



LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (2m)
- - - : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised path)
- ▨ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- ▨ : Rice Field
- V V : Plantation
- ⊕ : Trees
- : House
- : Railway



GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING : LOCATION MAP OF EXISTING PUMP NO.5 (BANJARREJO)	PLATE NO. 10
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



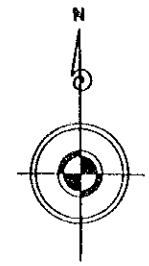
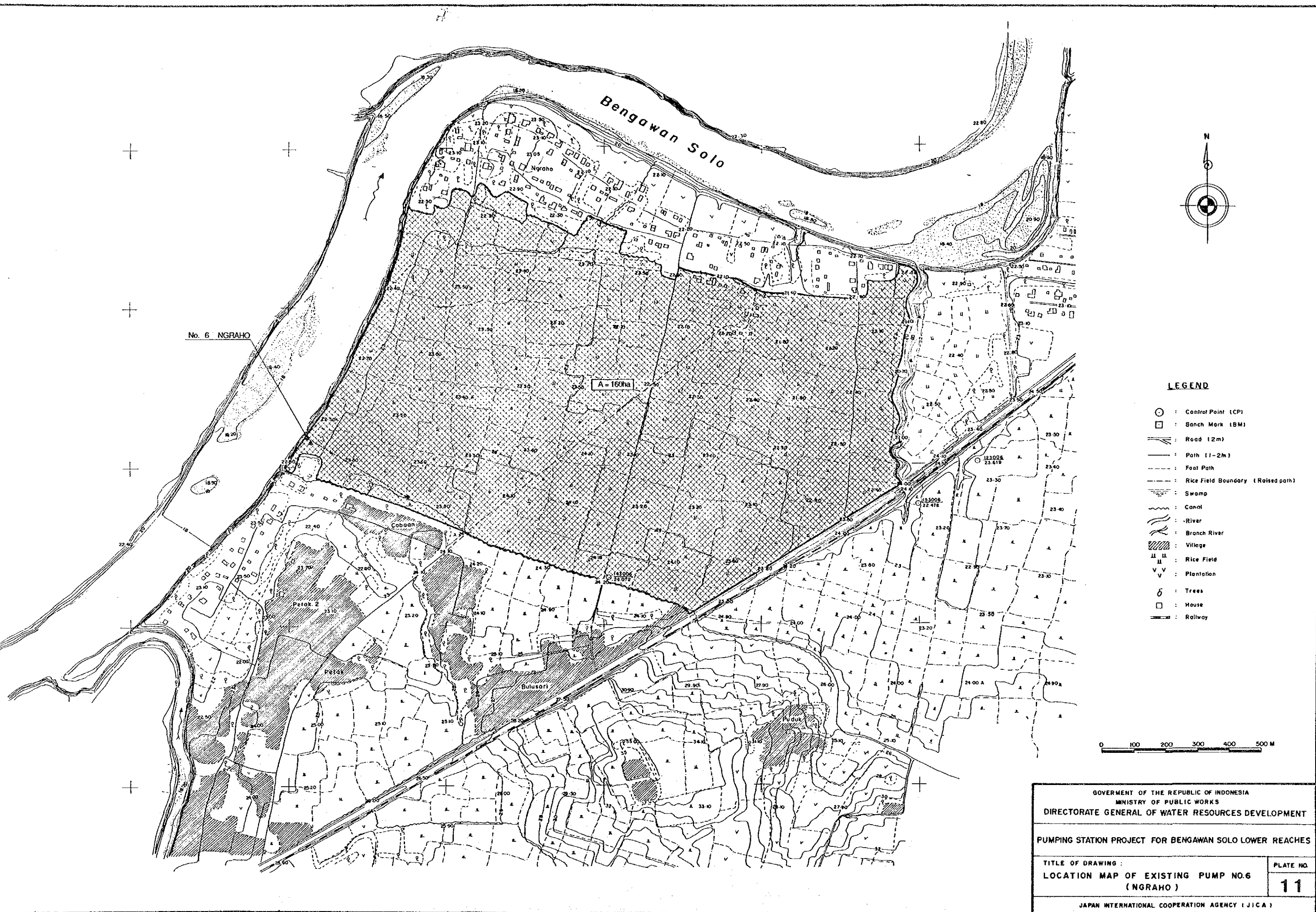
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GOVERNMENT OF THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES

PUMPING STATION PROJECT FOR BENGAWAN SOLO

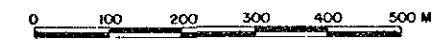
TITLE OF DRAWING :
 LOCATION MAP OF EXISTING INFRASTRUCTURE
 (NGRAHO)

JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND

- : Control Point (CPI)
- : Bench Mark (BM)
- : Road (2m)
- : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised path)
- ~ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- ▨ : Rice Field
- V V : Plantation
- ⊗ : Trees
- : House
- : Railway



GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING : LOCATION MAP OF EXISTING PUMP NO.6 (NGRAHO)	PLATE NO. 11
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



