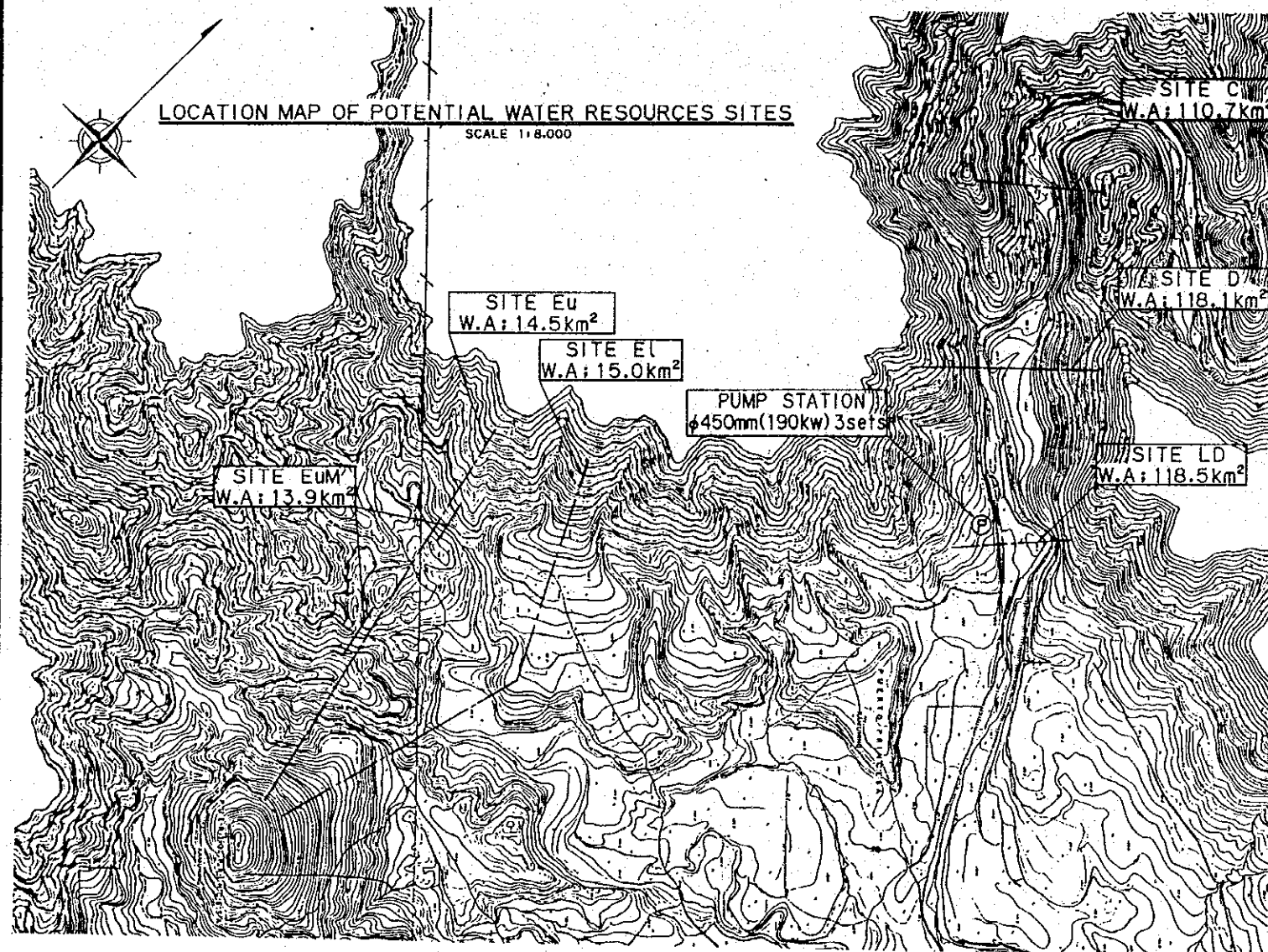


CHAPTER 9. DRAWINGS

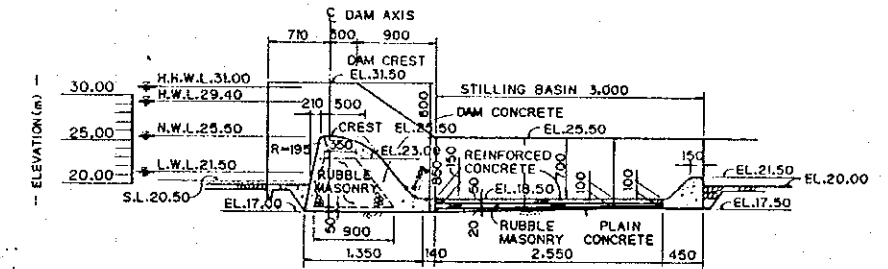
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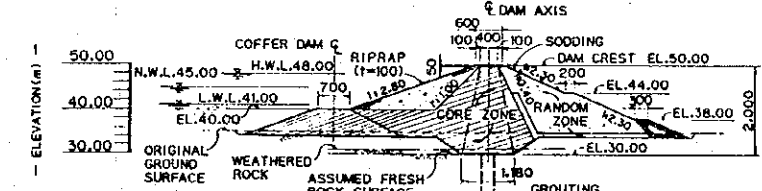
ALTERNATIVE PLAN OF WATER RESOURCES DEVELOPMENT

SITE	SITE Eu	SITE EL	SITE D	SITE C	SITE Eum	SITE LD
(1) INTAKE TYPE	GRAVITY W/RESERVOIR					PUMP W/WEIR
(2) WATER SOURCE	PINAGSALURAN					
a) RIVER NAME	PINAGSALURAN	PINAGSALURAN	INAGAWAN	INAGAWAN	PINAGSALURAN	INAGAWAN
b) WATERSHED AREA (km²)	14.5	15.0	118.1	110.7	13.9	118.5
c) RIVERBED ELEVATION (m)	34.5	29.0	21.2	23.5	34.5	19.5
(3) RESERVOIR						
a) REQUIRED E. STORAGE (MCM)	1.65	1.61	0.20	0.21	0.20	0.20
b) SEDIMENT VOLUME (MCM)	0.44	0.45	2.36	2.21	0.11	—
c) DEAD WATER VOLUME (MCM)	0.44	0.45	2.36	2.21	0.11	0.06
d) H.W.L (MSL) (m)	54.00	46.50	40.00	42.50	45.00	25.50
e) L.W.L (MSL) (m)	45.60	37.80	39.00	42.00	41.00	21.50
f) W. SURFACE AT N.W.L (ha)	29	28	33	31	8	9
(4) MAJOR FEATURE OF DAM/WEIR						
a) DAM TYPE	FILLTYPE DAM	FILLTYPE DAM	CONCRETE DAM	CONCRETE DAM	FILLTYPE DAM	CONCRETE WEIR
b) DAM CREST ELEVATION (MSL) (m)	58.00	50.50	44.00	47.00	50.00	31.50
c) DAM HEIGHT (m)	23.0	25.5	45.0	30.0	20.0	14.5
d) DAM CREST LENGTH (m)	875	868	355	155	239	221
e) DESIGN FLOOD DISCHARGE (c.m.s)	430	440	1,600	1,550	420	990
f) INTAKE FOR PROJECT (c.m.s)	0.84	0.84	0.84	0.84	0.84	—
g) INTAKE FOR E. PROJECT & R. (c.m.s)	—	—	0.45	0.45	—	0.15
(5) MAJOR FEATURE OF PUMP						
a) TYPE OF PUMP	—	—	—	—	—	VERTICAL PUMP
b) DIAMETER (m/m)	—	—	—	—	—	φ 450*3units
c) DESIGN DISCHARGE (c.m.s)	—	—	—	—	—	0.84
d) OUTPUT OF PUMP (KW)	—	—	—	—	—	190x3

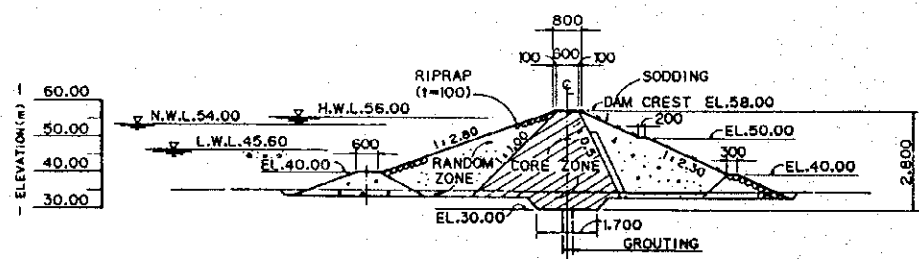
(NOTE) E. STORAGE : EFFECTIVE STORAGE
E. PROJECT & R. : EXISTING PROJECT AND RIVER MAINTENANCE



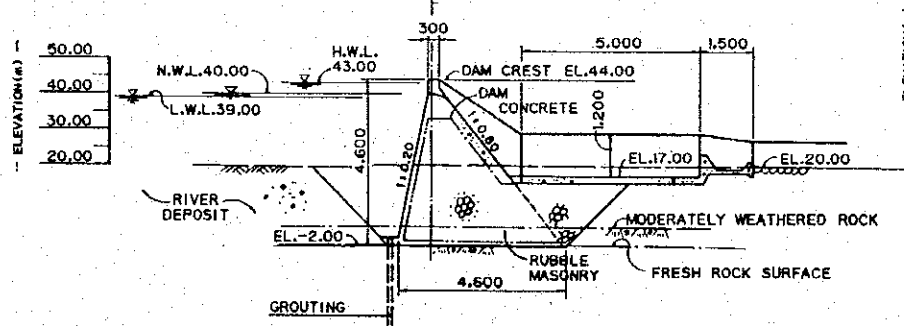
TYPICAL CROSS SECTION OF DAM (SITE LD) SCALE 1:400



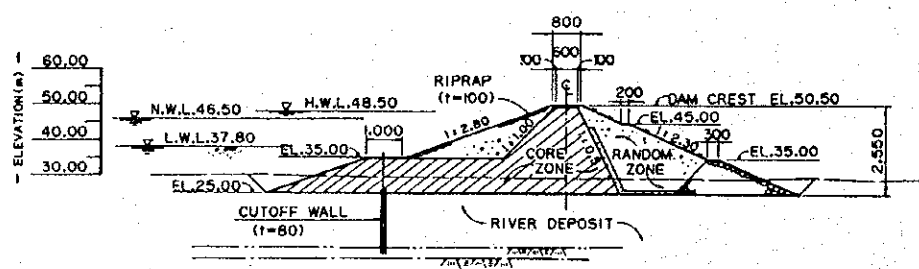
TYPICAL CROSS SECTION OF DAM (SITE EUM) SCALE 1:800



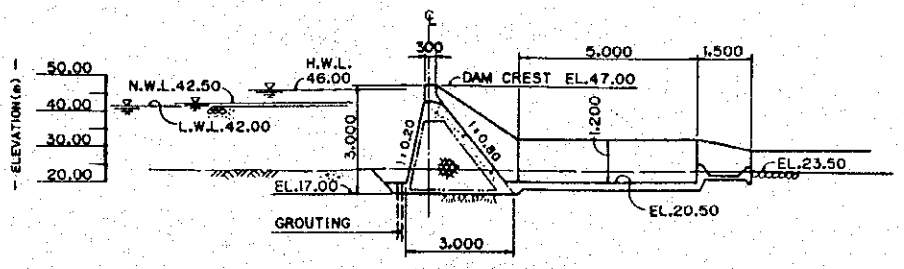
TYPICAL CROSS SECTION OF DAM (SITE Eu) SCALE 1:1,000



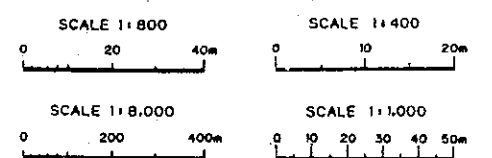
TYPICAL CROSS SECTION OF DAM (SITE D) SCALE 1:1,000



TYPICAL CROSS SECTION OF DAM (SITE EL) SCALE 1:1,000



TYPICAL CROSS SECTION OF DAM (SITE C) SCALE 1:1,000



- NOTE:
1. ALL DIMENSIONS ARE SHOWN IN CENTIMETER UNLESS OTHERWISE SPECIFIED.
 2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).
 3. SITE D IS UNSUITABLE FOR DAM DUE TO DEEP RIVER DEPOSIT.
 4. THE STUDY FOR SITE D, LD AND E IS MADE BASED ON TOPO-MAP SCALED 1:11,000. BUT SITE C, BASED ON TOPO-MAP SCALED 1:4,000.

