELEVATED TANK
- = TRANSMISSION PIPE LINE
- = DISTRIBUTION PIPE LINE



SCALE 1: 25.000

C-5

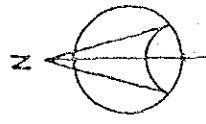
**LOSARI**



C-b

**LEGEND**

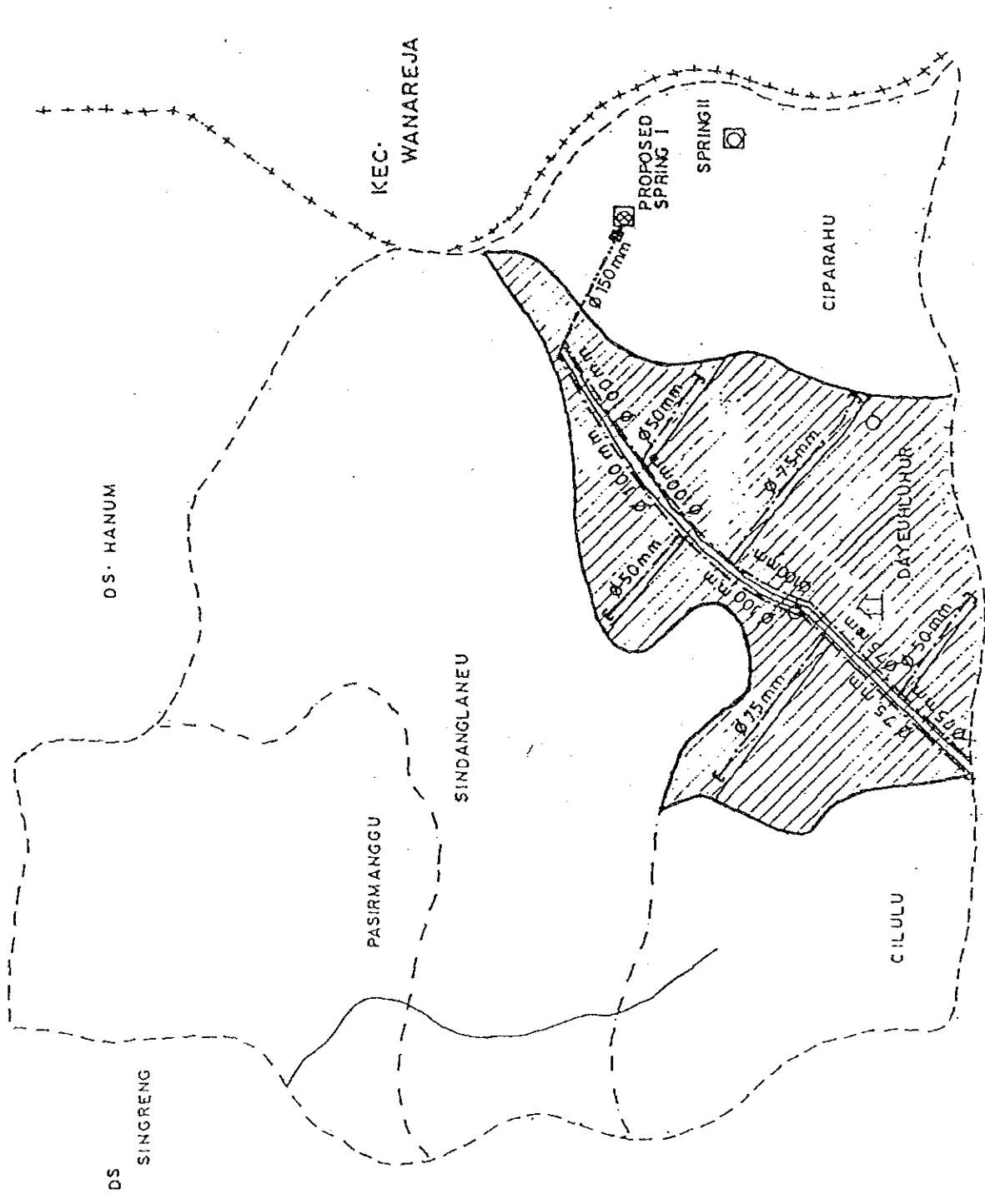
- == MAIN ROAD
- = DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- DESA OFFICE
- △ KECAMATAN OFFICE
- SPRING
- ▨ IKK. AREA
- ⊗ PROPOSED SPRING
- RESERVOIR
- · - · - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 25.000

C-6

**DAYEHLUHUR**



A-a

DS. CIWALEH

DS. MATENGGENE

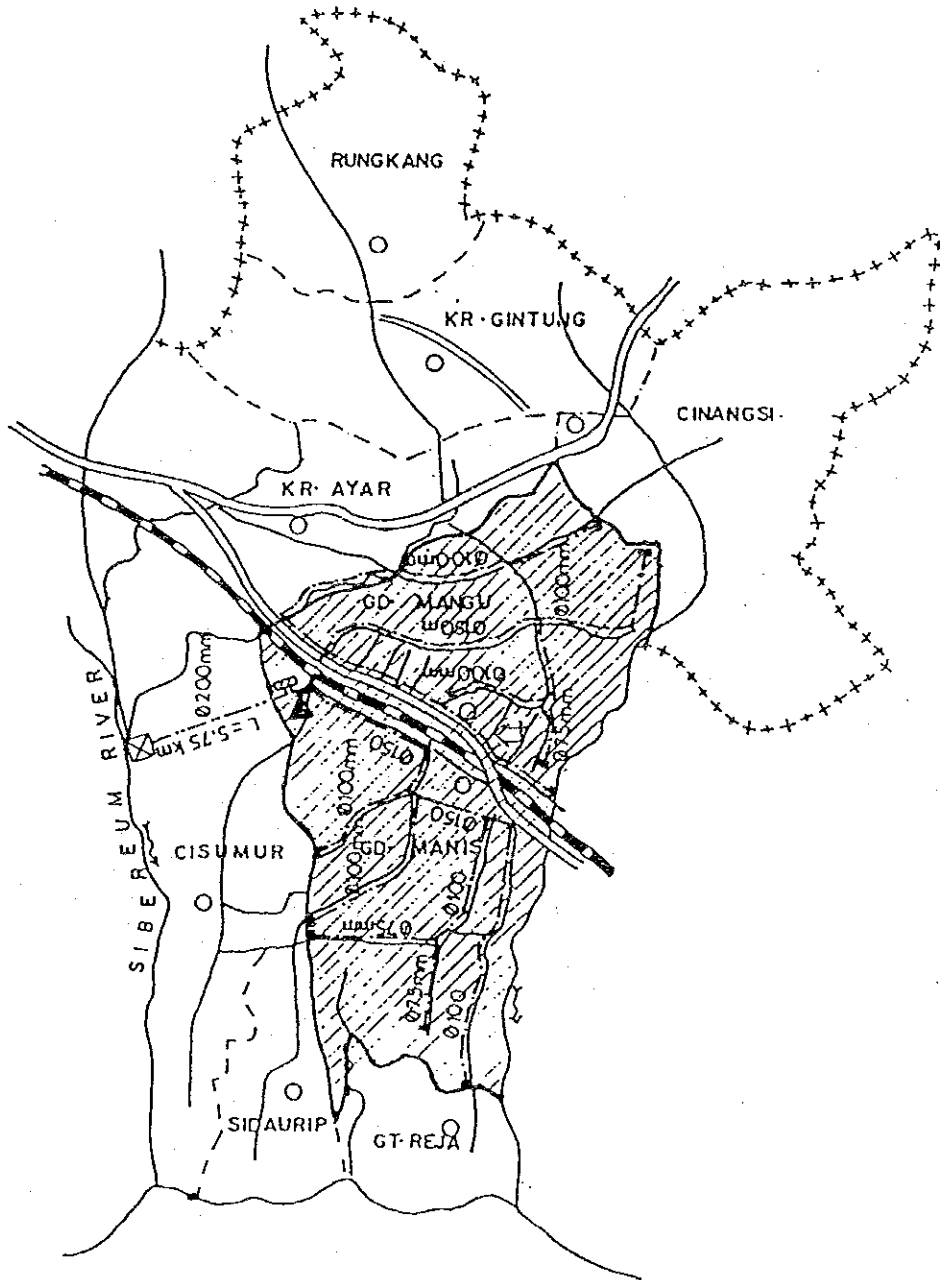
**LEGEND**

- == MAIN ROAD
- DESA ROAD
- ≡ RAIL WAY
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- DESA OFFICE
- ↑ KECAMATAN OFFICE
- ▨ IKK AREA
- ⊠ PURIFICATION PLANT
- ▽ ELEVATED TANK
- ▩ RESERVOIR
- - - - - DISTRIBUTION PIPE LINE
- - - - - TRANSMISSION PIPE LINE

SCALE 1 : 23.000

C-7

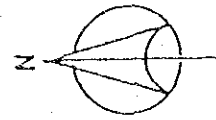
GANDRUNGMANGU



E

**LEGEND**

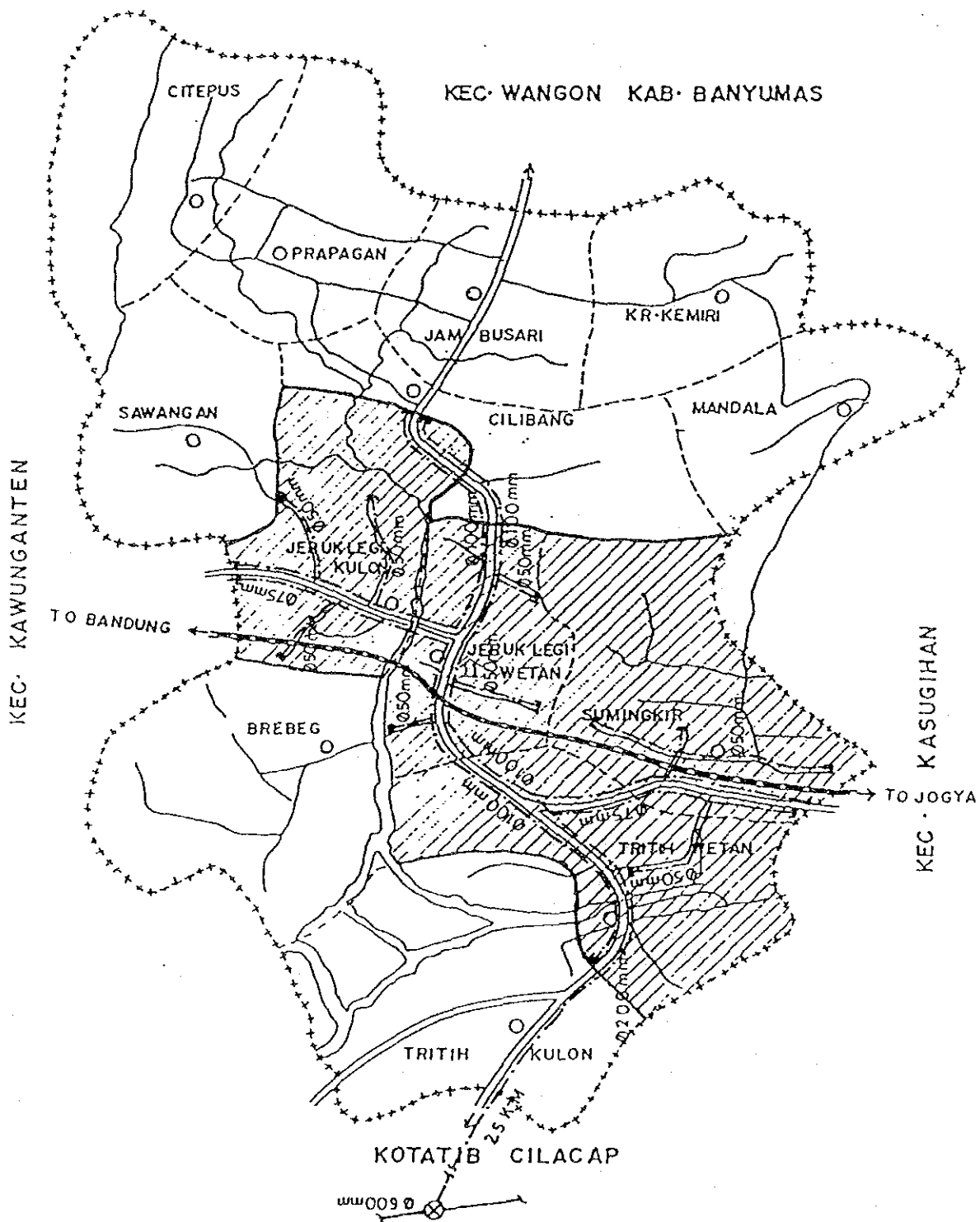
- == MAIN ROAD
- - - DESA ROAD
- +— RAILWAY
- +++++ KEC. BOUNDARY
- - - DESA BOUNDARY
- ~ RIVER
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK. AREA
- ⊗ TAPPING POINT
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 11.000

C-8

**JERUKLEGI**



F

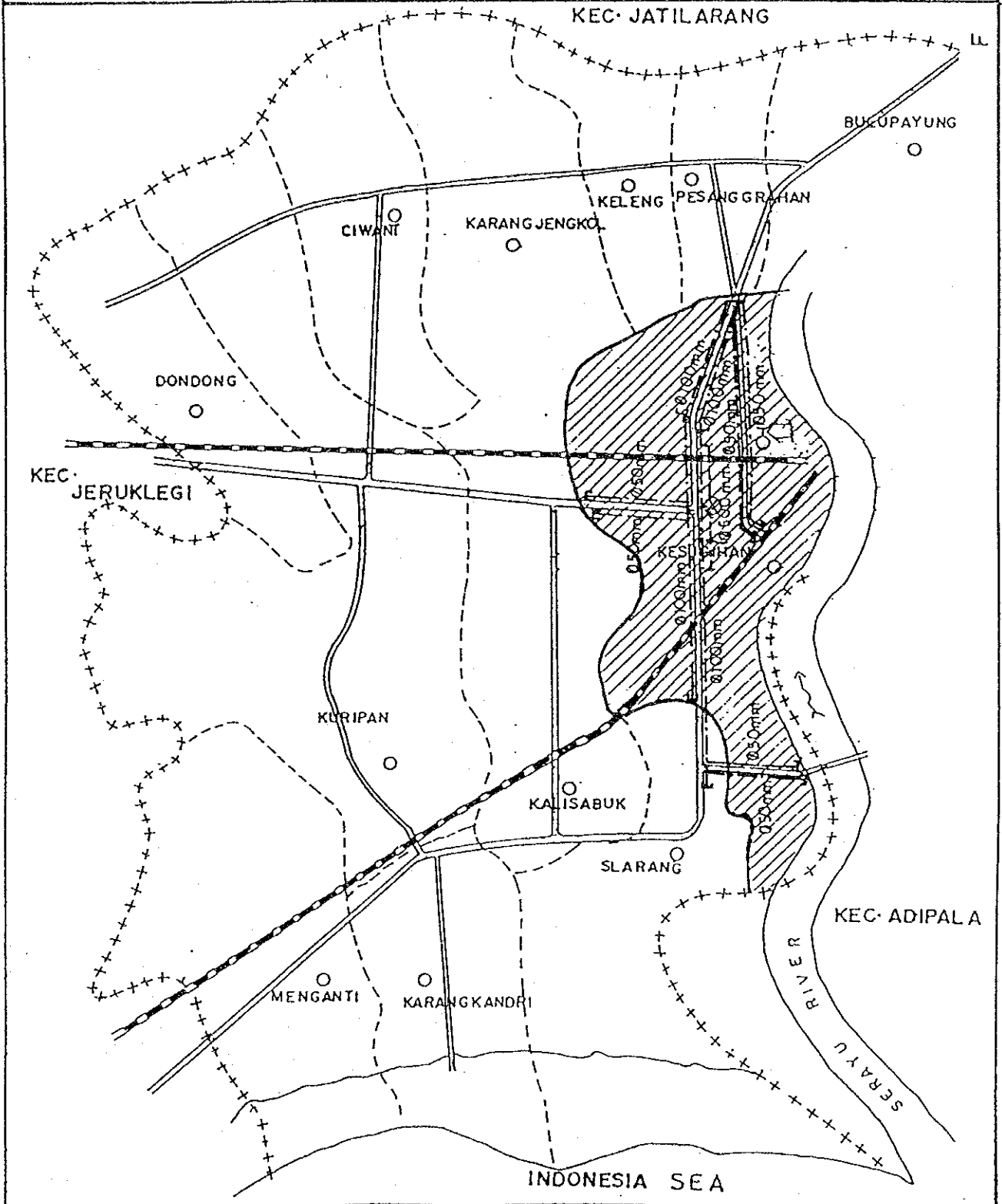
<b>LEGEND</b>		MAIN ROAD
	KEC. BOUNDARY	
	DESA BOUNDARY	
	RAIL WAY	
	RIVER	
	DESA OFFICE	
	KECAMATAN OFFICE	
	IKK AREA	
	TAPPING POINT	
	EXISTING PIPE LINE	
	DISTRIBUTION PIPE LINE	



SCALE 1 : 8.000

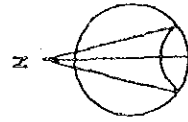
C-9

KESUGIHAN



**LEGEND**

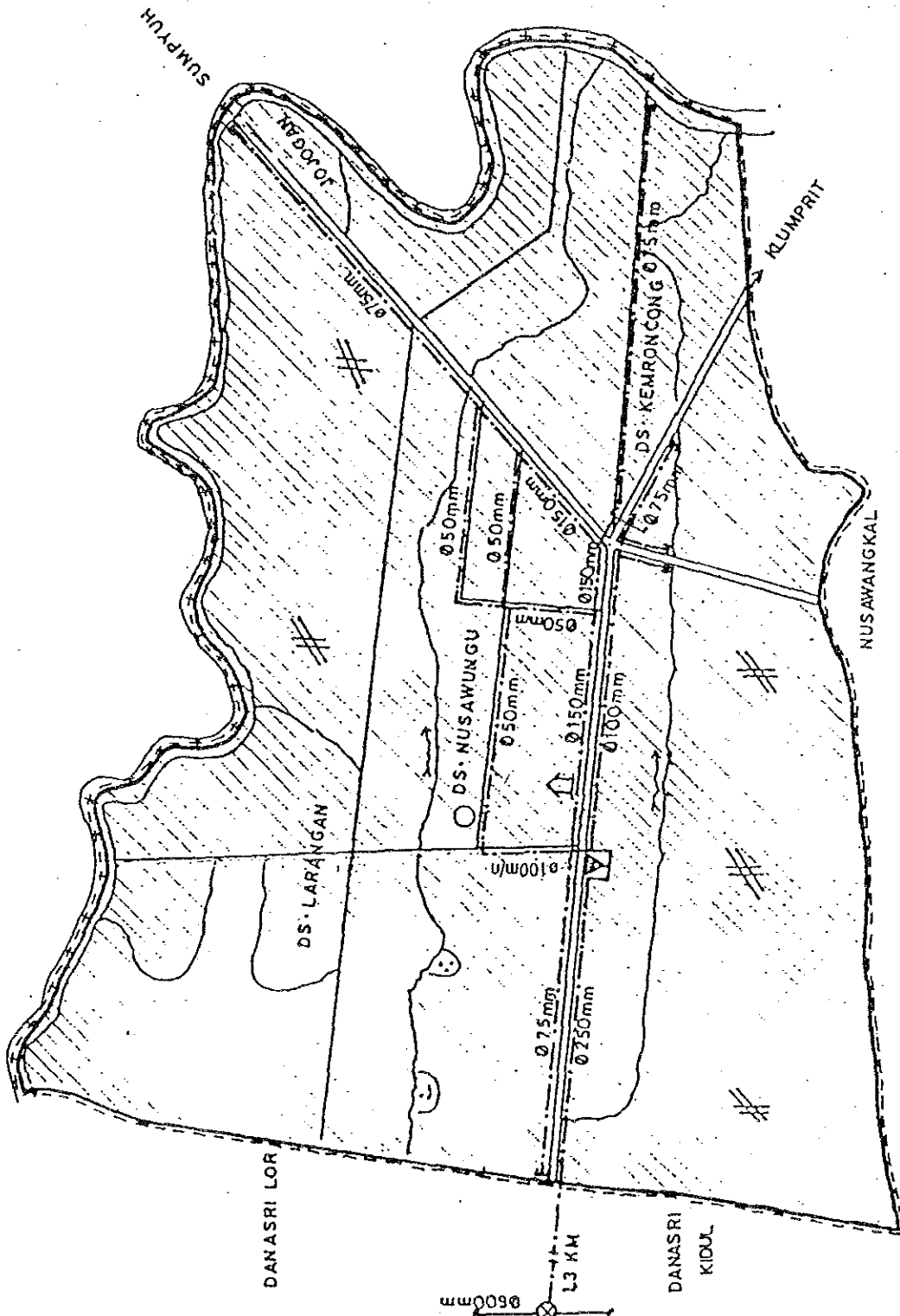
- == MAIN ROAD
- DESA ROAD
- +--+ KAB. BOUNDARY
- - - DESA. BOUNDARY
- ~ REVER
- ~ REVER
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊕ TAPPING POINT
- ▽ ELEVATED TANK
- EXISTING PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 48.000

C-10

NUSAWUNGU

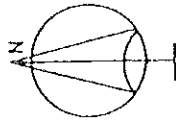


F



**LEGEND**

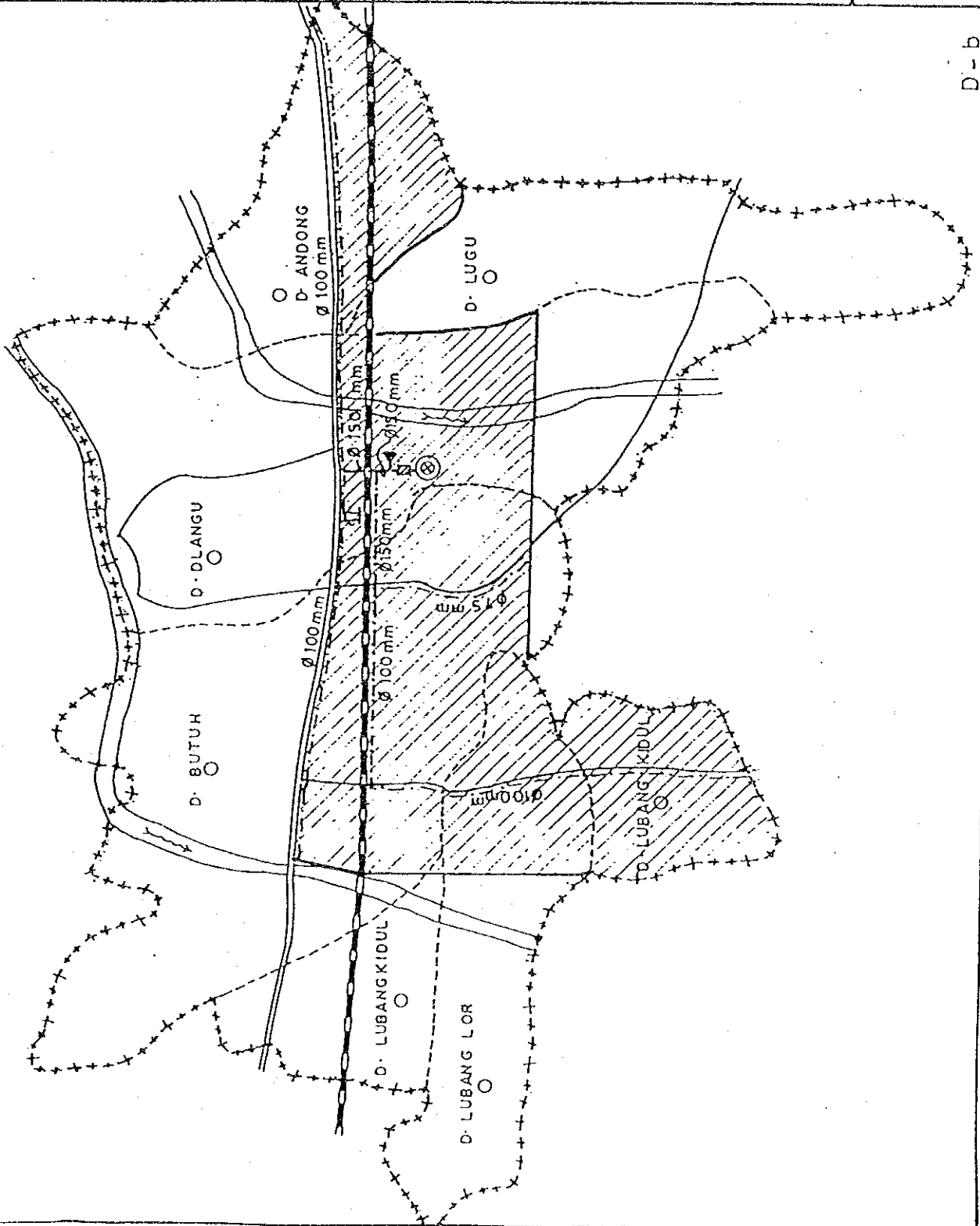
- == MAIN ROAD
- DESA ROAD
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- +—+—+ RAIL WAY
- ~ RIVER
- DESA OFFICE
- ⌂ KECAMATAN OFFICE
- ▨ I K K. AREA
- ⊗ PROPOSED WELL
- ▩ RESERVOIR
- ▲ ELEVATED TANK
- TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 33.000

C-11

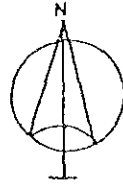
BUTUH



D-b

**LEGEND**

- == MAIN ROAD
- DESA ROAD
- +++ KEC. BOUNDARY
- - - DESA BOUNDARY
- ≡ RAILWAY
- ~ RIVER
- DESA OFFICE
- ↑ KECAMATAN OFFICE
- ▨ IKK AREA
- ▣ PROPOSED SPRING
- ▤ RESERVOIR
- ▼ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE

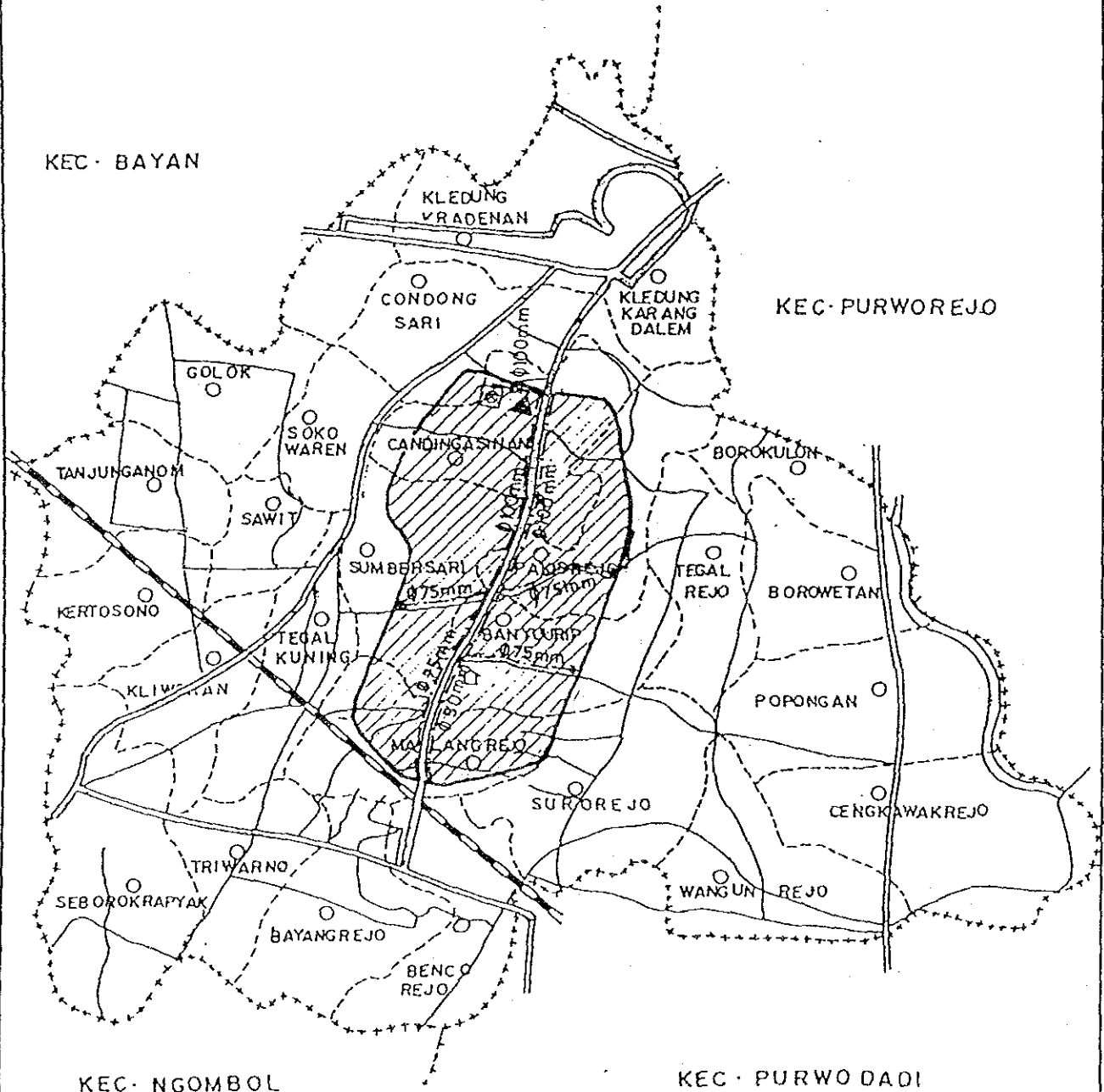


SCALE 1 : 40.000

C-12

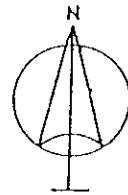
BANYUURIP

B-b



**LEGEND**

- == MAIN ROAD
- DESA ROAD
- +++++ KEC. BOUNDARY
- DESA BOUNDARY
- ~ RIVER
- DESA OFFICE
- ⬆️ KECAMATAN OFFICE
- ▨ I K K AREA
- ⊙ SHALLOW WELL
- ⊞ RESERVOIR
- ⚡ ELEVATED TANK
- TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE

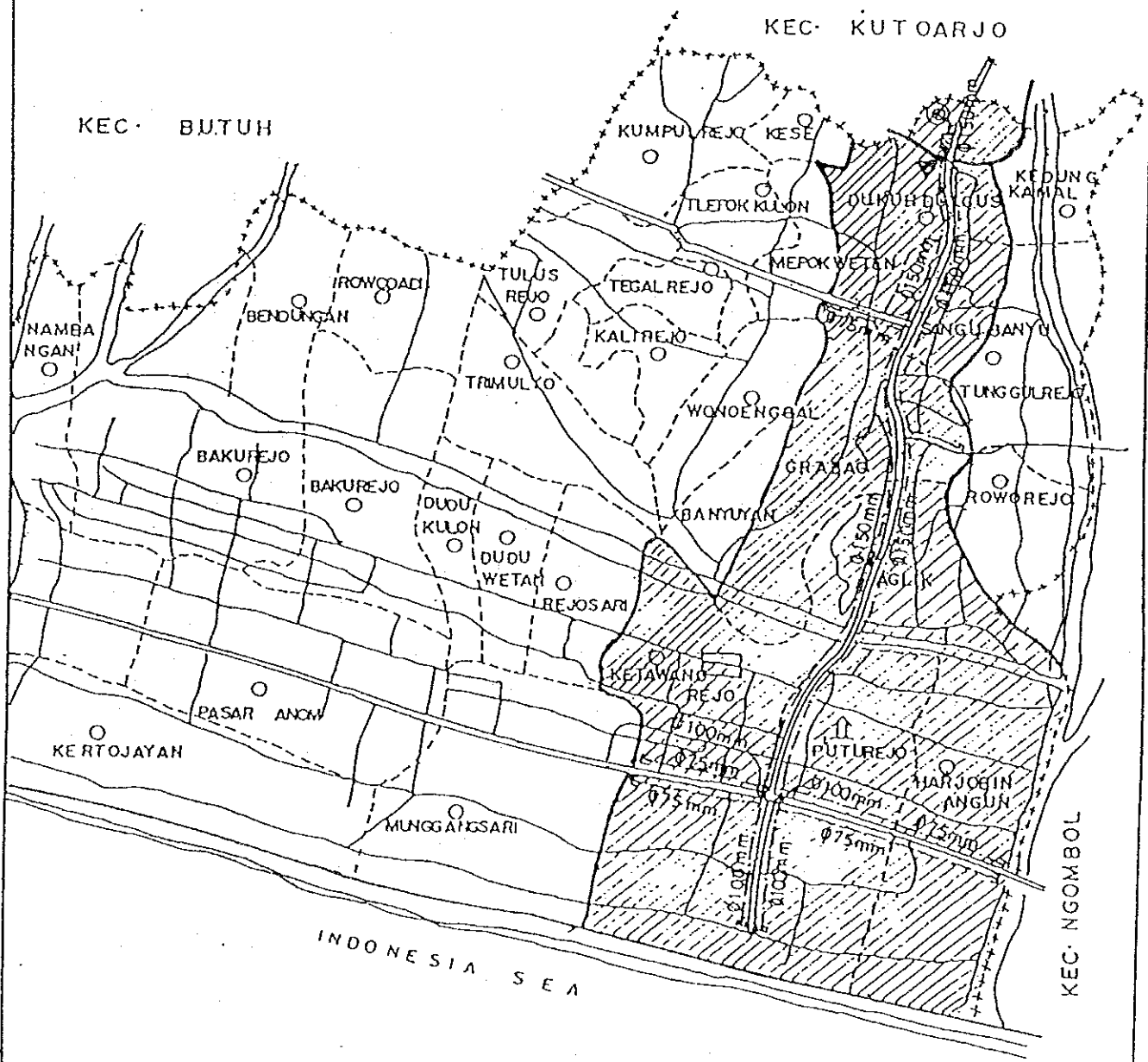


SCALE # 1 : 42.000

C-13

GRABAG

C - b



**LEGEND**

- == MAIN ROAD
- DESA ROAD
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- DESA OFFICE
- ↑ KECAMATAN OFFICE
- ▨ IKK AREA
- ☒ PROPOSED SPRING
- ☑ RESERVOIR
- DISTRIBUTION PIPE LINE
- TRANSMISSION PIPE LINE

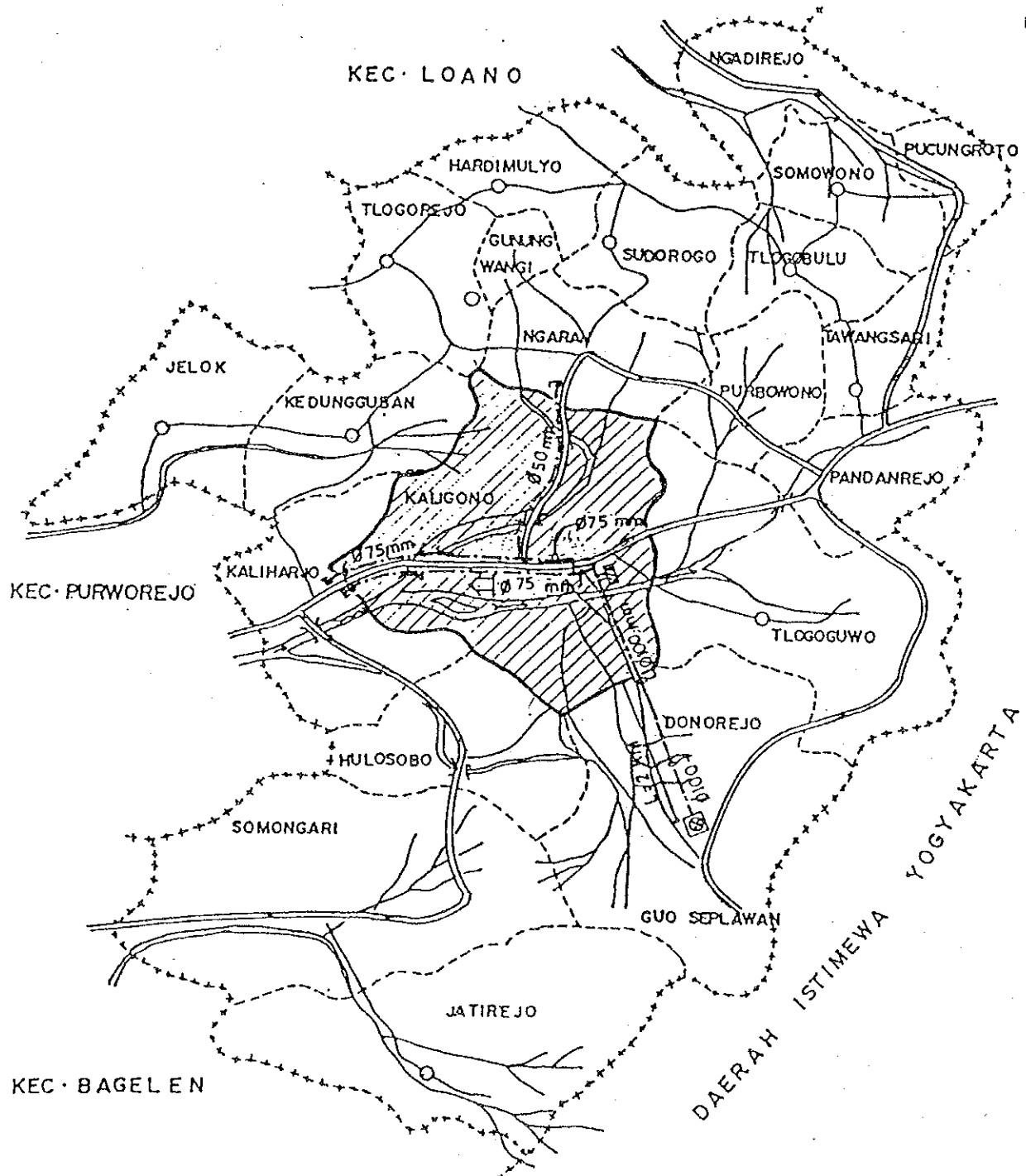


SCALE 1 : 45000

C-14

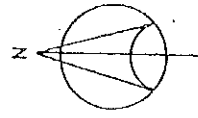
KALIGESING

B-a



**LEGEND**

- = MAIN ROAD
- = DESA ROAD
- = DESA OFFICE
- = DESA BOUNDARY
- = KEC. BOUNDARY
- = RIVER
- = IKK AREA
- = RESERVOIR
- = PROPOSED WELL
- = ELEVATED TANK
- = TRANSMISSION PIPE LINE
- = DISTRIBUTION PIPE LINE

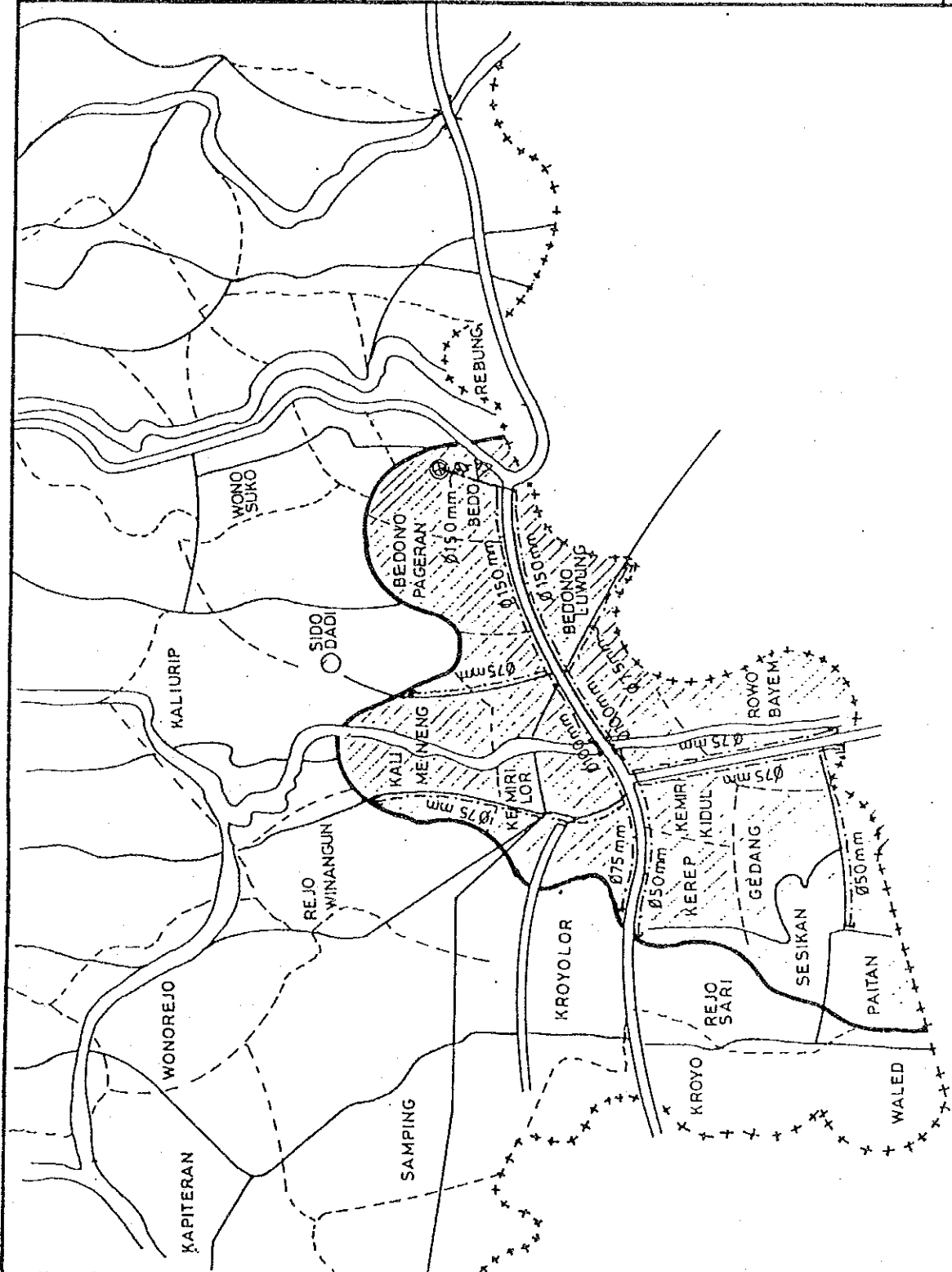


SCALE 1 : 45000

C-15

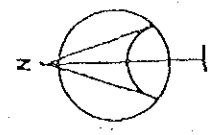
KEMIRI

C-b



**LEGEND**

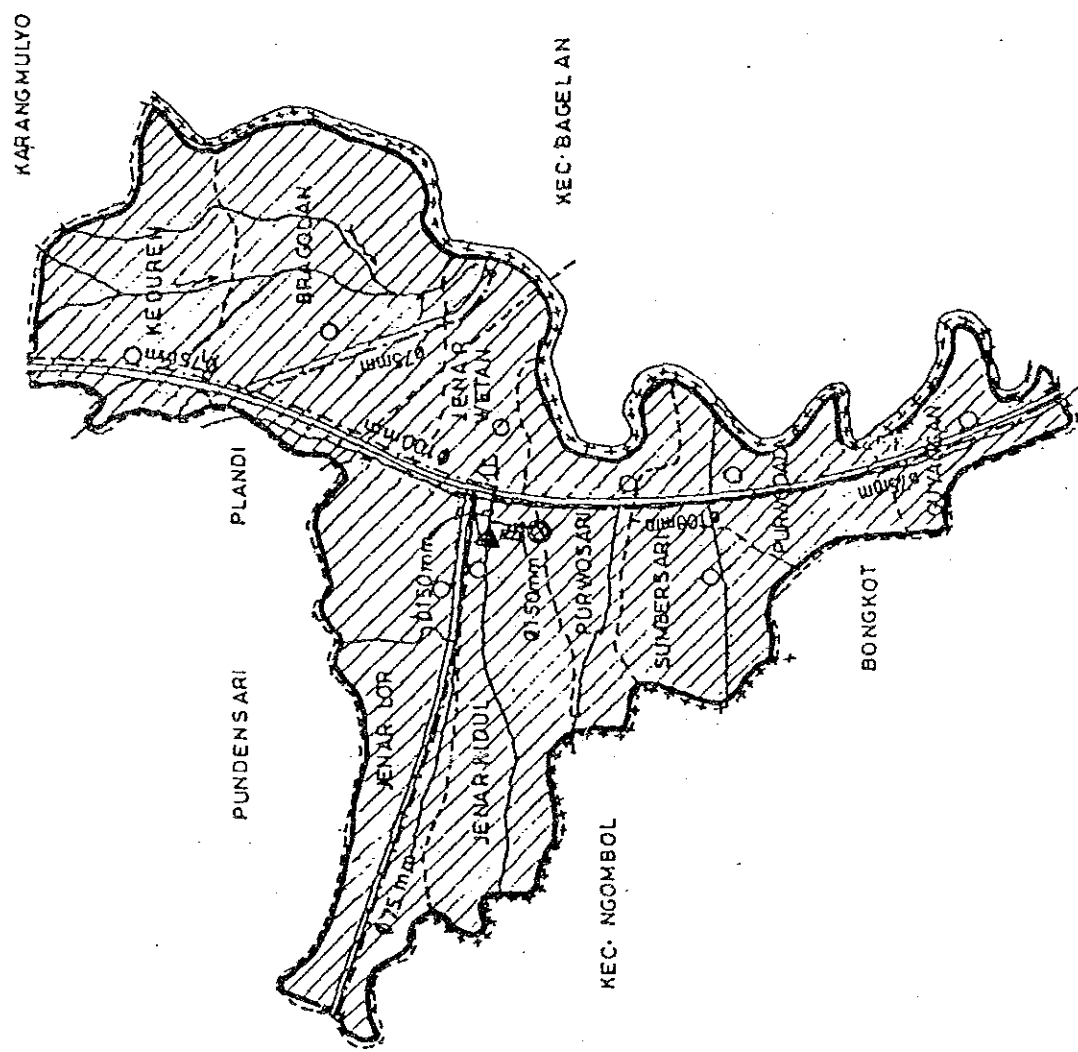
- == MAIN ROAD
- - - - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ ~ ~ RIVER
- ~ ~ ~ RIVER
- DESA OFFICE
- ⬆ KEC. OFFICE
- ▨ IKK AREA
- ⊙ PROPOSED WELL
- ⊞ RESERVOIR
- ▽ ELEVATED TANK
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 42.000

C - 16

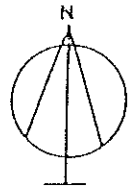
PURWODADI



C - b

**LEGEND**

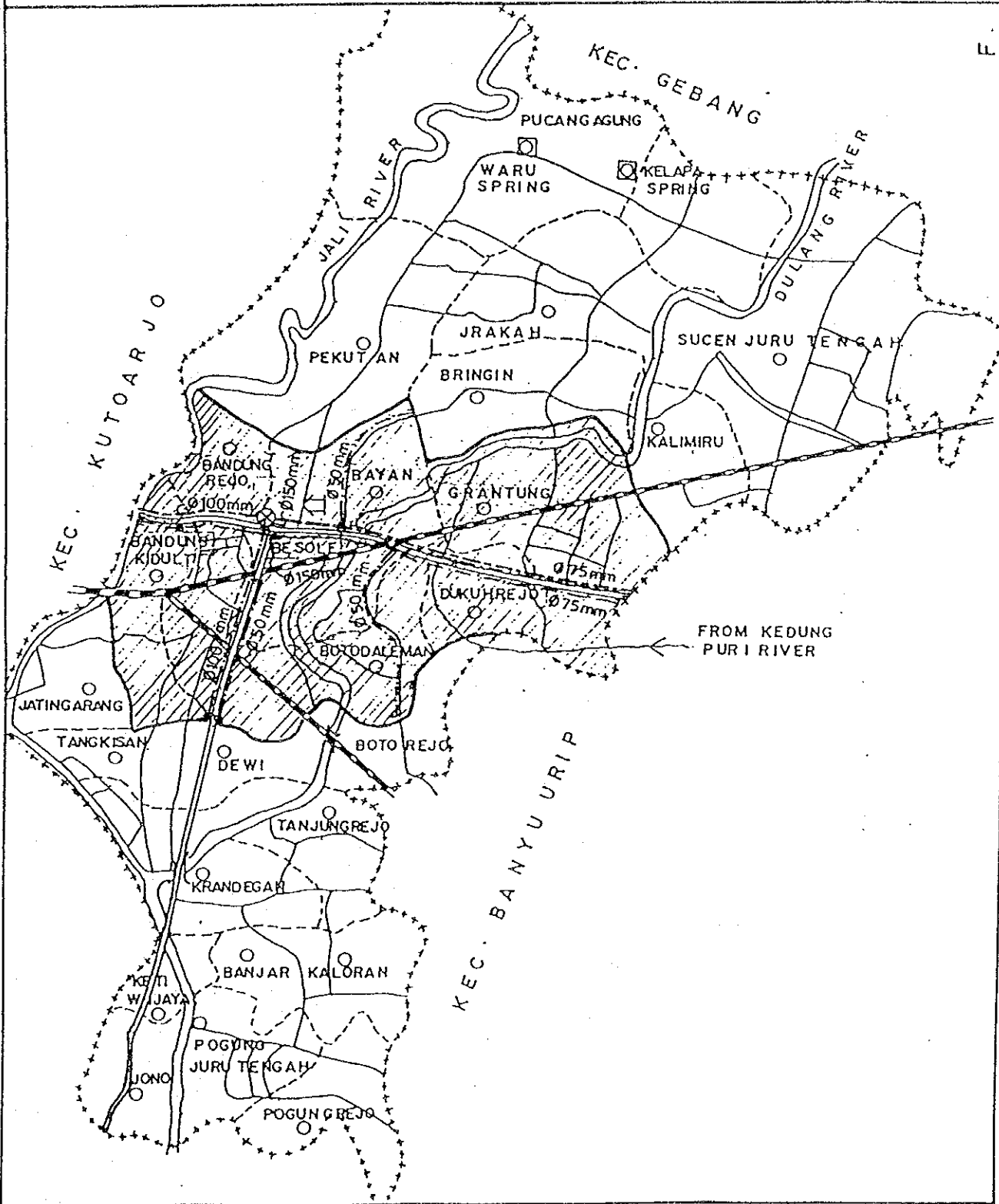
- ==== MAIN ROAD
- DESA ROAD
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- +—+— RAIL WAY
- ~ RIVER
- DESA OFFICE
- ↑ KECAMATAN OFFICE
- ▨ IKK AREA
- ⊗ SPRING
- ⊗ TAPPING POINT
- - - - - EXISTING PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 40,000

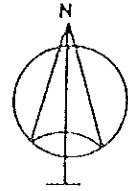
C-17

BAYAN



**LEGEND**

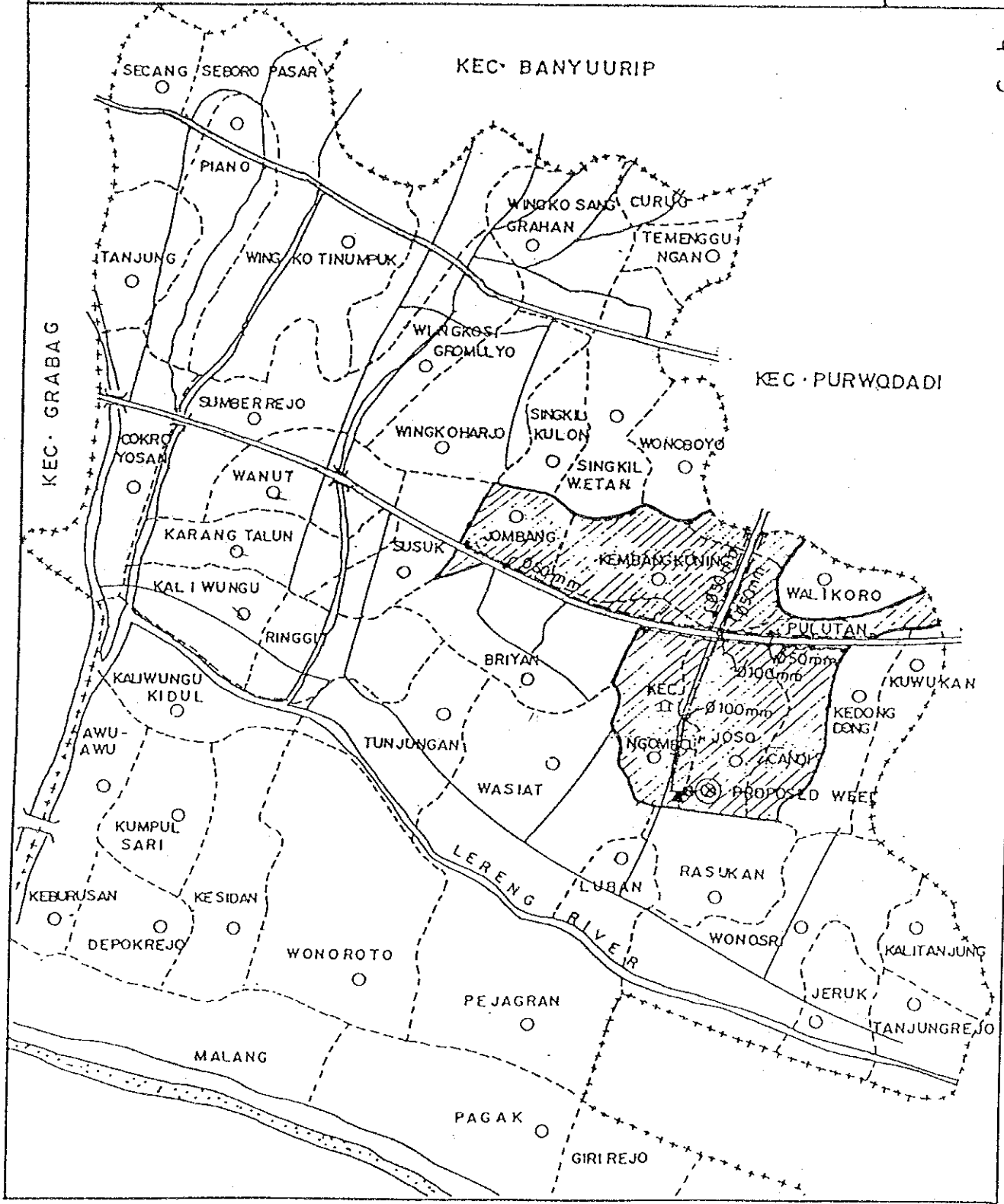
- == MAIN ROAD
- DESA ROAD
- - - - - KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- DESA OFFICE
- ⊥ KECAMATAN OFFICE
- ▨ IKK. AREA
- ⊗ PROPOSED WELL
- ▨ RESERVOIR
- ▽ ELEVATED TANK
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE : 1 : 36.000

C-18

NGOMBOL

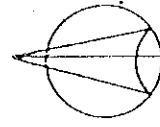


C-b



LEGEND

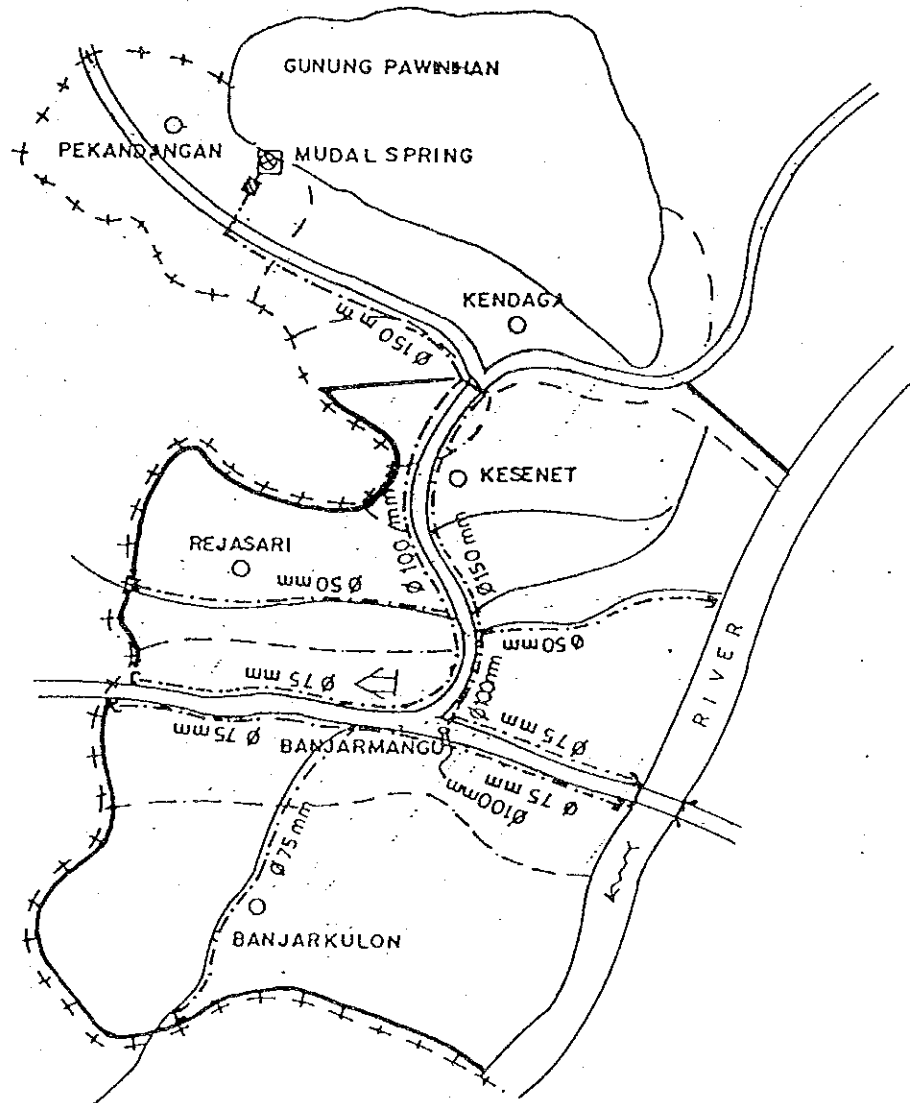
- == MAIN ROAD
- DESA ROAD
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- KECAMATAN OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED SPRING
- ▭ RESERVOIR
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 24 000