Bengawan Solo

Majenan

Manukan

No. 7 SUDU

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Alas metch

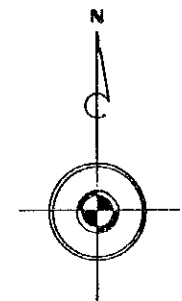
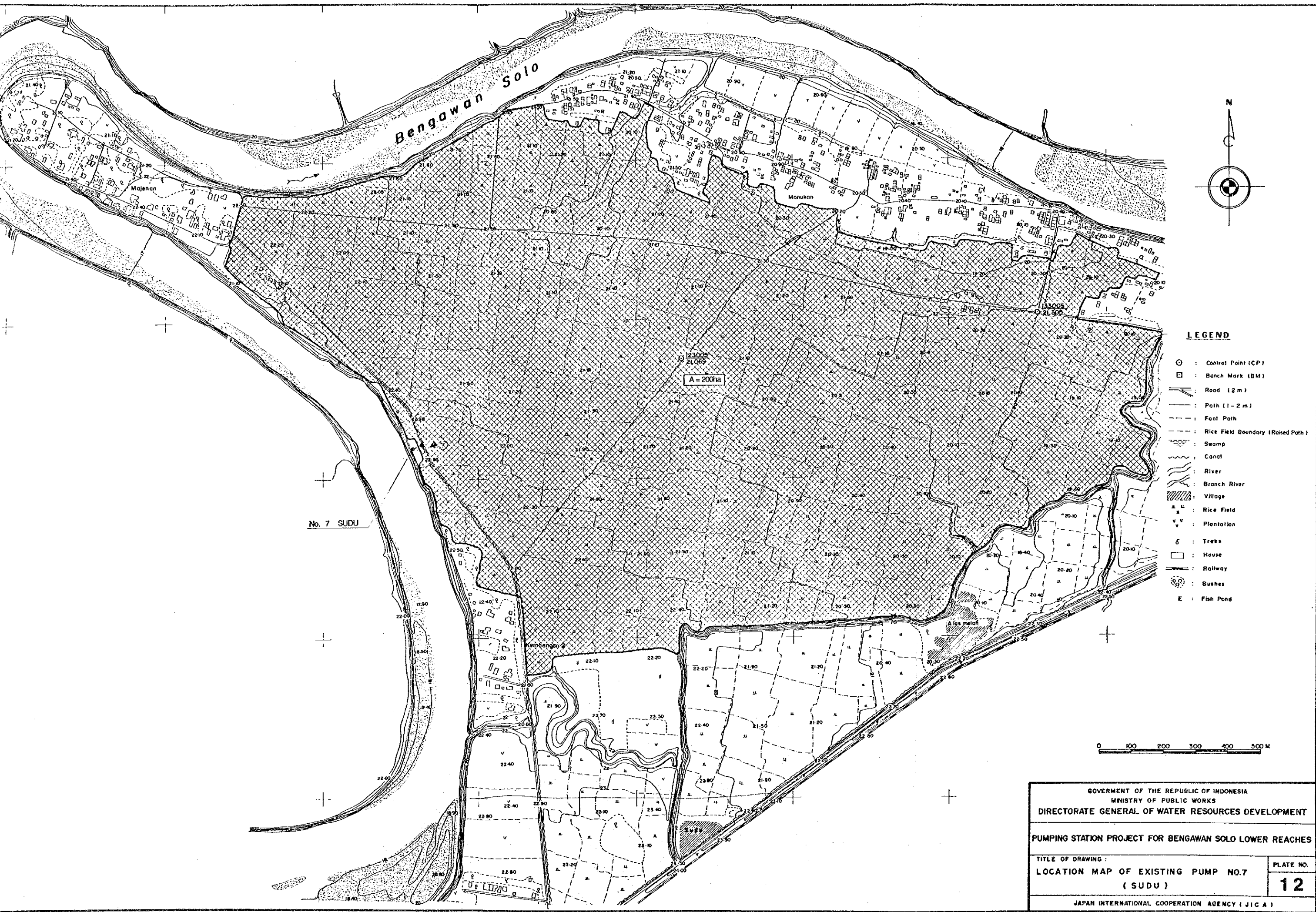
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GOVERNMENT OF THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES

PUMPING STATION PROJECT FOR BENGAWAN SOLO

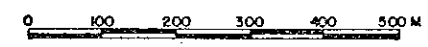
TITLE OF DRAWING :
 LOCATION MAP OF EXISTING (SUDU)

JAPAN INTERNATIONAL COOPERATION AGENCY

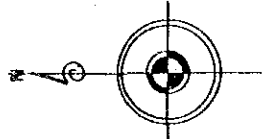


LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (12 m)
- - - : Path (1 - 2 m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised Path)
- ▨ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- △ : Rice Field
- ▽ : Plantation
- ⊕ : Trees
- : House
- : Railway
- ⊙ : Bushes
- E : Fish Pond



GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING : LOCATION MAP OF EXISTING PUMP NO.7 (SUDU)	PLATE NO. 12
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (12m)
- - - : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Bound
- ~ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- ▨ : Rice Field
- ∇ : Plantation
- ⊕ : Trees
- : House
- : Railway