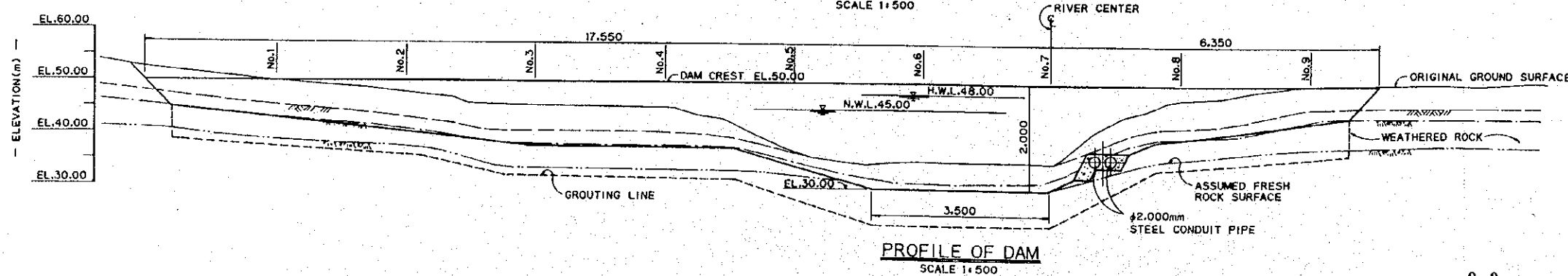
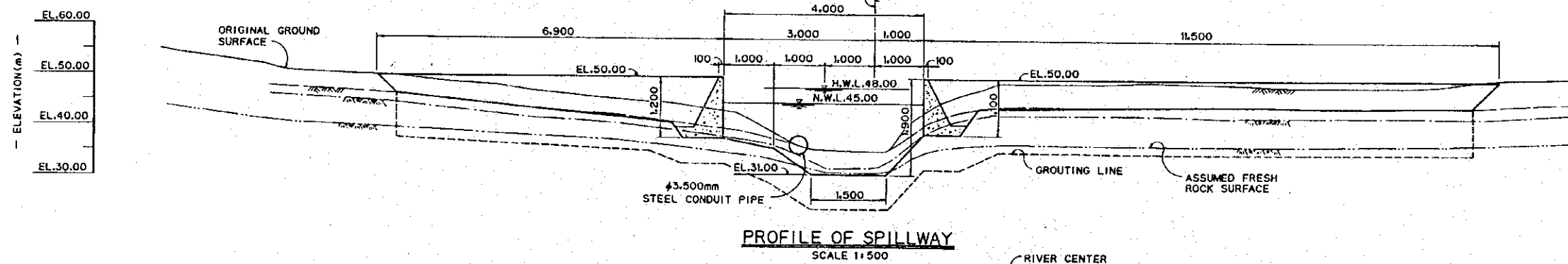
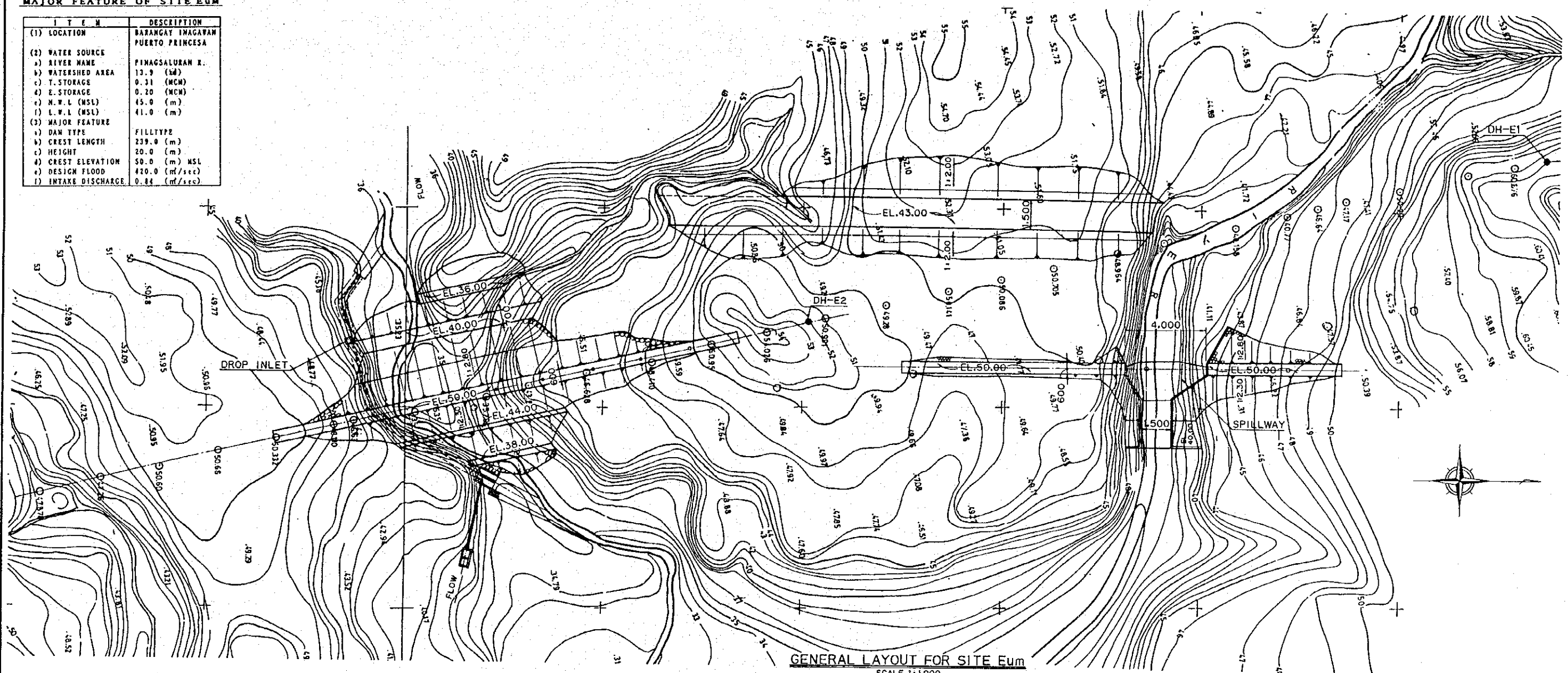
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

WATER RESOURCES DEVELOPMENT ALTERNATIVE WATER RESOURCES

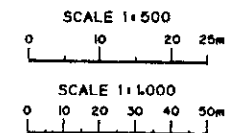


MAJOR FEATURE OF SITE EUM

ITEM	DESCRIPTION
(1) LOCATION	BARANGAY IMAGAWAN PUERTO PRINCESA
(2) WATER SOURCE	PINAGSALURAN R.
(3) RIVER NAME	
(4) WATERSHED AREA	13.9 (km ²)
(5) T. STORAGE	0.31 (MCM)
(6) E. STORAGE	0.20 (MCM)
(7) H.W.L (MSL)	45.0 (m)
(8) L.W.L (MSL)	41.0 (m)
(9) MAJOR FEATURE	
(10) DAM TYPE	FILLTYPE
(11) CREST LENGTH	239.0 (m)
(12) HEIGHT	20.0 (m)
(13) CREST ELEVATION	50.0 (m) MSL
(14) DESIGN FLOOD	420.0 (m ³ /sec)
(15) INTAKE DISCHARGE	0.84 (m ³ /sec)



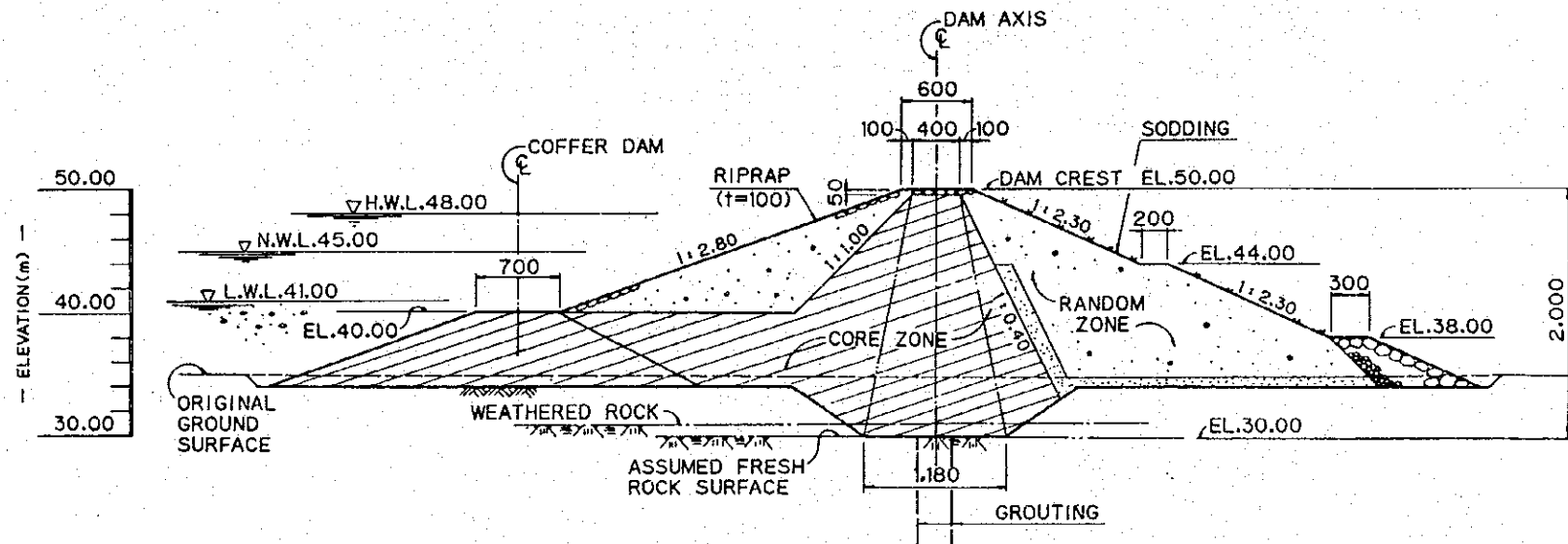
NOTE:
 1. ALL DIMENSIONS ARE SHOWN IN CENTIMETER UNLESS OTHERWISE SPECIFIED.
 2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).



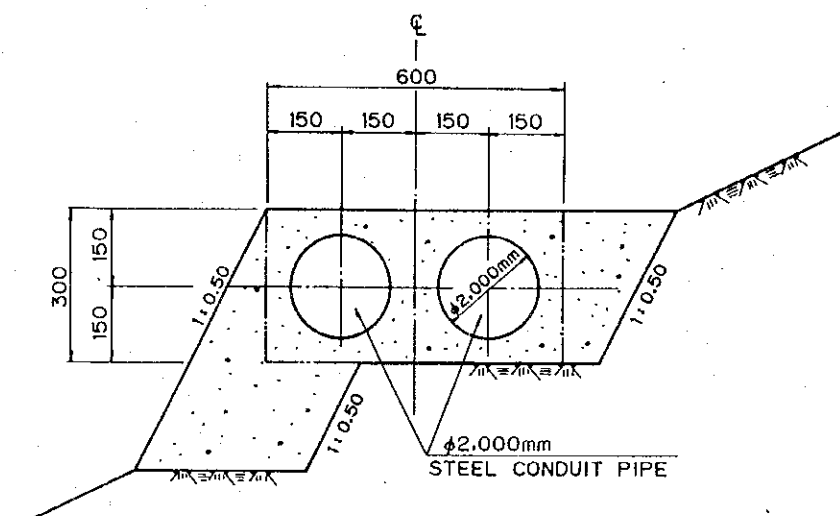
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

WATER RESOURCES DEVELOPMENT SITE EUM (1/2)

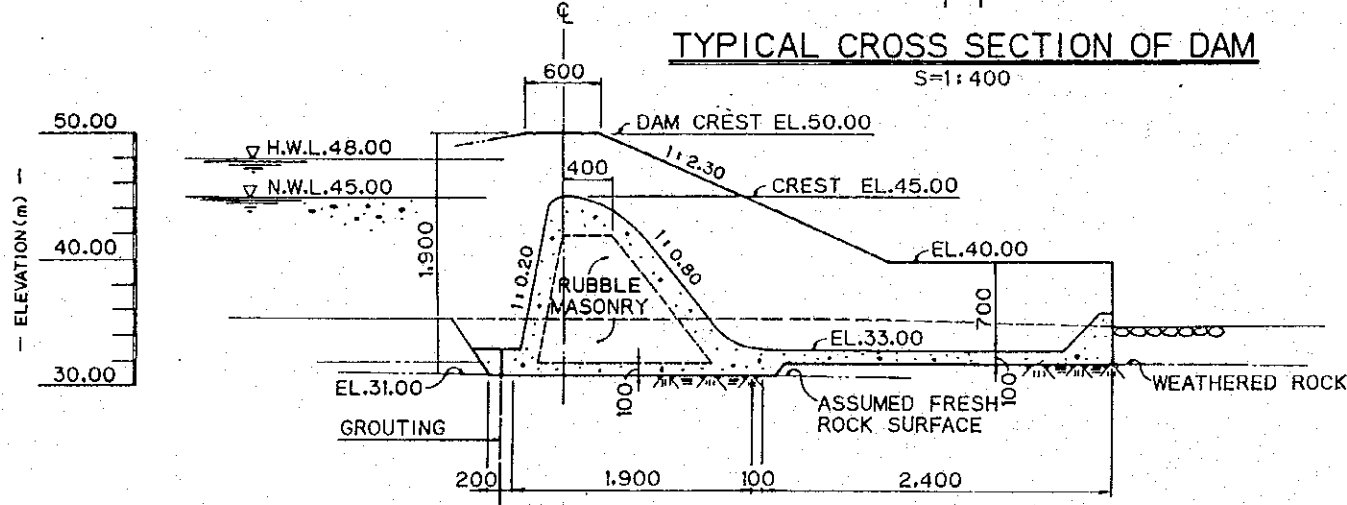




TYPICAL CROSS SECTION OF DAM

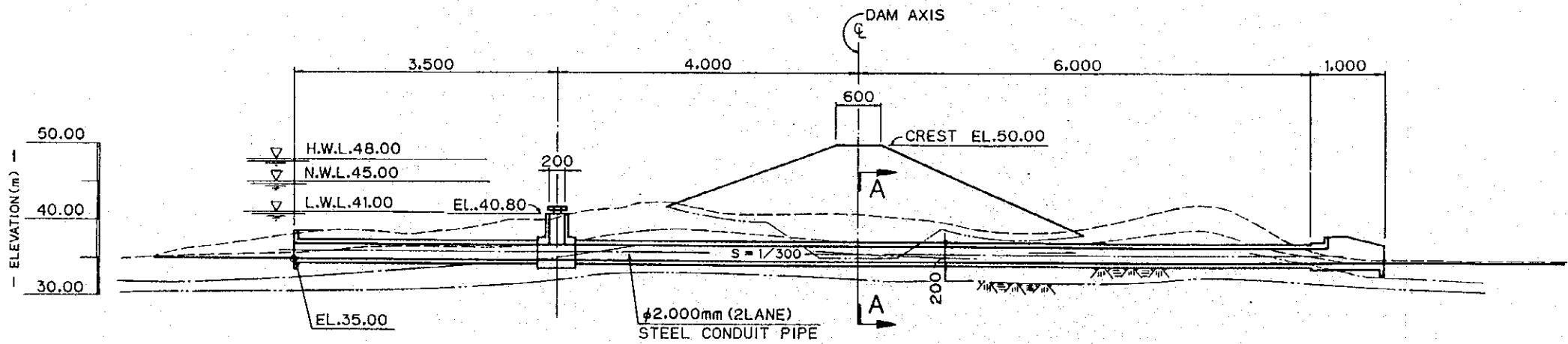
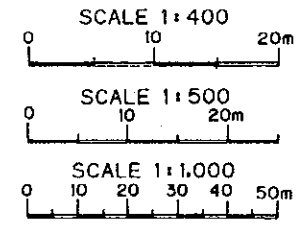


SECTION A-A



TYPICAL CROSS SECTION OF SPILLWAY

NOTE:
 1. ALL DIMENSIONS ARE SHOWN IN CENTIMETER UNLESS OTHERWISE SPECIFIED.
 2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).