C-19

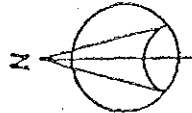
BANJARMANGU



A-2

**LEGEND**

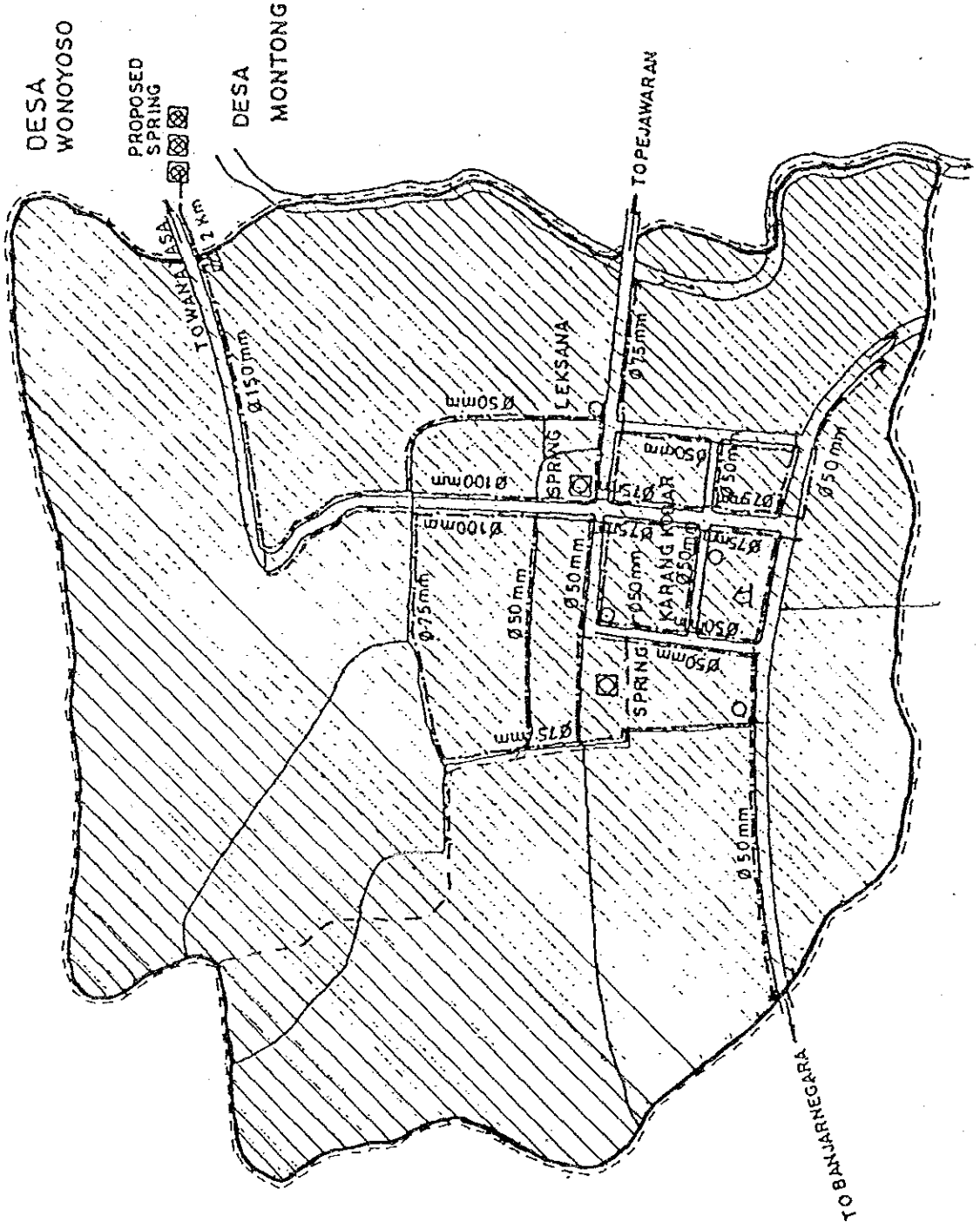
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ~ RIVER
- ⌈ KEC. OFFICE
- DESA OFFICE
- ◻ SPRING
- ▨ IKK AREA
- ⊠ PROPOSED SPRING
- ▤ RESERVOIR
- - - DISTRIBUTION PIPE LINE
- PIPE LINE
- - - TRANSMISSION PIPE LINE



SCALE 1 : 50000

C-20

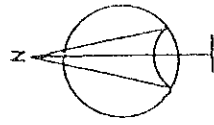
KARANGKOBAR



A-a

**LEGEND**

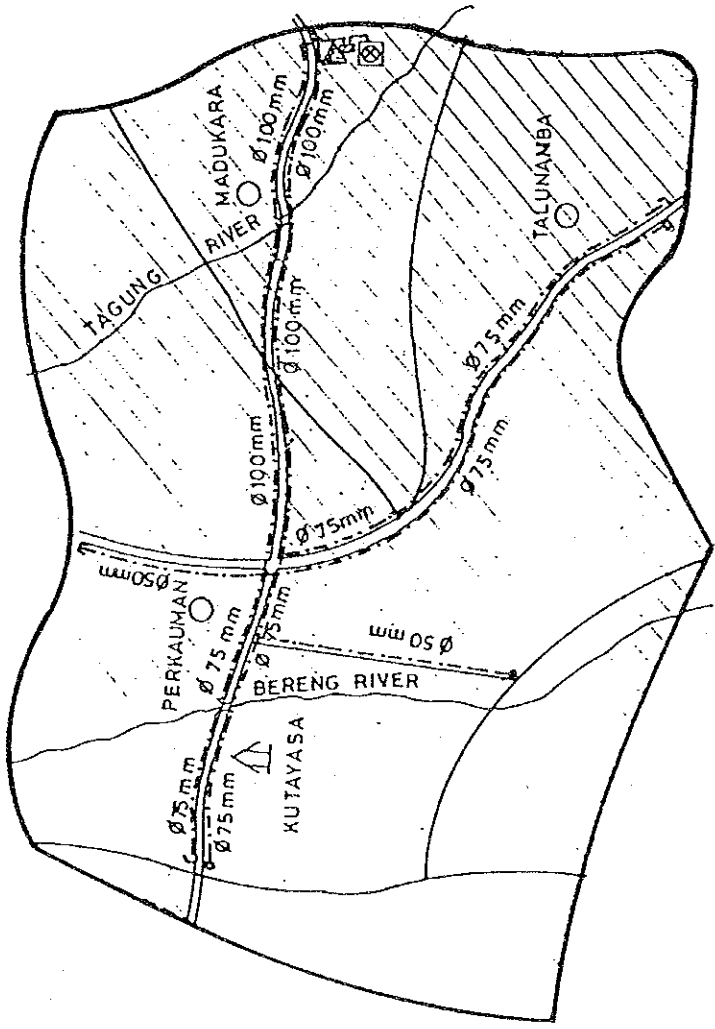
- == MAIN ROAD
- - - DESA ROAD
- ~ RIVER
- DESA OFFICE
- ↑ KEC. OFFICE
- ▨ IKK. AREA
- ⊗ PROPOSED SPRING
- ▣ RESERVOIR
- ▽ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1:16.000

C - 21

**MADUKARA**



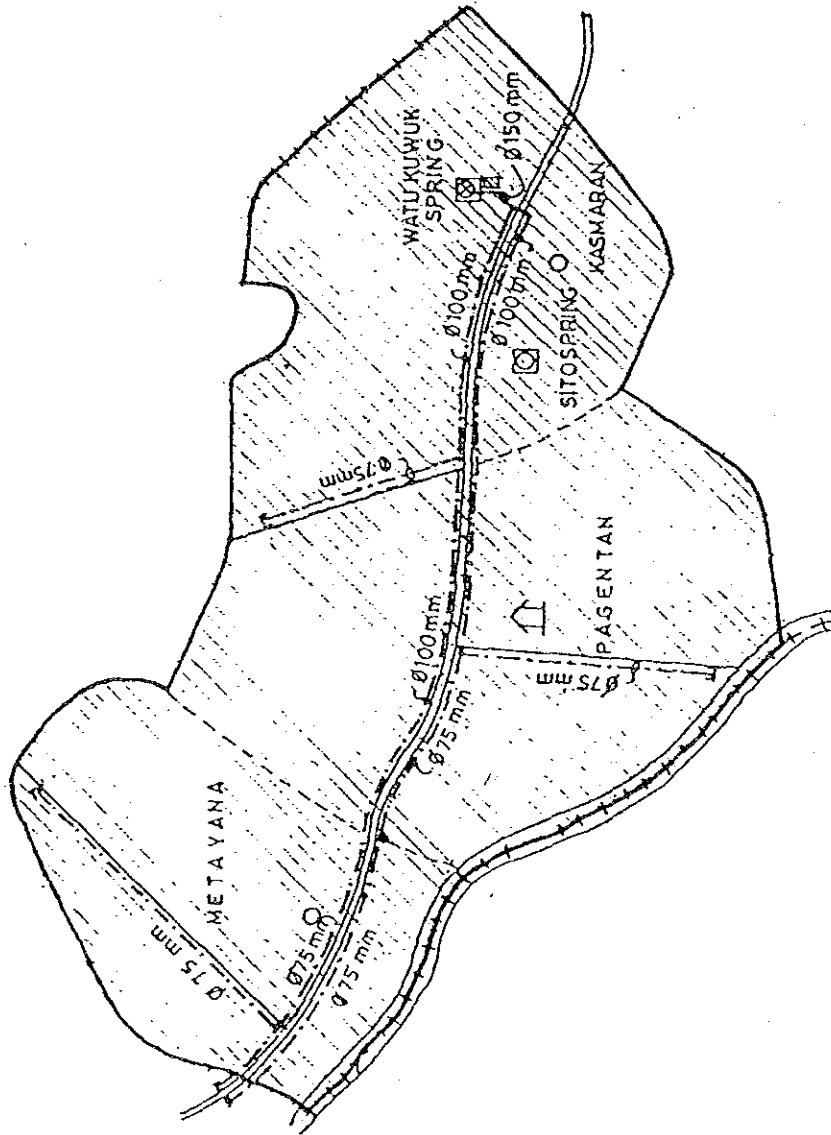
B - b

LEGEND

- == MAIN ROAD
- DESA ROAD
- - - - - KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- ▲ = KEC. OFFICE
- = DESA OFFICE
- ◻ = SPRING
- ▨ = IKK AREA
- ⊗ = PROPOSED SPRING
- ⊘ = RESERVOIR
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE

SCALE 1 : 20.000  
C-22

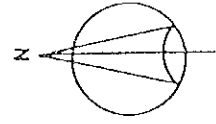
PAGENTAN



A - a

**LEGEND**

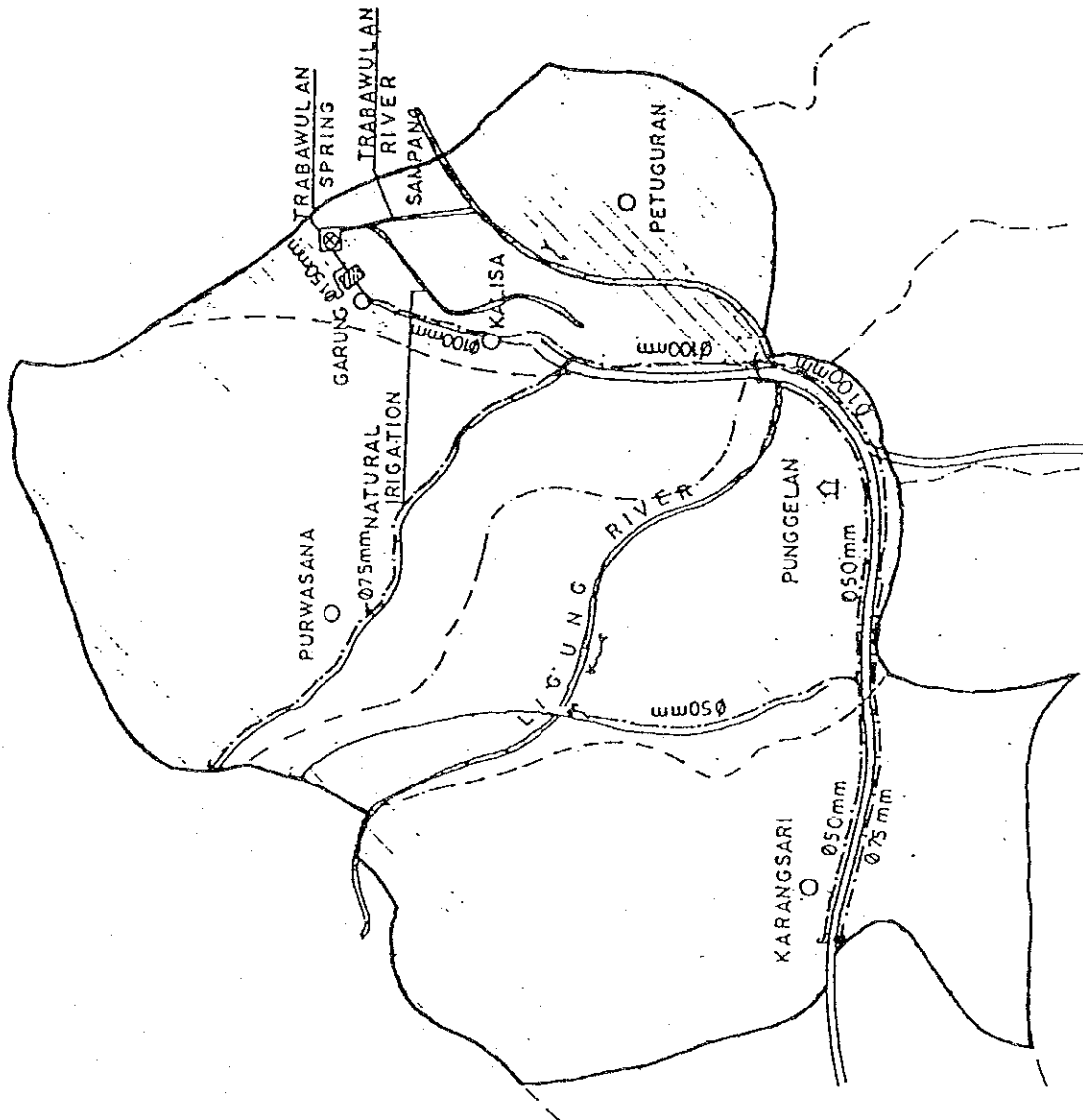
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ~ RIVER
- DESA OFFICE
- ⊕ KEC. OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED SPRING
- ▤ RESERVOIR
- - - DISTRIBUTION PIPE LINE
- - - TRANSMISSION PIPE LINE



SCALE 1 : 17.000

C-23

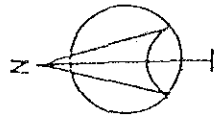
**PUNGGELAN**



B - a

**LEGEND**

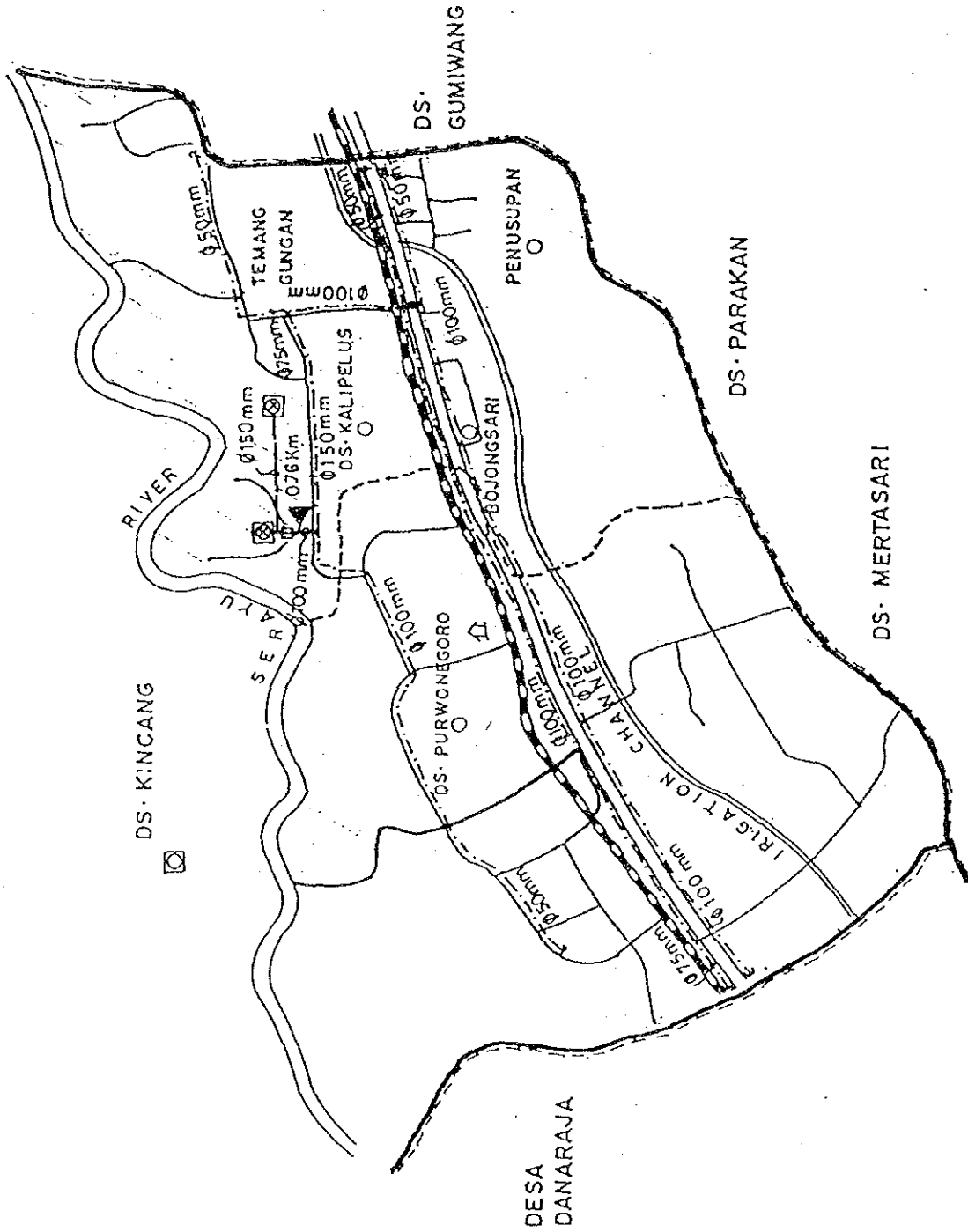
- ==== = MAIN ROAD
- = DESA ROAD
- = RAILWAY
- - - = DESA BOUNDARY
- ⌈ = KEC. OFFICE
- = DESA OFFICE
- ⊗ = SPRING
- ▨ = IKK. AREA
- ⊠ = PROPOSED WELL
- ⊞ = RESERVOIR
- ▲ = ELEVATED TANK
- · — · — = TRANSMISSION PIPE LINE
- · - · - · - = DISTRIBUTION PIPE LINE



SCALE 1 : 42.000

C-24

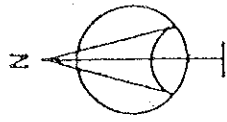
PURWONEGORO



B - b

**LEGEND**

- == MAIN ROAD
- DESA ROAD
- - - - - KAB. BOUNDARY
- + + + + + KEC BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- ~ RIVER
- ⊙ = KEC. OFFICE
- = DESA OFFICE
- ⊠ = SPRING
- ▨ = IKK AREA
- ⊠ = PROPOSED SPRING
- ⊠ = RESERVOIR
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE

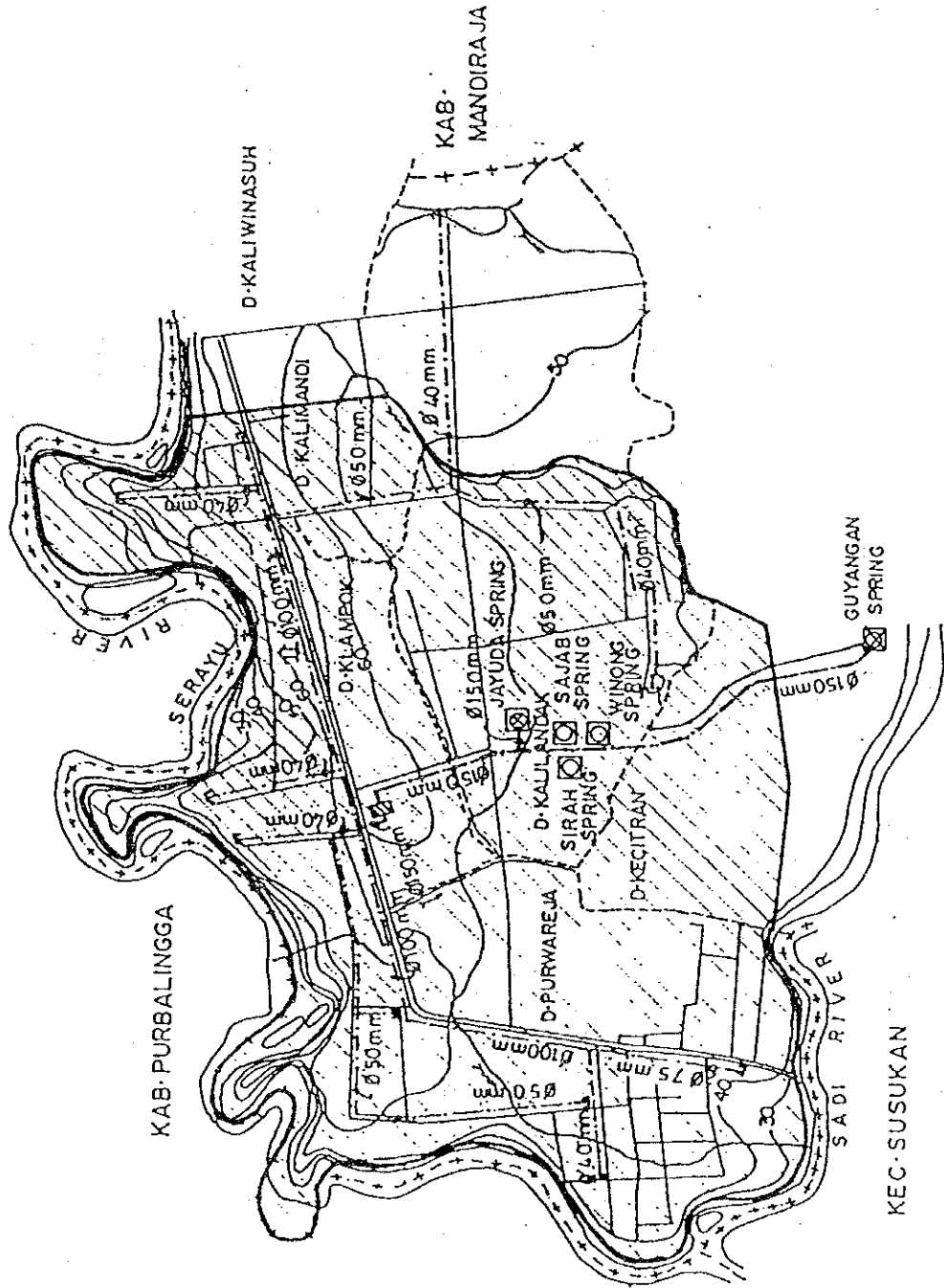


SCALE 1 : 36.000

C-25

PURWOREJO

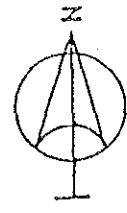
KLAMPOK



B-a

**LEGEND**

- ▬ MAIN ROAD
- ▬ DESA ROAD
- - - DESA BOUNDARY
- ~ RIVER
- ⊠ KEC. OFFICE
- DESA OFFICE
- SPRING
- ▨ I K K AREA
- ⊗ PROPOSED WELL
- ⊞ RESERVOIR
- ▲ ELEVATED TANK
- TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE

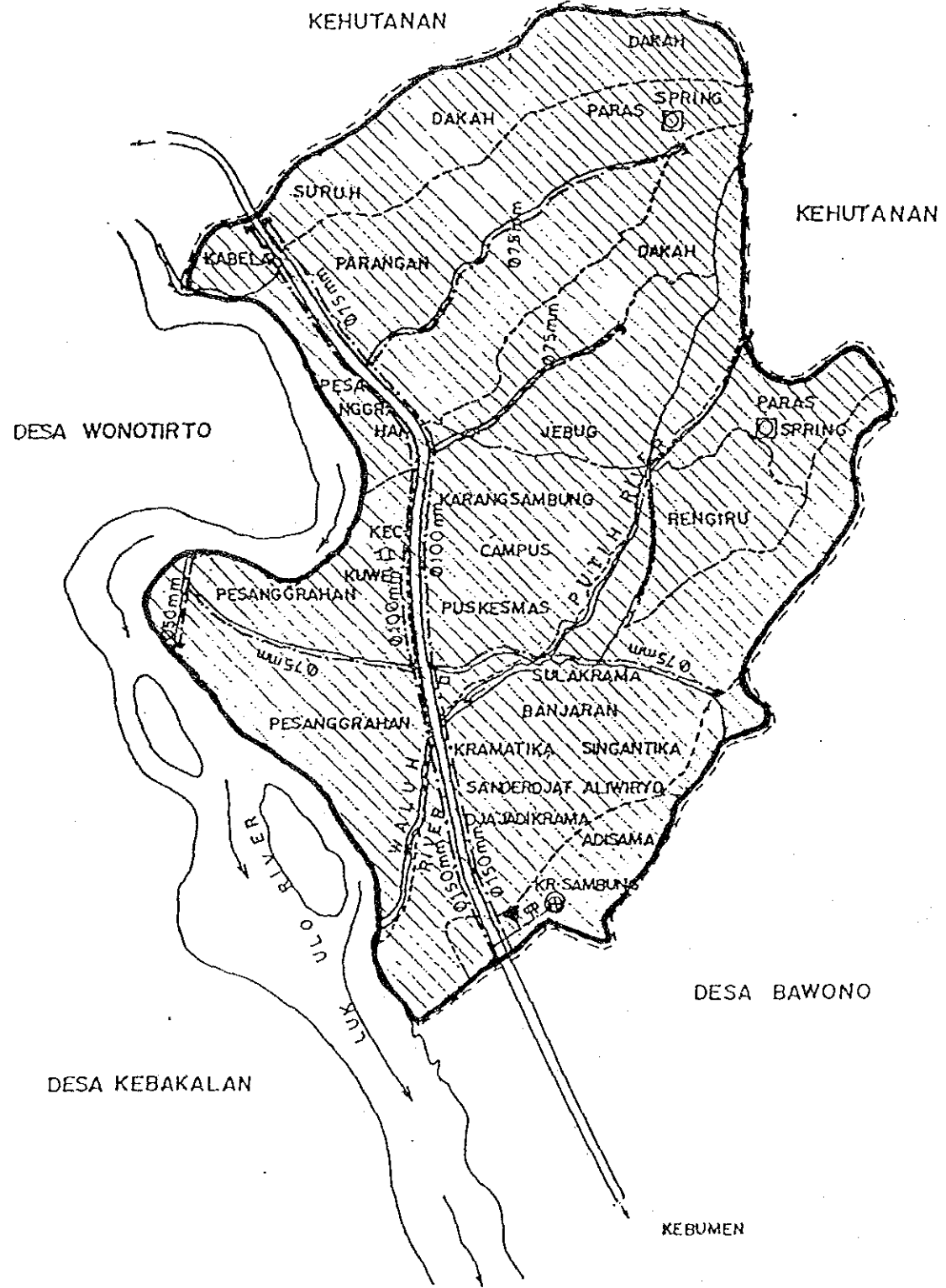


SCALE 1 : 15.000

C-26

**KARANGSAMBUNG**

C-b





**LEGEND**

- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ⊥ KEC. OFFICE
- DESA OFFICE
- ▨ IKK. AREA
- ⊗ PROPOSED WELL
- ⊘ RESERVOIR
- ▽ ELEVATED TANK
- · - · - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE

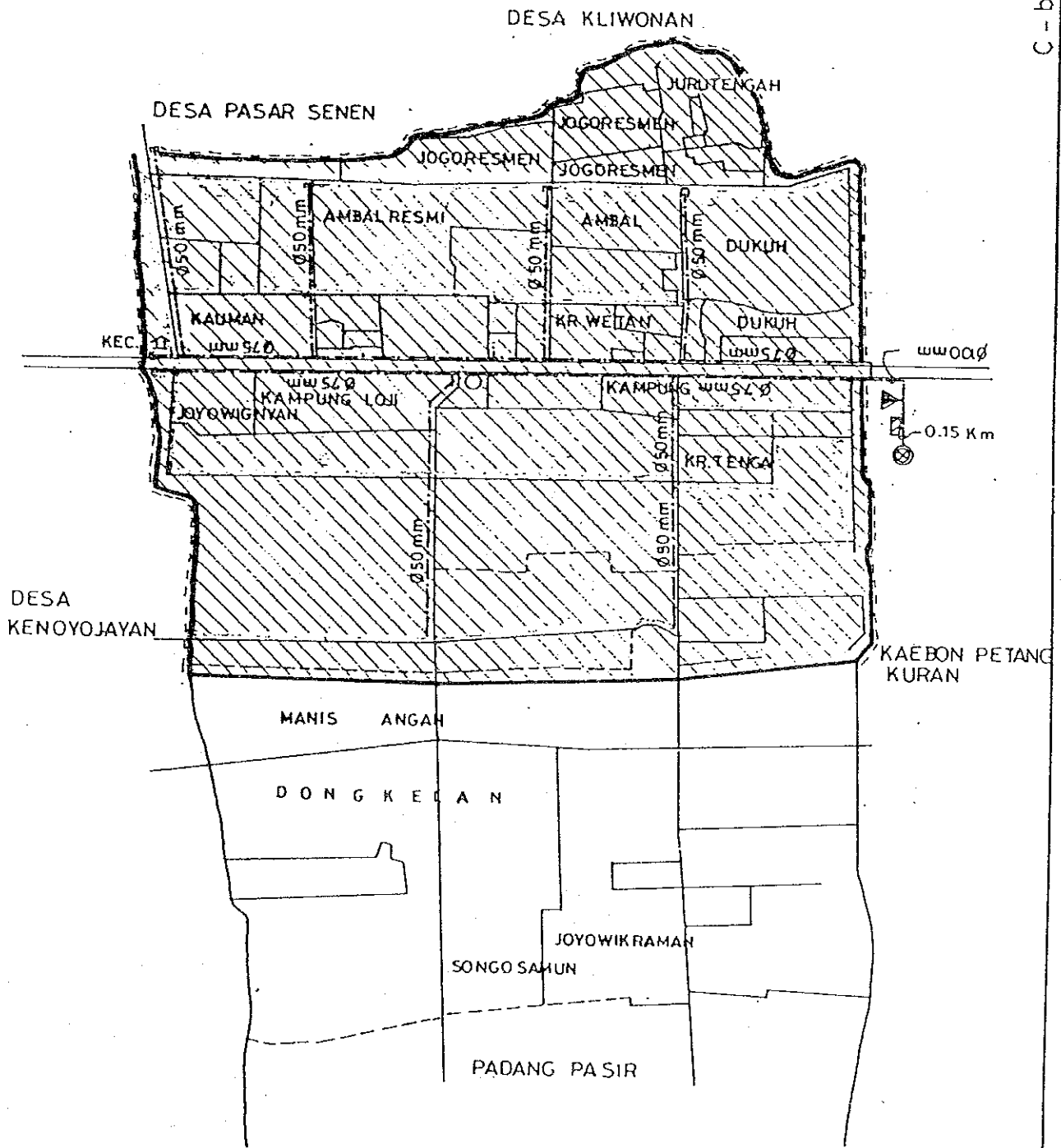


SCALE 1 : 15.000

C-27

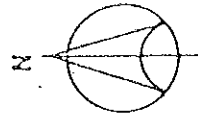
**AMBALRESMI**

C-b



**LEGEND**

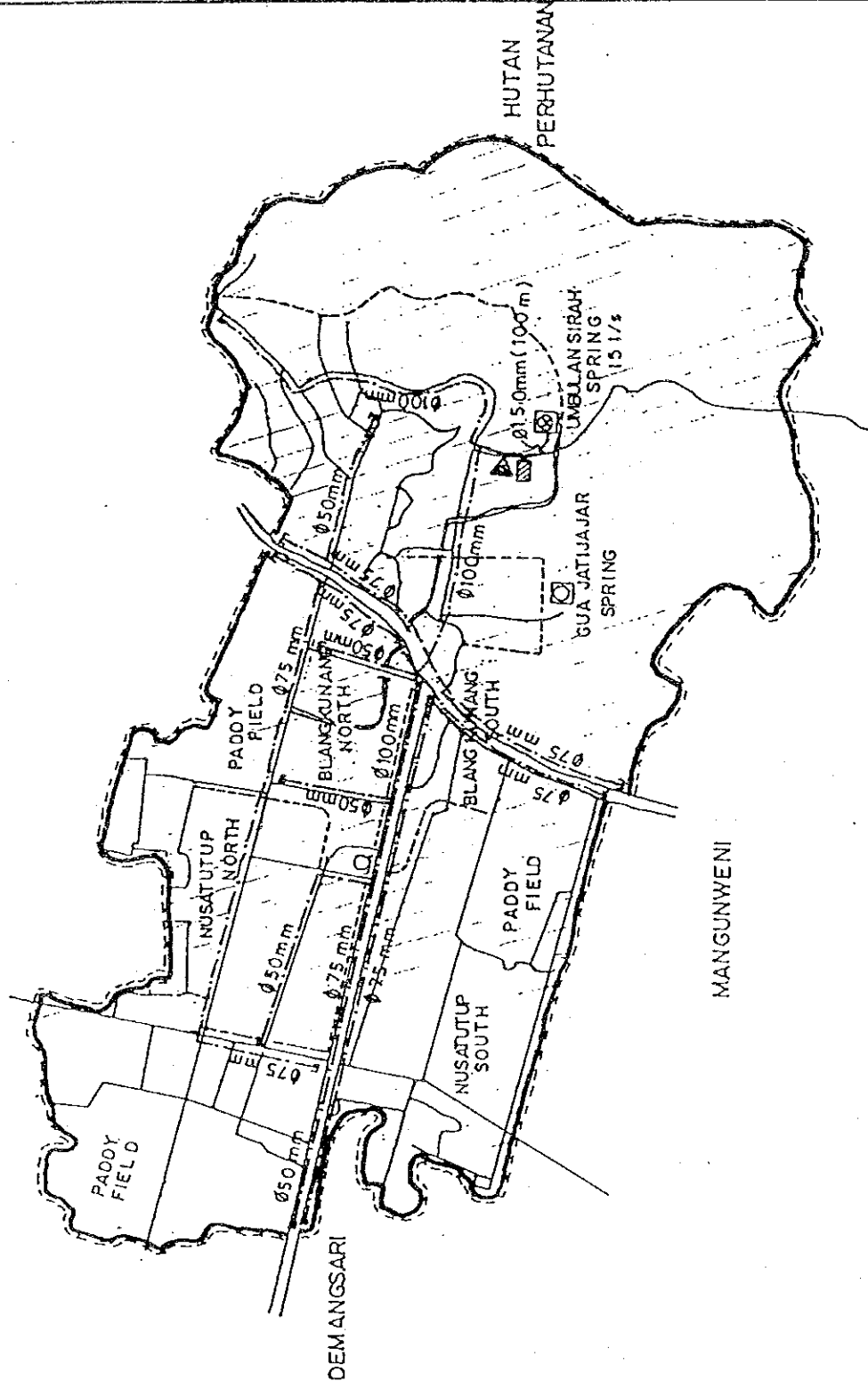
- = MAIN ROAD
- = DESA ROAD
- = DESA BOUNDARY
- = RIVER
- = KEC. OFFICE
- = DESA OFFICE
- = SPRING
- = IKK AREA
- = PROPOSED SPRING
- = RESERVOIR
- = ELEVATED TANK
- = TRANSMISSION PIPE LINE
- = DISTRIBUTION PIPE LINE



SCALE 1 : 15.000

C-28

DEMANGSARI



C-b

**LEGEND**

- = MAIN ROAD
- - - = DESA ROAD
- + + + = KEC. BOUNDARY
- - - = DESA BOUNDARY
- ~ ~ ~ = RIVER
- ▲ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK. AREA
- ⊕ = PROPOSED WELL
- ⊗ = RESERVOIR
- ▽ = ELEVATED TANK
- - - = DISTRIBUTION PIPE LINE



SCALE 1 : 25.000

C-29

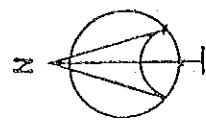
**SETROJENAR**

C-b



**LEGEND**

- == MAIN ROAD
- DESA ROAD
- + + + KEC. BOUNDARY
- - - DESA BOUNDARY
- ~ RIVER
- ⬆ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ TAPPING POINT
- - - EXISTING PIPE LINE
- - - DISTRIBUTION PIPE LINE

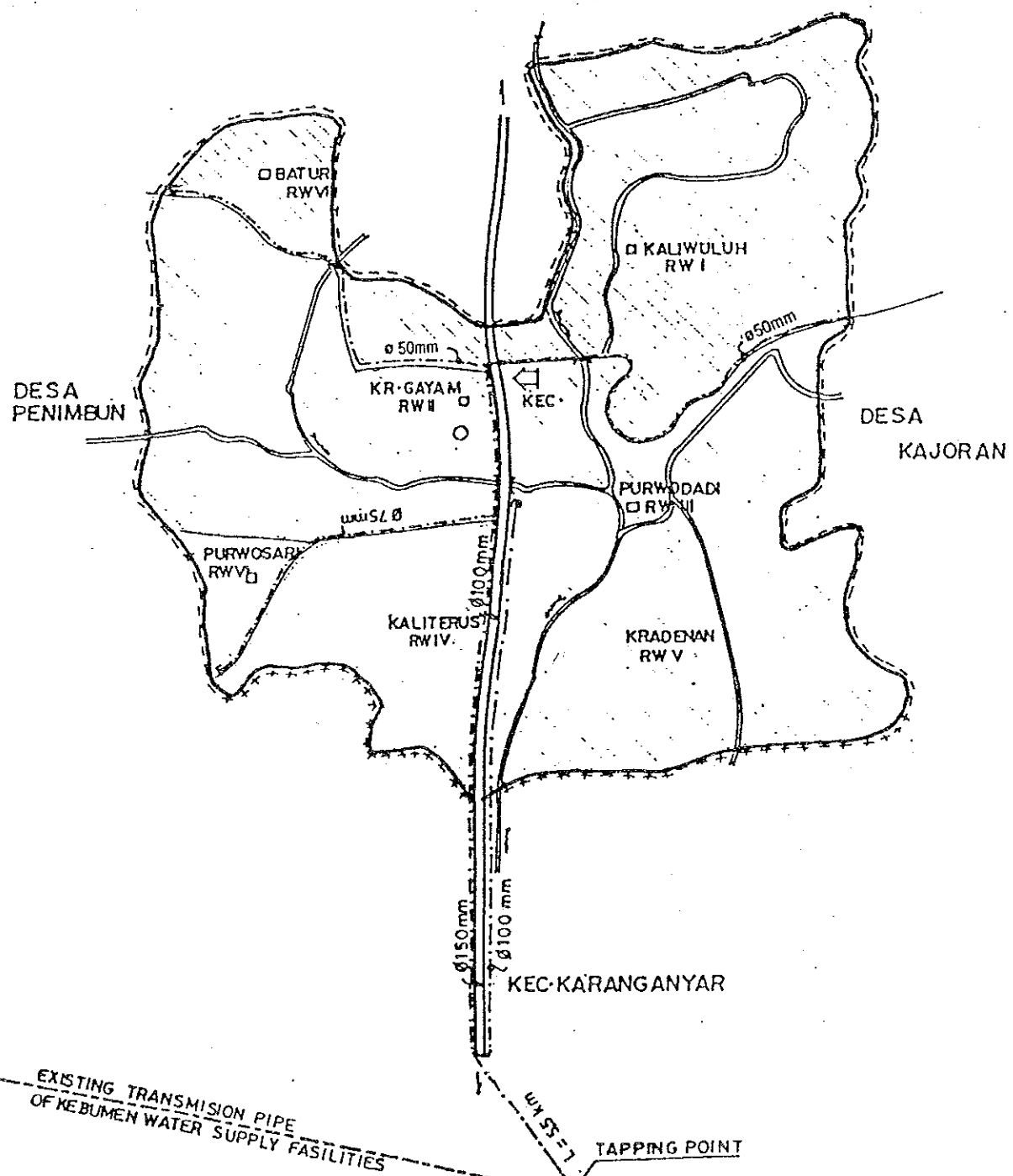


SCALE 1 : 15.000  
C-30

KARANGGAYAM

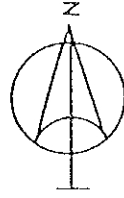
DESA KARANG MOJO

F



**LEGEND**

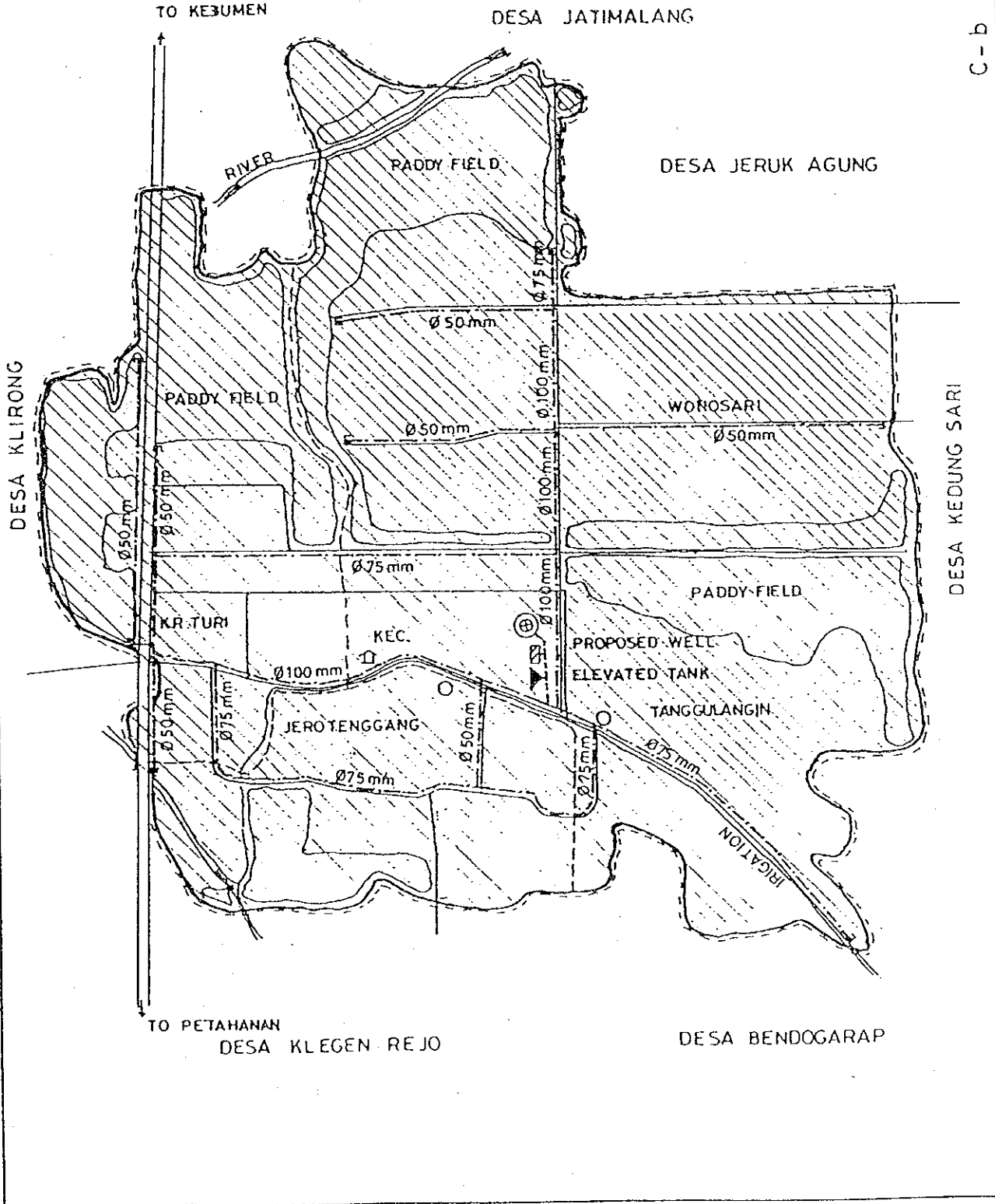
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ~ RIVER
- ⇧ KECAMATAN OFFICE
- DESA OFFICE
- ▨ I.K.K. AREA
- ⊗ PROPOSED WELL
- ⊞ RESERVOIR
- ▲ ELEVATED TANK
- - - DISTRIBUTION PIPE LINE
- - - TRANSMISSION PIPE LINE



SCALE 1 : 15.000

C-31

KLEGENWONOSARI



C - b

**LEGEND**

- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ⊠ KECAMATAN OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED WELL
- ⊞ RESERVOIR
- ▽ ELEVATED TANK
- TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE

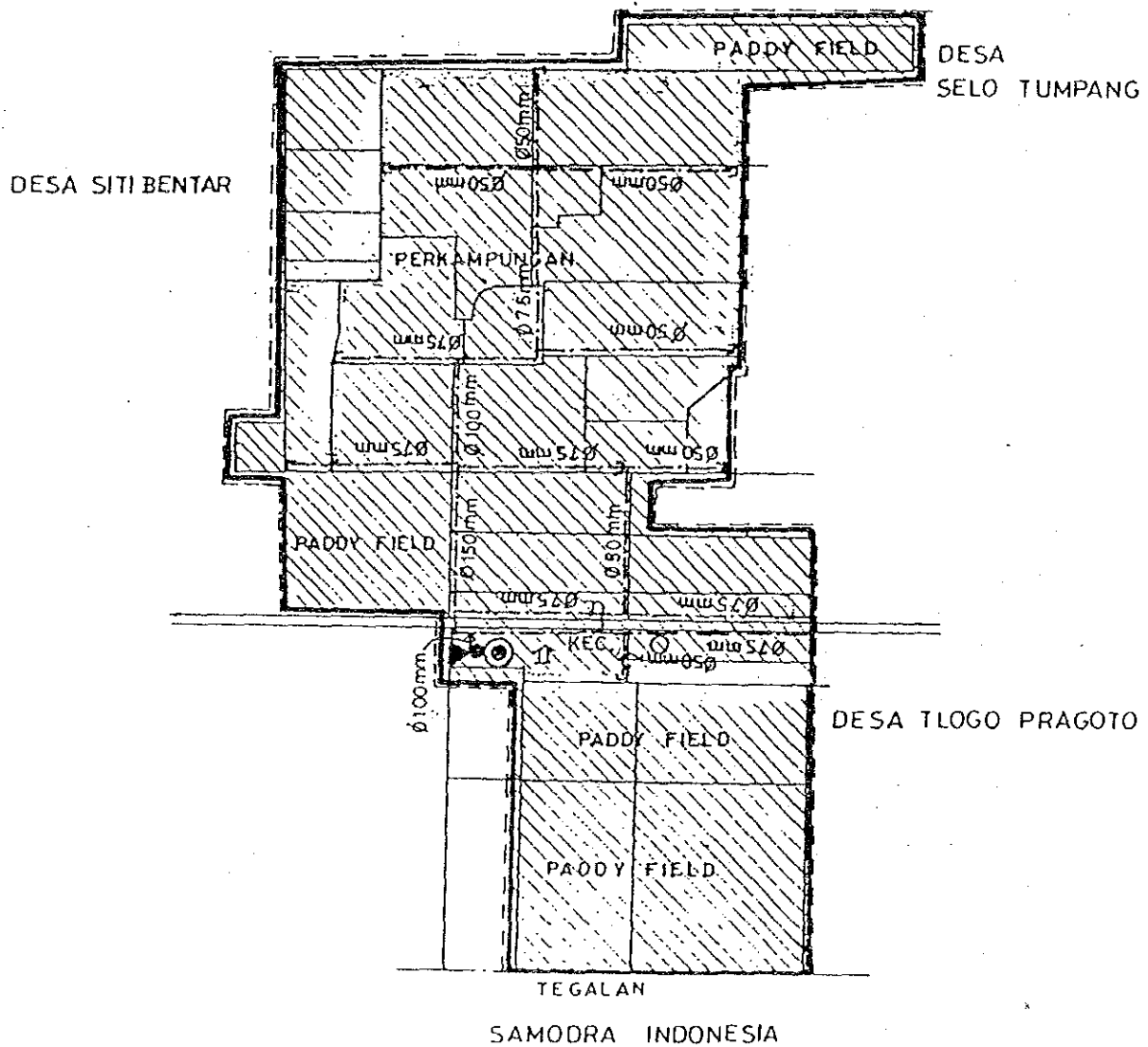


SCALE 1 : 40.000

C-32

MIRIT

C-b



**LEGEND**

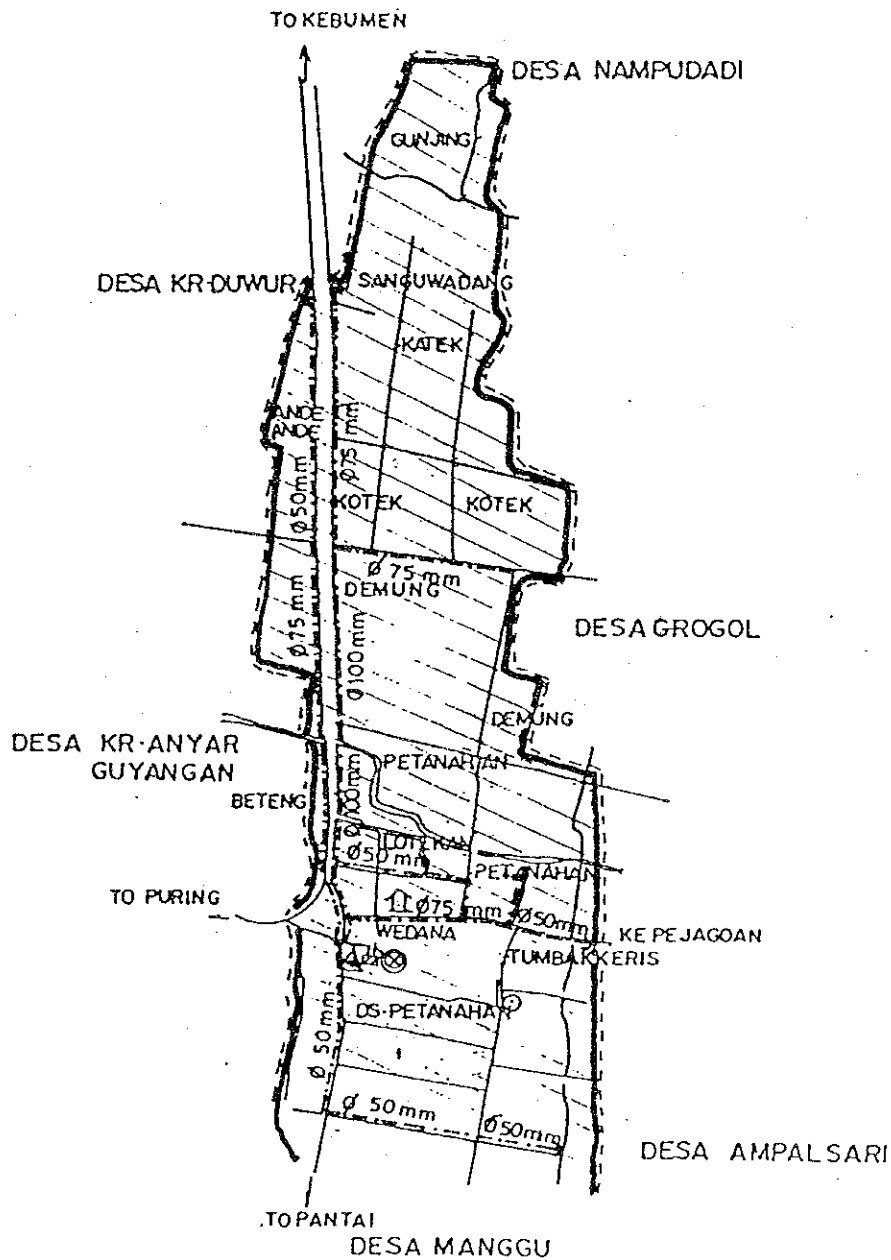
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ~ RIVER
- ⊕ = KEC. OFFICE
- = DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED WELL
- ⊞ RESERVOIR
- ⚡ ELEVATED TANK
- TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 25 000

C-33

**PETANAHAH**



C-b

**LEGEND**

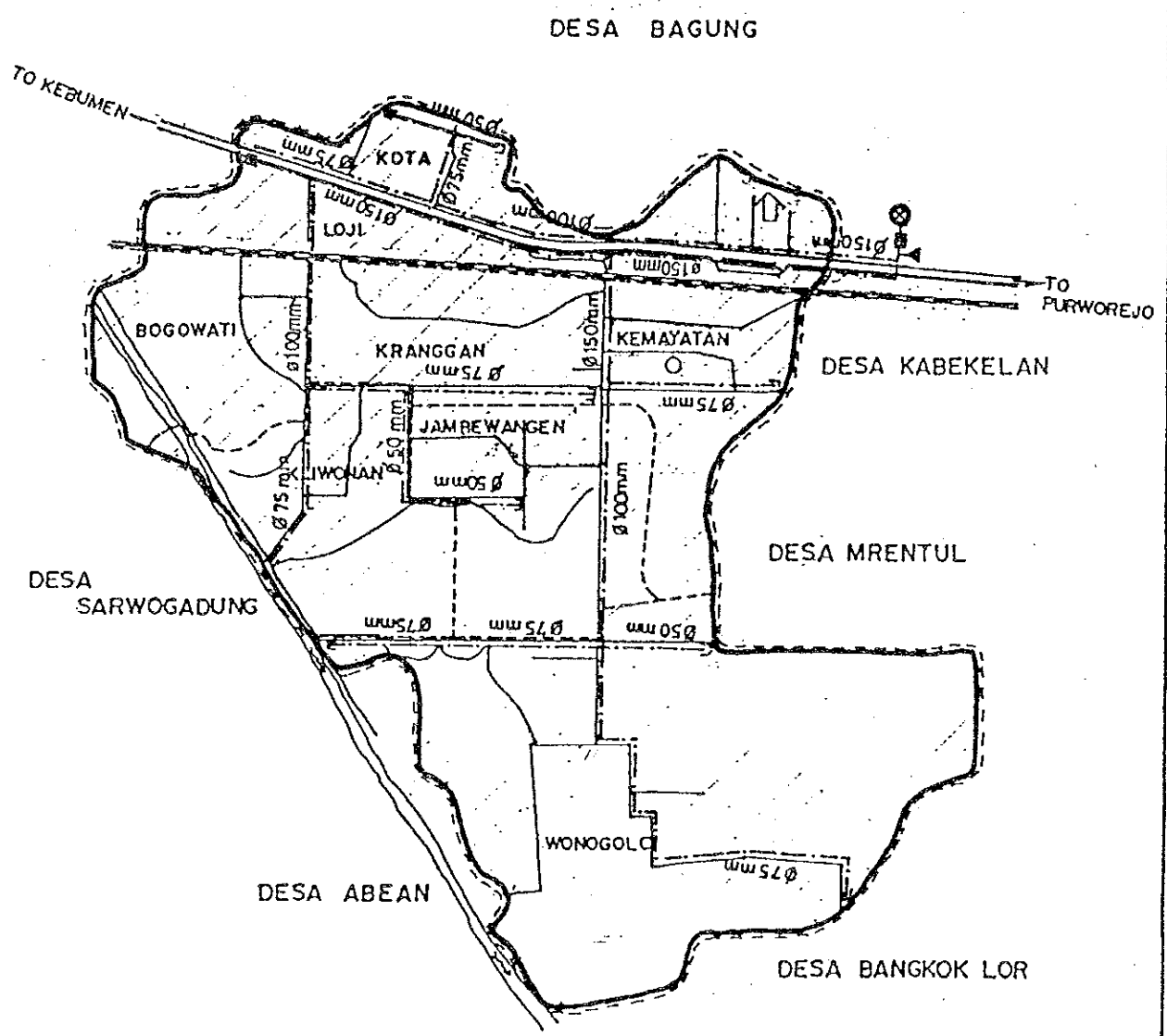
- == MAIN ROAD
- DESA ROAD
- RAILWAY
- - - DESA BOUNDARY
- ~ RIVER
- ⌘ KEC OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED WELL
- ⊞ RESERVOIR
- ▲ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 40.000  
C-34

