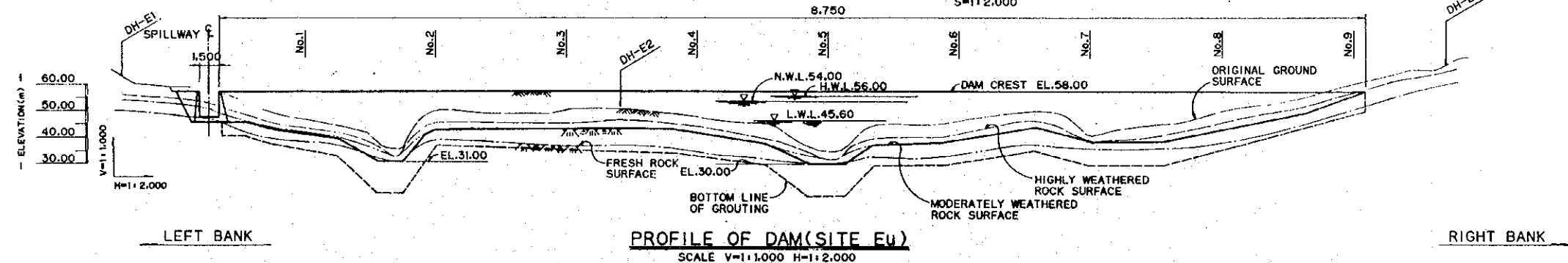


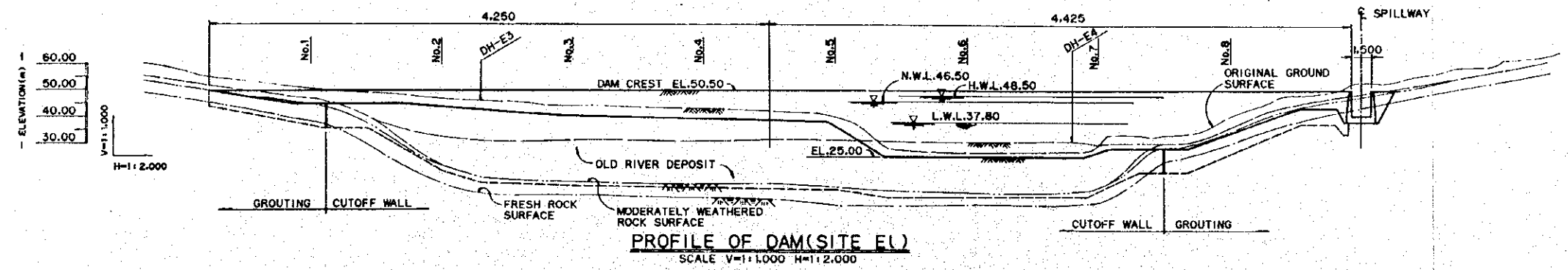
GENERAL LAYOUT FOR SITE EU & E1

MAJOR FEATURE OF SITE EU & E1

I T E M	DESCRIPTION	
	SITE EU	SITE E1
(1) LOCATION	BARANGAY IMAGAWAN PUERTO PRINCESA	BARANGAY IMAGAWAN PUERTO PRINCESA
(2) WATER SOURCE		
a) RIVER NAME	PINAGSALURAN R.	PINAGSALURAN R.
b) WATERSHED AREA	14.5 (km <sup>2</sup> )	15.0 (km <sup>2</sup> )
c) T. STORAGE	2.09 (MCM)	2.06 (MCM)
d) E. STORAGE	1.65 (MCM)	1.61 (MCM)
e) N.W.L (MSL)	54.0 (m)	46.5 (m)
f) L.W.L (MSL)	45.6 (m)	37.8 (m)
(3) MAJOR FEATURE		
a) DAM TYPE	FILLTYPE	FILLTYPE
b) CREST LENGTH	875.0 (m)	867.5 (m)
c) HEIGHT	28.0 (m)	25.5 (m)
d) CREST ELEVATION	58.0 (m)	50.5 (m)
e) DESIGN FLOOD	430.0 (m <sup>3</sup> /sec)	440.0 (m <sup>3</sup> /sec)
f) INTAKE DISCHARGE	0.84 (m <sup>3</sup> /sec)	0.84 (m <sup>3</sup> /sec)

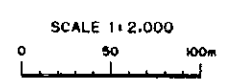


PROFILE OF DAM(SITE EU)  
SCALE V=1:1,000 H=1:2,000



PROFILE OF DAM(SITE E1)  
SCALE V=1:1,000 H=1:2,000

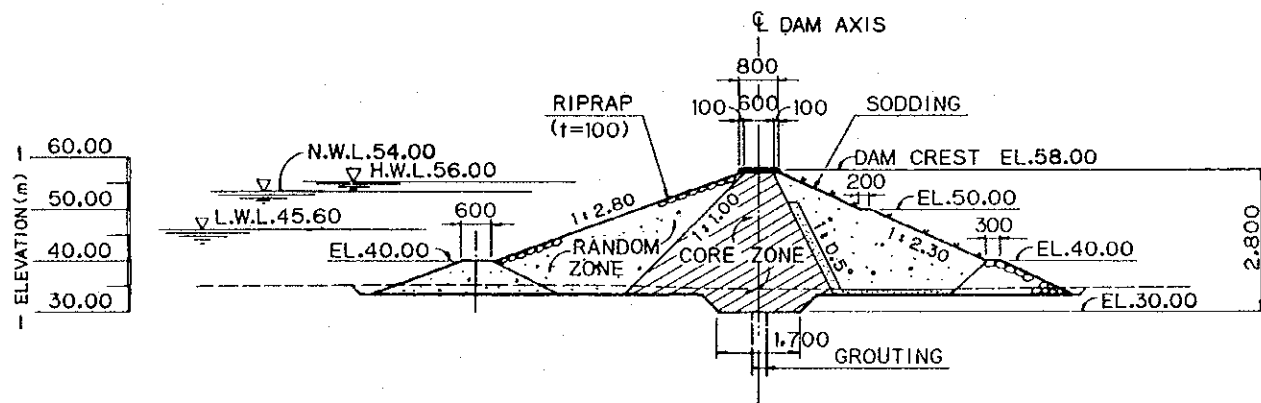
NOTE:  
1. ALL DIMENSIONS ARE SHOWN IN CENTIMETER UNLESS OTHERWISE SPECIFIED.  
2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).



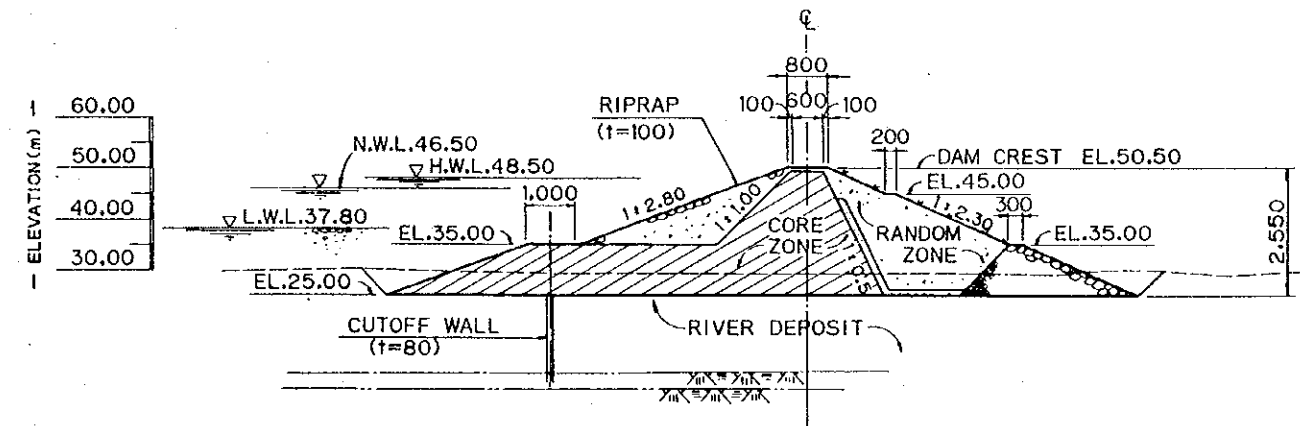
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

WATER RESOURCES DEVELOPMENT  
SITE EU & E1 (1/2)

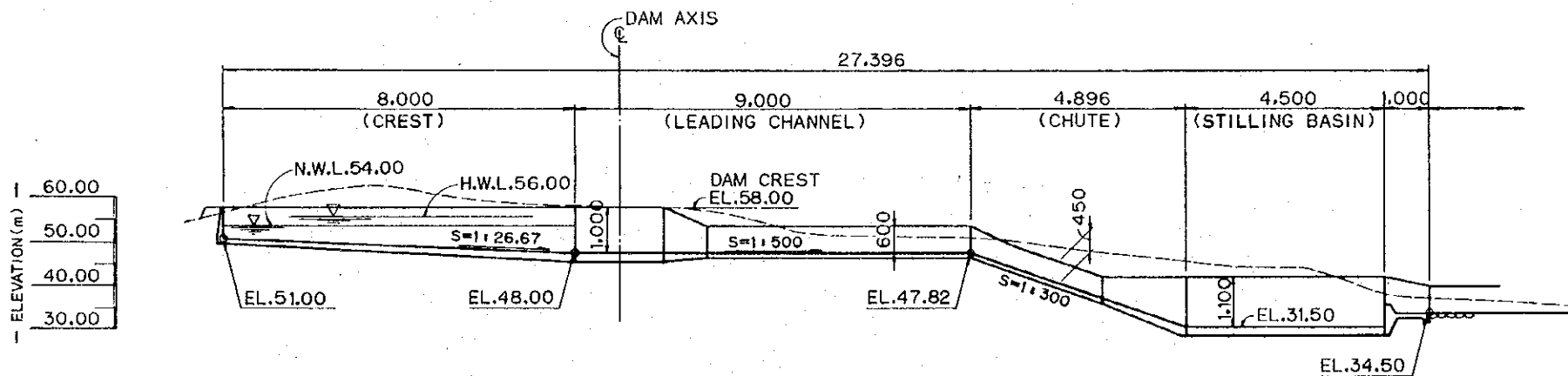




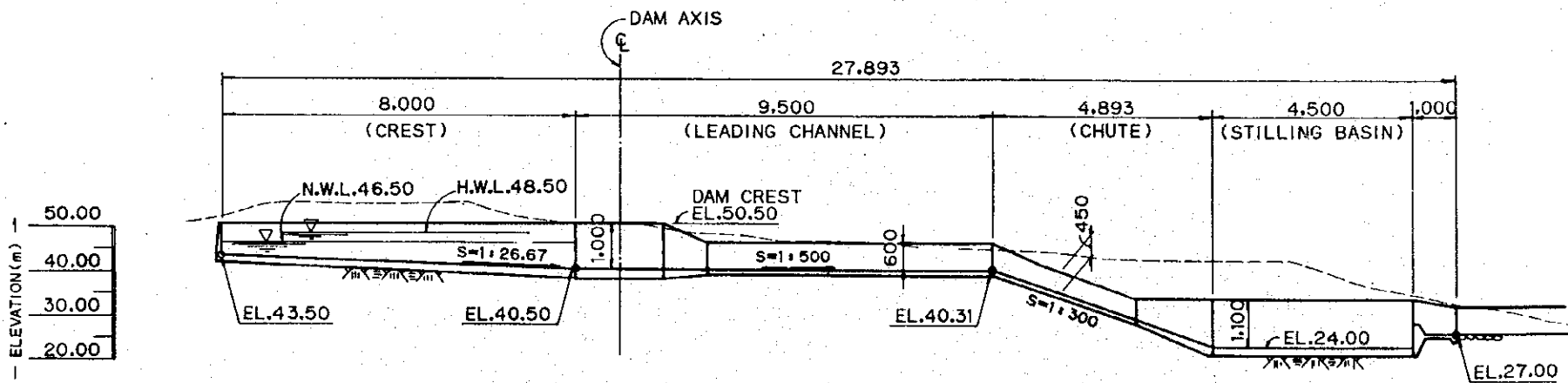
TYPICAL CROSS SECTION OF DAM  
(SITE Eu)



TYPICAL CROSS SECTION OF DAM  
(SITE EI)



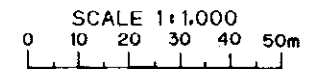
PROFILE OF SPILLWAY  
(SITE Eu)



PROFILE OF SPILLWAY  
(SITE EI)

NOTE:

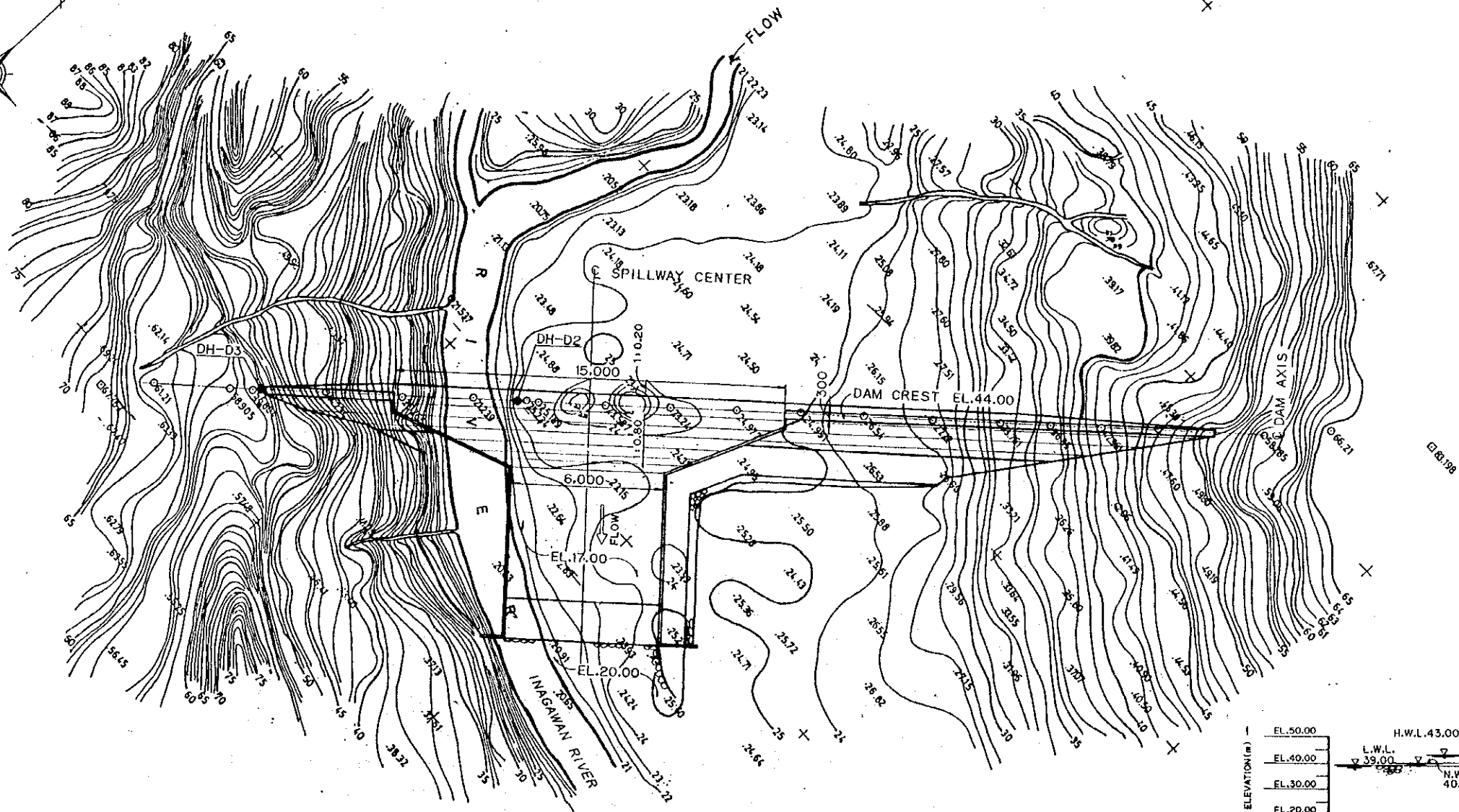
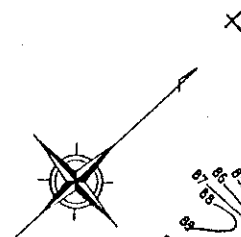
1. ALL DIMENSIONS ARE SHOWN IN CENTIMETER UNLESS OTHERWISE SPECIFIED.
2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).