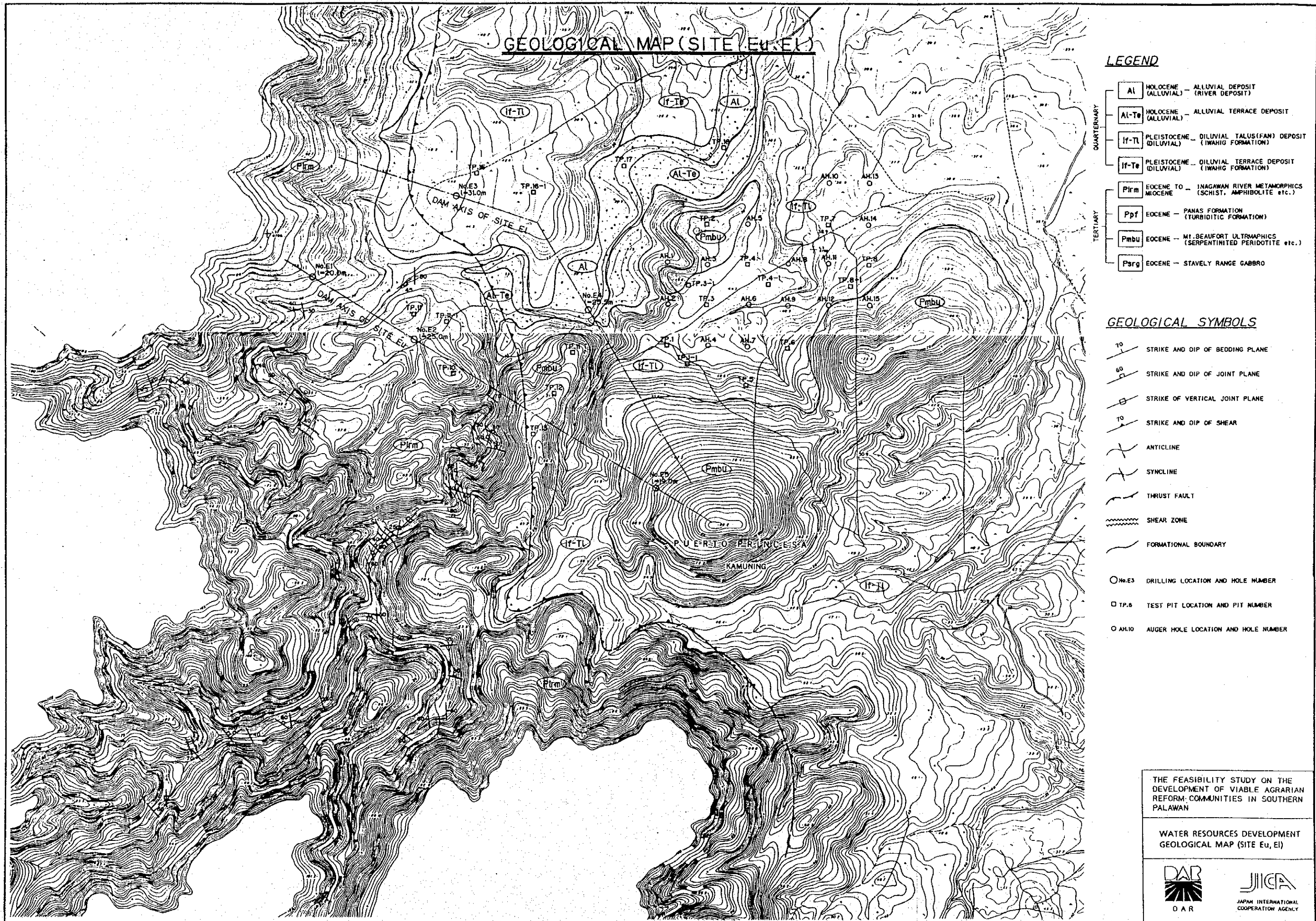


PROFILE OF INTAKE FACILITIES

THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

WATER RESOURCES DEVELOPMENT SITE EuM (2/2)





LEGEND

QUATERNARY	Al	HOLOCENE - ALLUVIAL DEPOSIT (RIVER DEPOSIT)
	Al-Te	HOLOCENE - ALLUVIAL TERRACE DEPOSIT (ALLUVIAL)
	If-Tl	PLEISTOCENE - DILUVIAL TALUS (FAN) DEPOSIT (IWAHIG FORMATION)
	If-Te	PLEISTOCENE - DILUVIAL TERRACE DEPOSIT (IWAHIG FORMATION)
TERTIARY	Pirm	Eocene to MIOCENE - INAGAWAN RIVER METAMORPHICS (SCHIST, AMPHIBOLITE etc.)
	Ppf	Eocene - PANAS FORMATION (TURBIDITIC FORMATION)
	Pmbu	Eocene - M1. BEAUFORT ULTRAMPHICS (SERPENTINITED PERIDOTITE etc.)
	Psg	Eocene - STAVELY RANGE GABBRO

GEOLOGICAL SYMBOLS

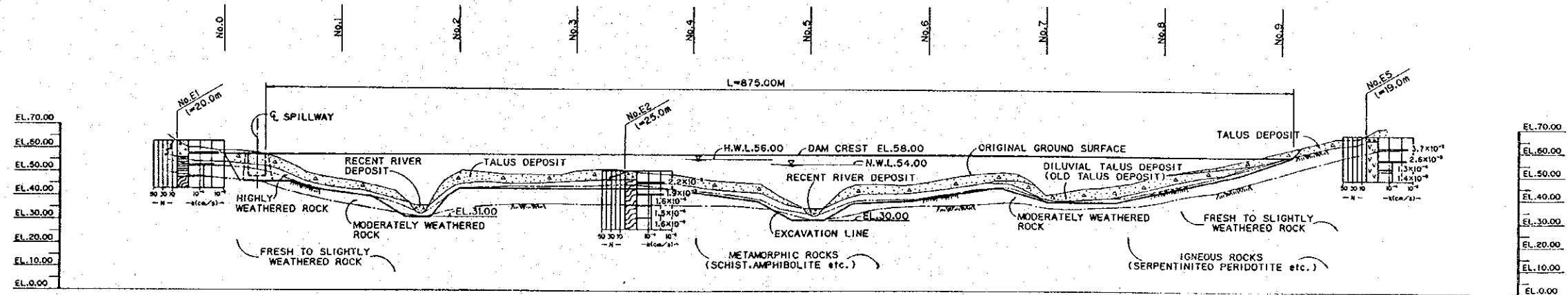
	STRIKE AND DIP OF BEDDING PLANE
	STRIKE AND DIP OF JOINT PLANE
	STRIKE OF VERTICAL JOINT PLANE
	STRIKE AND DIP OF SHEAR
	ANTICLINE
	SYNCLINE
	THRUST FAULT
	SHEAR ZONE
	FORMATIONAL BOUNDARY
	○ No. E3 DRILLING LOCATION AND HOLE NUMBER
	□ TP. 6 TEST PIT LOCATION AND PIT NUMBER
	○ AH. 10 AUGER HOLE LOCATION AND HOLE NUMBER

THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

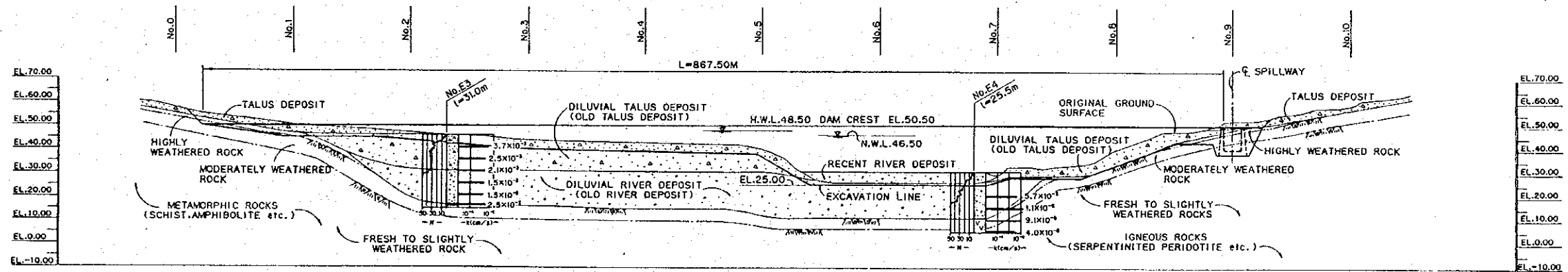
WATER RESOURCES DEVELOPMENT GEOLOGICAL MAP (SITE EU, EI)

DAR

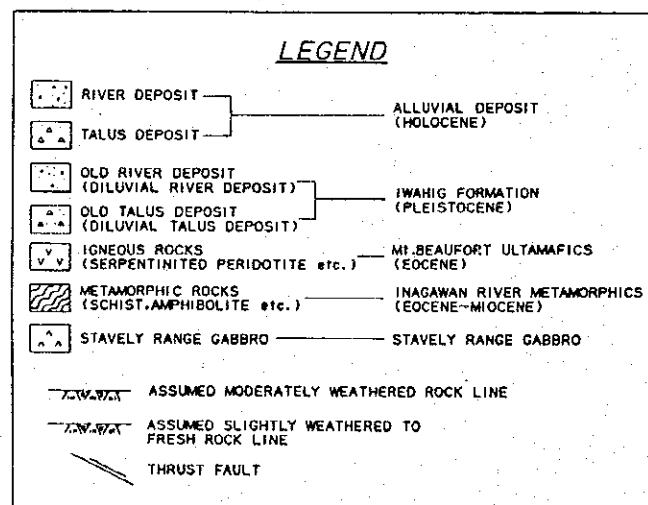
JICA
JAPAN INTERNATIONAL COOPERATION AGENCY



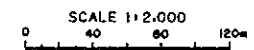
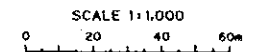
GEOLOGICAL PROFILE SECTION ALONG Eu DAM AXIS
SCALE V=1:1,000, H=1:2,000



GEOLOGICAL PROFILE SECTION ALONG El DAM AXIS
SCALE V=1:1,000, H=1:2,000



NOTE:
1. ALL DIMENSIONS ARE SHOWN IN METER UNLESS OTHERWISE SPECIFIED.
2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).



THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

WATER RESOURCES DEVELOPMENT GEOLOGICAL PROFILE SECTION (SITE Eu, El)



General Plan of Irrigation and Drainage and Farm to Market Road System

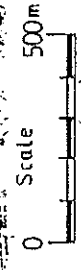
OUTLINE OF CANAL SYSTEM

Main Canal			
NAME	Q (m ³ /s)	L (km)	H (m)
M-1	0.843	0.80	1.20
M-2	0.758	1.09	1.20
M-3	0.787	0.71	1.20
M-4	0.647	0.64	1.20
M-5	0.574	0.33	1.00
M-6	0.312	0.64	0.80
Total		4.21	
Lateral-A			
A-1	0.085	0.44	0.50
A-2	0.066	0.96	0.40
A-3	0.021	0.38	0.30
Total		2.38	
Lateral-B			
B-1	0.073	1.43	0.30
B-2	0.069	0.87	0.30
B-3	0.066	0.78	0.30
B-4	0.025	0.46	0.30
B-5	0.024	0.42	0.30
B-6	0.016	0.27	0.30
Total		4.23	

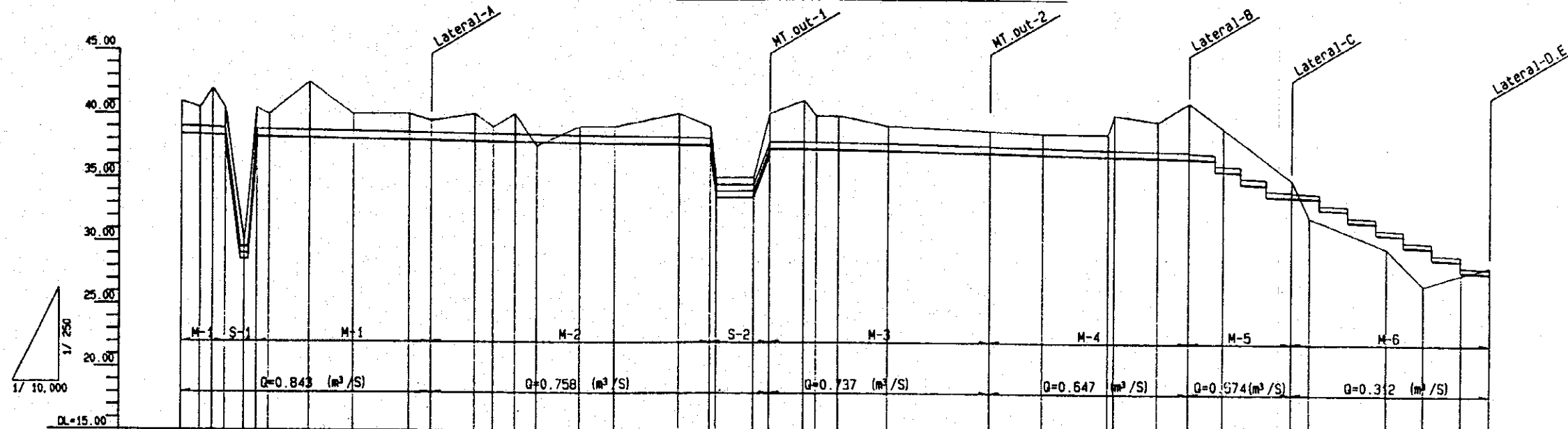
Lateral-C			
NAME	Q (m ³ /s)	L (km)	H (m)
C-1	0.202	0.02	0.70
C-2	0.126	0.48	0.60
C-3	0.117	0.59	0.60
C-4	0.046	0.33	0.50
Total		1.42	
Lateral-D			
D-1	0.071	0.34	0.50
D-2	0.060	0.15	0.50
Total		0.49	
Lateral-E			
E-1	0.218	0.80	0.80
E-2	0.181	0.27	0.70
E-3	0.126	0.42	0.80
E-4	0.048	0.51	0.50
Total		2.00	