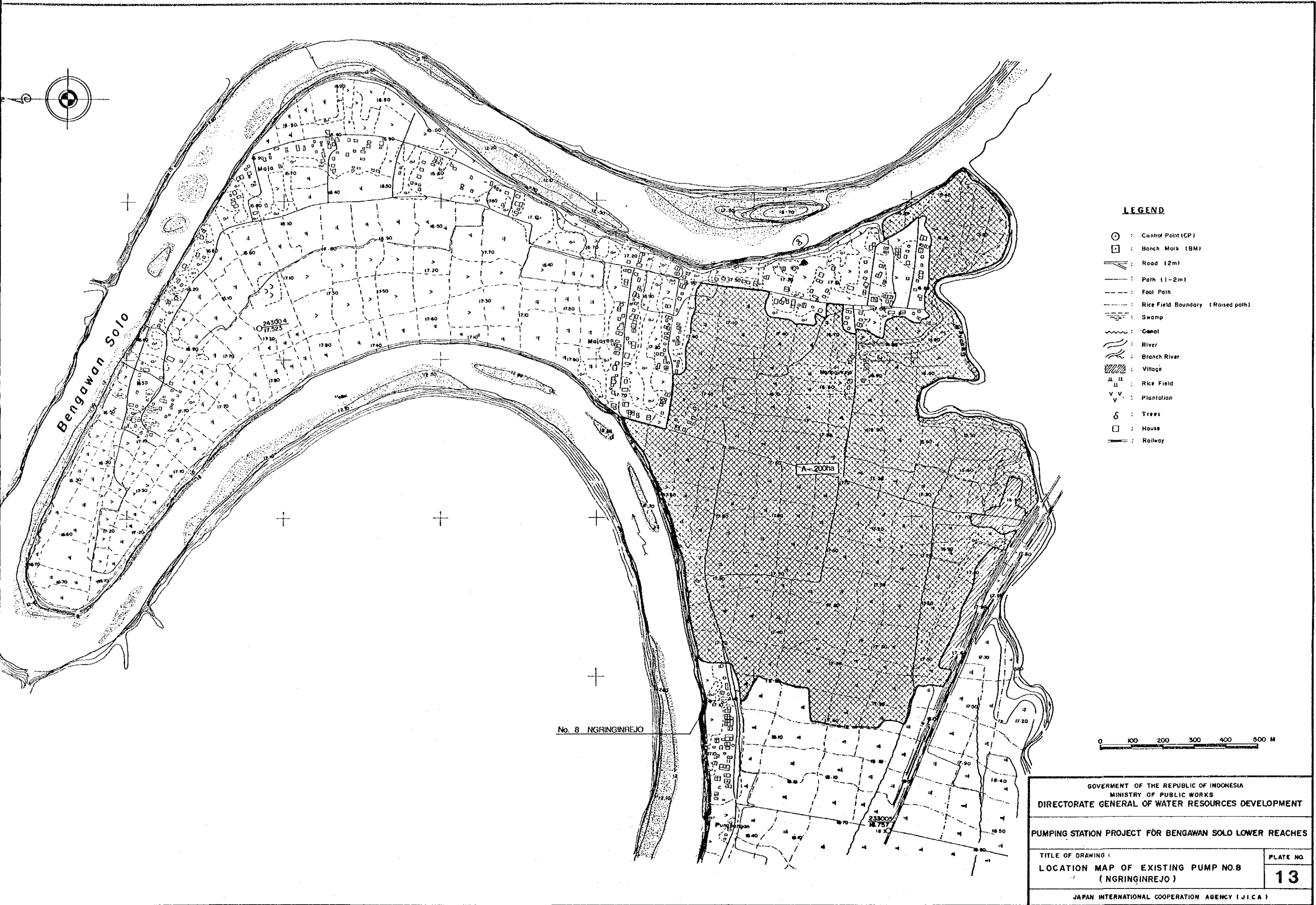


GOVERNMENT OF THE REPUBLIC
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES

PUMPING STATION PROJECT FOR BENGAWAN SOLO

TITLE OF DRAWING :
 LOCATION MAP OF EXISTING
 (NGRINGINREJO)

JAPAN INTERNATIONAL COOPERATION AGENCY



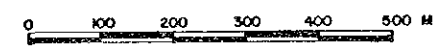
Bengawan Solo

No. 8 NGRINGINREJO

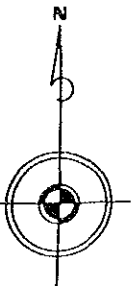
A-200ha

LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (2m)
- - - : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised path)
- ▨ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- ▨ : Rice Field
- ∇ : Plantation
- ⊗ : Trees
- : House
- : Railway



GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING : LOCATION MAP OF EXISTING PUMP NO.8 (NGRINGINREJO)	PLATE NO. 13
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



LEGEND

- : Control Point
- : Bench Mark
- : Road (2 m)
- - - : Path (1-2 m)
- - - : Rice Field Boundary
- ~ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- △ : Rice Field
- ▽ : Plantation
- ⊕ : Trees
- : House
- : Railway
- ▽ : Sugar Cane

