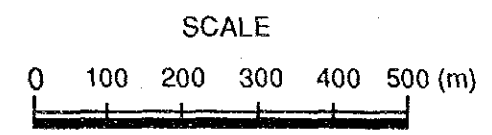


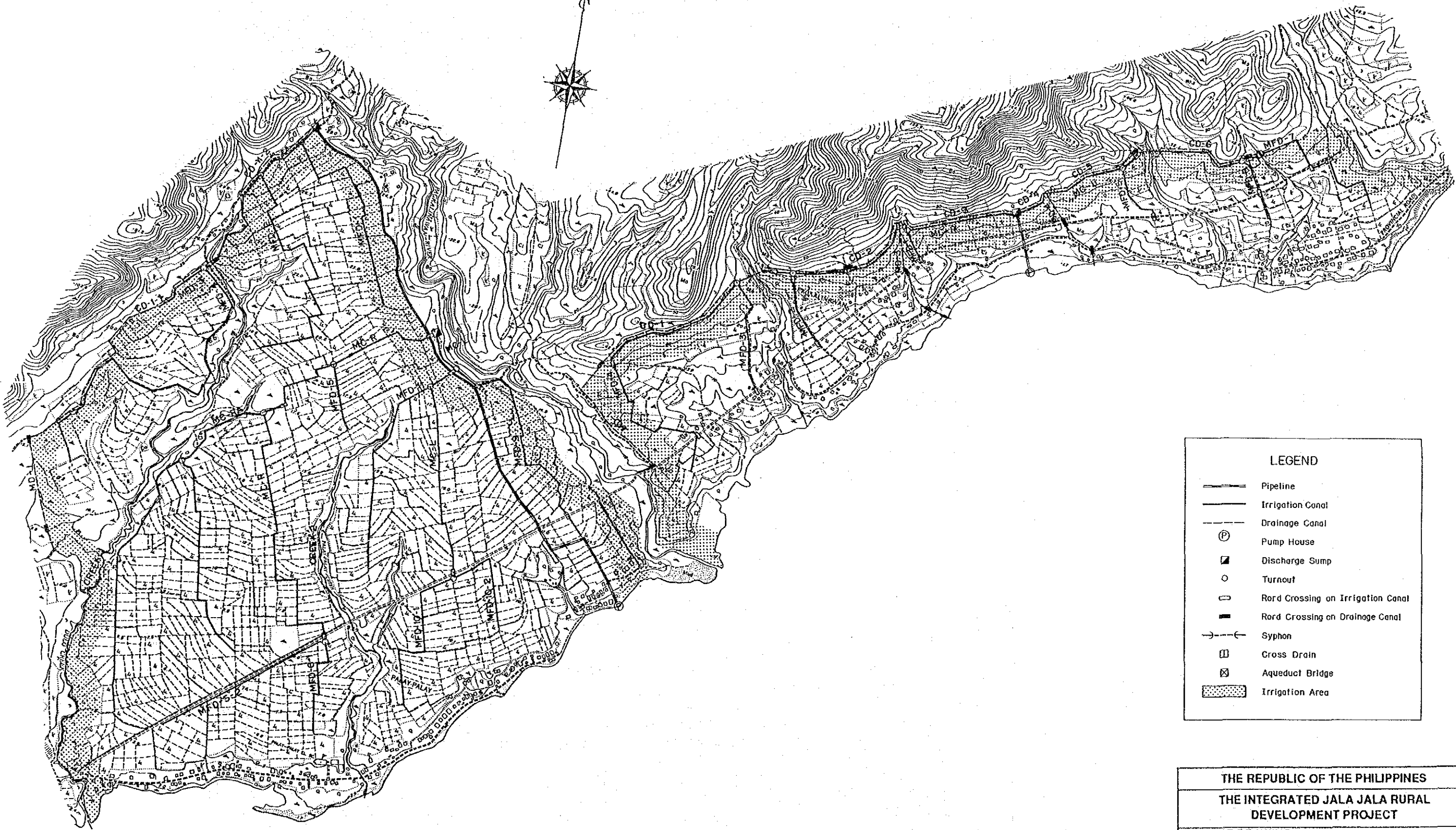
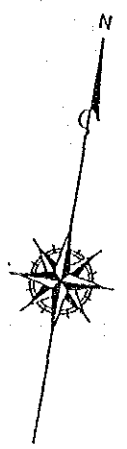


LEGEND

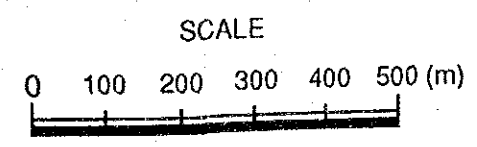
	Pipeline
	Irrigation Canal
	Drainage Canal
	Pump House
	Discharge Sump
	Turnout
	Road Crossing on Irrigation Canal
	Road Crossing on Drainage Canal
	Syphon
	Cross Drain
	Aqueduct Bridge
	Irrigation Area



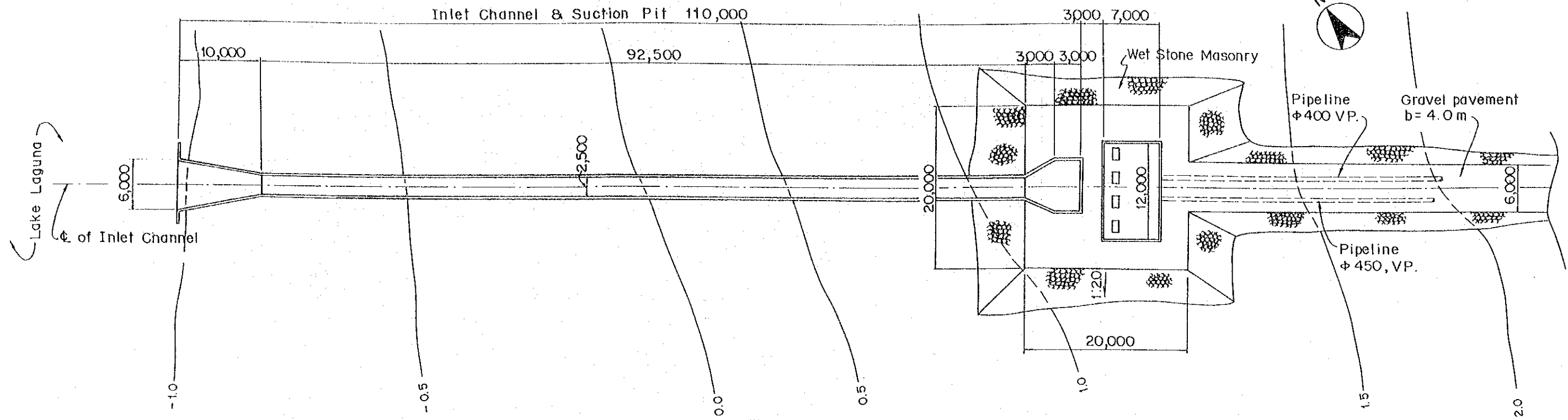
THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING	
IRRIGATION AND DRAINAGE FACILITIES Layout of Llano PCIS	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



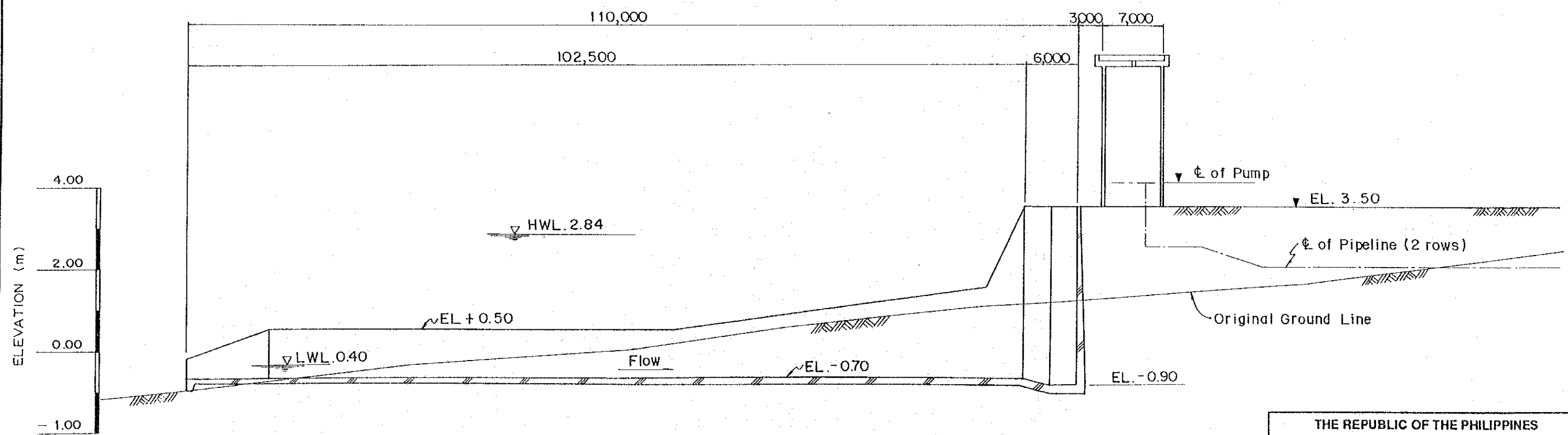
LEGEND	
	Pipeline
	Irrigation Canal
	Drainage Canal
	Pump House
	Discharge Sump
	Turnout
	Road Crossing on Irrigation Canal
	Road Crossing on Drainage Canal
	Syphon
	Cross Drain
	Aqueduct Bridge
	Irrigation Area



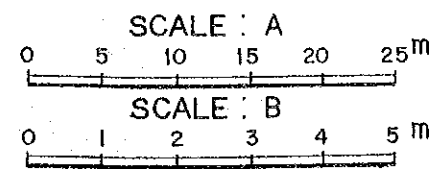
THE REPUBLIC OF THE PHILIPPINES		
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT		
TITLE OF DRAWING		
IRRIGATION AND DRAINAGE FACILITIES		
Layout of Palay Palay and Pagkalinawan PCISs		
Date		Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY		