LEGEND

	MAIN ROAD (L.R.)
	LATERAL ROAD (L.R.)
	MAIN CANAL
	LATERAL CANAL
	MAIN DRAINAGE
	TURN OUT

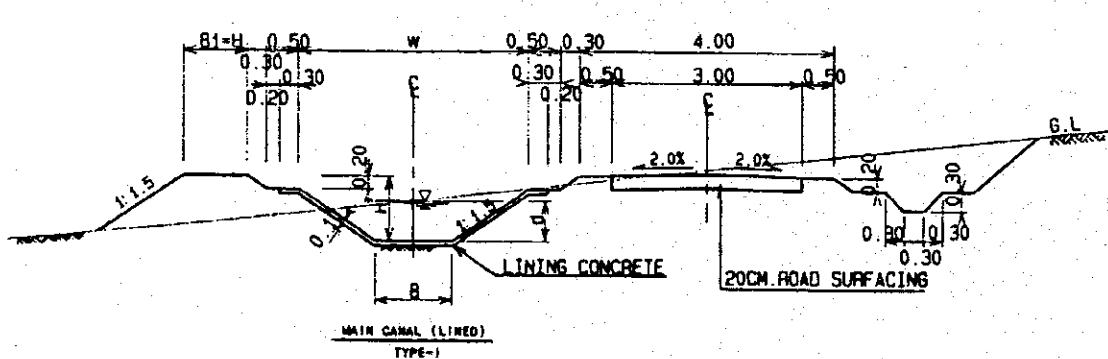


PROFILE OF MAIN CANAL



STATION	LENGTH	DISTANCE	N.G. EL.	PLAN	
				C.B. EL.	M.S. EL.
STA. 0	0.00	0.00	41.00	39.0	1/2000
0+60	60.00	60.00	40.50	38.9	1/630
0+140	80.00	140.00	40.50	38.8	
0+240	100.00	240.00	40.50	38.8	
0+410	130.00	410.00	42.50		
0+730	320.00	730.00	40.00	38.5	1/2000
0+800	70.00	800.00	39.50		
0+940	140.00	940.00	40.00		
STA. 1	50.00	1000.00	39.00		
1+280	280.00	1280.00	39.00		
1+390	110.00	1390.00	39.00		
1+700	310.00	1700.00	39.00	38.0	1/780
1+890	190.00	1890.00	40.00	37.8	
STA. 2	110.00	2000.00	41.00		
2+40	40.00	2040.00	39.80		
2+110	70.00	2110.00	39.80		
2+270	160.00	2270.00	39.00		
2+600	330.00	2600.00	38.70	37.4	1/2000
2+770	170.00	2770.00	38.50		
STA. 3	210.00	2980.00	38.80		
3+140	140.00	3140.00	39.50		
3+240	100.00	3240.00	41.00	37.1	
3+350	110.00	3350.00	39.00		
3+570	220.00	3570.00	35.00	34.1	1/1000
3+880	310.00	3880.00	29.50		
STA. 4	120.00	4000.00	26.70		
4+120	120.00	4120.00	27.50		
4+210	90.00	4210.00	28.20	28.0	

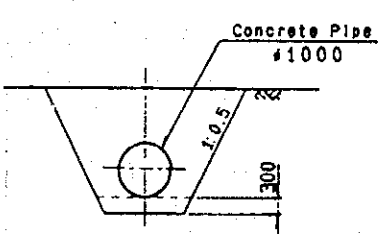
TYPICAL CANAL SECTIONS



DIMENSION TABLE

Main Canal		Q	n	I	B	d	H	V
TYPE	SECTION	(m³/S)			(m)	(m)	(m)	(m/S)
I	M-1	0.843	0.018	1/2000	1.20	0.61	1.00	0.65
	M-2	0.758	0.018	1/2000	1.20	0.58	0.90	0.63
	M-3	0.737	0.018	1/2000	1.20	0.57	0.90	0.63
	M-4	0.647	0.018	1/2000	1.20	0.53	0.90	0.61
	M-5	0.574	0.018	1/1000	1.00	0.45	0.80	0.76
	M-6	0.312	0.018	1/1000	0.80	0.36	0.70	0.66

TYPICAL SYPHON SECTIONS

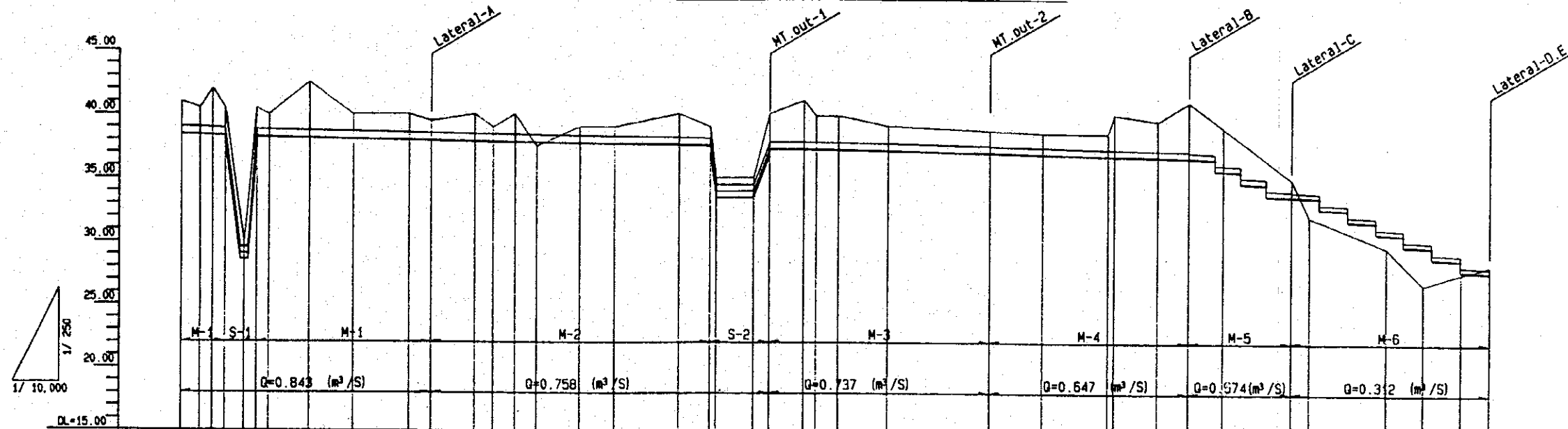


THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

Profile of Irrigation Canal

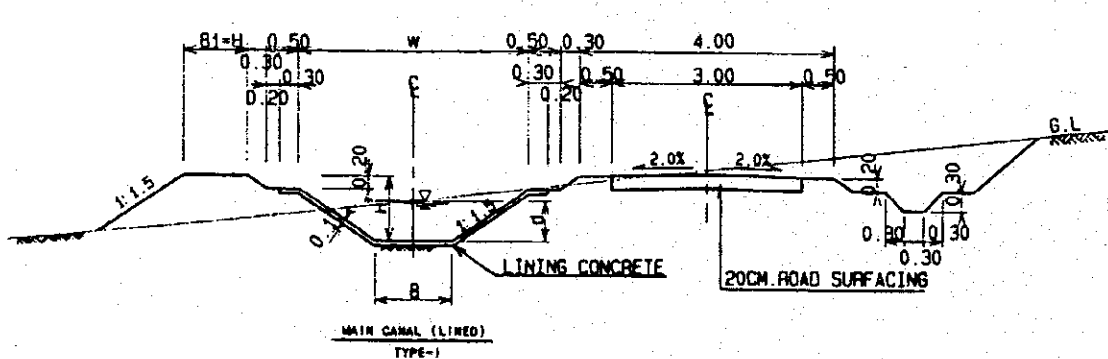


PROFILE OF MAIN CANAL



STATION	LENGTH	DISTANCE	N.G. EL.	PLAN	
				C.B. EL.	M.S. EL.
STA. 0	0.00	0.00	41.00	39.0	1/2000
0+60	60.00	60.00	40.50	38.9	1/630
0+140	80.00	140.00	40.50	38.8	
0+240	100.00	240.00	40.50	38.8	
0+410	130.00	410.00	42.50		
0+730	320.00	730.00	40.00	38.5	1/2000
0+800	70.00	800.00	39.50		
0+940	140.00	940.00	40.00		
STA. 1	50.00	1000.00	39.00		
1+280	280.00	1280.00	39.00		
1+390	110.00	1390.00	39.00		
1+700	310.00	1700.00	39.00	38.0	1/780
1+890	190.00	1890.00	40.00	37.8	
STA. 2	110.00	2000.00	41.00		
2+40	40.00	2040.00	39.80		
2+110	70.00	2110.00	39.80		
2+270	160.00	2270.00	39.00		
2+600	330.00	2600.00	38.70	37.4	1/2000
2+770	170.00	2770.00	38.50		
STA. 3	210.00	2980.00	38.80		
3+140	140.00	3140.00	39.50		
3+240	100.00	3240.00	41.00	37.1	
3+350	110.00	3350.00	39.00		
3+570	220.00	3570.00	35.00	34.1	1/1000
3+880	310.00	3880.00	29.50		
STA. 4	120.00	4000.00	26.70		
4+120	120.00	4120.00	27.50		
4+210	90.00	4210.00	28.20	28.0	

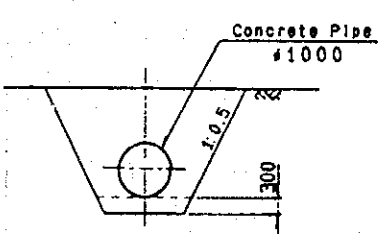
TYPICAL CANAL SECTIONS



DIMENSION TABLE

Main Canal		Q	n	I	B	d	H	V
TYPE	SECTION	(m³/S)			(m)	(m)	(m)	(m/S)
I	M-1	0.843	0.018	1/2000	1.20	0.61	1.00	0.65
	M-2	0.758	0.018	1/2000	1.20	0.58	0.90	0.63
	M-3	0.737	0.018	1/2000	1.20	0.57	0.90	0.63
	M-4	0.647	0.018	1/2000	1.20	0.53	0.90	0.61
	M-5	0.574	0.018	1/1000	1.00	0.45	0.80	0.76
	M-6	0.312	0.018	1/1000	0.80	0.36	0.70	0.66

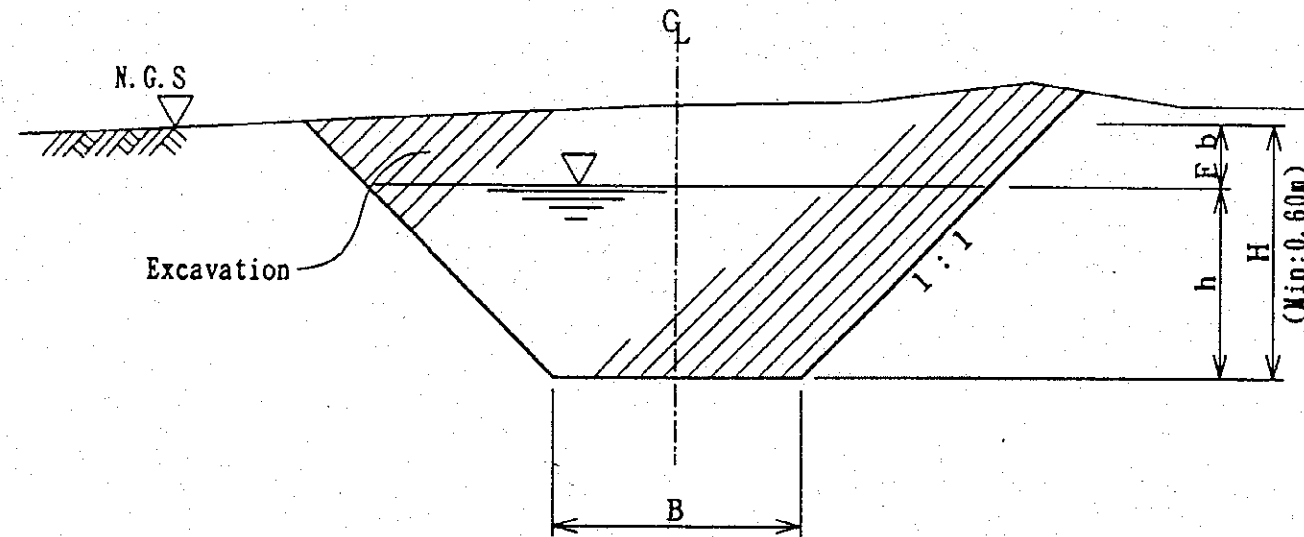
TYPICAL SYPHON SECTIONS



THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

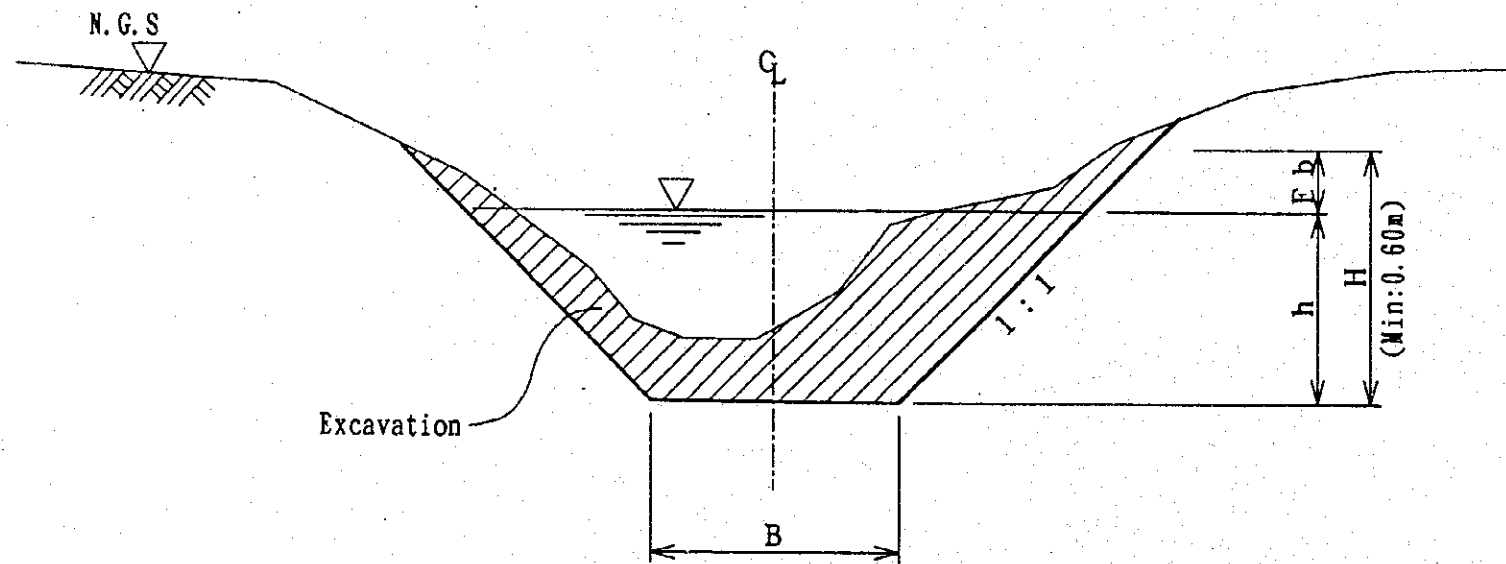
Profile of Irrigation Canal





Typical Section of New Canal

NAME	L (km)	Q (m ³ /s)	V (m/s)	B (m)	h (m)	H (m)	Fb (m)
A-1	0.36	0.165	0.48	0.50	0.39	0.60	0.21
A-2	0.58	0.275	0.58	0.60	0.45	0.60	0.15
A-3	0.16	0.635	0.70	1.00	0.57	0.80	0.23
B-1	0.30	0.155	0.98	0.30	0.28	0.60	0.32
B-2	0.38	0.335	0.79	0.60	0.42	0.60	0.18



