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生活用水供給計画  
図面集

昭和56年3月

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# DRAWING LIST

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1	TRANSMISSION CONDUIT AND DISTRIBUTION MAINS IN VUNICUICUI, WAIDAMUDAMU, VUNIMOLI	1/12,000	7	PUMP HOUSE	1/50
2	TRANSMISSION CONDUIT AND DISTRIBUTION MAINS IN VUNIKA	1/12,000	8	DISTRIBUTION TANK (HUME'S TANK)	1/40,1/50
3	TRANSMISSION CONDUIT AND DISTRIBUTION MAINS IN NABEKAVU	1/12,000	9	DETAIL OF FOOT OPERATED PUMP WELL COMMON TAPS, VILLAGE WATER SUPPLY SYSTEM	1/20,1/50
4	TRANSMISSION CONDUIT AND DISTRIBUTION MAINS IN VUNIVAU BUA	1/12,000	10	ELEVATED WATER TANK (FRP PANEL TANK)	1/20
5	STANDARD TRENCH DIMENSION SETTLEMENTS COMMON TAP SYSTEM	1/20	11	SHOWER HOUSE	1/50
6	PIPE ANCHORING FOR TEE & 90° BEND, RIVER CROSSING	1/10,1/50			

F I J I

BASIC DESIGN STUDY PHASE (II)

RURAL WATER SUPPLY DEVELOPMENT

SYSTEM: TRANSMISSION CONDUIT AND  
DISTRIBUTION MAINS IN  
VUNICUICU, WADAMUDAMU, VUNIMOLI

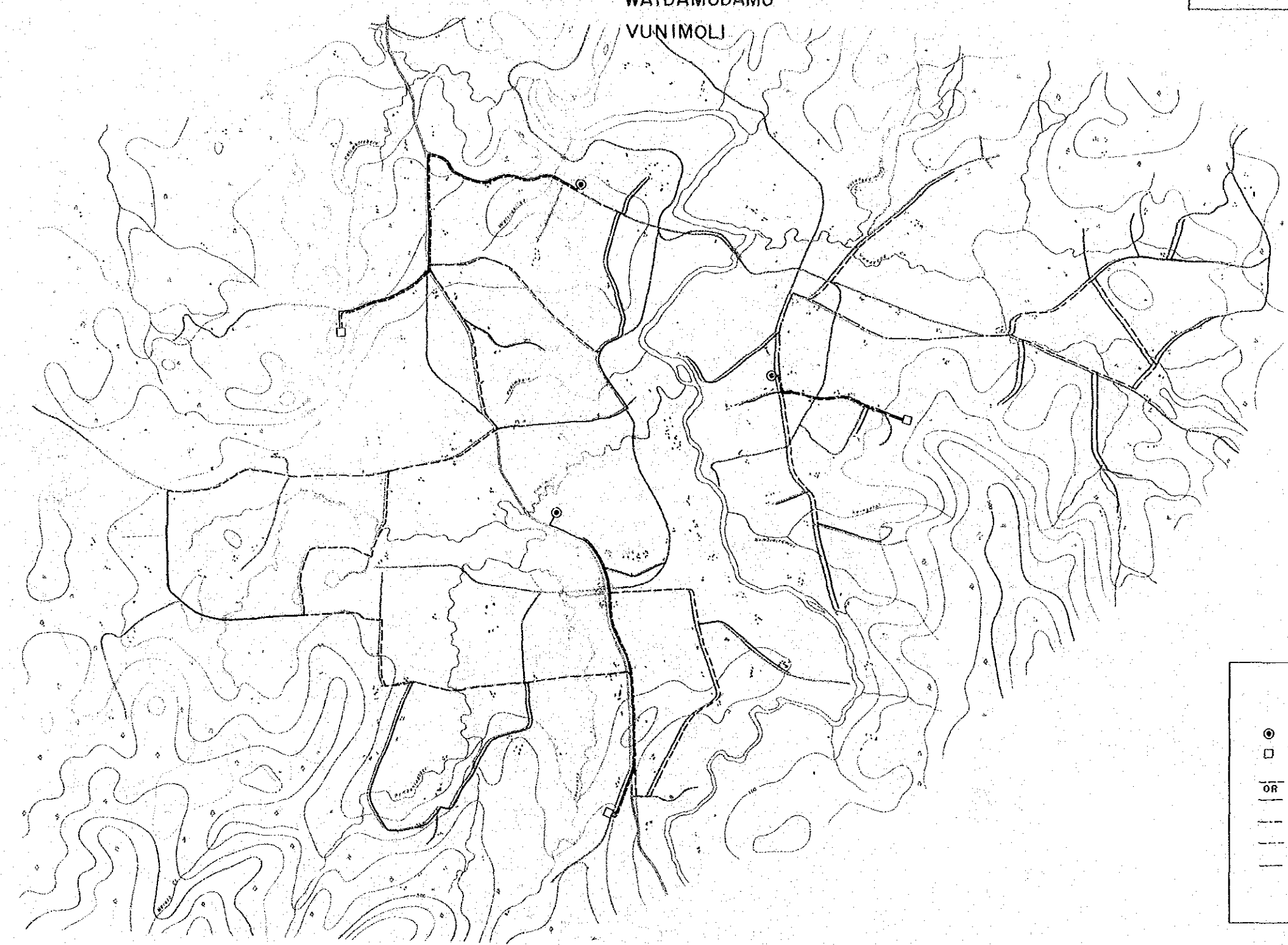
DWG. NO: 1 SCALE: 1/12,000 DATE

JAPAN INTERNATIONAL COOPERATION AGENCY

# TRANSMISSION CONDUIT AND DISTRIBUTION MAINS

S = 1/12,000

IN VUNICUICU  
WADAMUDAMU  
VUNIMOLI



## LEGEND

- WELL
- DISTRIBUTION TANK
- OR
- TRANSMISSION CONDUIT
- DISTRIBUTION MAINS + 100
- " " + 75
- " " + 50

FIJI

BASIC DESIGN STUDY PHASE (II)

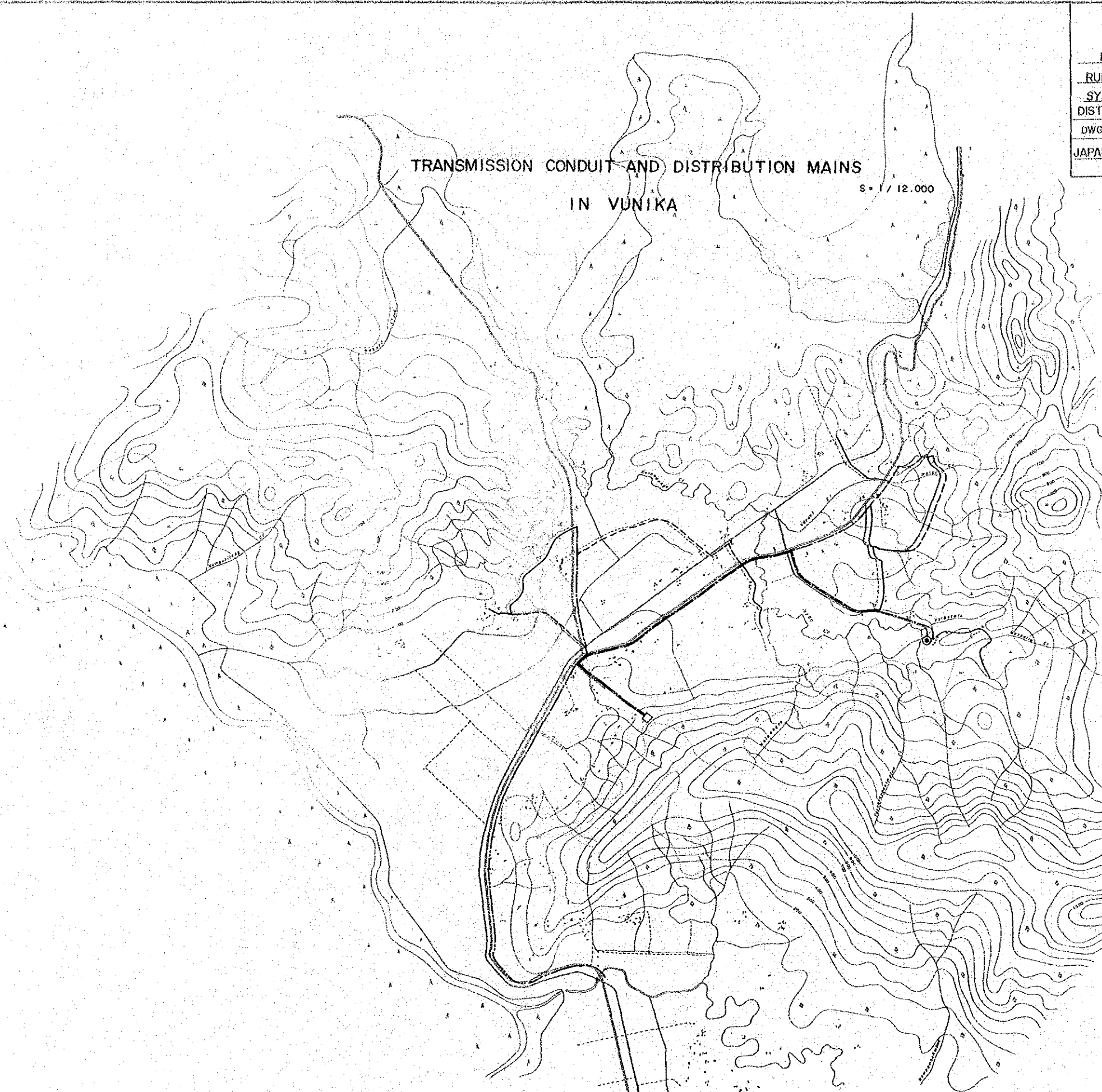
RURAL WATER SUPPLY DEVELOPMENT

SYSTEM: TRANSMISSION CONDUIT AND  
DISTRIBUTION MAINS IN  
VUNICUCU, WADAMUDAMU, VUNIMOLI

DWG. NO: 1 SCALE: 1/12000 DATE

JAPAN INTERNATIONAL COOPERATION AGENCY





TRANSMISSION CONDUIT AND DISTRIBUTION MAINS  
IN VUNIKA

S = 1 / 12,000

F.I.J.I.