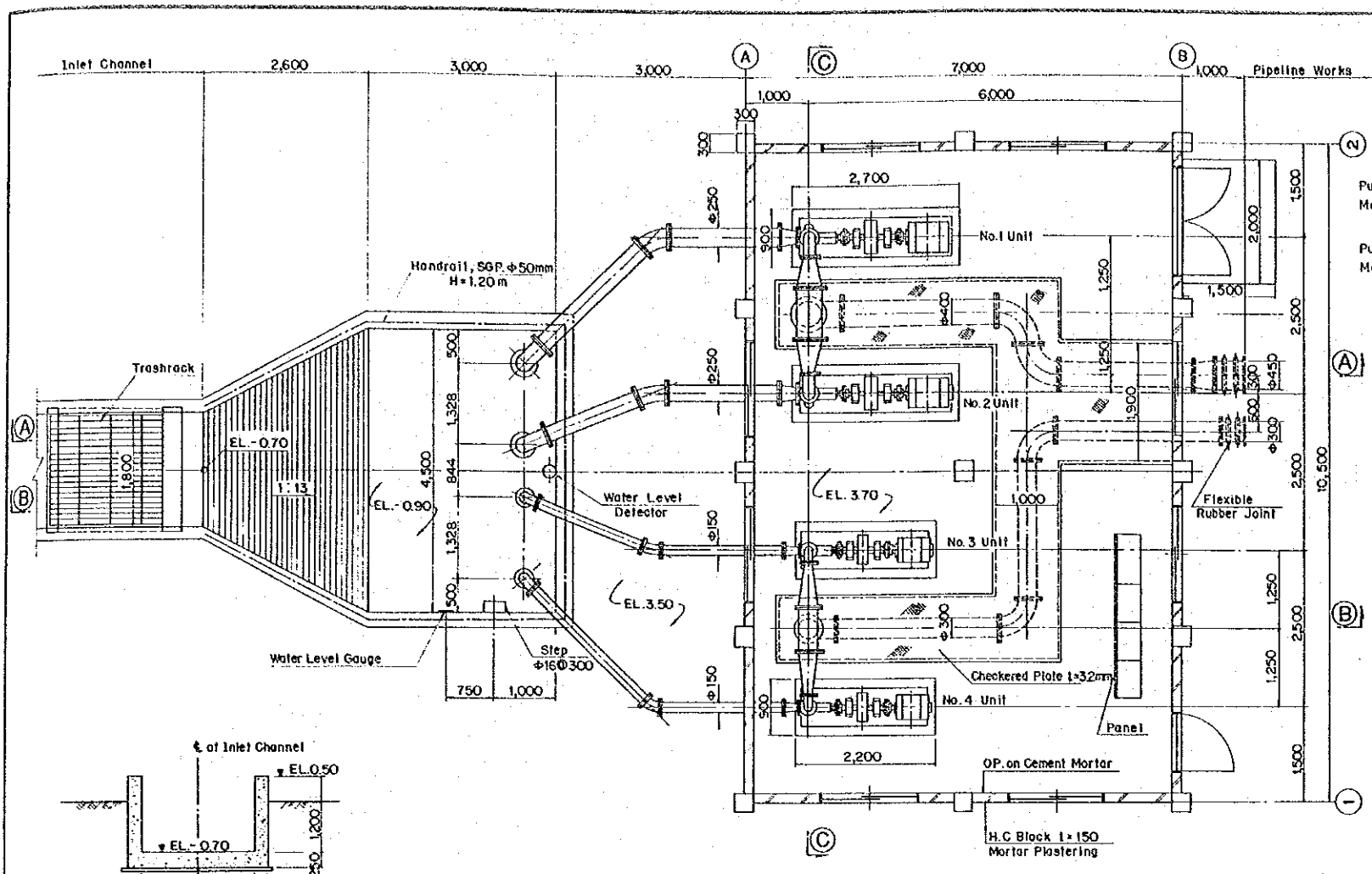
PLAN
SCALE : A



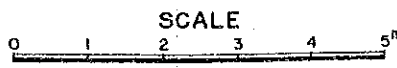
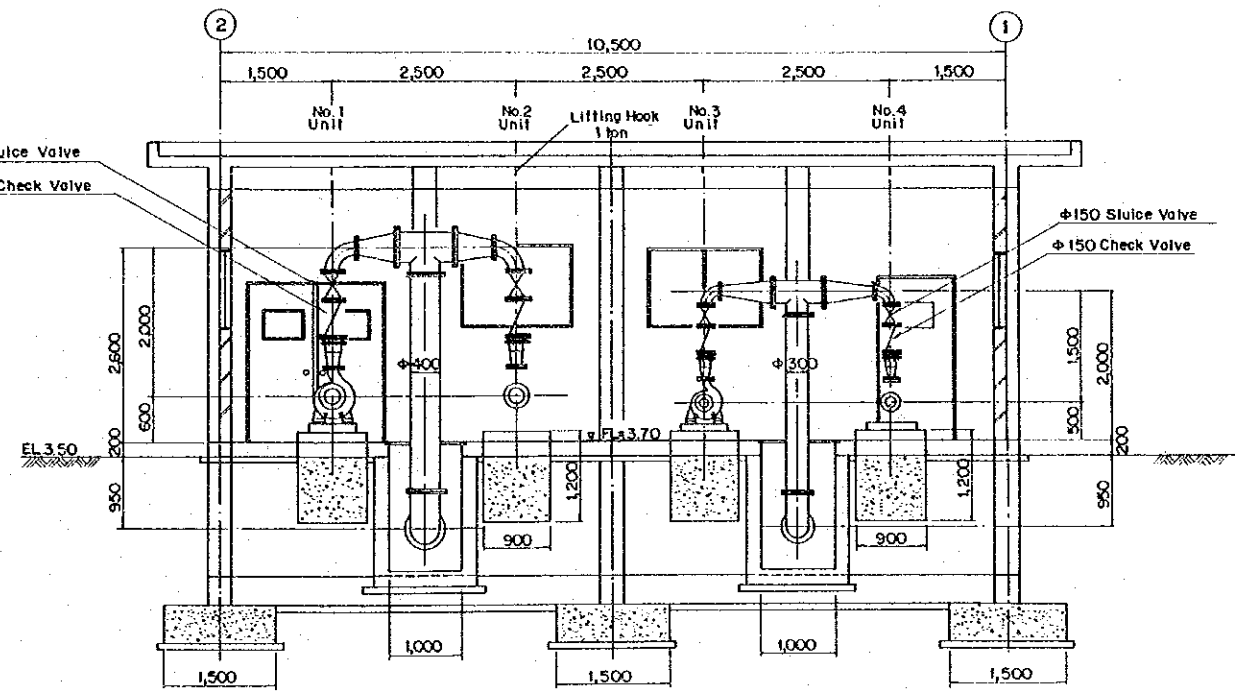
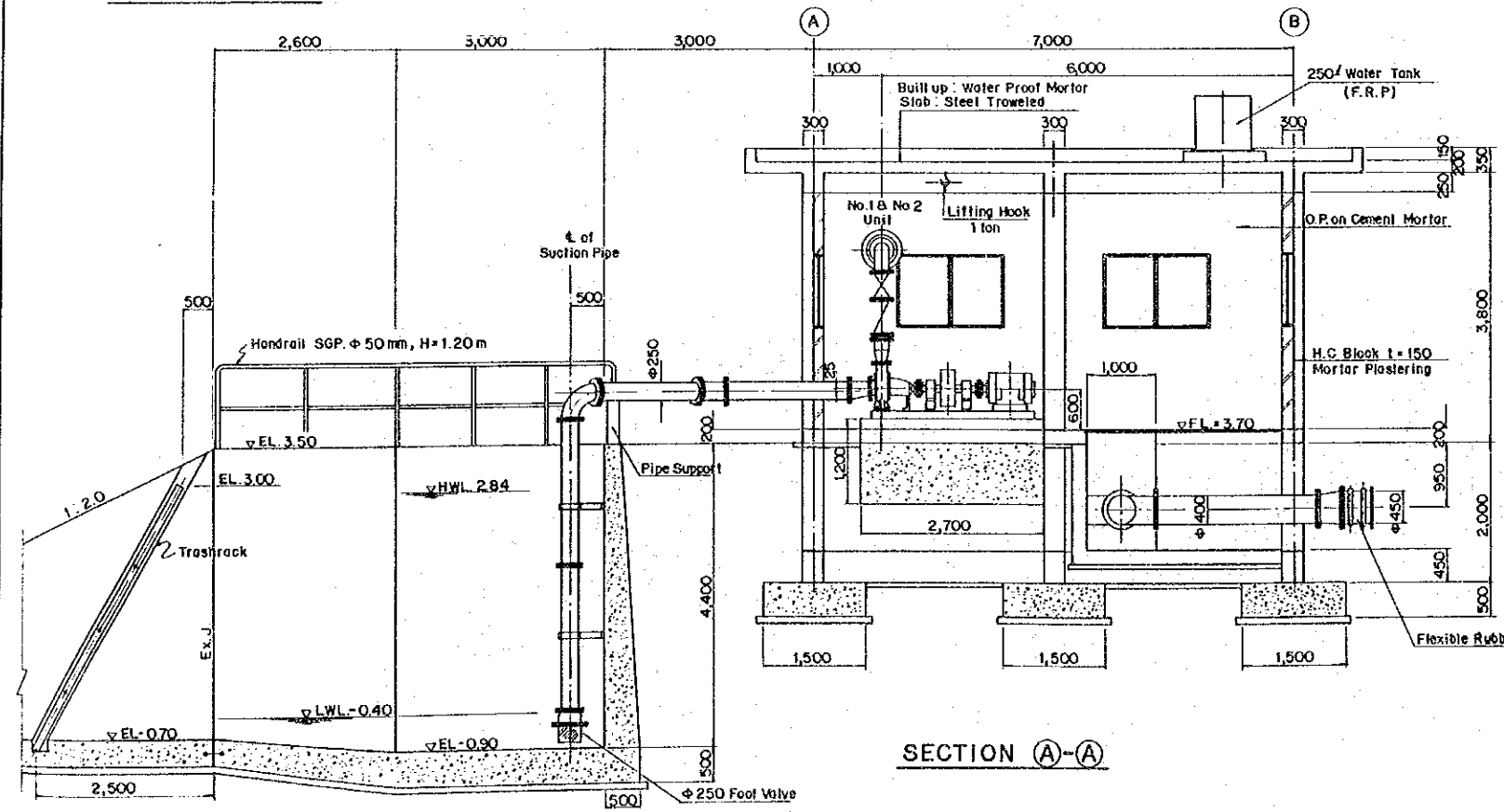
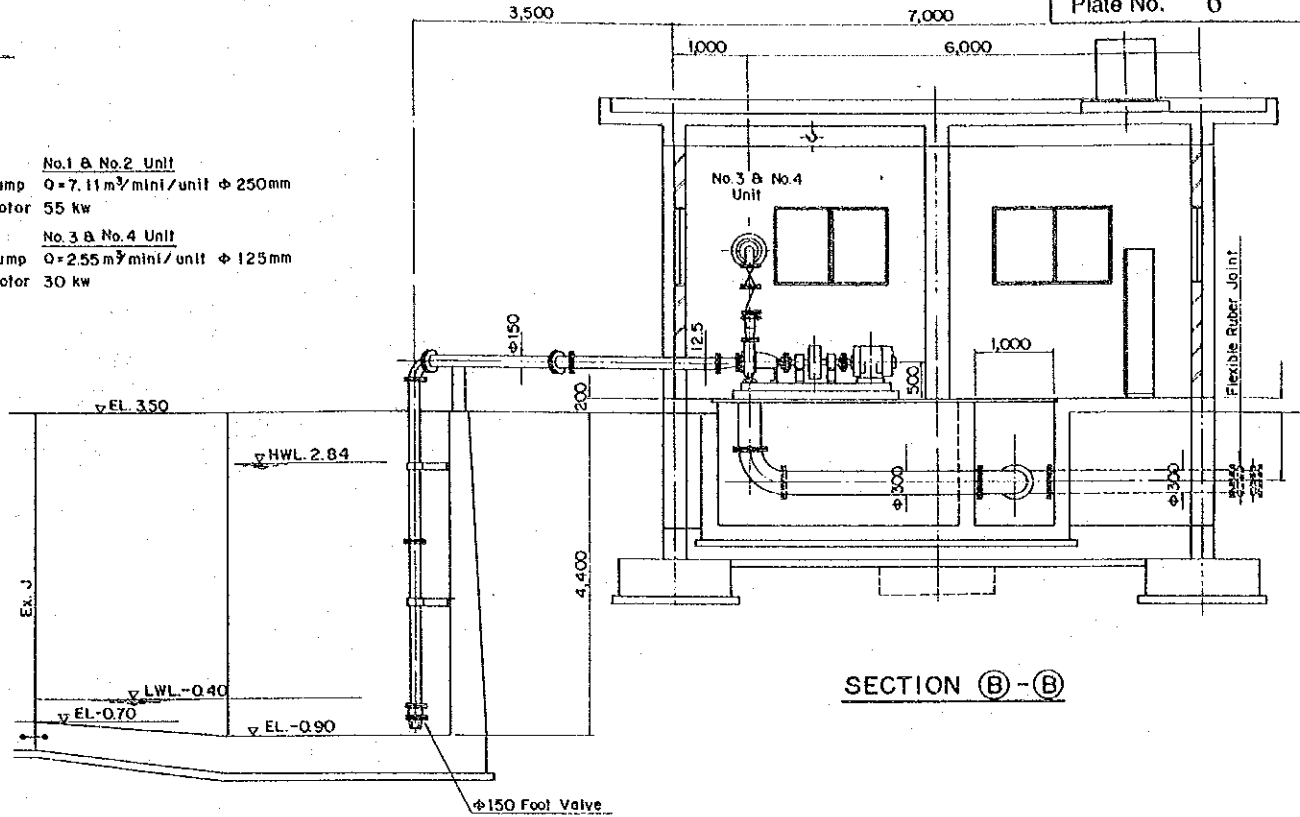
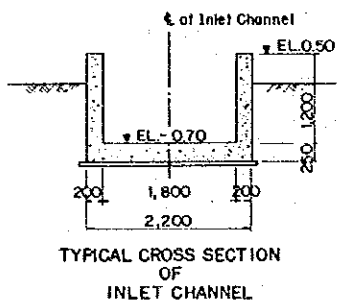
PROFILE
SCALE H= A
V= B