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

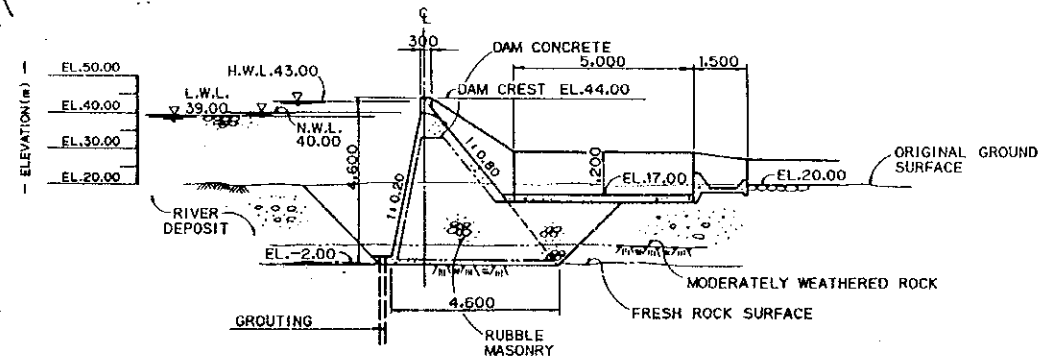
WATER RESOURCES DEVELOPMENT  
SITE Eu & EI (2/2)



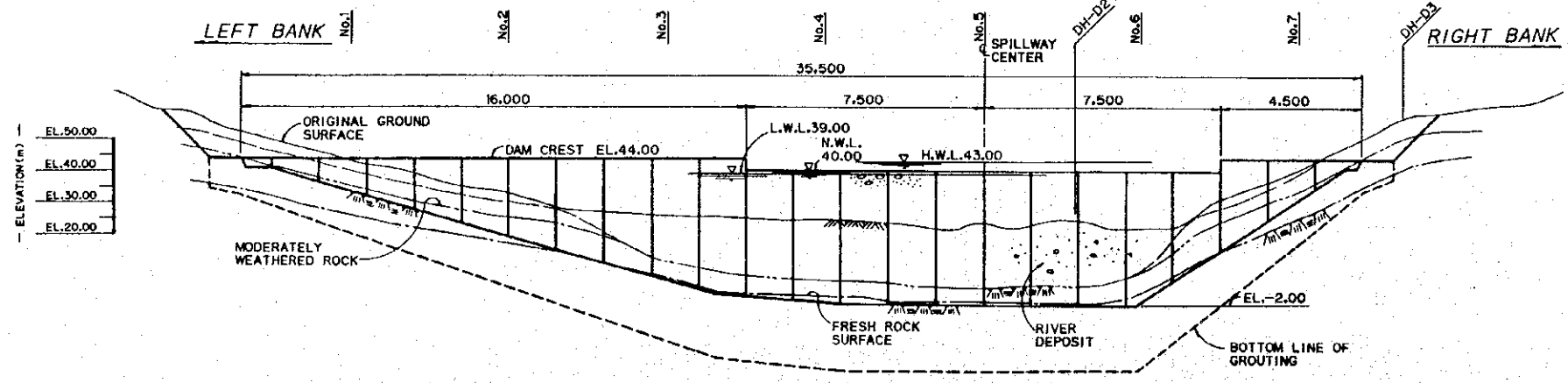


MAJOR FEATURE OF SITE D	
ITEM	DESCRIPTION
(1) LOCATION	BARANGAY INAGAWAN PUERTO PRINCESA
(2) WATER SOURCE	INAGAWAN R.
a) RIVER NAME	INAGAWAN R.
b) WATERSHED AREA	118.1 (km <sup>2</sup> )
c) T. STORAGE	2.56 (MCM)
d) E. STORAGE	0.20 (MCM)
e) N.W.L (MSL)	40.0 (m)
f) L.W.L (MSL)	39.0 (m)
(3) MAJOR FEATURE	CONCRETE
a) DAM TYPE	CONCRETE
b) CREST LENGTH	335.0 (m)
c) HEIGHT	46.0 (m)
d) CREST ELEVATION	44.0 (m) MSL
e) DESIGN FLOOD	1,600.0 (m <sup>3</sup> /sec)
f) INTAKE DISCHARGE	0.84 (m <sup>3</sup> /sec)

GENERAL LAYOUT FOR SITE D  
SCALE 1:1,000



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



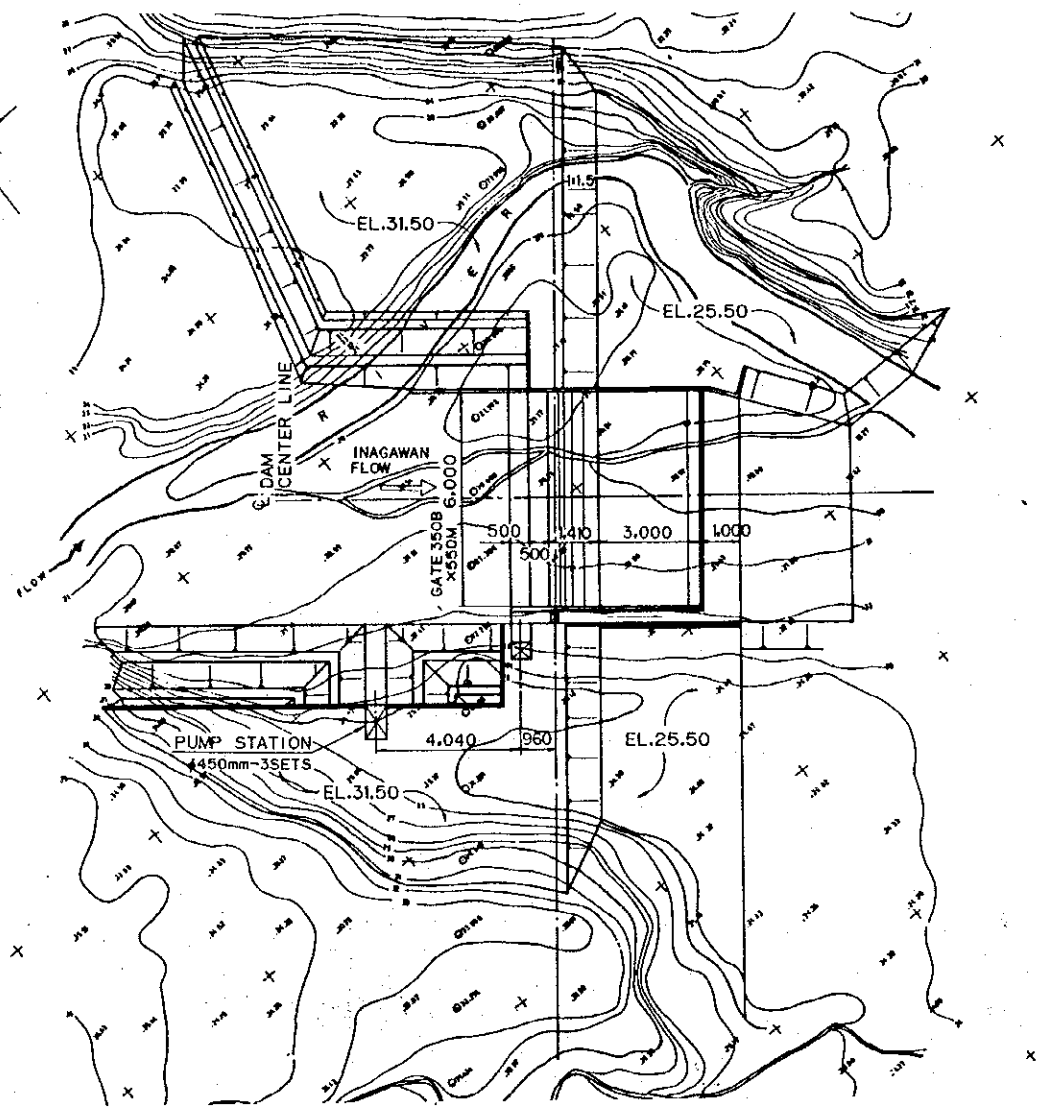
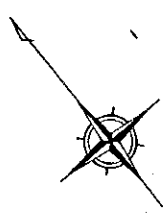
PROFILE OF DAM  
(SITE D) SCALE 1:1,000

- NOTE:
1. ALL DIMENSIONS ARE SHOWN IN CENTIMETER UNLESS OTHERWISE SPECIFIED.
  2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).
  3. UNSUITABLE SITE FOR DAM DUE TO DEEP RIVER DEPOSIT.

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

WATER RESOURCES DEVELOPMENT  
SITE D

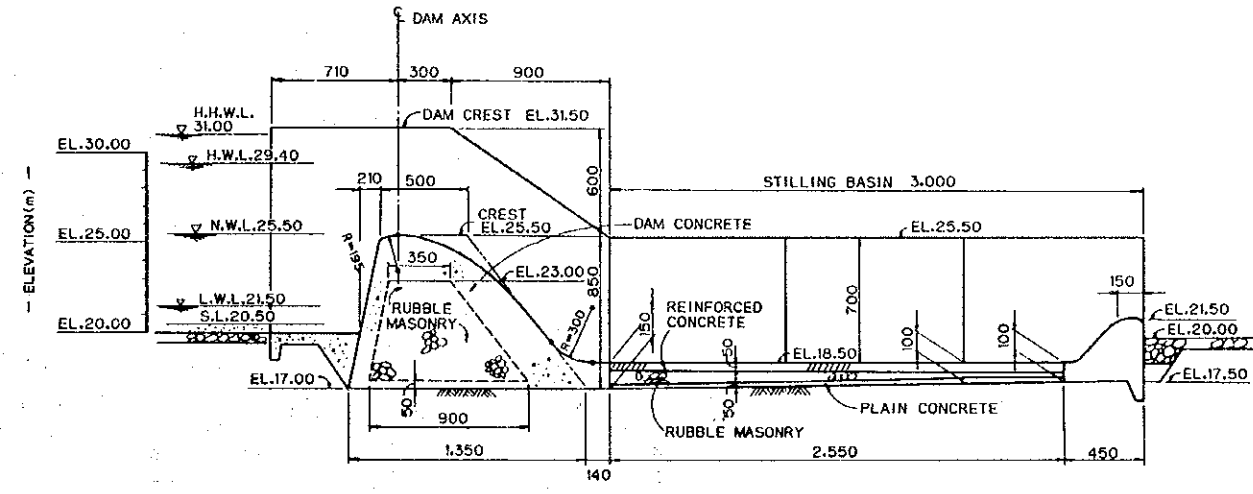




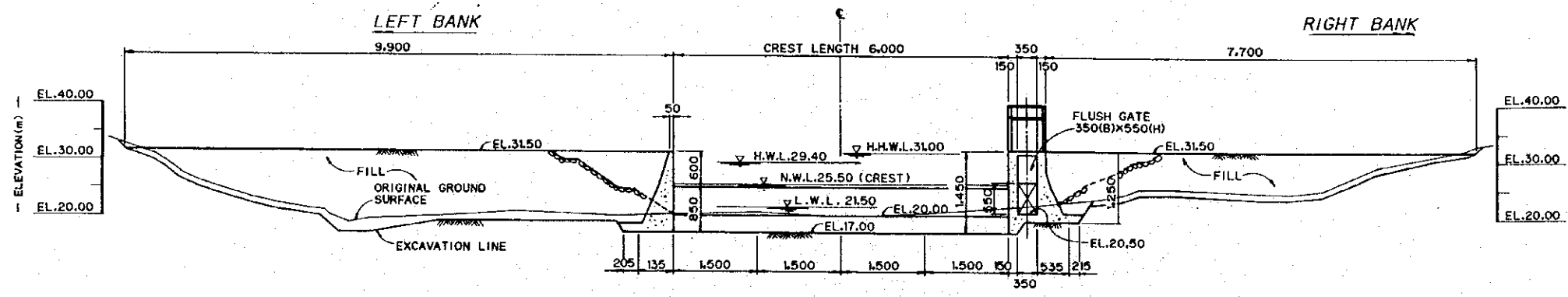
**GENERAL LAYOUT FOR SITE LD**  
SCALE 1:1,000

**MAJOR FEATURE OF SITE LD**

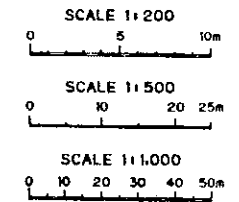
ITEM	DESCRIPTION	ITEM	DESCRIPTION
(1) LOCATION	INAGAWAN PUERTO PRINCESA	(4) PUMP STATION	
(2) WATER RESOURCES		a) DESIGN DISCHARGE	0.84 (m <sup>3</sup> /sec)
a) RIVER	INAGAWAN	b) TYPE OF PUMP	VERTICAL PUMP
b) WATERSHED AREA	118.5 (km <sup>2</sup> )	c) SIZE	φ 450mm x 3sets
c) EFFECTIVE STORAGE	0.20 (MCM)	d) OUTPUT OF PUMP	190KW x 3sets
(3) WEIR		(5) IRRIGABLE AREA	590 (ha)
a) TYPE	FIXED WEIR TYPE		
b) CREST LENGTH	60.0 (m)		
c) HEIGHT	8.5 (m)		
d) CREST ELEVATION	25.50 (m)		
e) DESIGN FLOOD	990 (m <sup>3</sup> /sec)		
f) INTAKE DISCHARGE	0.45 (m <sup>3</sup> /sec)		



**TYPICAL CROSS SECTION OF DAM**  
SCALE 1:200



**PROFILE OF DAM AXIS**  
SCALE 1:500

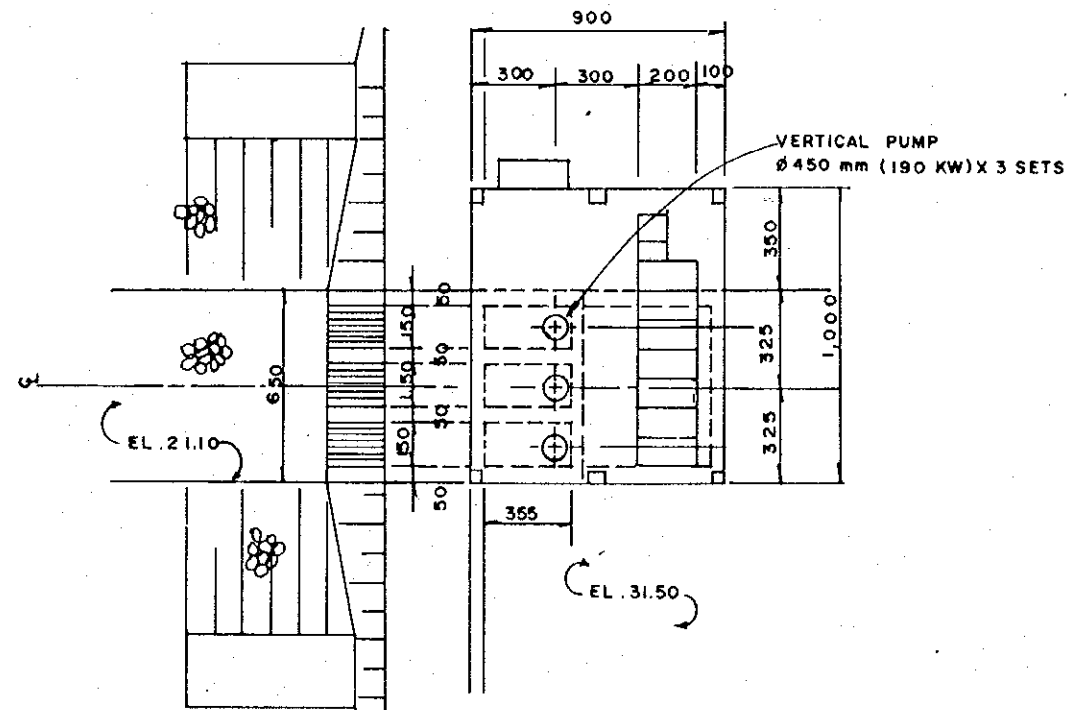


NOTE:  
1. ALL DIMENSIONS ARE SHOWN IN CENTIMETER UNLESS OTHERWISE SPECIFIED.  
2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).