PREMBUN

C-b





**LEGEND**

- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ~ RIVER
- ⬆ KEC. OFFICE
- DESA OFFICE
- ⊙ SPRING
- ▨ IKK. AREA
- ⊕ PROPOSED WELL
- ⊗ RESERVOIR
- △ ELEVATED TANK
- - - - - DISTRIBUTION PIPE LINE

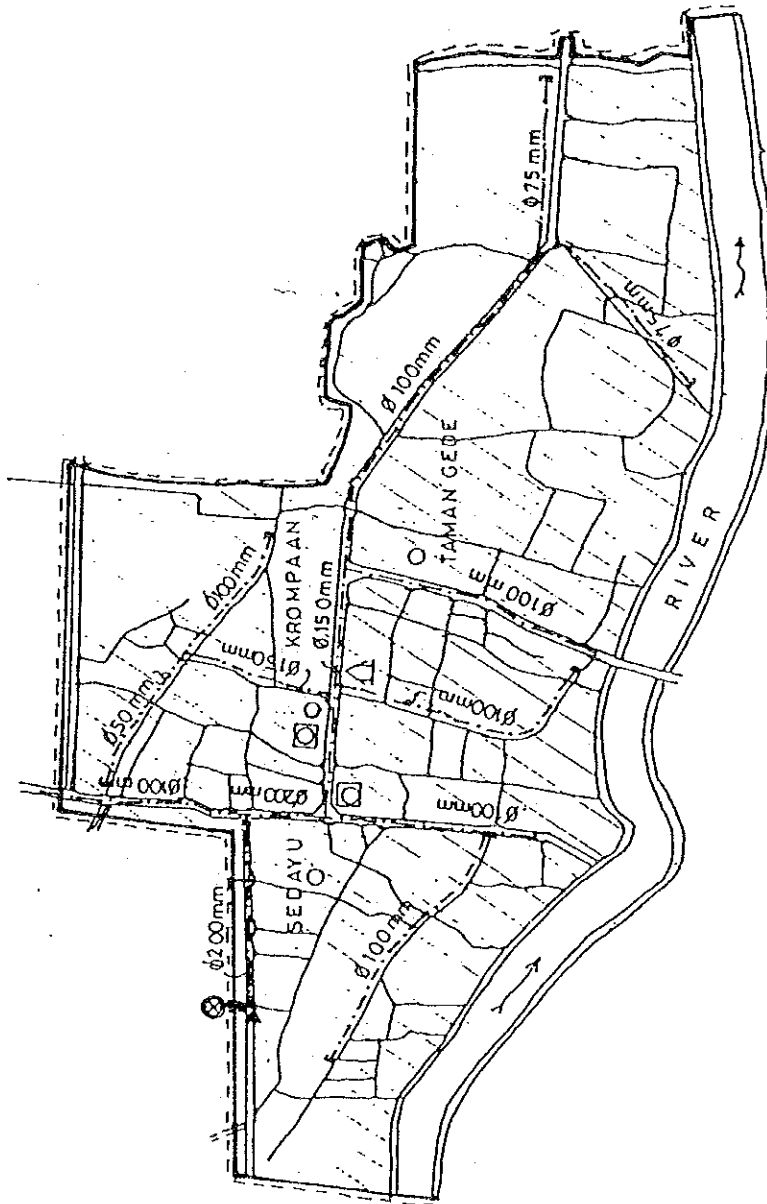


SCALE 1 : 30.000

C-35

GEMUH

D. GEBANG



B - b

**LEGEND**

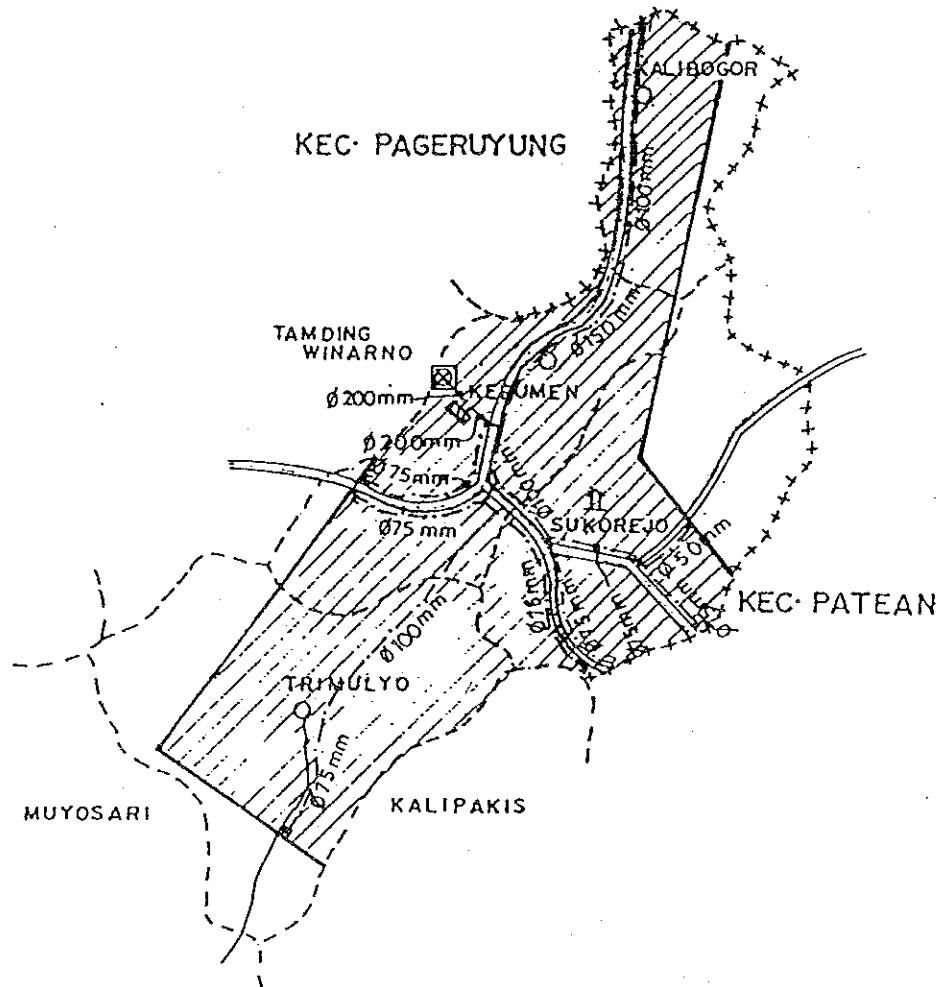
- ==== = MAIN ROAD
- = DESA ROAD
- + + + = KEC. BOUNDARY
- - - = DESA BOUNDARY
- = DESA OFFICE
- ↑ = KECAMATAN OFFICE
- [Hatched Box] = IKK AREA
- [Square with X] = PROPOSED SPRING
- [Zigzag Box] = RESERVOIR
- - - = TRANSMISSION PIPE LINE
- · - · = DISTRIBUTION PIPE LINE



SCALE 1 : 27.000

C-36

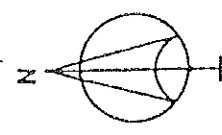
SUKOREJO



A-a

**LEGEND**

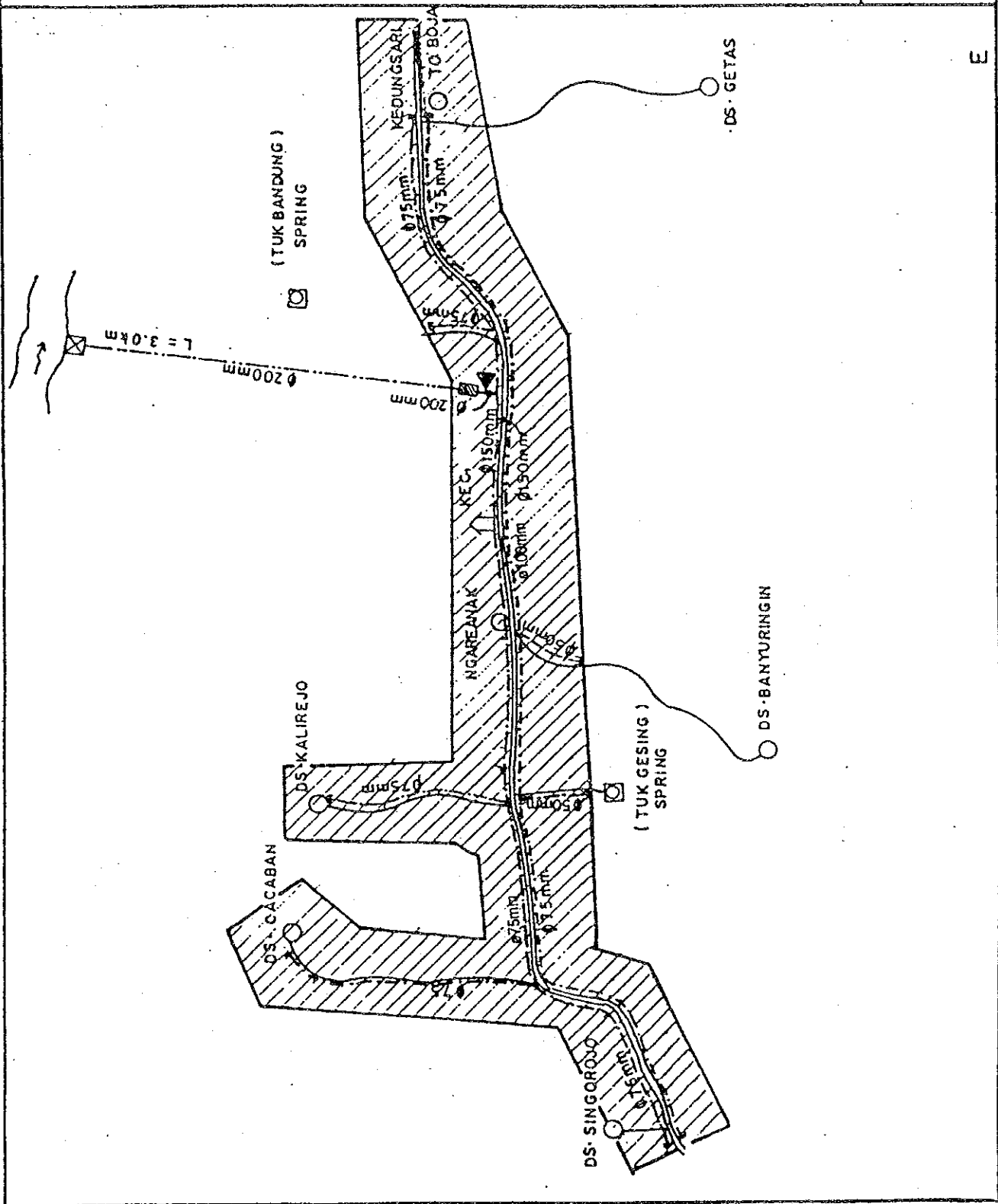
- == MAIN ROAD
- DESA ROAD
- DESA OFFICE
- ⬆ KECAMATAN OFFICE
- ▨ I K K · AREA
- ⊠ SPRING
- ⊠ PURIFICATION PLANT
- ⊠ RESERVOIR
- ⊠ ELEVATED TANK
- TRANSMISSION PIPE LINE
- DISTRIBUTION PIPE LINE



SCALE 1 : 32·000

C-37

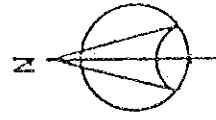
**SINGOROJO**



E

**LEGEND**

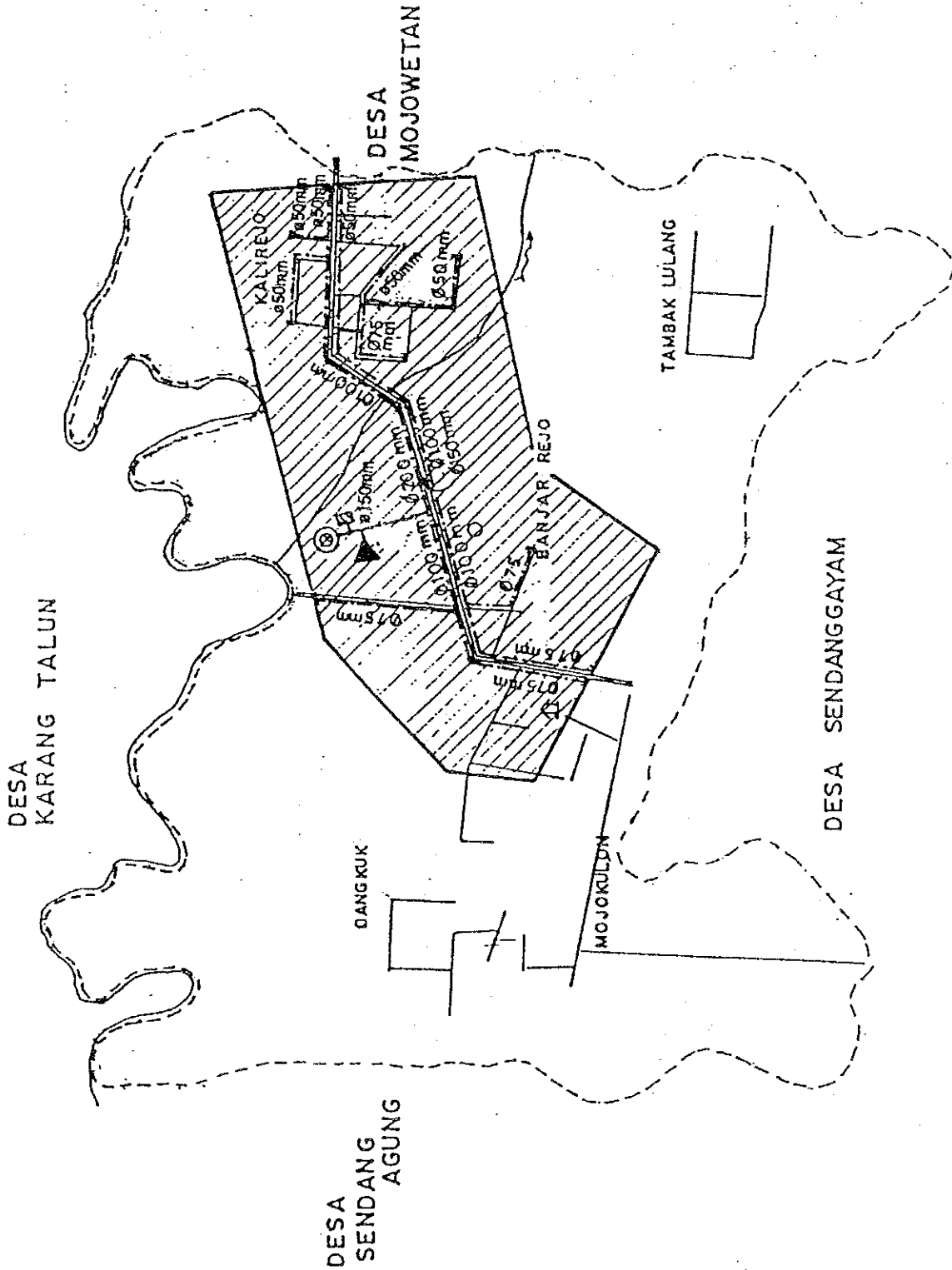
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ~ RIVER
- ↑ = KEC. OFFICE
- = DESA OFFICE
- ▨ IKK AREA
- ⊕ PROPOSED WELL
- ⊞ RESERVOIR
- ▲ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 20.000

C-38

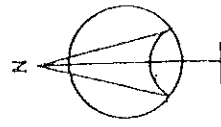
BANJAREJO



D - b

**LEGEND**

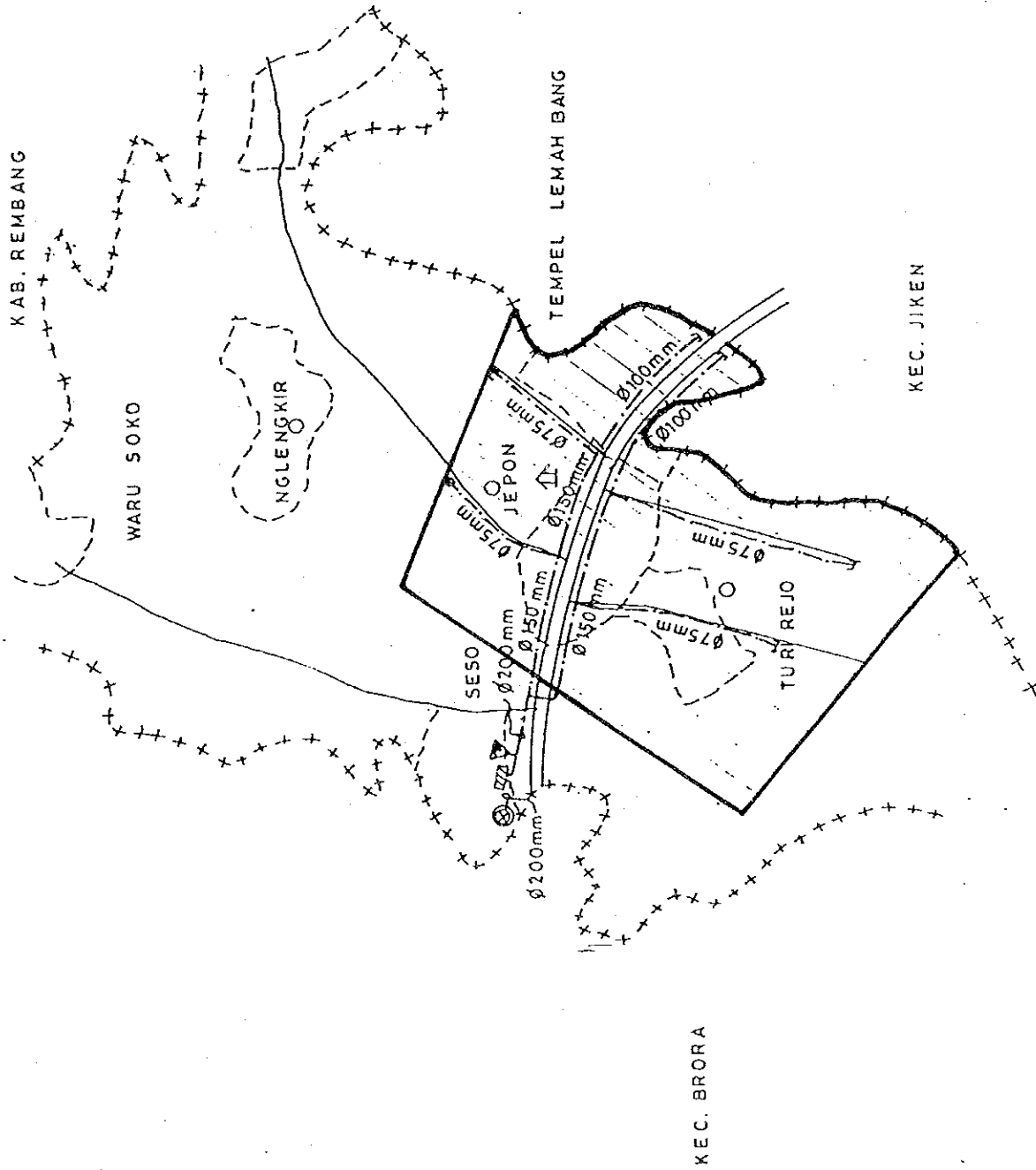
- == MAIN ROAD
- DESA ROAD
- + -+ KAB. BOUNDARY
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ⌄ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = PROPOSED WELL
- ▩ = RESERVOIR
- ▲ = ELEVATED TANK
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 23000

C-39

JEPON



D-a

**LEGEND**

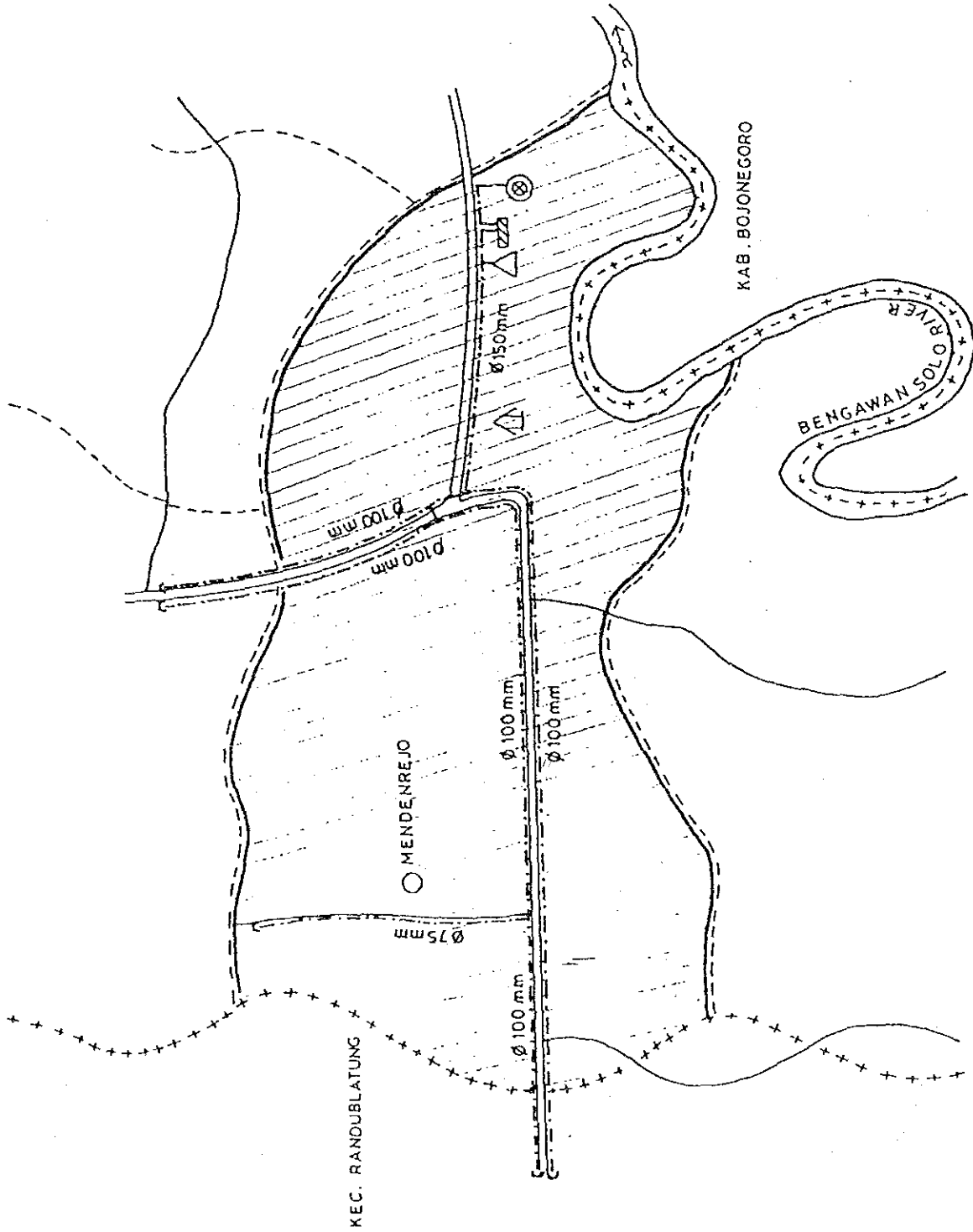
- == MAIN ROAD
- DESA ROAD
- +--+ KAB. BOUNDARY
- +--+--+ KEC. BOUNDARY
- - - DESA BOUNDARY
- ~ RIVER
- ▲ KEC. OFFICE
- DESA OFFICE
- ▨ I.K.K. AREA
- ⊗ PROPOSED WELL
- ▤ RESERVOIR
- ▽ ELEVATED TANK
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 10.000














C-40

MENDENREJO



D-b

**LEGEND**

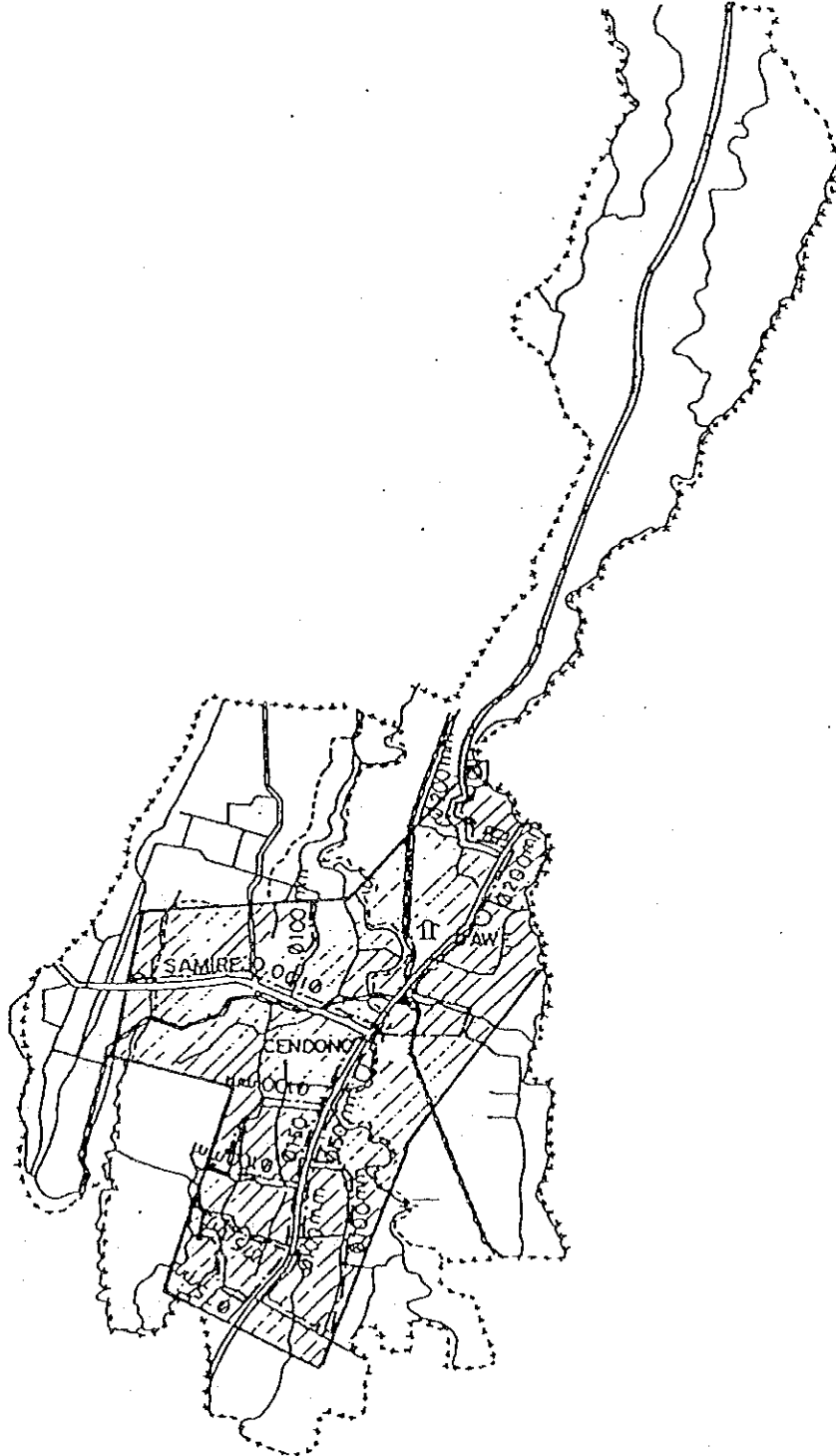
-  = MAIN ROAD
-  = DESA ROAD
-  = RAILWAY
-  = KEC BOUNDARY
-  = DESA BOUNDARY
-  = RIVER
-  = KEC OFFICE
-  = DESA OFFICE
-  = IKK AREA
-  = PROPOSED SPRING
-  = RESERVOIR
-  = DISTRIBUTION PIPE LINE
-  = TRANSMISSION PIPE LINE