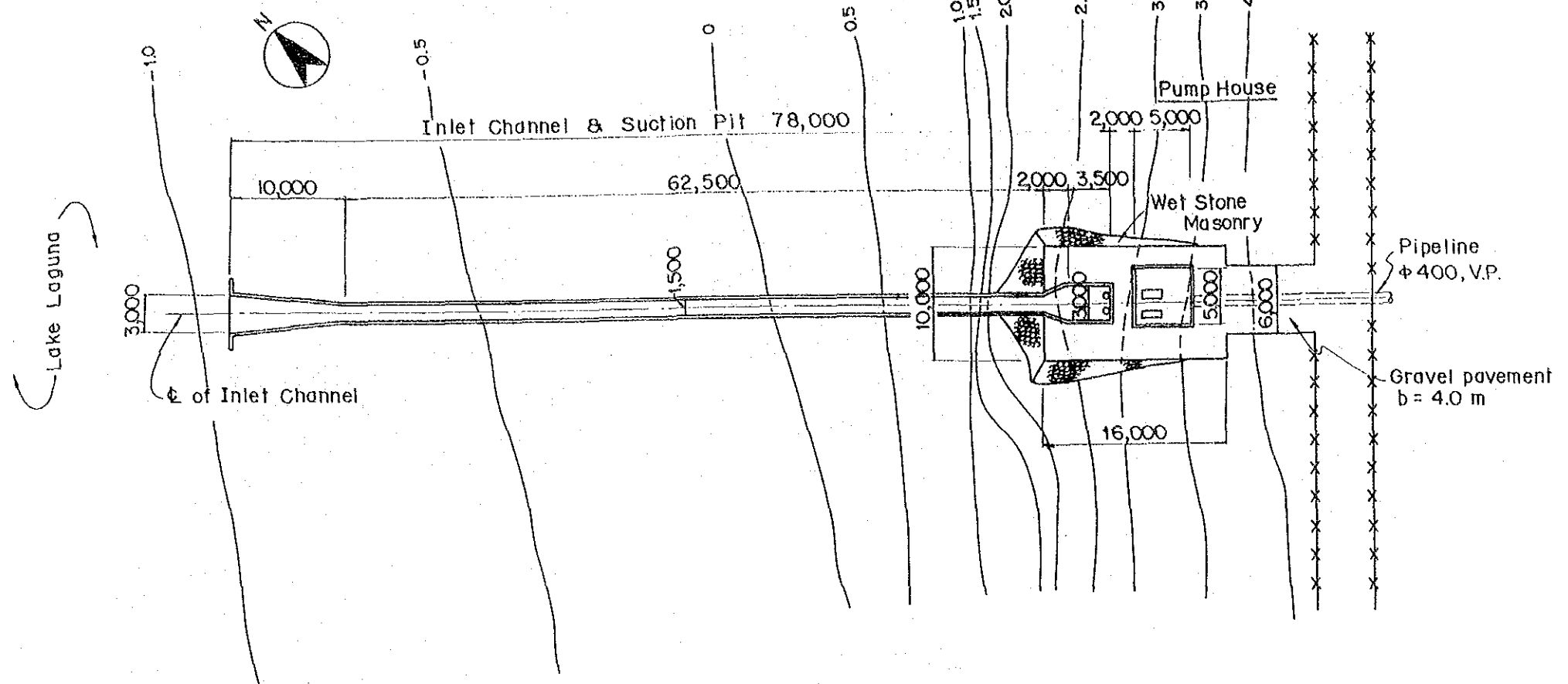
THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING IRRIGATION AND DRAINAGE FACILITIES Pump Station Sipsipin PCIS General Plan & Profile	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



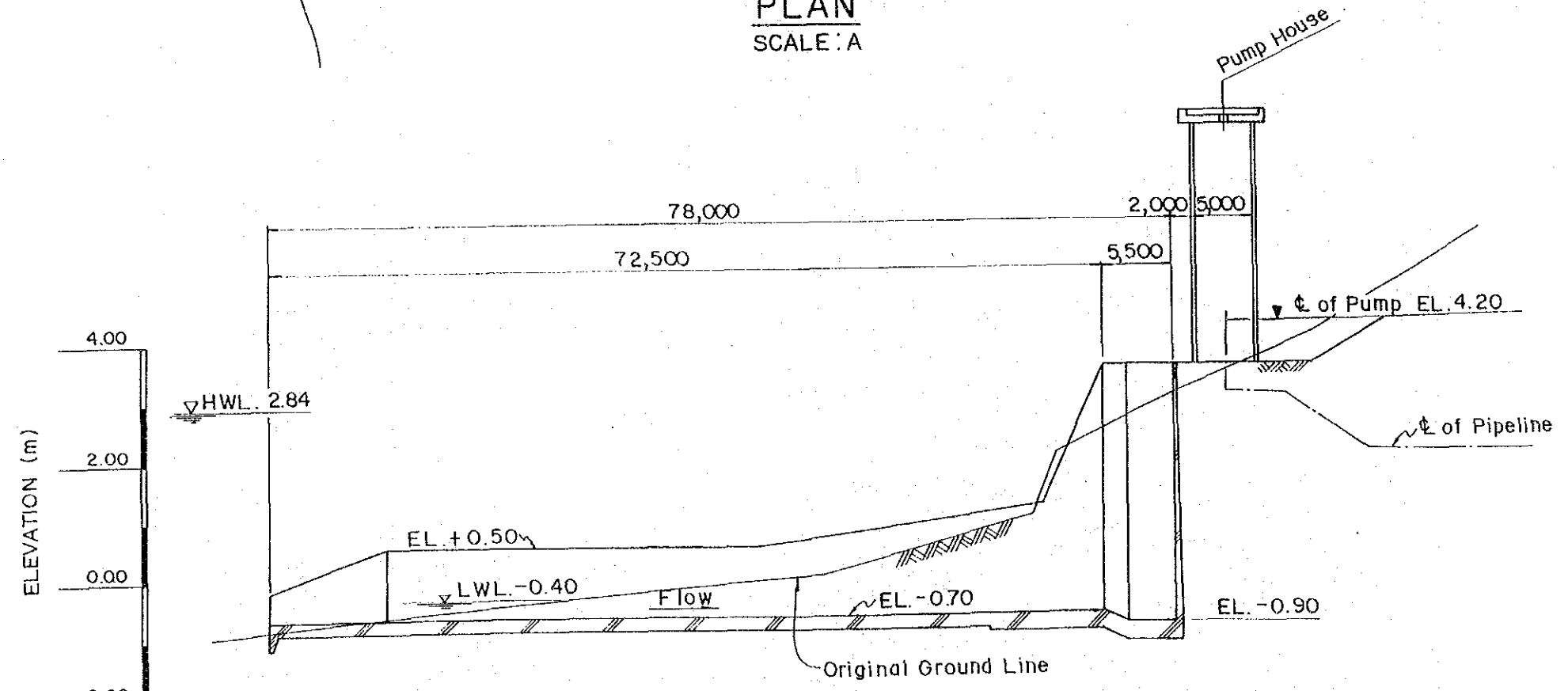
No. 1 & No. 2 Unit
 Pump $Q = 7.11 \text{ m}^3/\text{min}/\text{unit}$ $\phi 250\text{mm}$
 Motor 55 kw
 No. 3 & No. 4 Unit
 Pump $Q = 2.55 \text{ m}^3/\text{min}/\text{unit}$ $\phi 125\text{mm}$
 Motor 30 kw



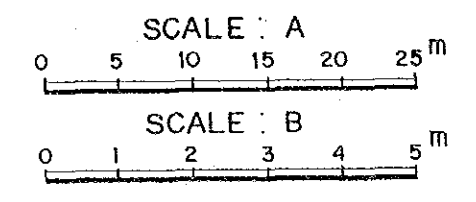
THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING	
IRRIGATION AND DRAINAGE FACILITIES	
Pump Station Sipsipin PCIS	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