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

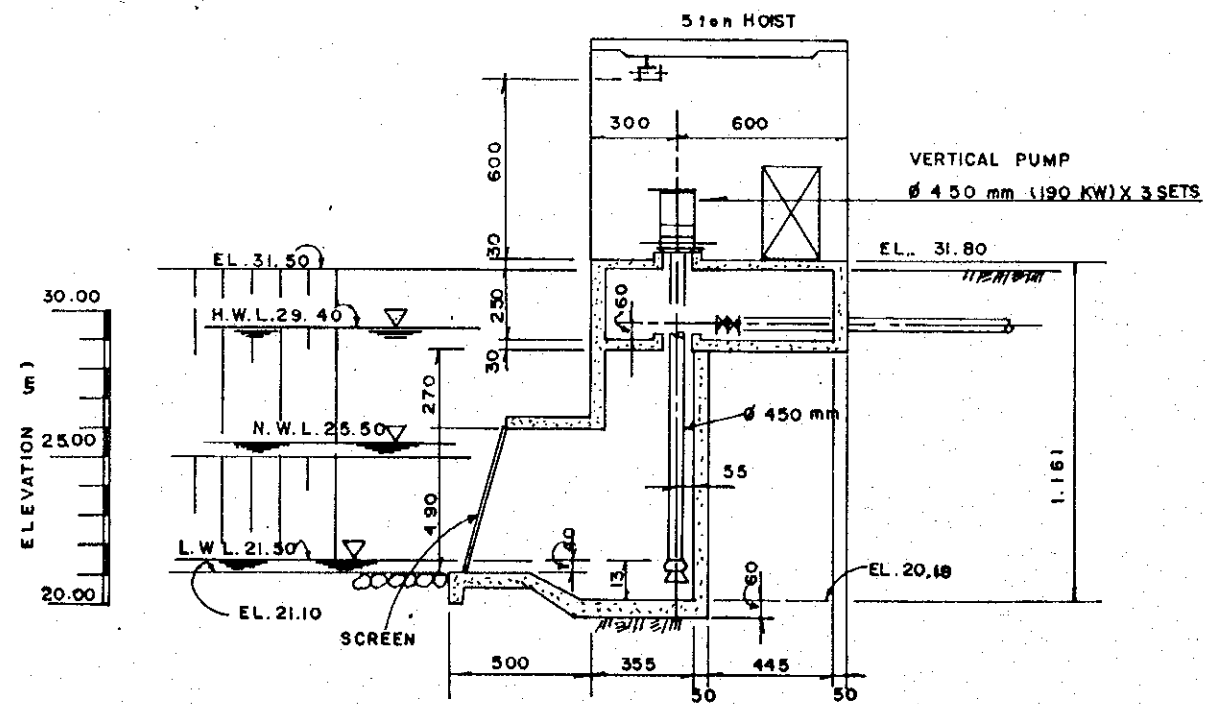
WATER RESOURCES DEVELOPMENT  
SITE LD (DIVERSION DAM, PUMP STA.)  
(1/2)





**PLAN OF PUMP STATION**

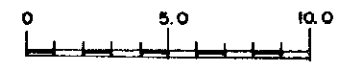
SCALE 1:200



**CROSS SECTION**

SCALE 1:200

SCALE 1:200



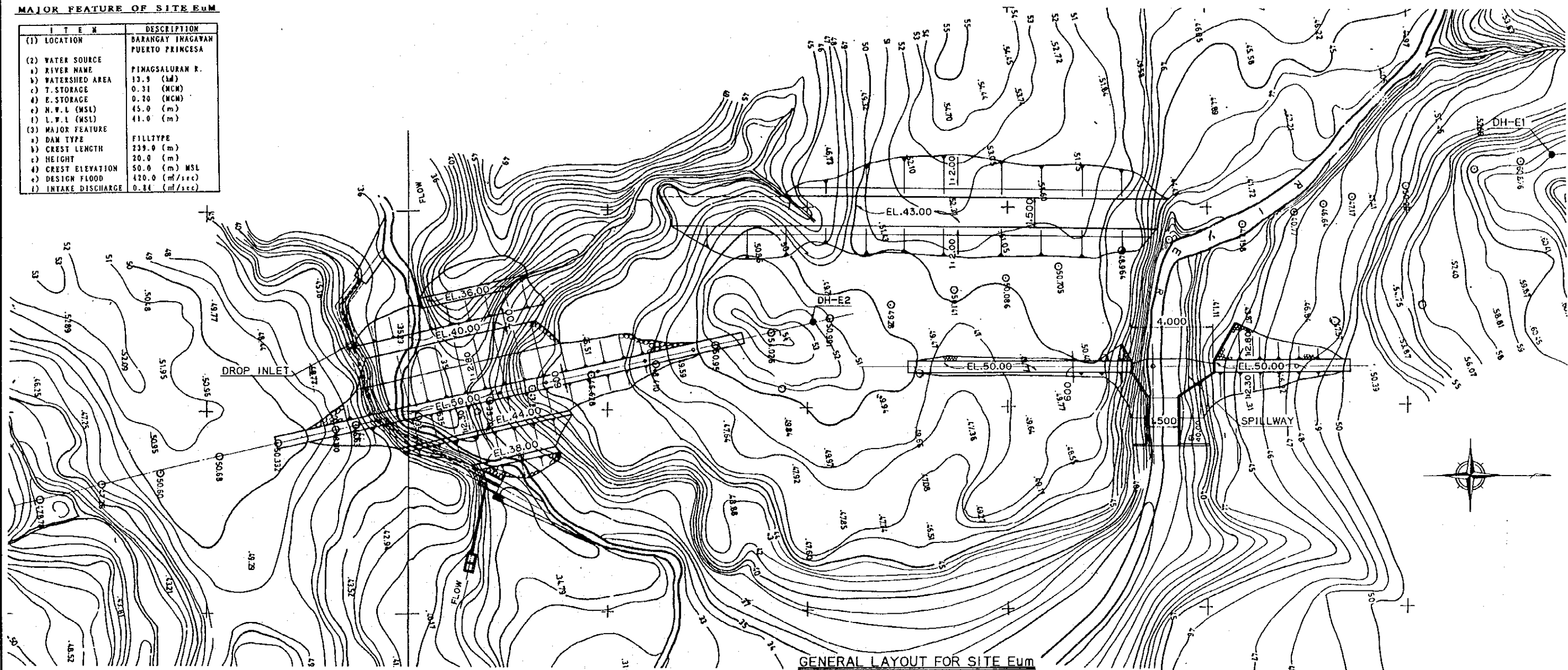
THE FEASIBILITY STUDY ON THE  
DEVELOPMENT OF VIABLE AGRARIAN  
REFORM COMMUNITIES IN SOUTHERN  
PALAWAN

WATER RESOURCES DEVELOPMENT  
SITE LD (DIVERSION DAM, PUMP STA.)  
(2/2)

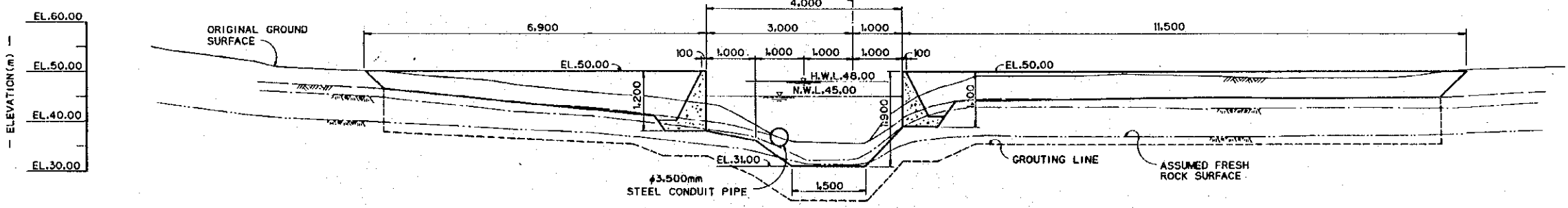


**MAJOR FEATURE OF SITE EUM**

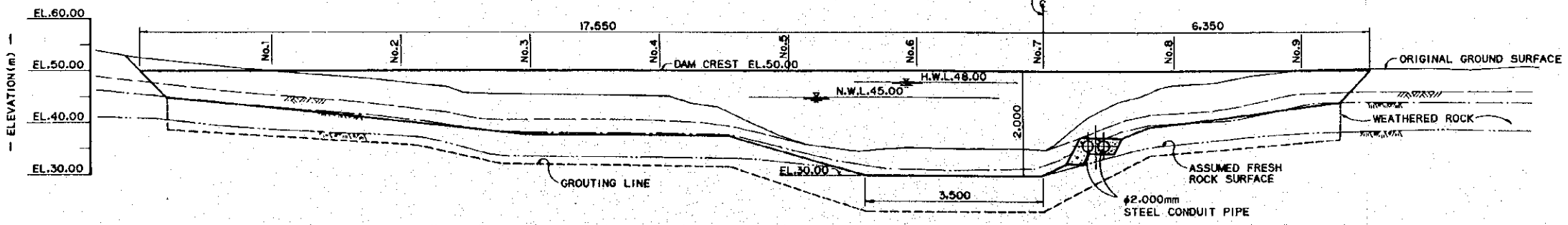
ITEM	DESCRIPTION
(1) LOCATION	BARANGAY INAGAYAN PUERTO PRINCESA
(2) WATER SOURCE	PIMAGSALURAN R.
1) RIVER NAME	13.8 (km)
2) WATERSHED AREA	0.31 (MCM)
3) T. STORAGE	0.20 (MCM)
4) R. STORAGE	45.0 (m)
5) H.W.L (MSL)	41.0 (m)
(3) MAJOR FEATURE	FILLTYPE
1) DAM TYPE	239.0 (m)
2) CREST LENGTH	20.0 (m)
3) HEIGHT	50.0 (m) MSL
4) CREST ELEVATION	420.0 (m <sup>3</sup> /sec)
5) DESIGN FLOOD	0.84 (m <sup>3</sup> /sec)
6) INTAKE DISCHARGE	



**GENERAL LAYOUT FOR SITE EUM**  
SCALE 1:1,000

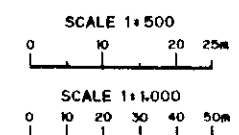


**PROFILE OF SPILLWAY**  
SCALE 1:1,500



**PROFILE OF DAM**  
SCALE 1:1,500

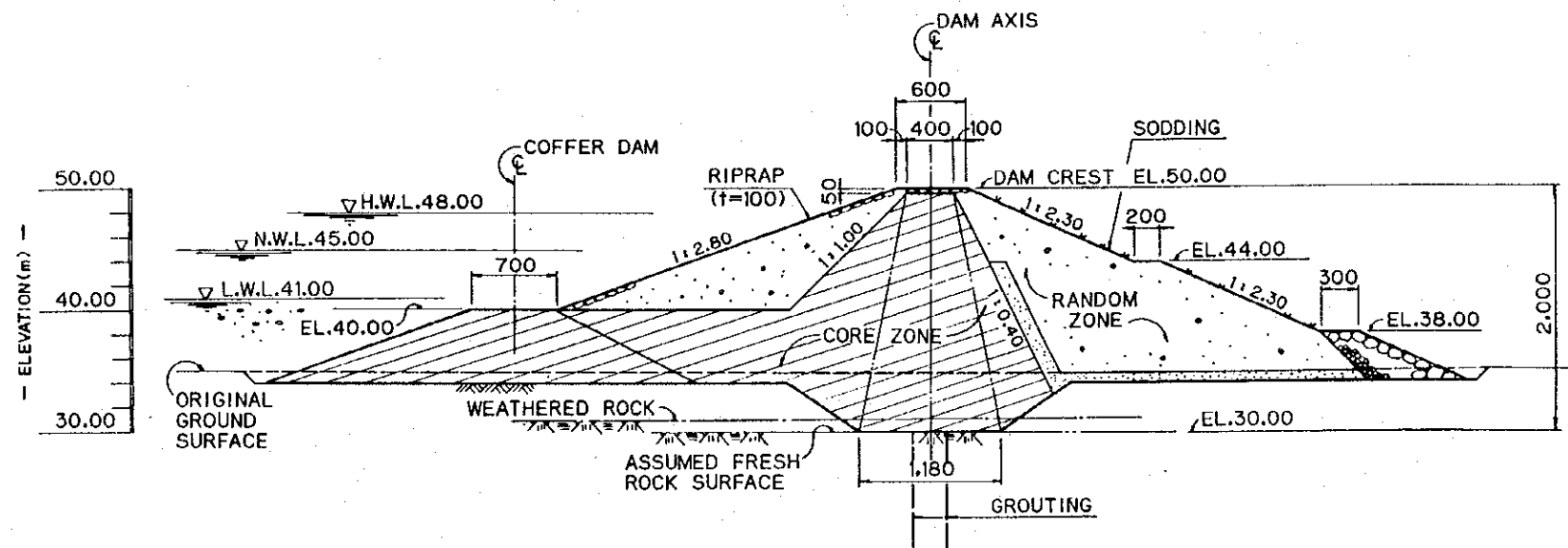
**NOTE:**  
1. ALL DIMENSIONS ARE SHOWN IN CENTIMETER UNLESS OTHERWISE SPECIFIED.  
2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).