SCALE 1 : 50-000

C-41

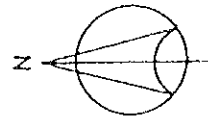
DAWE



B-a

**LEGEND**

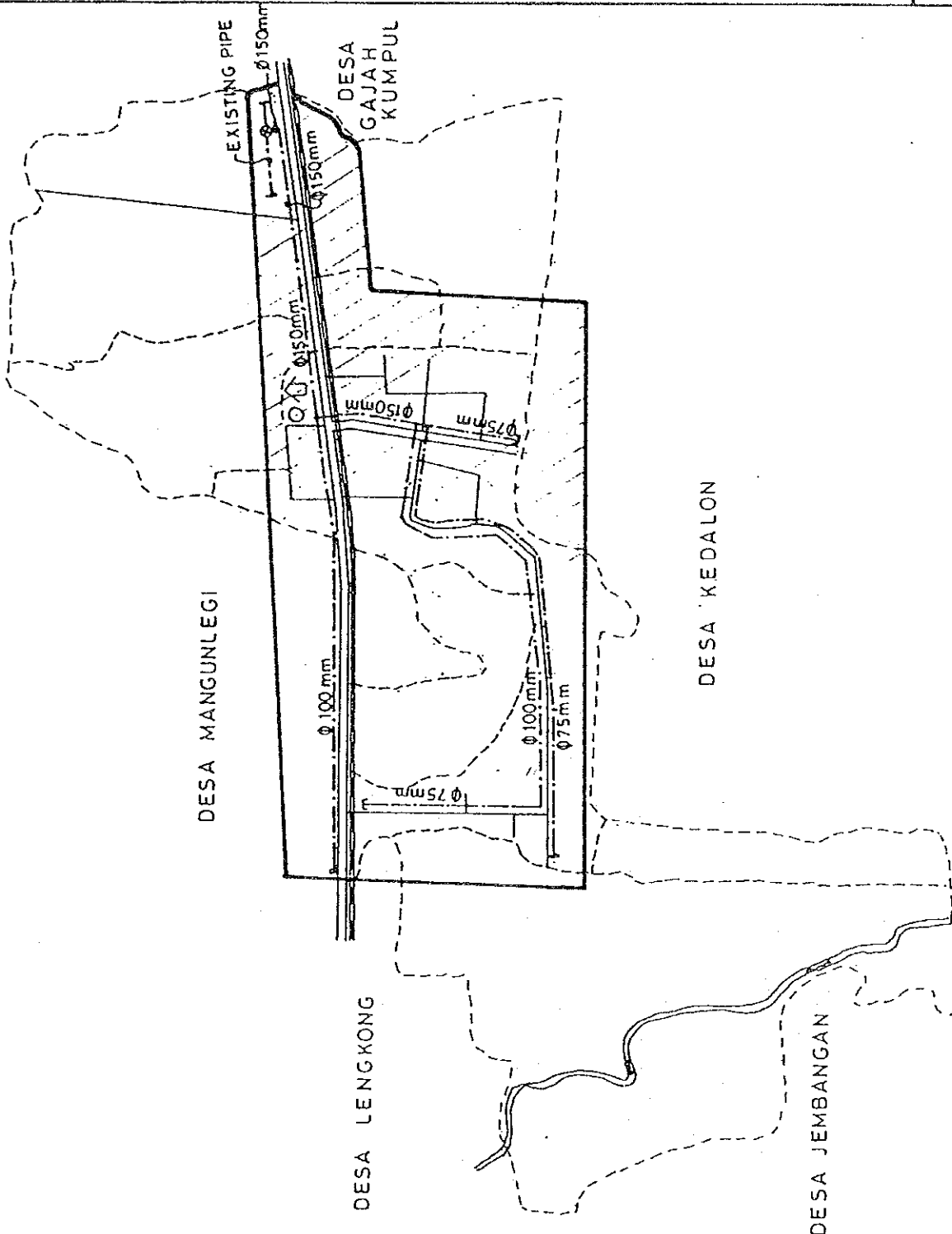
- ==== = MAIN ROAD
- = DESA ROAD
- = RAIL WAY
- = DESA BOUNDARY
- ~~~~~ = RIVER
- ⌈ = KEC OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = TAPPING POINT
- = EXISTING PIPE LINE
- = DISTRIBUTION PIPE LINE



SCALE 1 : 15,000

C-42

BATANGAN



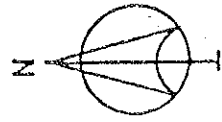
F





**LEGEND**

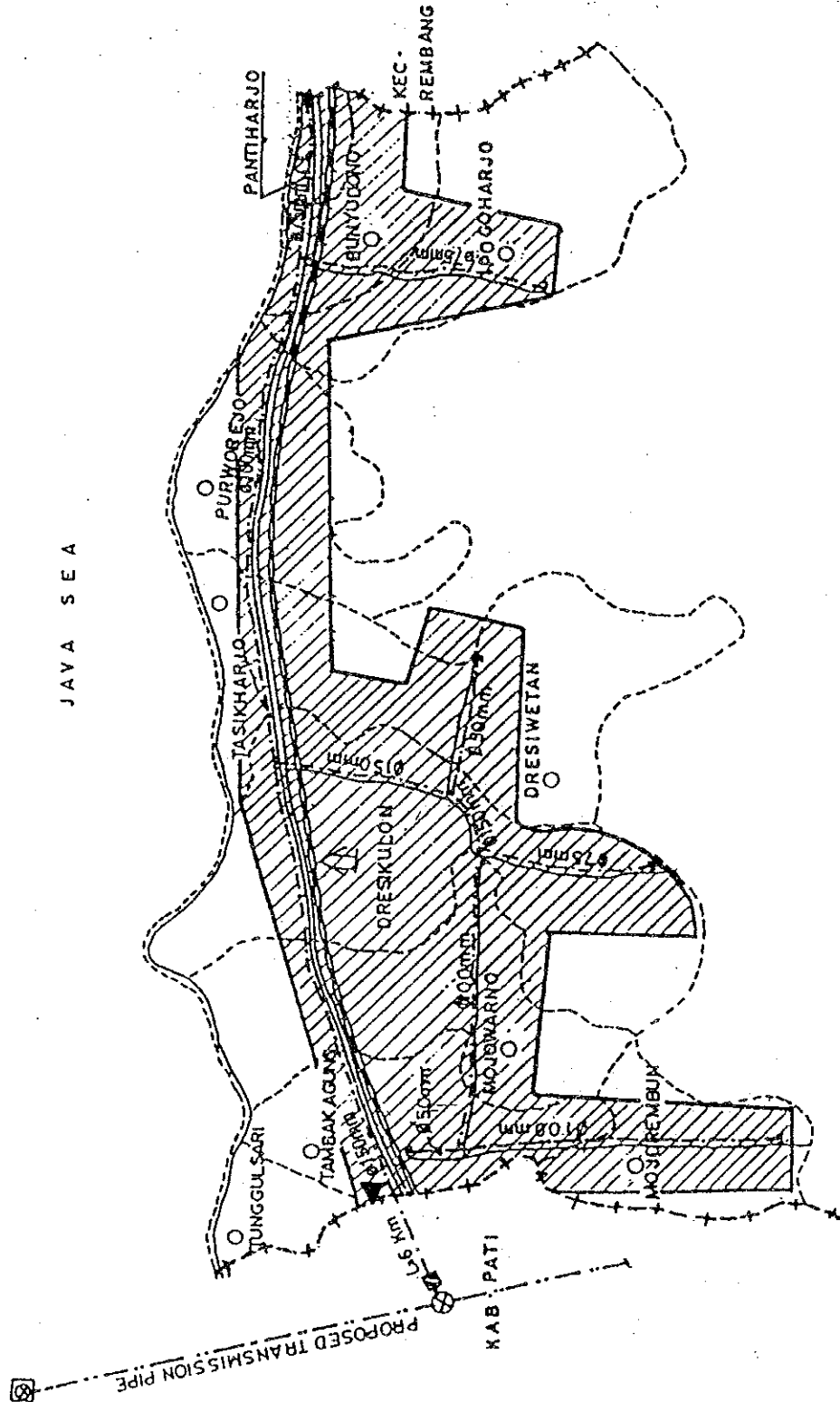
- == MAIN ROAD
- DESA ROAD
- RAILWAY
- + - + - + KAB. BOUNDARY
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ⌚ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊠ PROPOSED SPRING
- ▩ RESERVOIR
- ▽ ELEVATED TANK
- TRANSMISSION PIPE LINE
- · - · - DISTRIBUTION PIPE LINE



SCALE 1 : 50-000

C-44

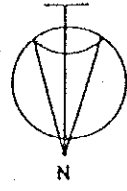
**KALIORI**



B-b

**LEGEND**

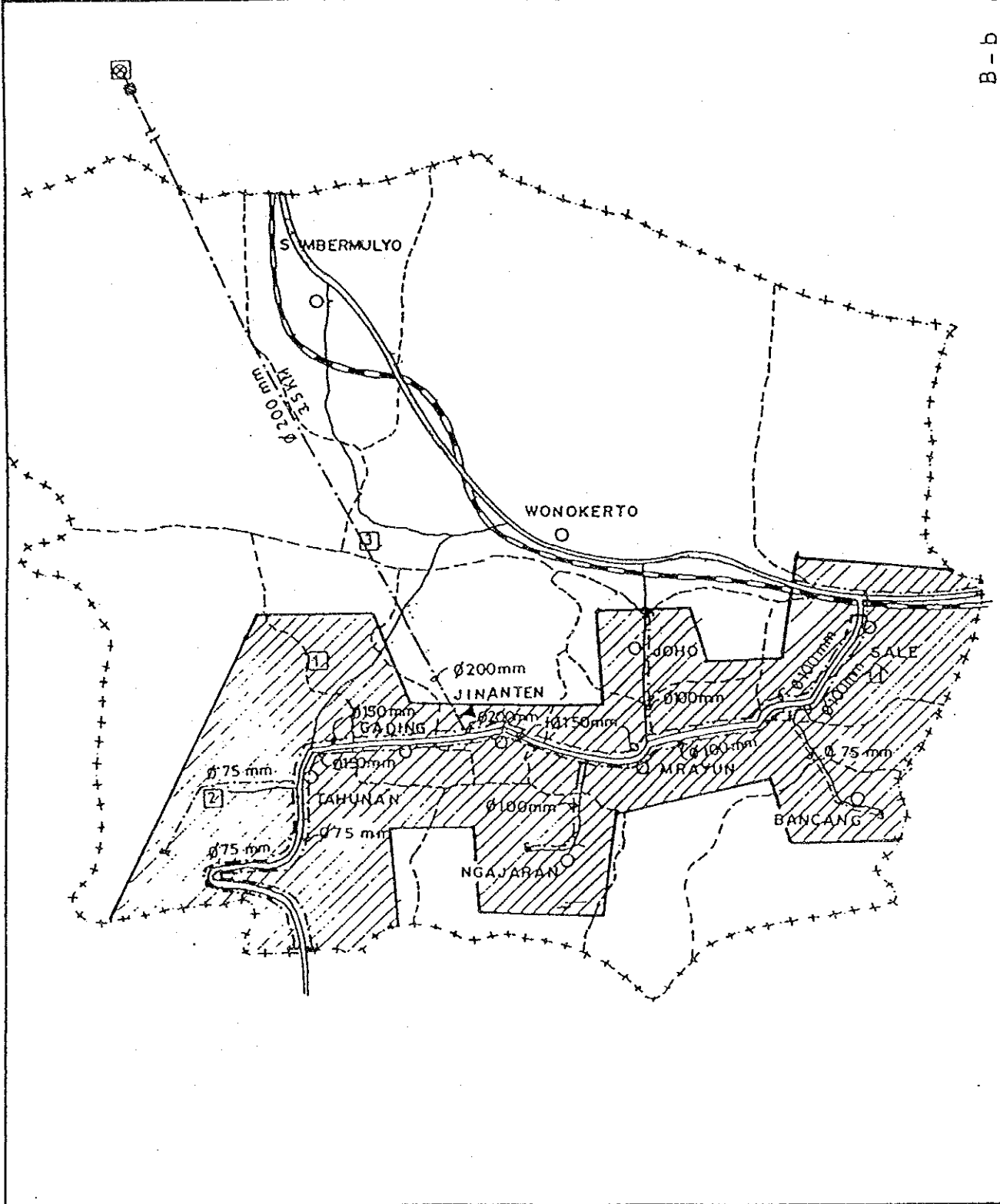
- == MAIN ROAD
- DESA ROAD
- RAILWAY
- + + + + =KEC. BOUNDARY
- - - - = DESA BOUNDARY
- ↑ = KEC. OFFICE
- = DESA OFFICE
- ▨ = I.K.K. AREA
- ⊗ = PROPOSED SPRING
- ▨ = RESERVOIR
- ▲ = ELEVATED TANK
- TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE



SCALE 1 : 20.000

C-45

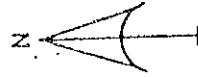
SALE



B-b

**LEGEND**

- = MAIN ROAD
- - - = DESA ROAD
- + + + + = KEC. BOUNDARY
- - - - = DESA BOUNDARY
- ~ ~ ~ ~ = RIVER
- ~ ~ ~ ~ = RIVER
- ↑ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊕ = PROPOSED WELL
- ⊞ = RESERVOIR
- ▲ = ELEVATED TANK
- · - · = TRANSMISSION PIPE LINE
- - - - = DISTRIBUTION PIPE LINE



SCALE 1 : 20.000

C-46

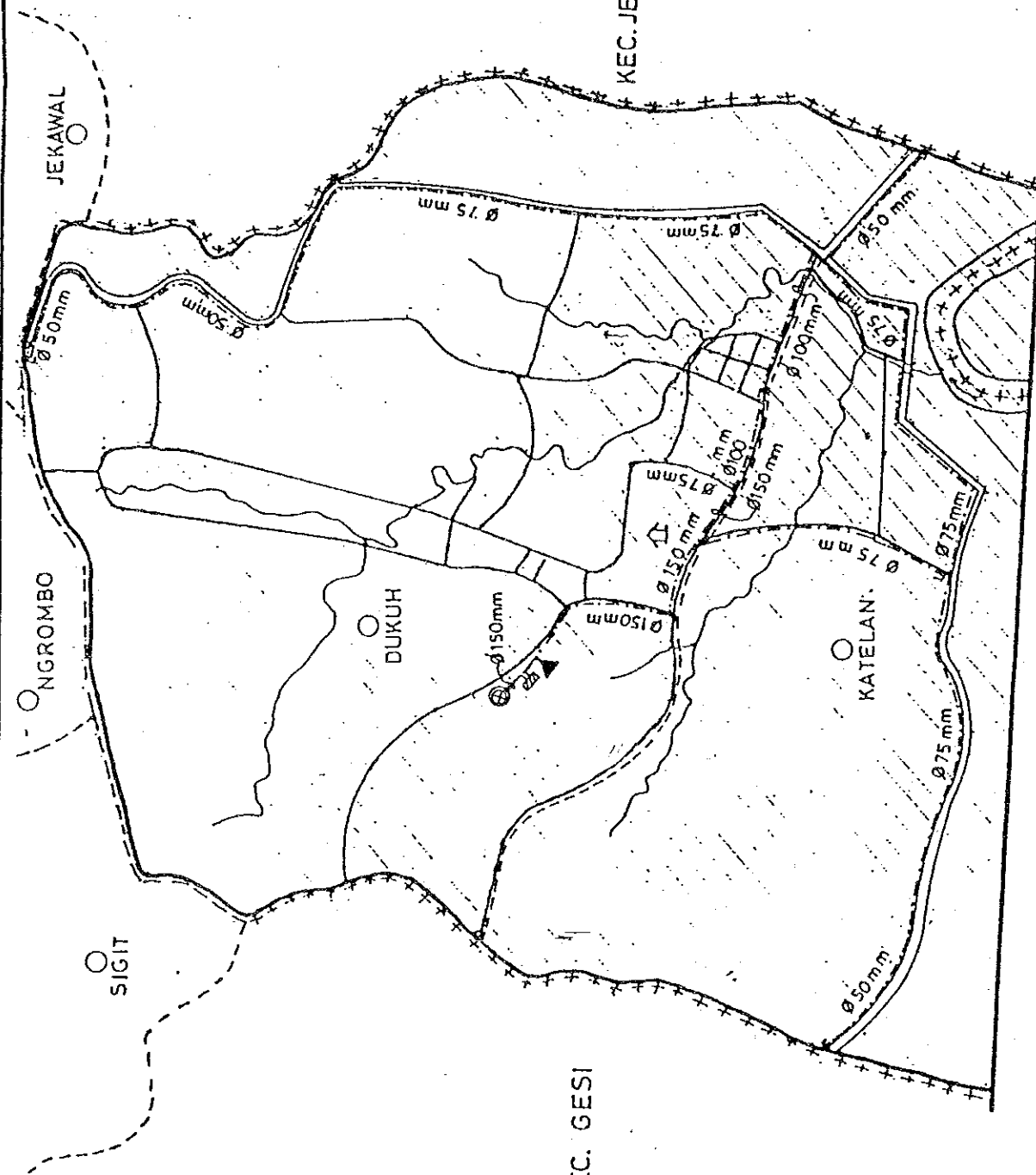
TANGEN

KEC. NGRAMPAL

KEC. JENAR

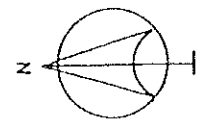
KEC. GESI

D - b



**LEGEND**

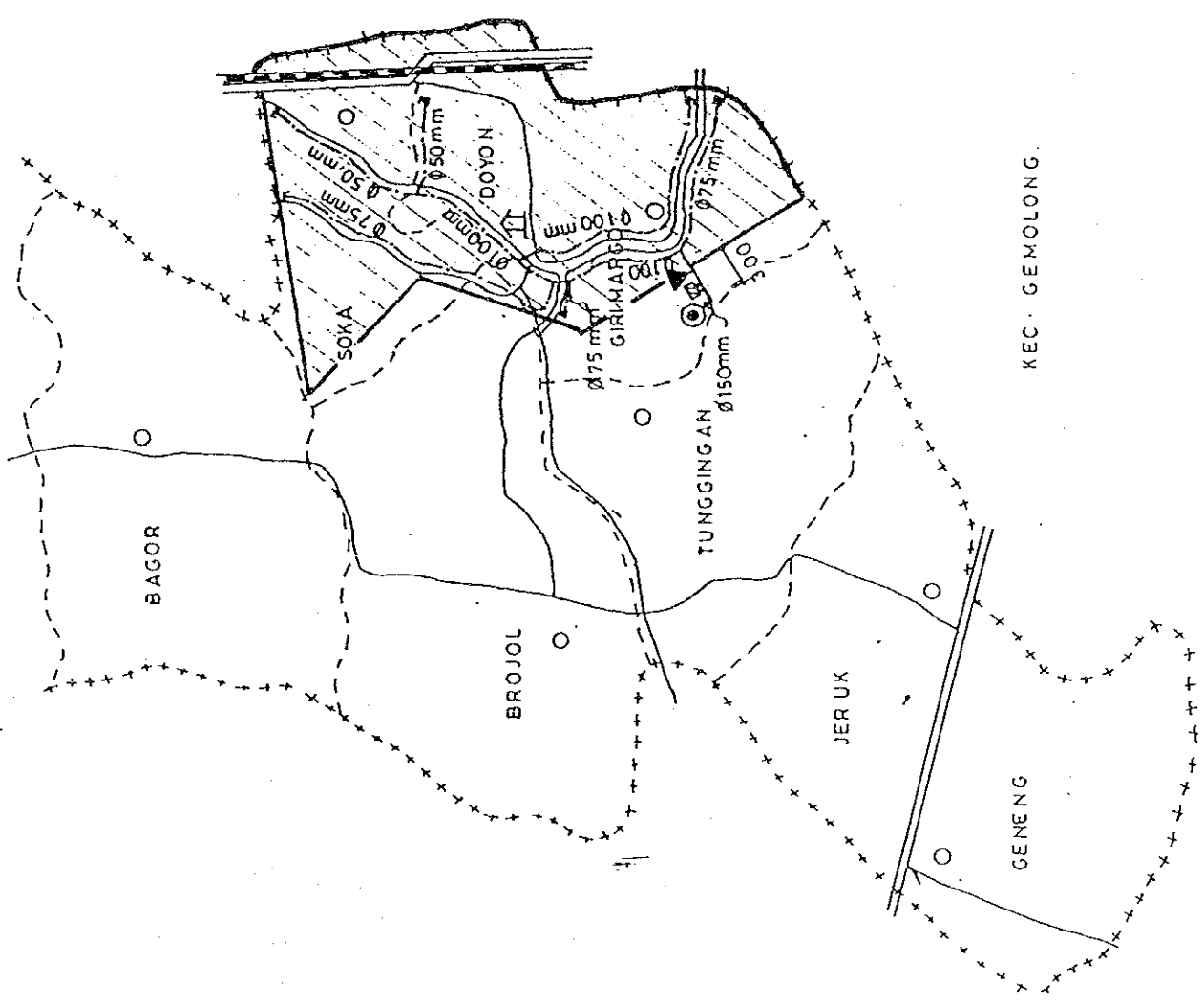
- = MAIN ROAD
- = DESA ROAD
- = RAILWAY
- = KEC BOUNDARY
- = DESA BOUNDARY
- = DESA OFFICE
- = KEC OFFICE
- = IKK AREA
- = PROPOSED WELL
- = RESERVOIR
- = ELEVATED TANK
- = TRANSMISSION PIPE LINE
- = DISTRIBUTION PIPE LINE



SCALE 1 : 22.500

C-47

MIRI

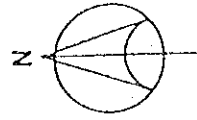


KEC. GEMOLONG

D-a

**LEGEND**

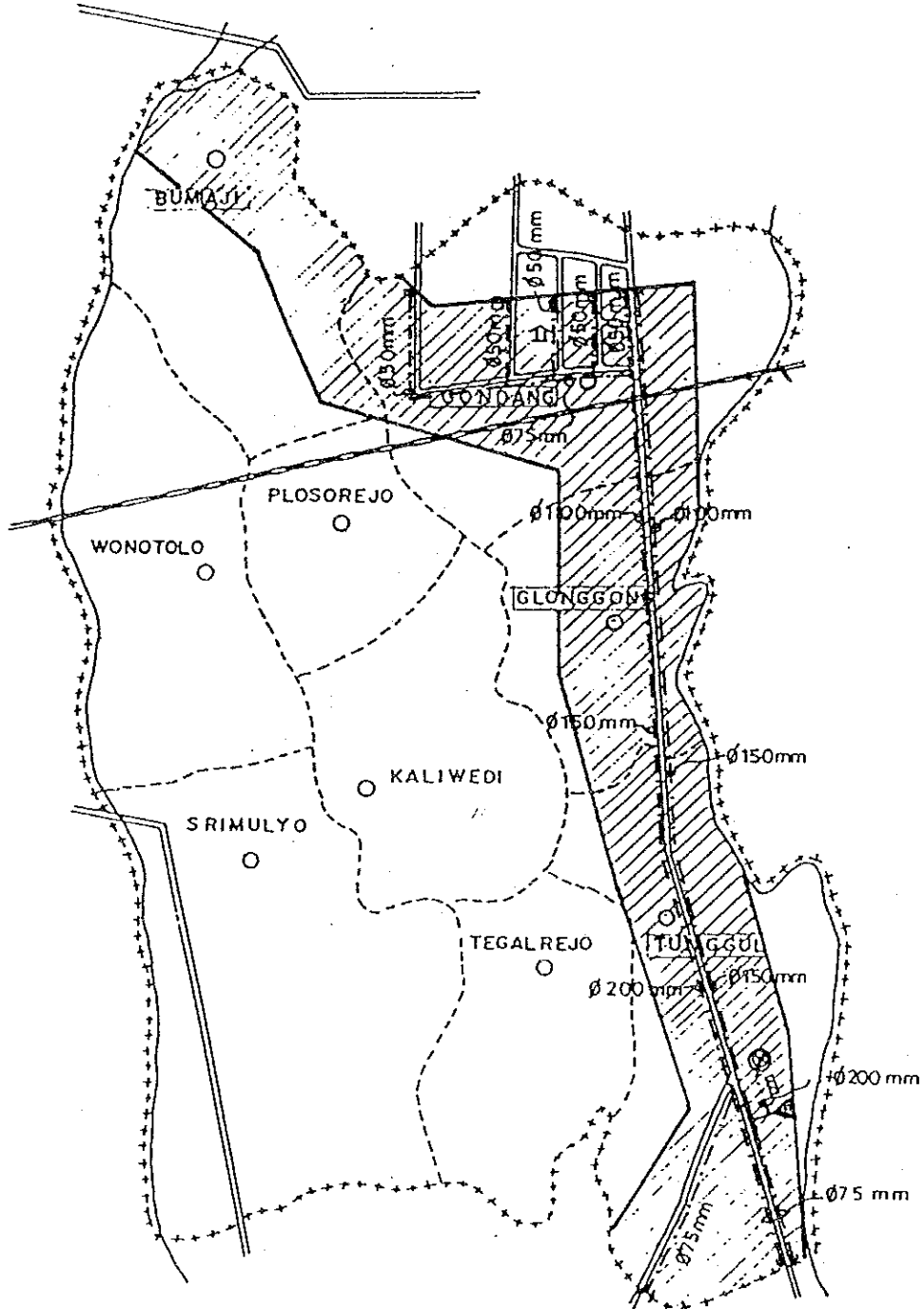
- == MAIN ROAD
- == RAIL WAY
- +++++ KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- ☐ KECAMATAN OFFICE
- DESA OFFICE
- ▨ IKK. AREA
- ⊙ PROPOSED WELL
- ⊞ RESERVOIR
- ▲ ELEVATED TANK
- · - · - · TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 30-000

C-48

GONDANG



D - b

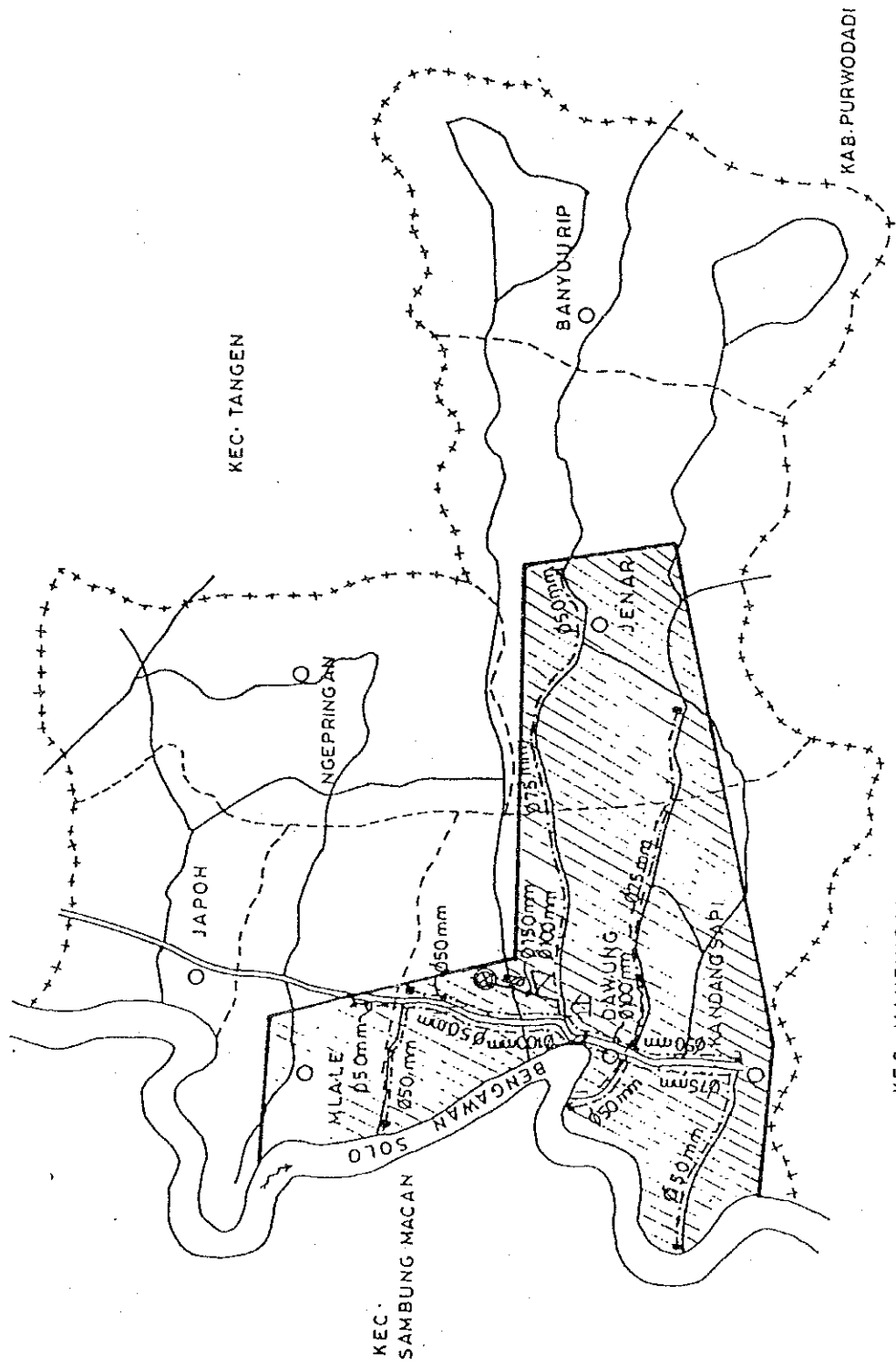
**LEGEND**

- ▬ MAIN ROAD
- ▬ DESA ROAD
- - - - - KAB. BOUNDARY
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- ⊕ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED WELL
- ▩ RESERVOIR
- ▲ ELEVATED TANK
- · - · - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 15.000  
C-49

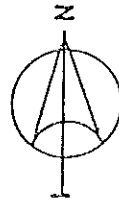
JENAR



D-b

**LEGEND**

- == MAIN ROAD
- - - DESA ROAD
- + - + - KAB. BOUNDARY
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ ~ ~ RIVER
- ⌈ KEC. OFFICE
- DESA OFFICE
- ▨ IIRK AREA
- ⊗ PROPOSED WELL
- ▩ RESERVOIR
- ▲ ELEVATED TANK
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE

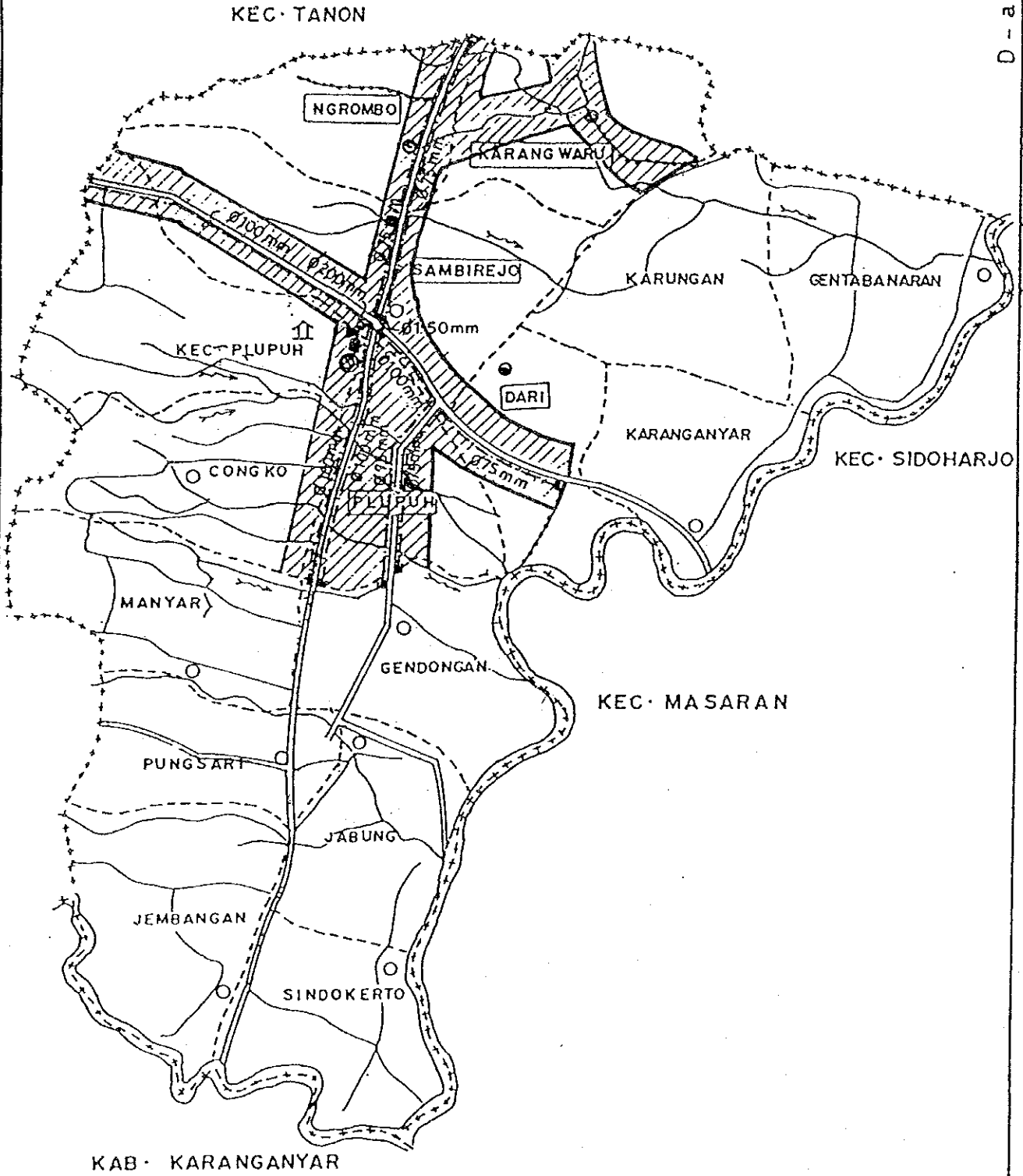


SCALE : 1 : 50.000

C-50

**PLUPUH**

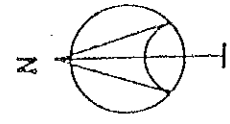
D - a





**LEGEND**

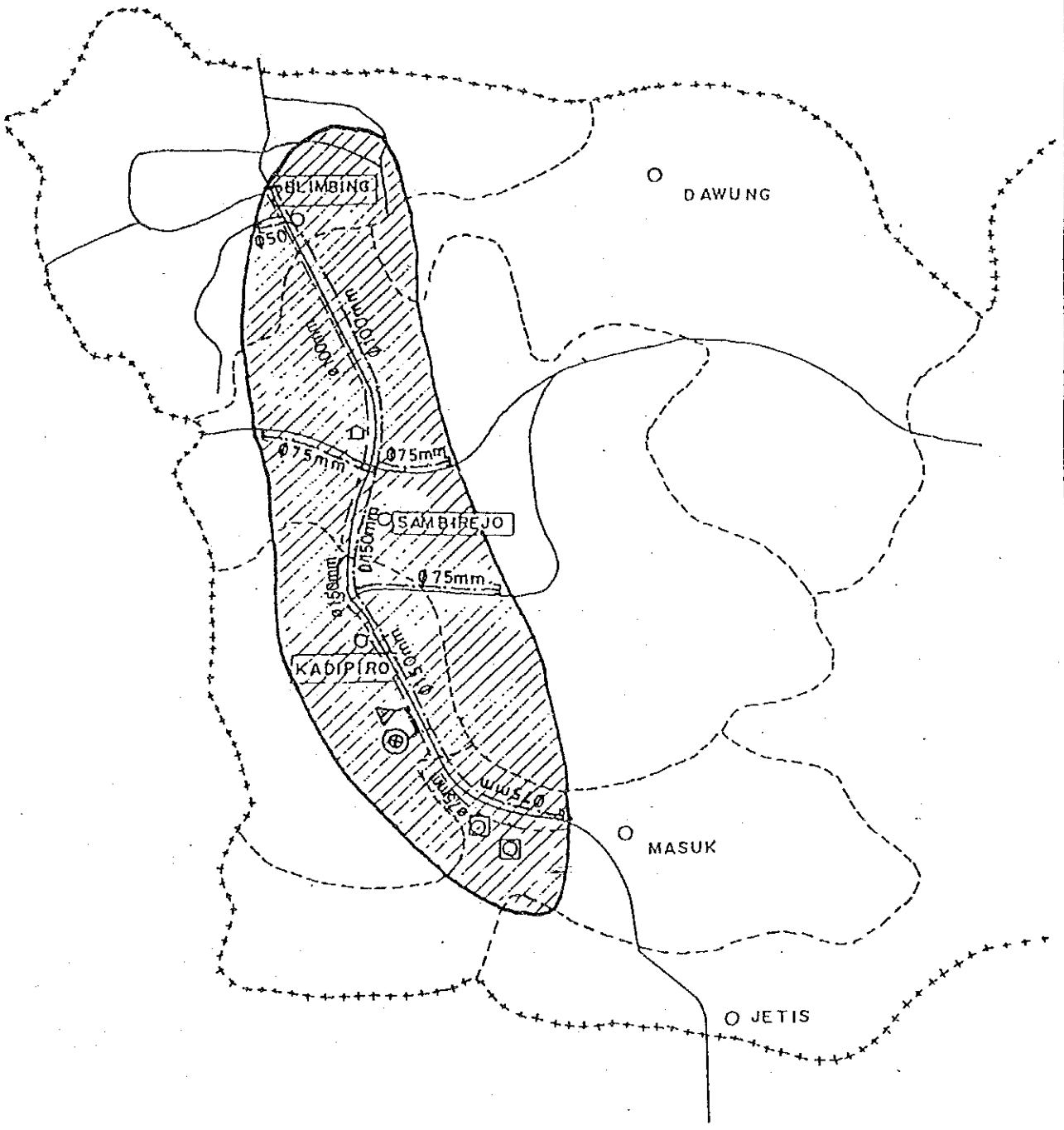
- = DESA ROAD
- +++++ = KEC. BOUNDARY
- - - - = DESA BOUNDARY
- = DESA OFFICE
- = KECAMATAN OFFICE
- ◻ = SPRING
- ▨ = IKK. AREA
- ⊗ = PROPOSED WELL
- ▽ = ELEVATED TANK
- - - - = DISTRIBUTION PIPE LINE
- · - · - = TRANSMISSION PIPE LINE



SCALE 1 : 20.000

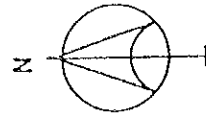
C-51

SAMBIREJO



**LEGEND**

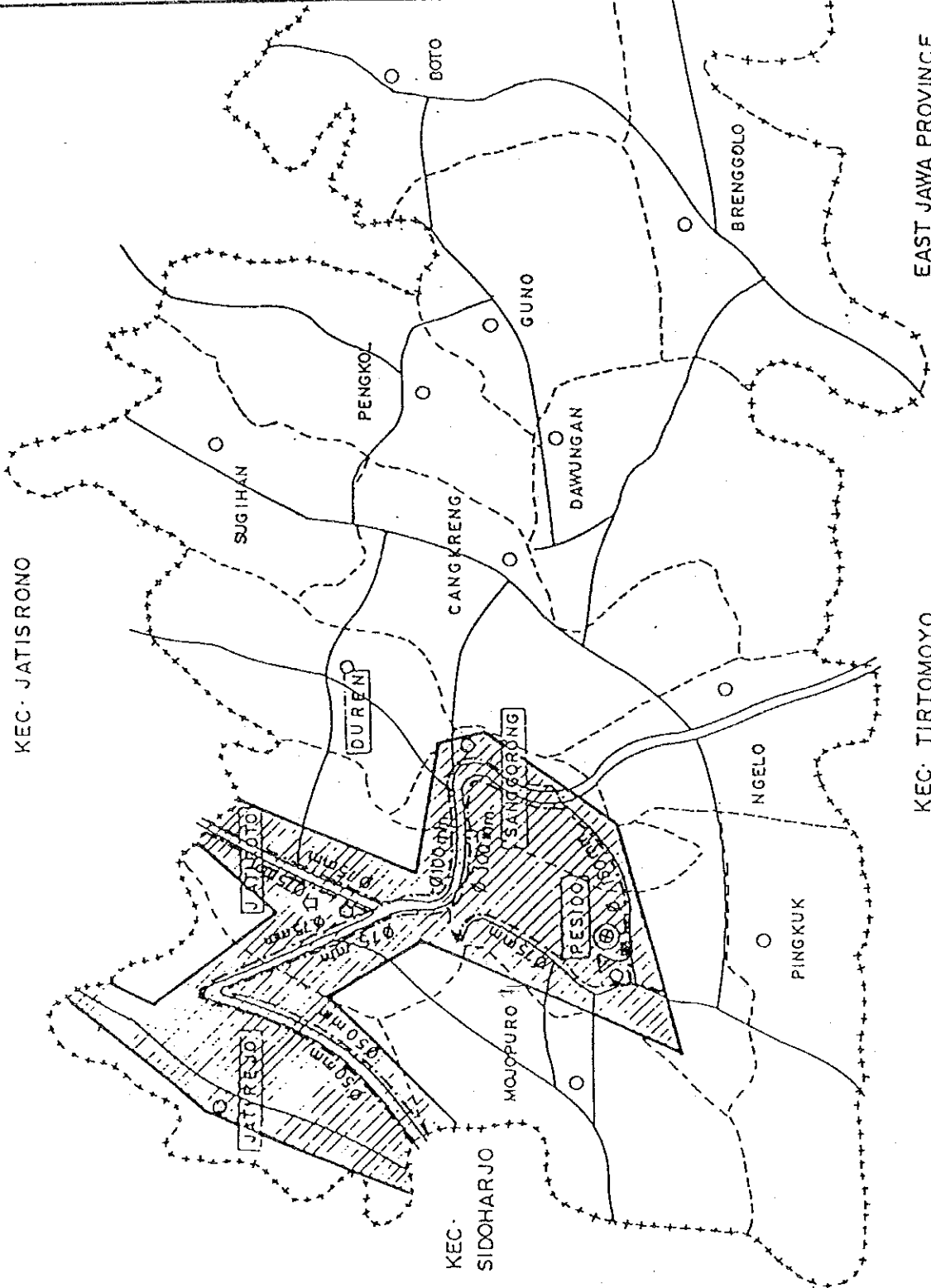
- == MAIN ROAD
- DESA ROAD
- - - - PROVINCE BOUNDARY
- + + + + KEC. BOUNDARY
- - - - DESA BOUNDARY
- ↑ = KECAMATAN OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊙ = PROPOSED WELL
- ⊞ = RESERVOIR
- ▽ = ELEVATED TANK
- - - - TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE



SCALE 1:30,000

C-52

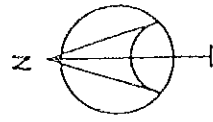
**JATIROTO**



D-b

**LEGEND**

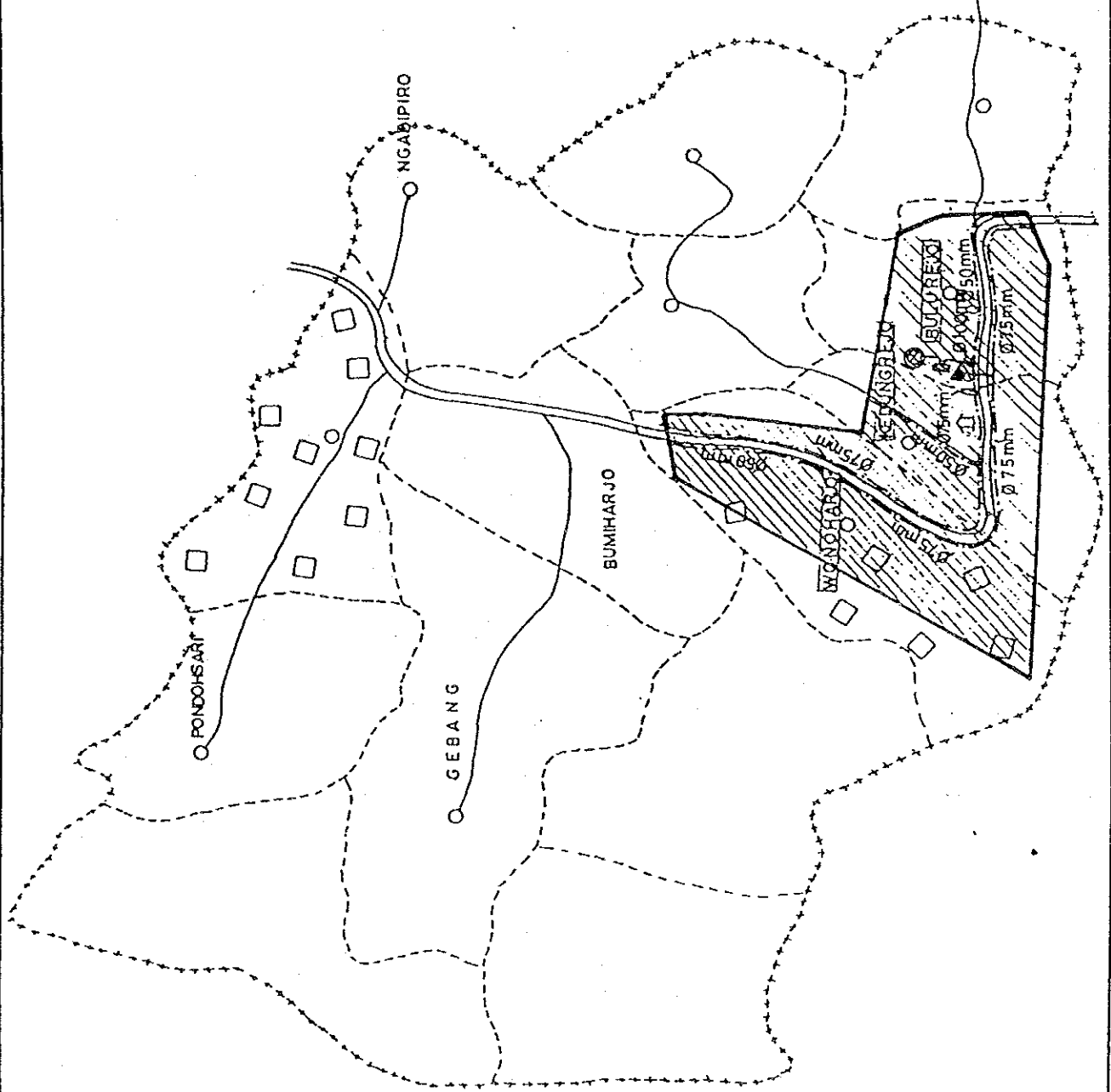
- == MAIN ROAD
- DESA ROAD
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ☐ = KECAMATAN OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊙ = DEEP WELL
- ⊞ = RESERVOIR
- - - - - DISTRIBUTION PIPE LINE
- - - - - TRANSMISSION PIPE LINE



SCALE 1 : 25.000

C - 53

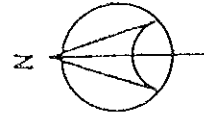
NGUNTORONADI



D - b

**LEGEND**

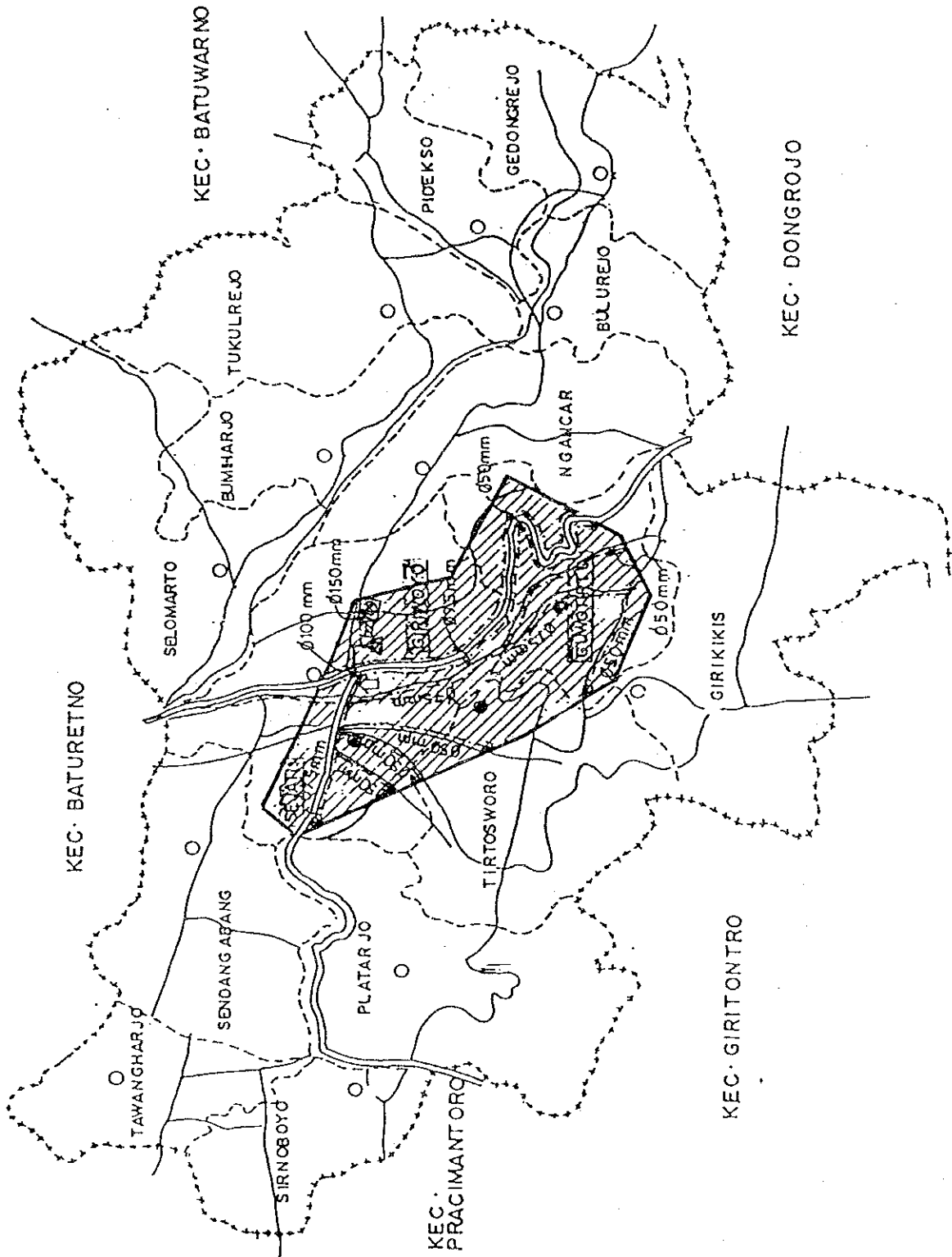
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- ~ RIVER
- DESA OFFICE
- ⊥ KEC. OFFICE
- ▨ IKK. AREA
- ⊠ PROPOSED SPRING
- ▭ RESERVOIR
- ⌋ ELEVATED TANK
- · - · - · - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 30.000

C - 54

GIRWOYO

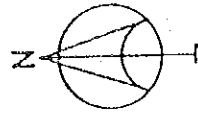


B - b



**LEGEND**

- == MAIN ROAD
- DESA ROAD
- + + + KEC. BOUNDARY
- - - DESA BOUNDARY
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊕ PROPOSED WELL
- ⊞ RESERVOIR
- - - DISTRIBUTION PIPE LINE

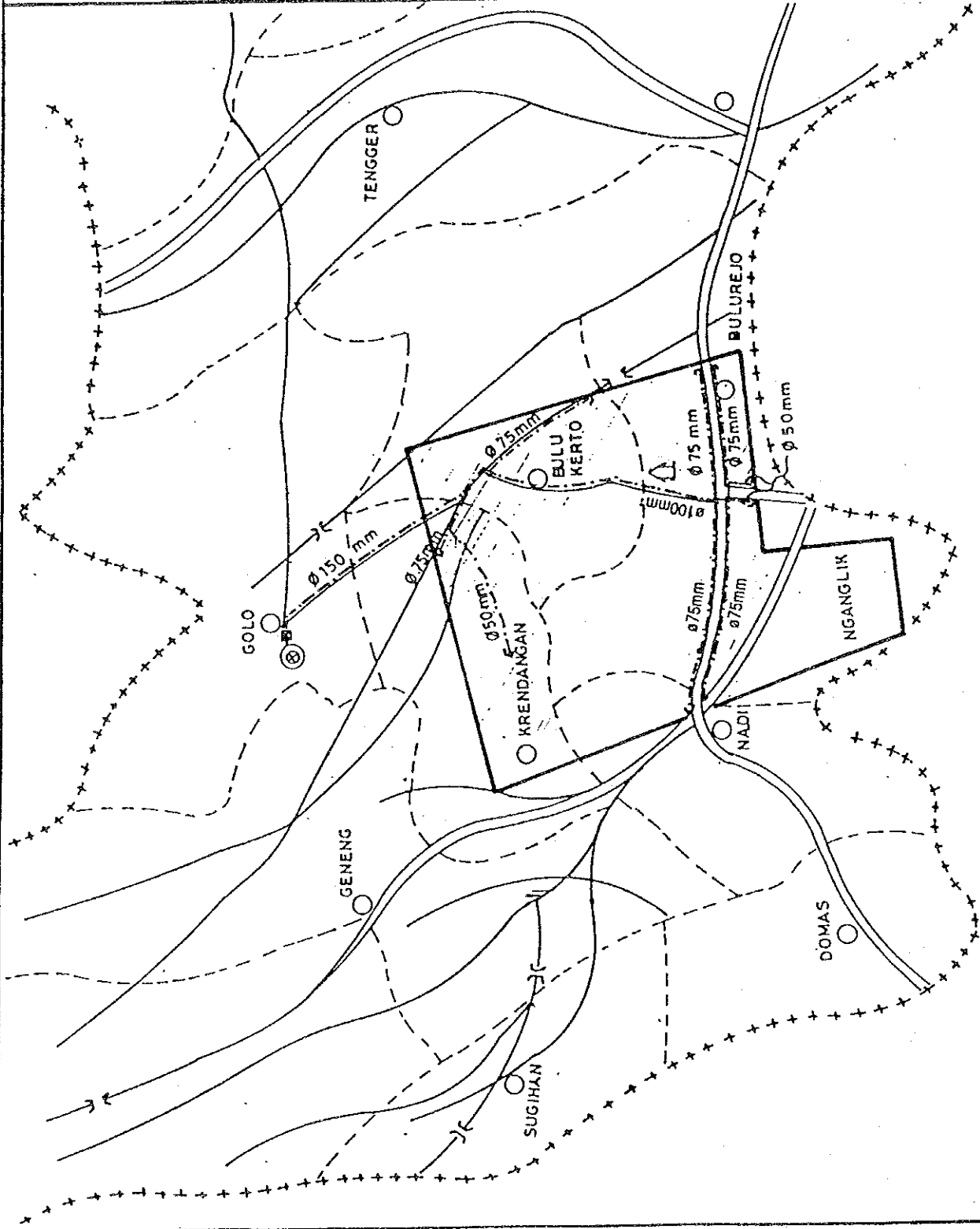


SCALE 1: 25.000

C-56

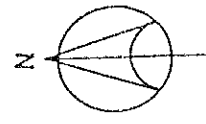
**BULUKERTO**

A-a



**LEGEND**

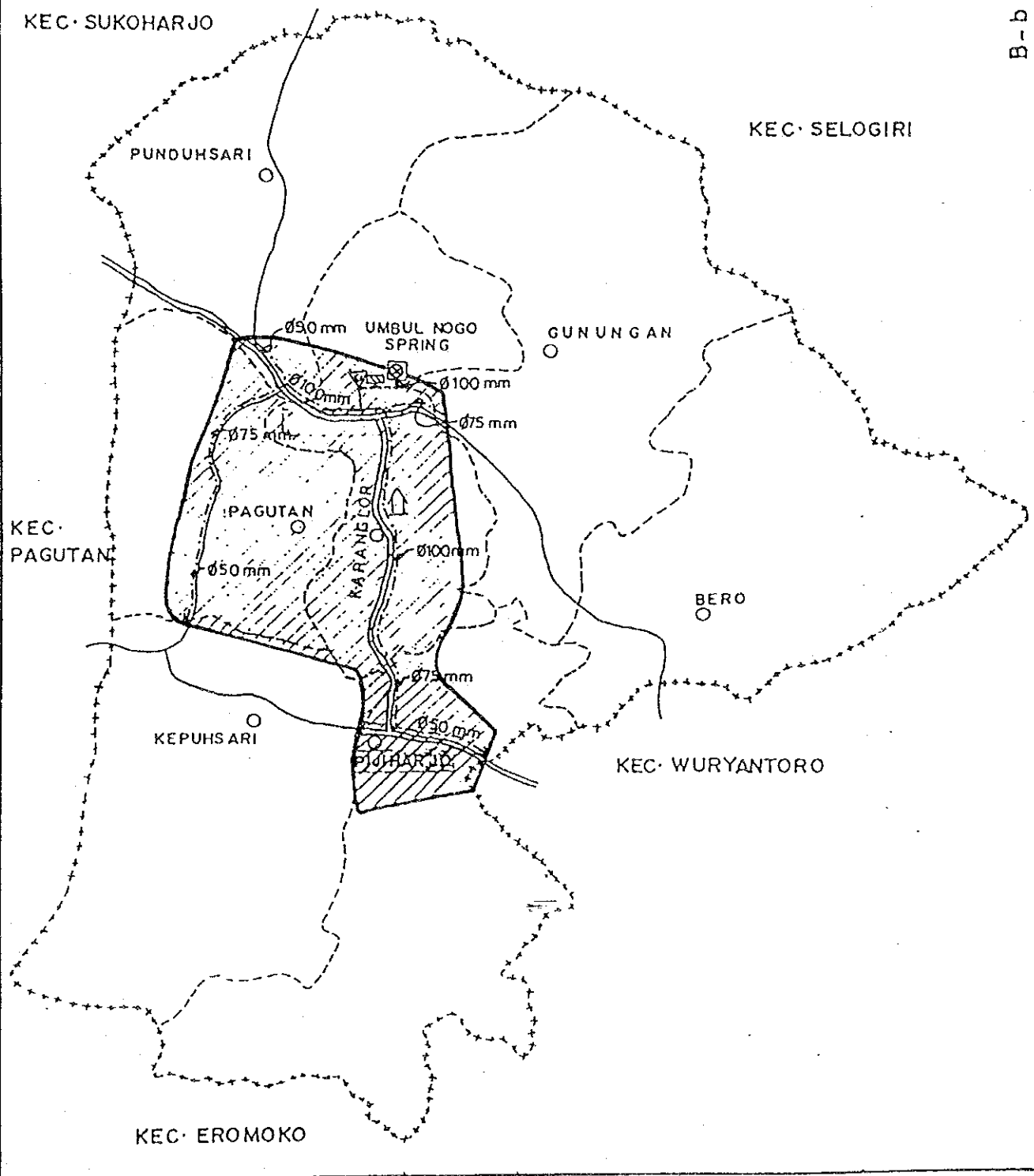
- ==== = MAIN ROAD
- = DESA ROAD
- + + + = KEC. BOUNDARY
- - - = DESA BOUNDARY
- ↑ = KEC OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ☒ = PROPOSED SPRING
- ▩ = RESERVOIR
- ▲ = ELEVATED TANK
- - - = TRANSMISSION PIPE LINE
- - - = DISTRIBUTION PIPE LINE



SCALE 1 : 15 000

C-57