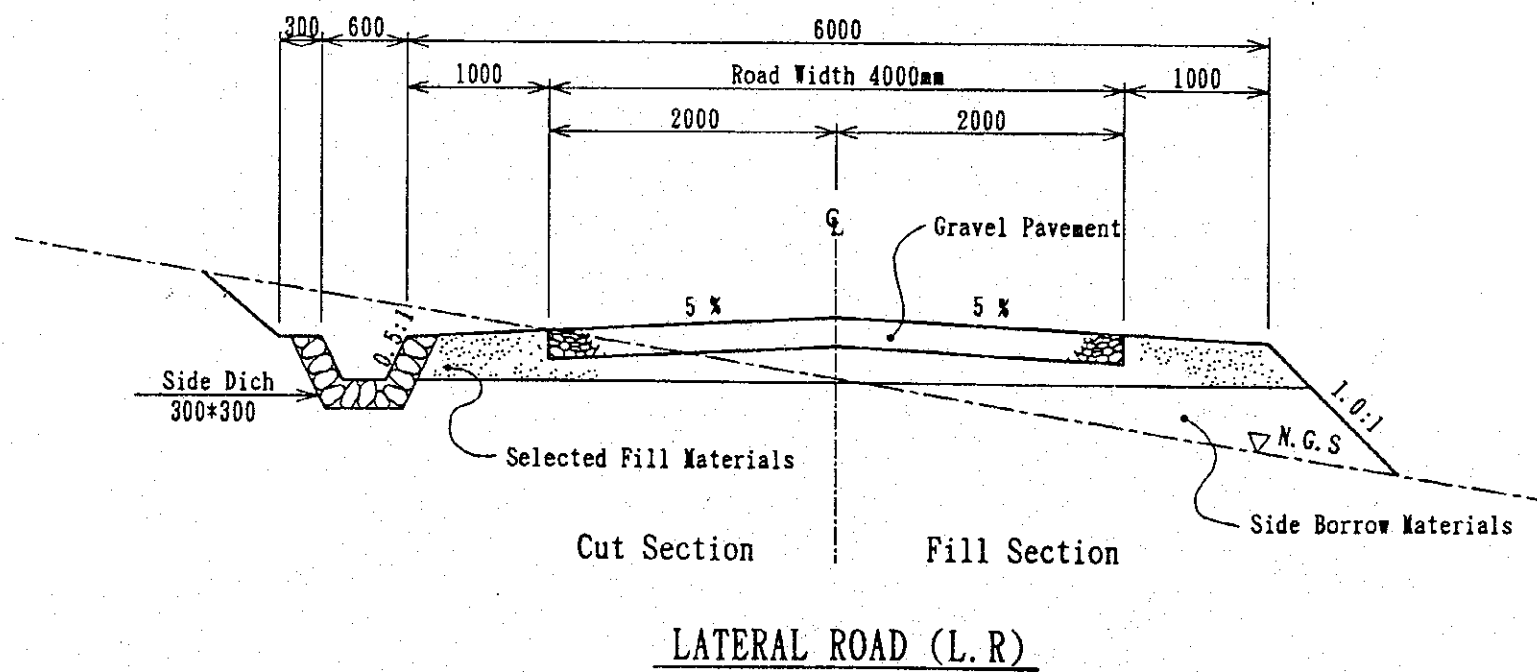
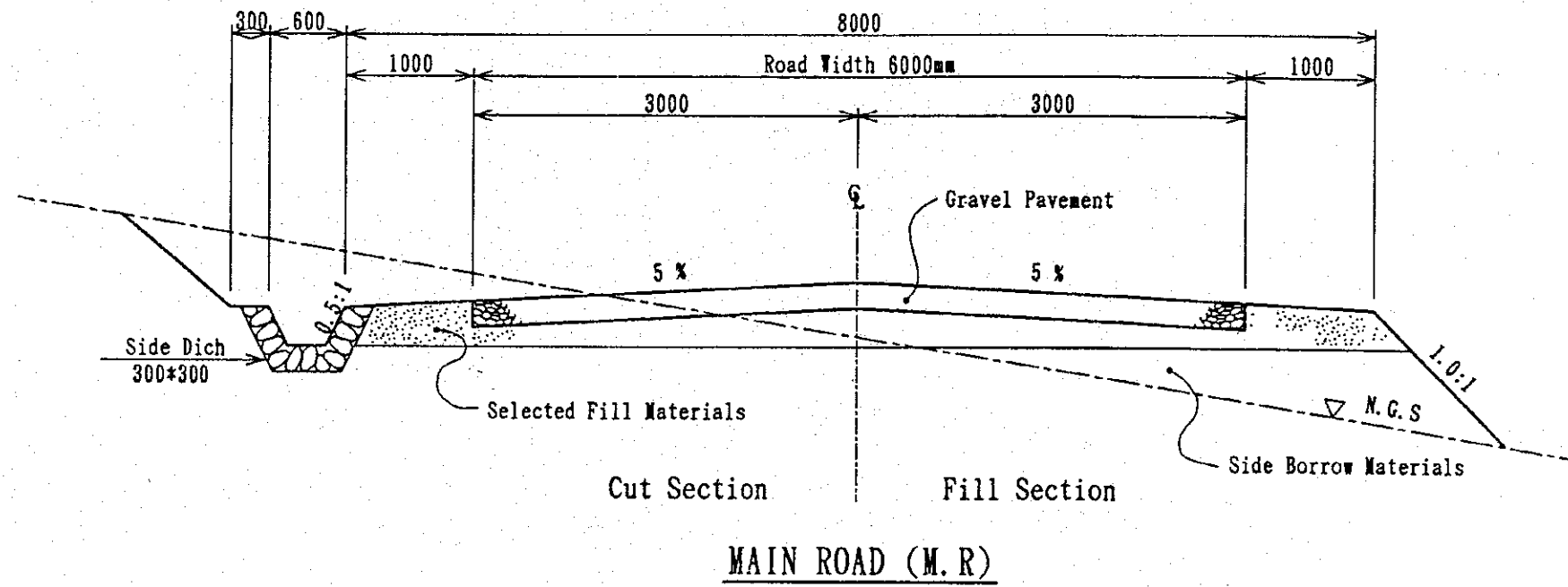
Typical Section of Excavated Creek

THE FEASIBILITY STUDY ON THE
DEVELOPMENT OF VIABLE AGRARIAN
REFORM COMMUNITIES IN SOUTHERN
PALAWAN

Typical Drainage Canal Section



TYPICAL CROSS SECTION OF FARM TO MARKET ROAD



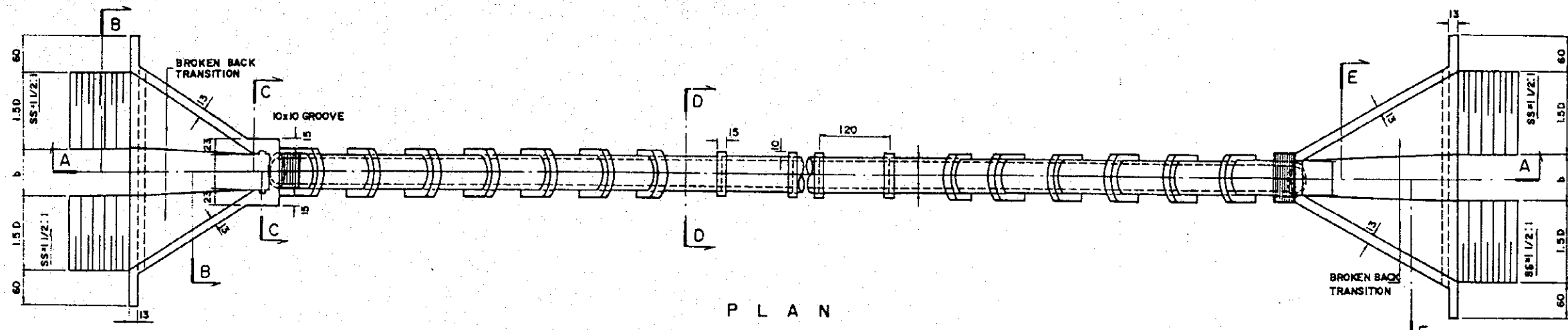
OUTLIN OF ROAD SYSTEM

Main Load			
NAME	Length (km)	Total Width (m)	Effective Width (m)
M. R-1	3.50	8.00	6.00
-2	1.28	8.00	6.00
-3	3.50	8.00	6.00
-4	3.50	8.00	6.00
Total	11.78		
Lateral Load			
L. R-1	1.74	6.00	4.00
-2	1.79	6.00	4.00
-3	1.67	6.00	4.00
-4	2.00	6.00	4.00
-5	1.00	6.00	4.00
-6	1.26	6.00	4.00
-7	0.70	6.00	4.00
-8	3.50	6.00	4.00
-9	1.90	6.00	4.00
-10	1.70	6.00	4.00
-11	1.40	6.00	4.00
-12	1.15	6.00	4.00
-13	0.94	6.00	4.00
-14	1.60	6.00	4.00
-15	1.80	6.00	4.00
-16	0.56	6.00	4.00
-17	1.20	6.00	4.00
-18	1.90	6.00	4.00
-19	1.35	6.00	4.00
Total	29.16		

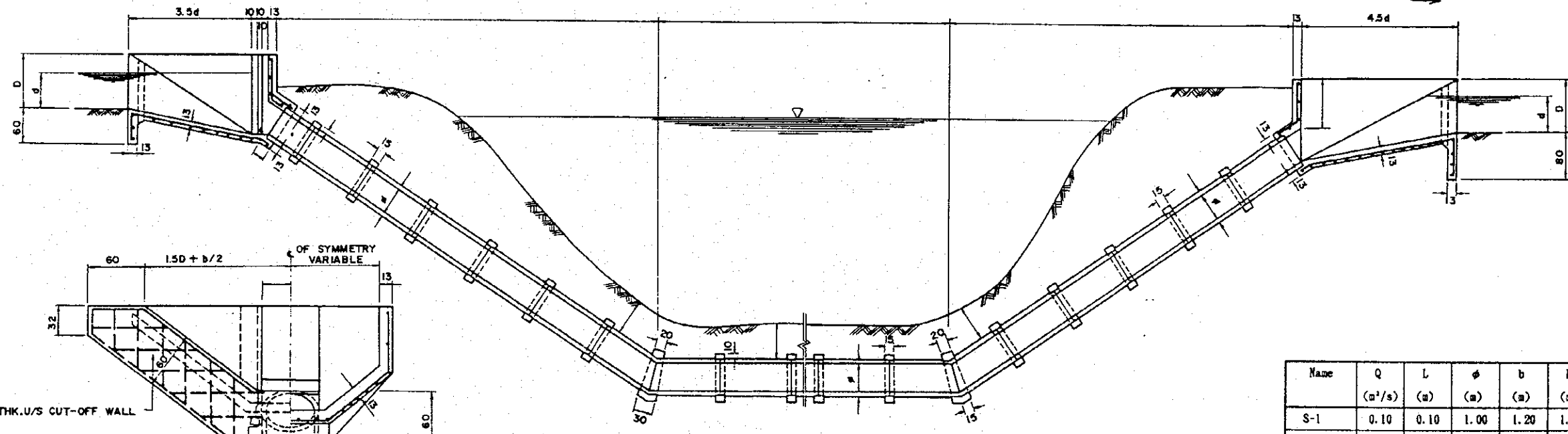
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

Typical Farm to Market Road Section

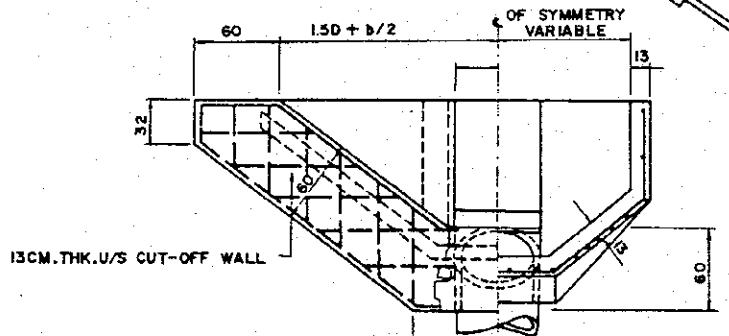




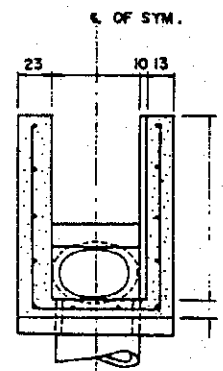
P L A N



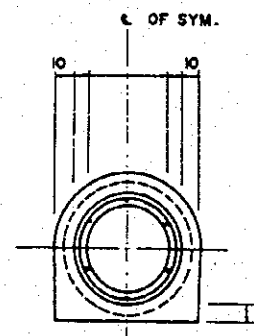
LONGITUDINAL SECTION "A - A"



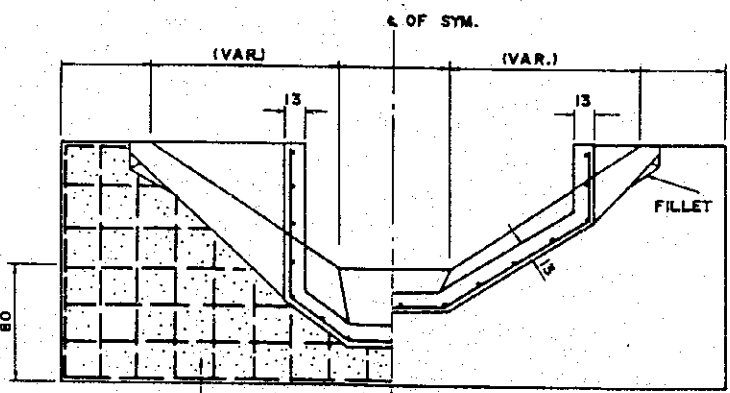
SECTION "B - B"