BASIC DESIGN STUDY PHASE (II)

RURAL WATER SUPPLY DEVELOPMENT

SYSTEM: TRANSMISSION CONDUIT AND  
DISTRIBUTION MAINS IN VUNIKA

DWG. NO: 2 SCALE 1/12,000 DATE:

JAPAN INTERNATIONAL COOPERATION AGENCY

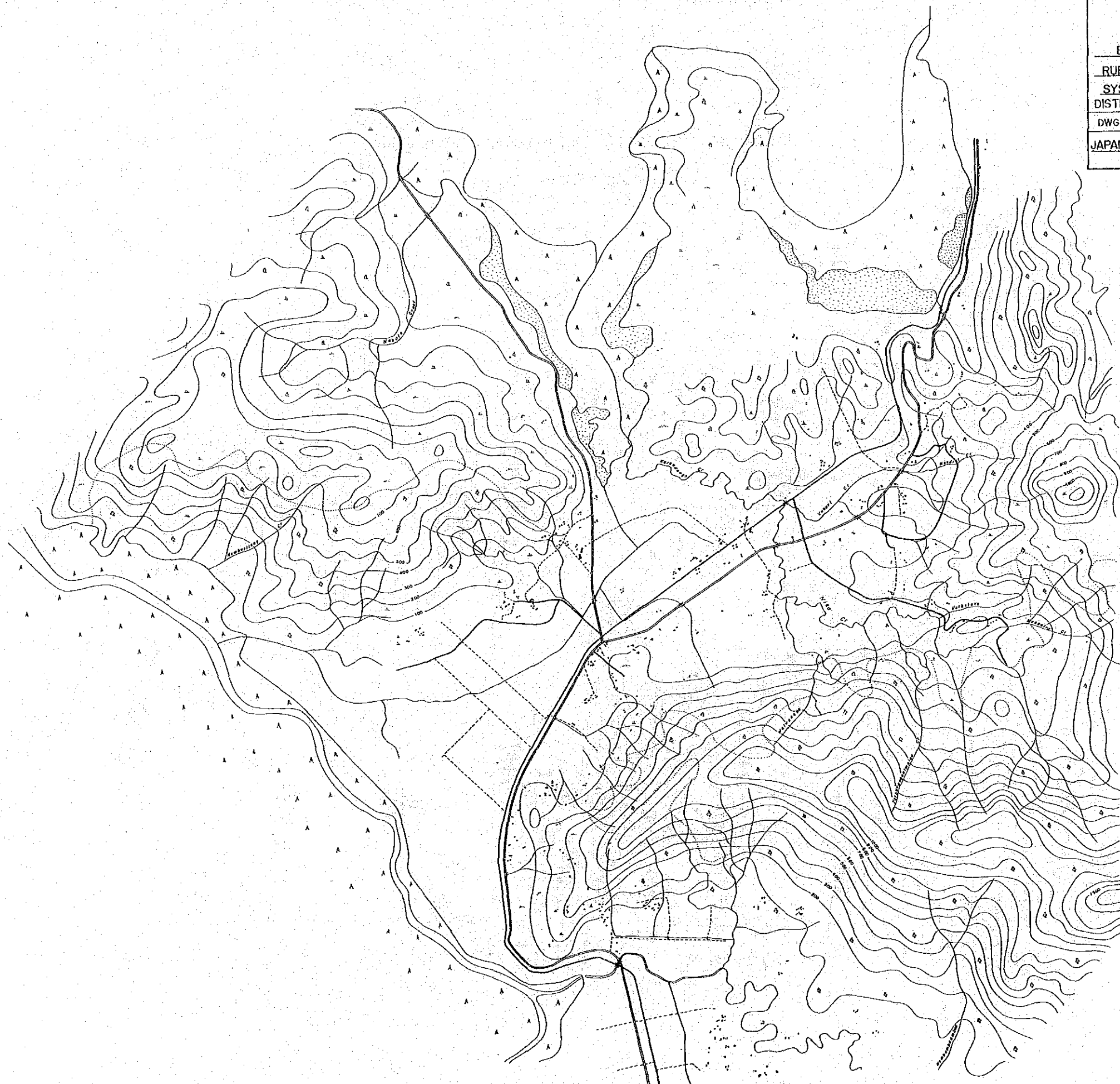
LEGEND

- ⊙ WELL
- DISTRIBUTION TANK
- TRANSMISSION CONDUIT
- DISTRIBUTION MAINS  $\phi 150$
- " "  $\phi 100$
- " "  $\phi 75$
- " "  $\phi 50$

F I J I

BASIC DESIGN STUDY PHASE (II)  
RURAL WATER SUPPLY DEVELOPMENT  
SYSTEM: TRANSMISSION CONDUIT AND  
DISTRIBUTION MAINS IN VUNIKA

DWG. NO: 2 | SCALE: 1/12,000 | DATE:  
JAPAN INTERNATIONAL COOPERATION AGENCY



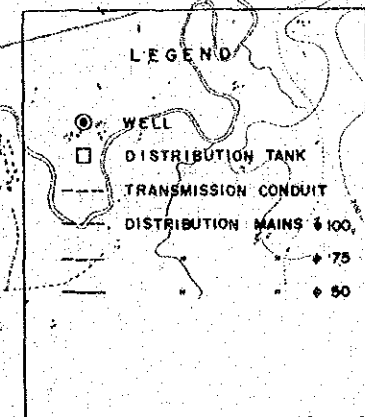


FIJI

BASIC DESIGN STUDY PHASE (II)  
RURAL WATER SUPPLY DEVELOPMENT  
SYSTEM: TRANSMISSION CONDUIT AND  
DISTRIBUTION MAINS IN NABEKAVU  
DWG. NO: 3 SCALE: 1/12,000 DATE:  
JAPAN INTERNATIONAL COOPERATION AGENCY