MANYARAN



B-b

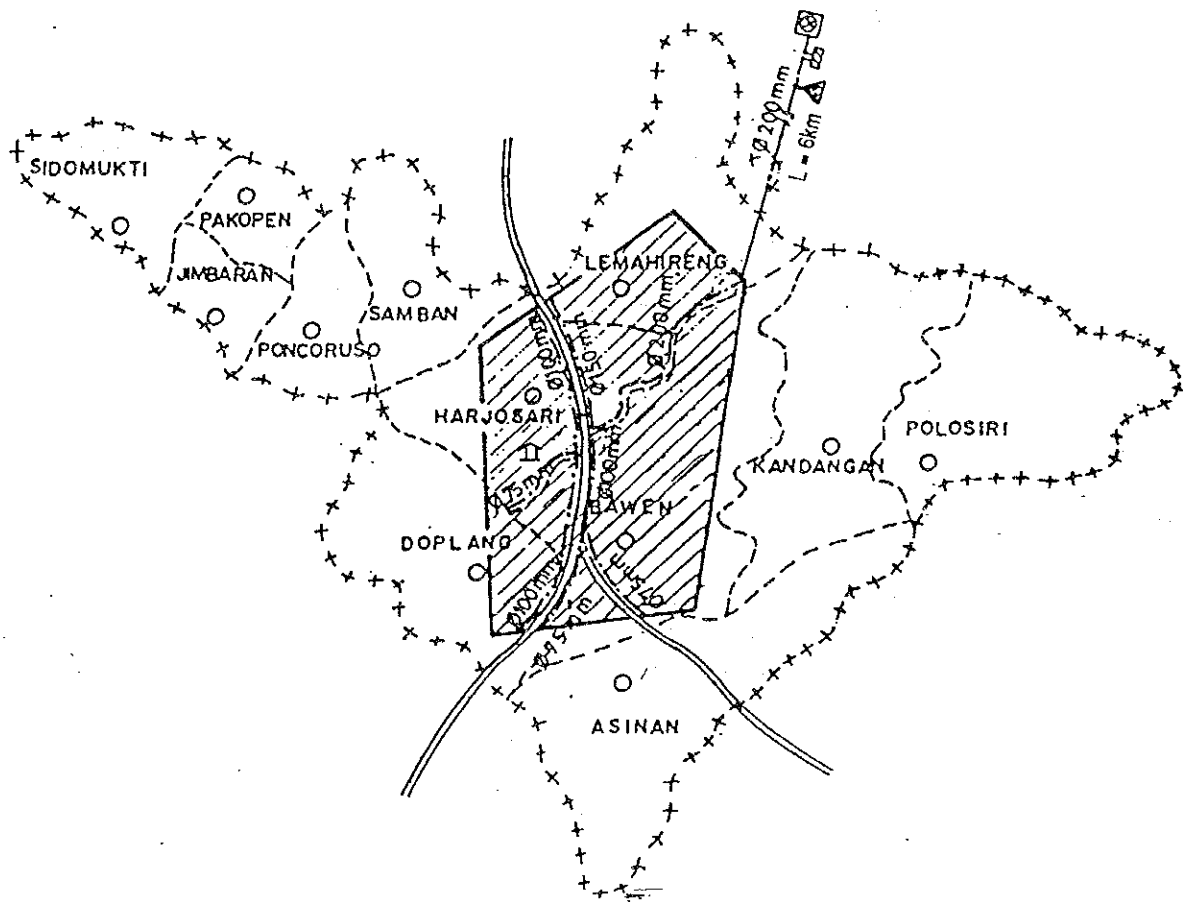
**LEGEND**

- == MAIN ROAD
- ++++ KEC. BOUNDARY
- - - - DESA BOUNDARY
- ↑ KECAMATAN OFFICE
- DESA OFFICE
- [Hatched Box] IKK AREA
- [Square with X] PROPOSED SPRING
- [Square with Z] RESERVOIR
- [Triangle] ELEVATED TANK
- - - - TRANSMISSION PIPE LINE
- · - · - · DISTRIBUTION PIPE LINE

SCALE 1 : 60.000

C-58

BAWEN



B-b



**LEGEND**

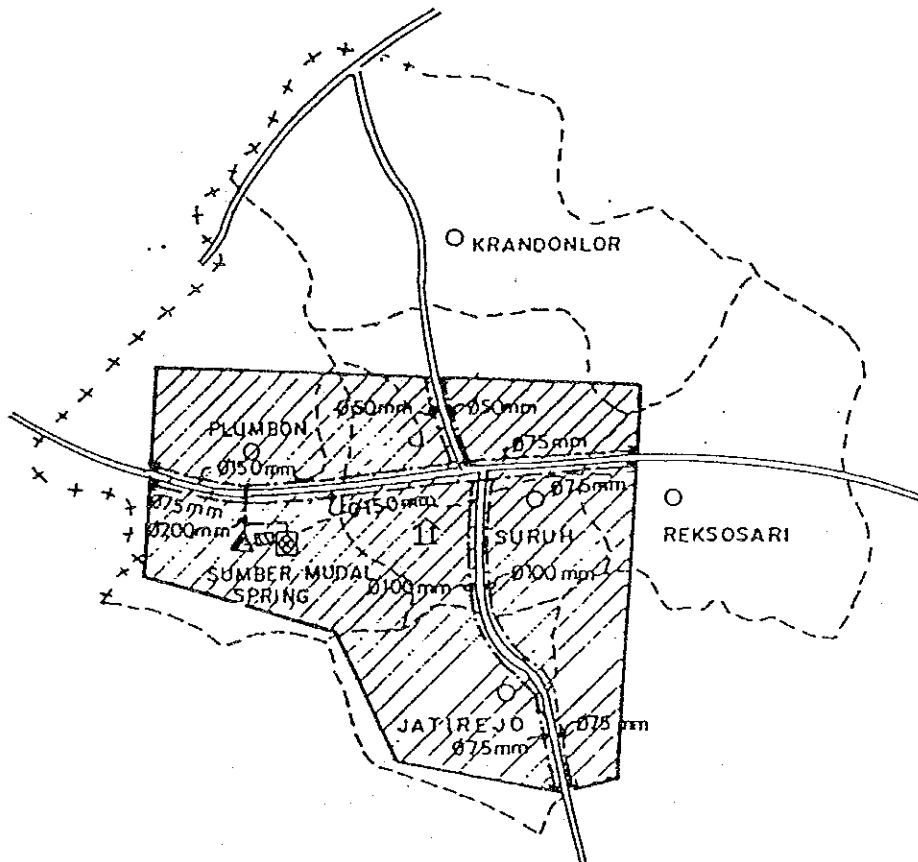
- == MAIN ROAD
- +++ KEK BOUNDARY
- - - DESA BOUNDARY
- ⇧ KEK OFFICE
- DESA OFFICE
- [Hatched Box] IKK AREA
- [Square with X] PROPOSED SPRING
- [Square with Dots] RESERVOIR
- ▽ ELEVATED TANK
- · - · - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 50.000

C-59

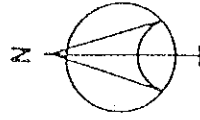
SURUH



B-b

**LEGEND**

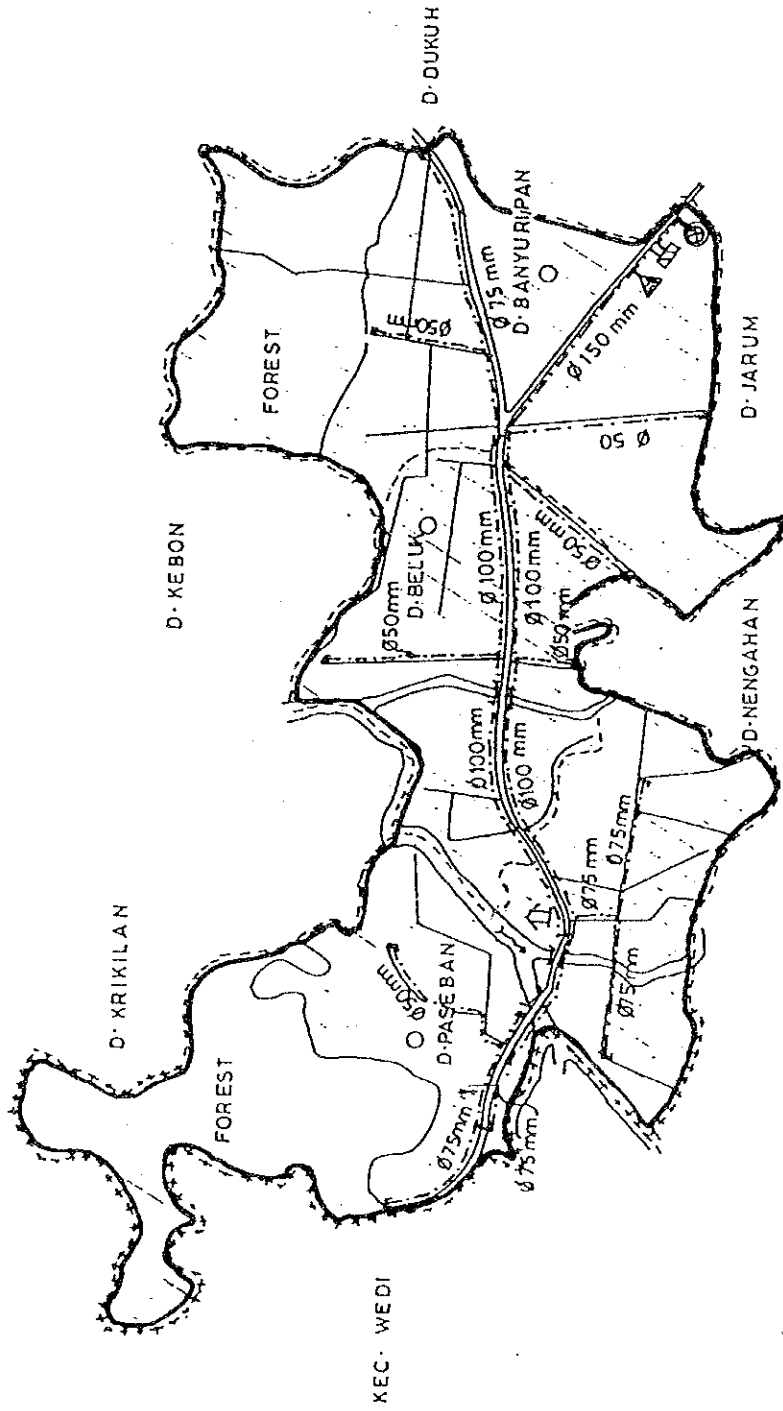
- == MAIN ROAD
- DESA ROAD
- +++++ = KEC. BOUNDARY
- - - - - = DESA BOUNDARY
- ~ ~ ~ ~ ~ = RIVER
- ⇩ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IK K. AREA
- ⊗ = PROPOSED WELL
- ⊞ = RESERVOIR
- ▽ = ELEVATED TANK
- - - - - = TRANSMISSION PIPE LINE
- - - - - = DISTRIBUTION PIPE LINE



SCALE 1 : 20-000

C-60

BAYAT



C-b

**LEGEND**

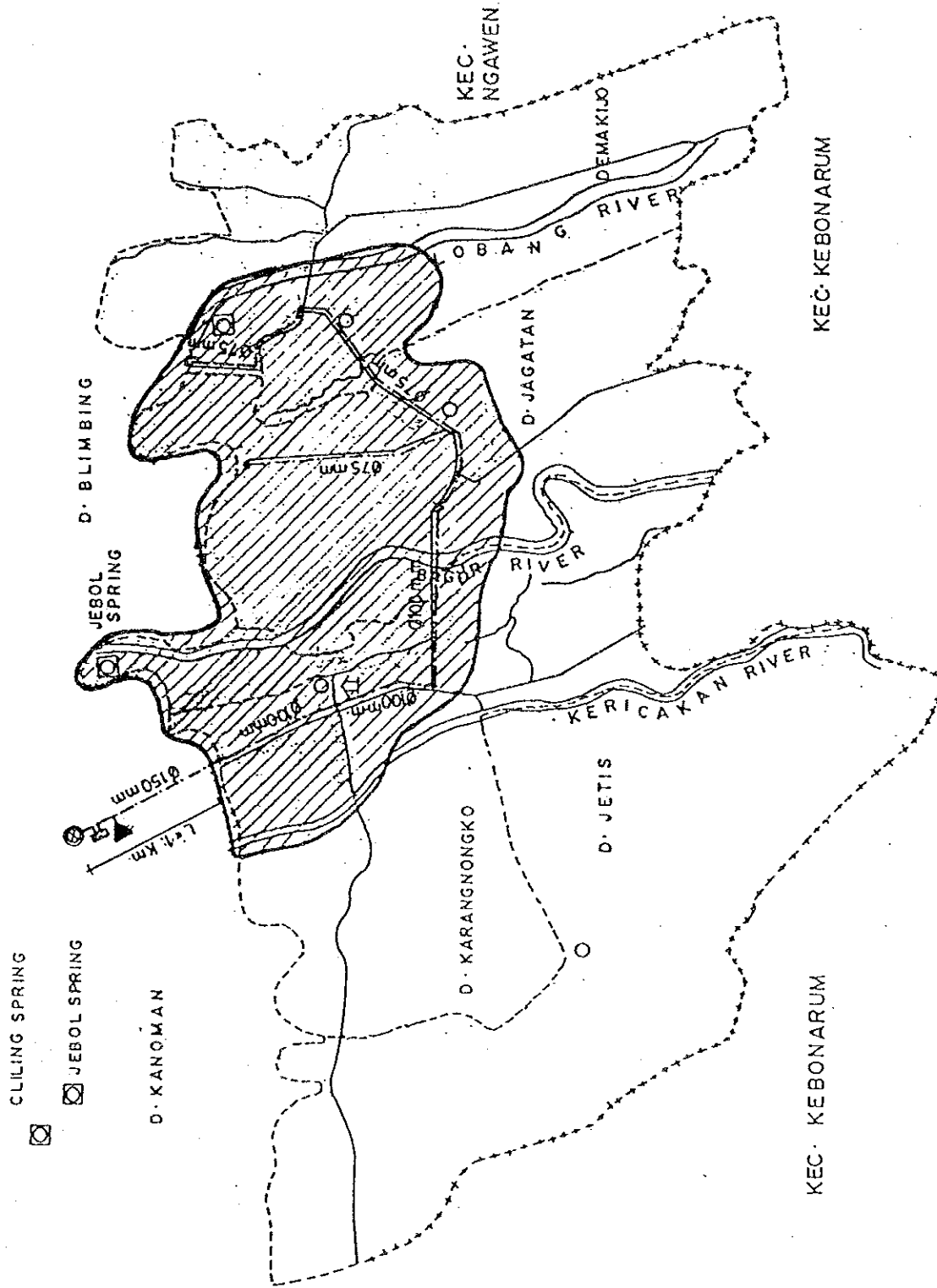
- DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC BOUNDARY
- ~ RIVER
- DESA OFFICE
- ⌄ KECAMATAN OFFICE
- ☒ SPRING
- ▨ IKK AREA
- ⊗ PROPOSED WELL
- ☐ RESERVOIR
- ▲ ELEVATED TANK
- · - · - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 40,000

C-61

**KARANGNONGKO**



C-b



**Fig. C.2 System Plans for IKKs in East Java**



**LEGEND**

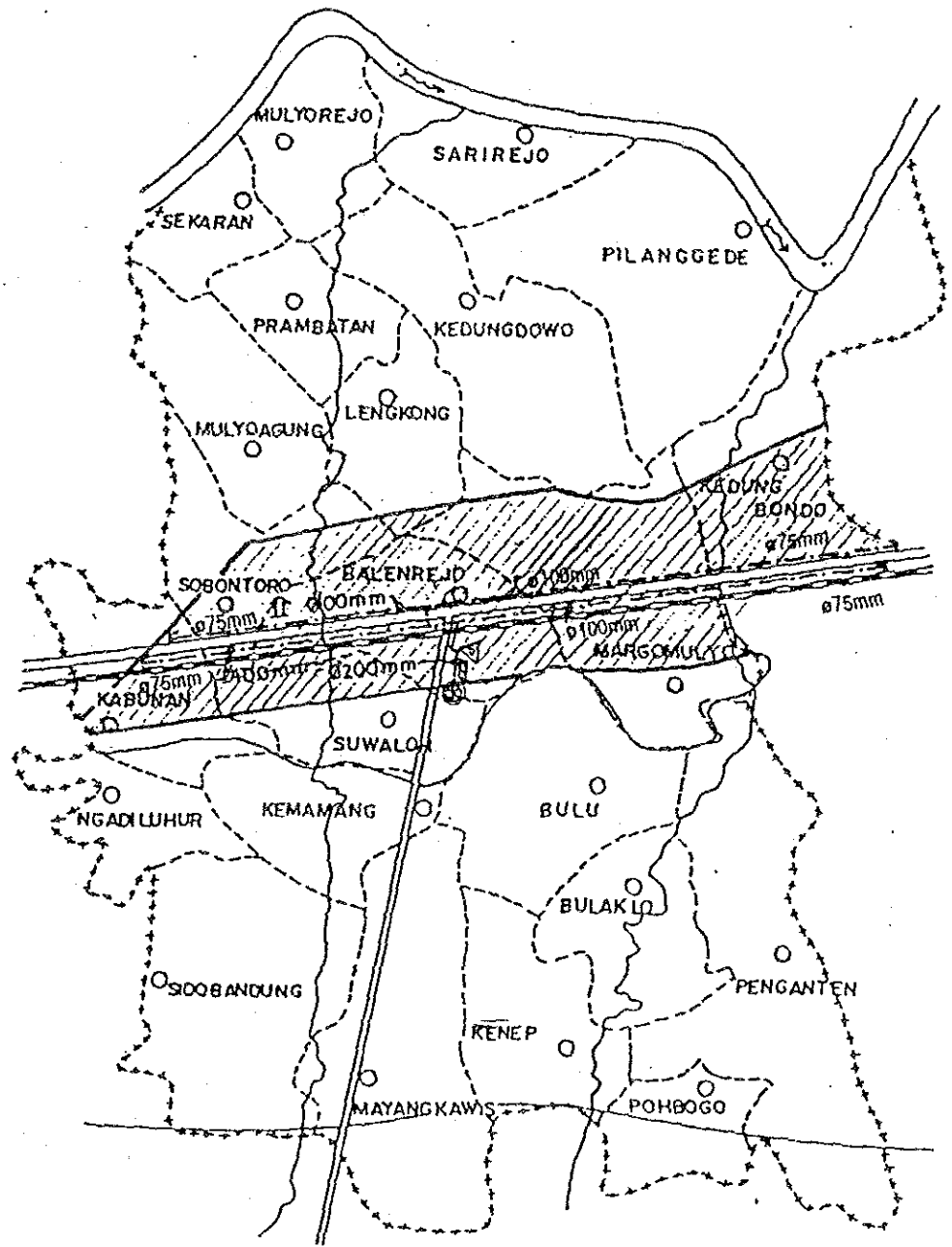
- == MAIN ROAD
- DESA ROAD
- RAILWAY
- + + + + + MEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- DESA OFFICE
- ↑ KECAMATAN OFFICE
- ▨ IKK. AREA
- ⊗ PROPOSED WELL
- ⊞ RESERVOIR
- ▽ ELEVATED TANK
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE : 1 : 45,000

E-1

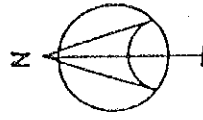
BALEN



D-b

**LEGEND**

- == MAIN ROAD
- == DESA ROAD
- == RAILWAY
- +++++ = KEC. BOUNDARY
- - - - - = DESA BOUNDARY
- ⬆ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK. AREA
- ⊗ = PROPOSED WELL
- ⊞ = RESERVOIR
- ▽ = ELEVATED TANK
- - - - - = TRANSMISSION PIPE LINE
- - - - - = DISTRIBUTION PIPE LINE

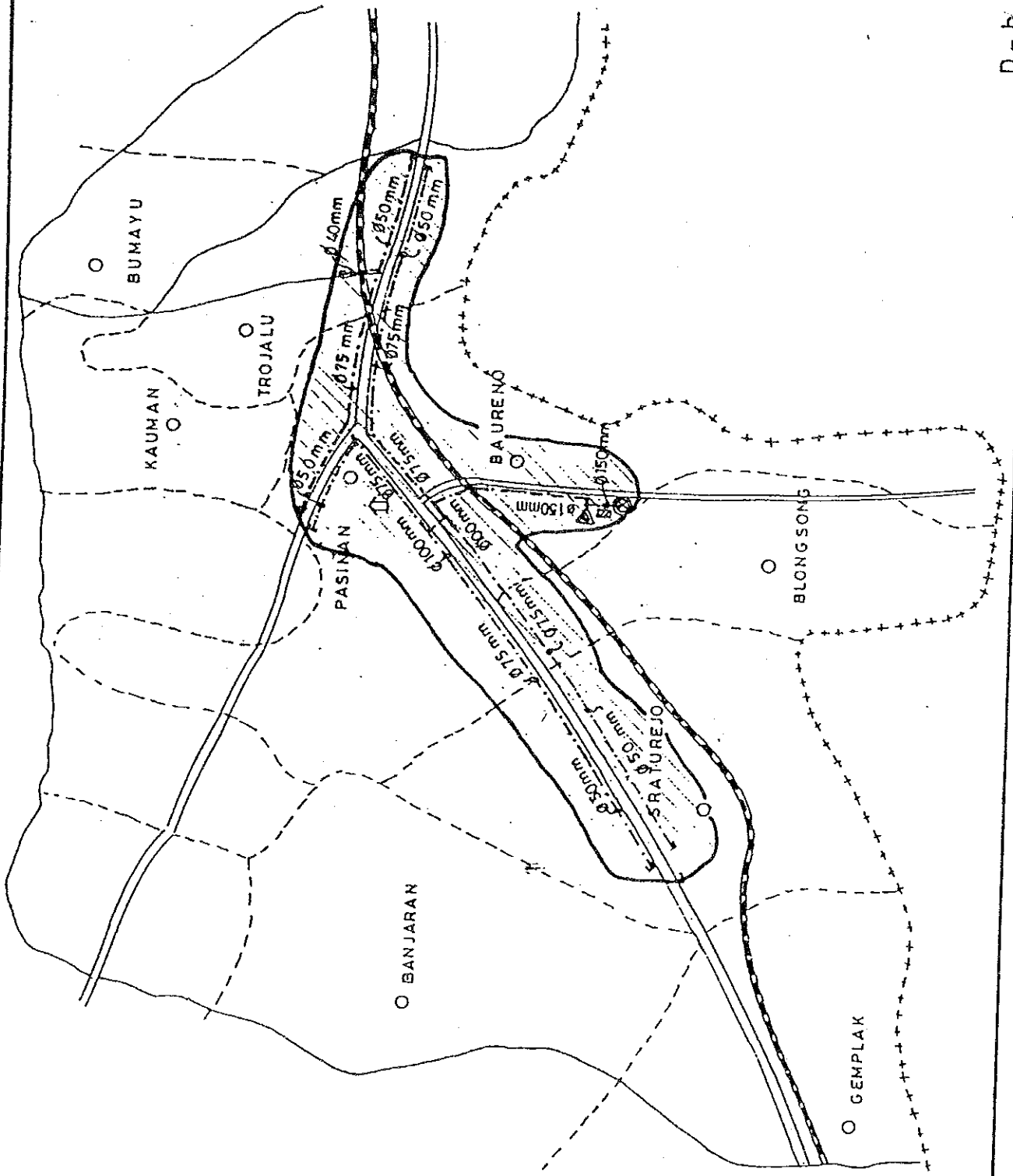


SCALE : 1 : 25.000

E-2

BAURENO

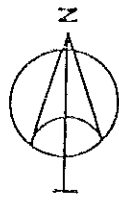
D-b





**LEGEND**

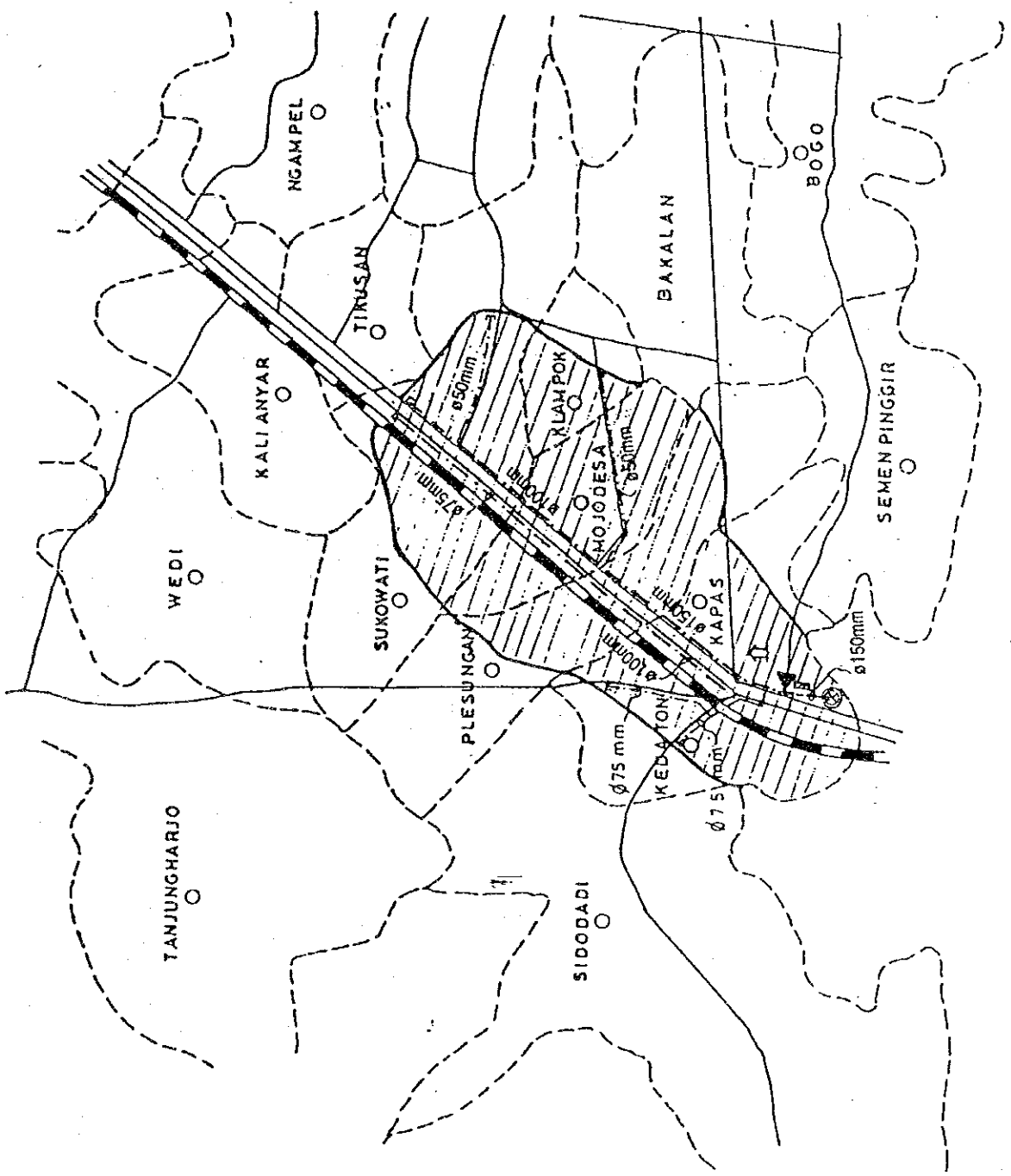
- ▬▬▬ MAIN ROAD
- ▬▬▬ DESA ROAD
- ▬ RAILWAY
- - - DESA BOUNDARY
- ⚡ KEC. OFFICE
- DESA OFFICE
- ▭ IKK AREA
- ⊕ PROPOSED WELL
- ▽ ELEVATED TANK
- ⊞ RESERVOIR
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 25.000

E-3

KAPAS



D-b

**LEGEND**

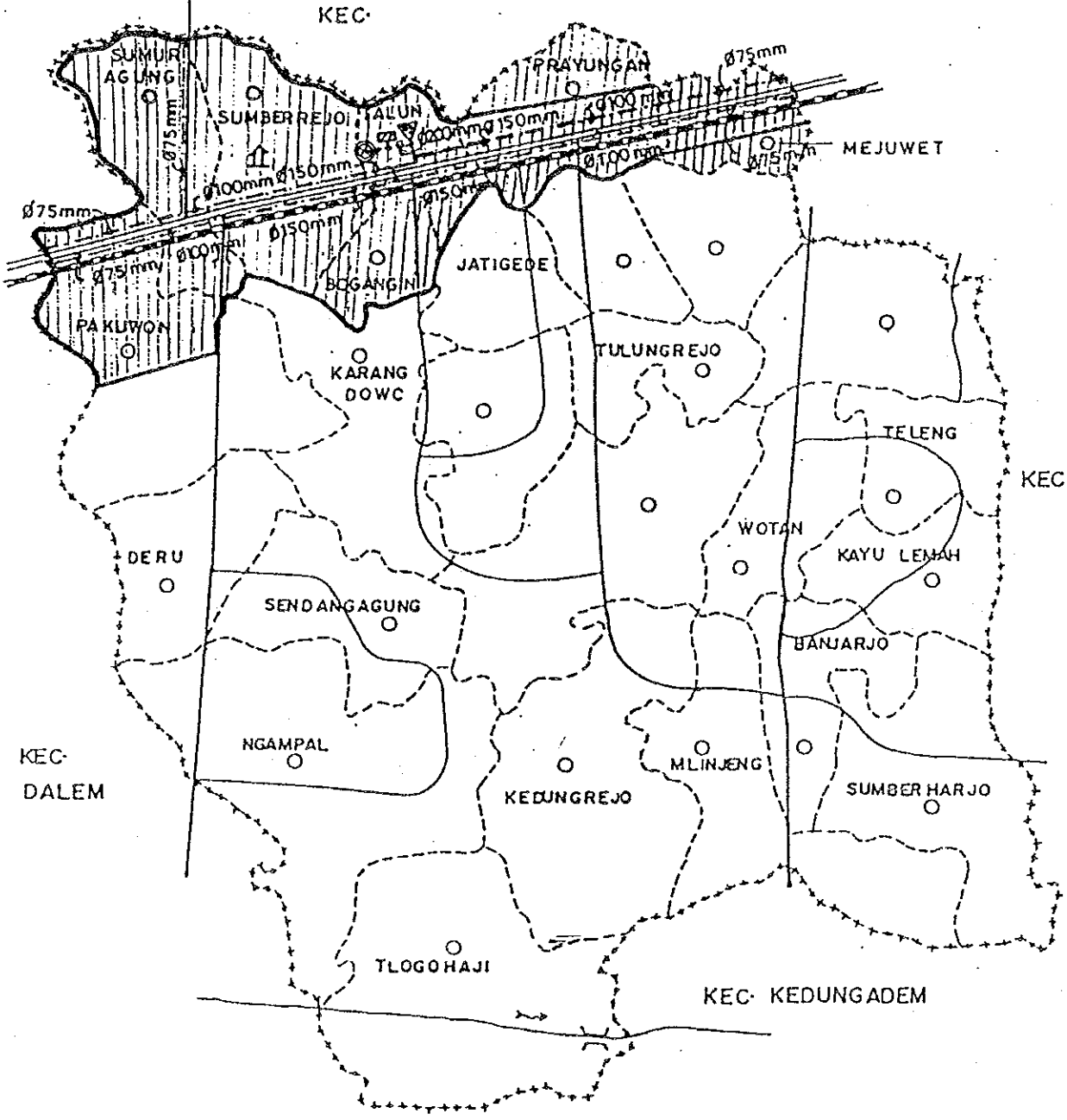
- MAIN ROAD
- DESA ROAD
- + + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- RAIL WAY
- ~ RIVER
- DESA OFFICE
- ↑ KECAMATAN OFFICE
- || BRIDGE
- ▨ IKK. AREA
- ▽ ELEVATED TANK
- ⊙ PROPOSED WELL
- ⊞ RESERVOIR
- - - - - TRANSMISSION PIPE LINE
- · - · - · - DISTRIBUTION PIPE LINE



SCALE 1 : 60.000

E-4

**SUMBERREJO**

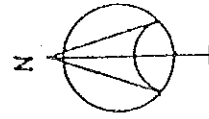


D-b



**LEGEND**

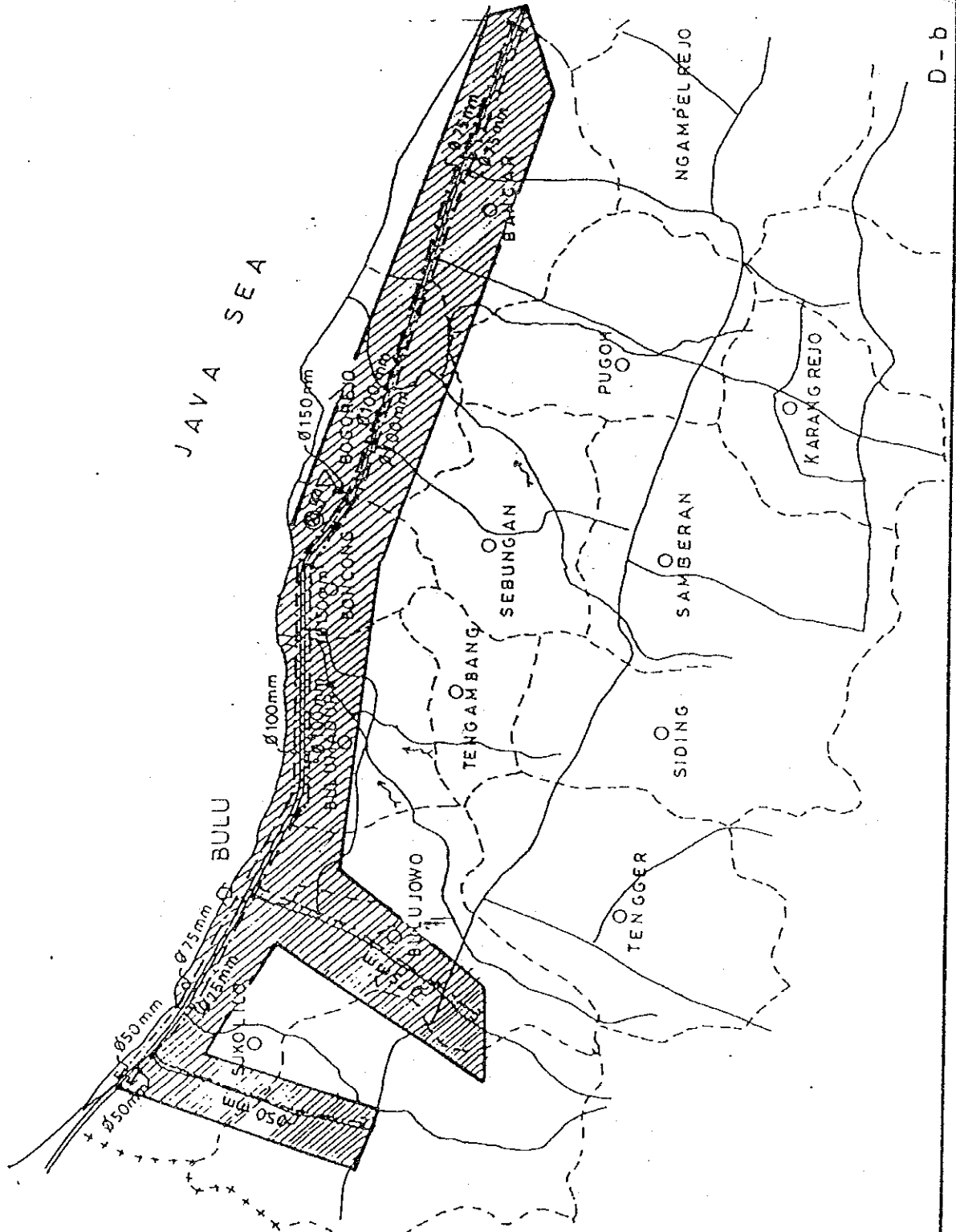
- == MAIN ROAD
- DESA ROAD
- ++++ KEC. BOUNDARY
- - - - DESA BOUNDARY
- ~ RIVER
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊙ PROPOSED WELL
- ▤ RESERVOIR
- ▲ ELEVATED TANK
- · - · - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 30.000

E-6

BULU



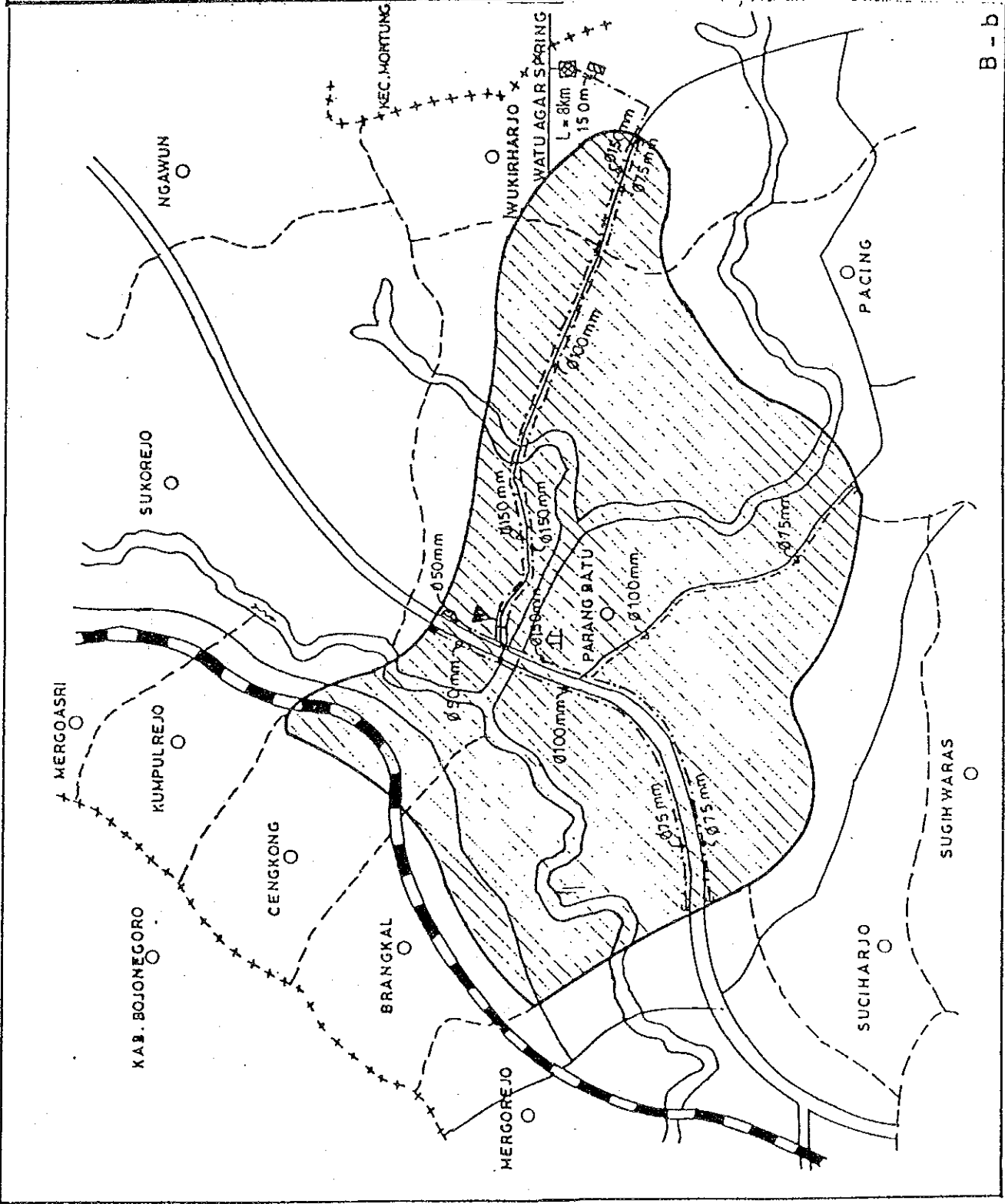
D-b

**LEGEND:**

- == MAIN ROAD
- DESA ROAD
- ▬ RAILWAY
- ++++ KEC. BOUNDARY
- - - DESA BOUNDARY
- ~ RIVER
- ⌈ KECAMATAN OFFICE
- DESA OFFICE
- ▨ I K K AREA
- ⊗ PROPOSED SPRING
- ▭ RESERVOIR
- ▽ ELEVATED TANK
- · - · - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPELINE

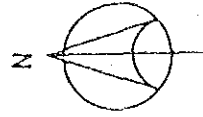
N

SCALE 1:10,000  
E-7



**LEGEND**

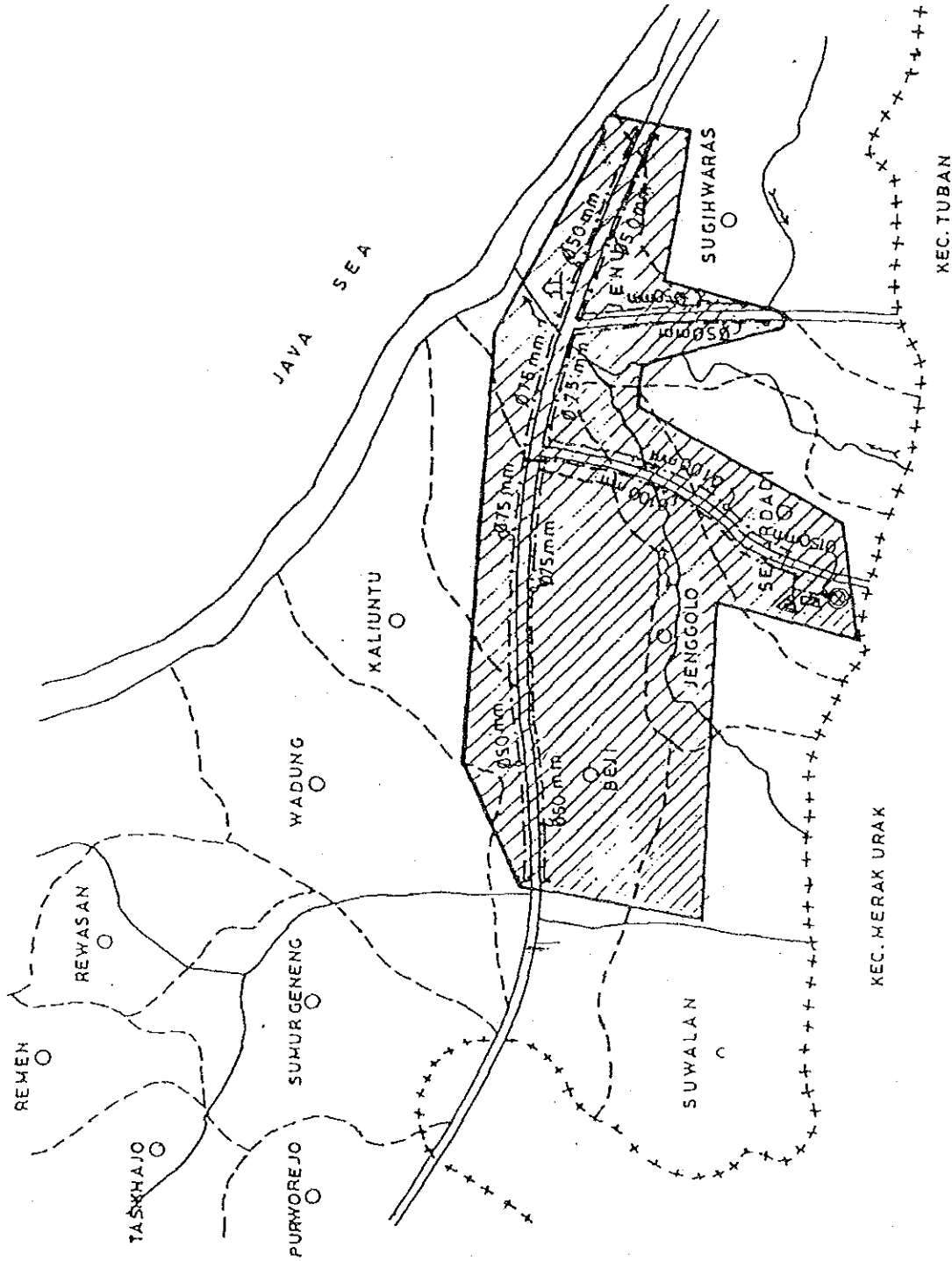
- = MAIN ROAD
- = DESA ROAD
- +++ = KEC. BOUNDARY
- - - = DESA BOUNDARY
- ~ ~ ~ = RIVER
- ↑ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = PROPOSED WELL
- ▽ = ELEVATED TANK
- ▩ = RESERVOIR
- · - · - = TRANSMISSION PIPE LINE
- - - = DISTRIBUTION PIPE LINE



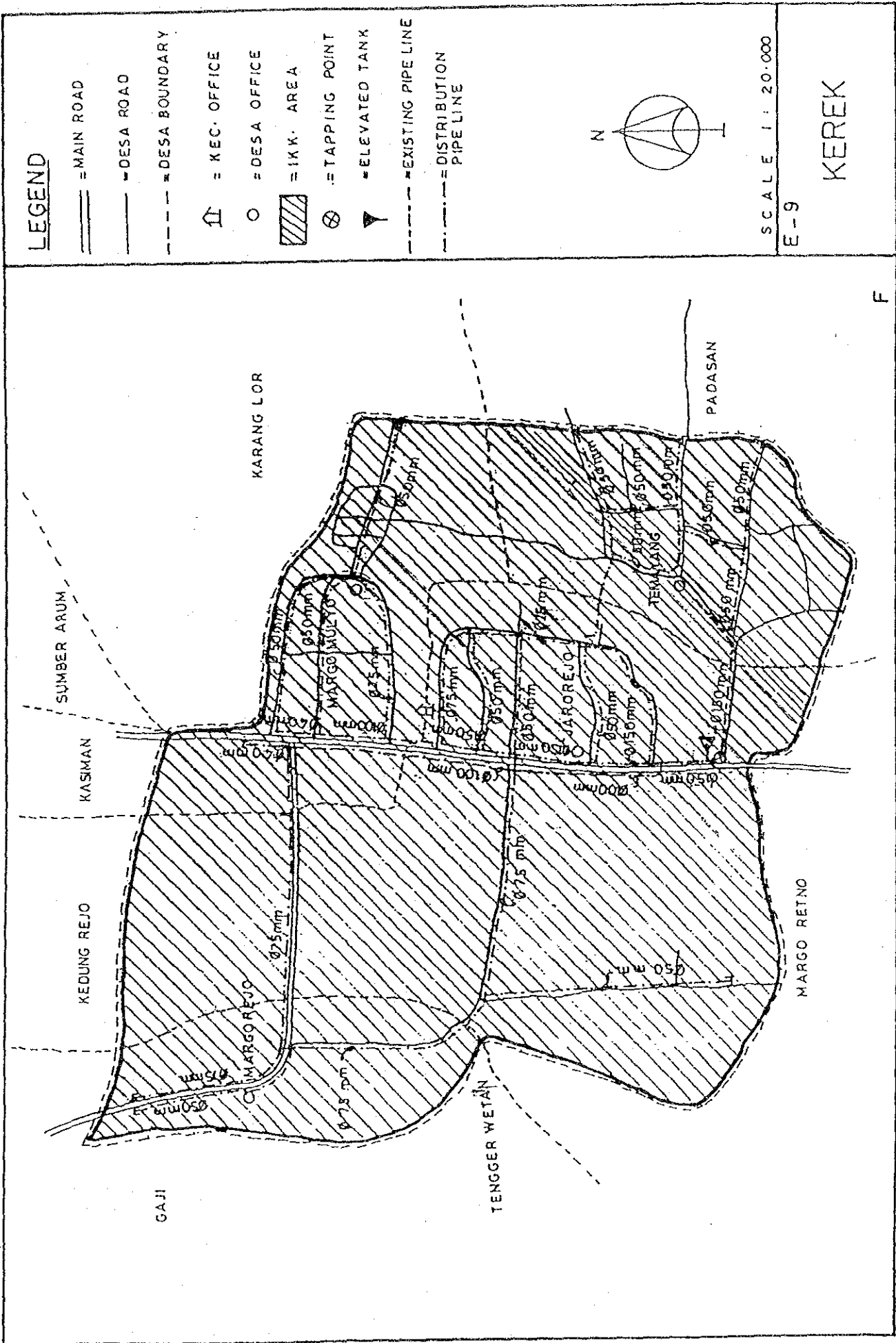
SCALE 1 : 10.000

E-8

JENU

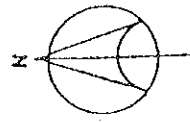


C - b



**LEGEND**

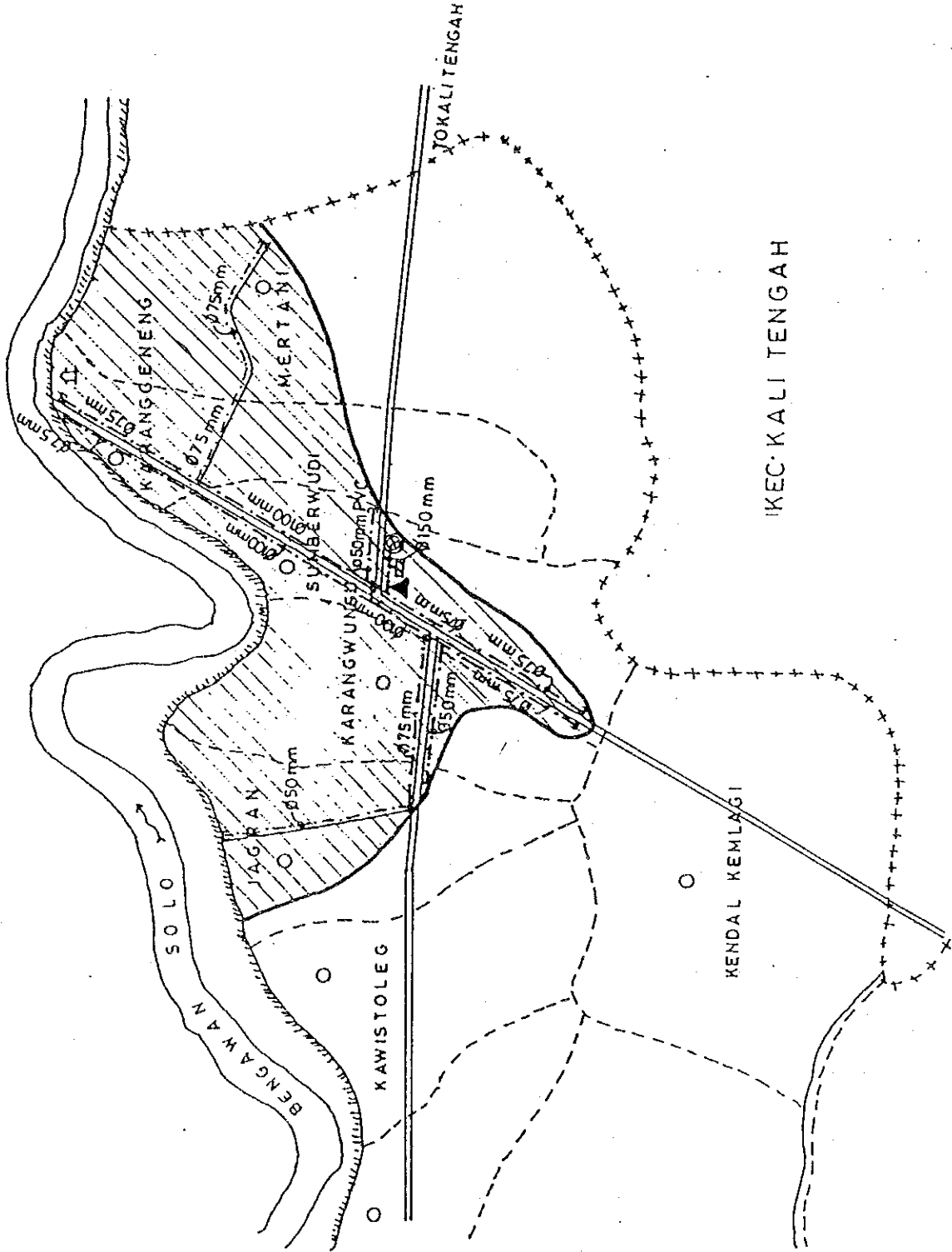
- == MAIN ROAD
- - - - DESA ROAD
- +++++ KEC. BOUNDARY
- - - - DESA BOUNDARY
- ~ ~ ~ RIVER
- DESA OFFICE
- ↑ KECAMATAN OFFICE
- ▭ IKK. AREA
- ⊗ PROPOSED WELL
- ⊞ RESERVOIR
- ▽ ELEVATED TANK
- - - - TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE



SCALE 1 : 25.000

E-10

KARANGGENENG

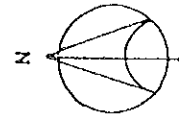


D - b



**LEGEND**

- = MAIN ROAD
- - - = DESA ROAD
- ++++ = KEC. BOUNDARY
- - - - = DESA BOUNDARY
- ~ ~ ~ = RIVER
- ↑ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = PROPOSED WELL
- ▩ = RESERVOIR
- ▽ = ELEVATED TANK
- = TRANSMISSION PIPE LINE
- - - - = DISTRIBUTION PIPE LINE



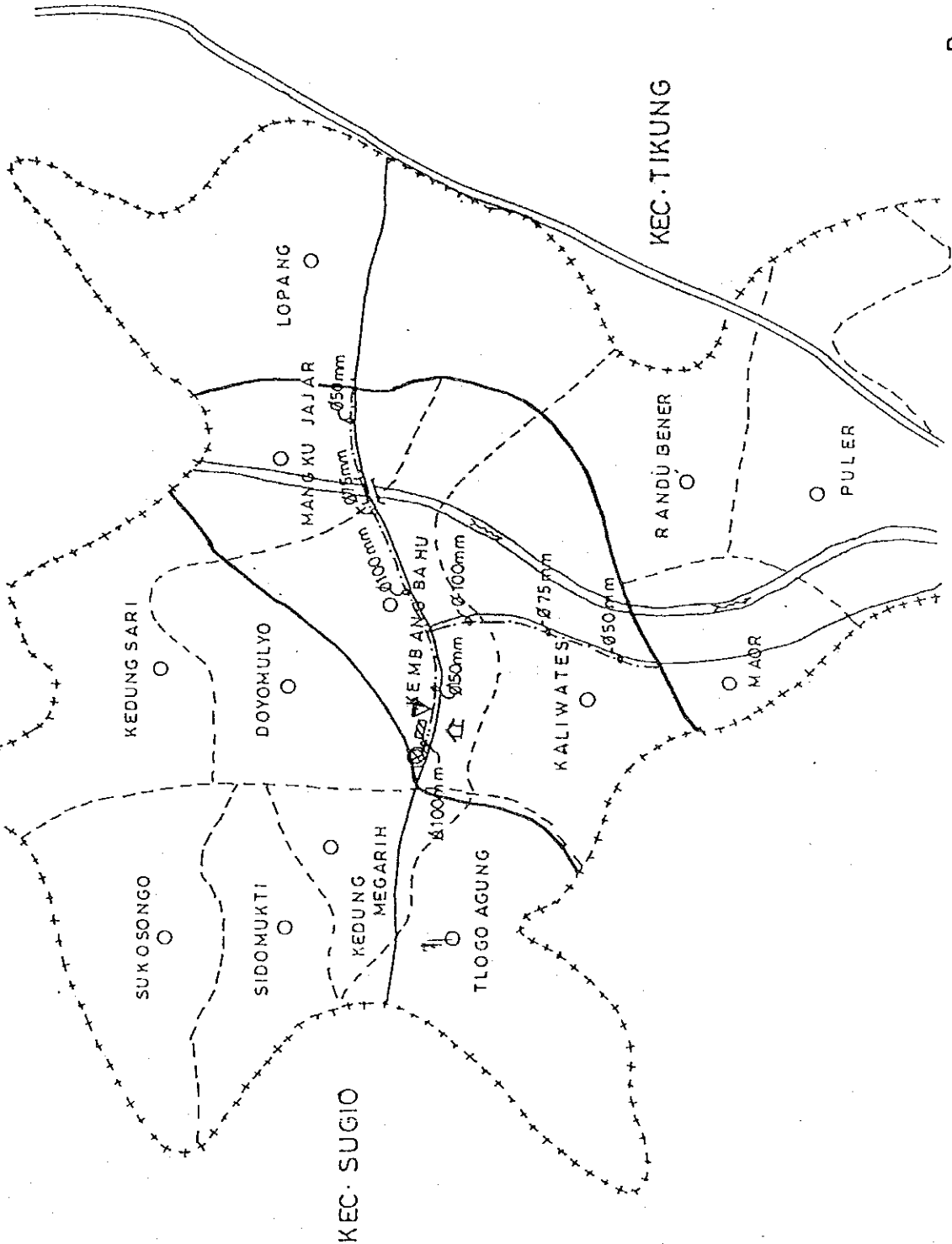
SCALE 1 : 35.000

E - 11

KEMBANGBAHU

KEC. LAMONGAN

KEC. SUKODADI



KEC. SUGIO

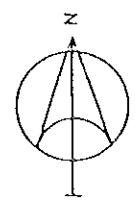
KEC. TIKUNG

D - b



**LEGEND**

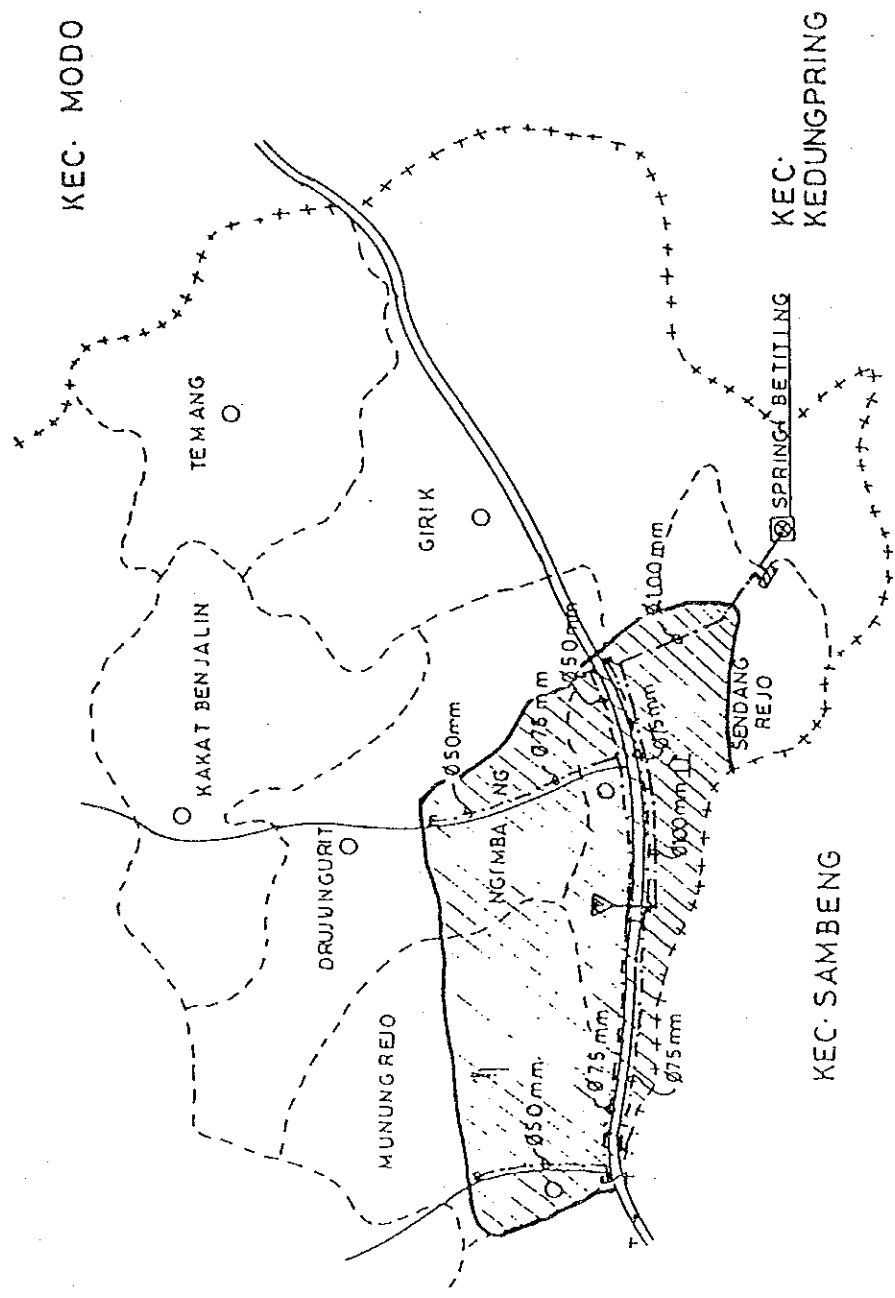
- ==== = MAIN ROAD
- = DESA ROAD
- ++++ = KEC BOUNDARY
- = DESA BOUNDARY
- = DESA OFFICE
- ⊥ = KEC OFFICE
- ▨ = IKK AREA
- ⊗ = PROPOSED SPRING
- ☐ = RESERVOIR
- ▽ = ELEVATED TANK
- = TRANSMISSION PIPE LINE
- - - = DISTRIBUTION PIPE LINE



SCALE 1 : 60 . 000

E - 13

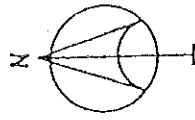