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

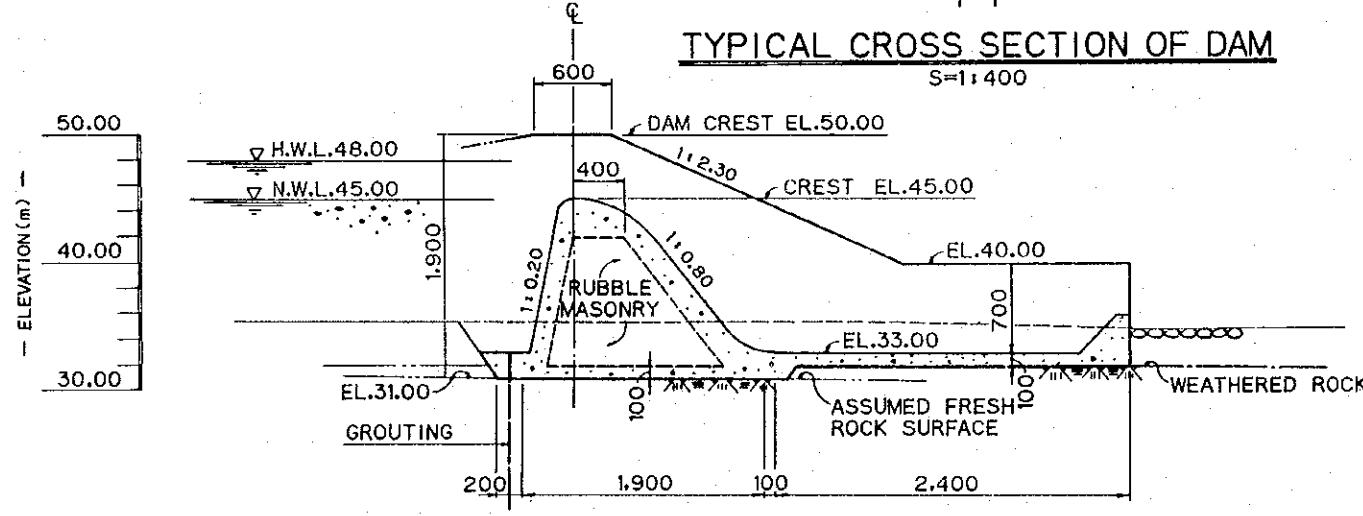
**WATER RESOURCES DEVELOPMENT SITE EUM (1/2)**





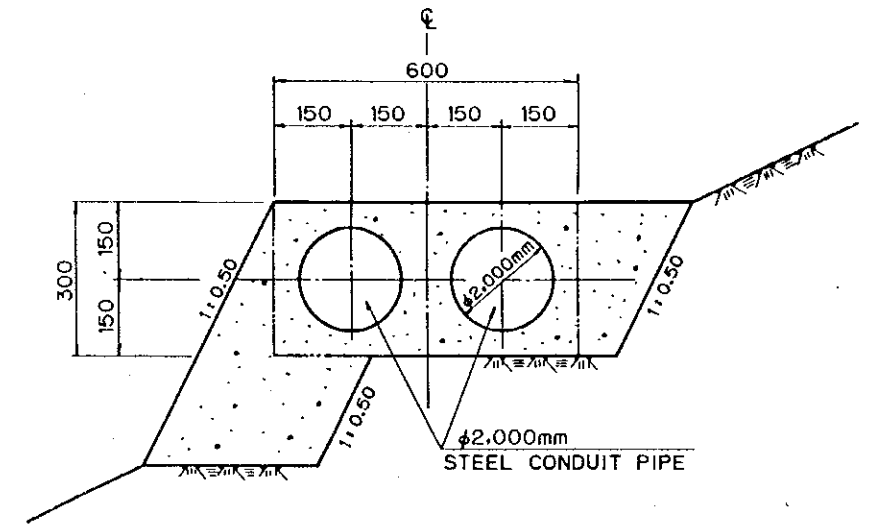
**TYPICAL CROSS SECTION OF DAM**

S=1:400



**TYPICAL CROSS SECTION OF SPILLWAY**

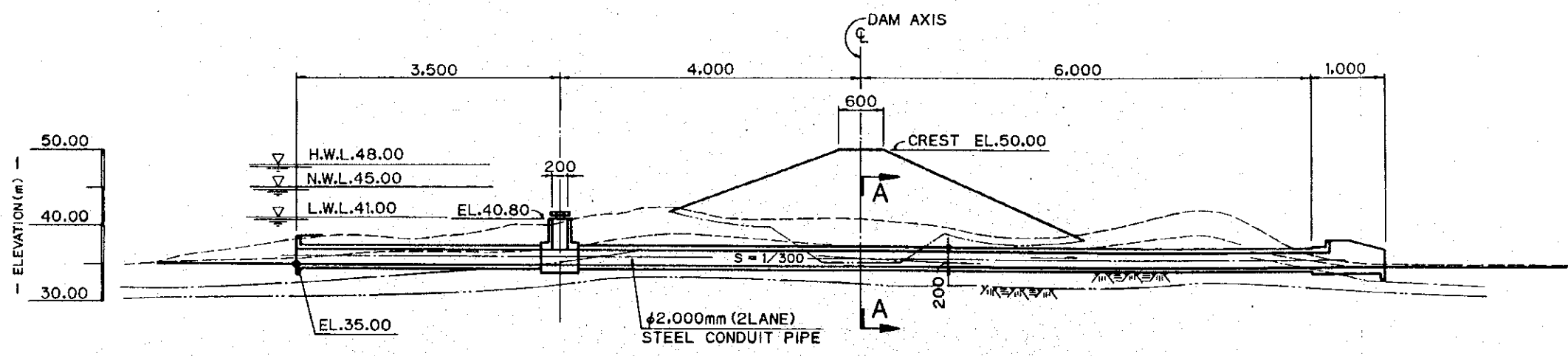
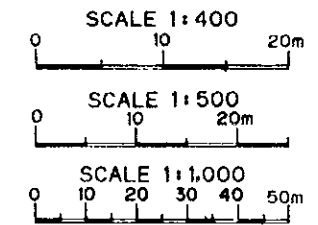
S=1:400



**SECTION A-A**

S=1:100

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



**PROFILE OF INTAKE FACILITIES**

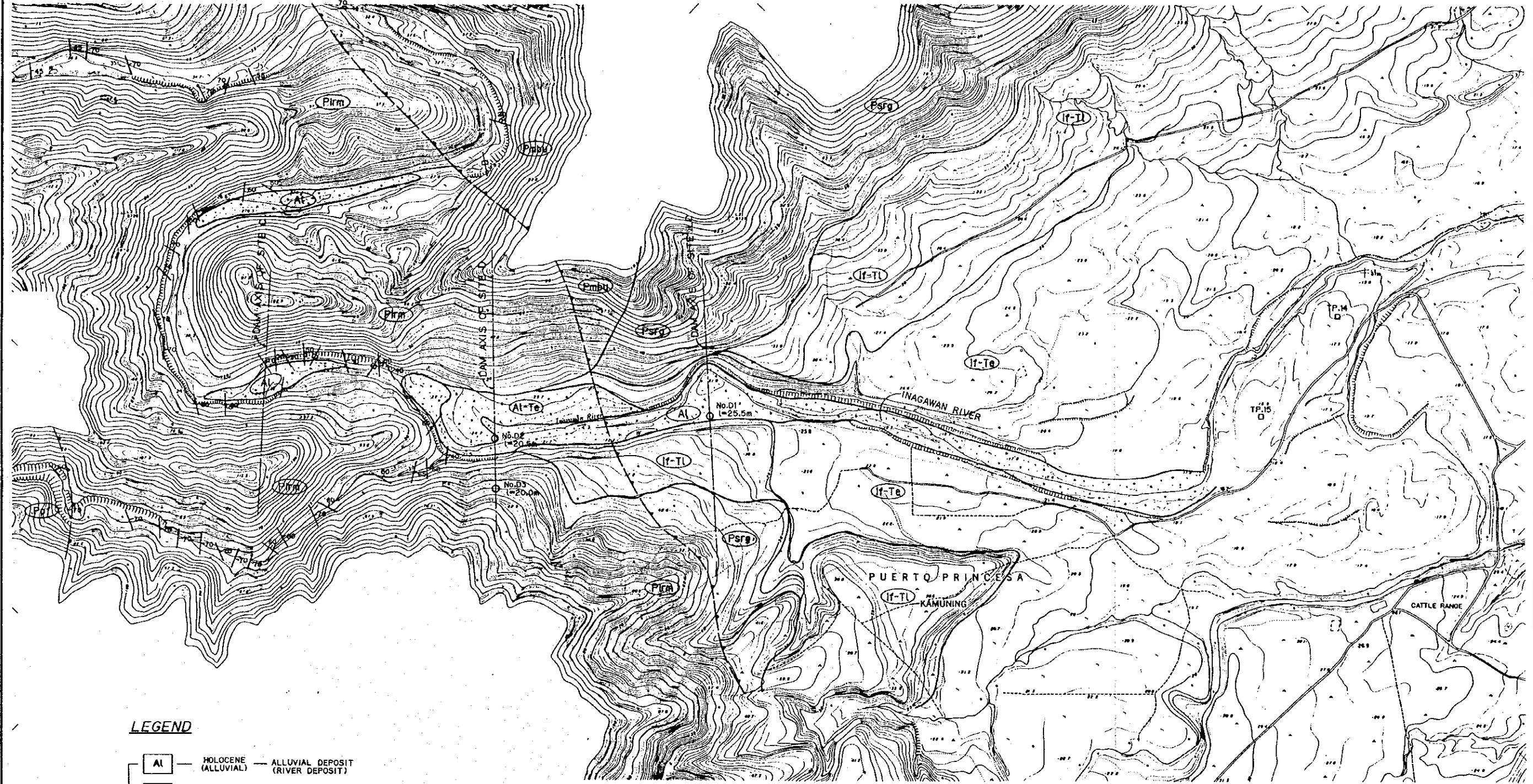
S=1:500

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

WATER RESOURCES DEVELOPMENT SITE EUM (2/2)



# GEOLOGICAL MAP (SITE C,D,LD)



## LEGEND

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

## GEOLOGICAL SYMBOLS

	STRIKE AND DIP OF BEDDING PLANE		ANTICLINE
	STRIKE AND DIP OF JOINT PLANE		SYNCLINE
	STRIKE OF VERTICAL JOINT PLANE		THRUST FAULT
	STRIKE AND DIP OF SHEAR		SHEAR ZONE
			FORMATIONAL BOUNDARY

	No.ES DRILLING LOCATION AND HOLE NUMBER
	TP.6 TEST PIT LOCATION AND PIT NUMBER
	OH.10 AUGER HOLE LOCATION AND HOLE NUMBER

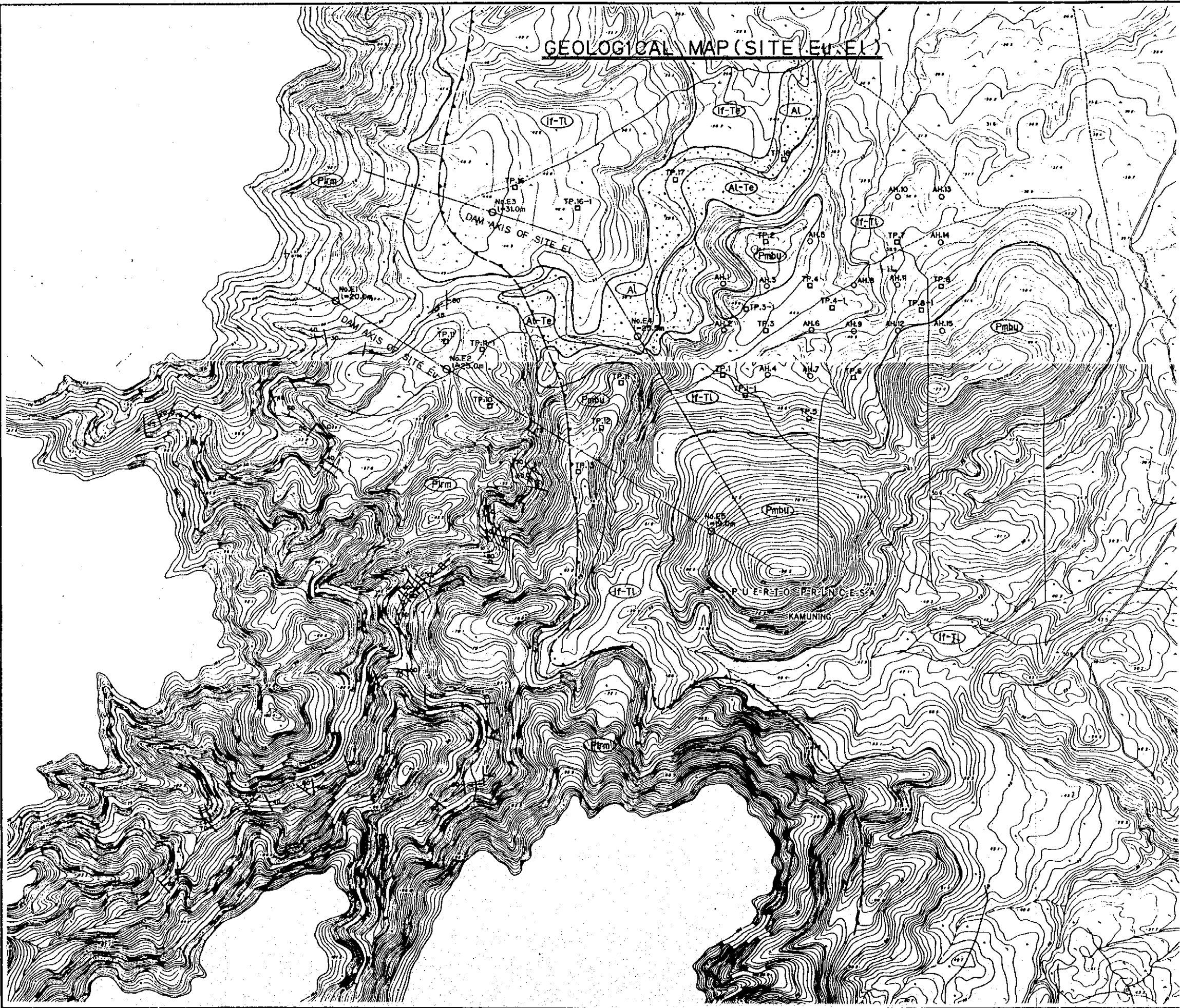
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

WATER RESOURCES DEVELOPMENT GEOLOGICAL MAP (SITE C, D, LD)





# GEOLOGICAL MAP (SITE EU, EI)



## LEGEND

- |            |              |  |
|------------|--------------|--|
| QUATERNARY | <b>Al</b>    | HOLOCENE - ALLUVIAL DEPOSIT (RIVER DEPOSIT)                                |
|            | <b>Al-Te</b> | HOLOCENE - ALLUVIAL TERRACE DEPOSIT  |
|            | <b>If-Tl</b> | PLEISTOCENE - DILUVIAL TALUS(FAN) DEPOSIT (IWAHIG FORMATION)               |
|            | <b>If-Te</b> | PLEISTOCENE - DILUVIAL TERRACE DEPOSIT (IWAHIG FORMATION)                  |
| TERTIARY   | <b>Pkm</b>   | Eocene to MIOCENE - INAGAWAN RIVER METAMORPHICS (SCHIST, AMPHIBOLITE etc.) |
|            | <b>Ppt</b>   | Eocene - PANAS FORMATION (TURBIDITIC FORMATION)                            |
|            | <b>Pmbu</b>  | Eocene - MT. BEAUFORT ULTRAMPHICS (SERPENTINITED PERIDOTITE etc.)          |
|            | <b>Parg</b>  | Eocene - STAVELY RANGE GABBRO  |

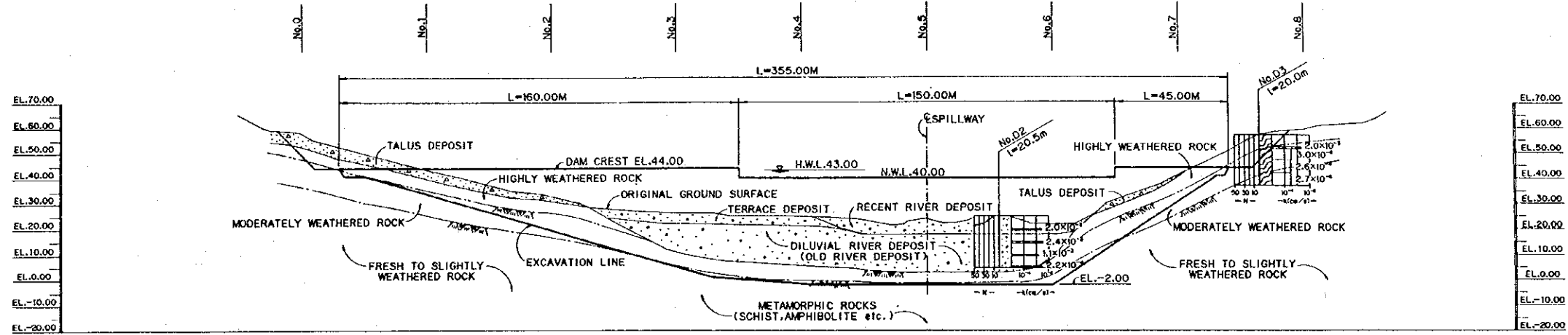
## GEOLOGICAL SYMBOLS

- 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

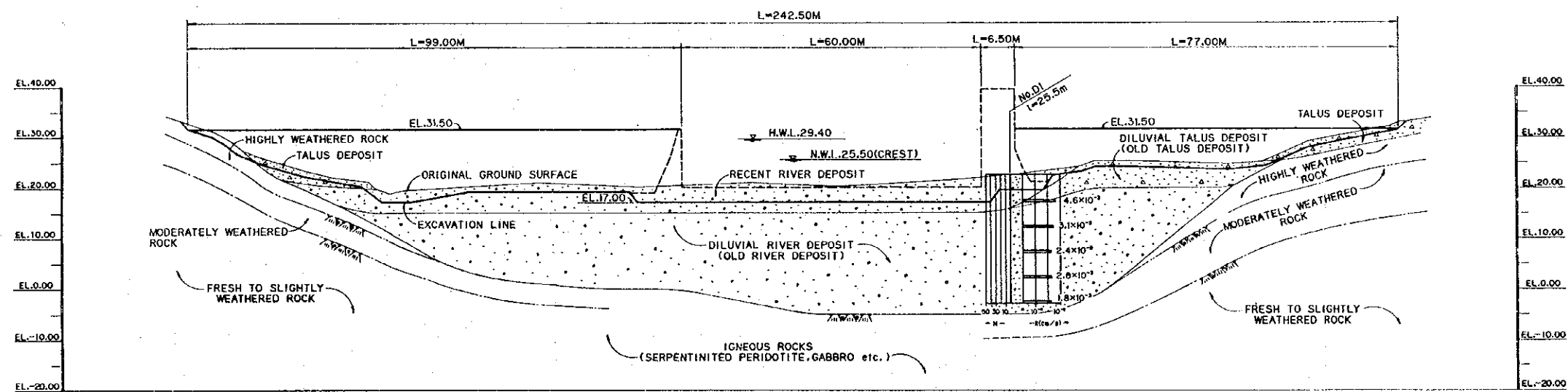
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