TRANSMISSION CONDUIT AND DISTRIBUTION MAINS  
IN NABEKAVU

S = 1 / 12,000

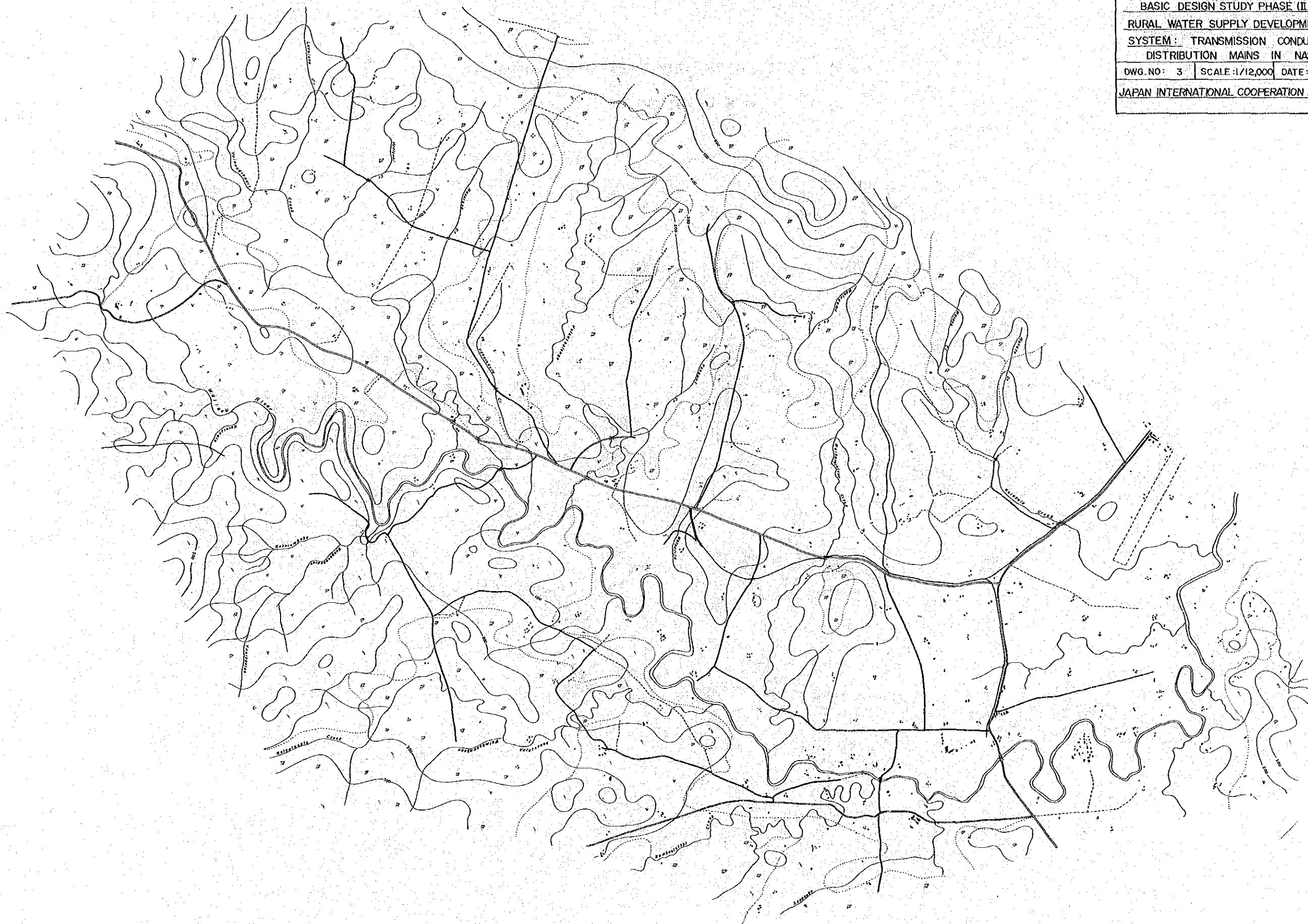


FIJI

BASIC DESIGN STUDY PHASE (II)  
RURAL WATER SUPPLY DEVELOPMENT  
SYSTEM: TRANSMISSION CONDUIT AND  
DISTRIBUTION MAINS IN NABEKAVU

DWG. NO: 3 SCALE: 1/12,000 DATE:

JAPAN INTERNATIONAL COOPERATION AGENCY



F I J I

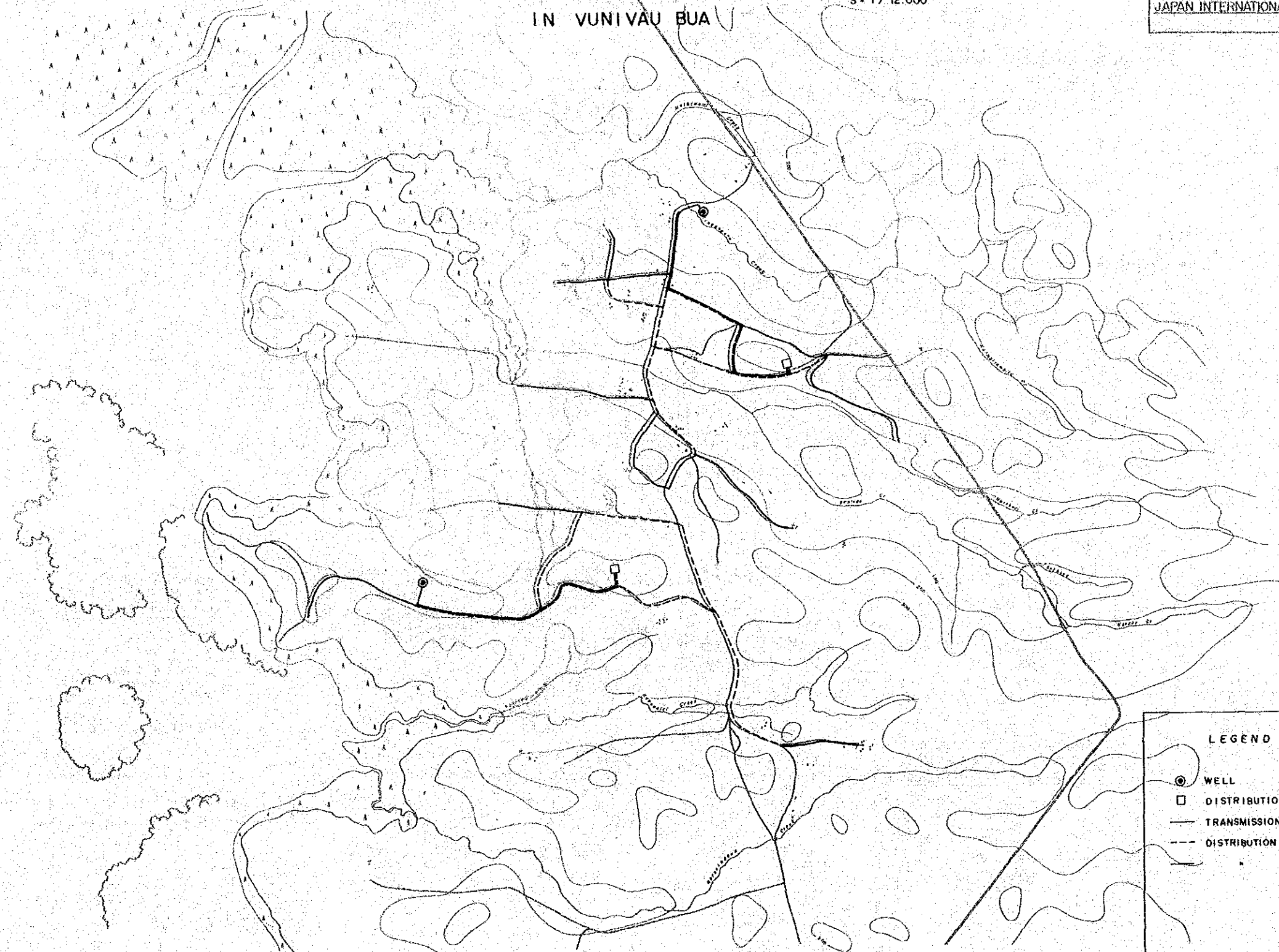
BASIC DESIGN STUDY PHASE (II)  
RURAL WATER SUPPLY DEVELOPMENT  
SYSTEM: TRANSMISSION CONDUIT AND  
DISTRIBUTION MAINS IN VUNIVAU BUA

DWG. NO: 4 SCALE: 1/12,000 DATE:  
JAPAN INTERNATIONAL COOPERATION AGENCY

TRANSMISSION CONDUIT AND DISTRIBUTION MAINS

IN VUNIVAU BUA

S = 1 / 12,000



LEGEND

- WELL
- DISTRIBUTION TANK
- TRANSMISSION CONDUIT
- - - DISTRIBUTION MAINS φ 75
- - - " " φ 50

F I J I

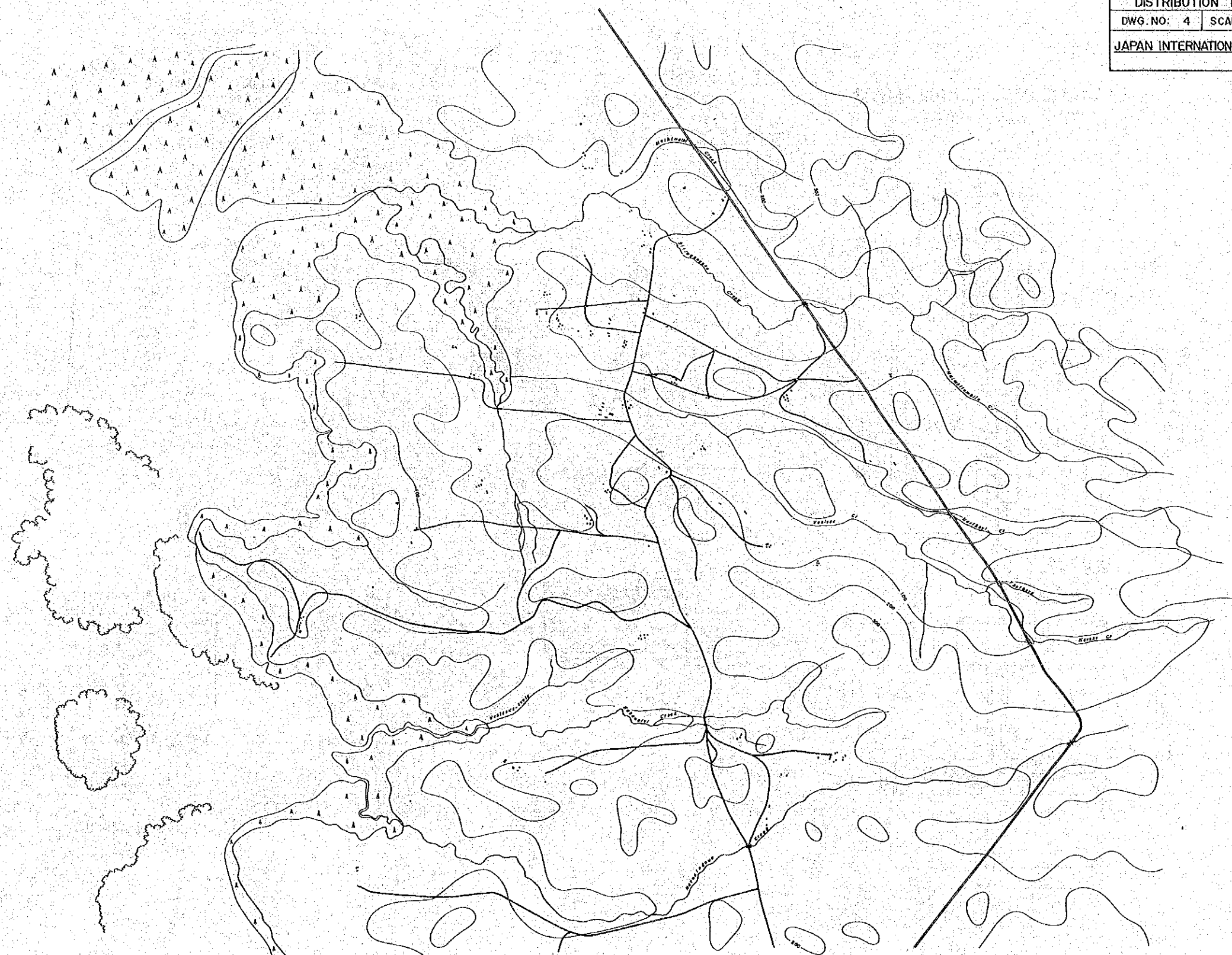
BASIC DESIGN STUDY PHASE (II)