**NGIMBANG**



B - b

**LEGEND**

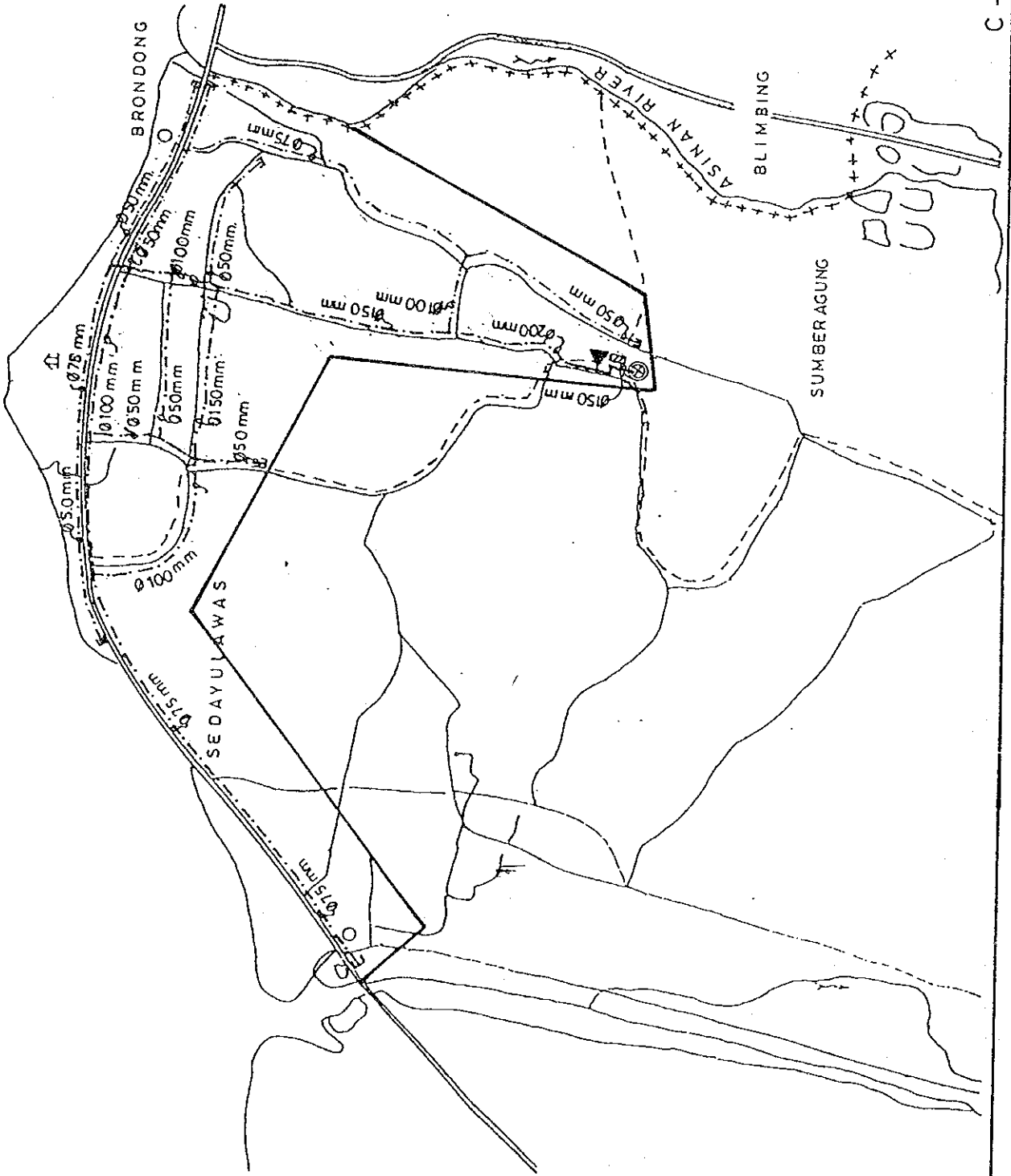
- == = MAIN ROAD
- = DESA ROAD
- + + + + = KEC. BOUNDARY
- - - - = DESA BOUNDARY
- ~ ~ ~ = RIVER
- = DESA OFFICE
- ⬆ = KECAMATAN OFFICE
- ▨ = IKK AREA
- ⊙ = PROPOSED WELL
- ▽ = ELEVATED TANK
- ⊞ = RESERVOIR
- · - · = TRANSMISSION PIPE LINE
- - - - = DISTRIBUTION PIPE LINE



SCALE 1 : 12.000

E - 14

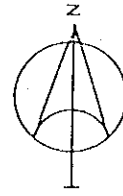
BRONDONG



C - b

**LEGEND**

- == MAIN ROAD
- +++++ KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK. AREA
- ⊕ PROPOSED WELL
- ☐ RESERVOIR
- ▲ ELEVATED TANK
- · - · - · TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE

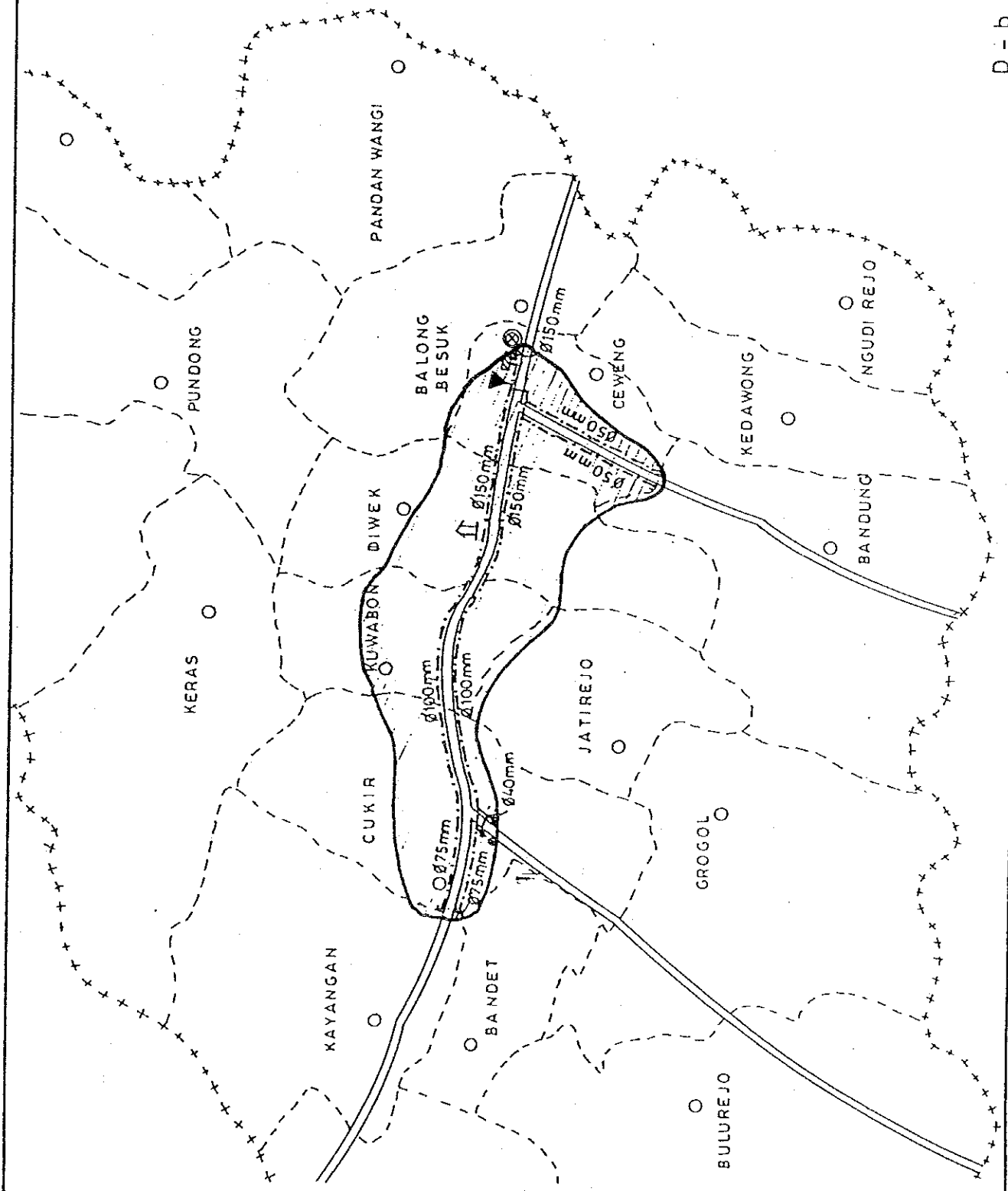


SCALE 1 : 30.000

E-15

DIWEK

D - b



**LEGEND**

- == MAIN ROAD
- DESA ROAD
- ++++ KEC. BOUNDARY
- - - - DESA BOUNDARY
- ⌈ KEC. OFFICE
- DESA OFFICE
- ▨ IKK. AREA
- ⊗ PROPOSED WELL
- ☐ RESERVOIR
- ▲ ELEVATED TANK
- - - - TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE

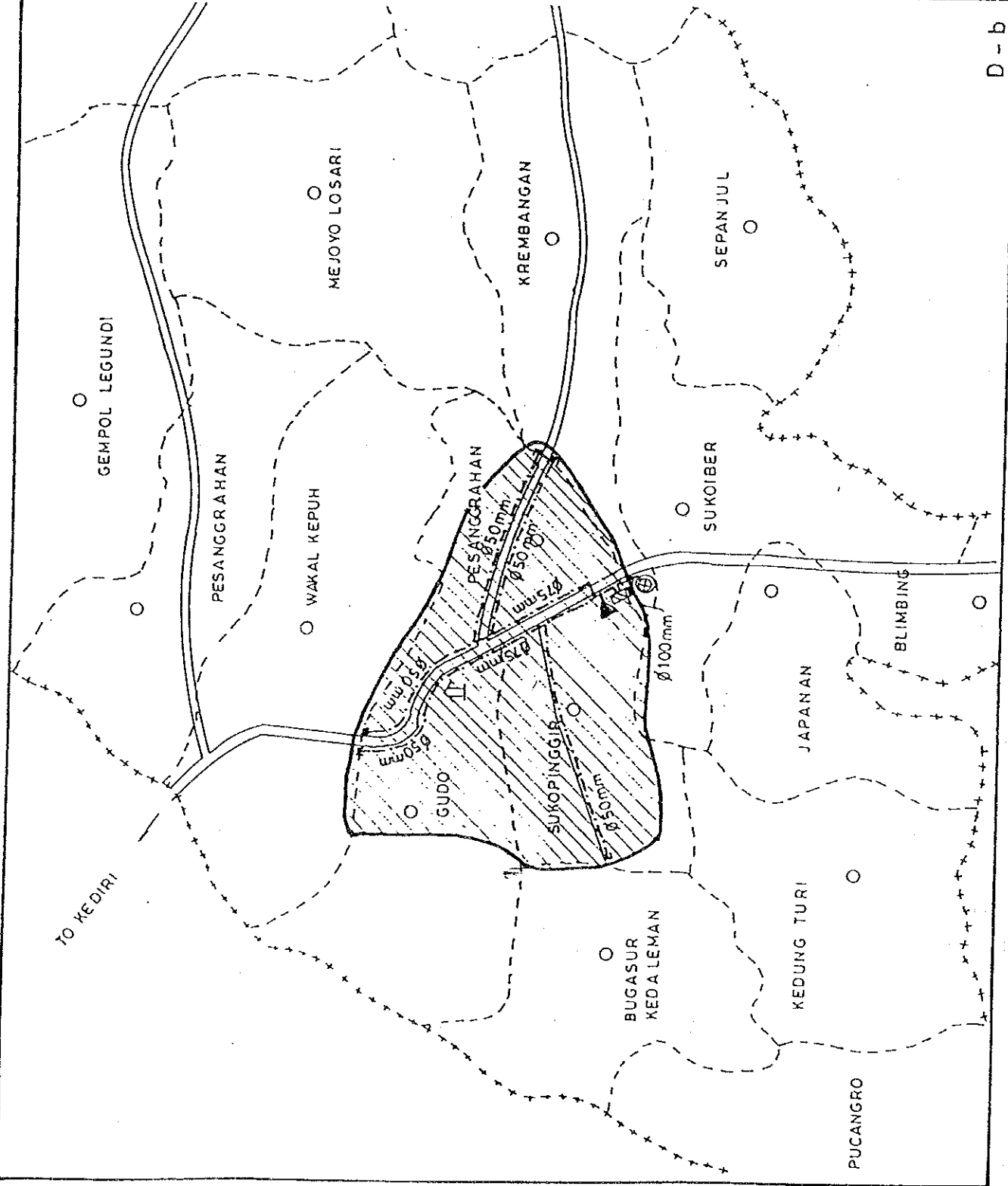


SCALE 1 : 30.000

E-16

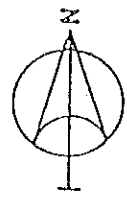
GUDO

D - b



**LEGEND:**

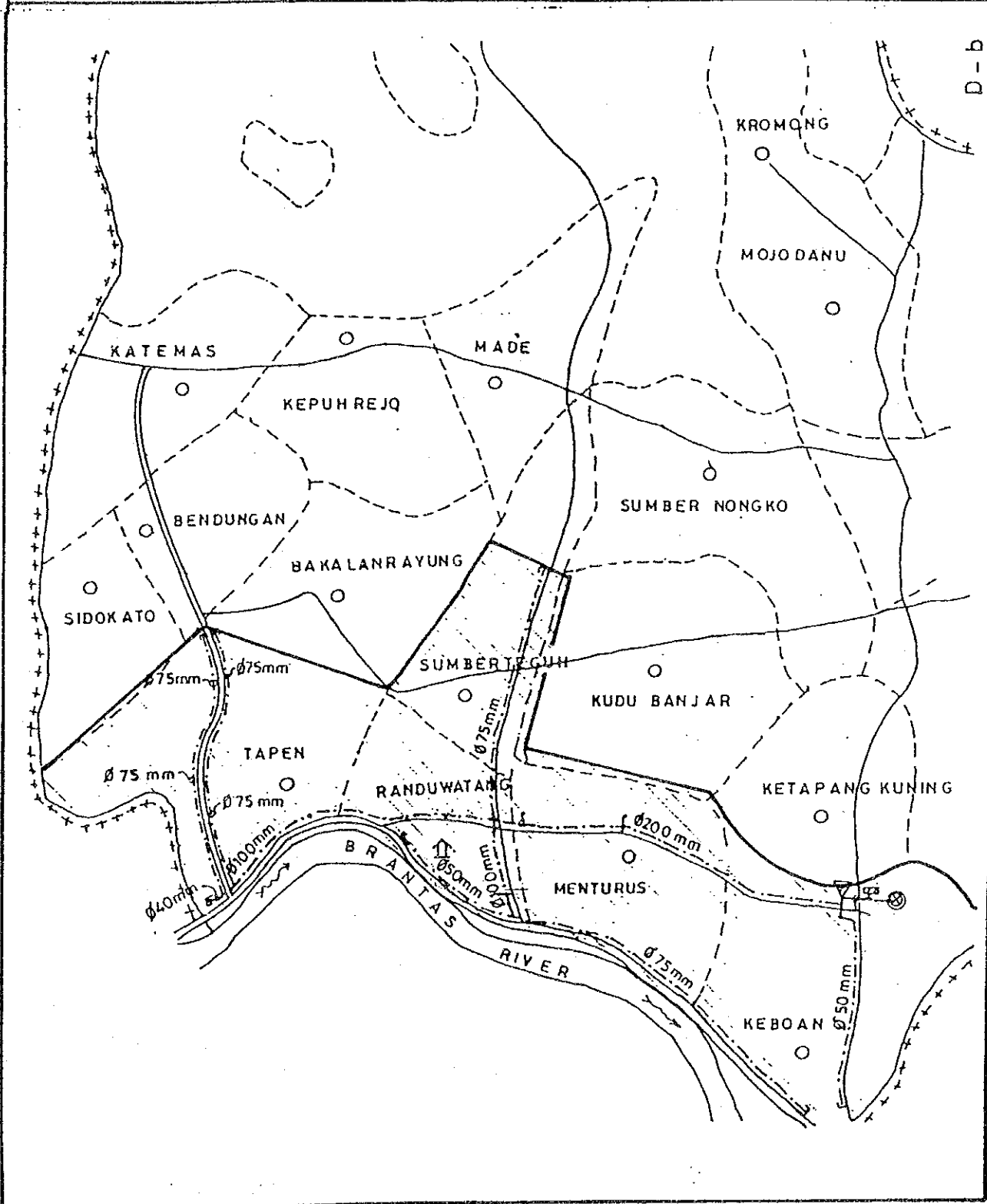
- == MAIN ROAD
- - - - - DESA ROAD
- + - + - KAB. BOUNDARY
- + + + + KEC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ ~ ~ RIVER
- DESA OFFICE
- ⊕ KECAMATAN OFFICE
- ▨ IKK AREA
- ⊙ PROPOSED WELL
- ⊞ RESERVOIR
- ▲ ELEVATED TANK
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 30,000

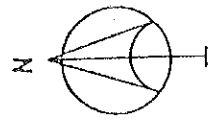
E-17

KUDU



**LEGEND**

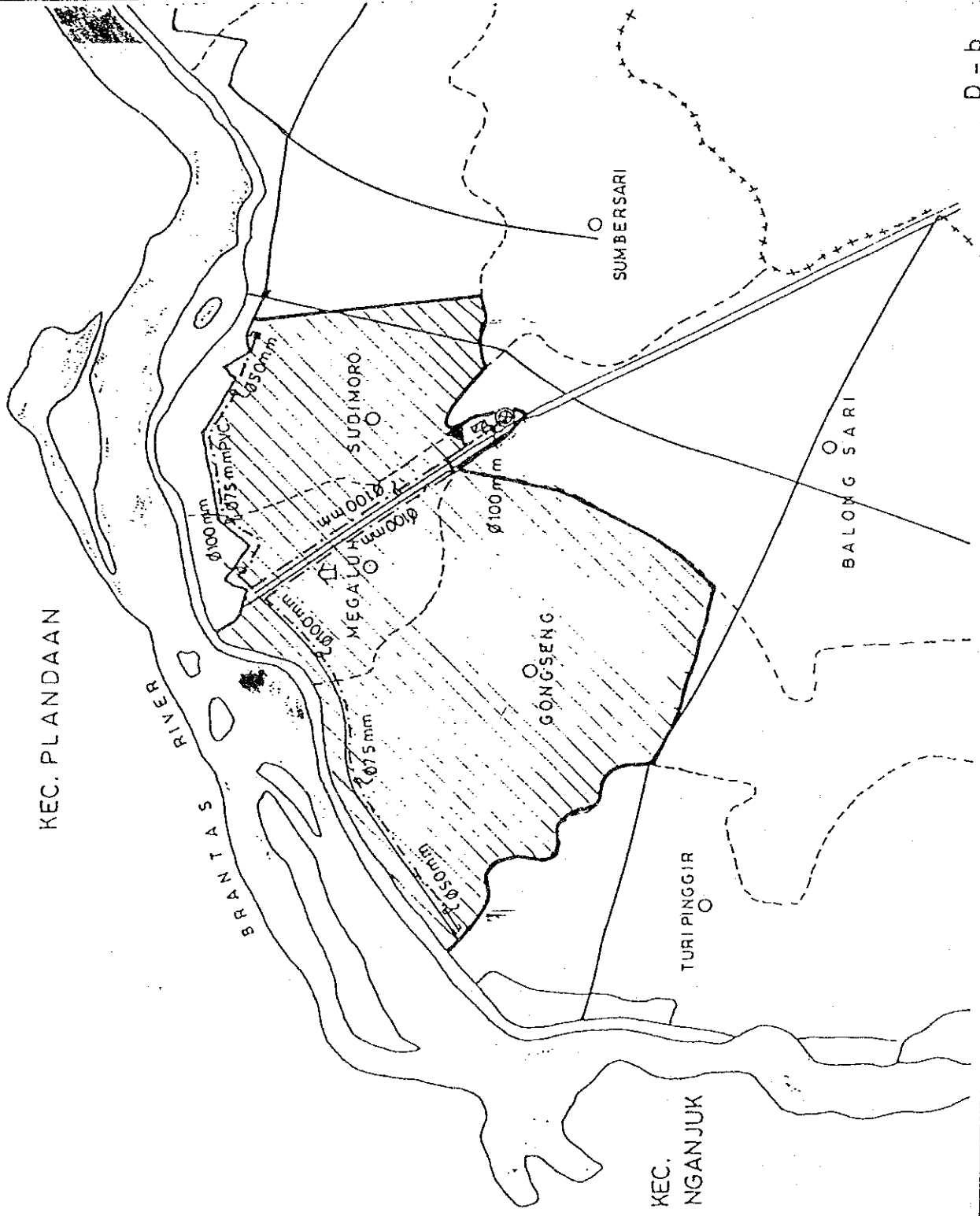
- == MAIN ROAD
- - - PATH ROAD
- + + + + + = KEC. BOUNDARY
- - - - - = DESA BOUNDARY
- ↑ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = PROPOSED WELL
- ⊞ = RESERVOIR
- ▽ = ELEVATED TANK
- — — TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 33.000

E-18

MEGALUH





**LEGEND**

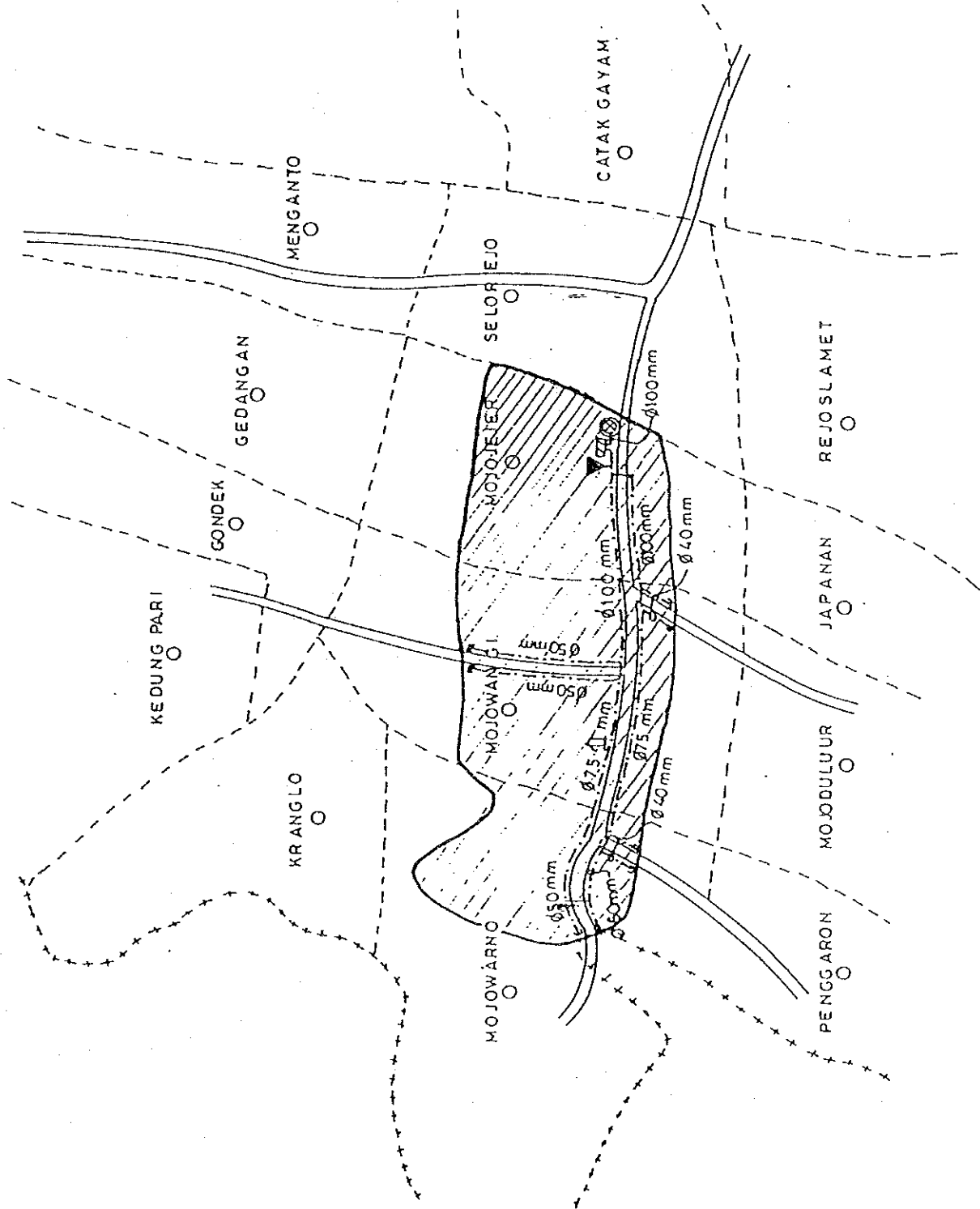
- == MAIN ROAD
- + + + + + = KEC. BOUNDARY
- - - - - = DESA BOUNDARY
- ↑ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK. AREA
- ⊗ = PROPOSED WELL
- ⊞ = RESERVOIR
- ▽ = ELEVATED TANK
- - - - - = TRANSMISSION PIPE LINE
- - - - - = DISTRIBUTION PIPE LINE



SCALE 1 : 25.000

E-19

MOJOWARNO



D-b

**LEGEND**

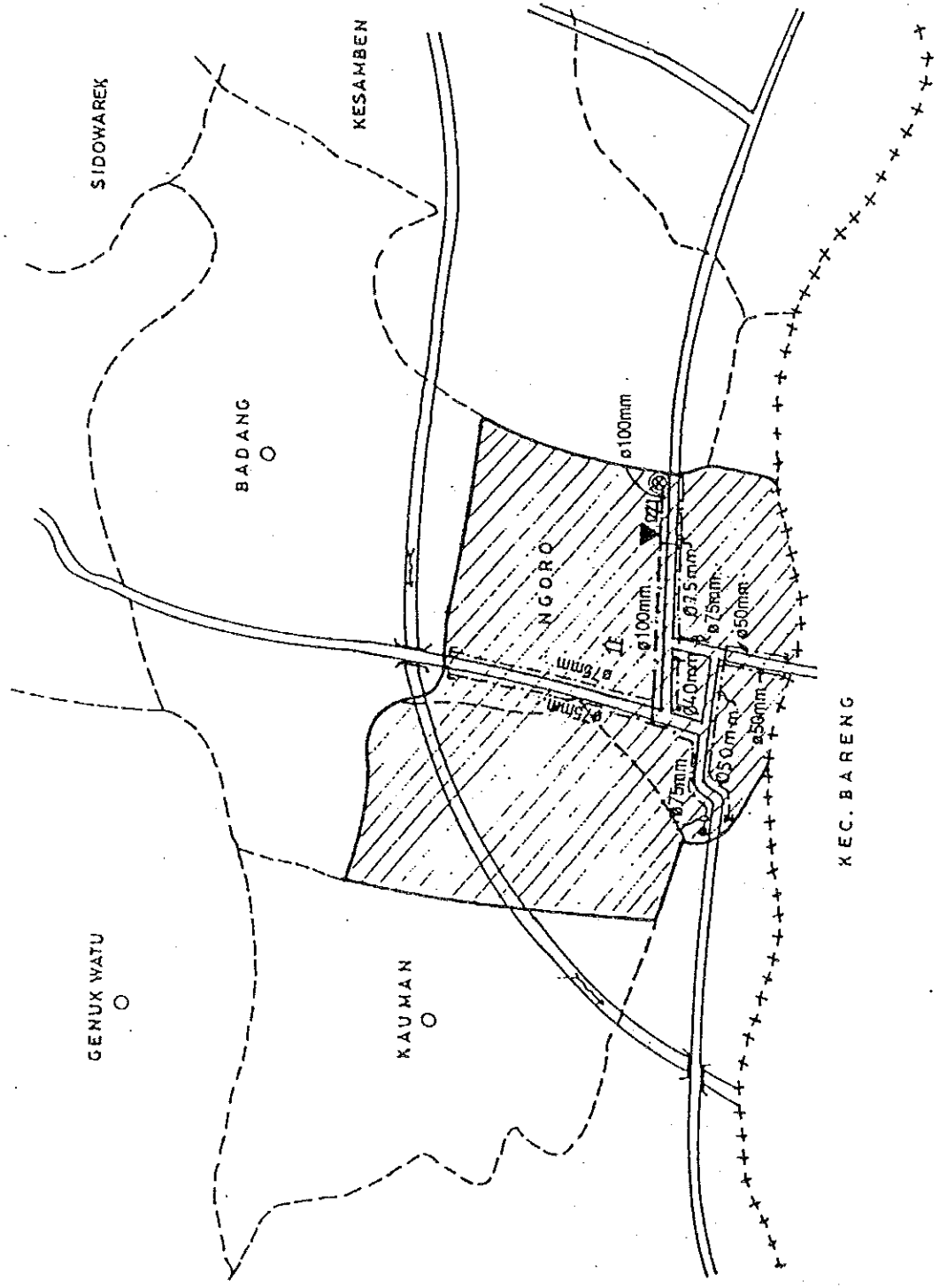
- == MAIN ROAD
- +++ KEC. BOUNDARY
- - - DESA BOUNDARY
- ~ RIVER
- ⌈ KECAMATAN OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊙ PROPOSED WELL
- ⊞ RESERYOIR
- ▽ ELEVATED TANK
- · - · - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 15.000

E-20

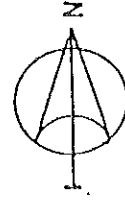
NGORO



D-b

**LEGEND**

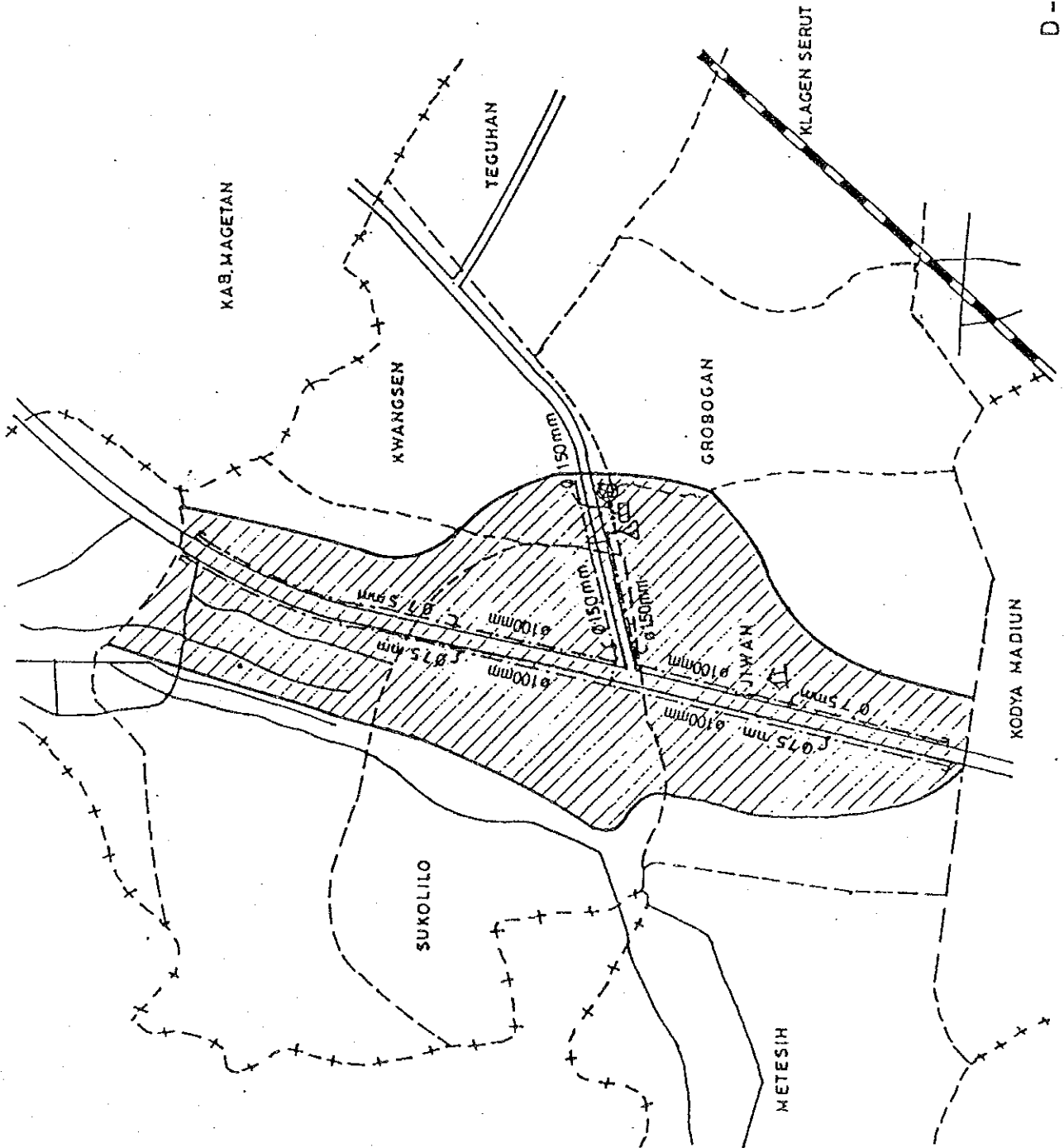
- == MAIN ROAD
- DESA ROAD
- +--+ KAB. BOUNDARY
- ++++ KEC. BOUNDARY
- DESA BOUNDARY
- ≡ RAILWAY
- ⌊ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊙ PROPOSED WELL
- ⊞ RESERVOIR
- ▽ ELEVATED TANK
- TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE: 1 : 10.000

E-21

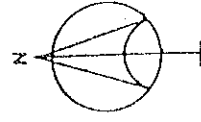
JIWAN



D-b

**LEGEND**

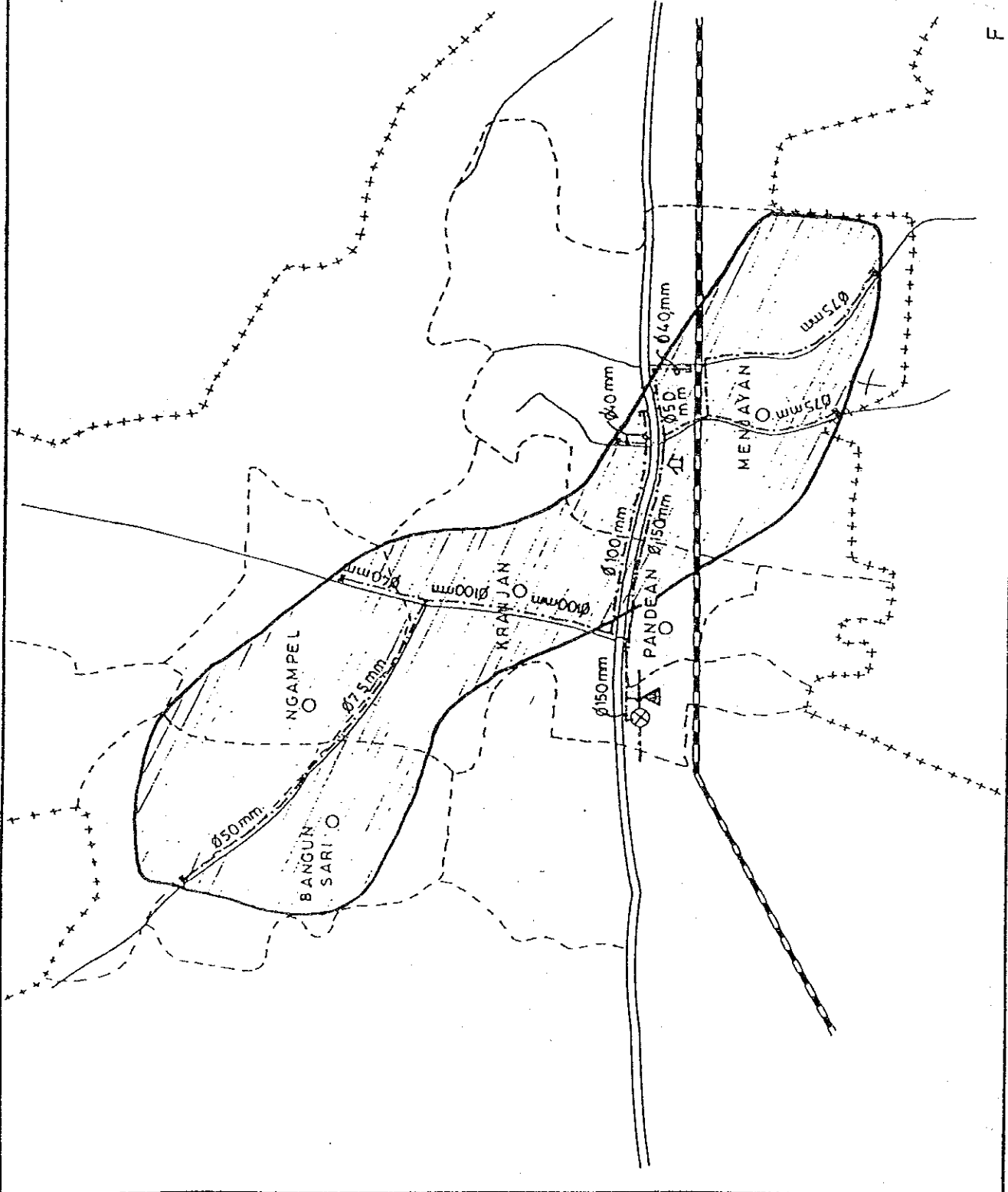
- == MAIN ROAD
- DESA ROAD
- ⊘ RAILWAY
- ++++ KEC BOUNDARY
- - - DESA BOUNDARY
- ⚡ = KEC OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = TAPPING POINT
- ▽ = ELEVATED TANK
- - - EXISTING PIPE LINE
- - - DISTRIBUTION PIPELINE



SCALE 1 : 12 . 000

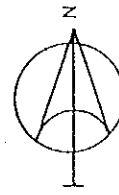
E-22

MEJAYAN



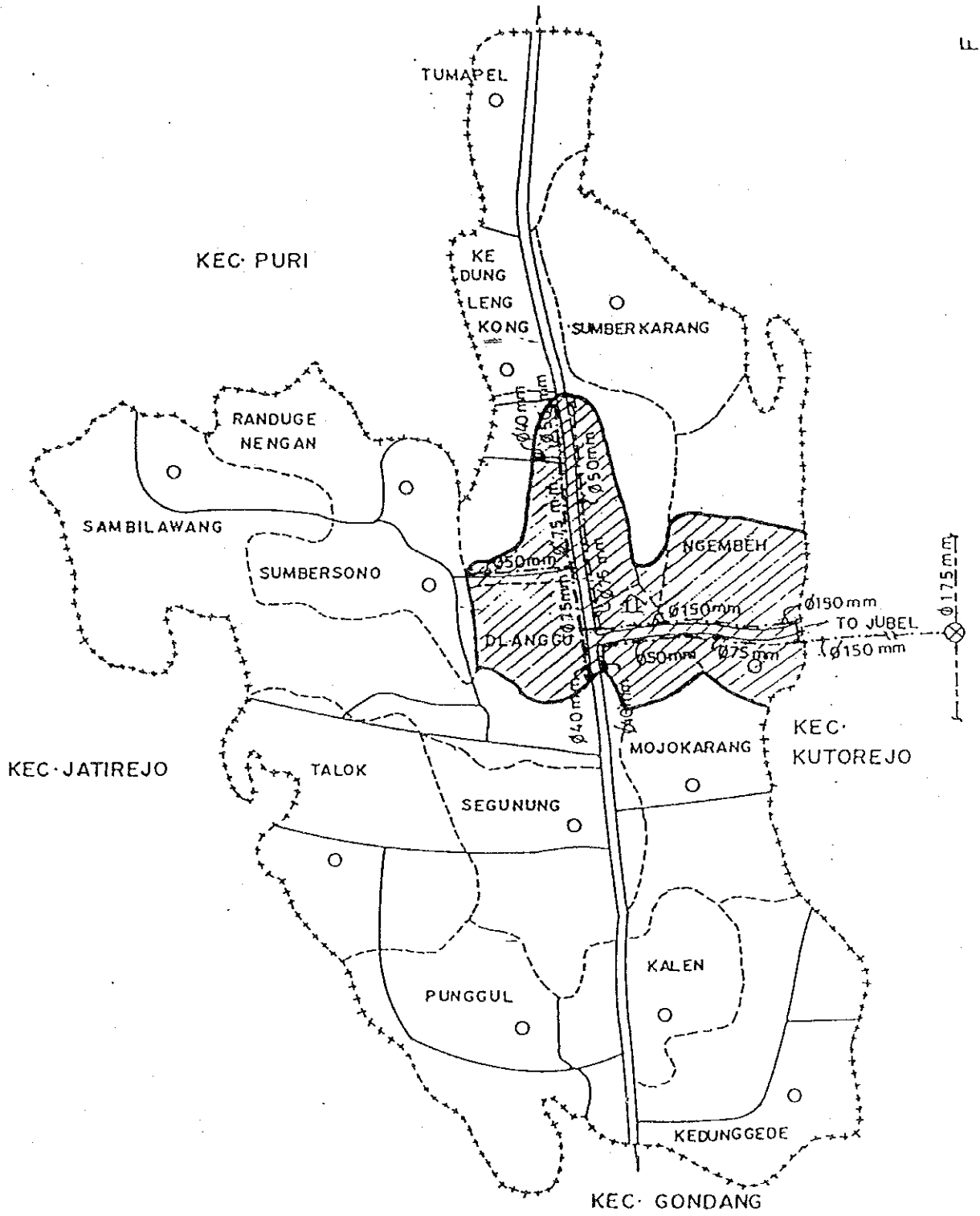
**LEGEND**

- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- DESA OFFICE
- ↑ KEC. OFFICE
- ▨ IKK. AREA
- ⊗ TAPPING POINT
- - - DISTRIBUTION PIPE LINE
- - - EXISTING PIPELINE



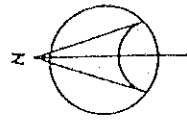
SCALE 1 : 60.000  
E-23

DLANGGU



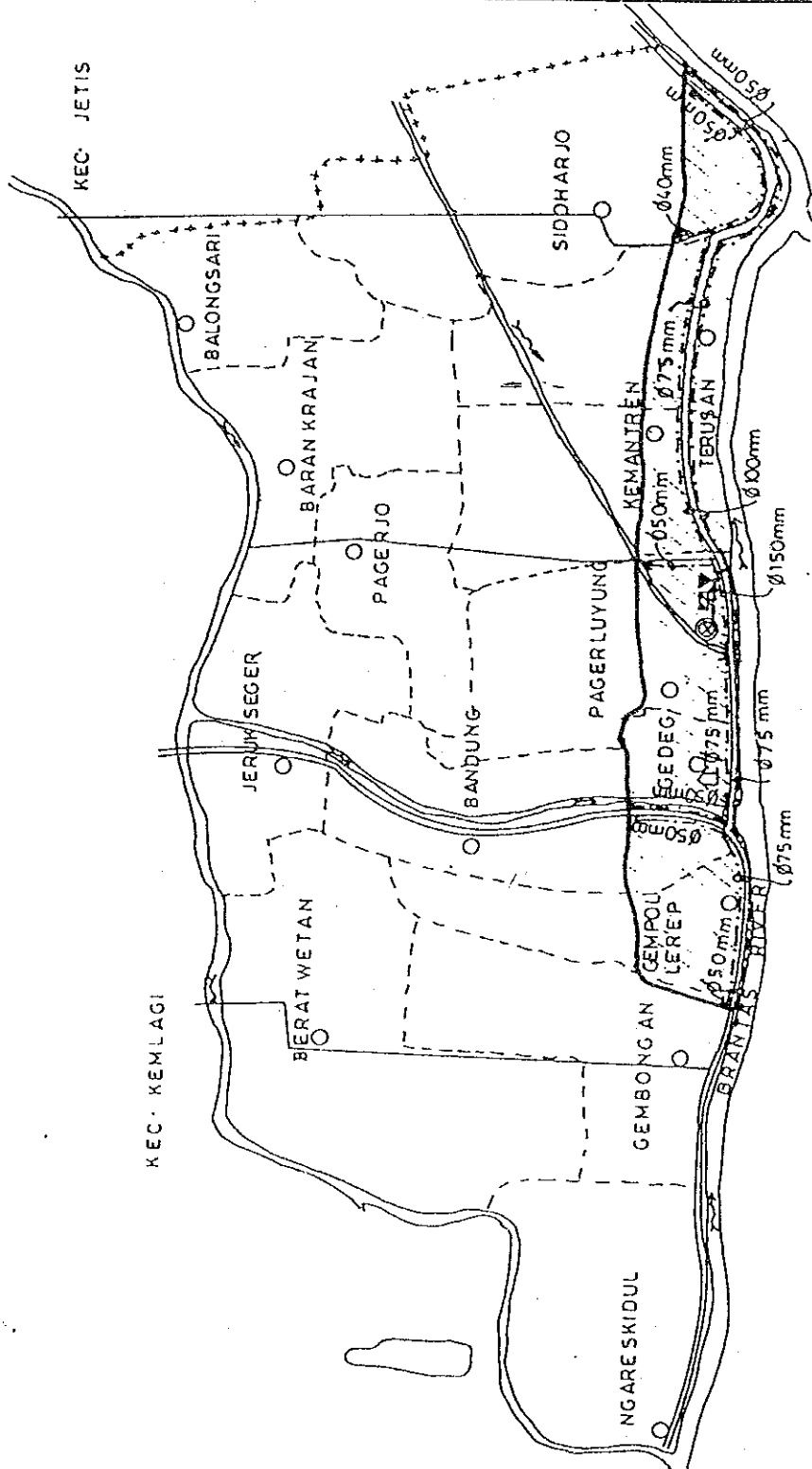
**LEGEND**

- == MAIN ROAD
- DESA ROAD
- +++ KEC BOUNDARY
- DESA BOUNDARY
- ~ RIVER
- ↑ KEC OFFICE
- DESA OFFICE
- ▨ IXX AREA
- ⊗ PROPOSED WELL
- ⊞ RESERVOIR
- ▲ ELEVATED TANK
- - - TRANSMISSION PIPELINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 50.000  
E-24

**GEDEG**

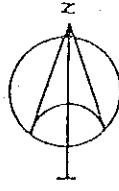


KODYA MOJOKERTO

D-b

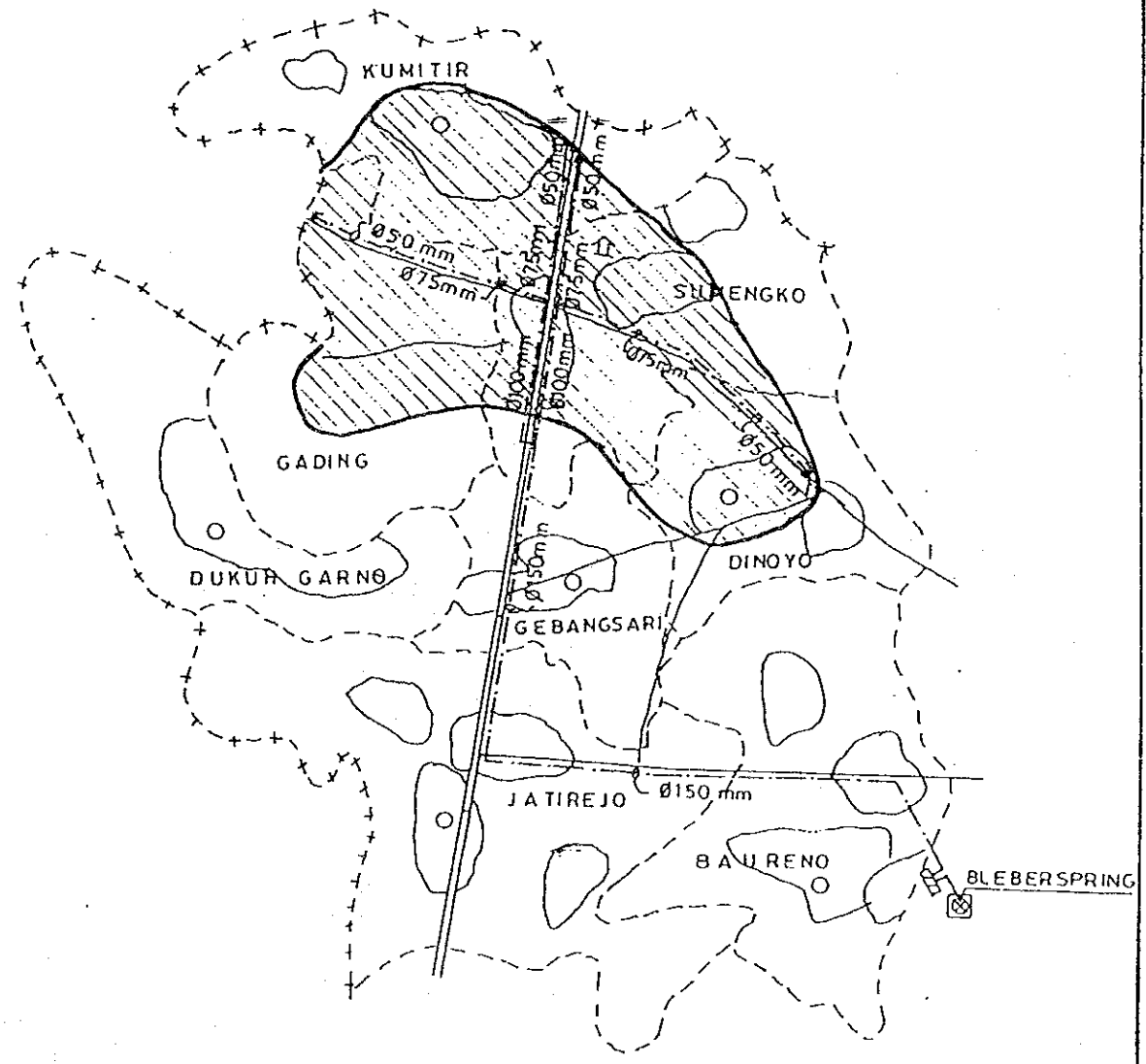
**LEGEND**

- == MAIN ROAD
- DESA ROAD
- +--+ BOUNDARY
- ++++ BOUNDARY
- - - - DESA BOUNDARY
- ↑ DESA OFFICE
- DESA OFFICE
- ▨ IKK. AREA
- ⊗ PROPOSED SPRING
- ▩ RESERVOIR
- · - · - · TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE



SCALE 1 : 50.000  
E-25

**JATIREJO**



A - 2

**LEGEND**

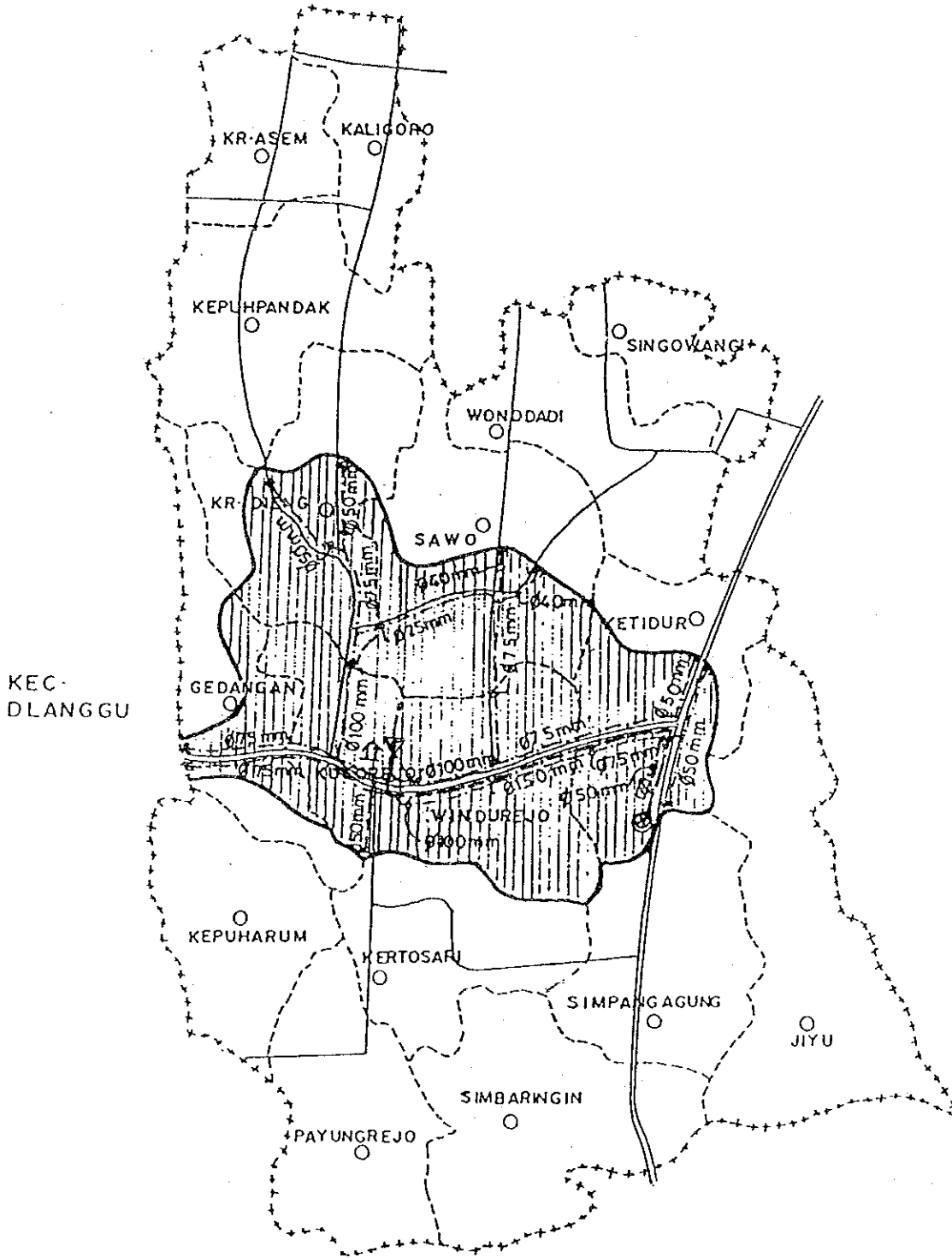
- MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED WELL
- ▤ RESERVOIR
- ▽ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 50.000

E-26

KUTOREJO



D - b



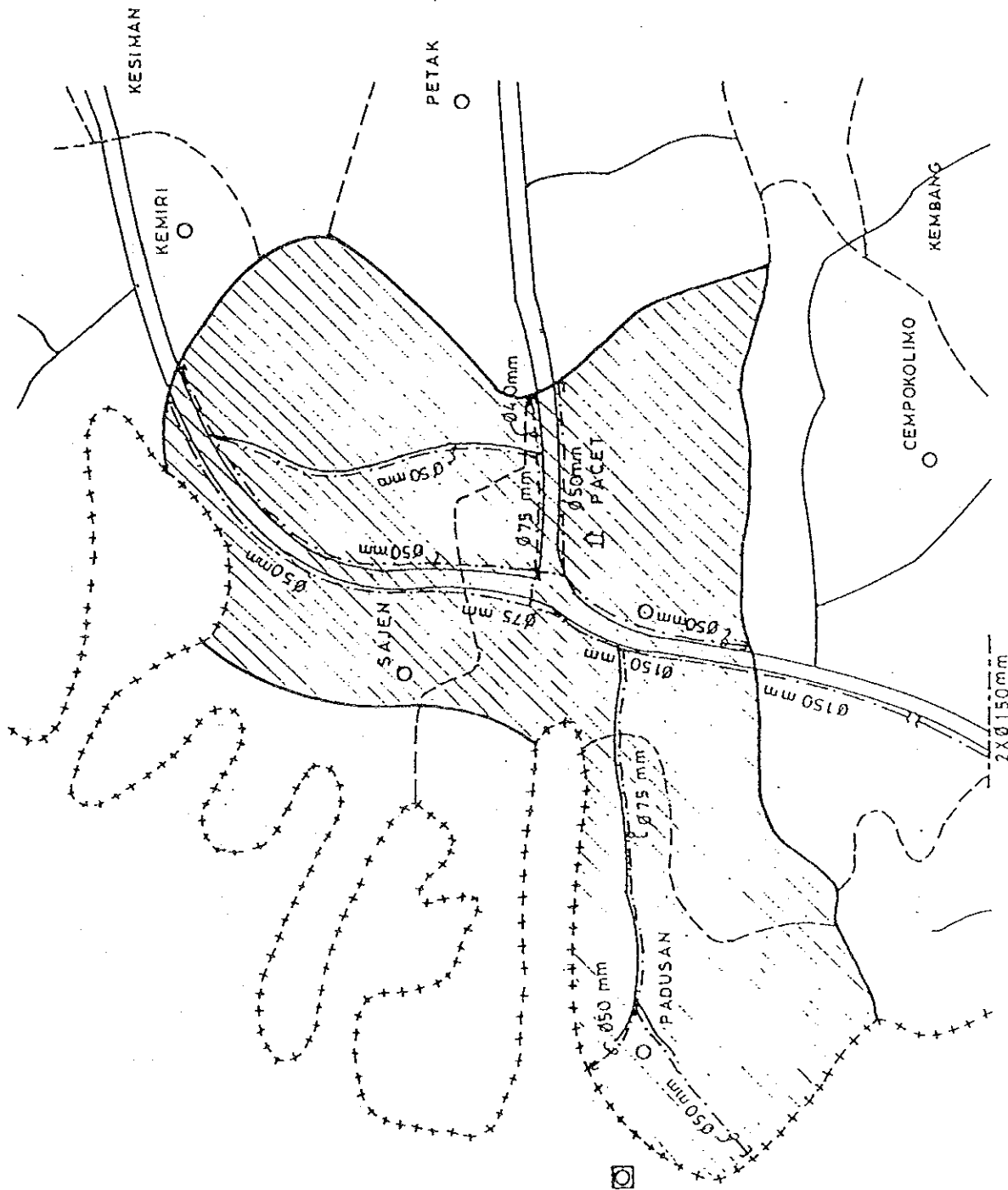
**LEGEND**

- ==== = MAIN ROAD
- = DESA ROAD
- ++++ = KEC. BOUNDARY
- = DESA BOUNDARY
- ↑ = KEC. OFFICE
- = DESA OFFICE
- = SPRING
- ▨ = IKK AREA
- - - - = EXISTING PIPELINE
- · - · - = DISTRIBUTION PIPE LINE



SCALE 1 : 10.000  
E-27

PACET



F

**LEGEND**

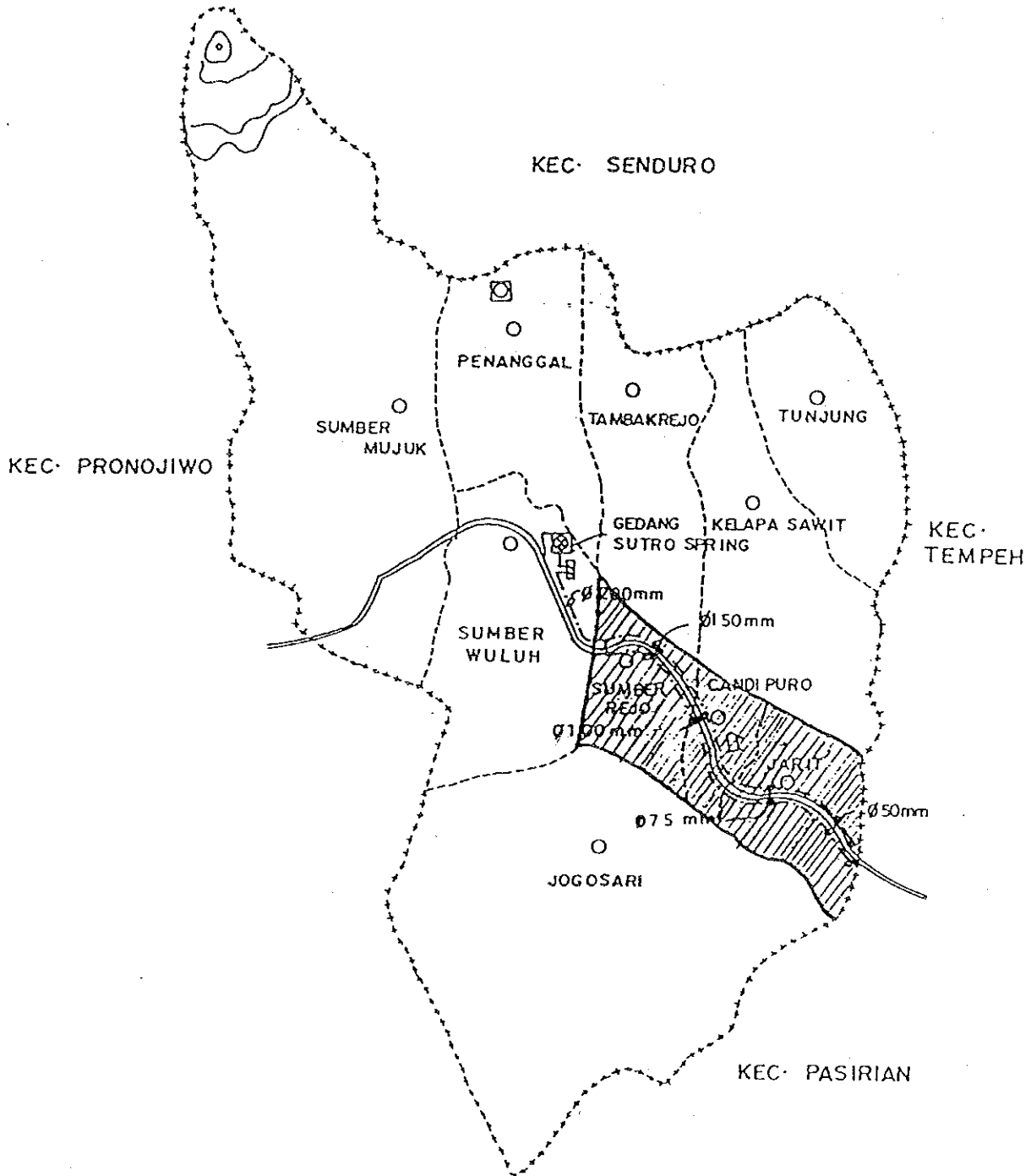
- == MAIN ROAD
- - - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- ↑ KEC. OFFICE
- DESA OFFICE
- SPRING
- ▨ IKK AREA
- ⊠ PROPOSED SPRING
- ▤ RESERVOIR
- · - · - · TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE



SCALE 1 : 50.000

E - 28

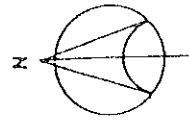
CANDIPURO



A - a

**LEGEND**

- == MAIN ROAD
- - - - - DESA ROAD
- - - - - DESA BOUNDARY
- + + + + + KEC BOUNDARY
- ~ ~ ~ ~ ~ RIVER
- ⬆ = KEC OFFICE
- = DESA OFFICE
- ⊠ = SPRING
- ▨ = IKK AREA
- ⊞ = PROPOSED SPRING