SECTION "C - C"



SECTION "D - D"



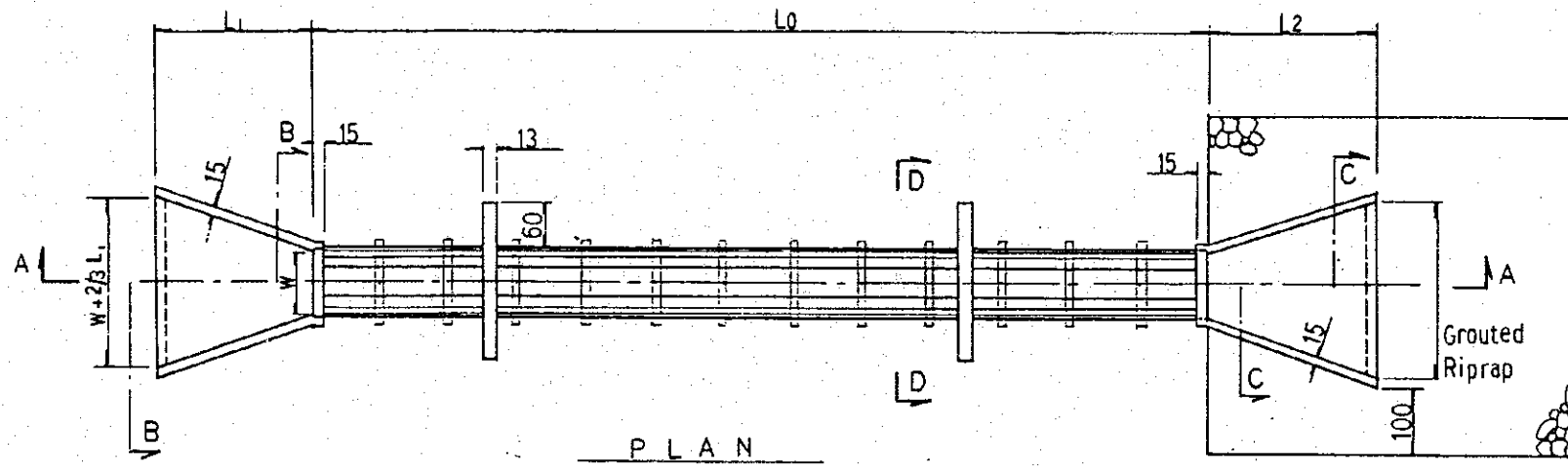
SECTION "E - E"

Name	Q (m ³ /s)	L (m)	φ (m)	b (m)	D (m)
S-1	0.10	0.10	1.00	1.20	1.00
S-2	0.10	0.19	1.00	1.20	0.90

THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

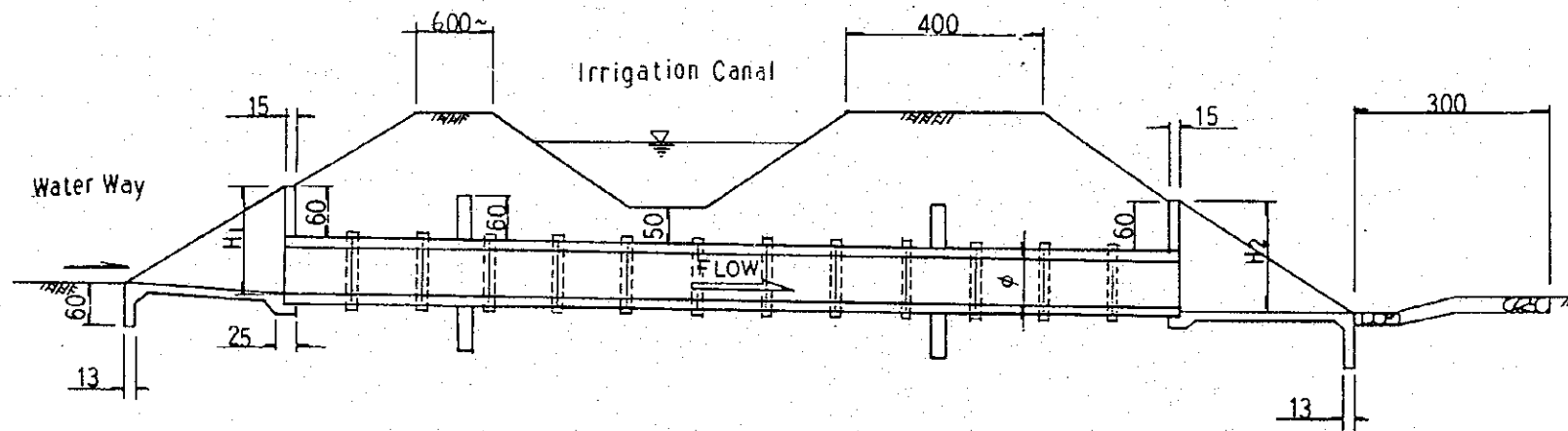
Canal R. C. Pipe Siphon



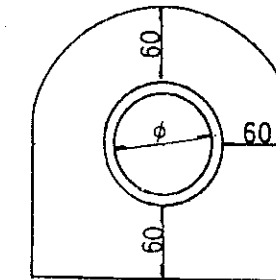


PLAN
SCALE 1:100

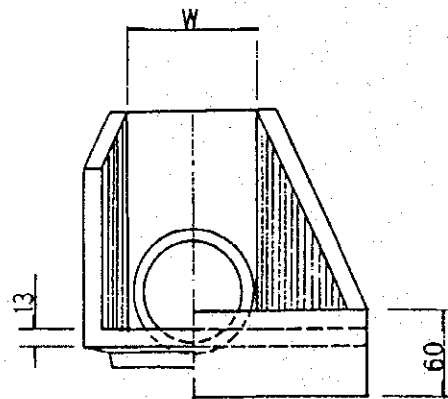
Discharge (m ³ /sec)	φ (m)	L0 (m)	L1, L2 (m)	H1, H2 (m)	V (m)
0~0.30	0.60		1.95	1.30	0.80
~0.60	0.80		2.25	1.50	1.00
~1.1	1.00		2.55	1.70	1.30
~2.2	1.00*2		2.55	1.70	2.50



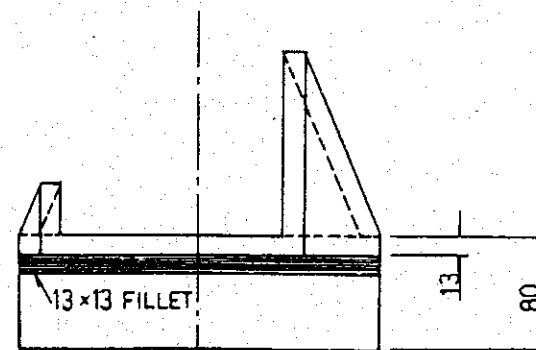
SECTION A-A
SCALE 1:100



SECTION D-D
SCALE 1:60



SECTION B-B
SCALE 1:60



SECTION C-C
SCALE 1:60

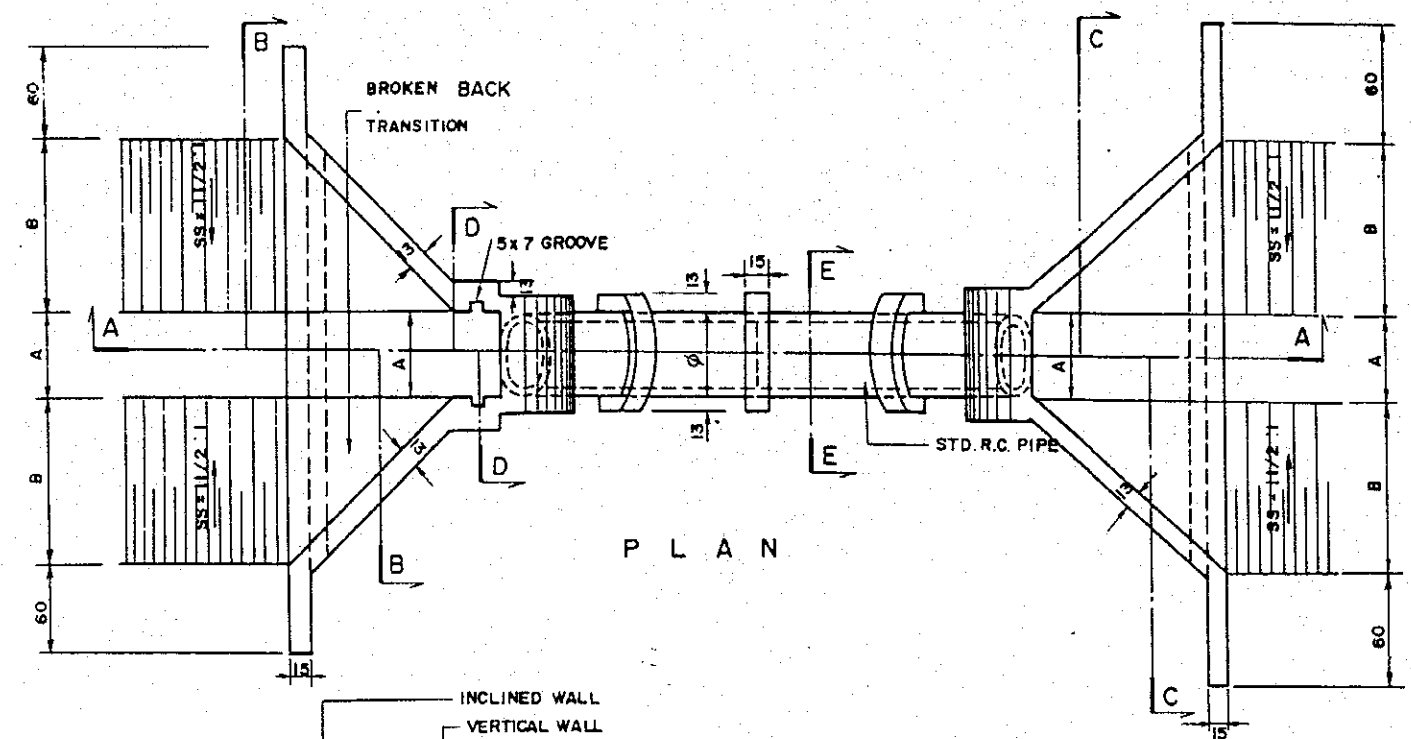
THE FEASIBILITY STUDY ON THE
DEVELOPMENT OF VIABLE AGRARIAN
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Drainage Crossing

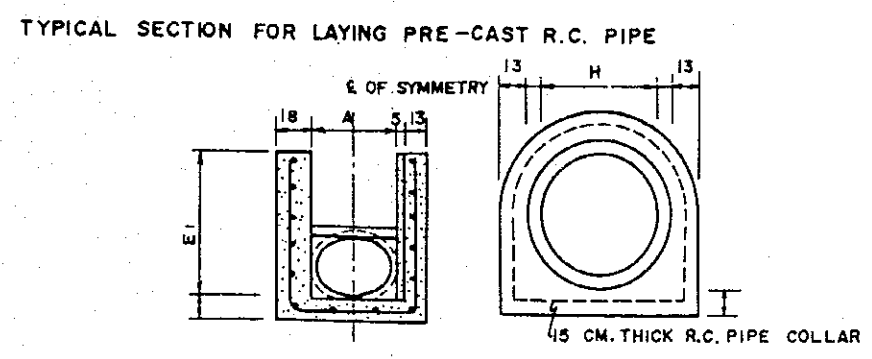


DAR

JAPAN INTERNATIONAL
COOPERATION AGENCY

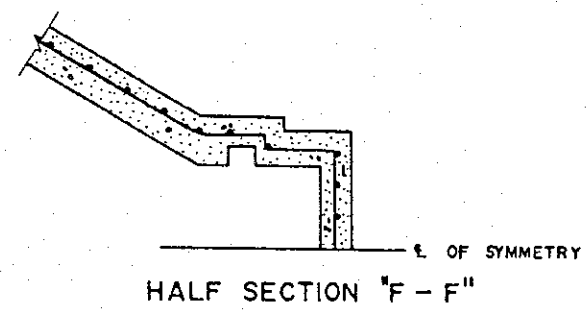


P L A N

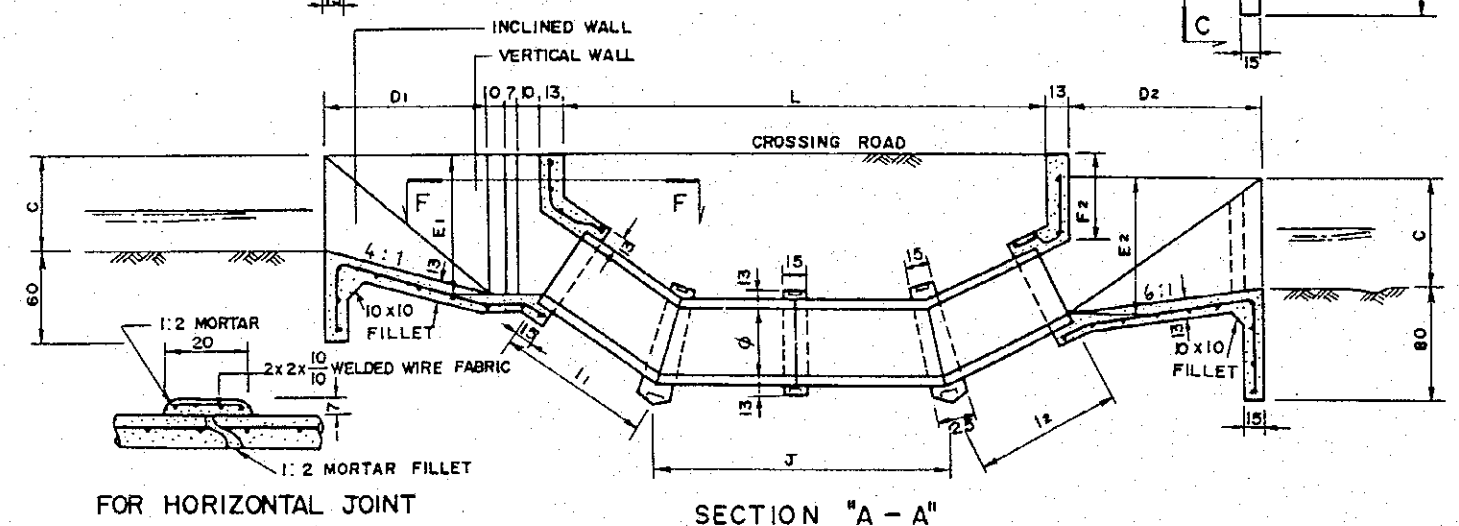


SECTION "D-D"