RURAL WATER SUPPLY DEVELOPMENT

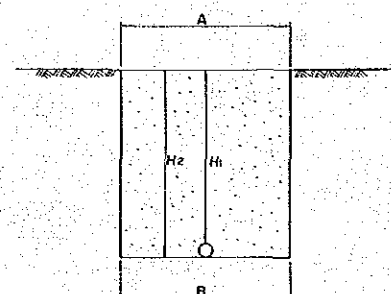
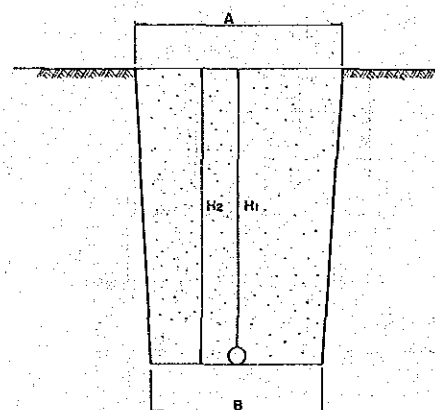
SYSTEM: TRANSMISSION CONDUIT AND  
DISTRIBUTION MAINS IN VUNIVAU BUA

DWG. NO: 4 SCALE: 1/12,000 DATE:

JAPAN INTERNATIONAL COOPERATION AGENCY



# STANDARD TRENCH DIMENSION



DIA (mm)	A (mm)	B (mm)	H1 (mm)	H2 (mm)	EXCAVATION (m³)	SURPLUS SOIL (m³)	BACKFILL (m³)
50	600	500	800	850	0.47	0.00	0.47
75	-	-	-	875	0.48	0.00	0.48
100	-	-	-	900	0.50	0.01	0.49
125	-	-	-	925	0.51	0.01	0.50
150	-	-	-	950	0.52	0.02	0.50
200	-	-	-	1000	0.55	0.03	0.52

(Earth Volume: Per Linear Meter)

## NOTE

- Earth covering for road crossing and railway crossing shall
- Not be less than 1.2 m
- Surplus soil may be spread nearby by the direction of the Engineer.

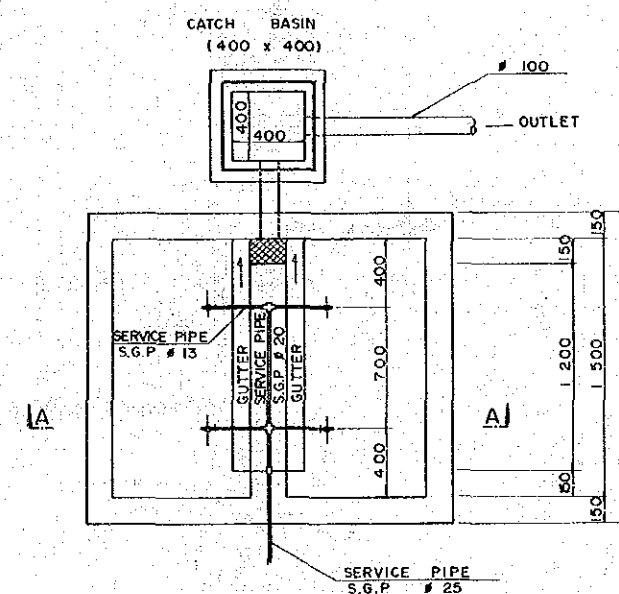
DIA (mm)	A (mm)	B (mm)	H1 (mm)	H2 (mm)	EXCAVATION (m³)	SURPLUS SOIL (m³)	BACKFILL (m³)
13	300	300	300	313	0.09	0.00	0.09
25	500	500	500	530 ~ 540	0.25	0.00	0.25

(Earth Volume: Per Linear Meter)

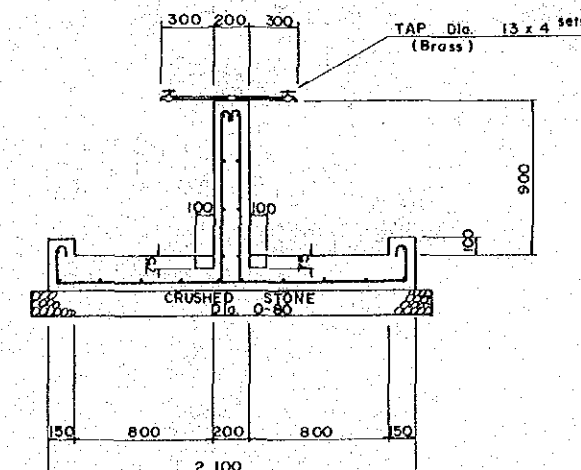
# SETTLEMENTS COMMON TAP SYSTEM

S = 1/20

## PLAN



## SECTION A-A

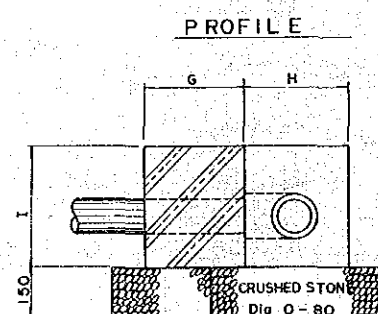
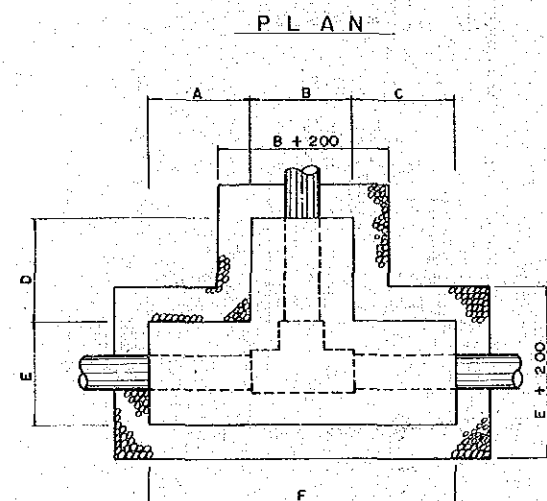


F I J I

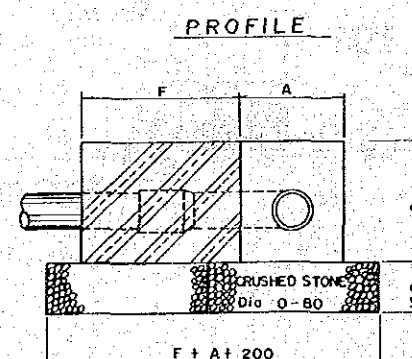
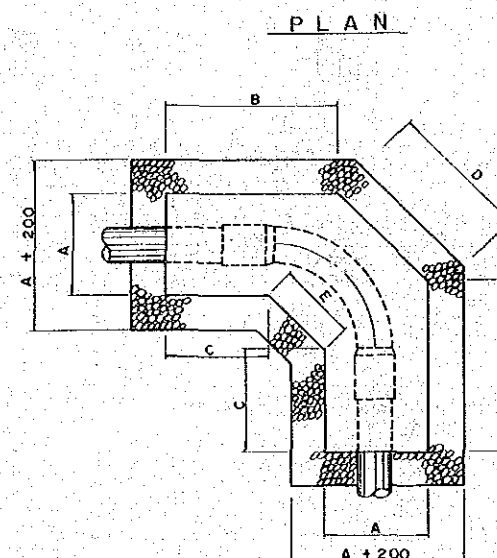
BASIC DESIGN STUDY PHASE (II)  
RURAL WATER SUPPLY DEVELOPMENT  
SYSTEM: PIPE ANCHORING FOR  
TEE & 90° BEND, RIVER CROSSING