- ⊞ = RESERVOIR
- · - · - · = TRANSMISSION PIPE LINE
- - - - - = DISTRIBUTION PIPE LINE

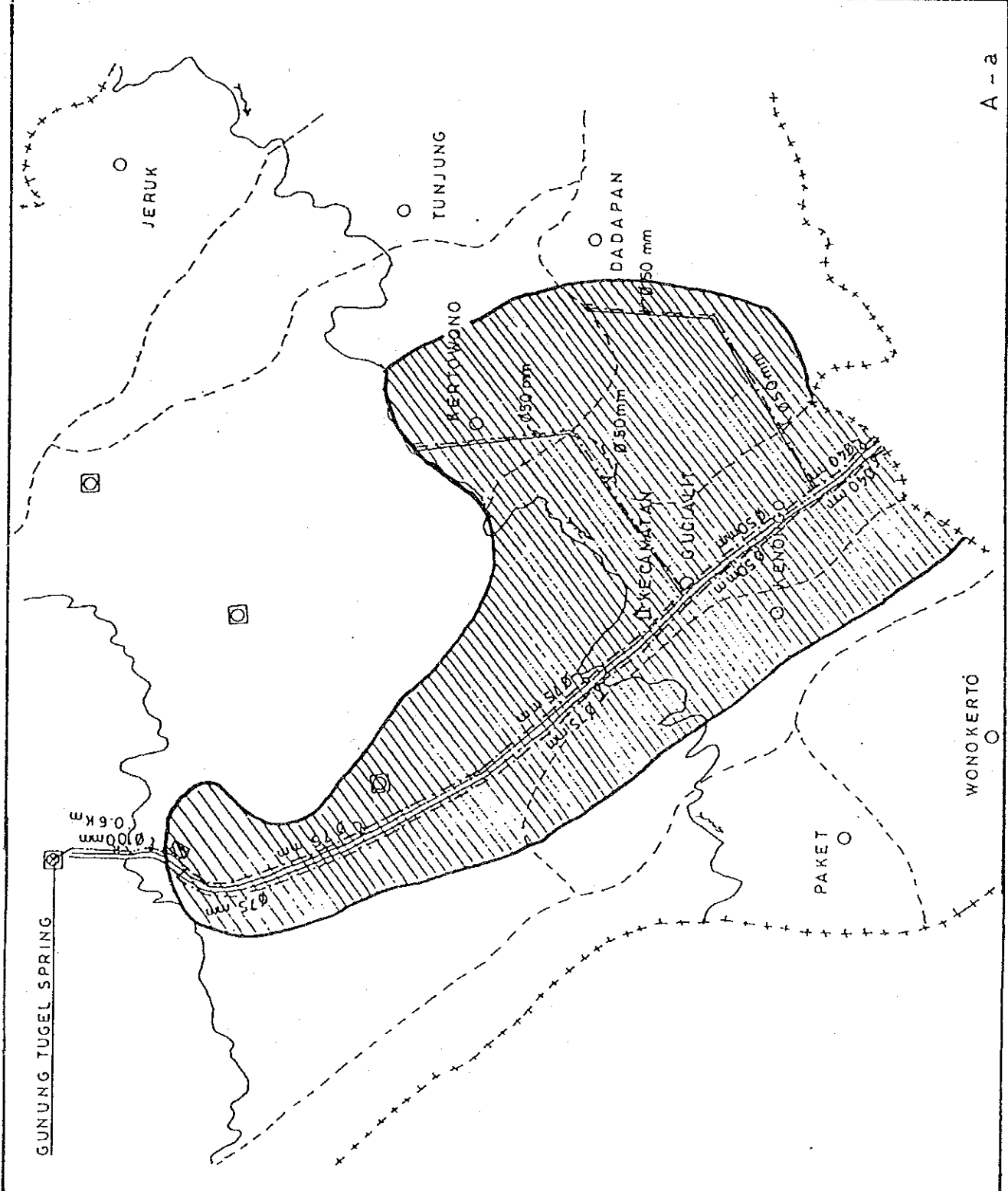


SCALE : 1 : 10.000

E-29

GUCIALIT

A-a



**LEGEND**

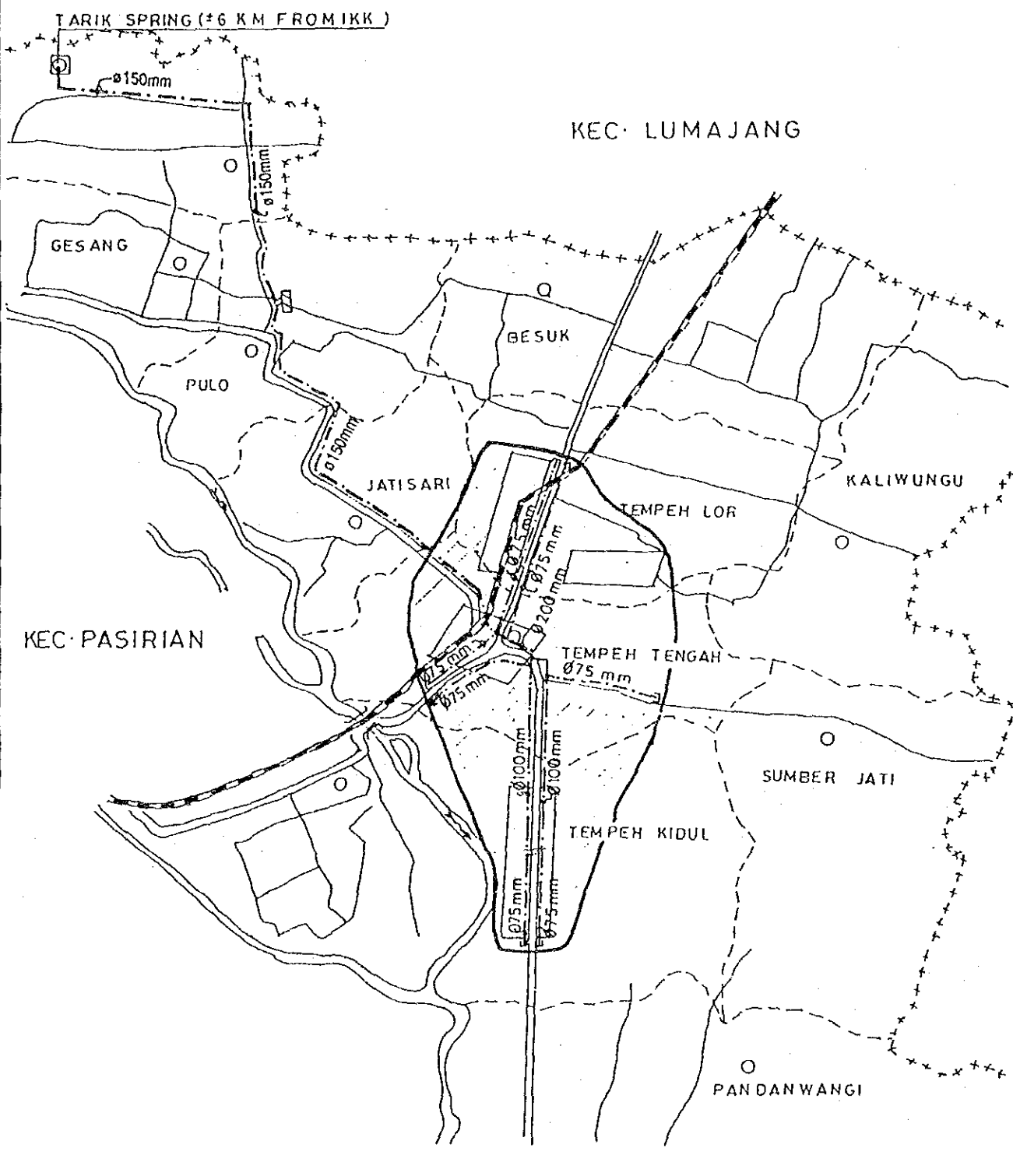
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC BOUNDARY
- RAIL WAY
- ~ RIVER
- DESA OFFICE
- ⊗ PROPOSED SPRING
- ▨ IKK AREA
- - - DISTRIBUTION PIPE LINE
- ZZZ RESERVOIR



SCALE 1 : 30.000

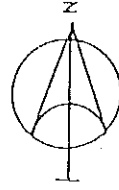
E-3D

TEMPEH



**LEGEND**

- == = MAIN ROAD
- = DESA ROAD
- - - = DESA BOUNDARY
- · - · - = KEC. BOUNDARY
- = DESA OFFICE
- ⌈ = KECAMATAN OFFICE
- ▨ = IKK AREA
- ▩ = RESERVOIR
- ⊙ = PROPOSED WELL
- ▽ = ELEVATED TANK
- · - · - = TRANSMISSION PIPE LINE
- · - · - = DISTRIBUTION PIPE LINE

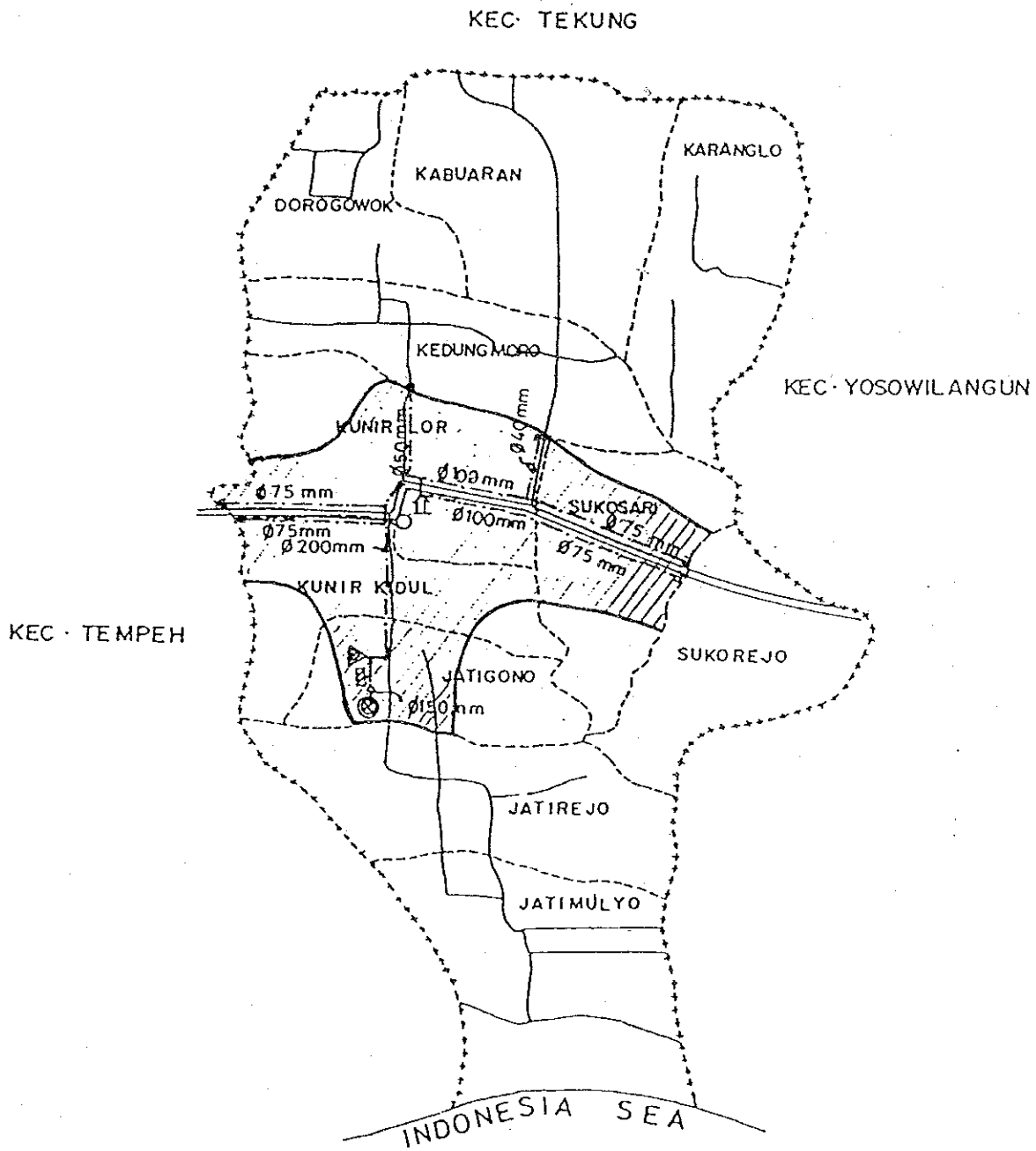


SCALE 1 : 20.000

E - 31

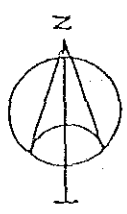
KUNIR

D - b



**LEGEND**

- == MAIN ROAD
- DESA ROAD
- ≡ RAILWAY
- ++++ KEC. BOUNDARY
- - - - DESA BOUNDARY
- DESA OFFICE
- ⊕ KEC. OFFICE
- ▨ IKK. AREA
- ⊗ PROPOSED SPRING
- ⊞ RESERVOIR
- ▽ ELEVATED TANK
- - - - TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE

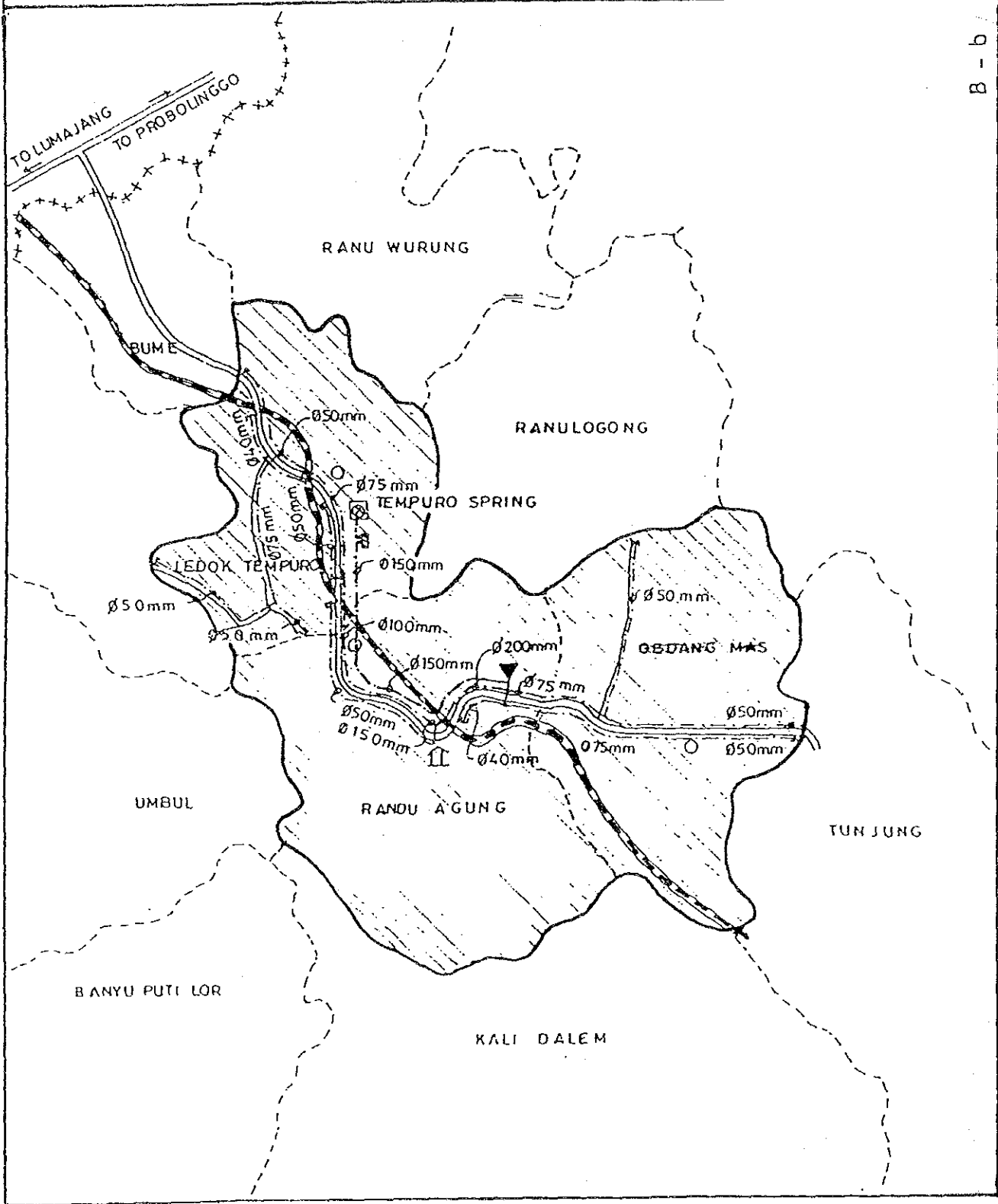


SCALE : 1 : 50,000

E - 32

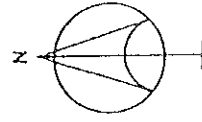
**RANDUJAGUNG**

B - b



**LEGEND**

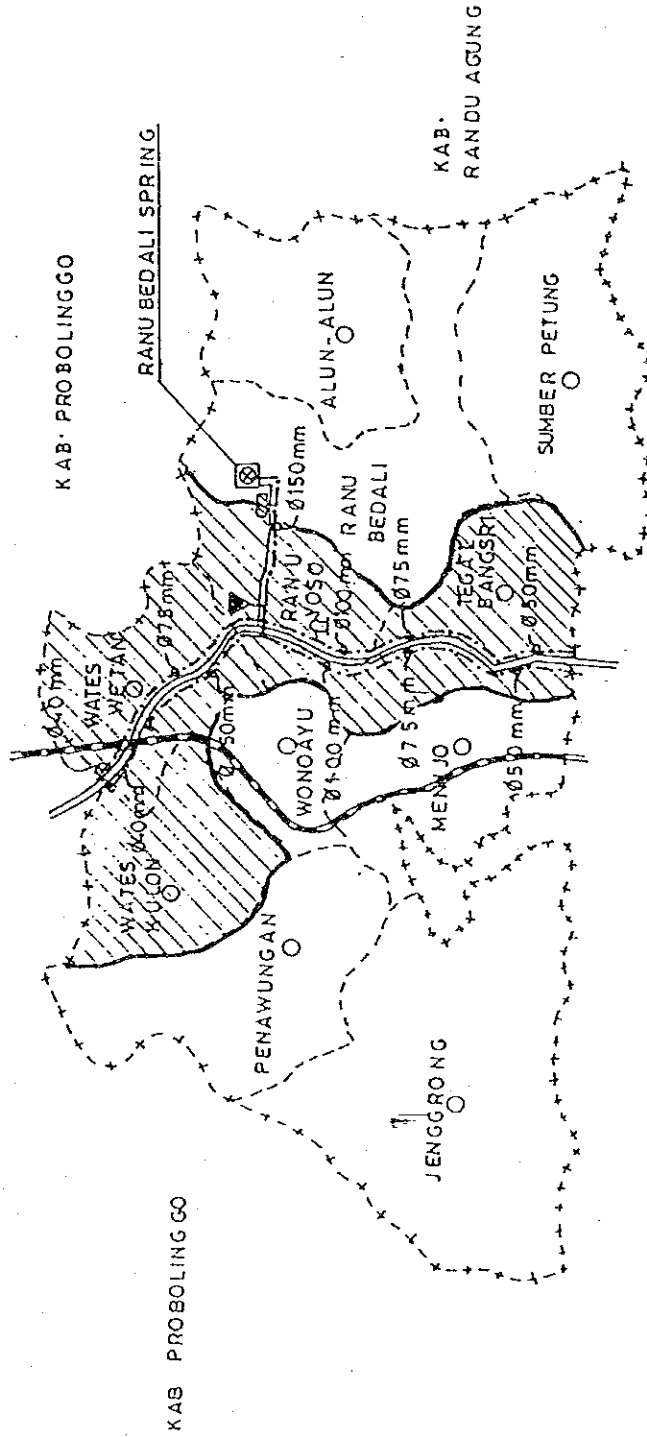
- == MAIN ROAD
- DESA ROAD
- RAILWAY
- +--+ KAB BOUNDARY
- +++++ KEC BOUNDARY
- - - - DESA BOUNDARY
- ↑ KEC OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED SPRING
- ▩ RESERVOIR
- ▽ ELEVATED TANK
- - - - TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE



SCALE 1 : 100.000

E - 33

**RANUYOSO**

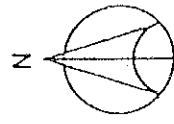


KAB. PROBOLINGGO

B - b

**LEGEND**

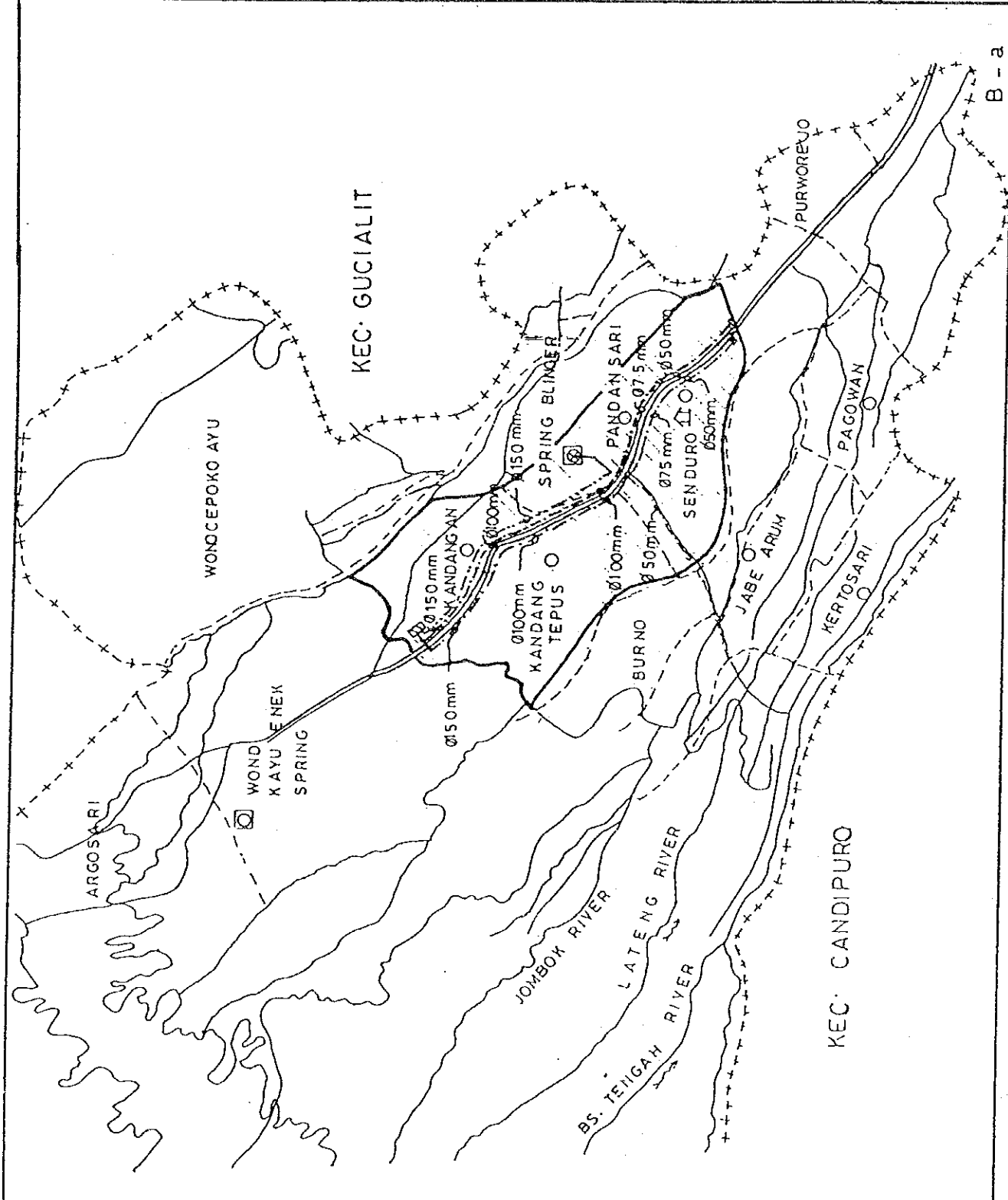
- == MAIN ROAD
- DESA ROAD
- +--+ KAB BOUNDARY
- +++++ KEC BOUNDARY
- - - - DESA BOUNDARY
- ~ RIVER
- ⌄ KEC OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊠ PROPOSED SPRING
- ▩ RESERVOIR
- TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE : 1 : 75.000

E-34

**SENDURO**





**LEGEND**

- ▬ MAIN ROAD
- ▬ DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- ~ RIVER
- DESA OFFICE
- ↑ KECAMATAN OFFICE
- ⊗ PROPOSED SPRING
- ▨ IKK AREA
- ☐ RESERVOIR
- ▲ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE

SCALE 1:50.000

E-35

TEMPURSARI

KEC. PRONOJIWO

KALIULING

SIDOMUKTI SPRING

Ø50mm

Ø150mm

Ø75mm

PUNDUNG SARI

KEC. TEMPURSARI

Ø75mm

Ø100mm

Ø75mm

Ø50mm

TEMPUREJO

Ø75mm

Ø50mm

PUROREJO

BULUREJO

RAWAN RIVER

TEGAL REJO

RAWAN RIVER

B-b

**LEGEND**

- ≡ MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- ≡ RAILWAY
- ≡ RIVER
- DESA OFFICE
- ⊕ KEC. OFFICE
- ▨ IKK AREA
- ⊙ PROPOSED WELL
- ⊞ RESERVOIR
- ▽ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - PIPE LINE DISTRIBUTION

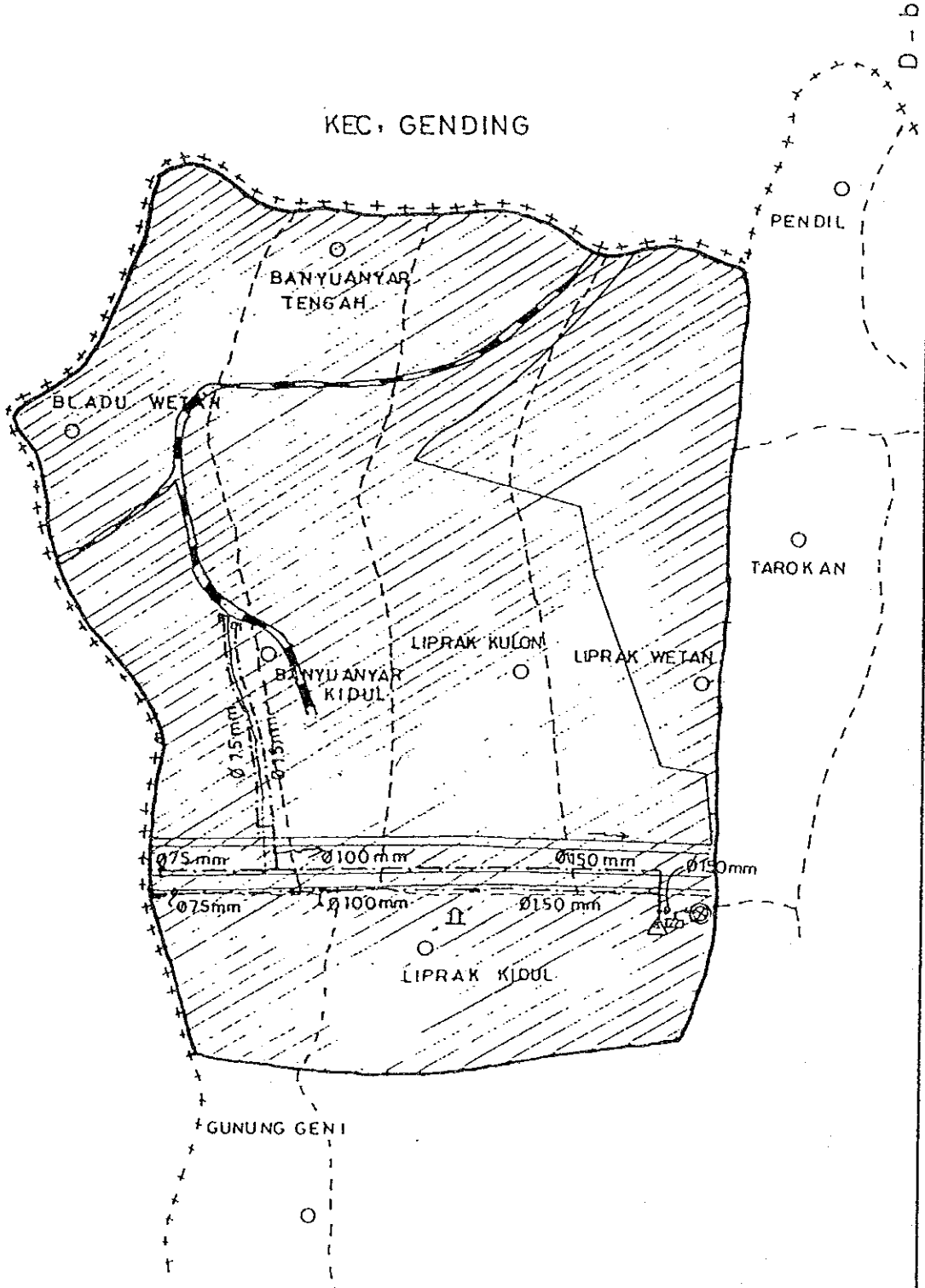


SCALE 1 : 30.000

E-36

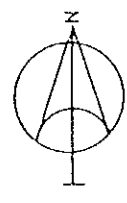
BANYUANYAR

**KEC. GENDING**



**LEGEND**

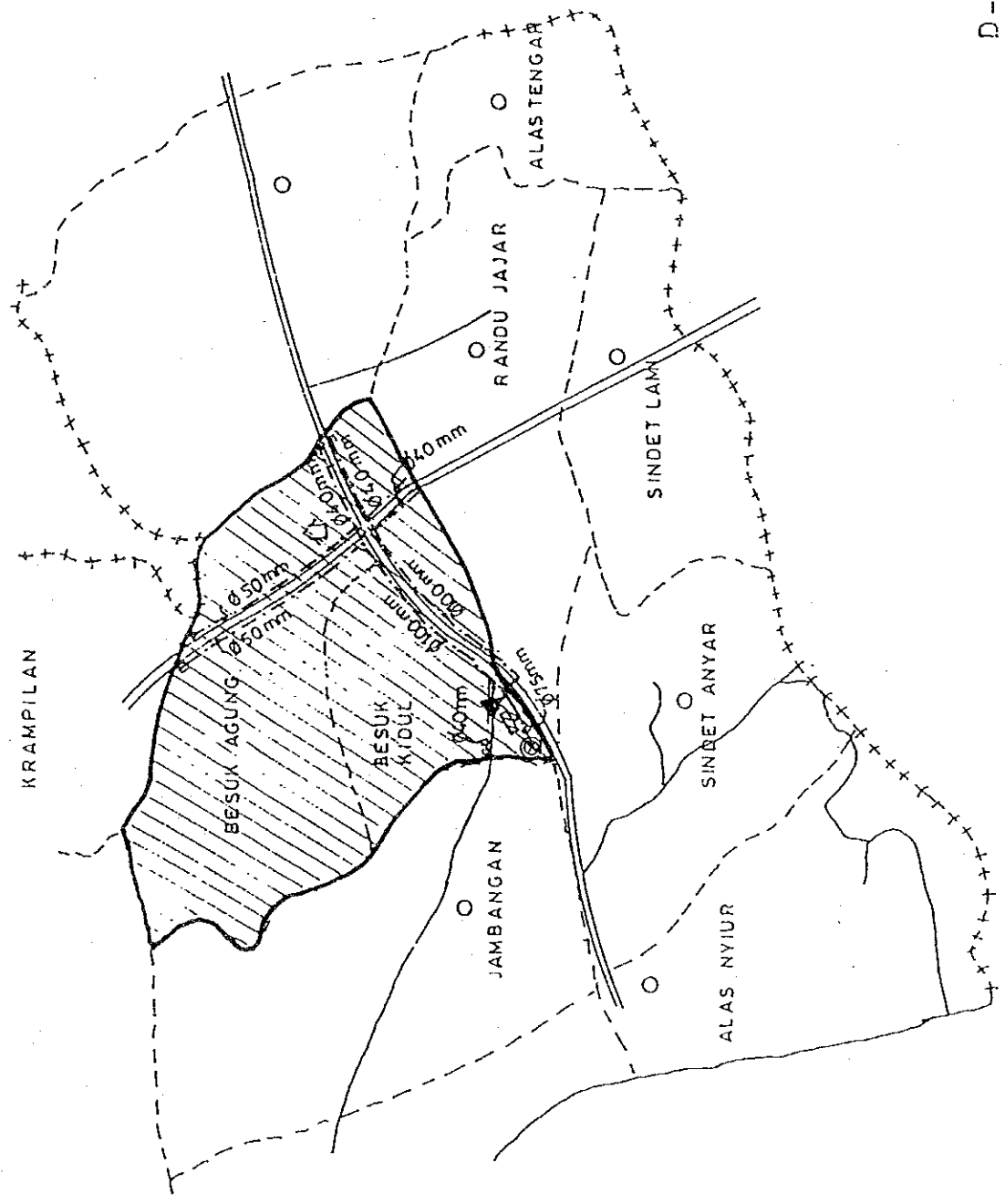
- == MAIN ROAD
- DESA ROAD
- ++++ KEC BOUNDARY
- - - - DESA BOUNDARY
- ⌄ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = PROPOSED WELL
- ⊞ = RESERVOIR
- ▽ = ELEVATED TANK
- - - - = TRANSMISSION PIPE LINE
- · - · - = DISTRIBUTION PIPE LINE



SCALE = 1 : 40.000

E-37

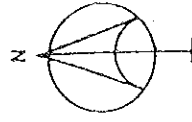
BESUK



D - b

**LEGEND**

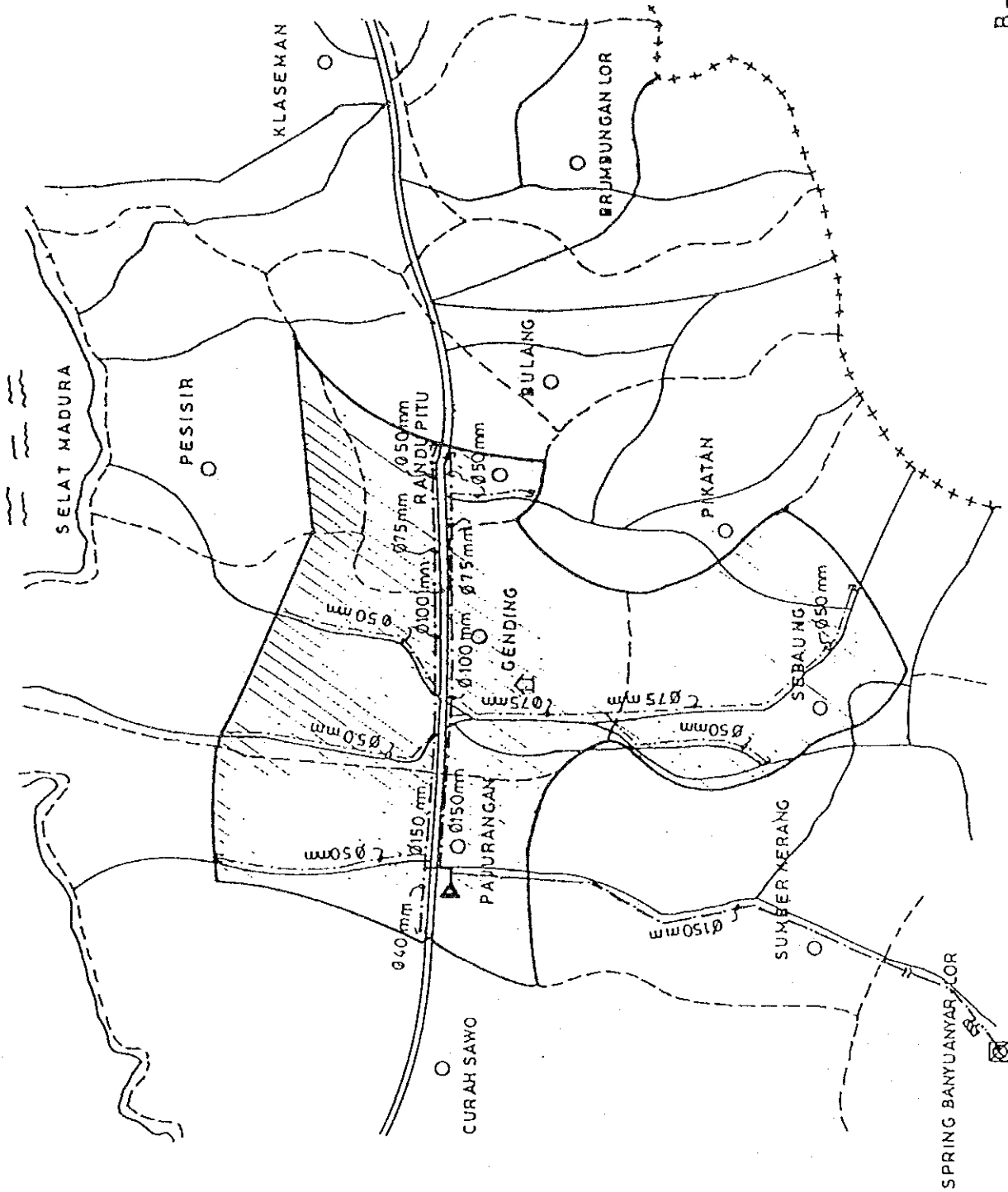
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- + + + + + KEC. BOUNDARY
- ↑ KEC OFFICE
- DESA OFFICE
- ▨ IKK. AREA
- ⊠ PROPOSED WELL
- ▤ RESERVOIR
- ▽ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE : 1 : 70.000

E-38

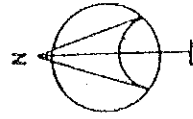
GENDING



B - b

**LEGEND**

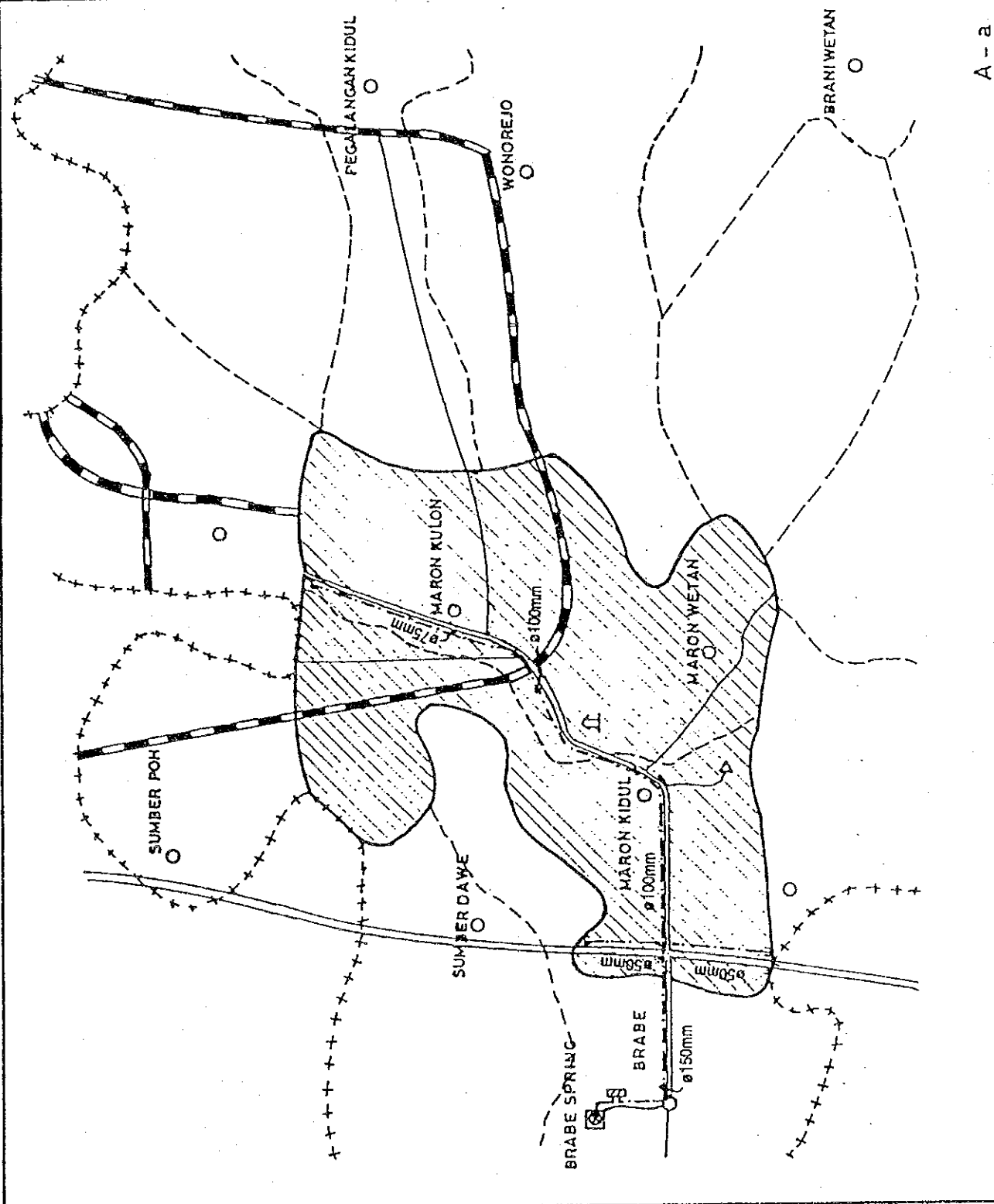
- == MAIN ROAD
- DESA ROAD
- RAIL WAY
- - - DESA BOUNDARY
- - - - - KEC. BOUNDARY
- DESA OFFICE
- ⌈ KEC. OFFICE
- △ EXISTING DEEPWELL
- ⊠ PROPOSED SPRING
- ▨ IKK AREA
- ▩ RESERVOIR
- - - - - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE = 1 : 80,000

E-39

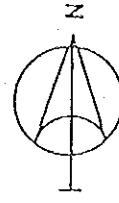
MARON



A-a

**LEGEND**

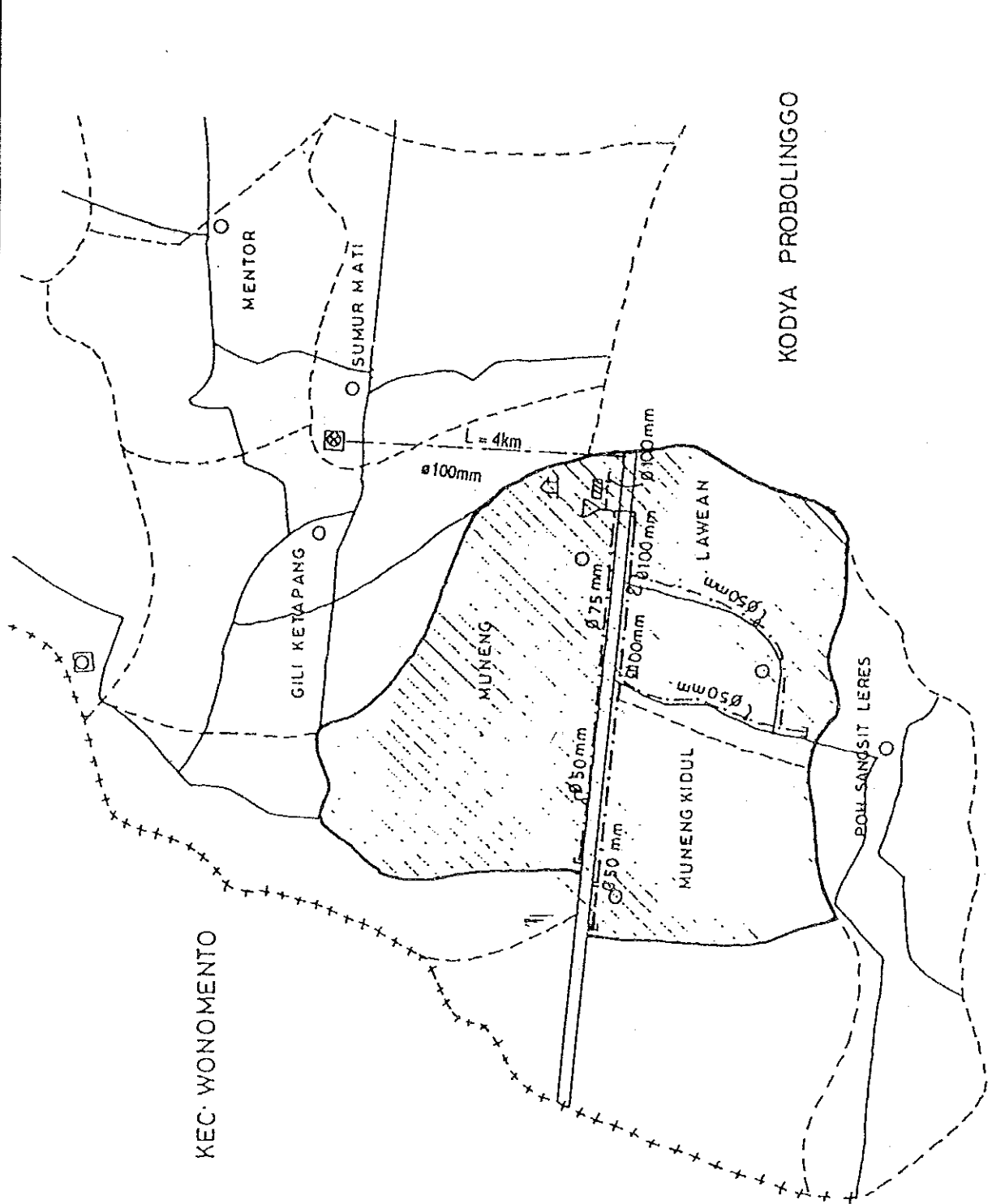
- = MAIN ROAD
- = DESA ROAD
- = RAILWAY
- = KEC. BOUNDARY
- = DESA BOUNDARY
- = KEC OFFICE
- = DESA OFFICE
- = SPRING
- = IKK AREA
- = PROPOSED SPRING
- = RESERVOIR
- = ELEVATED TANK
- = TRANSMISSION PIPE LINE
- = DISTRIBUTION PIPE LINE



SCALE 1 : 10.000

E-40

**SUMBERASIH**



B - b

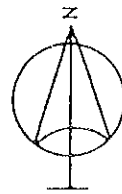
**Fig. C.3 System Plans for IKKs in Bali**





**LEGEND**

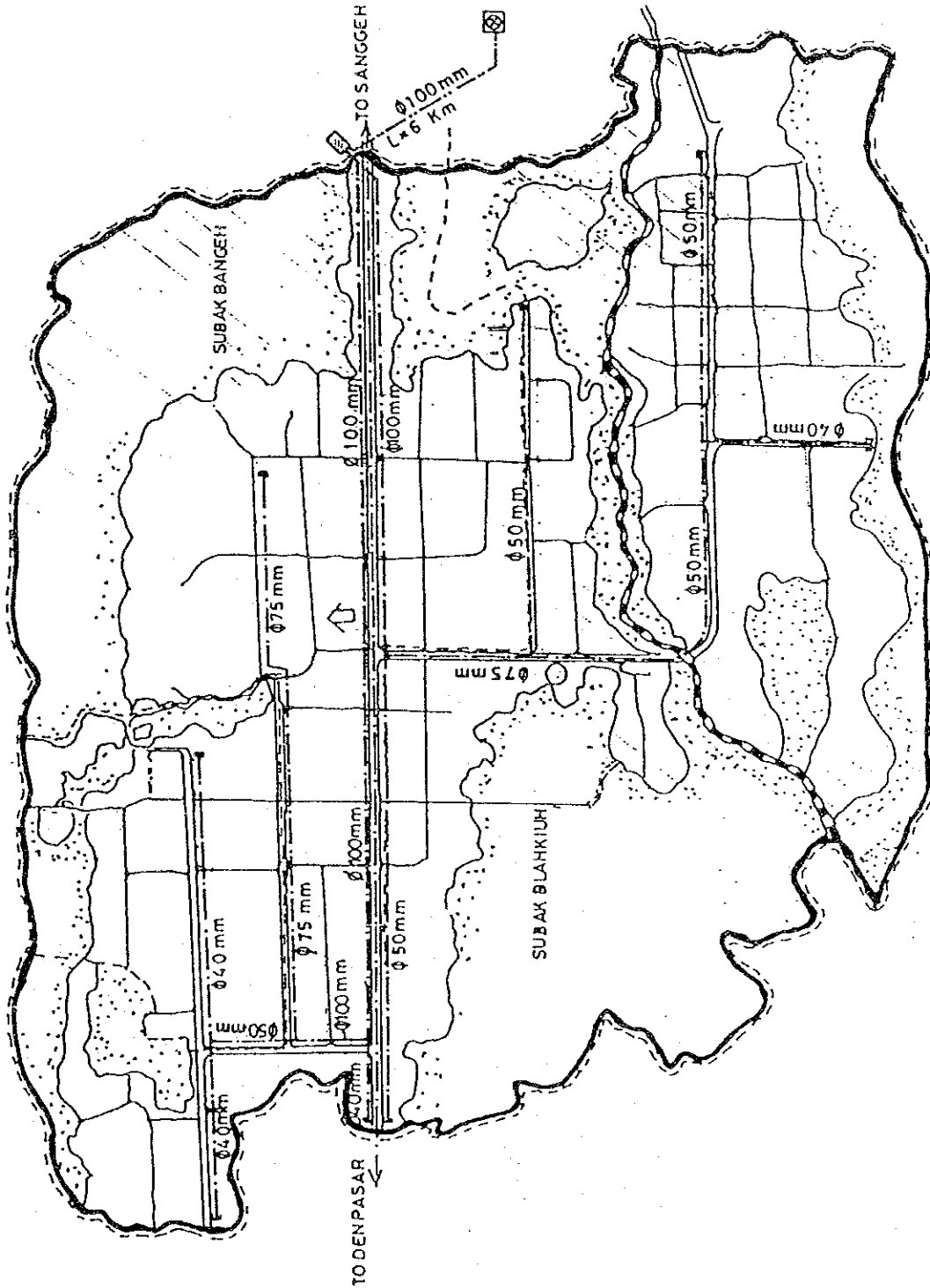
- == MAIN ROAD
- == DESA ROAD
- == RAILWAY
- - - DESA BOUNDARY
- ↑ = KECAMATAN OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = PROPOSED SPRING
- ⊞ = RESERVOIR
- - - = TRANSMISSION PIPE LINE
- - - = DISTRIBUTION PIPE LINE



SCALE 1 : 20.000

B-41

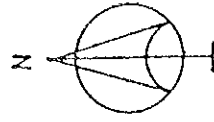
**BLAH KIUH**



A-a

**LEGEND**

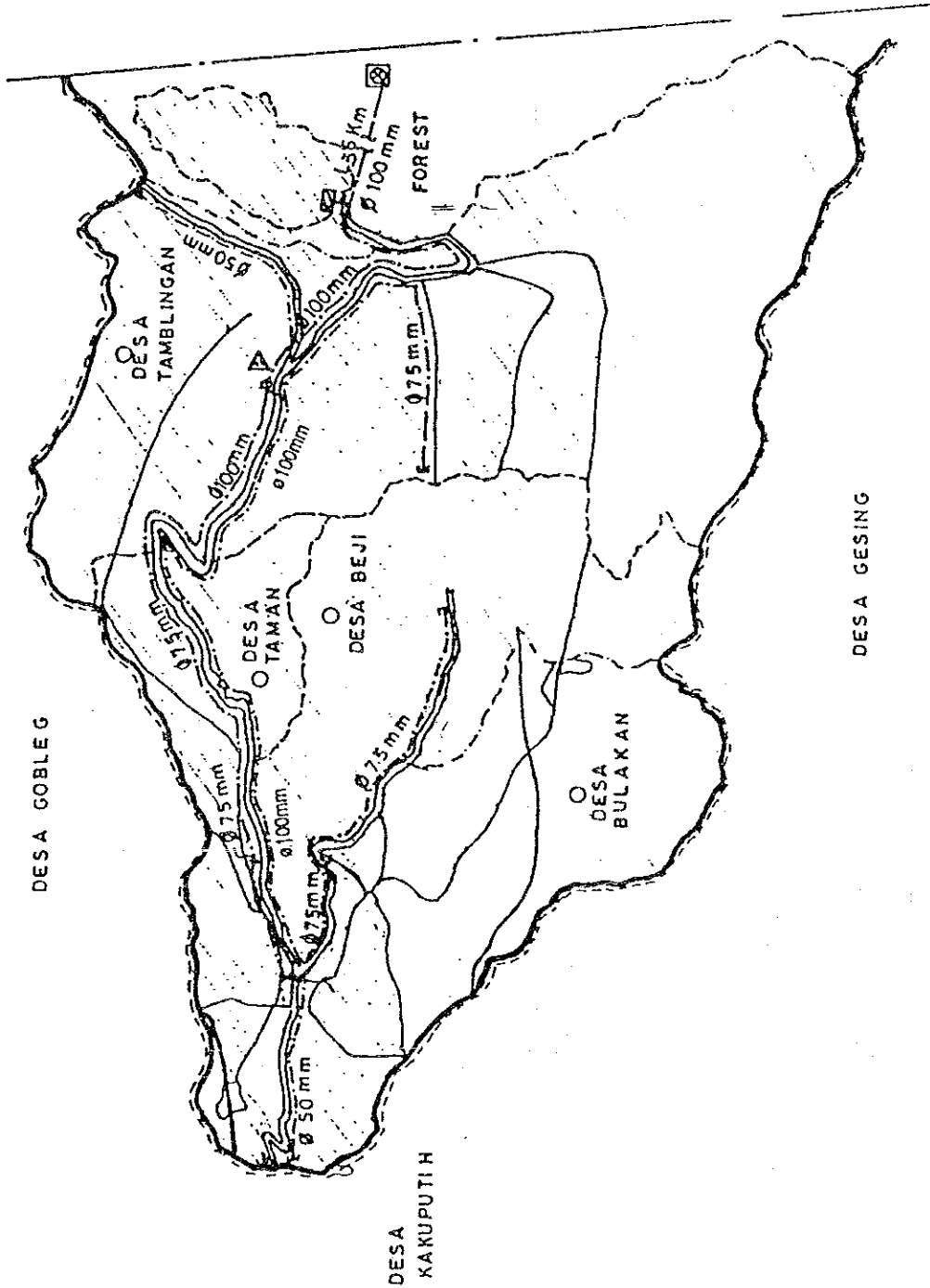
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- DESA OFFICE
- ▨ IKK AREA
- ⊠ PROPOSED SPRING
- ▩ RESERVOIR
- ▲ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 35.000

B-42

MUNDUK



B - b

**LEGEND**

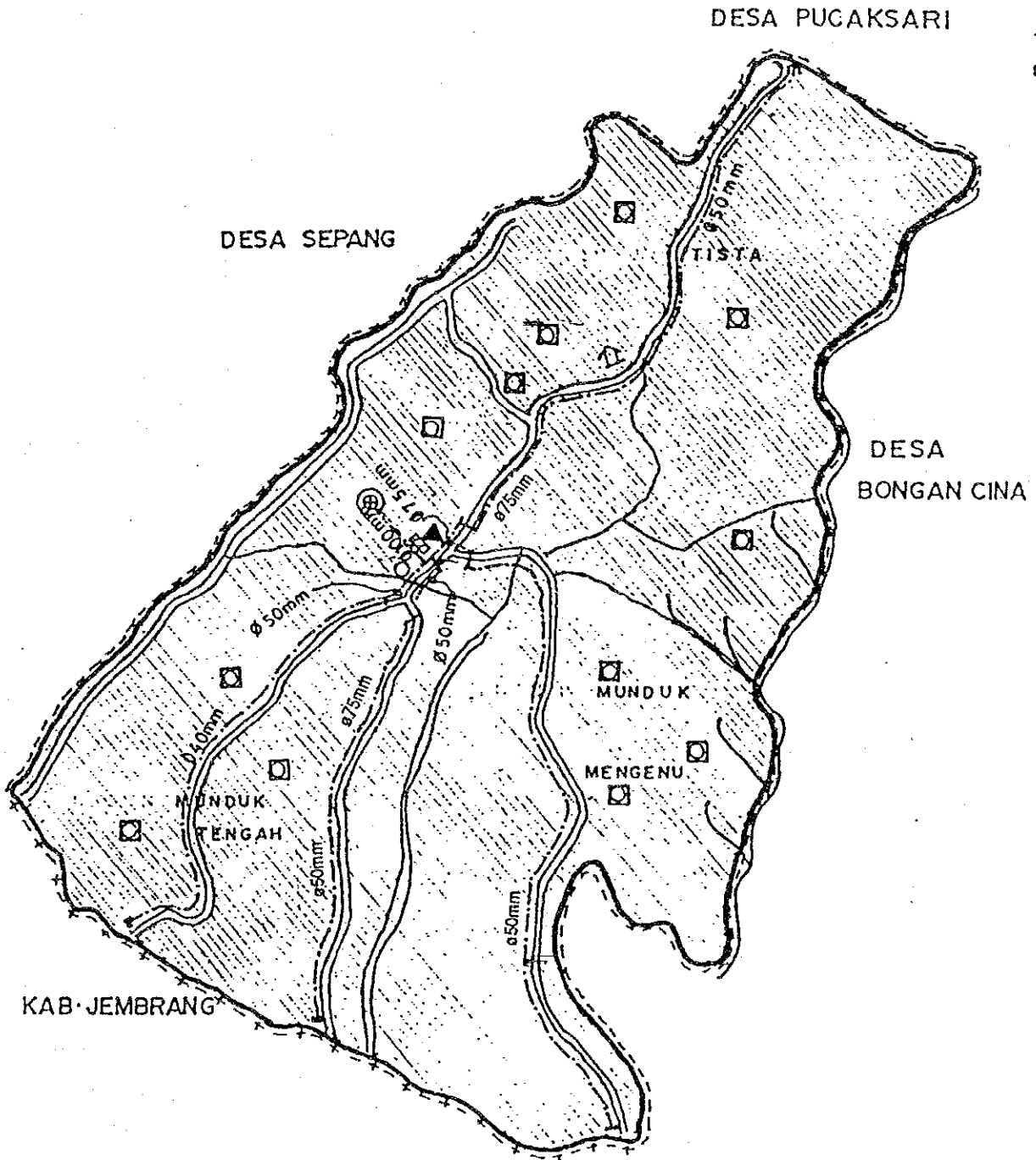
- == MAIN ROAD
- DESA ROAD
- + - K.AB. BOUNDARY
- - - DESA BOUNDARY
- ↑ KEC. OFFICE
- DESA OFFICE
- ◻ SPRING
- ▨ IKK AREA
- ⊗ PROPOSED WELL
- ▤ RESERVOIR
- ▲ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 25.000

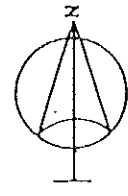
B-43

TISTA



**LEGEND**

- = MAIN ROAD