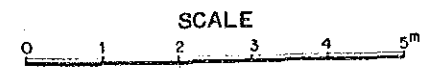
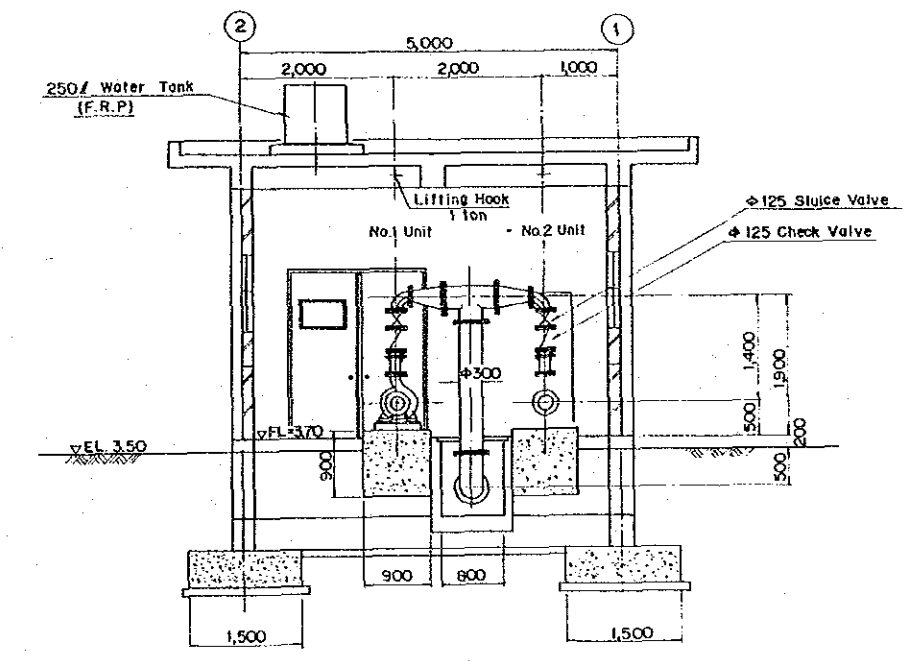
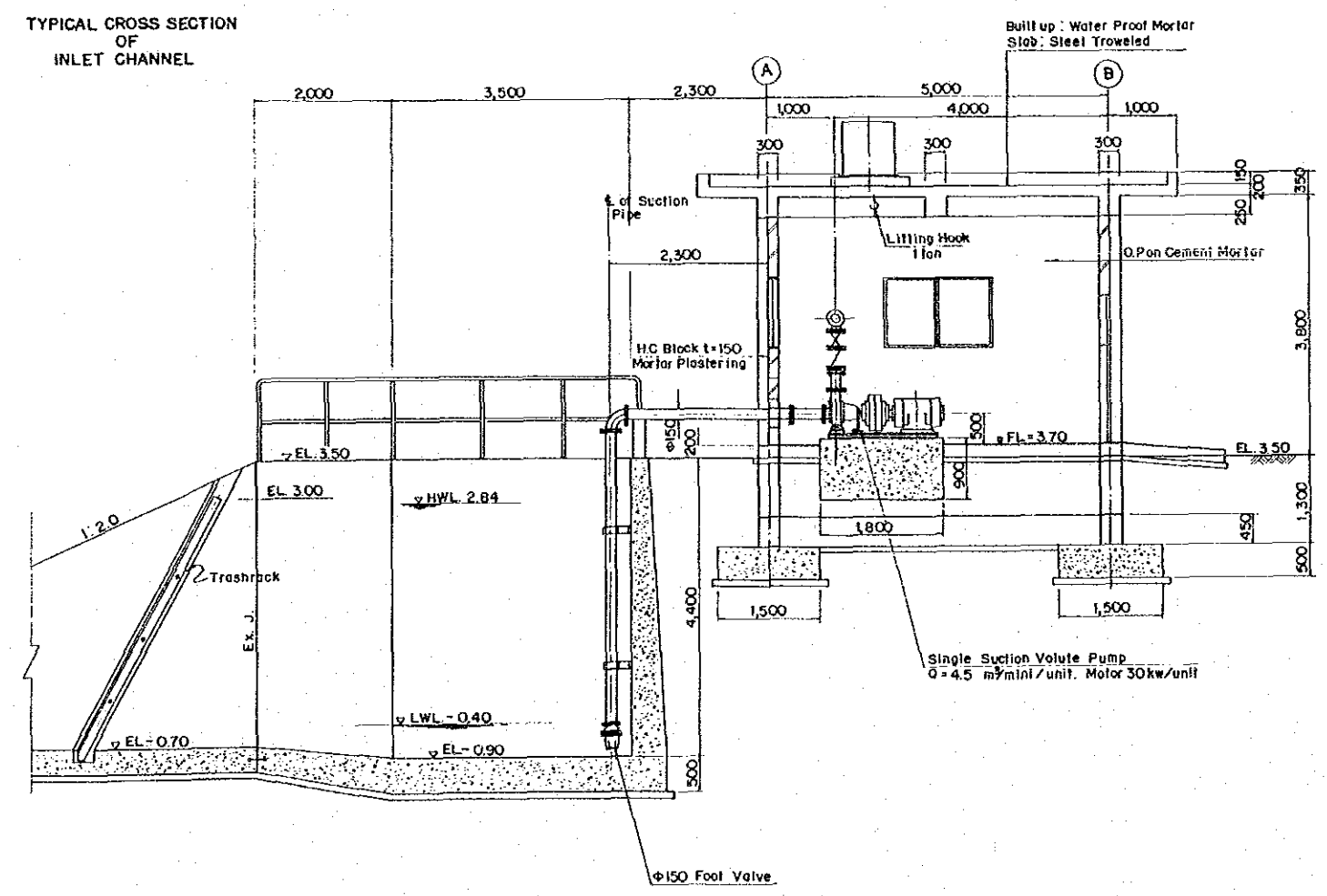
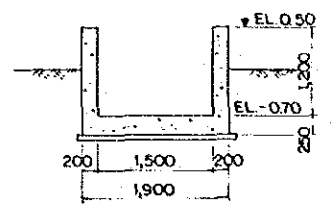
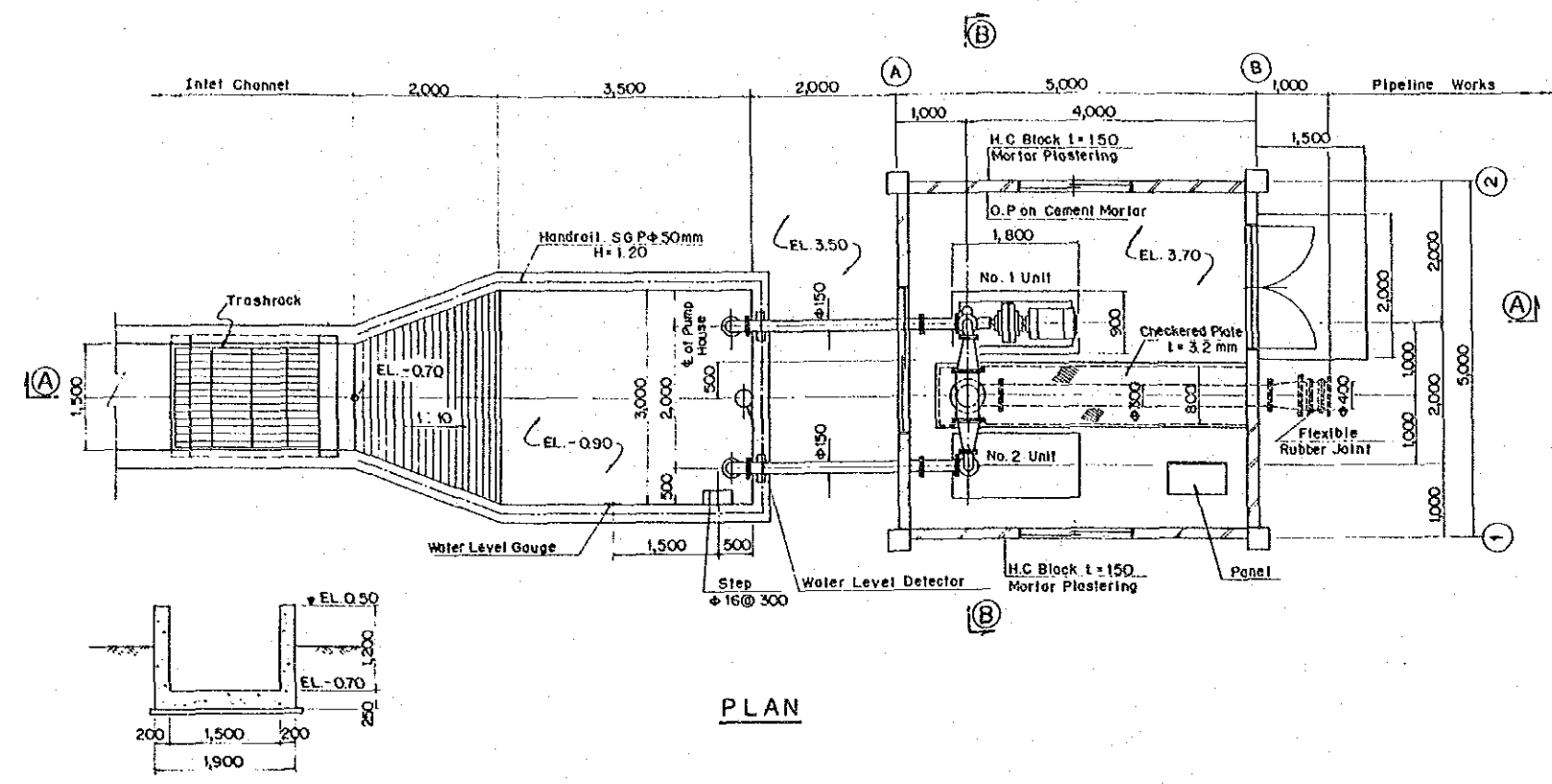
PLAN
SCALE : A