DWG. NO: 6 SCALE: 1/10, 1/50 DATE:  
JAPAN INTERNATIONAL COOPERATION AGENCY

PIPE ANCHORING FOR TEE & 90° BEND  
S = 1/10

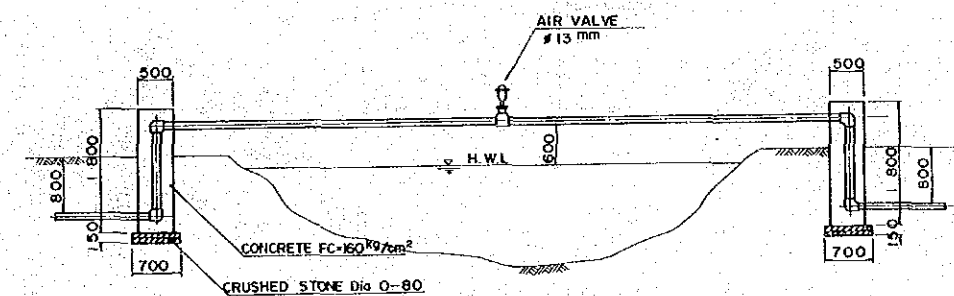
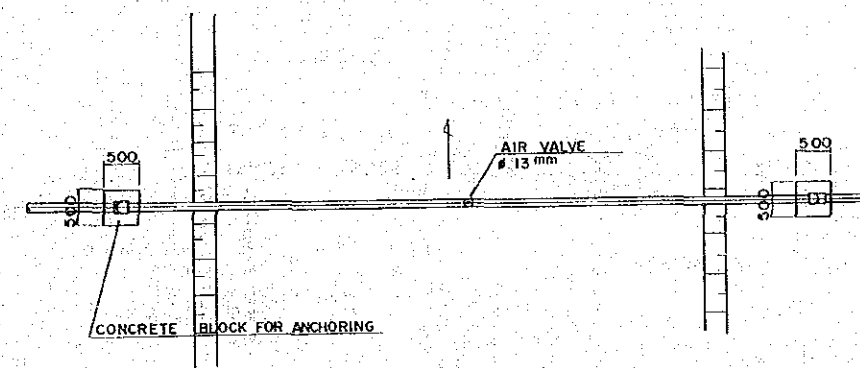


	DIA 100	DIA 150
A	300	350
B	300	350
C	300	350
D	300	350
E	300	350
F	900	1 050
G	300	350
H	300	350
I	300	350



	DIA 100	DIA 150
A	300	350
B	500	550
C	300	350
D	212	460
E	354	672
F	450	600
G	300	350

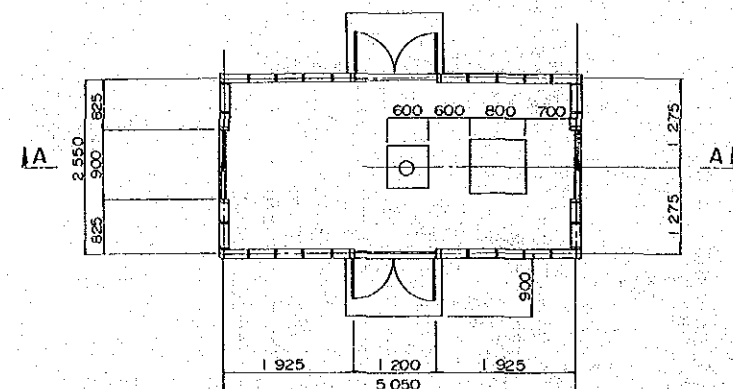
RIVER CROSSING  
S = 1/50



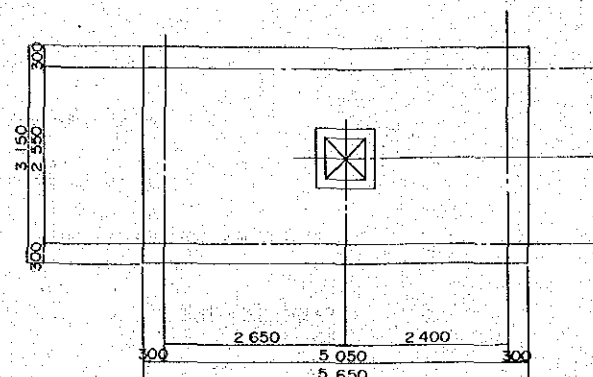


PUMP HOUSE S. 1/50

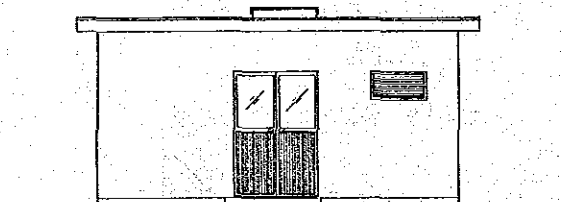
GROUND FLOOR PLAN S = 1/50



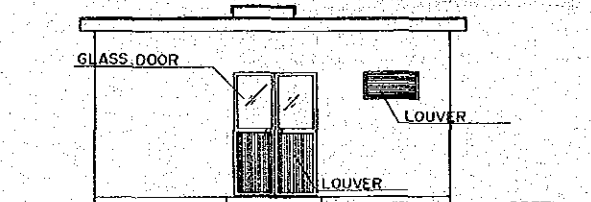
ROOF PLAN S = 1/50



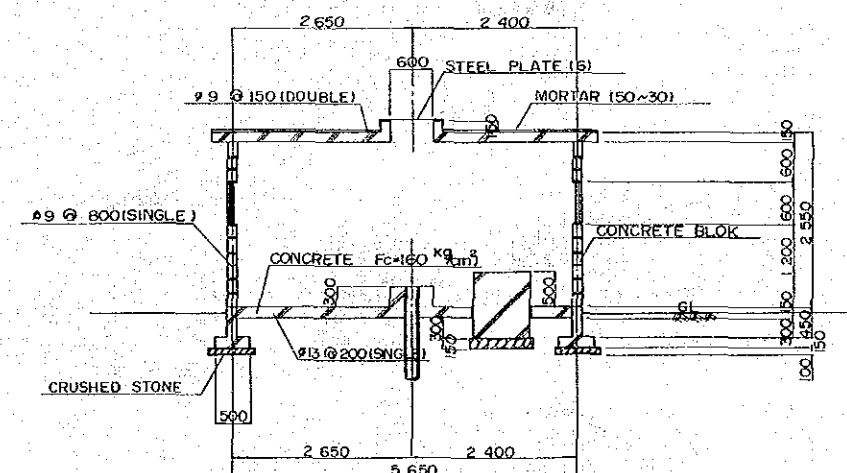
FRONT SIDE VIEW  $S = 1/50$



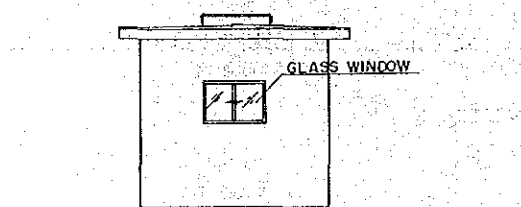
BACK SIDE VIEW s. 1/50



A - A SECTION S = 1/50



LEFT RIGHT SIDE VIEW S. 1/50



## TABLE OF QUANTITIES

CRUSHED STONE	1.06 m <sup>3</sup>
CONCRETE $F_c=160 \text{ kg/cm}^2$	7.80 m <sup>3</sup>
MORTAR 50 ~ 30	17.89 m <sup>2</sup>
CONCRETE BLOK	389 UNIT
STEEL BAR ( $\phi 9, \phi 13$ )	43.7 kg
STEEL PLATE (6)	33.56 kg
GLASS DOOR (1200 x 1800)	2 UNIT
GLASS WINDOW (900 x 600)	2
STEEL LOUVER (800 x 400)	2