SECTION "E-E"

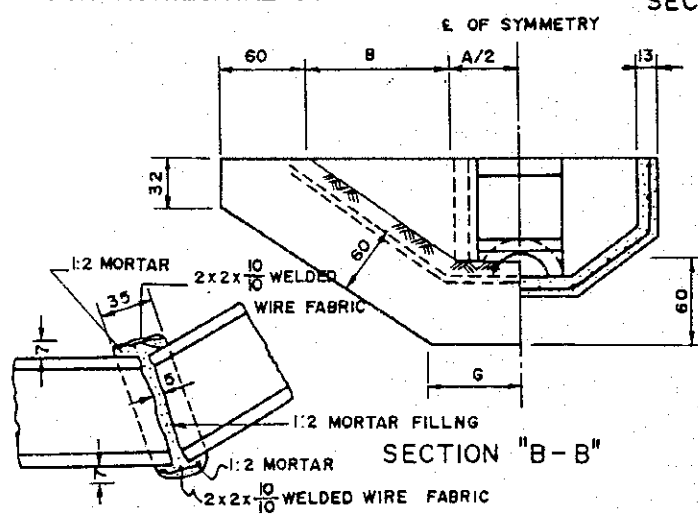


HALF SECTION "F-F"



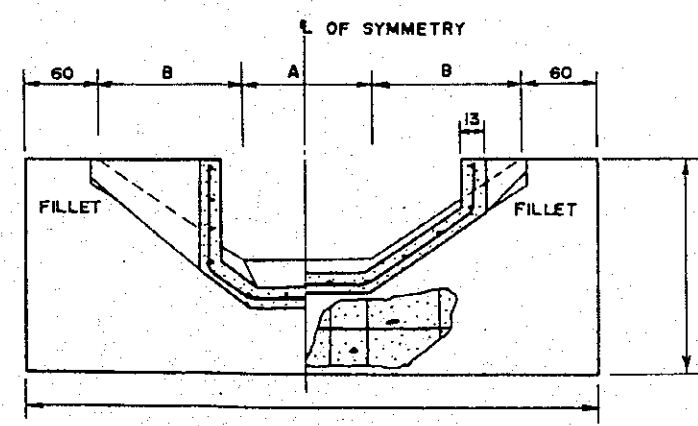
SECTION "A-A"

FOR HORIZONTAL JOINT



SECTION "B-B"

ALTERNATE PIPE COLLARS



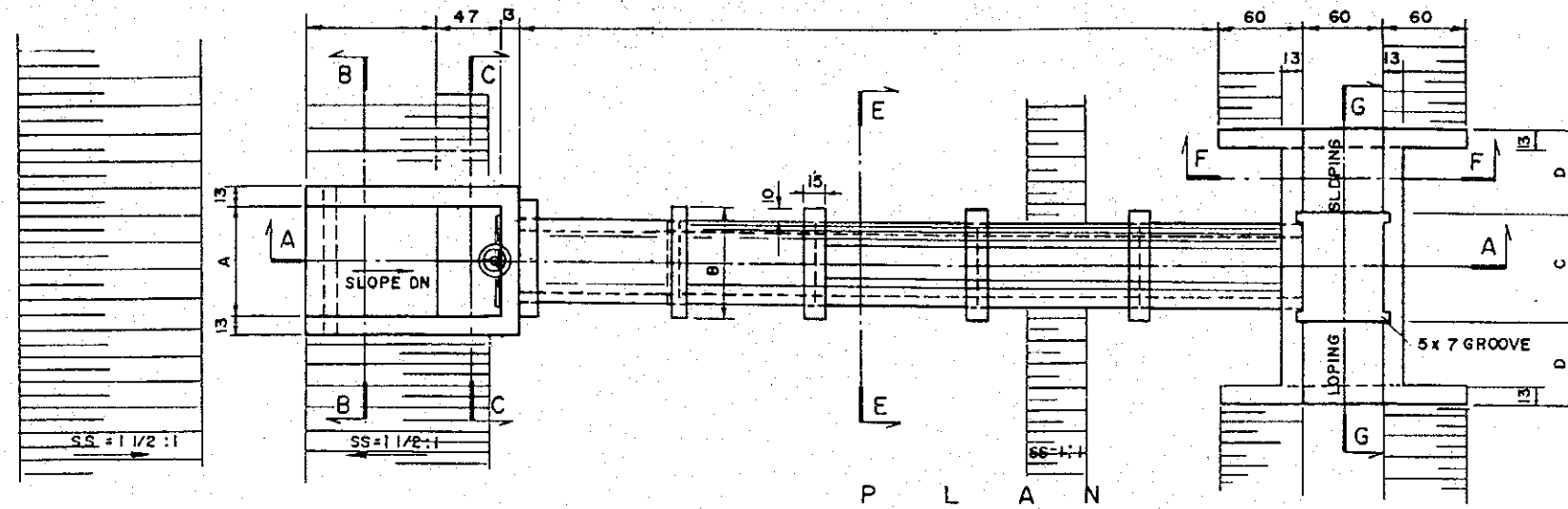
SECTION "C-C"

Discharge (m ³ /sec)	ϕ (m)	L (m)	A (m)	B (m)	C (m)
0~0.20	0.30				
~0.40	0.45				
~0.60	0.60				
~0.90	0.80				

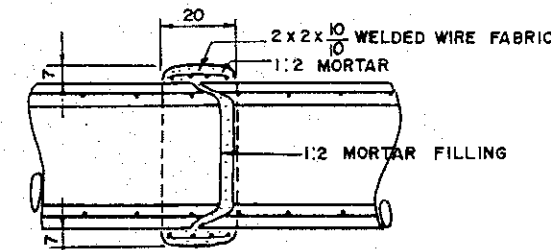
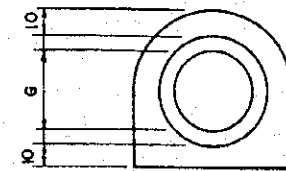
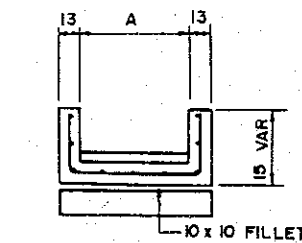
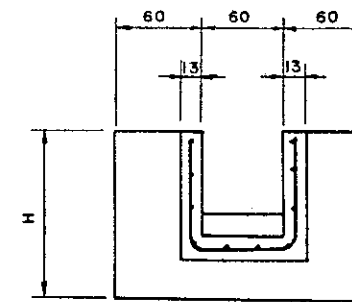
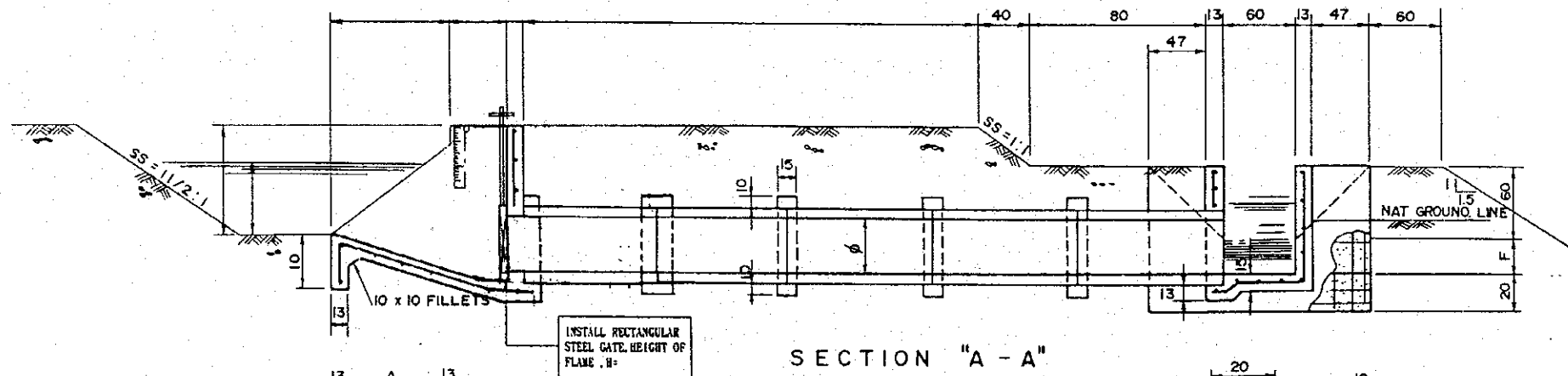
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

Road Crossing





Discharge (m ³ /sec)	φ (m)	A (m)	B (m)	C (m)	D (m)
0~0.064	0.30	0.80	0.60		
~0.150	0.45	0.80	0.78		
~0.250	0.60	0.80	0.96		

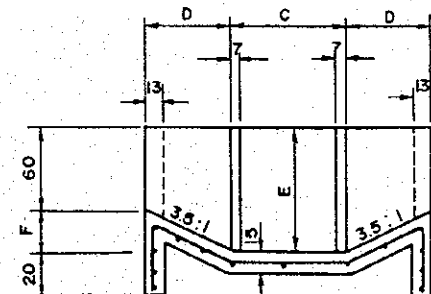
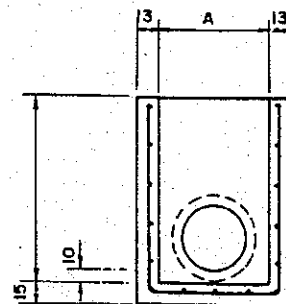


SECTION "B-B"

SECTION "E-E"

ALTERNATE PIPE COLLAR JOINT

SECTION "F-F"



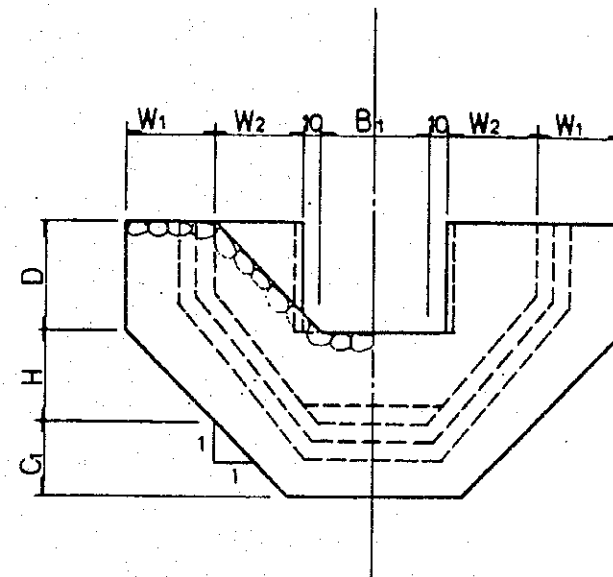
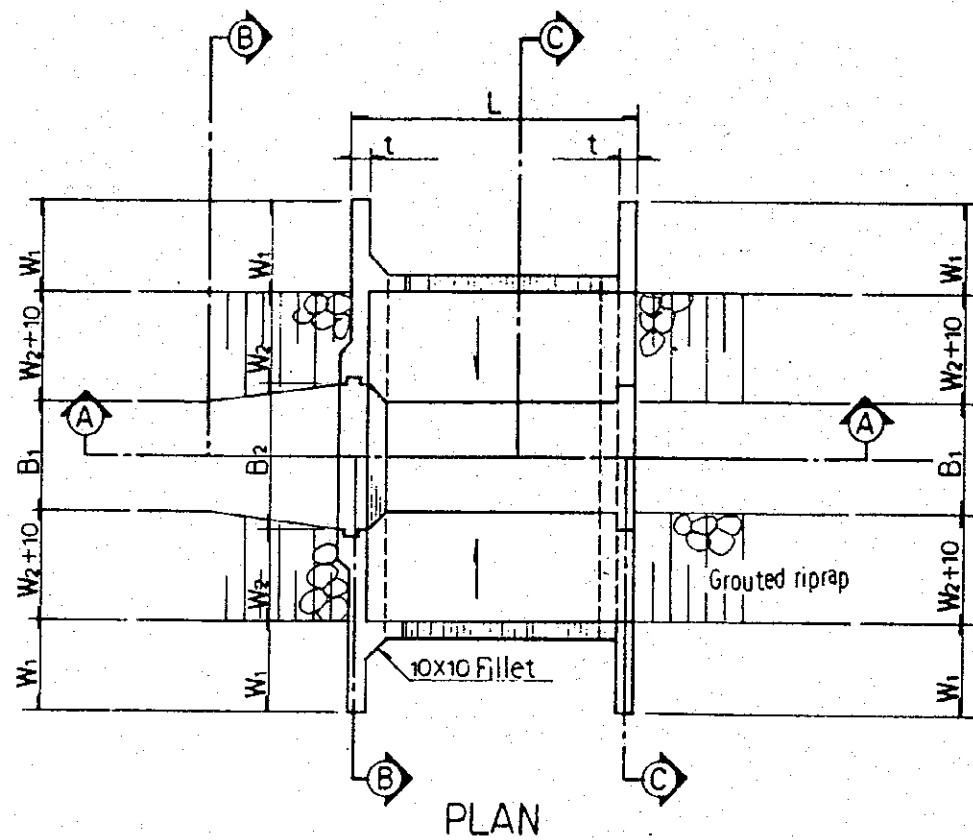
SECTION "C-C"

SECTION "G-G"