- = DESA ROAD
- = DESA BOUNDARY
- = RIVER
- = KECAMATAN OFFICE
- = DESA OFFICE
- = IKK AREA
- = TAPPING POINT
- = RESERVOIR
- = EXISTING PIPE LINE
- = DISTRIBUTION PIPE LINE

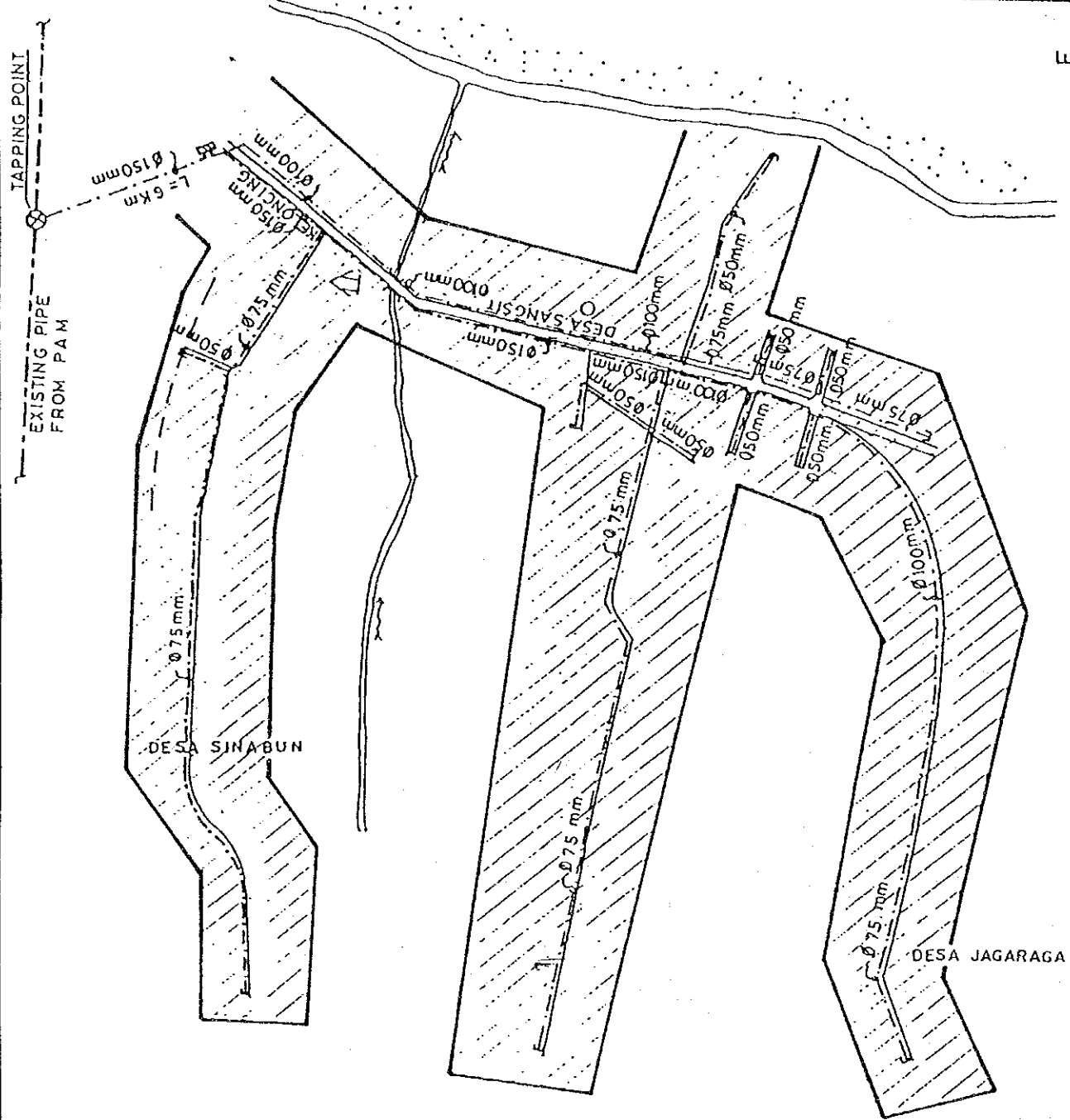


SCALE 1 : 25 000

B-44

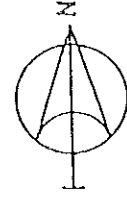
**SANGSIT**

F



**LEGEND**

- == MAIN ROAD
- - - PATH ROAD
- - - DESA BOUNDARY
- ~ RIVER
- ↑ = KEC. OFFICE
- = DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED SPRING
- ▩ RESERVOIR
- - - DISTRIBUTION PIPE LINE
- - - TRANSMISSION PIPE LINE

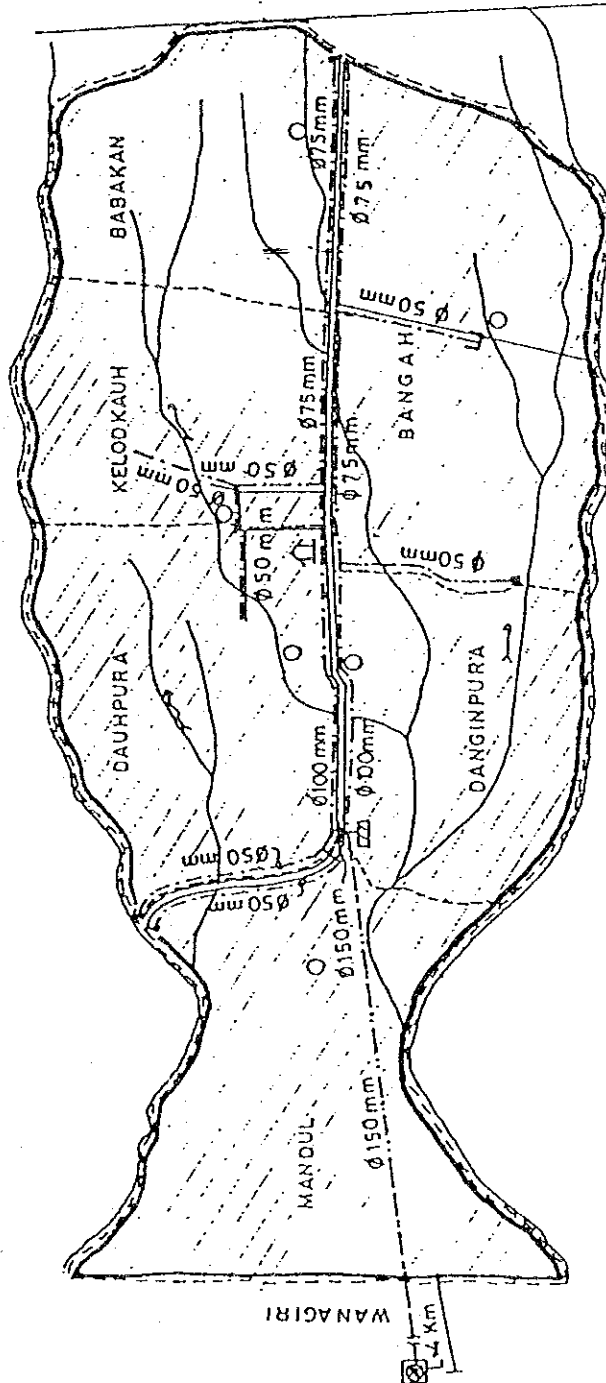


SCALE 1 : 50.000

B-45

PANJI

PANJIANOM



BHAKTI SERAGA

SAMBANGAN

WANAGIRI

**LEGEND**

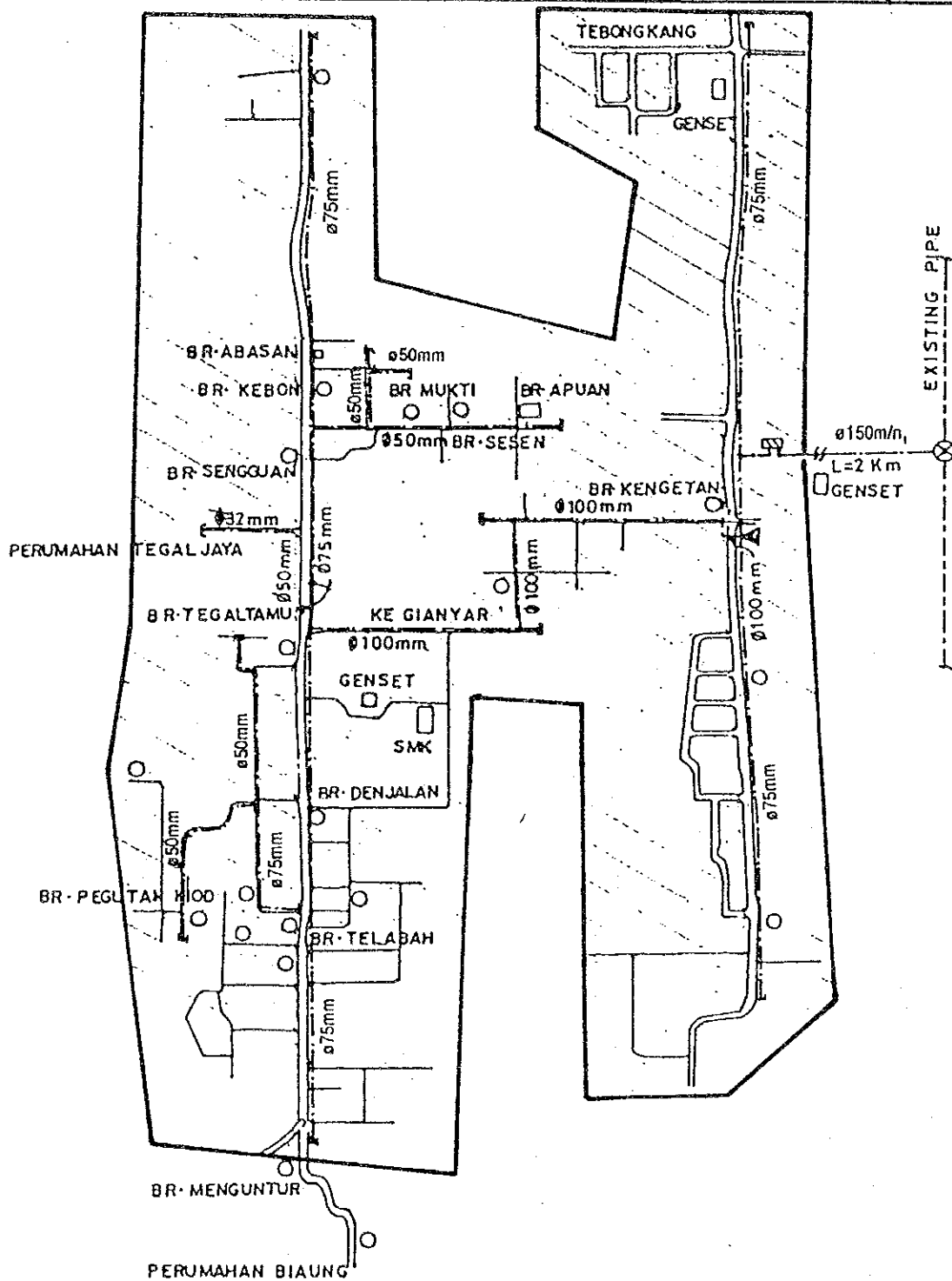
- == MAIN ROAD
- DESA ROAD
- DESA OFFICE
- ▨ IKK AREA
- ⊗ TAPPING POINT
- RESERVOIR
- ▽ ELEVATED TANK
- - - EXISTING PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 13.000

B-46

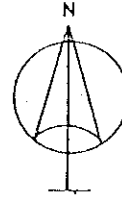
SINGAKERTA



F.

**LEGEND**

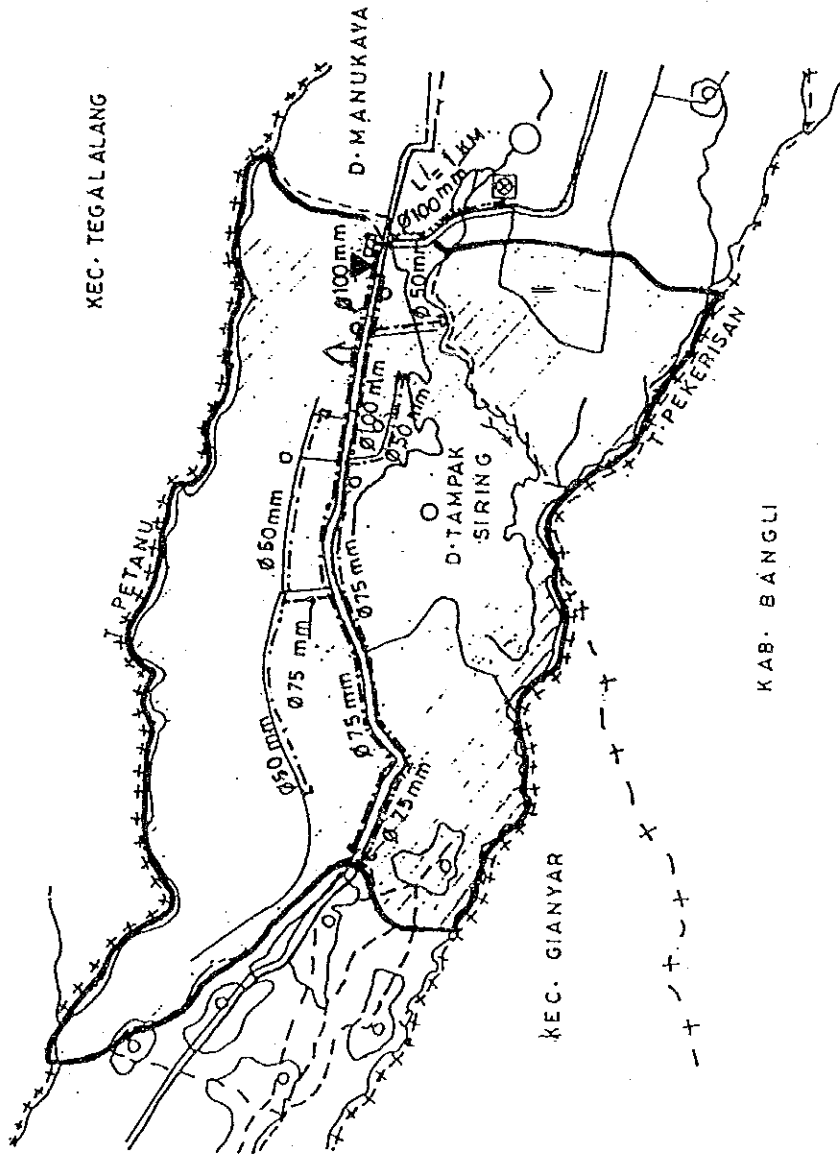
- == MAIN ROAD
- DESA ROAD
- +--+ KAB BOUNDARY
- +++++ KEC BOUNDARY
- DESA BOUNDARY
- ~ RIVER
- ↑ KEC OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊠ PROPOSED SPRING
- ⊞ RESERVOIR
- ▽ ELEVATED TANK
- .-.- TRANSMISSION PIPE LINE
- .-.- DISTRIBUTION PIPE LINE



SCALE 1 : 17.000

B-47

**TAMPAK SIRING**



B - b

**LEGEND**

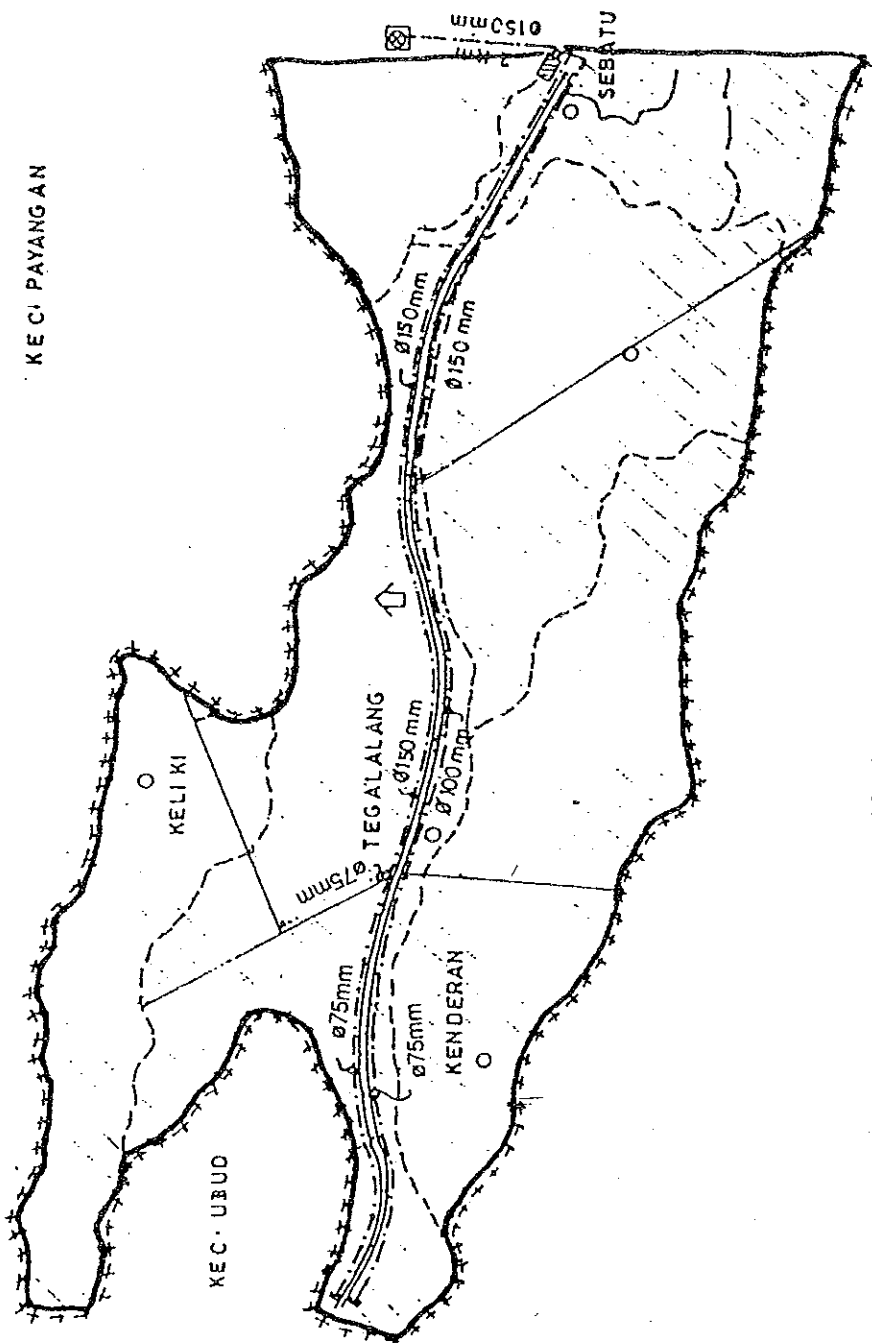
- ==== = MAIN ROAD
- = DESA ROAD
- ++++ = KEC. BOUNDARY
- = DESA BOUNDARY
- = DESA OFFICE
- ↑ = KEC. OFFICE
- ▨ = IXX AREA
- ☒ = PROPOSED SPRING
- ☐ = RESERVOIR
- = TRANSMISSION PIPE LINE
- = DISTRIBUTION PIPE LINE



SCALE 1 : 70.000

B-48









TEGALALANG

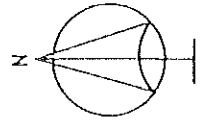


A - a



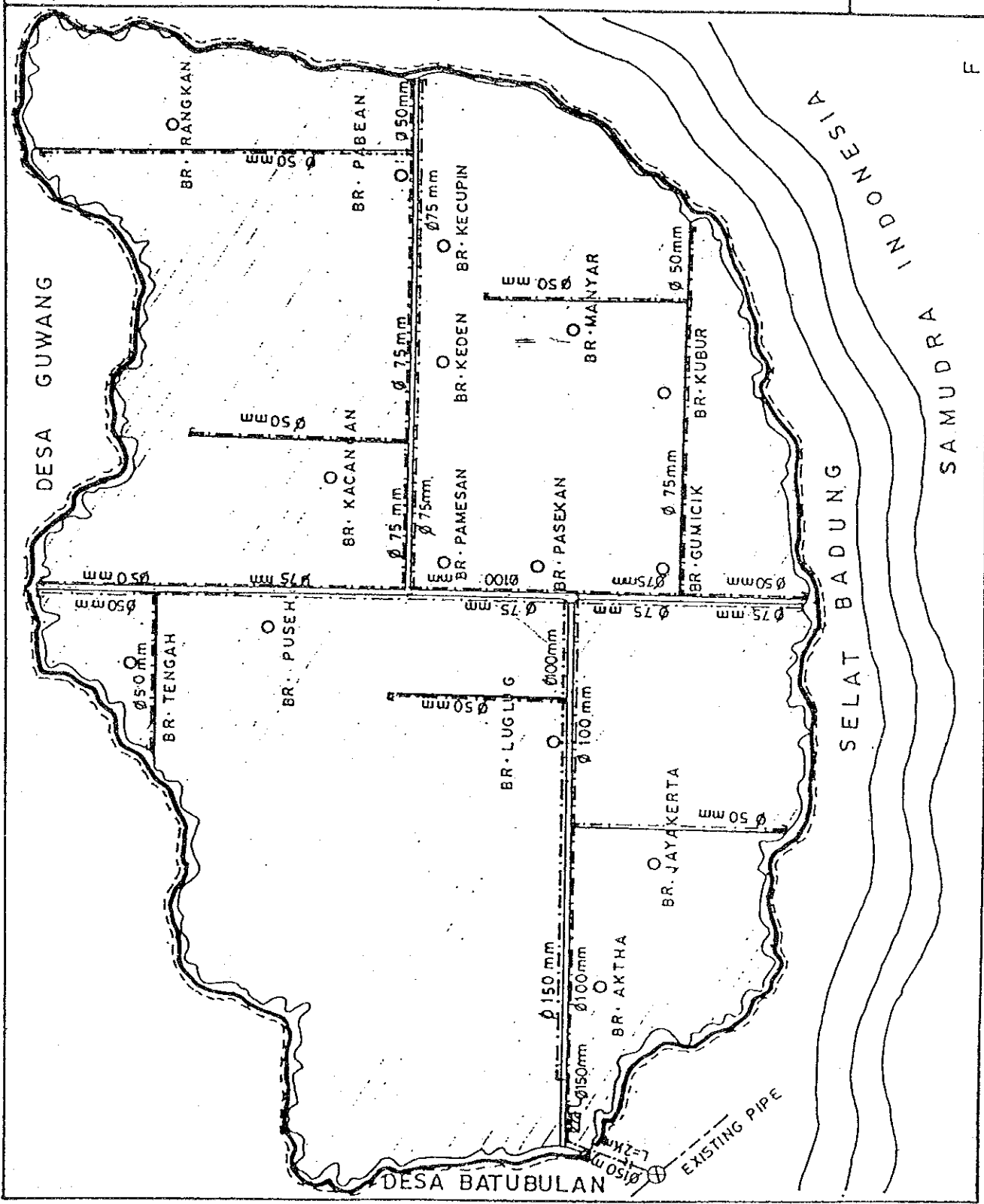
**LEGEND**

-  = MAIN ROAD
-  = DESA OFFICE
-  = DESA OFFICE
-  = IKK AREA
-  = TAPPING POINT
-  = RESERVOIR
-  = EXISTING PIPELINE
-  = DISTRIBUTION PIPE LINE



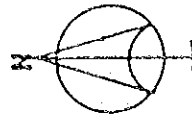
SCALE 1 : 15.000  
B-49

KETEWEL



**LEGEND**

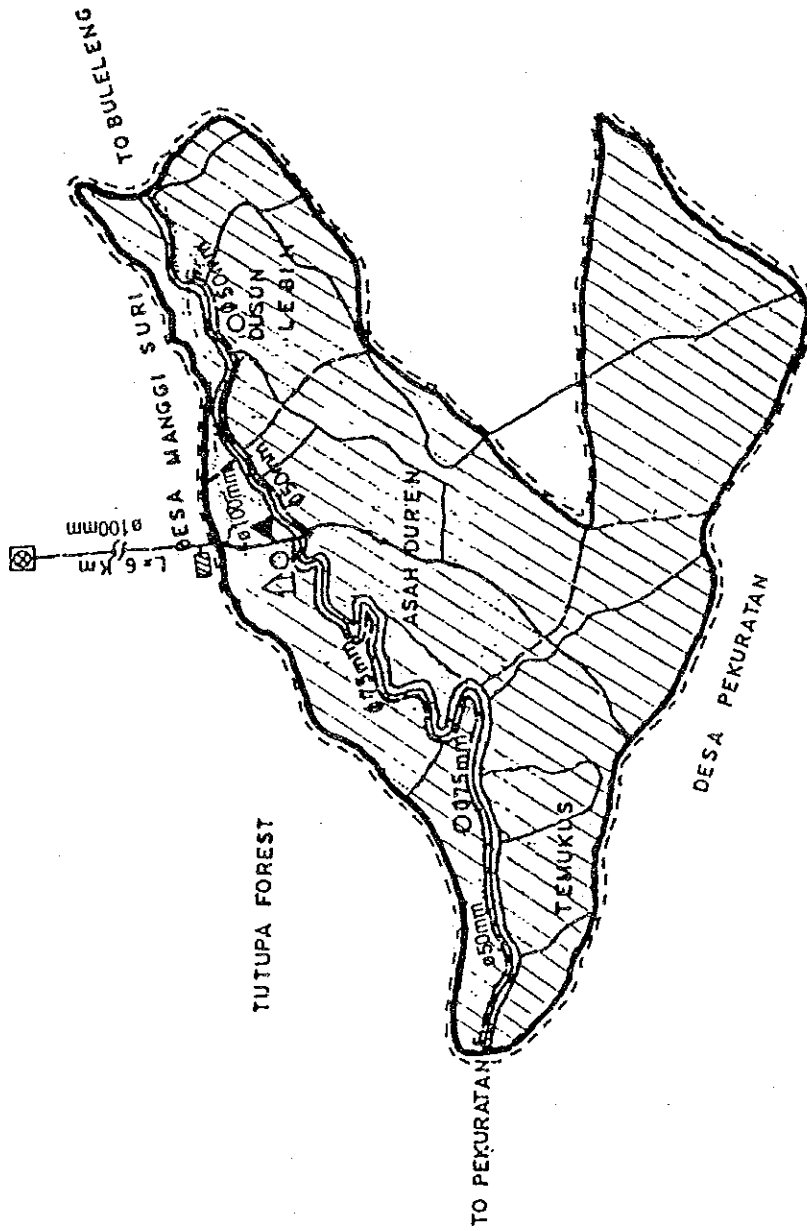
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- △ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ☒ PROPOSED SPRING
- ▩ RESERVOIR
- ▽ ELEVATED TANK
- · - · - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 70000

B-50

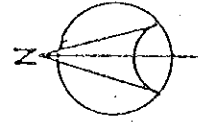
ASAH DUREN



B - b

**LEGEND**

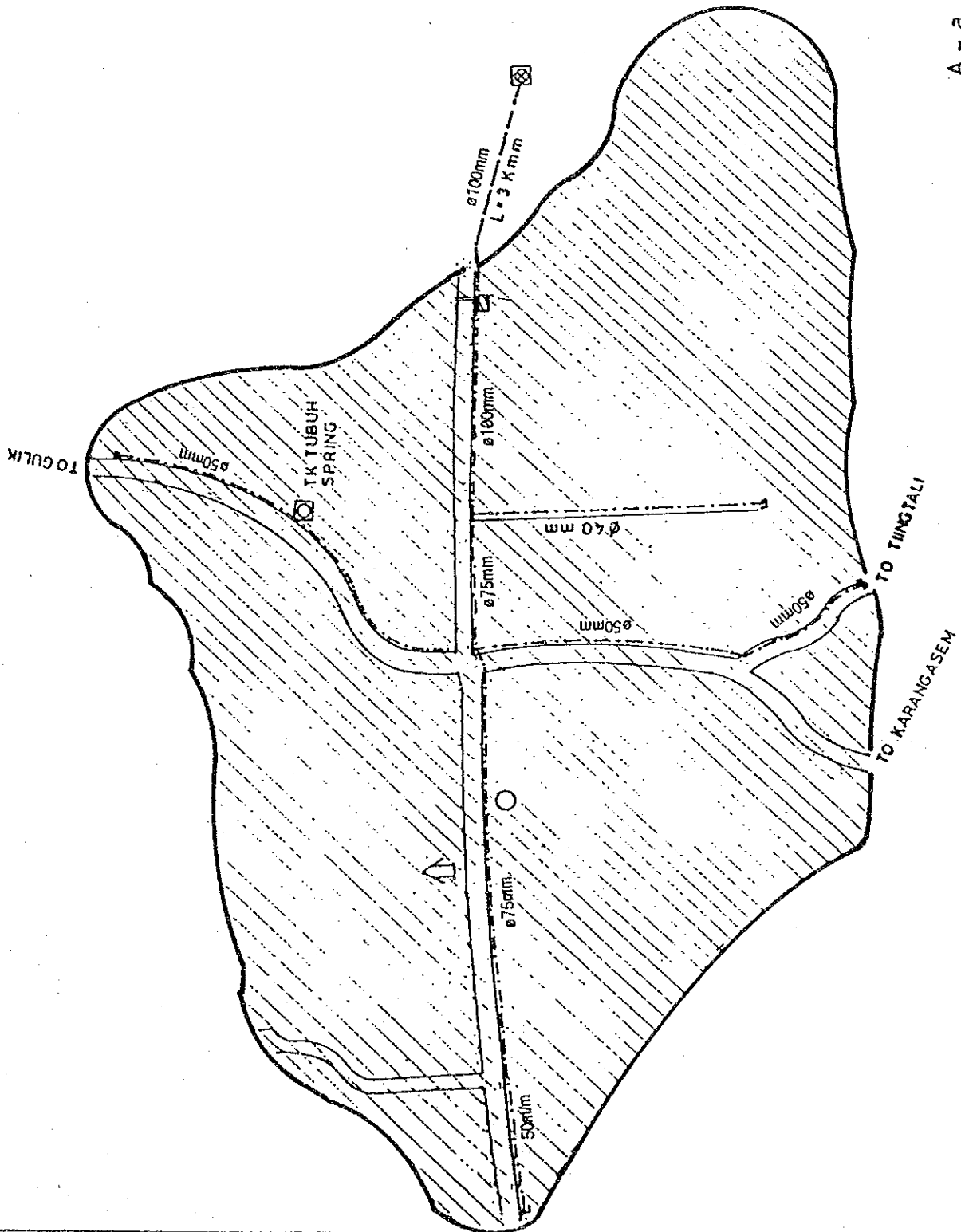
- == MAIN ROAD
- == DESA ROAD
- ↑ KEC. OFFICE
- DESA OFFICE
- ⊙ SPRING
- ▨ IKK AREA
- ⊗ PROPOSED SPRING
- ▩ RESERVOIR
- TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 20.000

B - 51

**ABANG**



A - a

**LEGEND**

- = MAIN ROAD
- = DESA ROAD
- = DESA BOUNDARY
- = RIVER
- = KEC. OFFICE
- = DESA OFFICE
- = IKK AREA
- = PROPOSED SPRING
- = RESERVOIR
- = TRANSMISSION PIPE LINE
- = DISTRIBUTION PIPE LINE

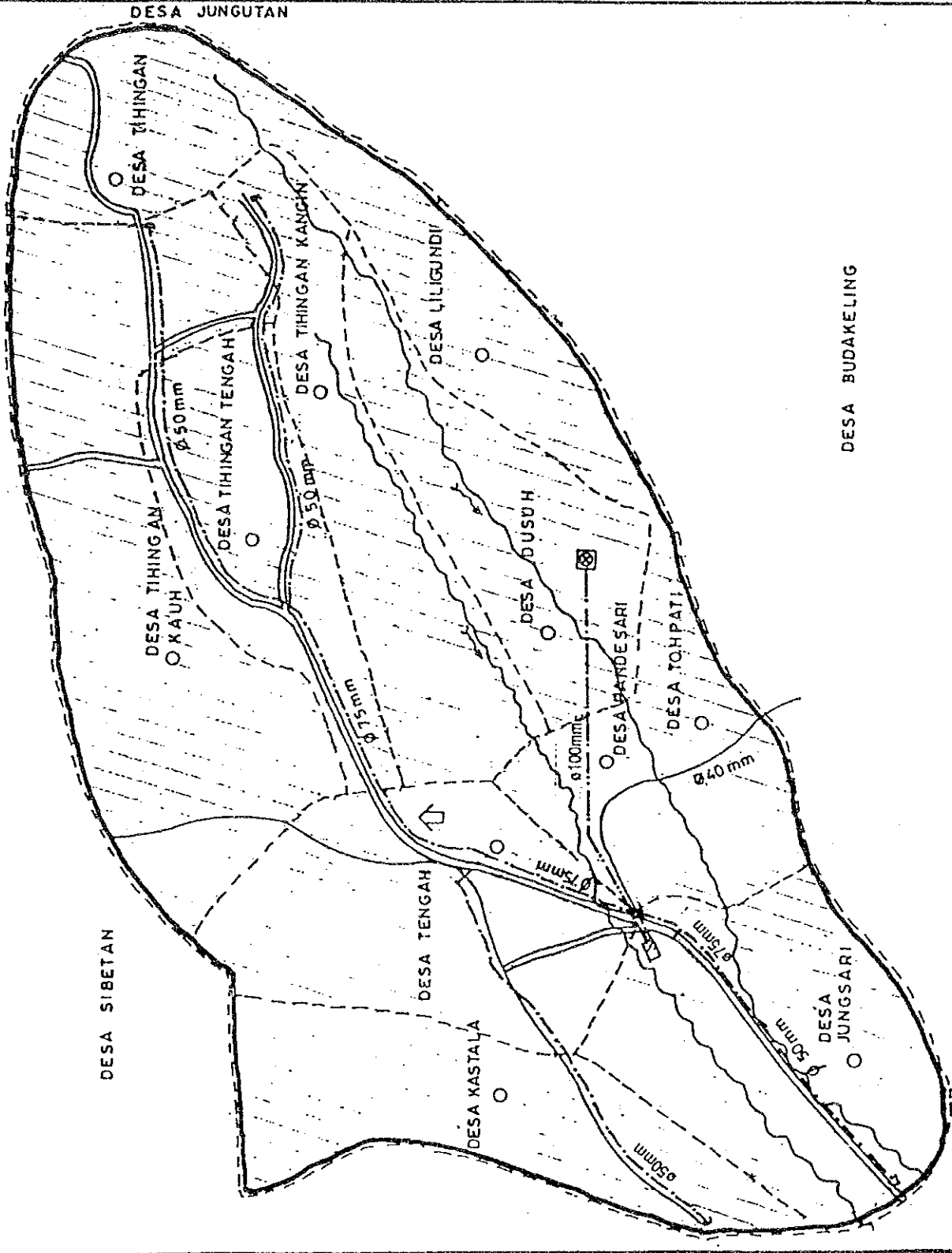


SCALE 1 : 17.500

B-52

BEBANDEM

A-2



DESA BUDAKELING

**LEGEND**

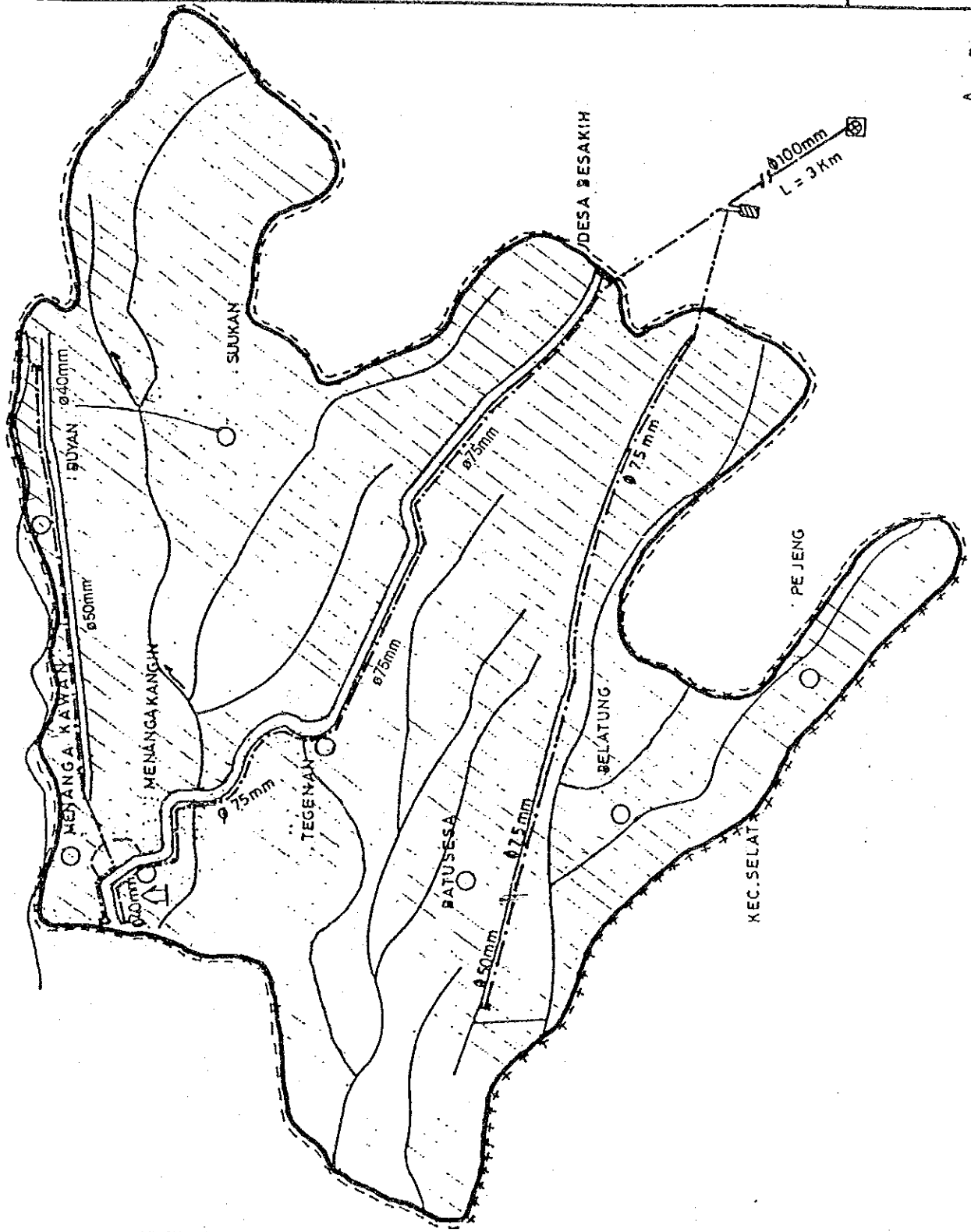
- == MAIN ROAD
- == DESA ROAD
- + + + + KEC. BOUNDARY
- - - - DESA BOUNDARY
- ~ ~ ~ RIVER
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK. AREA
- ⊠ PROPOSED SPRING
- ▤ RESERVOIR
- · - · - TRANSMISSION PIPE LINE
- - - - DISTRIBUTION PIPE LINE



SCALE 1 : 21-000

B-53

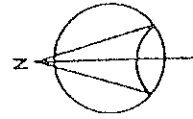
**MENANGA**



A - a

**LEGEND**

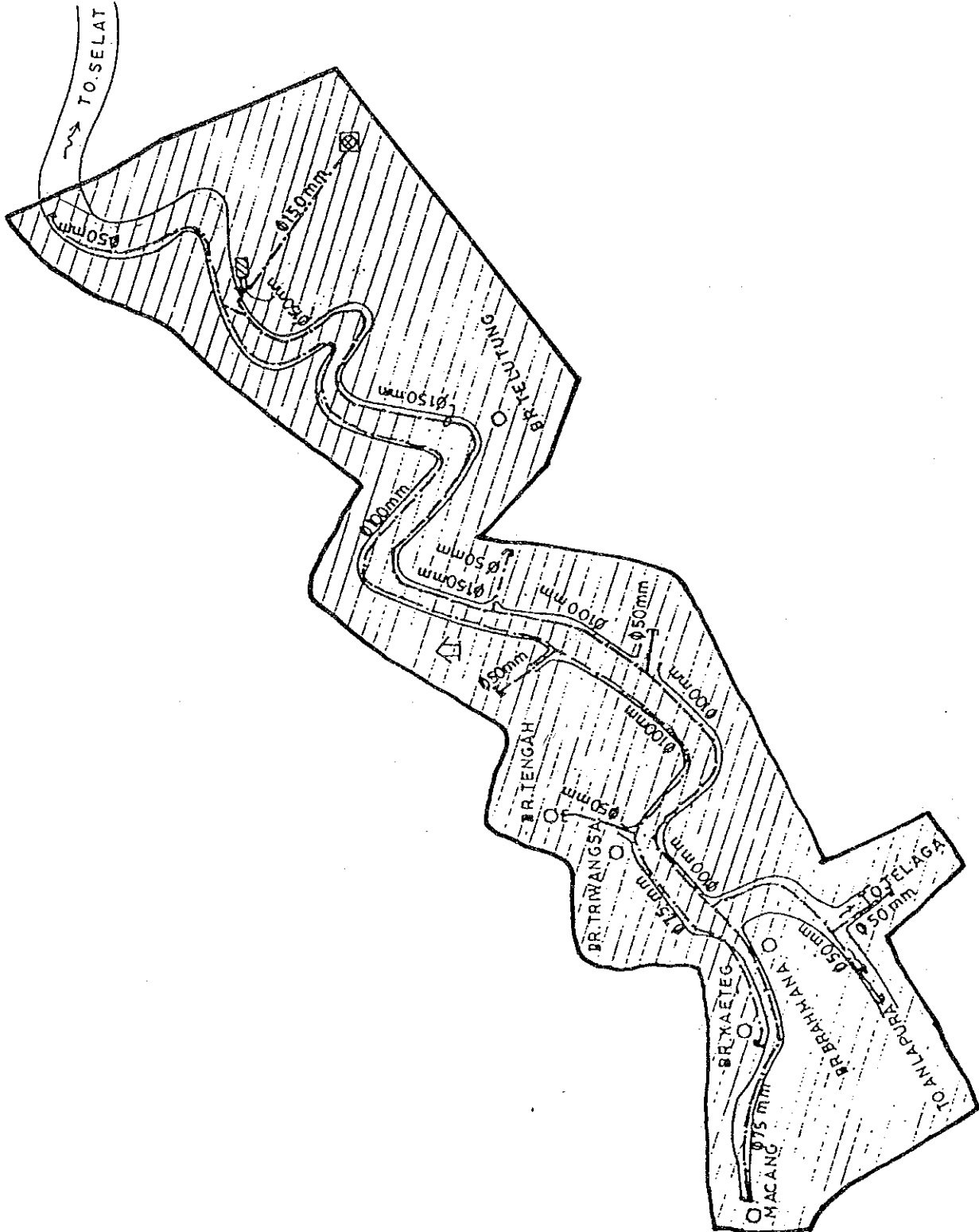
- ▬ MAIN ROAD
- ▬ DESA ROAD
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED SPRING
- ▤ RESERVOIR
- TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 15.000

B-54

SIBETAN



A - a

**LEGEND**

- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ↑ KEC. OFFICE
- DESA OFFICE
- ▨ IKK AREA
- ⊗ PROPOSED SPRING
- ▨ RESERVOIR
- ▽ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE

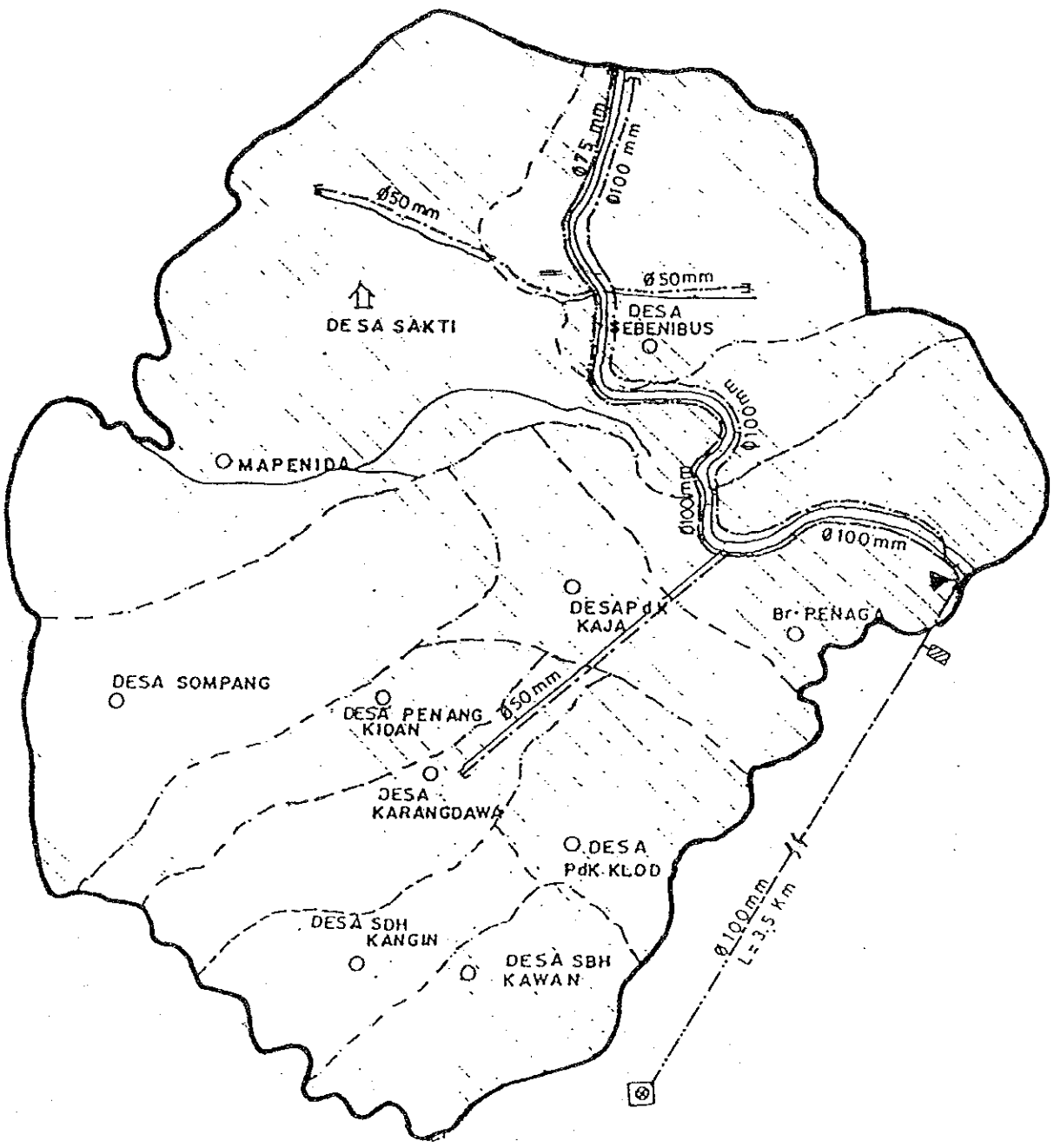


SCALE 1 : 20.000

B-55

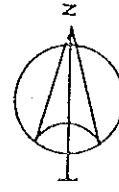
SAKTI

B-b



**LEGEND**

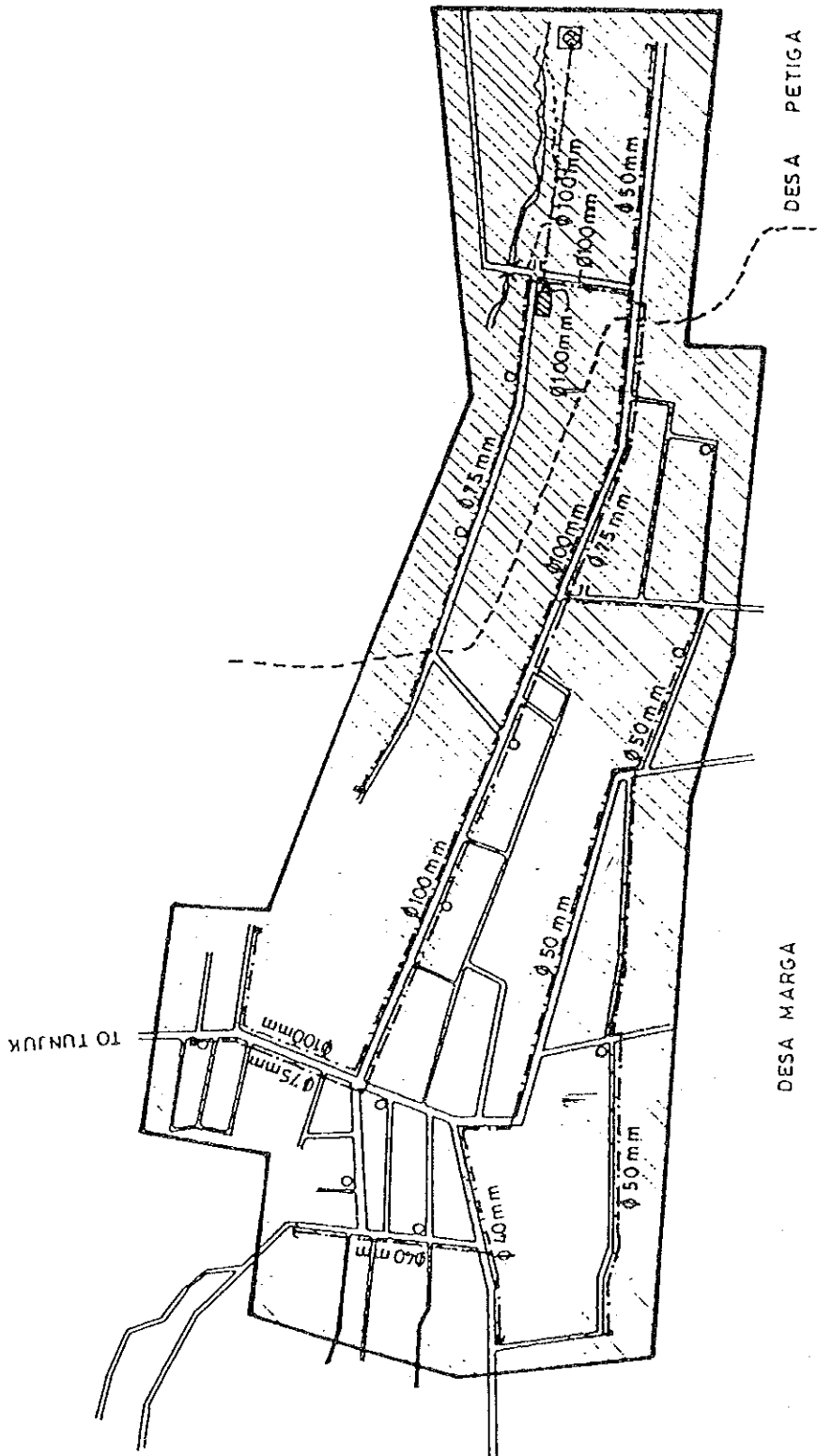
- = MAIN ROAD
- - - = DESA BOUNDARY
- |— = BRIDGE
- ~ ~ ~ = RIVER
- ⌄ = KEC. OFFICE
- = DESA OFFICE
- ▨ = IKK AREA
- ⊗ = PROPOSED SPRING
- ▩ = RESERVOIR
- |— = TRANSMISSION PIPE LINE
- - - = DISTRIBUTION PIPE LINE



SCALE 1 : 15,000

B-56











MARGA



A-a



LEGEND

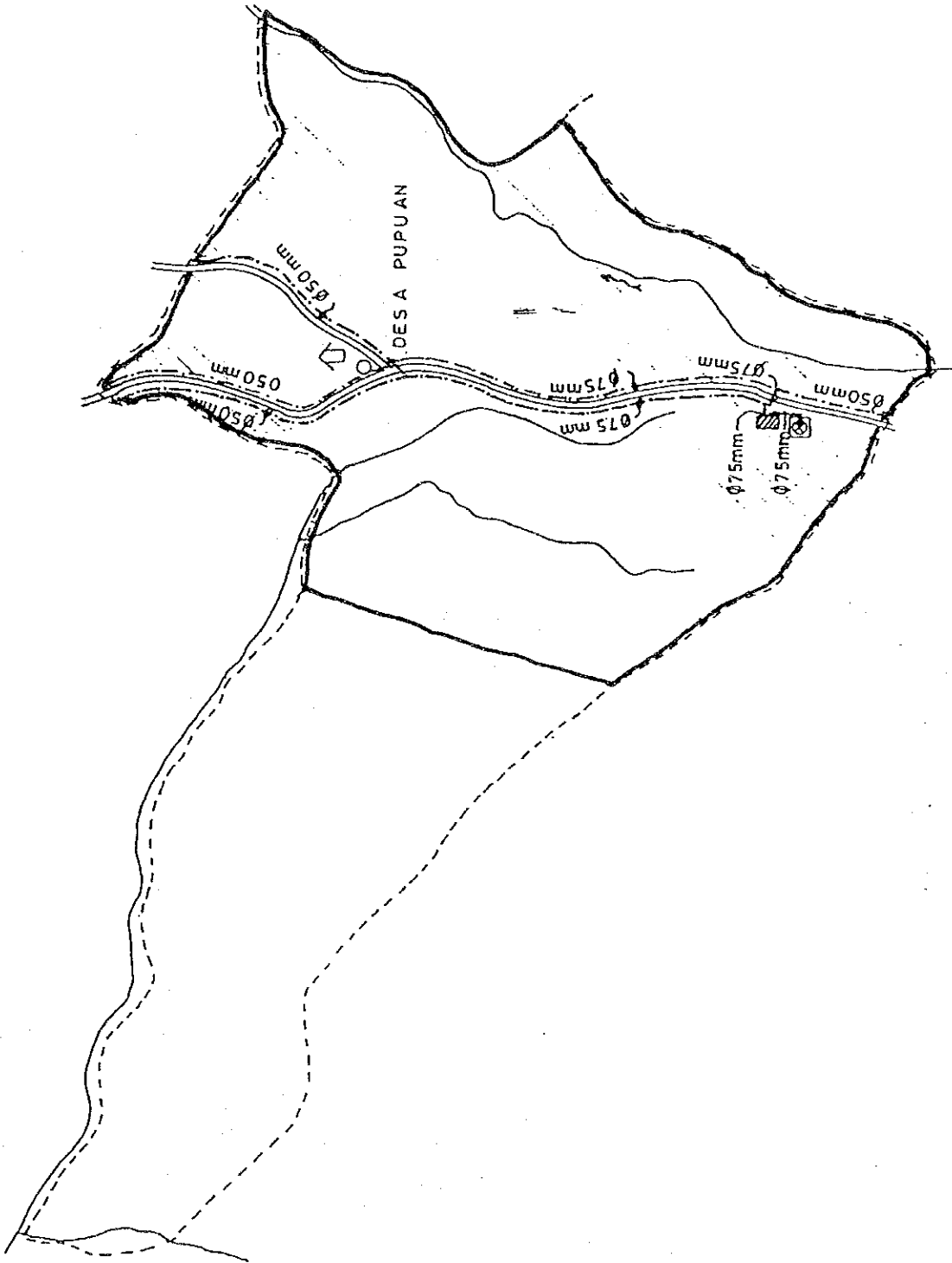
-  = MAIN ROAD
-  = DESA BOUNDARY
-  = RIVER
-  = KEC. OFFICE
-  = DESA OFFICE
-  = IKK AREA
-  = PROPOSED SPRING
-  = RESERVOIR
-  = TRANSMISSION PIPE LINE
-  = DISTRIBUTION PIPE LINE



SCALE 1 : 20.000

B-57

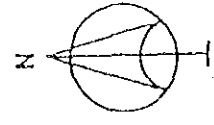
PUPUAN



A - a

**LEGEND**

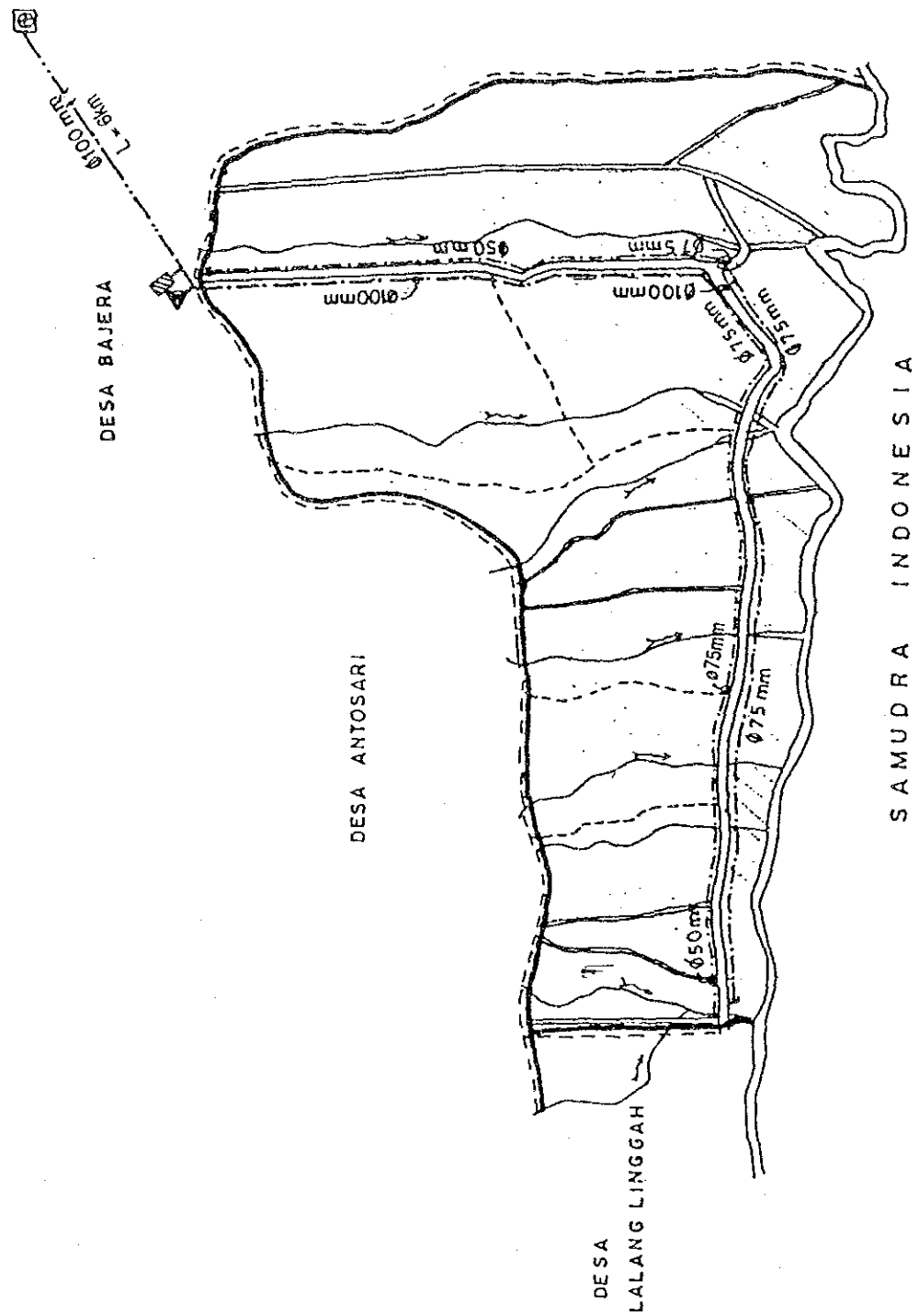
- == MAIN ROAD
- DESA ROAD
- - - DESA BOUNDARY
- ~ RIVER
- ▨ IKK AREA
- ☒ PROPOSED SPRING
- ZZZ RESERVOIR
- ▲ ELEVATED TANK
- - - TRANSMISSION PIPE LINE
- - - DISTRIBUTION PIPE LINE



SCALE 1 : 19.000

B-58

ANTAP



B - b

**LEGEND**

- = MAIN ROAD
- = DESA ROAD
- = KEC. OFFICE
- = DESA OFFICE
- = IKK AREA
- = PROPOSED SPRING
- = RESERVOIR
- = DISTRIBUTION PIPE LINE

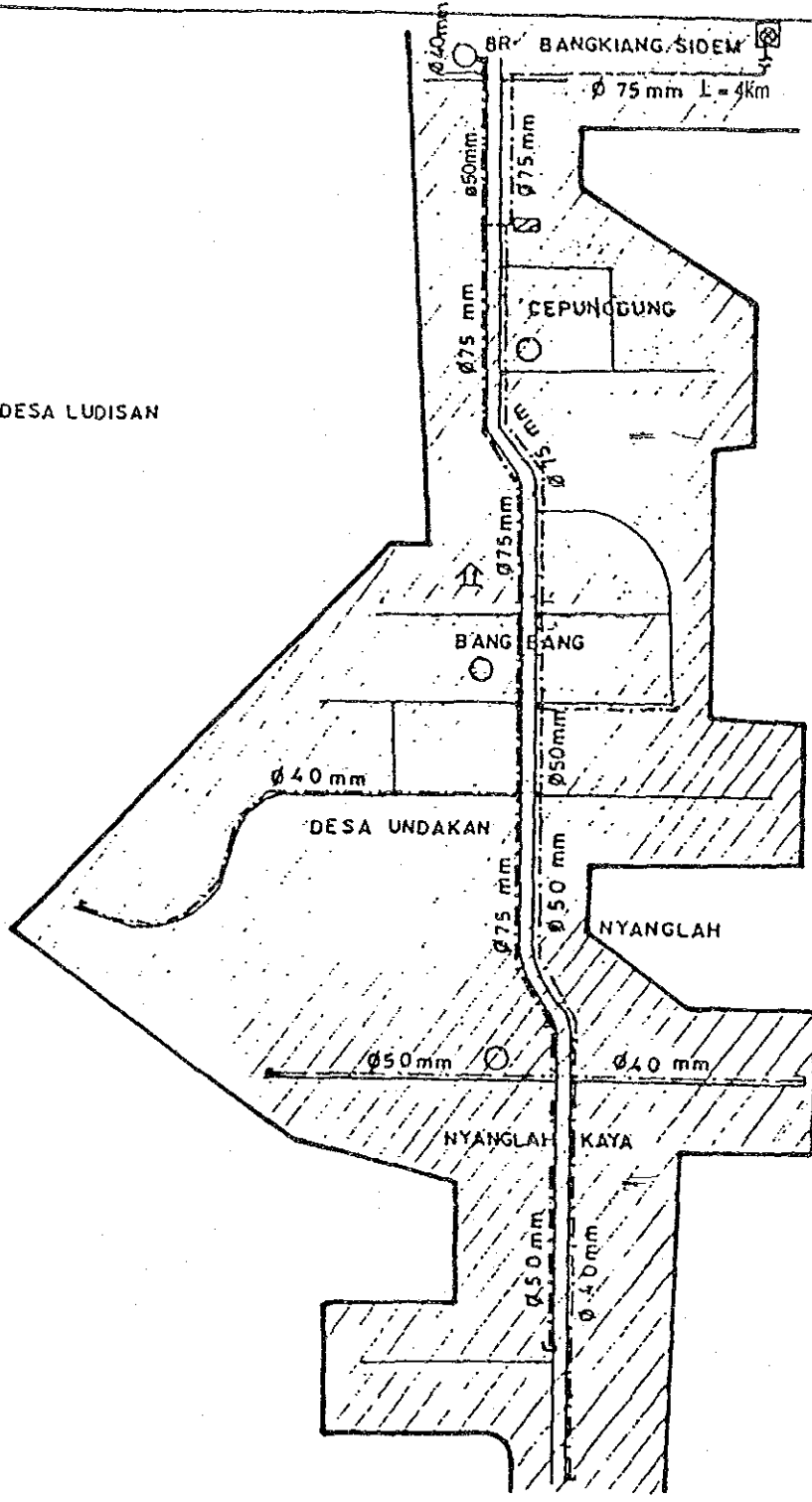


SCALE 1 : 20.000  
B-59

BANGBANG

DESA LUDISAN

KAB. KARANG ASEM



KAB. KLUNGKUNG

A - a

**LEGEND**

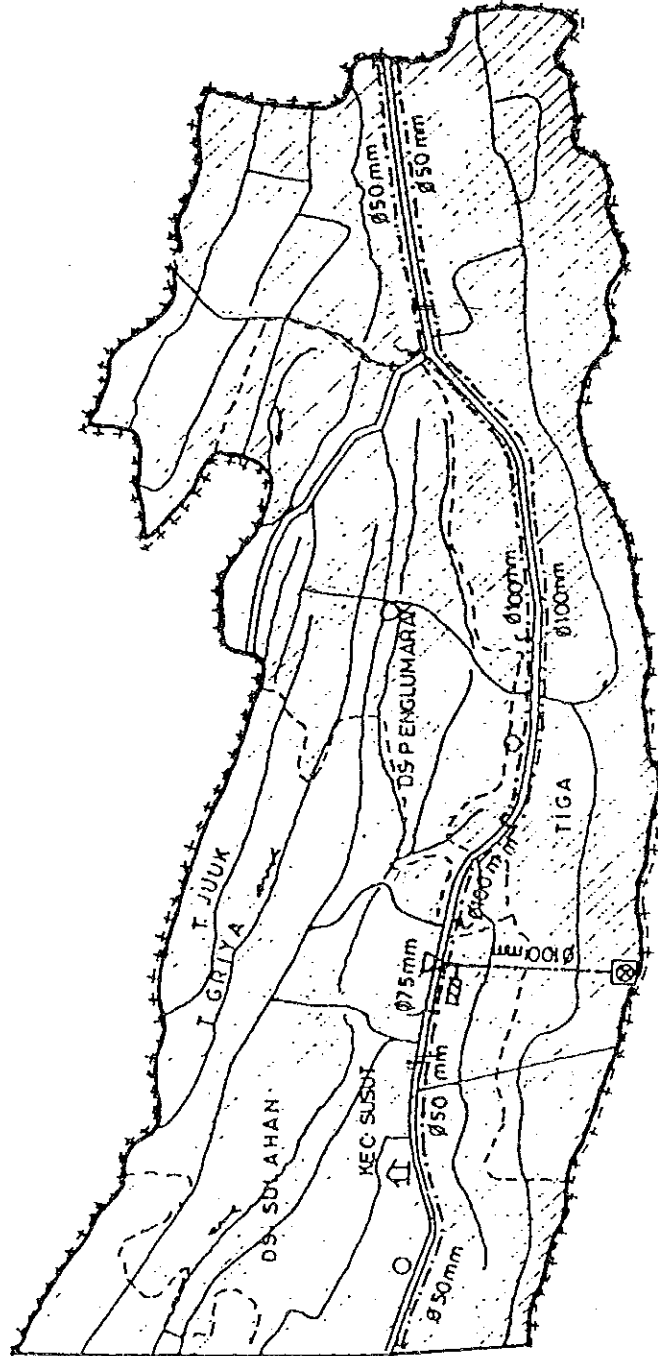
- == MAIN ROAD
- DESA ROAD
- - - - - KAB. BOUNDARY
- + + + + + KAC. BOUNDARY
- - - - - DESA BOUNDARY
- ~ RIVER
- DESA OFFICE
- ⊕ KEC. OFFICE
- ▨ IKK. AREA
- ⊗ PROPOSED SPRING
- ☐ RESERVOIR
- ▲ ELEVATED TANK
- · - · - · - TRANSMISSION PIPE LINE
- - - - - DISTRIBUTION PIPE LINE



SCALE 1 : 40.000

B-60

TIGA



B-b