F I J I

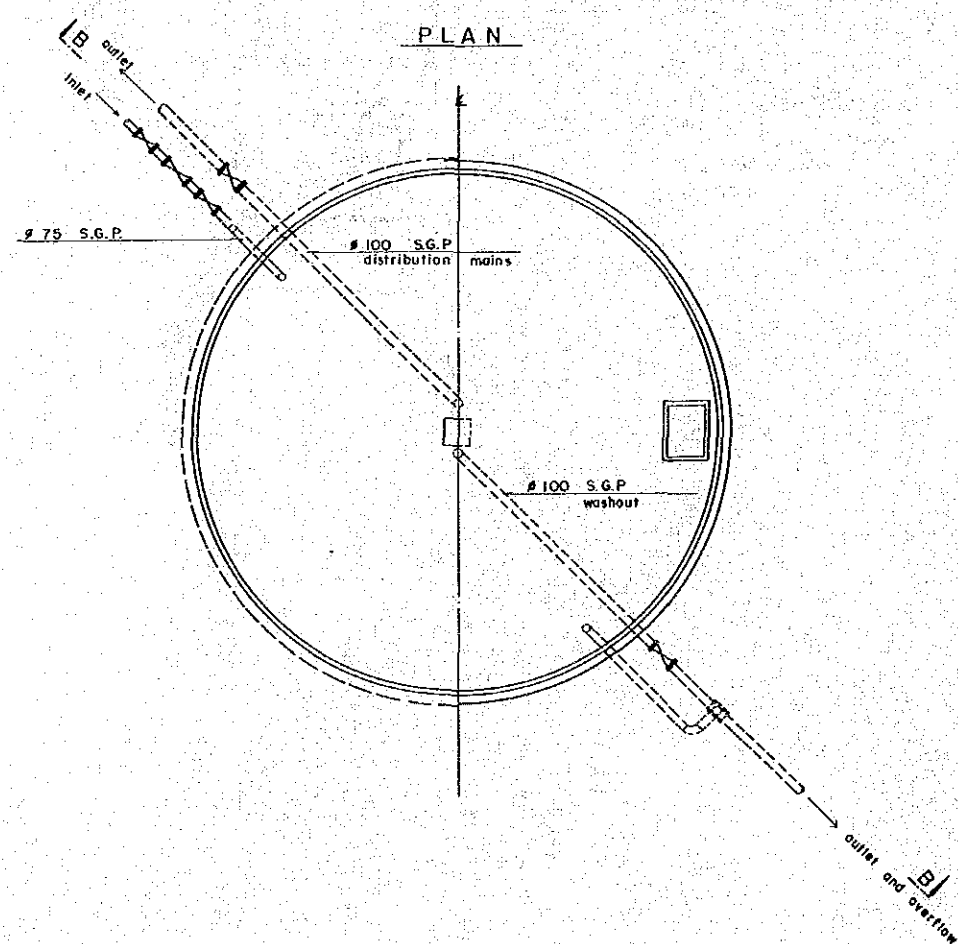
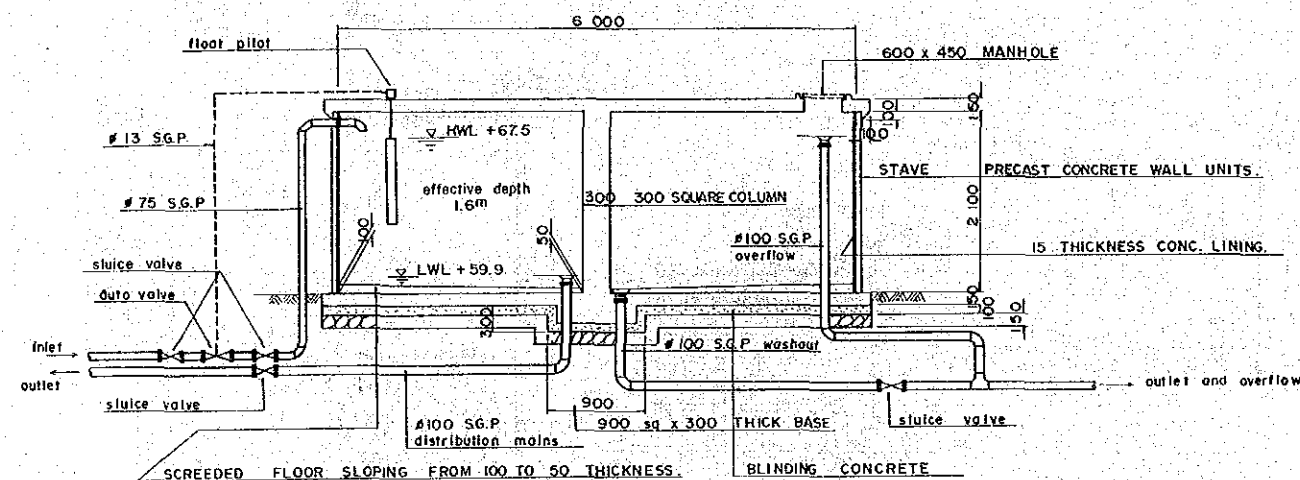
# DISTRIBUTION TANK (HUME'S TANK)

S = 1/40

## STRUCTURAL DRAWING

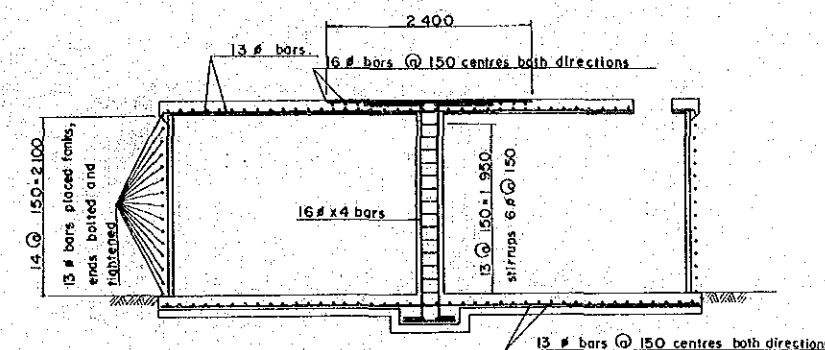
### B-B SECTION

INTERNAL DIAMETER = 6.000



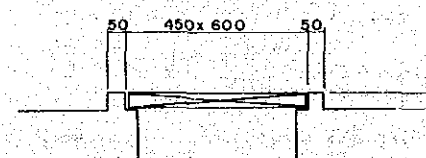
## REINFORCING BAR ARRANGEMENT DRAWING

### A-A SECTION



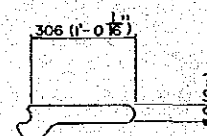
### SECTION THRE MANHOLE

S = 1/10



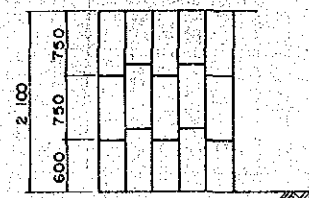
### STAVE DETAIL

S = 1/10



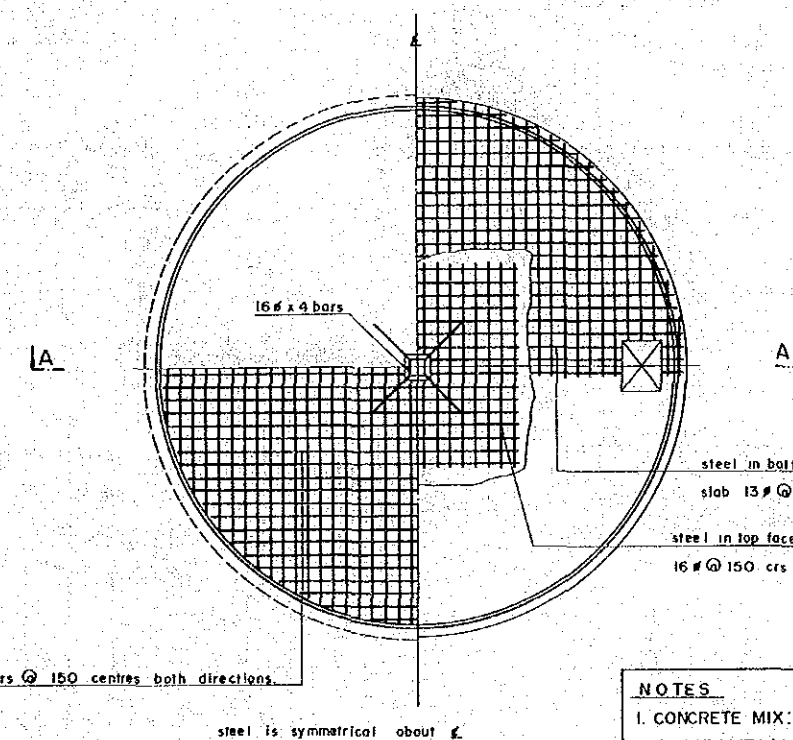
STANDARD LENGTH 600 (2'-0")  
750 (2'-6")

S = 1/40



### HALF FLOOR PLAN

### HALF ROOF PLAN



### NOTES

1. CONCRETE MIX: COARSE AGGREGATE/ SAND/ CEMENT  
4 : 2 : 1 BY VOLUME  
6 : 3 : 1 BY VOLUME FOR BLINDING CONCRETE.
2. RUBBLE STONE FOUNDATION  
DIA. 50~100