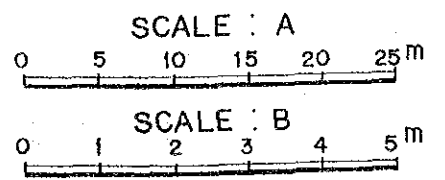
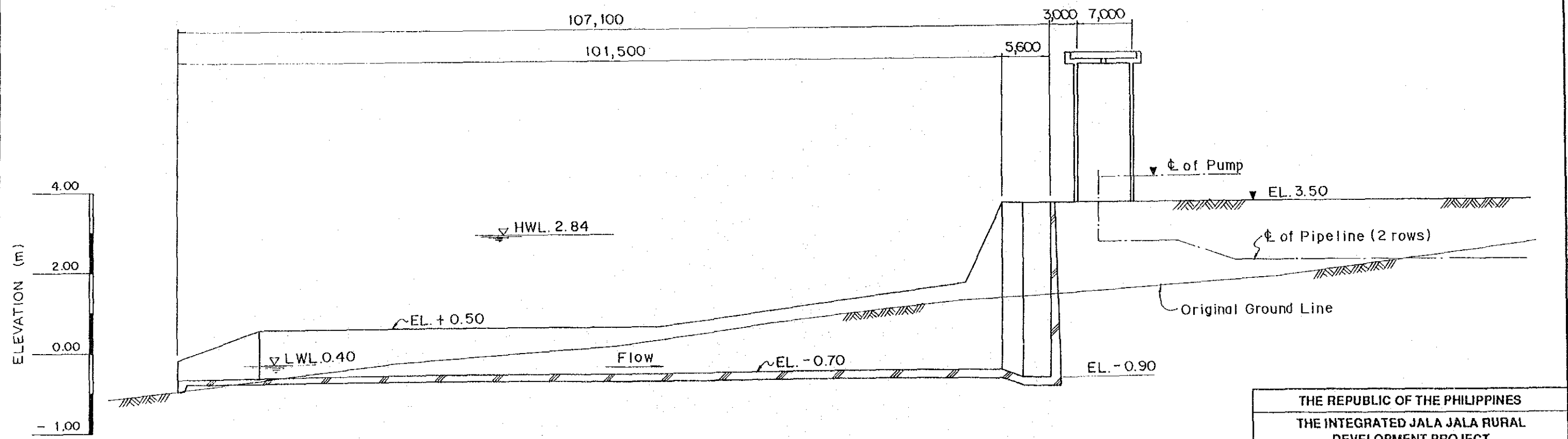
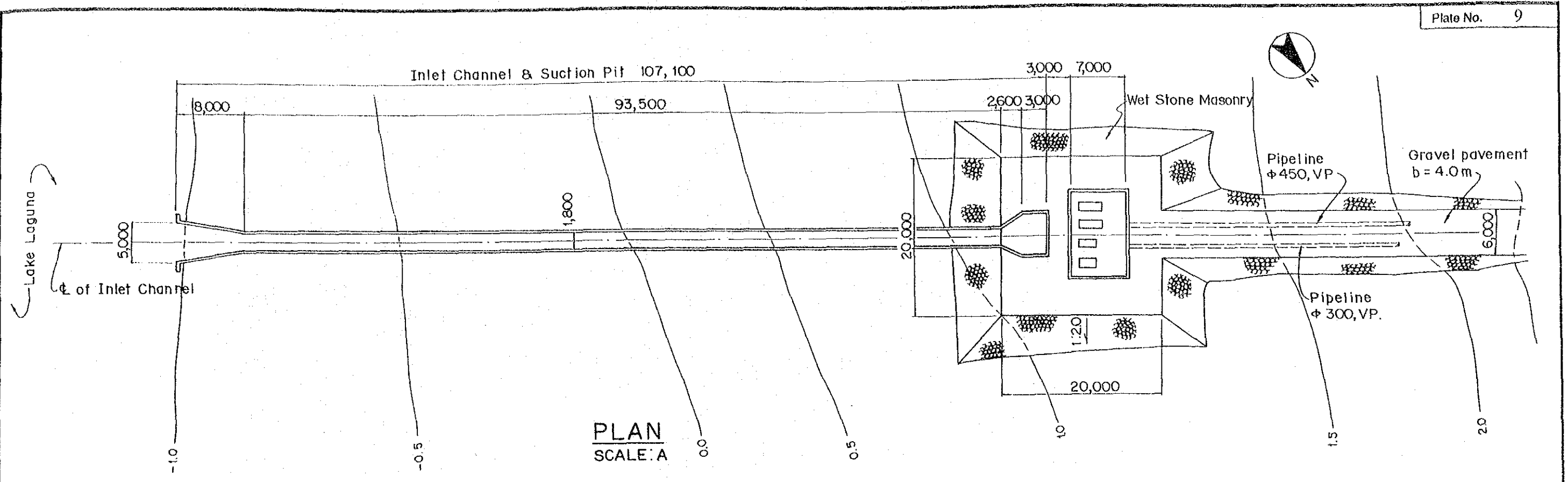
PROFILE
SCALE H = A
B = B



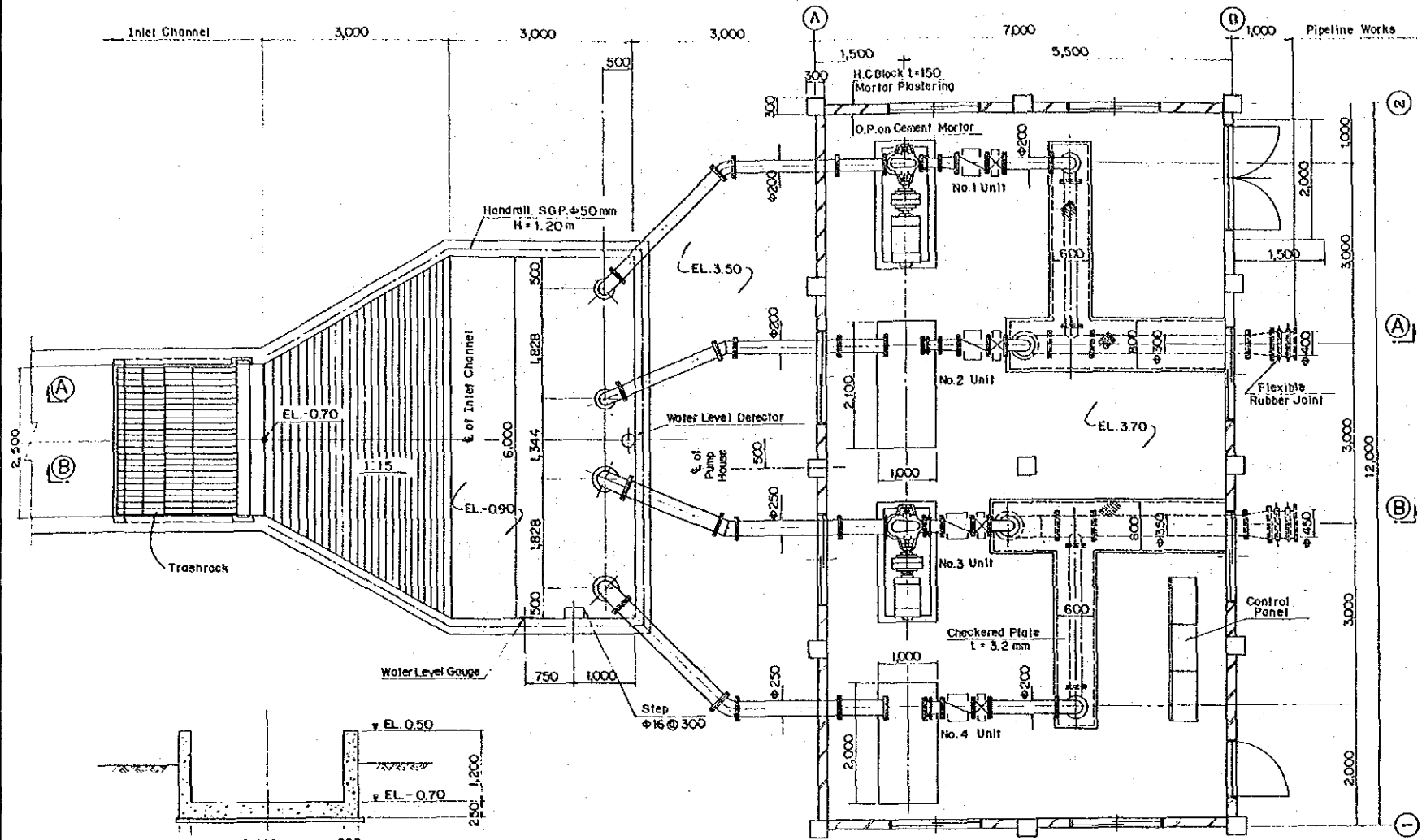
THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING IRRIGATION AND DRAINAGE FACILITIES Pump Station Llano PCIS General Plan & Profile	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



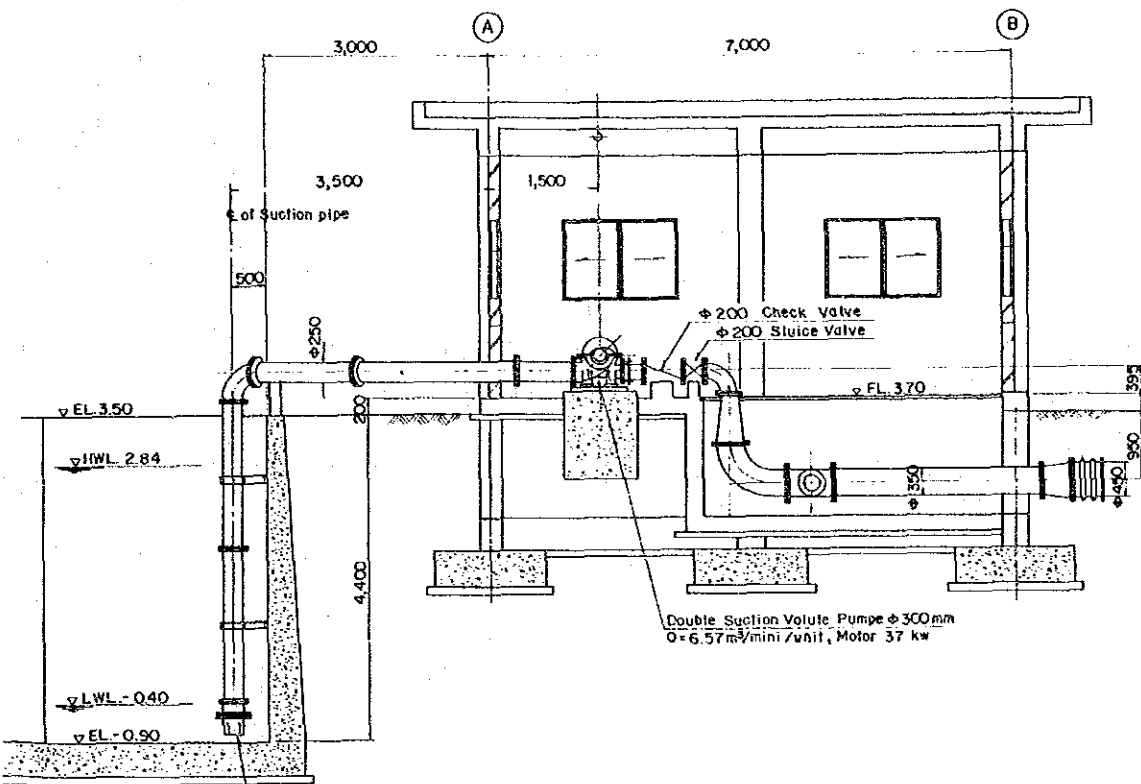
THE REPUBLIC OF THE PHILIPPINES		
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT		
TITLE OF DRAWING		
IRRIGATION AND DRAINAGE FACILITIES		
Pump Station Llano PCIS		
Date		Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY		



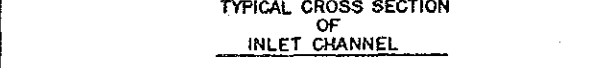
THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING	
IRRIGATION AND DRAINAGE FACILITIES	
Pump Station Palay-Palay PCIS	
General Plan & Profile	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