WATER RESOURCES DEVELOPMENT GEOLOGICAL MAP (SITE EU, EI)





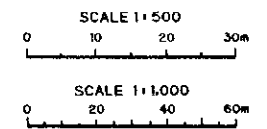
**GEOLOGICAL PROFILE SECTION ALONG D DAM AXIS**  
SCALE V=1:1,000, H=1:1,000



**GEOLOGICAL PROFILE SECTION ALONG LD DAM AXIS**  
SCALE V=1:500, H=1:500

LEGEND	
[Symbol]	RIVER DEPOSIT
[Symbol]	TALUS DEPOSIT
[Symbol]	OLD RIVER DEPOSIT (DILUVIAL RIVER DEPOSIT)
[Symbol]	OLD TALUS DEPOSIT (DILUVIAL TALUS DEPOSIT)
[Symbol]	IGNEOUS ROCKS (SERPENTINITED PERIDOTITE etc.)
[Symbol]	METAMORPHIC ROCKS (SCHIST, AMPHIBOLITE etc.)
[Symbol]	STAVELY RANGE GABBRO
[Symbol]	ASSUMED MODERATELY WEATHERED ROCK LINE
[Symbol]	ASSUMED SLIGHTLY WEATHERED TO FRESH ROCK LINE
[Symbol]	THRUST FAULT
[Symbol]	ALLUVIAL DEPOSIT (HOLOCENE)
[Symbol]	IWAHIG FORMATION (PLEISTOCENE)
[Symbol]	MT. BEAUFORT ULTAMAFICS (EOCENE)
[Symbol]	INAGAWAN RIVER METAMORPHICS (EOCENE-MIOCENE)
[Symbol]	STAVELY RANGE GABBRO

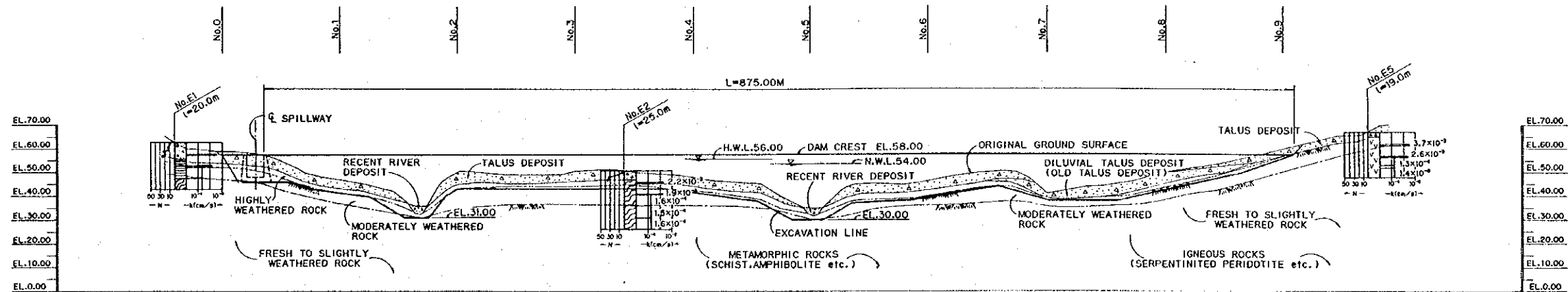
NOTE:  
1. ALL DIMENSIONS ARE SHOWN IN METER UNLESS OTHERWISE SPECIFIED.  
2. ELEVATIONS ARE SHOWN IN METER (M.S.L.).



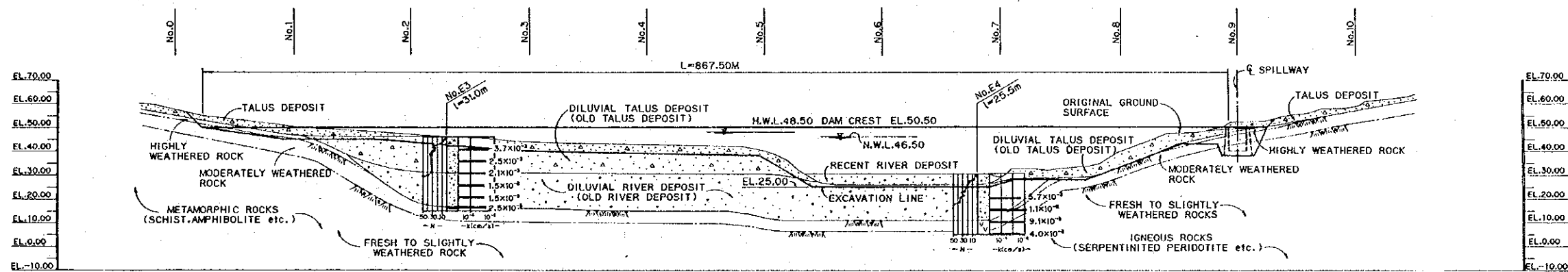
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

WATER RESOURCES DEVELOPMENT GEOLOGICAL PROFILE SECTION (SITE D, LD)





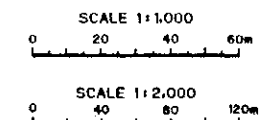
**GEOLOGICAL PROFILE SECTION ALONG Eu DAM AXIS**  
SCALE V=1:1,000, H=1:2,000



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

LEGEND	
	RIVER DEPOSIT
	TALUS DEPOSIT
	OLD RIVER DEPOSIT (DILUVIAL RIVER DEPOSIT)
	OLD TALUS DEPOSIT (DILUVIAL TALUS DEPOSIT)
	IGNEOUS ROCKS (SERPENTINITED PERIDOTITE etc.)
	METAMORPHIC ROCKS (SCHIST, AMPHIBOLITE etc.)
	STAVELY RANGE GABBRO
	ASSUMED MODERATELY WEATHERED ROCK LINE
	ASSUMED SLIGHTLY WEATHERED TO FRESH ROCK LINE
	THRUST FAULT

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, EI)



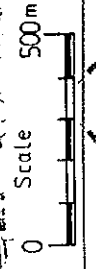
# General Plan of Irrigation and Drainage and Farm to Market Road System

OUTLINE OF CANAL SYSTEM

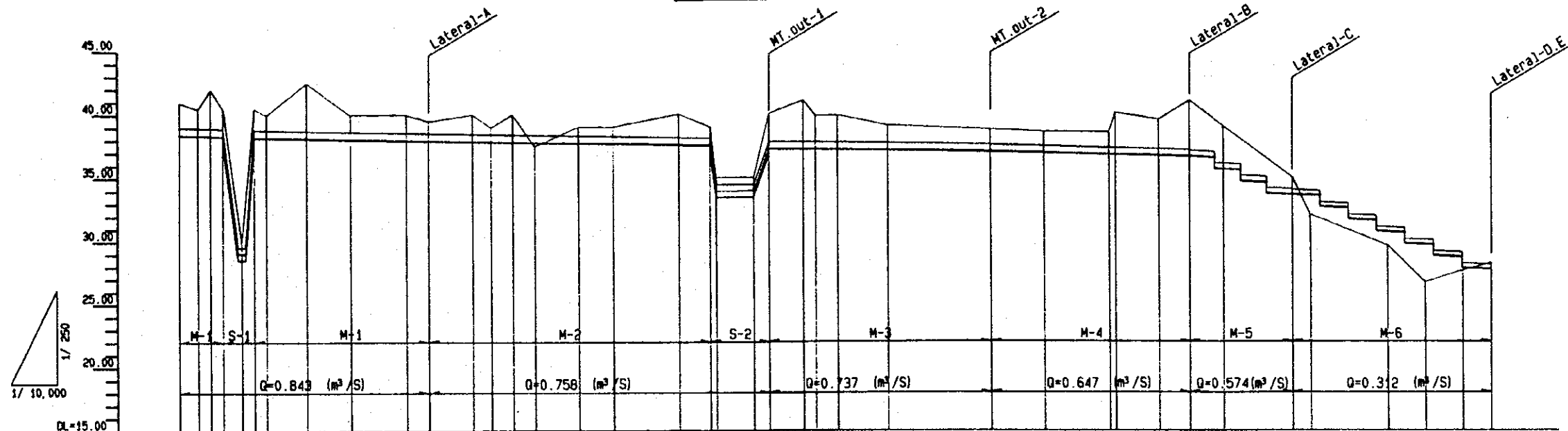
Main Canal				
NAME	Q (m <sup>3</sup> /s)	L (km)	B (m)	H (m)
M-1	0.843	0.80	1.20	1.00
M-2	0.758	1.09	1.20	0.90
M-3	0.737	0.71	1.20	0.90
M-4	0.647	0.64	1.20	0.90
M-5	0.574	0.33	1.00	0.80
M-6	0.312	0.64	0.80	0.70
<b>Total</b>		<b>4.21</b>		
Lateral-A				
A-1	0.085	0.44	0.50	0.50
A-2	0.066	0.96	0.40	0.50
A-3	0.021	0.98	0.30	0.40
<b>Total</b>		<b>2.38</b>		
Lateral-B				
B-1	0.073	1.43	0.30	0.60
B-2	0.069	0.87	0.30	0.60
B-3	0.066	0.78	0.30	0.60
B-4	0.025	0.46	0.30	0.50
B-5	0.024	0.42	0.30	0.50
B-6	0.018	0.27	0.30	0.40
<b>Total</b>		<b>4.23</b>		
Lateral-C				
NAME	Q (m <sup>3</sup> /s)	L (km)	B (m)	H (m)
C-1	0.202	0.02	0.70	0.70
C-2	0.126	0.48	0.60	0.60
C-3	0.117	0.59	0.60	0.60
C-4	0.046	0.33	0.50	0.50
<b>Total</b>		<b>1.42</b>		
Lateral-D				
D-1	0.071	0.34	0.50	0.50
D-2	0.060	0.15	0.50	0.50
<b>Total</b>		<b>0.49</b>		
Lateral-E				
E-1	0.218	0.80	0.80	0.70
E-2	0.181	0.27	0.70	0.70
E-3	0.126	0.42	0.60	0.70
E-4	0.049	0.51	0.50	0.50
<b>Total</b>		<b>2.00</b>		

LEGEND

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

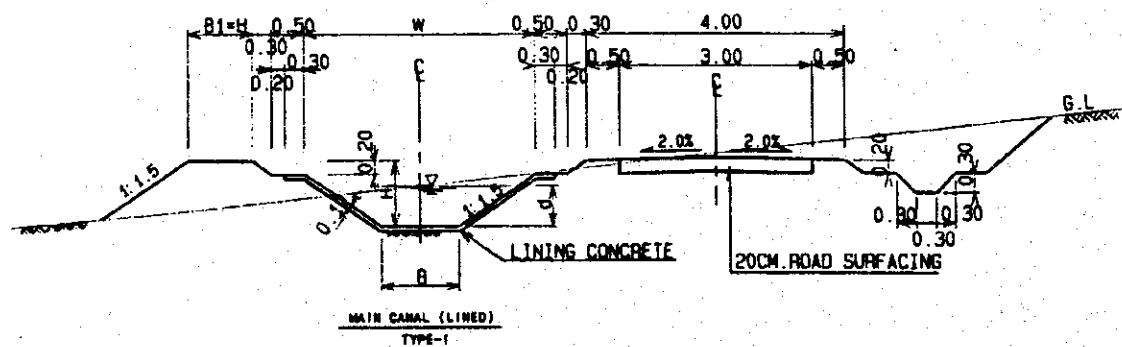


# PROFILE OF MAIN CANAL



STATION	LENGTH	DISTANCE	N.G. EL.	P.L.A.N.		SLOPE
				C.B. EL.	W.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	38.2		
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	60.00	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	38.50			
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	27.7		