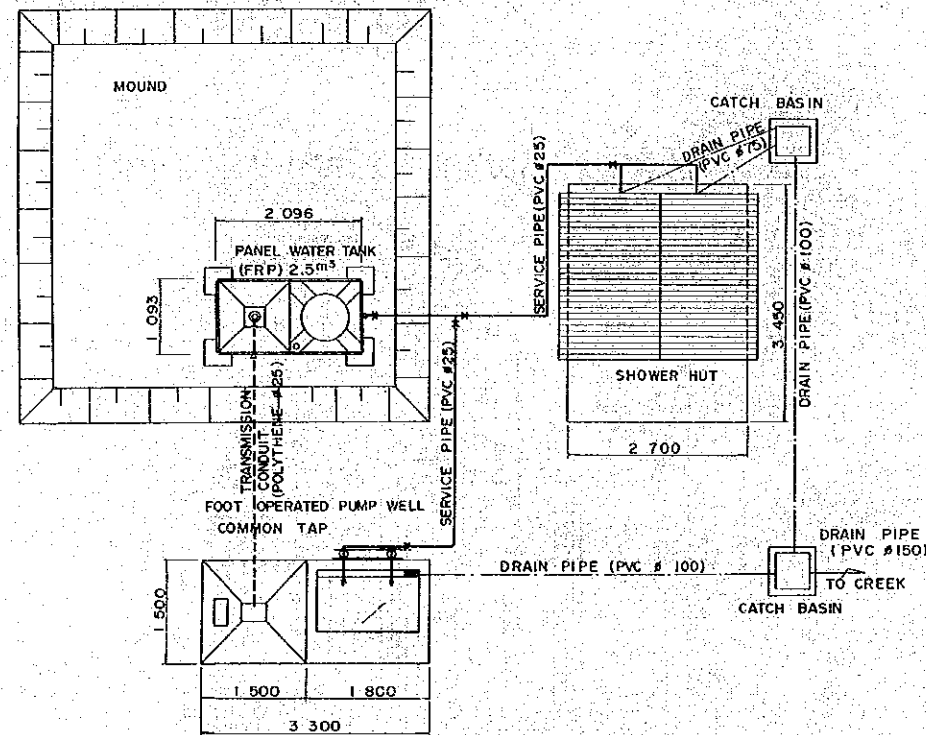


FIJI

BASIC DESIGN STUDY PHASE (II)  
RURAL WATER SUPPLY DEVELOPMENT  
SYSTEM: DETAIL OF FOOT OPERATED  
PUMP WELL & COMMON TAP,  
VILLAGE WATER SUPPLY SYSTEM  
DWG. NO: 9 SCALE: 1/20/50 DATE:  
JAPAN INTERNATIONAL COOPERATION AGENCY

# VILLAGE WATER SUPPLY SYSTEM

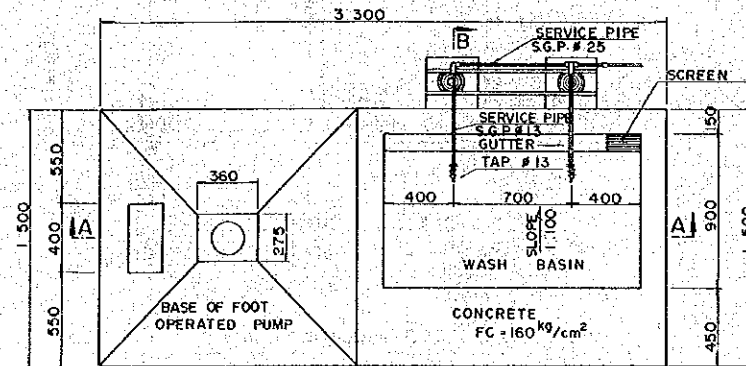
GENERAL PLAN  
S = 1/50



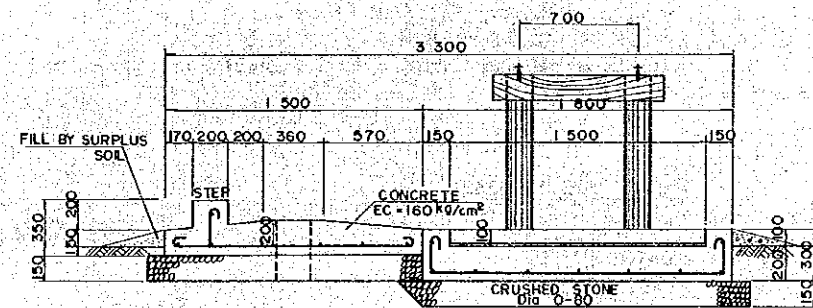
## DETAIL OF FOOT OPERATED PUMP WELL & COMMON TAP

S = 1/20

P L A N



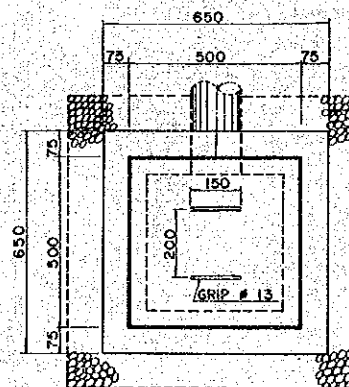
SECTION A - A



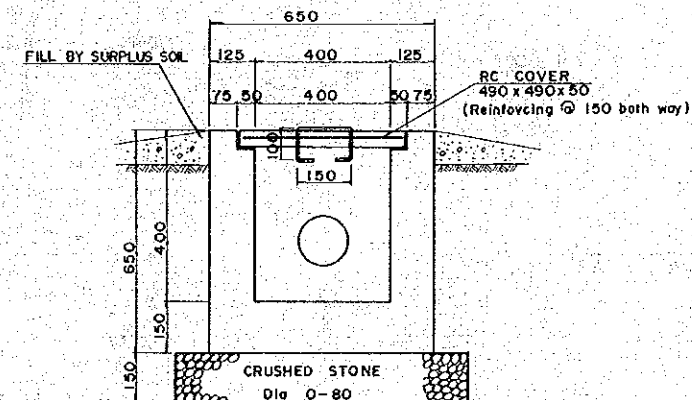
## DETAIL OF CATCH BASIN

S = 1/10

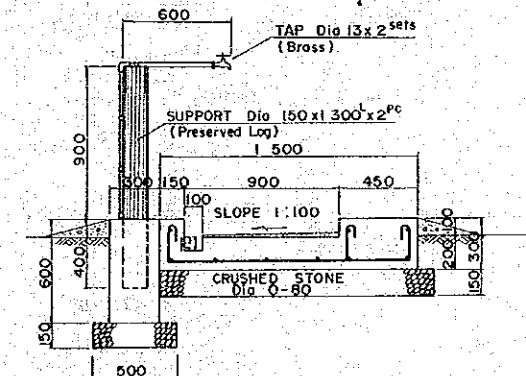
P L A N



P R O F I L E



SECTION B - B



F I J I

BASIC DESIGN STUDY PHASE (II)  
RURAL WATER SUPPLY DEVELOPMENT  
SYSTEM: ELEVATED WATER TANK

DWG. NO: 10 SCALE: 1 / 20 DATE:

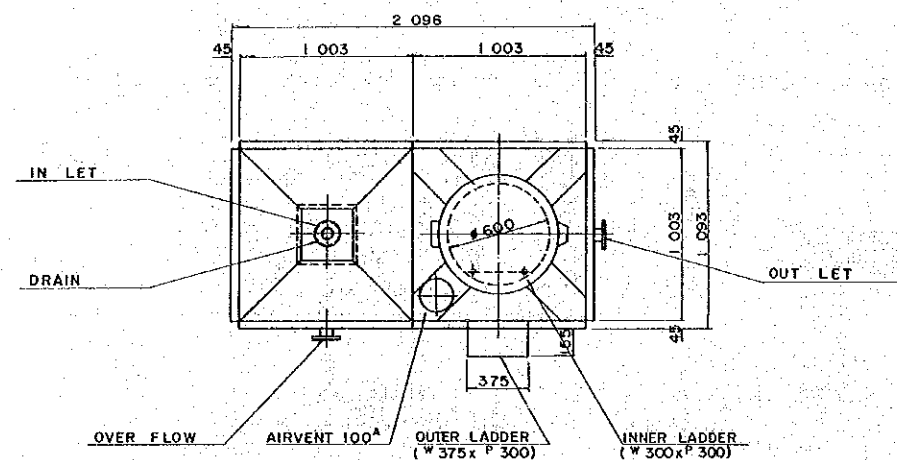
JAPAN INTERNATIONAL COOPERATION AGENCY

# ELEVATED WATER TANK

S = 1/20

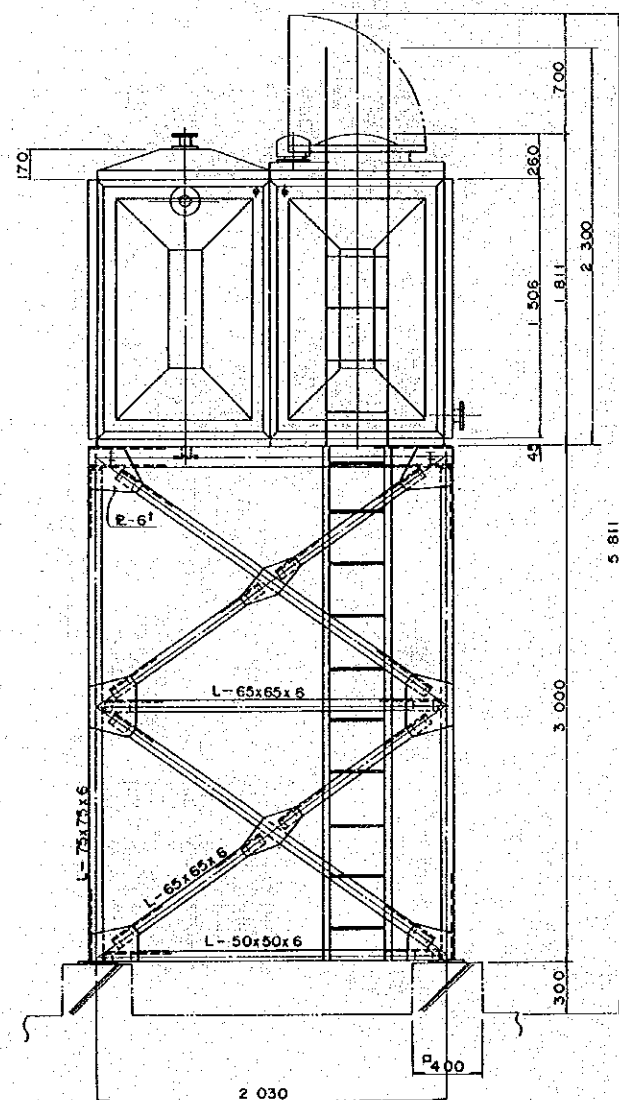
## P L A N

S = 1/20



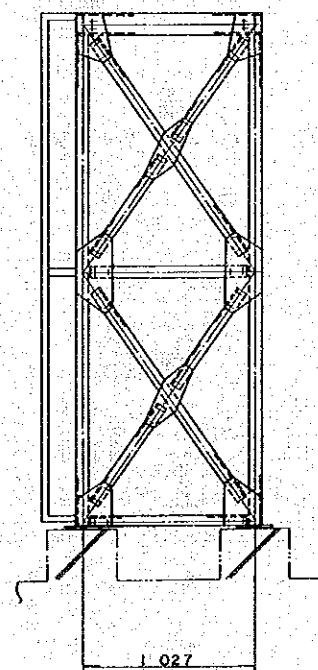
## FRONT VIEW

S = 1/20



## SIDE VIEW

S = 1/20

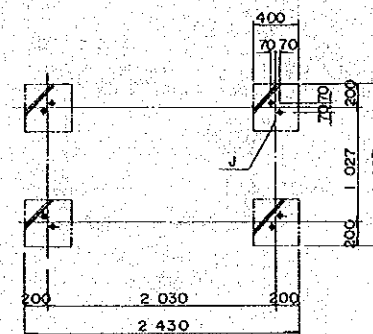


## STEEL FOUNDATION

S = 1/20

STEEL FOUNDATION NOTE	
A	C-125 x 65 x 6
B	L-65 x 65 x 6
K	6-M12 SET BOLTS
J	8-M20 ANCHOR BOLTS

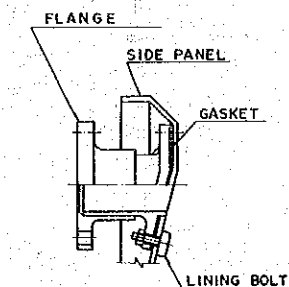
## ANCHOR BOLTS DWG



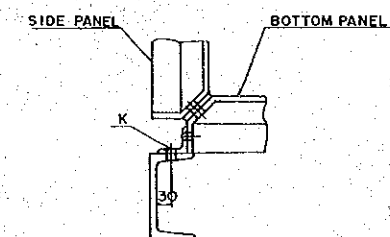
## NOTE

1. TANK COLOUR IS IVORY.
2. THE STEEL FRAMEWORK SHOULD BE CONSTRUCTED WITH CROSSMEMBERS PROPERLY LOCATED AND SHOULD BE CARED ABOUT THE LEVEL.
3. STANDARD NOZZLES ARE MADE OF PVC. (JIS 10 K).
4. STEEL FRAMEWORK IS OUT OF SUPPLY.

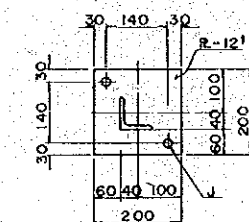
## DETAIL OF NOZZLE



## DETAIL OF ANCHOR SET



## DETAIL OF BASE PLATE



FRP	PANEL TANK
SIZE	(1 x 2 x 1.5 <sup>M</sup> )

# SHOWER HOUSE s = 1/50

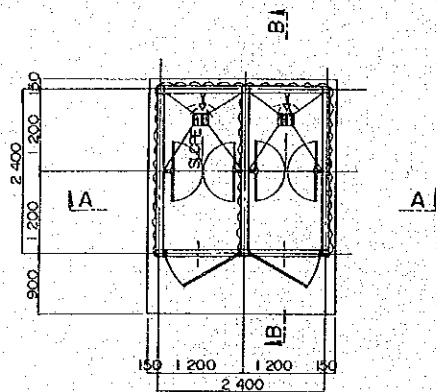
F I J I

BASIC DESIGN STUDY PHASE (II)  
RURAL WATER SUPPLY DEVELOPMENT  
SYSTEM: SHOWER HOUSE

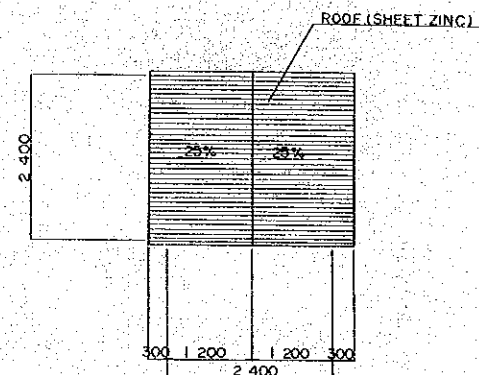
DWG. NO: 11 SCALE: 1/50 DATE:

JAPAN INTERNATIONAL COOPERATION AGENCY

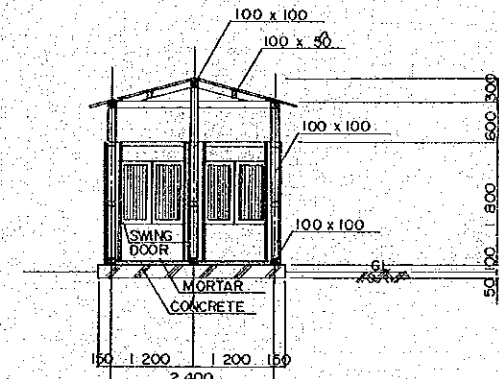
GROUND FLOOR PLAN s = 1/50



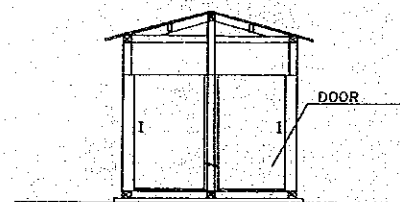
ROOF PLAN s = 1/50



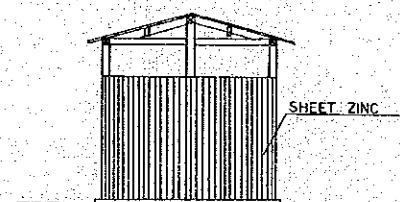
A-A SECTION s = 1/50



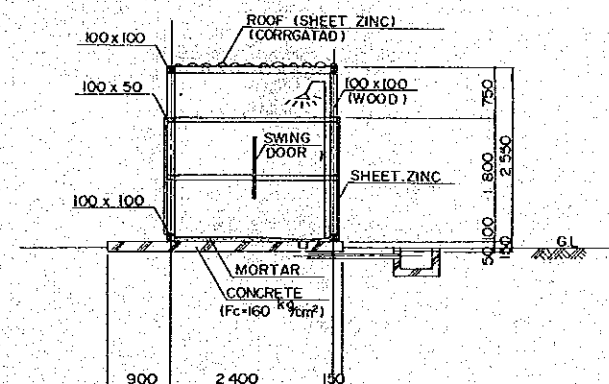
FRONT SIDE VIEW s = 1/50



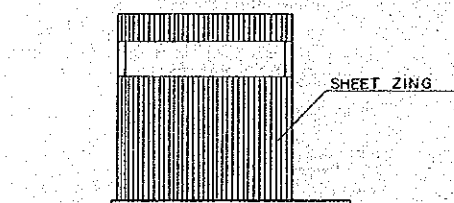
BACK SIDE VIEW s = 1/50



B-B SECTION s = 1/50



LEFT SIDE VIEW s = 1/50



RIGHT SIDE VIEW s = 1/50

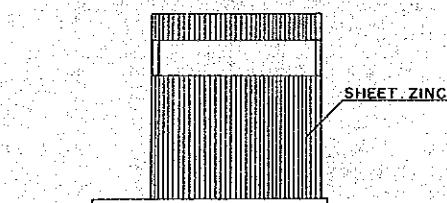


TABLE OF QUANTITIES

CONCRTE	Fc = 160 kg/cm <sup>2</sup>	1.09 m <sup>3</sup>
MORTAR	50 ~ 30 cm	5.06 m <sup>2</sup>
SHEET ZINC (CORRATED)	0.27 cm	9.15 m <sup>2</sup>
SHEET ZINC	0.27 cm	4.10 m <sup>2</sup>
WOOD		0.61 m <sup>3</sup>