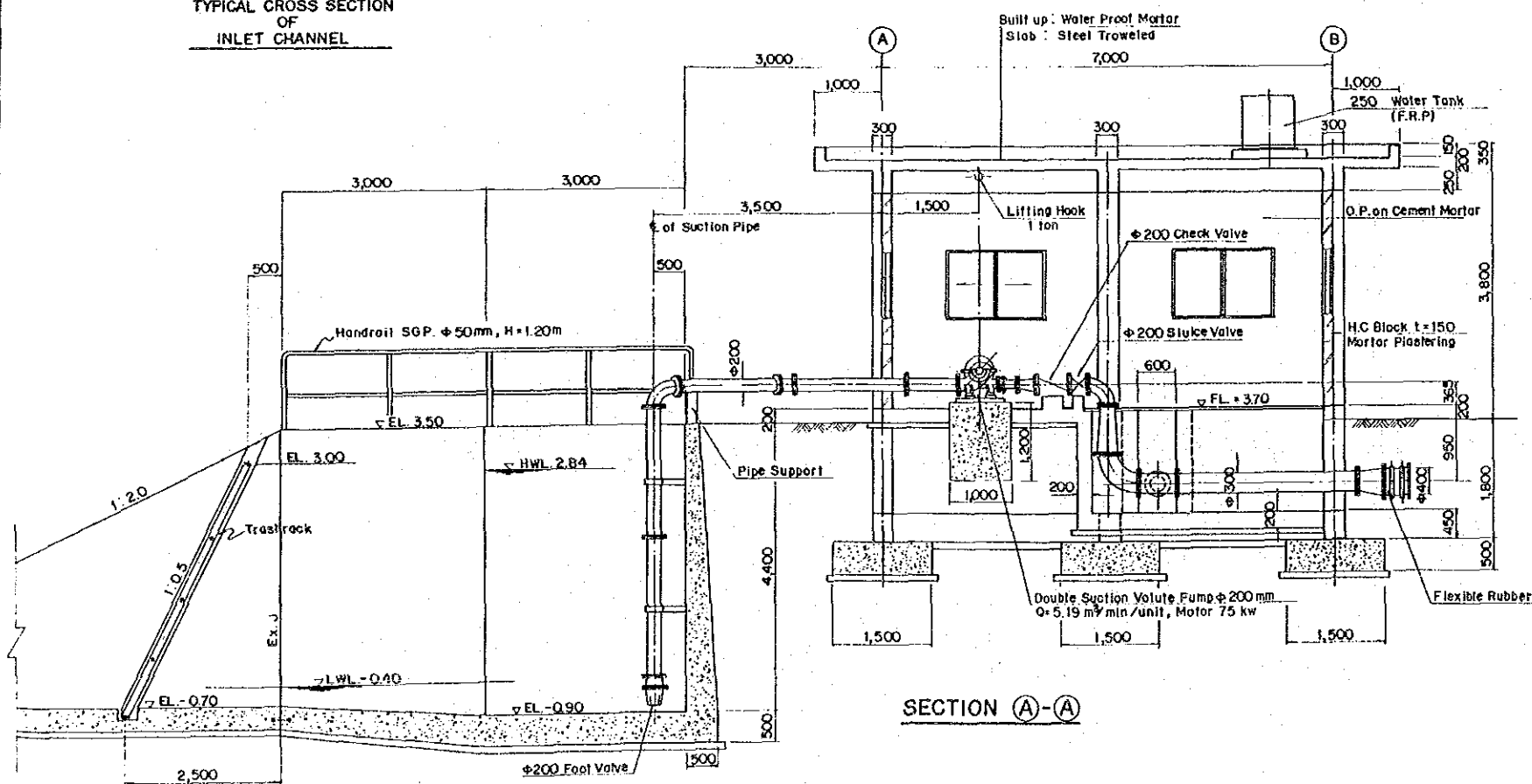
PLAN



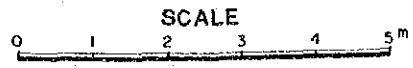
SECTION B-B



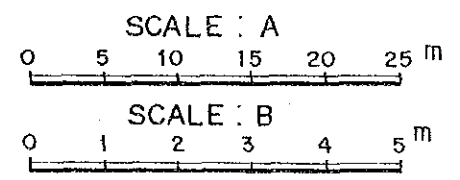
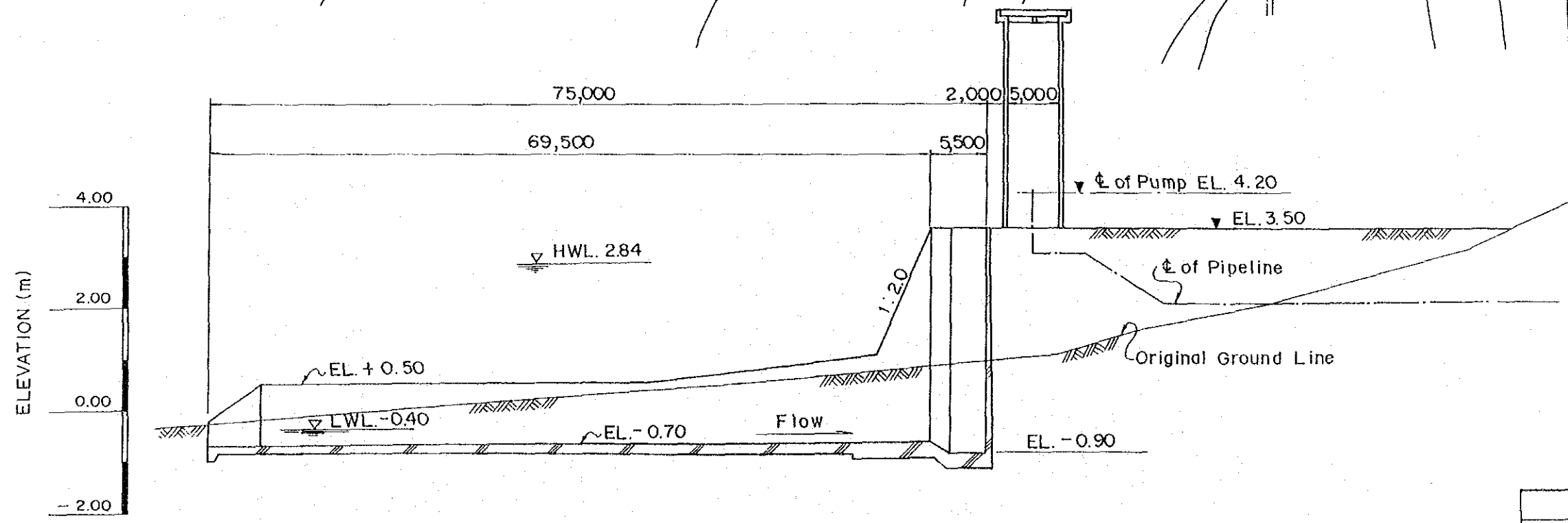
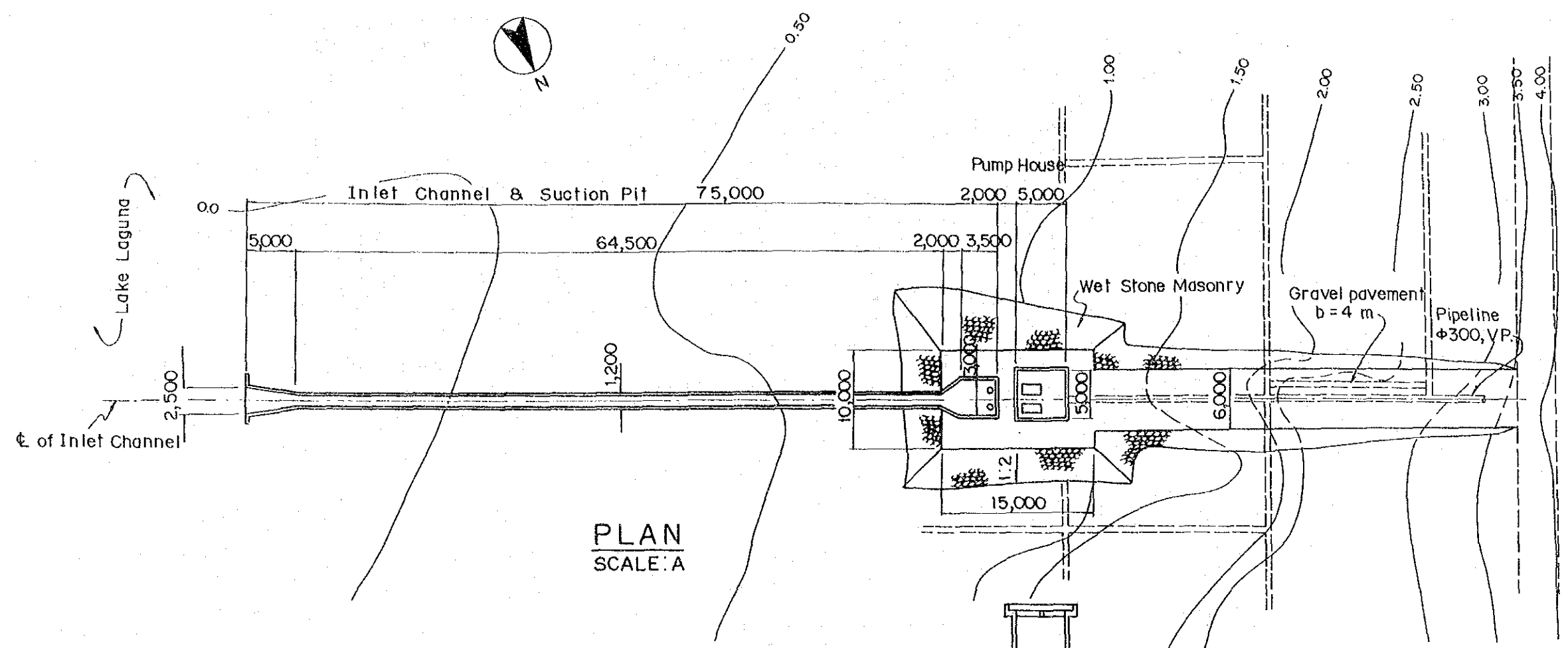
TYPICAL CROSS SECTION OF INLET CHANNEL