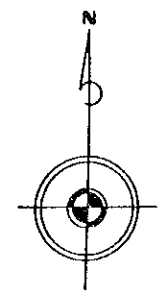


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 DIRECTORATE GENERAL OF WATER

PUMPING STATION PROJECT FOR BENK

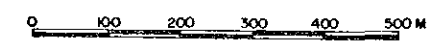
TITLE OF DRAWING :
 LOCATION MAP OF EXISTING
 (LERAN)

JAPAN INTERNATIONAL COOPERA

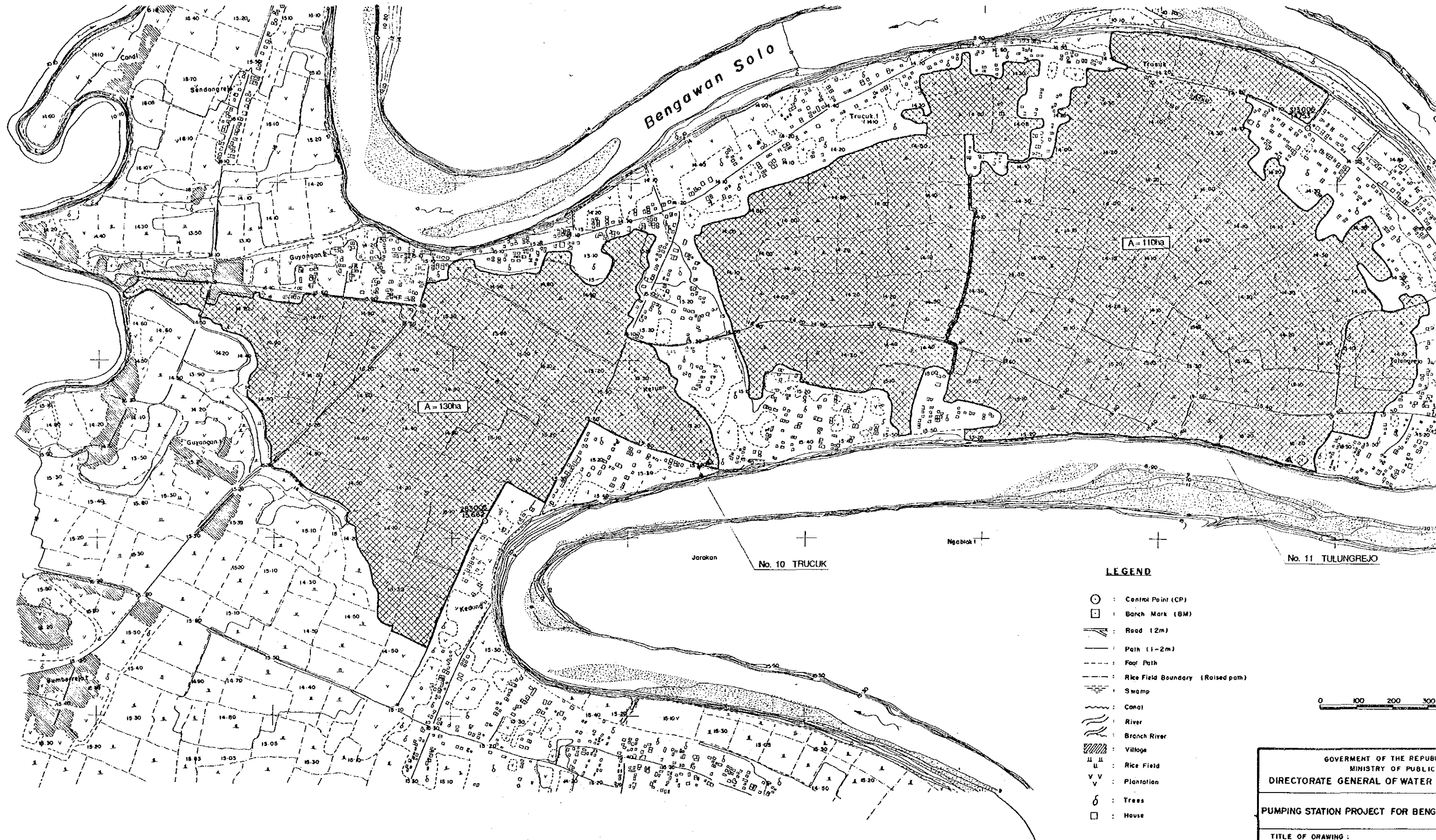
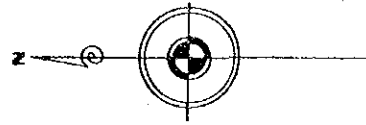


LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (2 m)
- : Path (1-2 m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised Path)
- ~ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- ▨ : Rice Field
- ∇ : Plantation
- △ : Trees
- : House
- : Railway
- ∇ : Sugar Cone



GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING :	PLATE NO.
LOCATION MAP OF EXISTING PUMP NO.9 (LERAN)	14
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