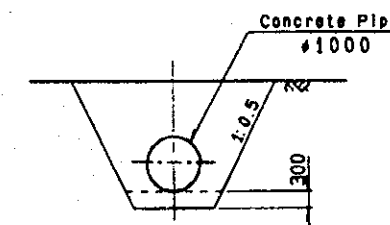
TYPICAL CANAL SECTIONS



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

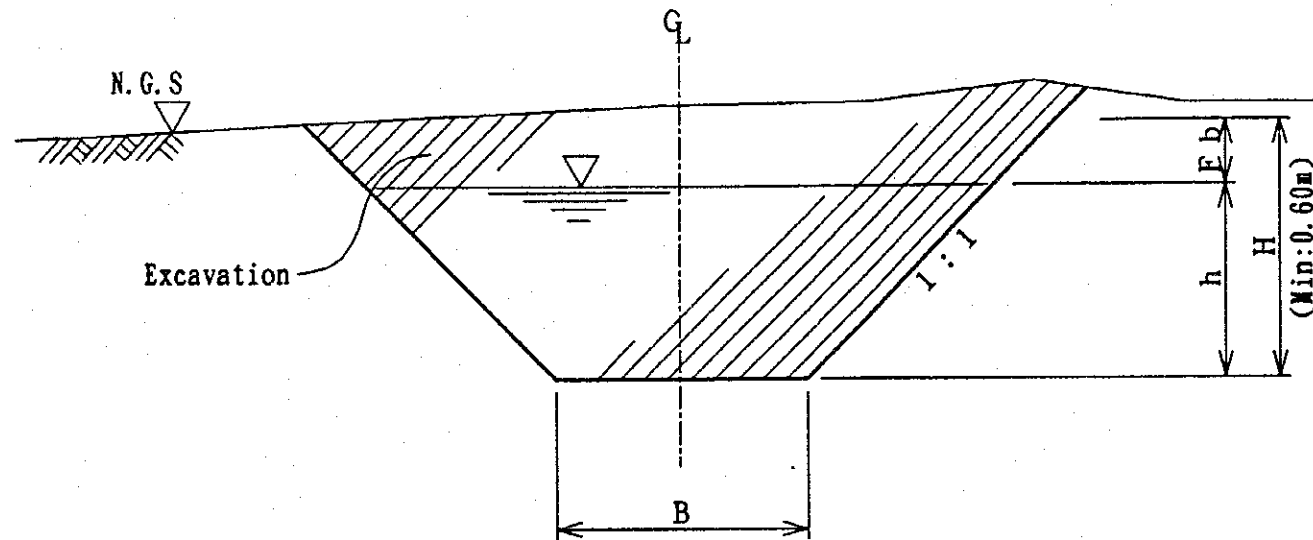


THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

Profile of Irrigation Canal

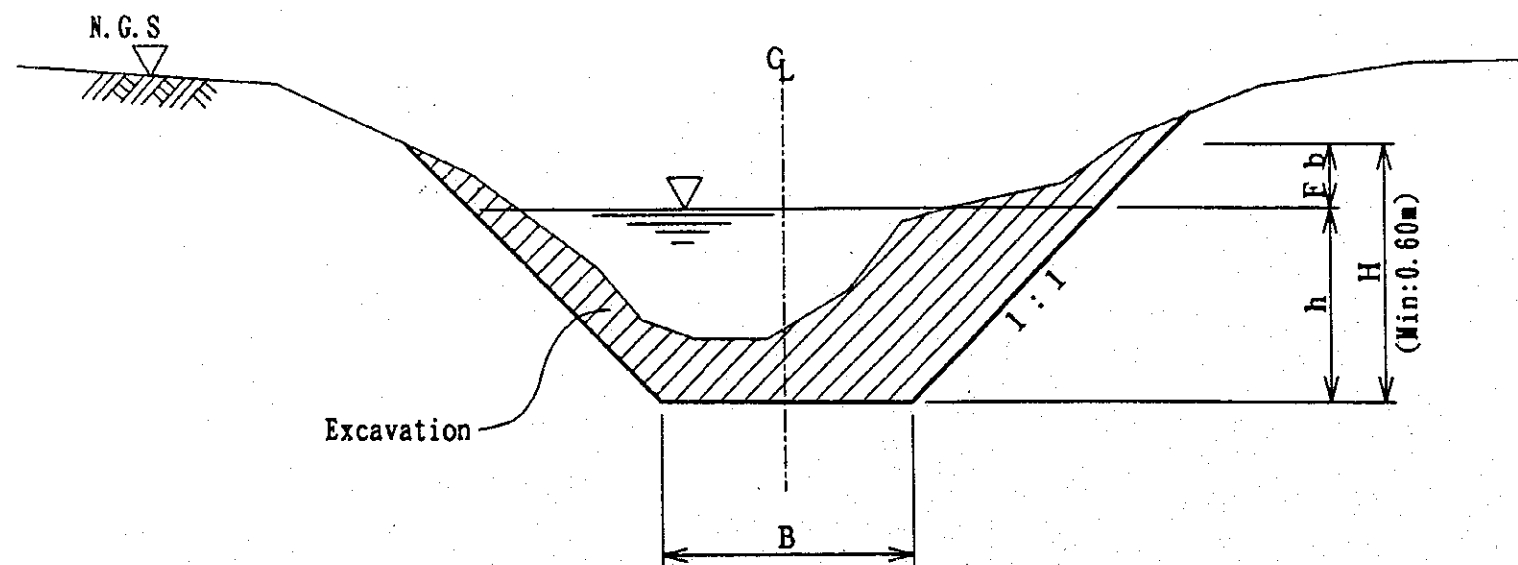






Typical Section of New Canal

NAME	L (km)	Q (m <sup>3</sup> /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



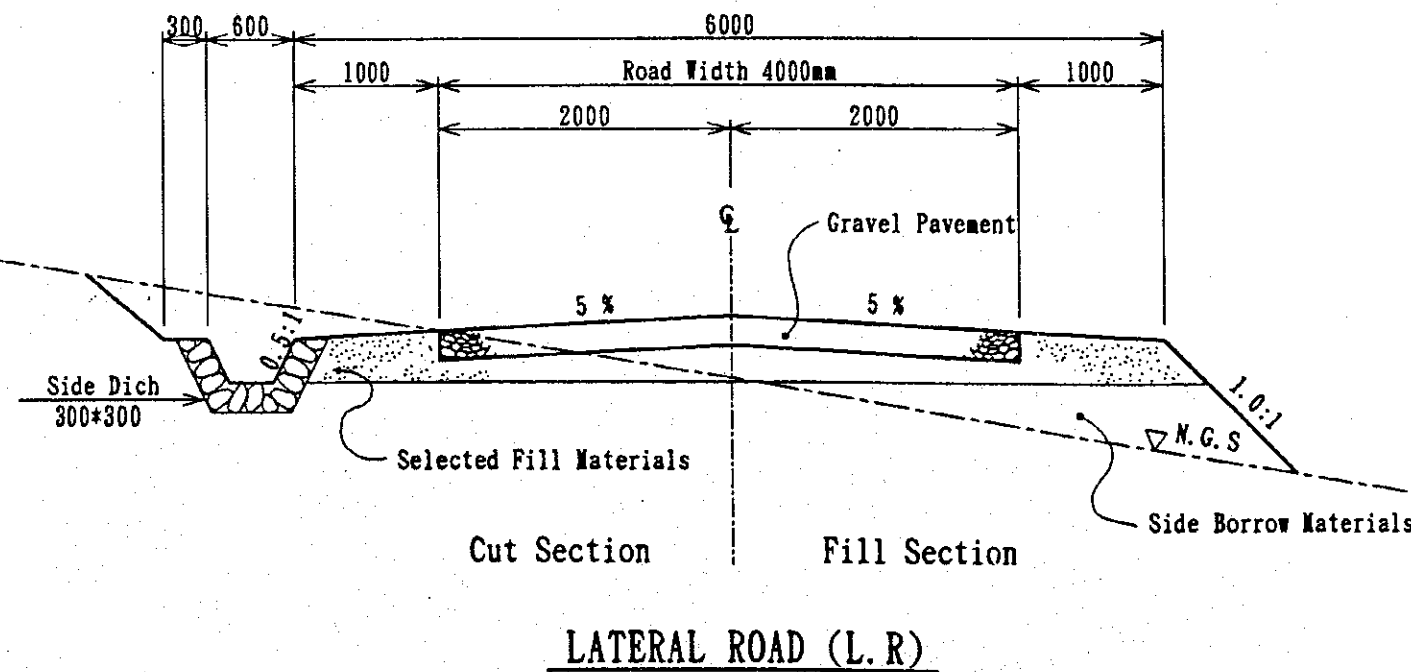
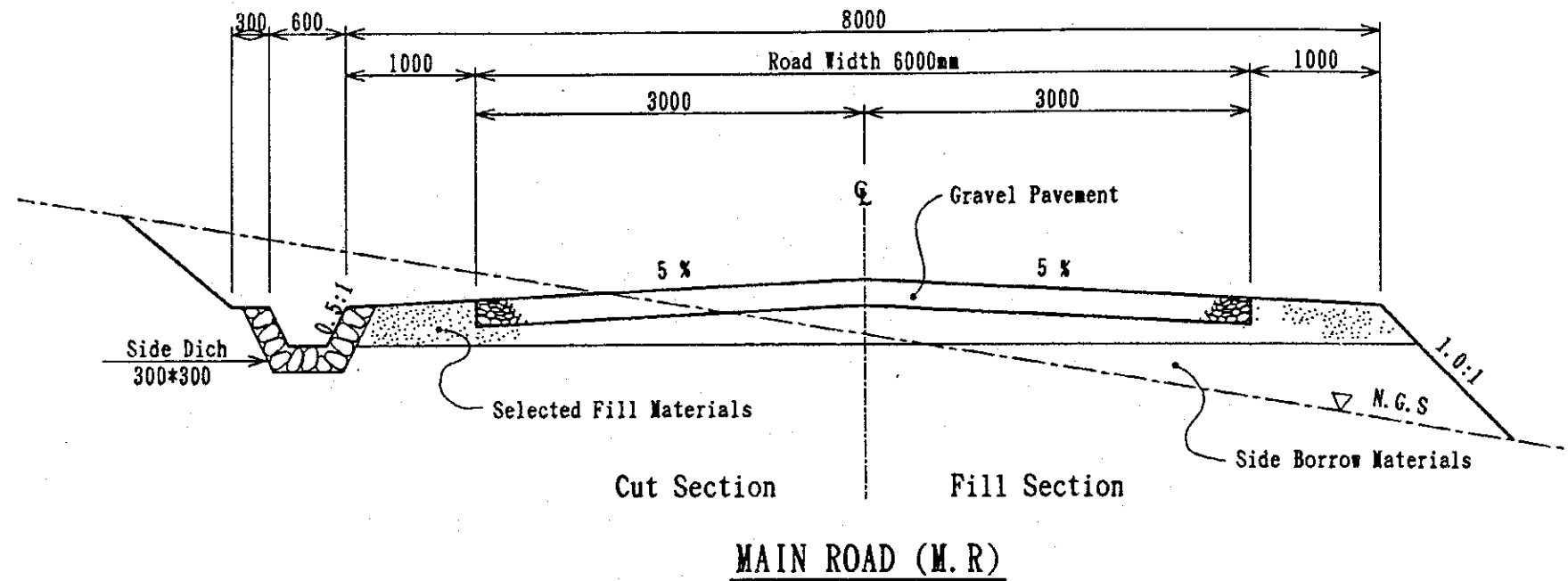
Typical Section of Excavated Creek

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

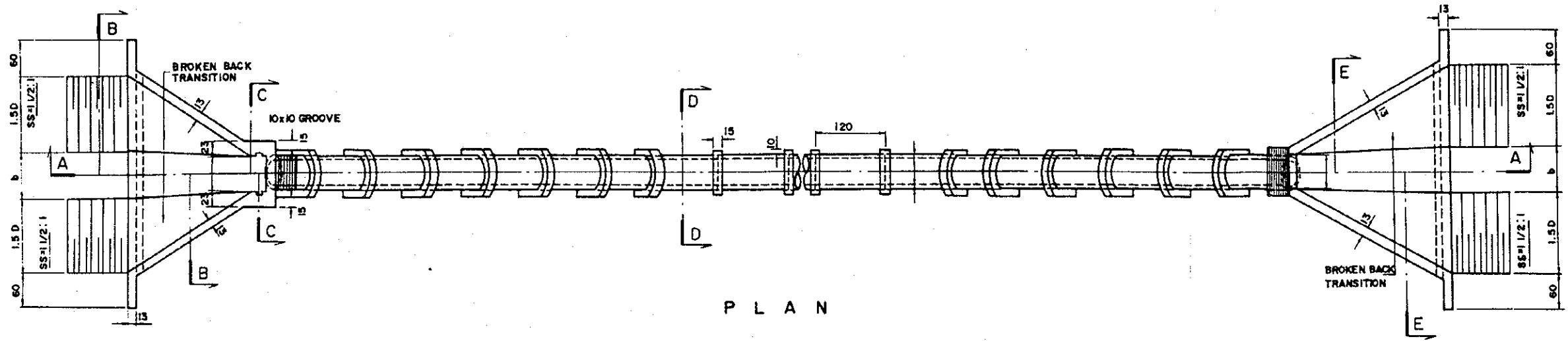
Main Load			
NAME	Length (km)	Total Width (m)	Effective Width (m)
M.R-1	3.50	8.00	6.00
-2	1.28	8.00	6.00
-3	3.50	8.00	6.00
-4	3.50	8.00	6.00
<b>Total</b>	<b>11.78</b>		
Lateral Load			
L.R-1	Length (km)	Total Width (m)	Effective Width (m)
L.R-1	1.74	6.00	4.00
-2	1.79	6.00	4.00
-3	1.67	6.00	4.00
-4	2.00	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
<b>Total</b>	<b>29.16</b>		

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

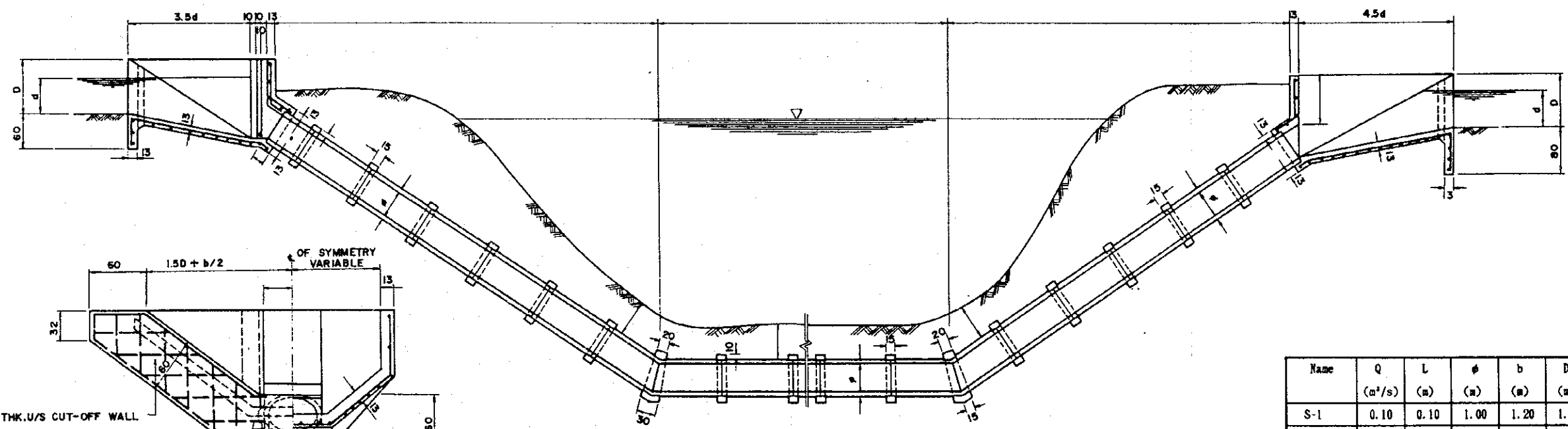
Typical Farm to Market Road Section



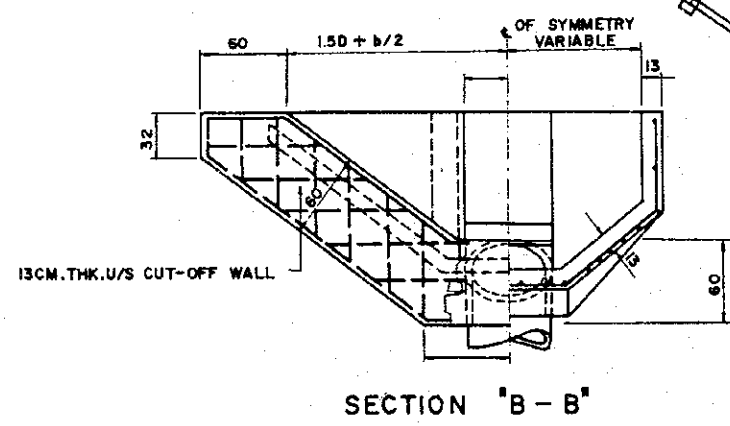




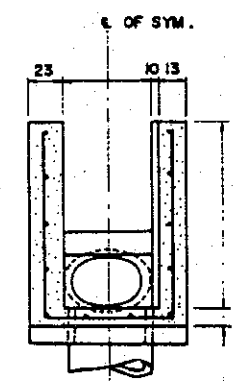
P L A N



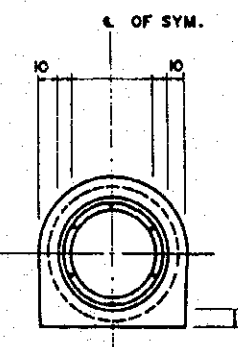
LONGITUDINAL SECTION "A - A"



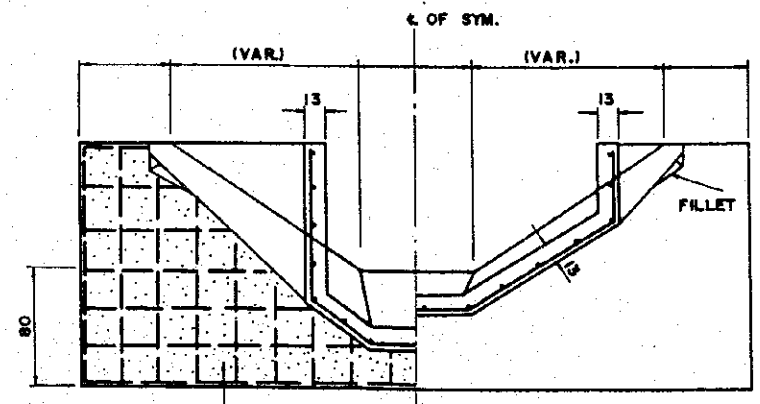
SECTION "B - B"



SECTION "C - C"



SECTION "D - D"