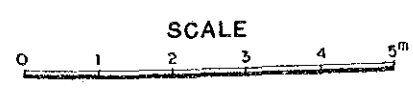
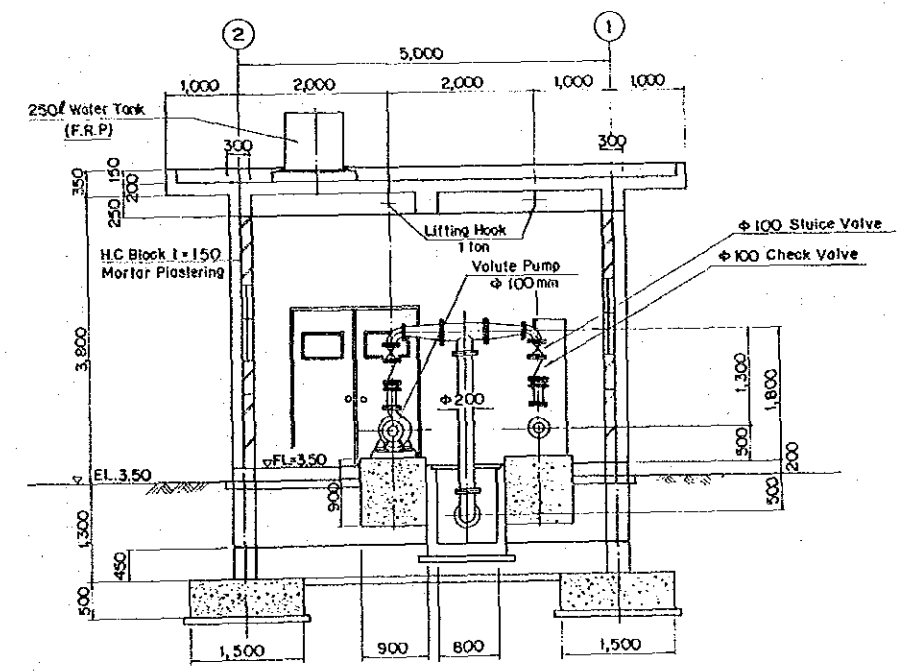
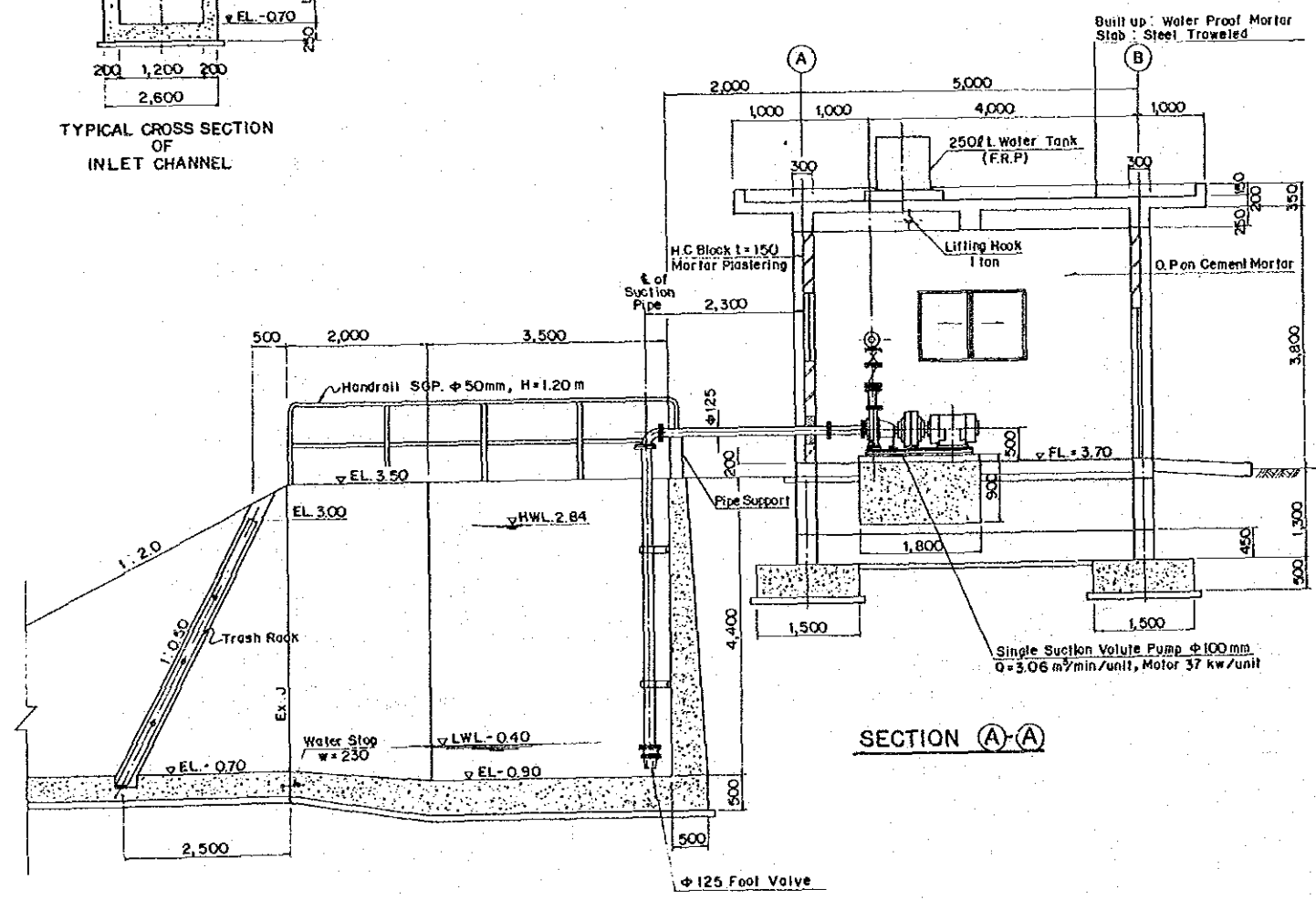
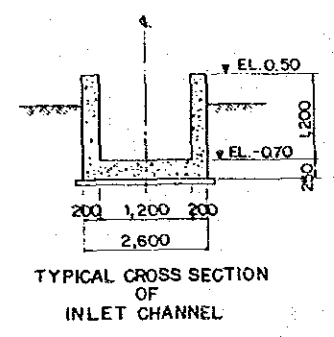
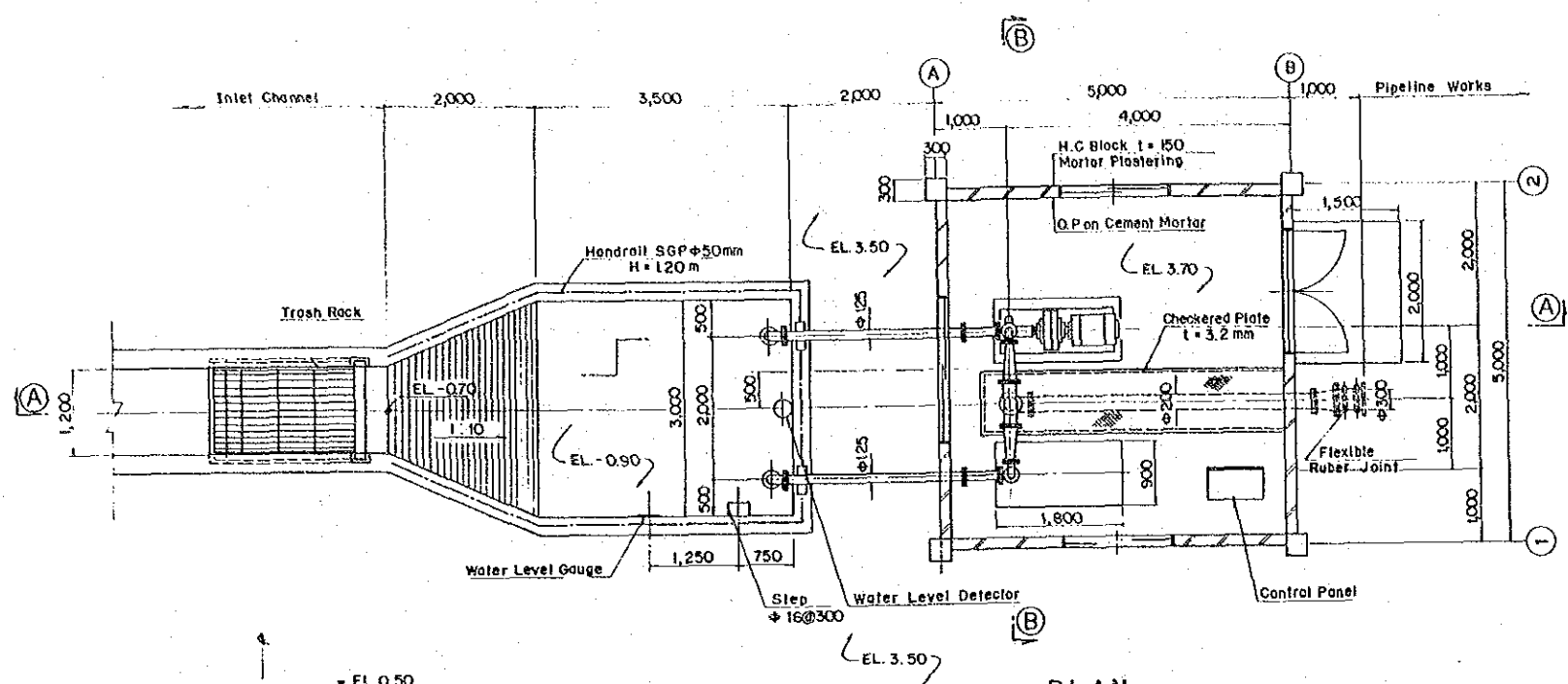
SECTION A-A



THE REPUBLIC OF THE PHILIPPINES		
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT		
TITLE OF DRAWING		
IRRIGATION AND DRAINAGE FACILITIES		
Pump Station Palay-Palay PCIS		
Date	Drawing No.	
JAPAN INTERNATIONAL COOPERATION AGENCY		

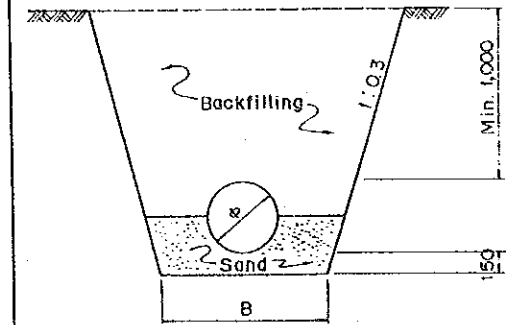
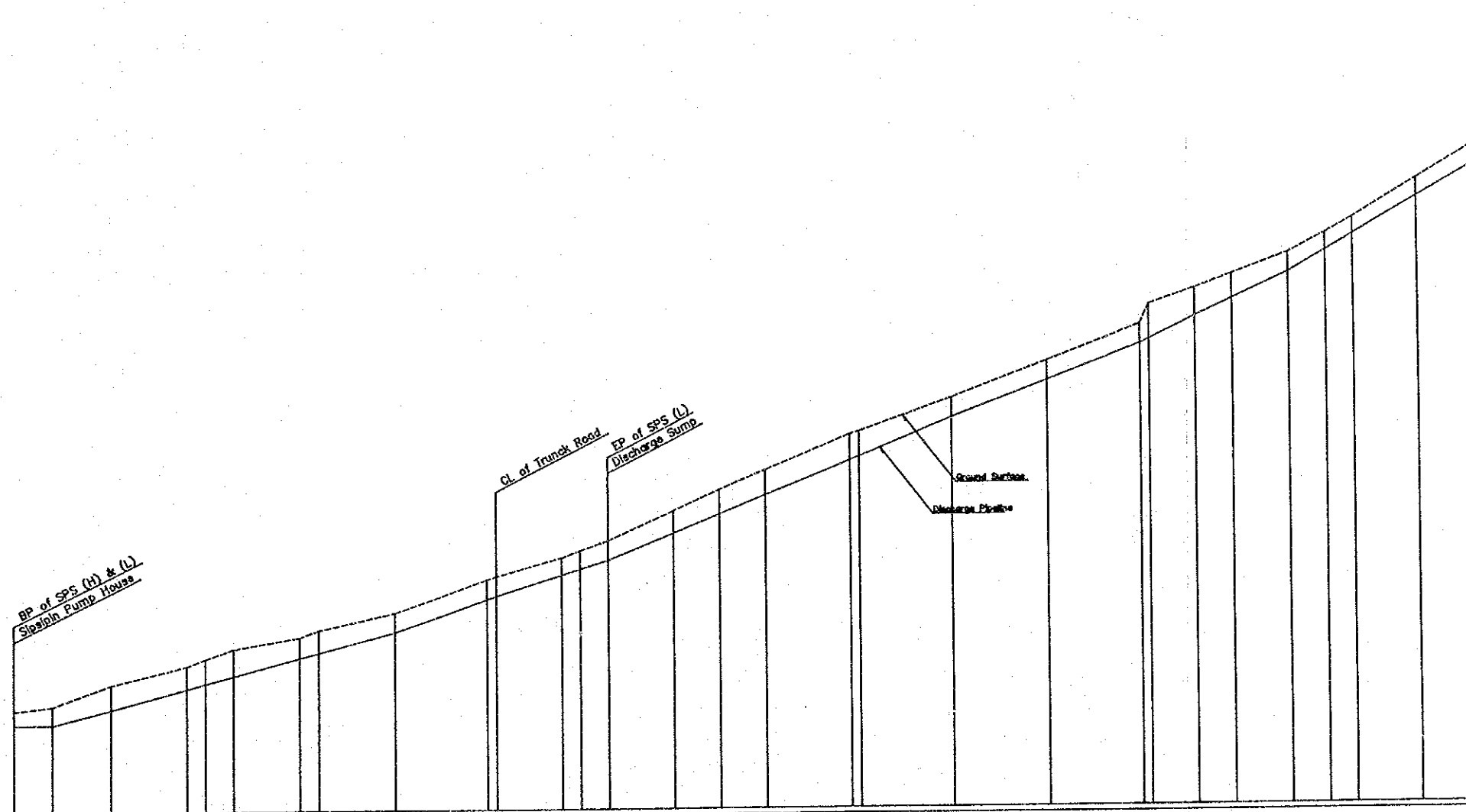
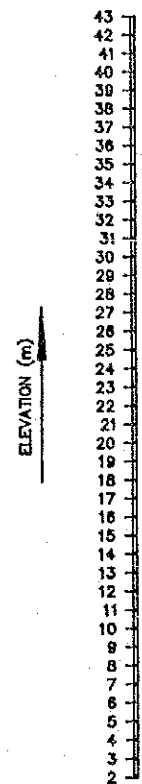