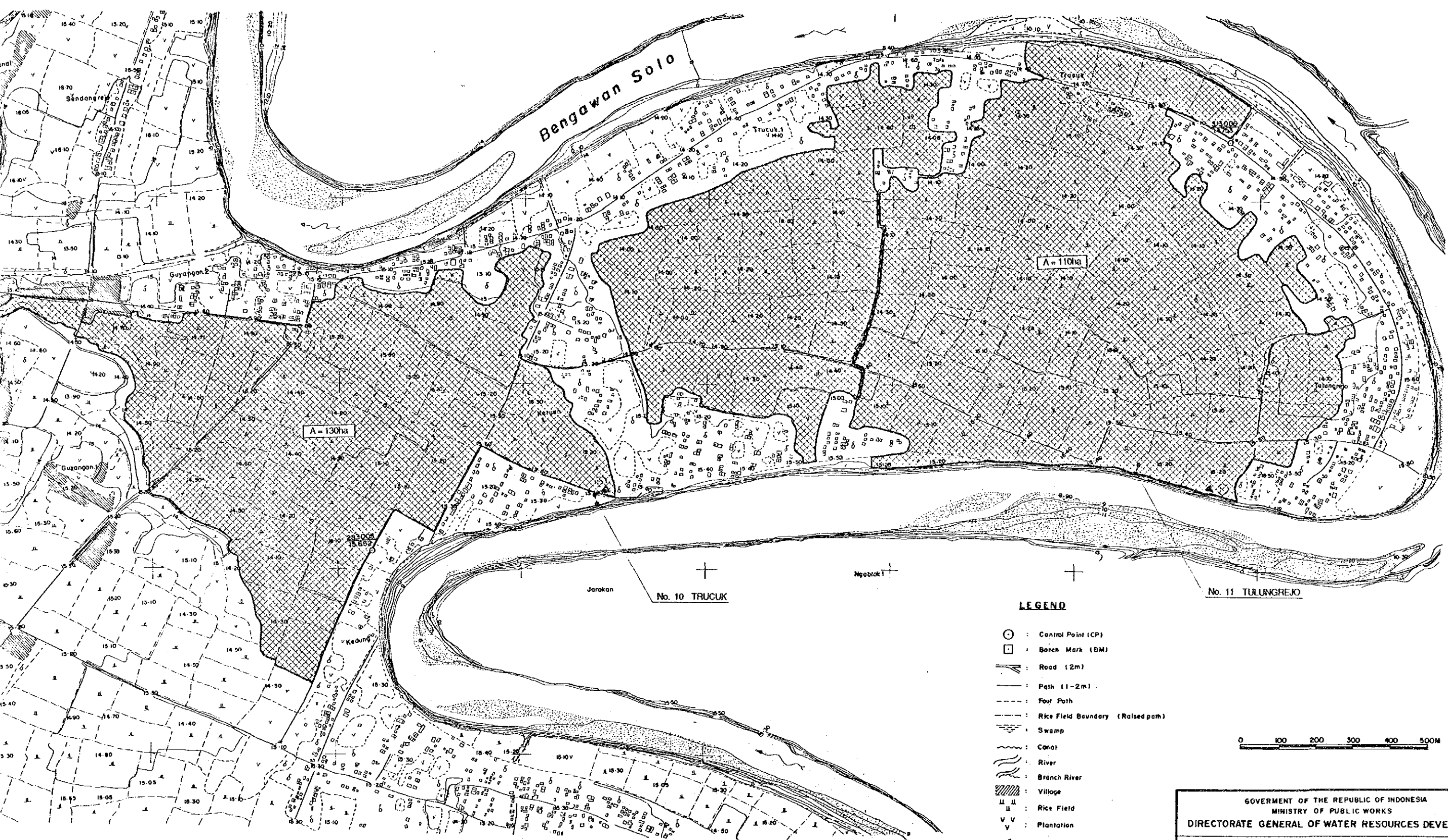
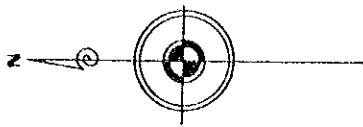


LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (2m)
- - - : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised path)
- ~ : Swamp
- : Canal
- : River
- : Branch River
- ▨ : Villoga
- ▨▨ : Rice Field
- V V : Plantation
- ♣ : Trees
- : House

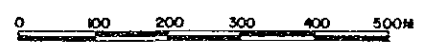


GOVERNMENT OF THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS AND HIGHWAYS
 DIRECTORATE GENERAL OF WATER RESOURCES
 PUMPING STATION PROJECT FOR BENGAWAN SOLO
 TITLE OF DRAWING :
 LOCATION MAP OF EXISTING (TRUCUK) PUMP NO. II (TULUNGREJO)
 JAPAN INTERNATIONAL COOPERATION AGENCY

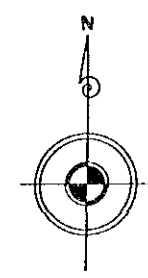


LEGEND

- : Central Point (CP)
- : Bench Mark (BM)
- : Road (2m)
- : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised path)
- ~ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ⊞ : Village
- ⊞ : Rice Field
- V V : Plantation
- δ : Trees
- : House