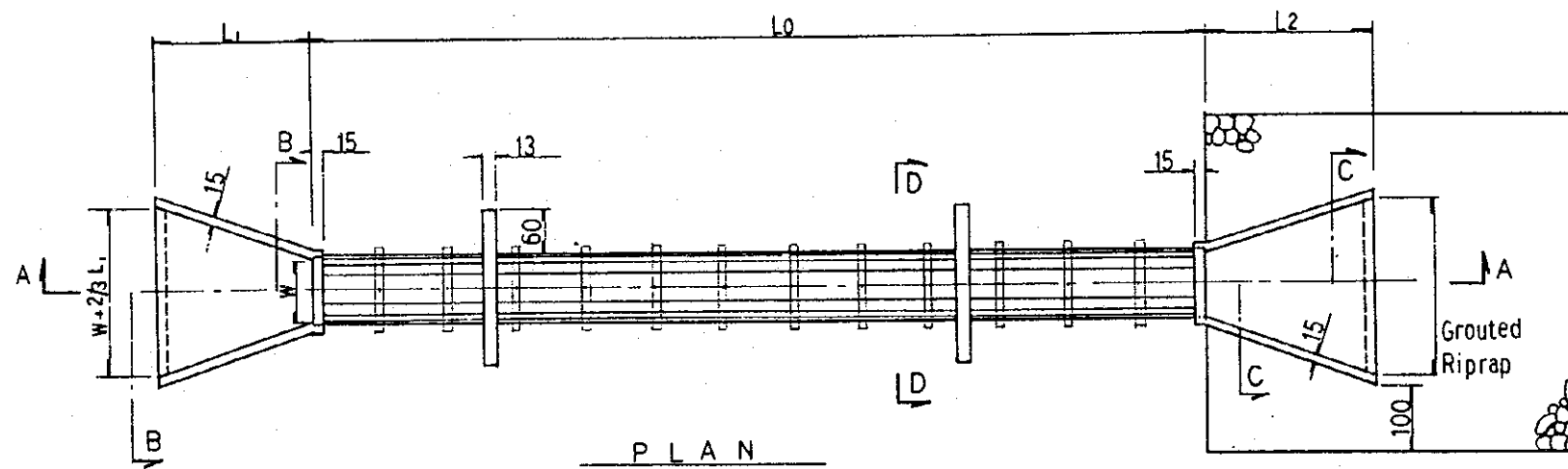
SECTION "E - E"

Name	Q (m <sup>3</sup> /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

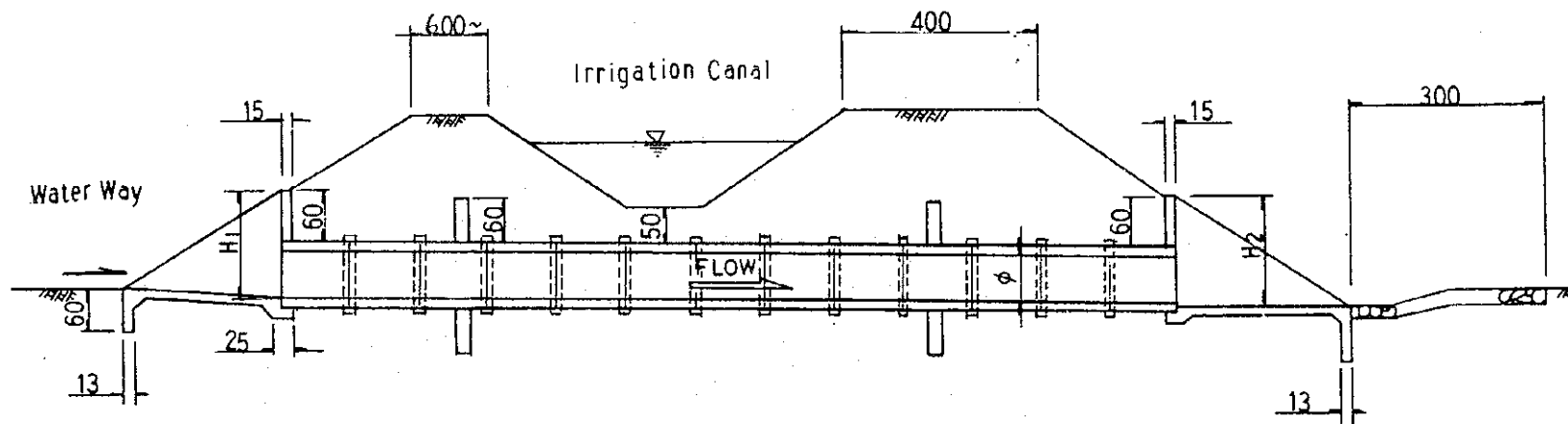
Canal R.C. Pipe Siphon



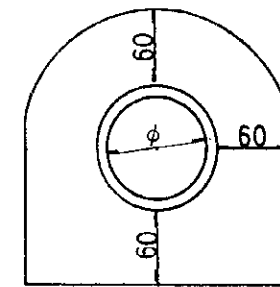


PLAN  
SCALE 1:100

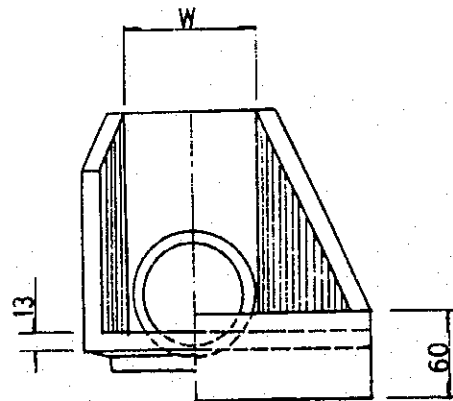
Discharge (m <sup>3</sup> /sec)	φ (m)	L0 (m)	L1, L2 (m)	H1, H2 (m)	V (m)
0~0.30	0.60		1.95	1.30	0.80
~0.60	0.80		2.25	1.50	1.00
~1.1	1.00		2.55	1.70	1.30
~2.2	1.00*2		2.55	1.70	2.50



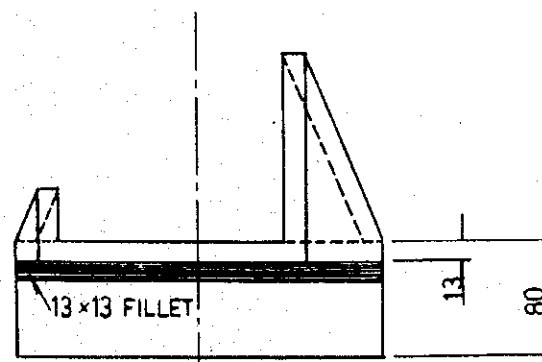
SECTION A-A  
SCALE 1:100



SECTION D-D  
SCALE 1:60



SECTION B-B  
SCALE 1:60



SECTION C-C  
SCALE 1:60

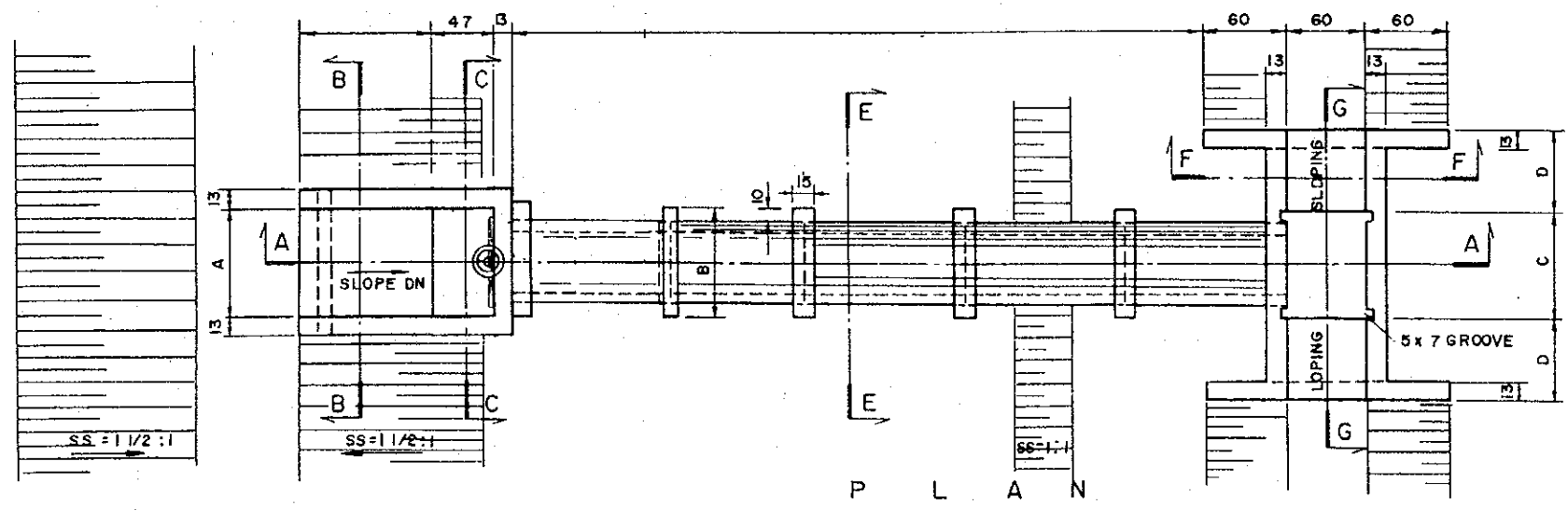
THE FEASIBILITY STUDY ON THE  
DEVELOPMENT OF VIABLE AGRARIAN  
REFORM COMMUNITIES IN SOUTHERN  
PALAWAN

Drainage Crossing

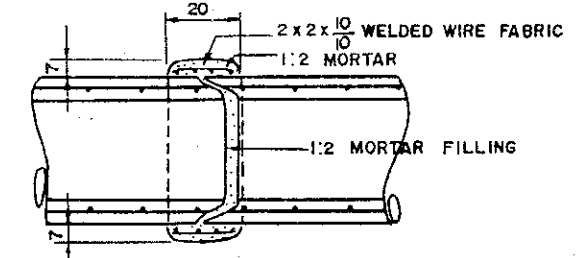
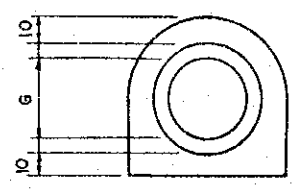
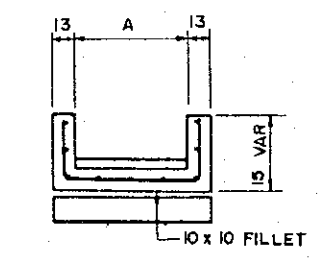
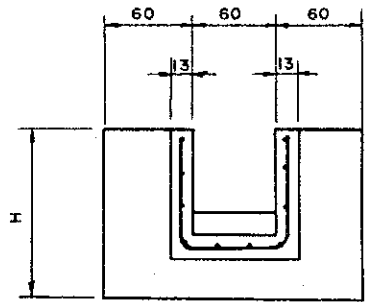
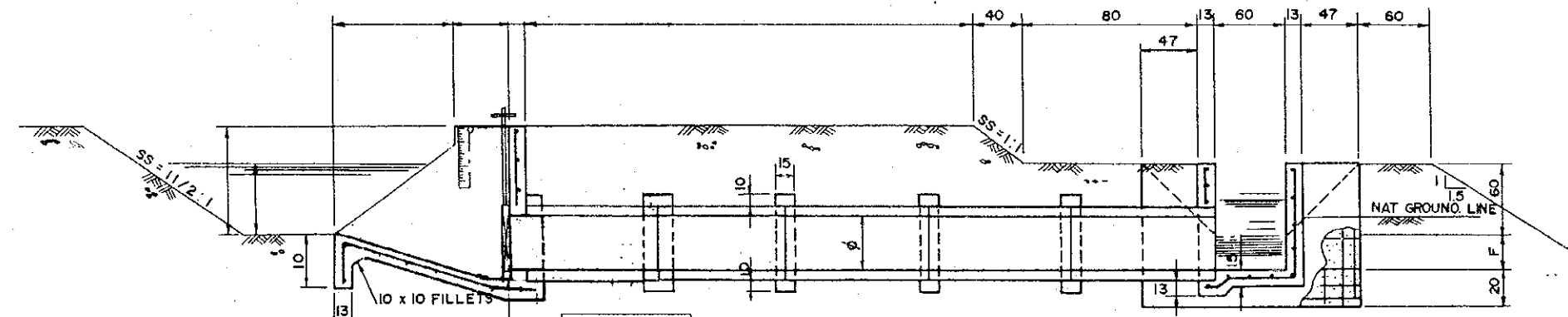


Dr-19





Discharge (m <sup>3</sup> /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		

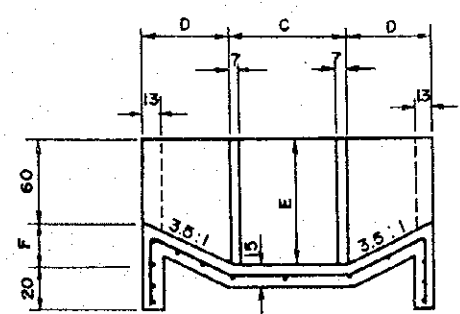
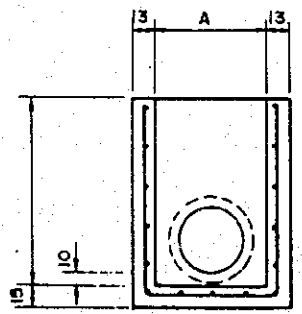


SECTION "B-B"

SECTION "E-E"

ALTERNATE PIPE COLLAR JOINT

SECTION "F-F"



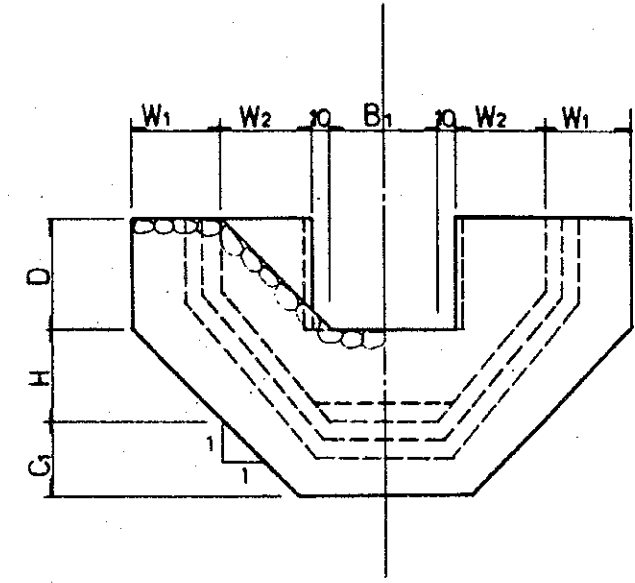
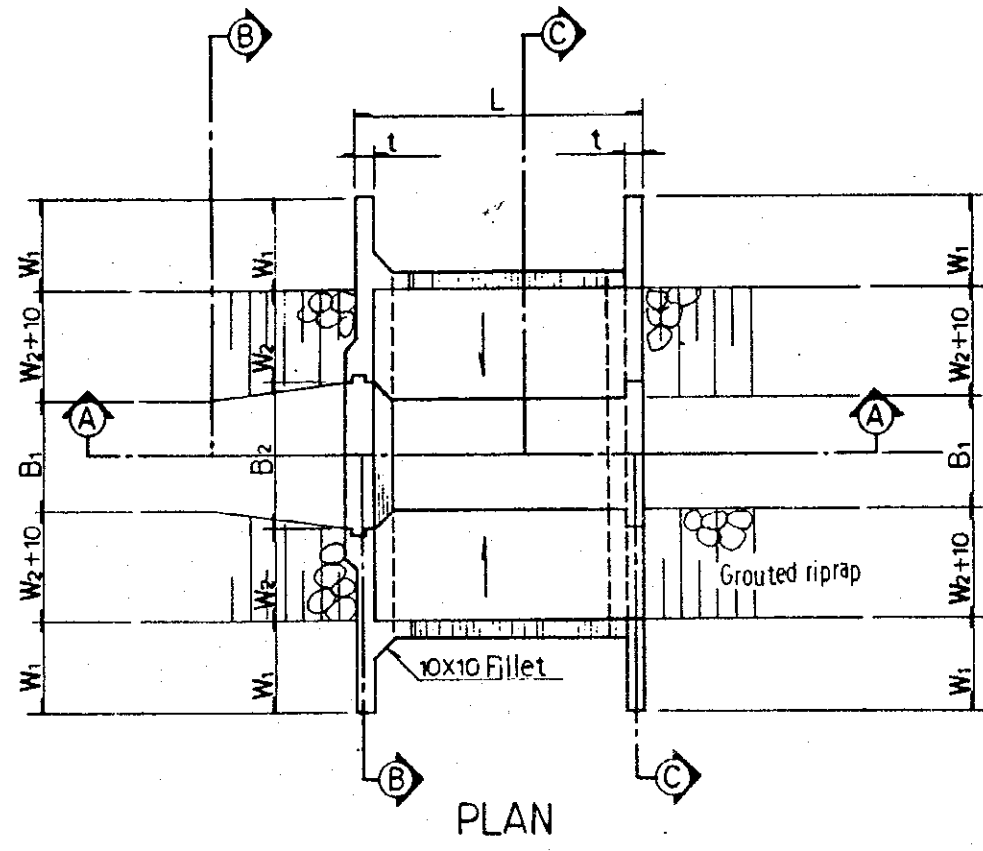
SECTION "C-C"