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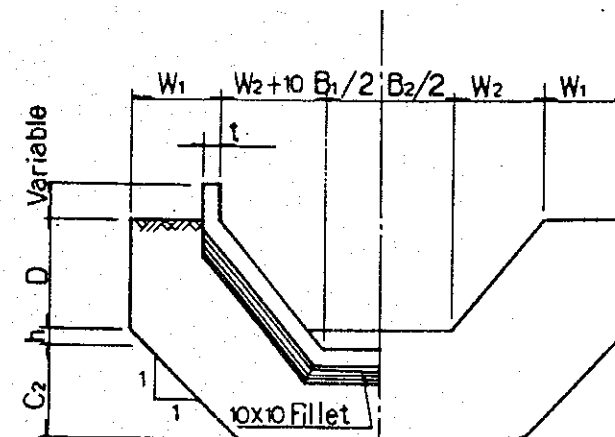
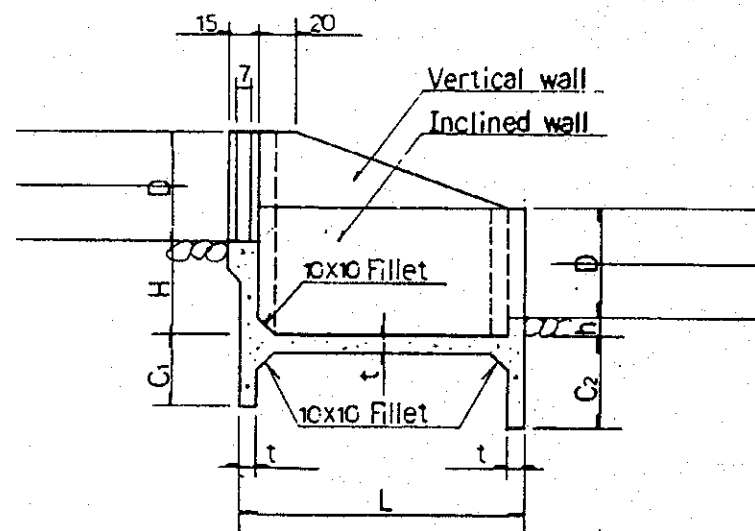
Diversion/Turnouts





Name	H (m)	h (m)	L (m)	B1 (m)	B2 (m)
Type-1	1.00	0.10	3.10		0.80
Type-2	0.90	0.10	2.80		0.60

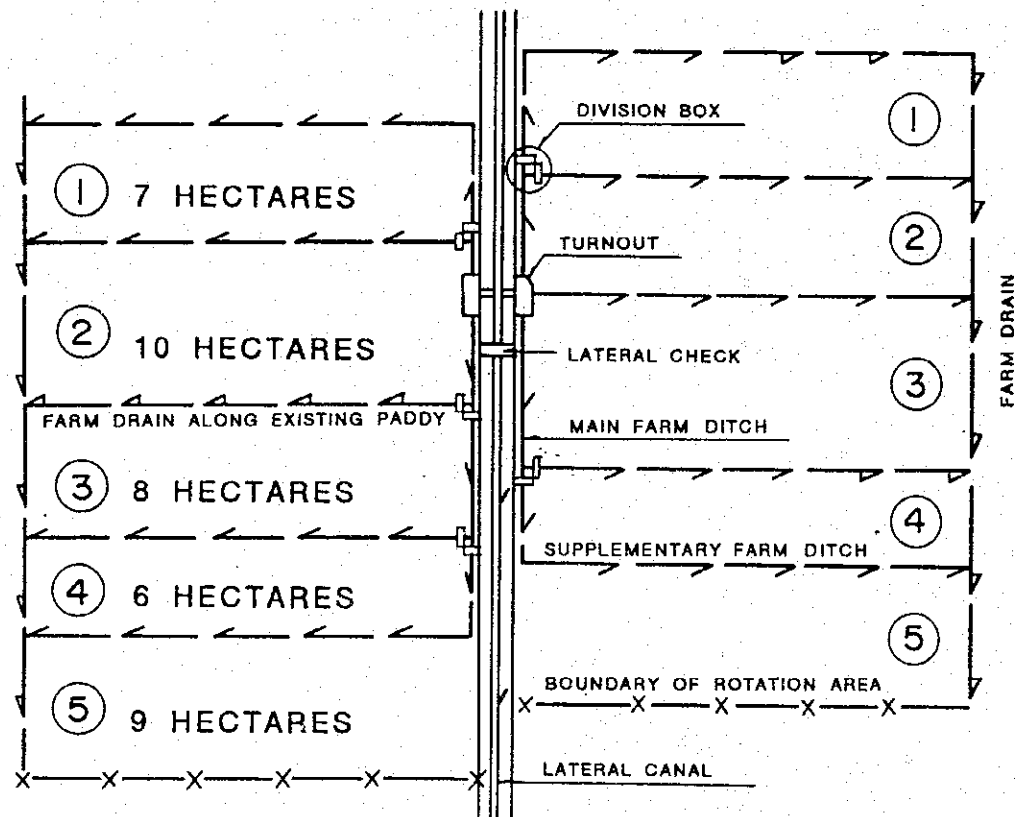
Name	t (m)	V1 (m)	V1 (m)	C1 (m)	C2 (m)
Type-1	0.10	0.50		0.40	0.45
Type-2	0.10	0.50		0.40	0.45



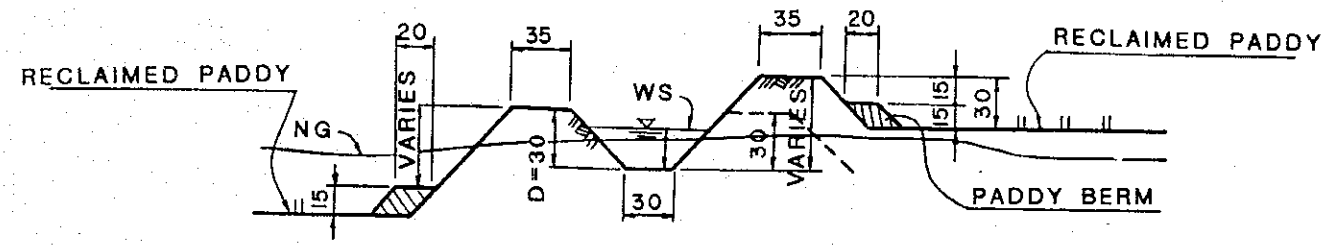
THE FEASIBILITY STUDY ON THE
DEVELOPMENT OF VIABLE AGRARIAN
REFORM COMMUNITIES IN SOUTHERN
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Drop

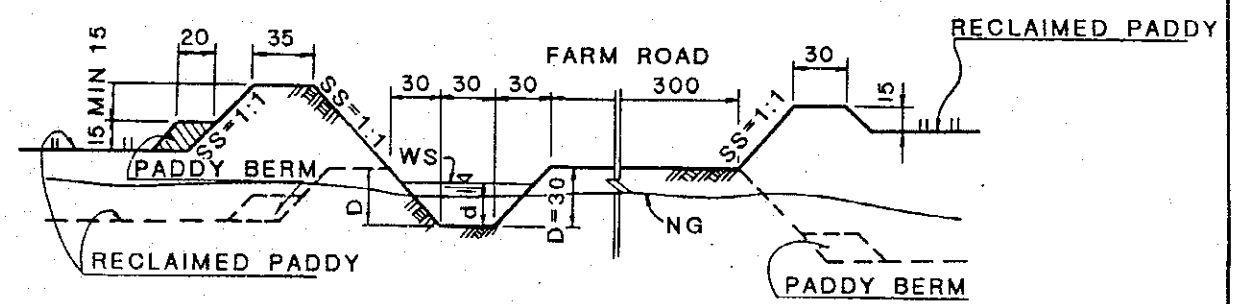




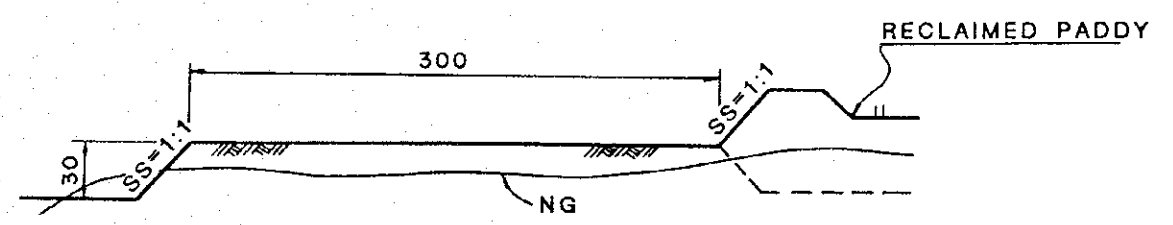
LAYOUT OF TWO ROTATION AREAS



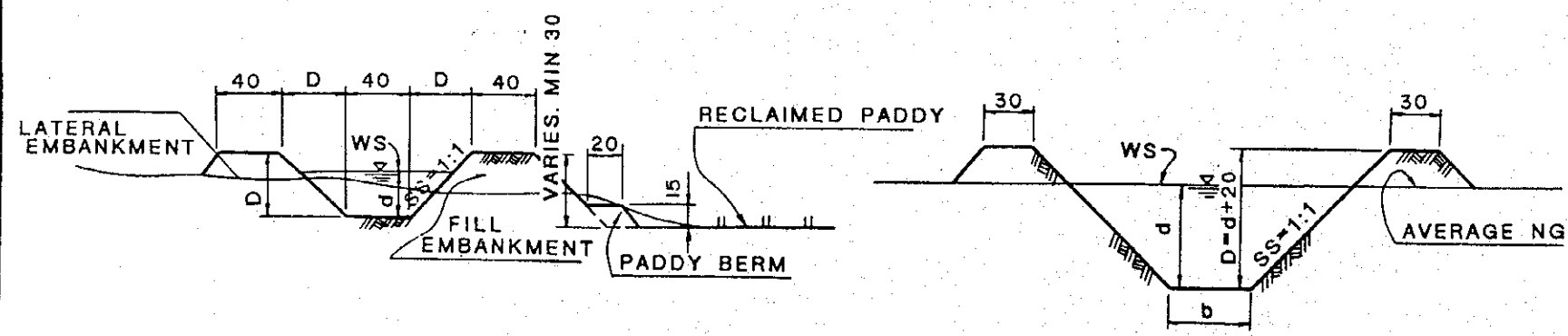
SUPPLEMENTARY FARM DITCH IN THE RECLAIMED AREA



SUPPLEMENTARY FARM DITCH AND FARM ROAD



FARM ROAD



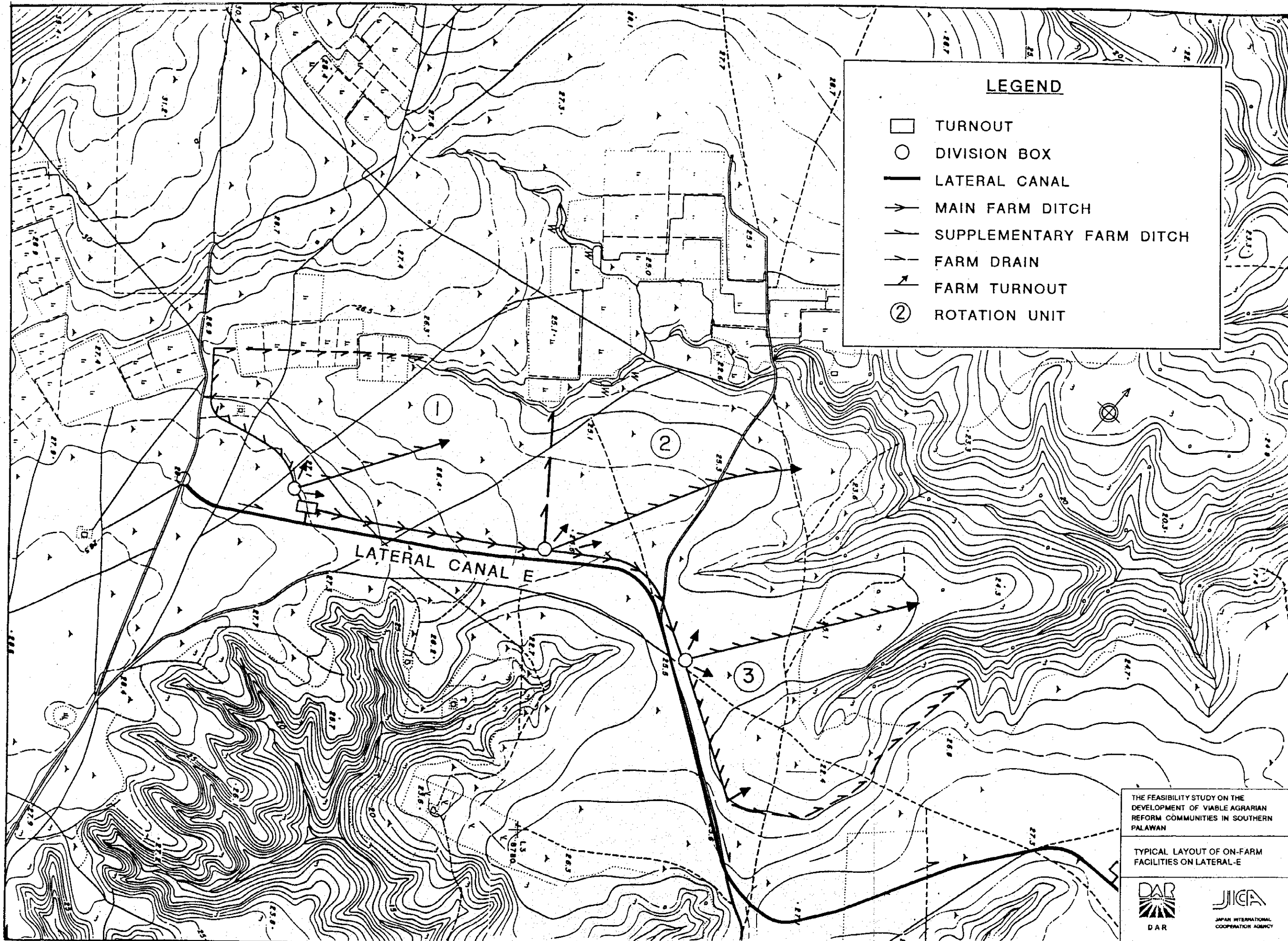
MAIN FARM DITCH ADJACENT TO LATERAL

FARM DRAIN

THE FEASIBILITY STUDY ON THE
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TYPICAL LAYOUT AND DESIGN
OF ON-FARM FACILITIES





LEGEND

- TURNOUT
- DIVISION BOX
- LATERAL CANAL
- MAIN FARM DITCH
- ▲— SUPPLEMENTARY FARM DITCH
- △— FARM DRAIN
- ⊗— FARM TURNOUT
- ② ROTATION UNIT

THE FEASIBILITY STUDY ON THE
DEVELOPMENT OF VIABLE AGRARIAN
REFORM COMMUNITIES IN SOUTHERN
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TYPICAL LAYOUT OF ON-FARM
FACILITIES ON LATERAL-E



JICA