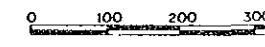


GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING : LOCATION MAP OF EXISTING PUMP NO.10 (TRUCUK) PUMP NO.11 (TULUNGREJO)	PLATE NO. 15
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



LEGEND

- ⊙ : Control Point (CP)
- ⊠ : Bench Mark (BM)
- : Road (2m)
- : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Boundary (R)
- ~ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- ▨ : Rice Field
- ∇ : Plantation
- ⊕ : Trees
- : House
- : Railway



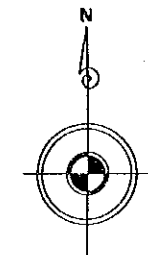
GOVERNMENT OF THE REPUBLIC
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES

PUMPING STATION PROJECT FOR BENGAWAN SOLO

TITLE OF DRAWING :
 LOCATION MAP OF EXISTING FACILITIES
 (MULYOAGUNG)

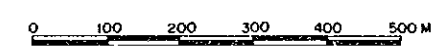
JAPAN INTERNATIONAL COOPERATION

No. 12 MULYOAGUNG



LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (2m)
- - - : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised path)
- ~ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- ▨ : Rice Field
- ▨ : Plantation
- δ : Trees
- : House
- : Railway



GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING : LOCATION MAP OF EXISTING PUMP NO.12 (MULYOAGUNG)	PLATE NO. 16
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



LEGEND

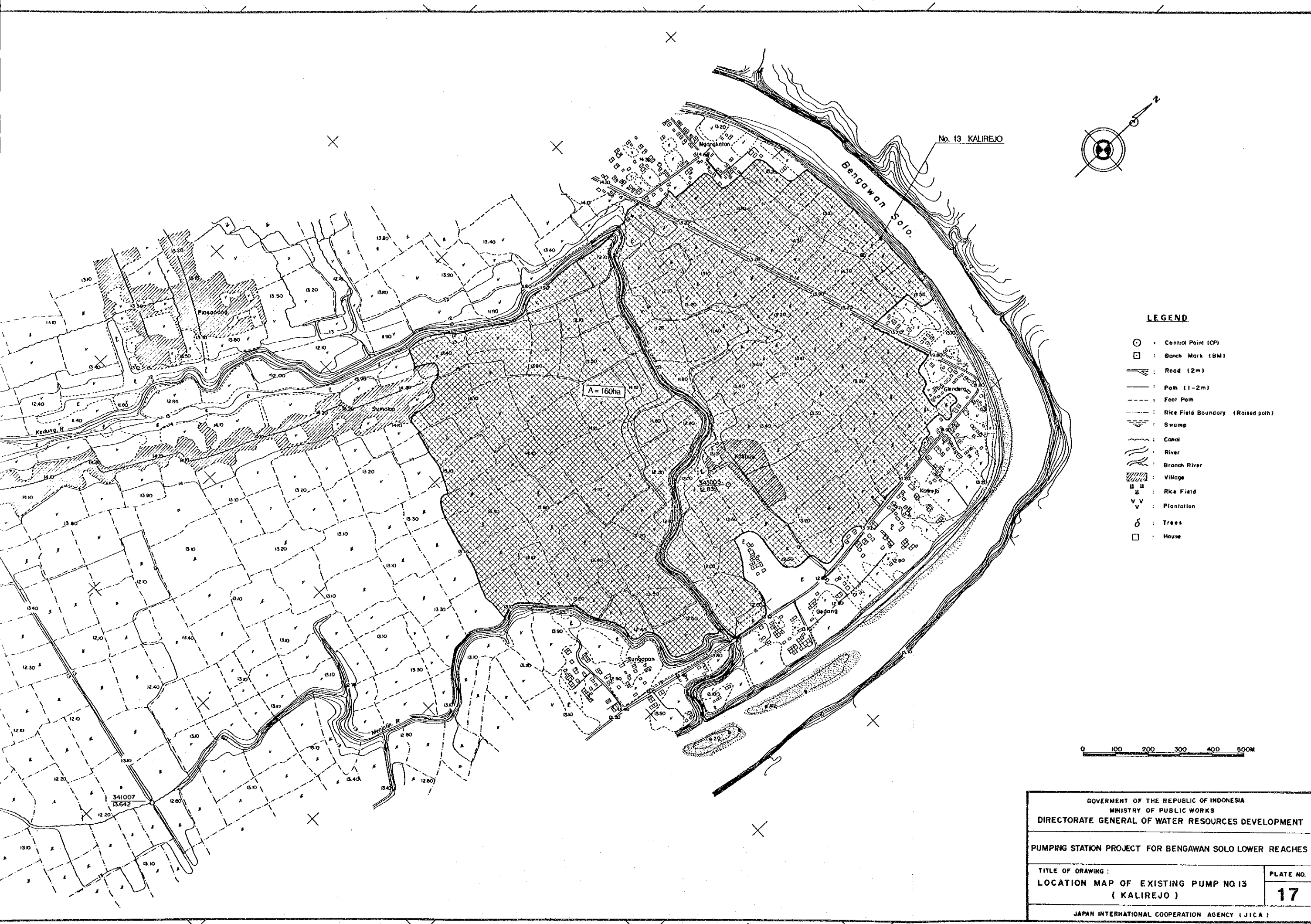
- : Can
- : Bar
- : Road
- : Path
- : Foot
- : Rice
- : Swa
- : Cont
- : River
- : Brook
- : Vill
- : Rice
- : Plat
- : Tree
- : Hou