SECTION "G-G"

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

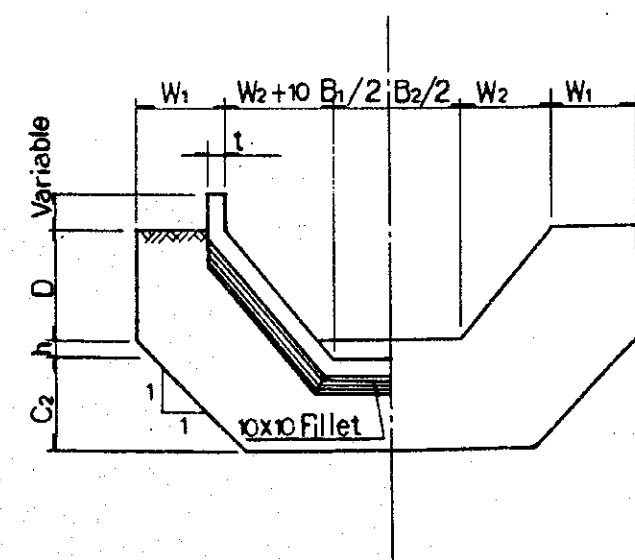
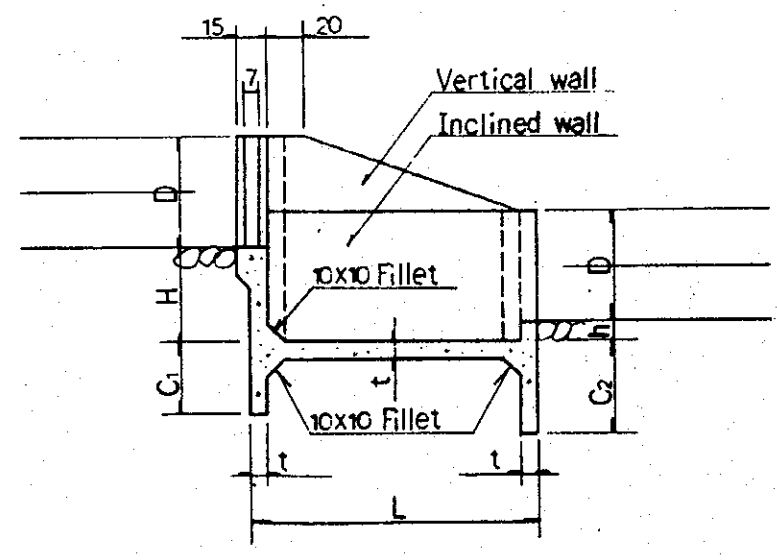
Diversion/Turnouts





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

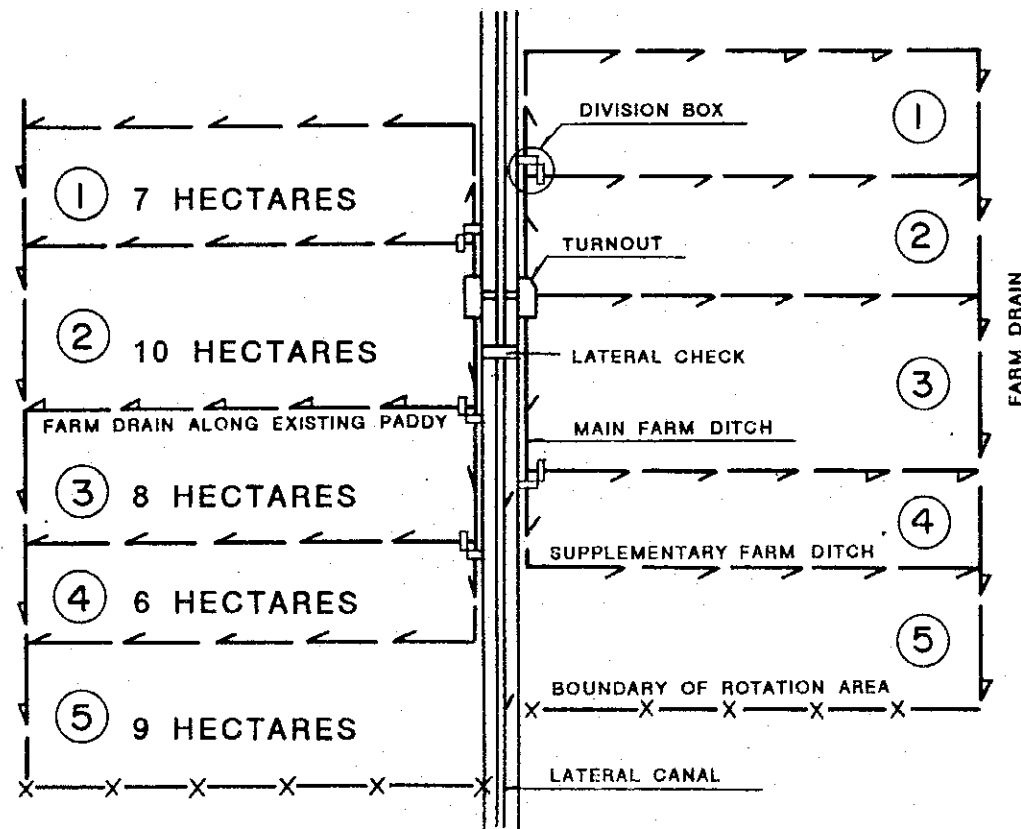
Name	t (m)	W1 (m)	W1 (m)	C1 (m)	C2 (m)
Type-1	0.10	0.50		0.40	0.45
Type-2	0.10	0.50		0.40	0.45



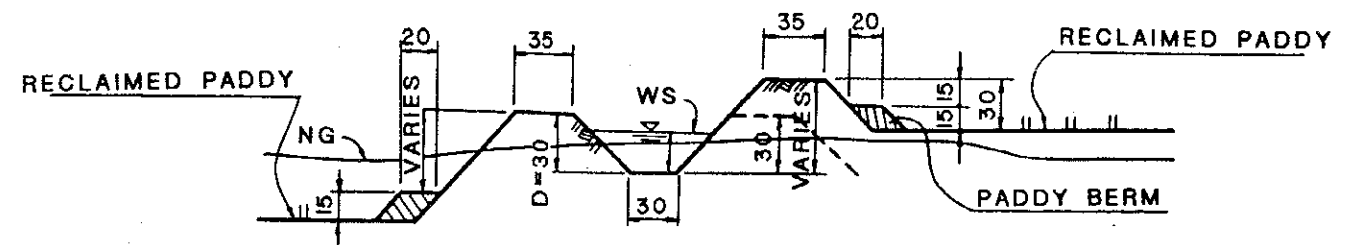
THE FEASIBILITY STUDY ON THE DEVELOPMENT OF VIABLE AGRARIAN REFORM COMMUNITIES IN SOUTHERN PALAWAN

Drop

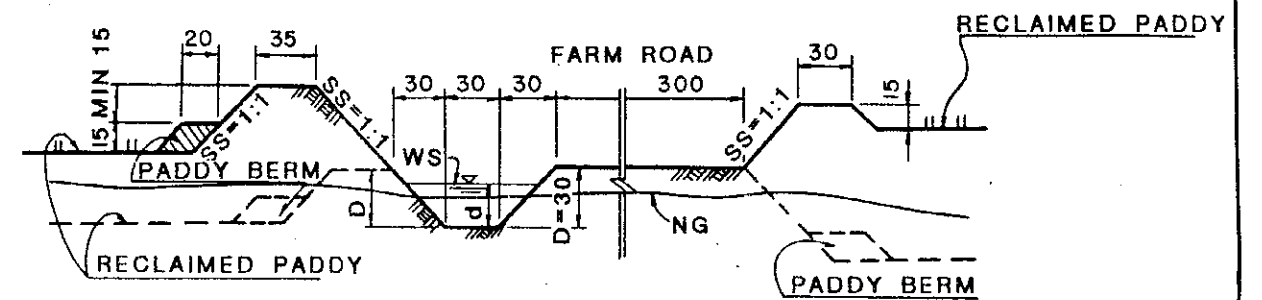




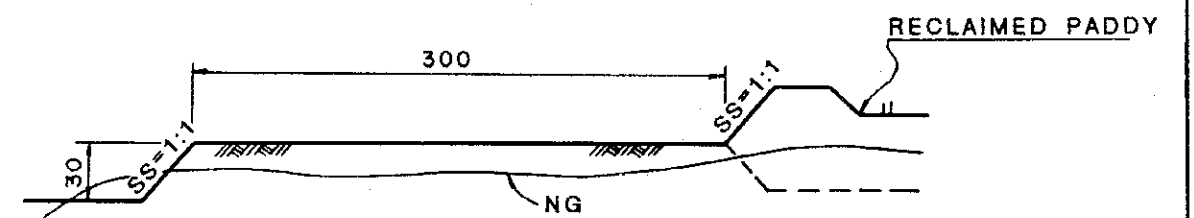
LAYOUT OF TWO ROTATION AREAS



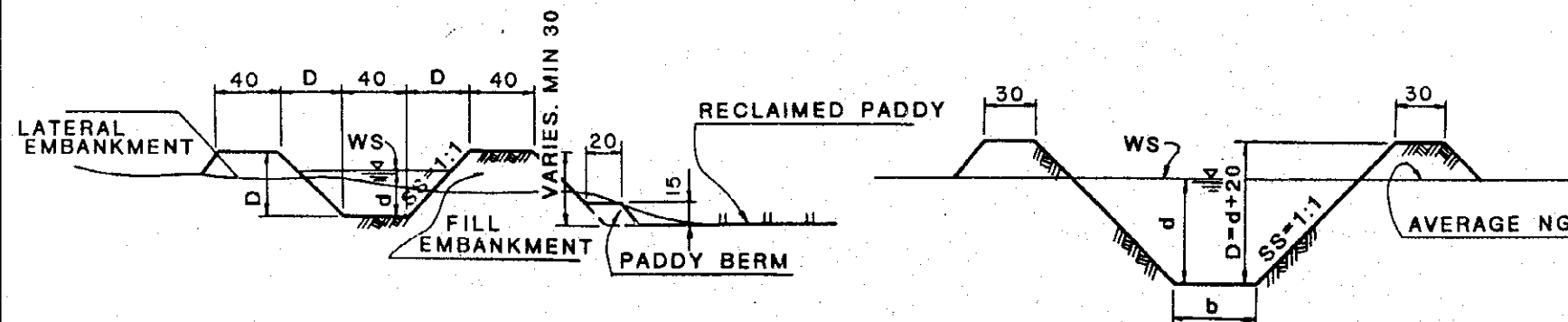
SUPPLEMENTARY FARM DITCH IN THE RECLAIMED AREA



SUPPLEMENTARY FARM DITCH AND FARM ROAD



FARM ROAD



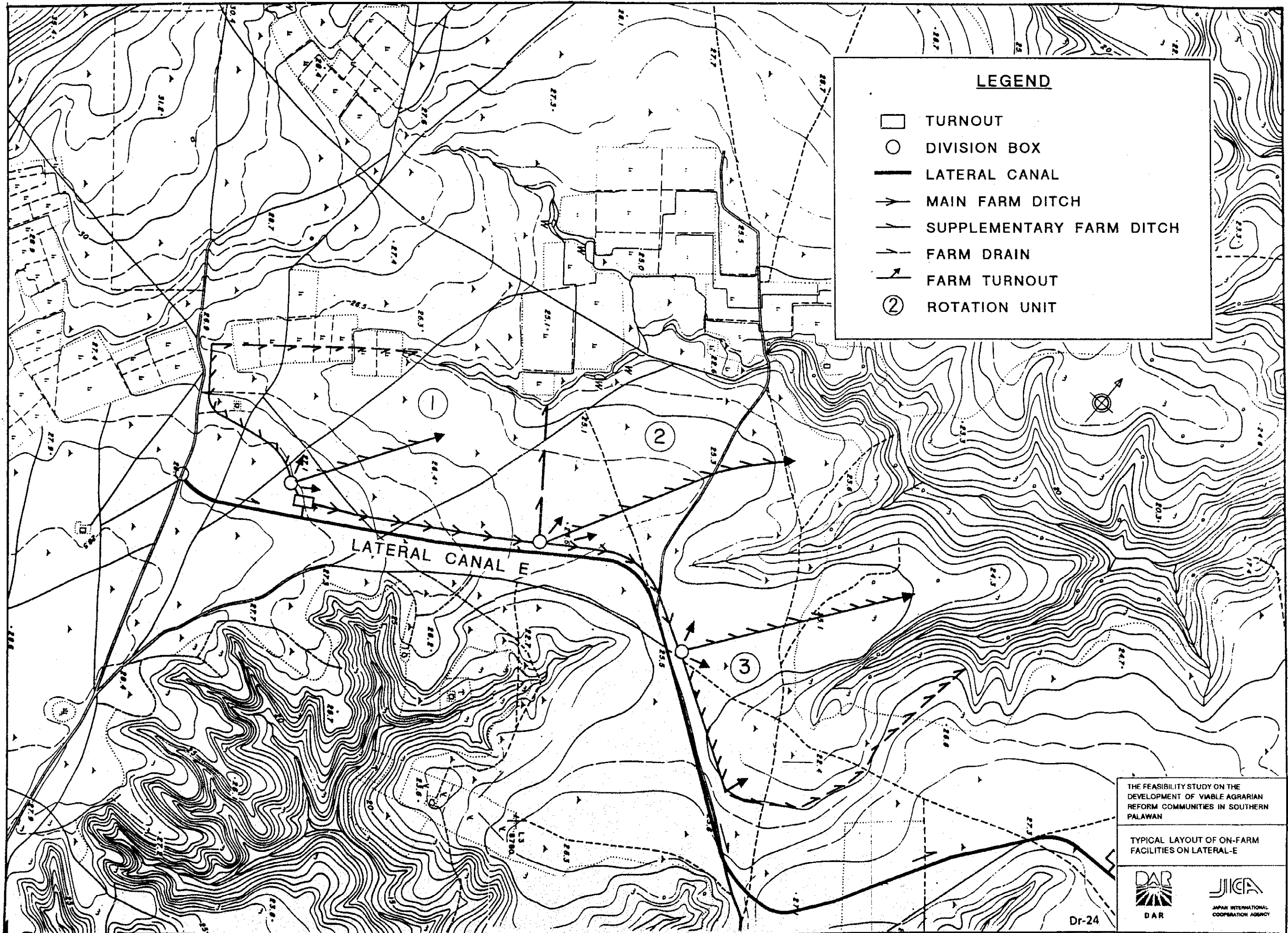
MAIN FARM DITCH ADJACENT TO LATERAL

FARM DRAIN

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

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  
PALAWAN

TYPICAL LAYOUT OF ON-FARM  
FACILITIES ON LATERAL-E



JICA