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PUMPING STATION PROJECT FOR BE

TITLE OF DRAWING :
 LOCATION MAP OF EXISTIN
 (KALIREJO

JAPAN INTERNATIONAL COOPE

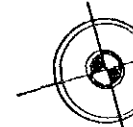
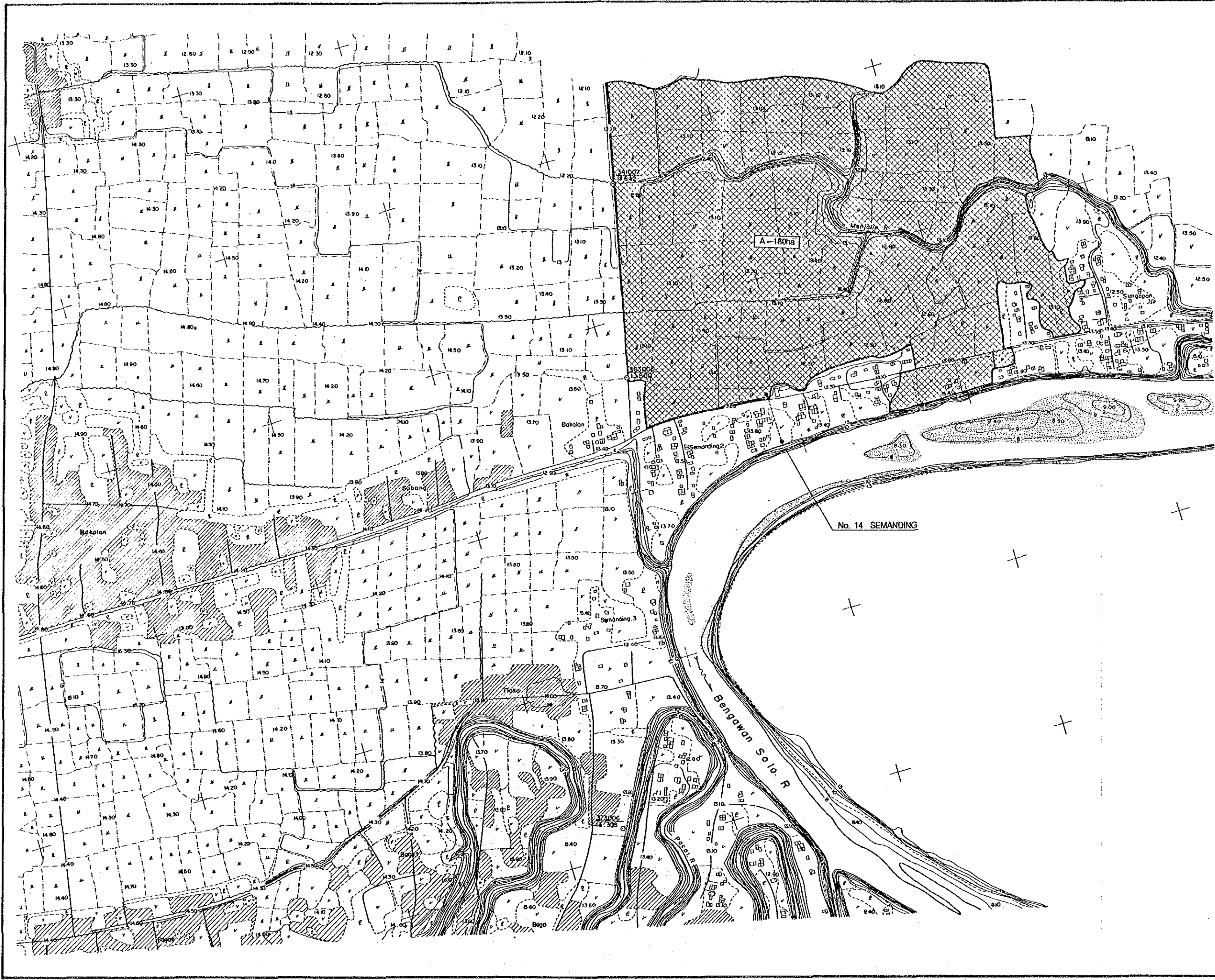


LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (2m)
- : Path (1-2m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised path)
- ~ : Swamp
- : Canal
- : River
- : Branch River
- ▨ : Village
- ▨ : Rice Field
- V V : Plantation
- ⊗ : Trees
- : House

0 100 200 300 400 500M

GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING : LOCATION MAP OF EXISTING PUMP NO.13 (KALIREJO)	PLATE NO. 17
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	



LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (2 m)
- - - : Path (1-2 m)
- - - : Foot Path
- - - : Rice Field Boundary (R)
- ▨ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▧ : Village
- ▧ : Rice Field
- V V : Plantation
- : Trees
- : House

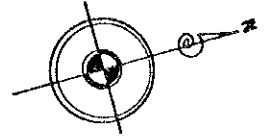
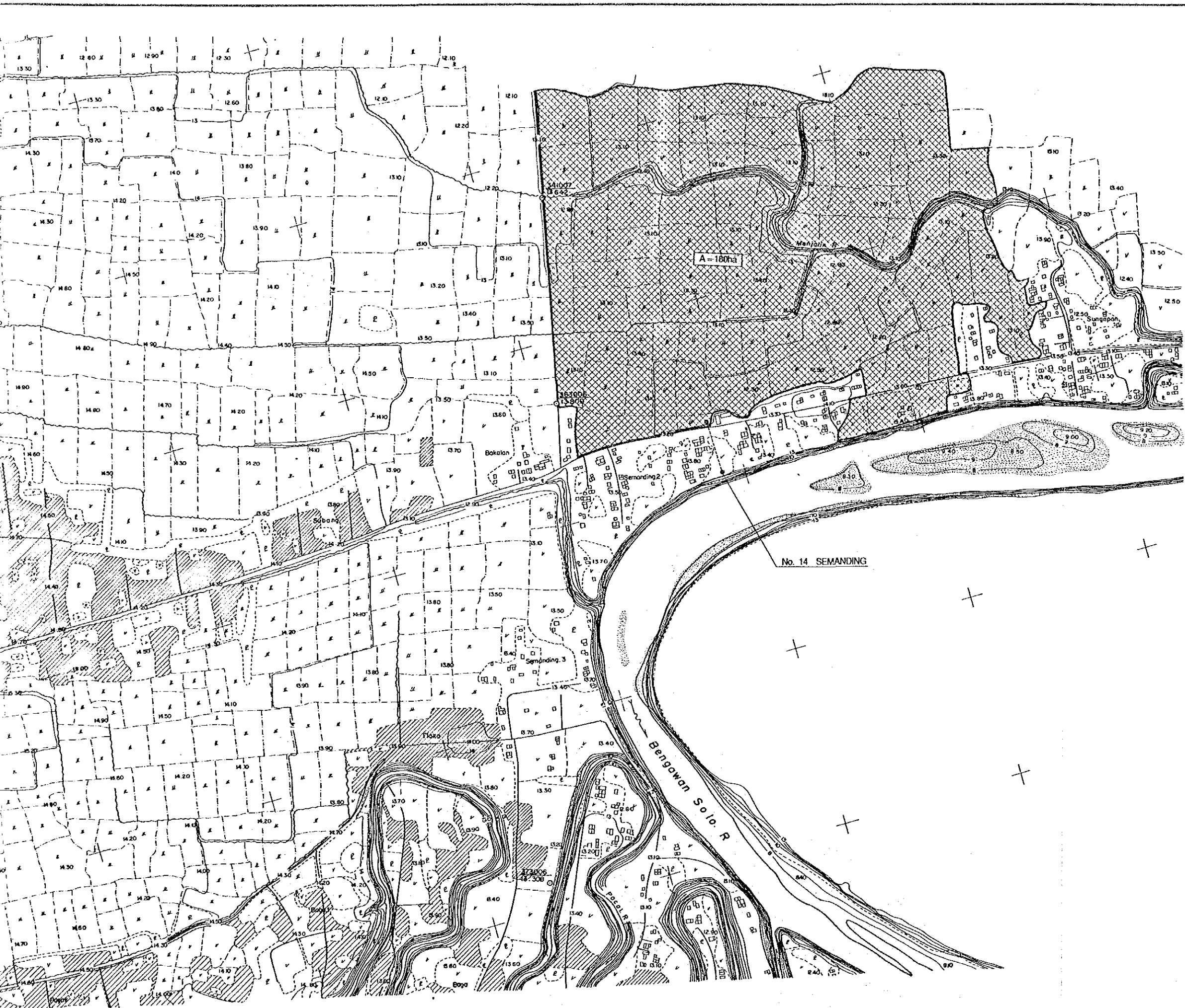


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 MINISTRY OF PUBI
 DIRECTORATE GENERAL OF WATE

PUMPING STATION PROJECT FOR BE

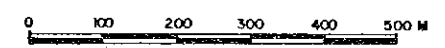
TITLE OF DRAWING :
 LOCATION MAP OF EXISTING
 (SEMANDING)

JAPAN INTERNATIONAL COOPER



LEGEND

- : Control Point (CP)
- : Bench Mark (BM)
- : Road (2 m)
- - - : Path (1-2 m)
- - - : Foot Path
- - - : Rice Field Boundary (Raised Path)
- ~ : Swamp
- ~ : Canal
- ~ : River
- ~ : Branch River
- ▨ : Village
- ▨ : Rice Field
- V V : Plantation
- : Trees
- : House



GOVERNMENT OF THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
PUMPING STATION PROJECT FOR BENGAWAN SOLO LOWER REACHES	
TITLE OF DRAWING : LOCATION MAP OF EXISTING PUMP NO. 14 (SEMANDING)	PLATE NO 18
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	