THE REPUBLIC OF THE PHILIPPINES		
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT		
TITLE OF DRAWING IRRIGATION AND DRAINAGE FACILITIES Pump Station Pagkalinawan PCIS General Plan & Profile		
Date		Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY		



THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING	
IRRIGATION AND DRAINAGE FACILITIES	
Pump Station Pagkalinawan PCIS	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	

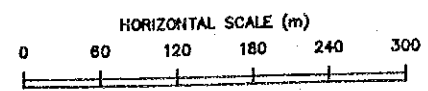
SPS



CROSS SECTION OF PIPELINE

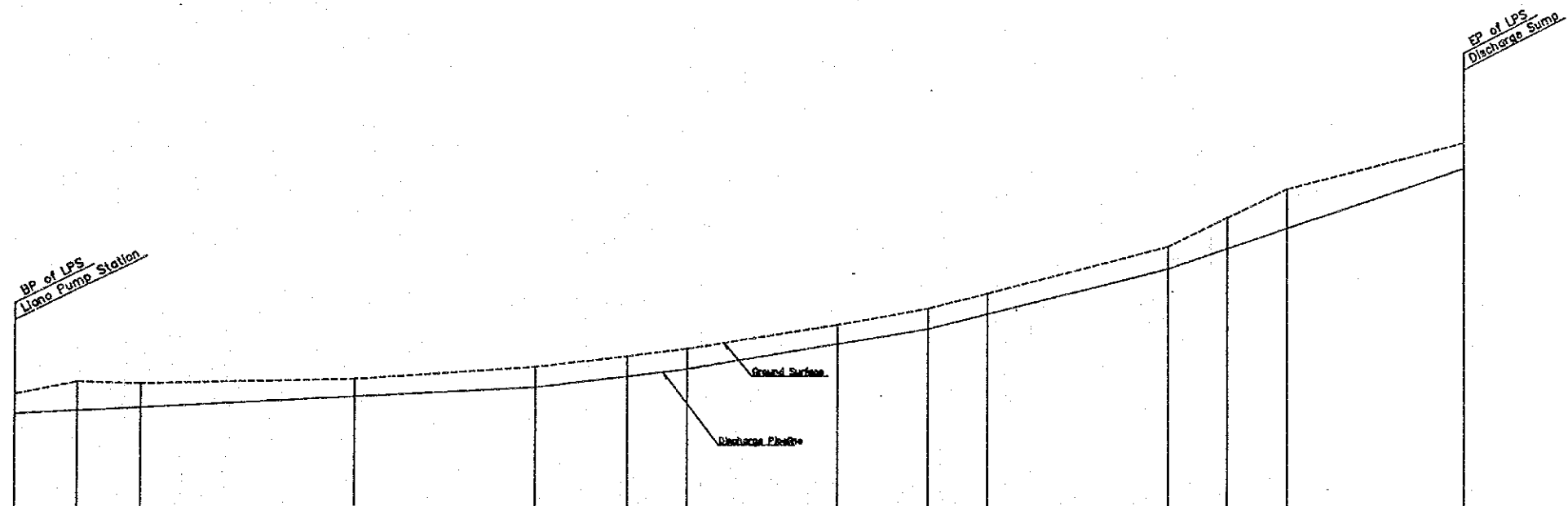
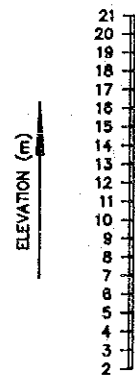
φ	B(m)
300	0.8
400	0.9
450	0.95

GRADIENT : I. LENGTH : L																														
PIPELINE CENTER ELEVATION	2.20	2.20	3.27	4.70	5.08	5.59	6.84	7.20	8.63	10.80	11.15	12.58	13.01	13.63	15.52	16.87	18.22	20.00	23.63	26.13	28.63	31.40	31.94	30.51	31.76	33.63	35.17	36.32	39.01	41.30
GROUND SURFACE ELEVATION	3.20	3.50	5.00	6.30	6.80	7.50	8.30	8.80	10.00	12.10	12.50	13.80	14.30	15.00	17.10	18.60	20.00	22.80	25.00	27.50	30.00	31.40	31.94	30.51	31.76	33.63	35.17	36.32	40.30	42.70
REDUCED DISTANCE	0.00	40.00	100.00	180.00	200.00	230.00	300.00	320.00	400.00	500.00	510.00	580.00	600.00	630.00	700.00	750.00	800.00	880.00	900.00	1000.00	1100.00	1200.00	1210.00	1260.00	1300.00	1360.00	1400.00	1430.00	1500.00	1560.00
DISTANCE	0.00	40.00	80.00	80.00	20.00	30.00	70.00	20.00	80.00	100.00	10.00	70.00	20.00	30.00	70.00	50.00	50.00	80.00	20.00	100.00	100.00	10.00	10.00	50.00	40.00	80.00	40.00	30.00	70.00	60.00
STATION NO.	BP	+0	No.1	+80	No.2	+30	No.3	+20	No.4	No.5	+10	+80	No.6	+30	No.7	+80	No.8	No.9	+80	No.10	No.11	No.12	+10	+80	No.13	+80	No.14	+30	No.15	EP

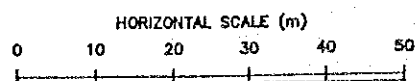


THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 IRRIGATION AND DRAINAGE FACILITIES
 Profile of Pipeline
 Sipsipin PCIS
 Date _____ Drawing No. _____
 JAPAN INTERNATIONAL COOPERATION AGENCY

LPS

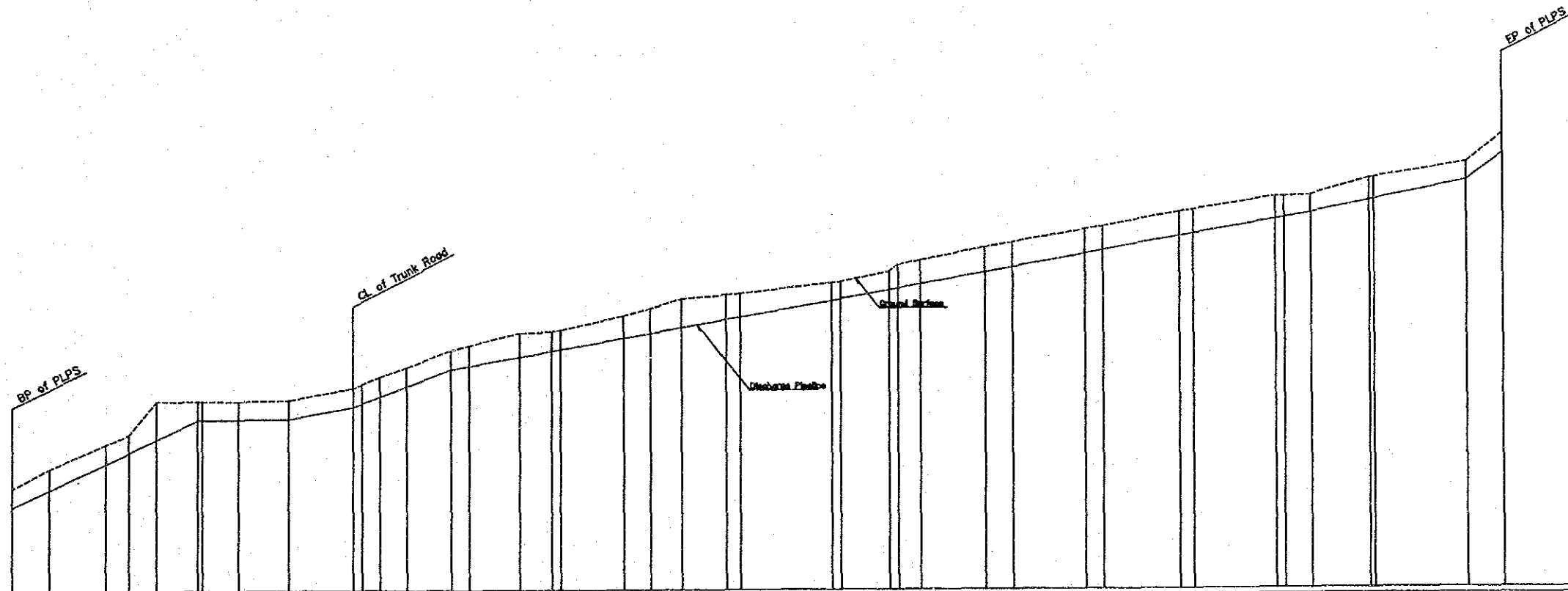
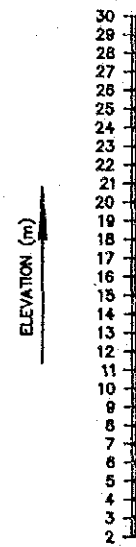


GRADIENT : 1 LENGTH : L															
PIPELINE CENTER ELEVATION	2.20	2.41	2.62	3.35	3.97	4.56	5.16	6.53	7.83	8.83	11.85	13.16	14.50	18.50	
GROUND SURFACE ELEVATION	3.50	4.30	4.20	4.50	5.30	6.00	6.50	8.10	9.20	10.20	13.50	15.20	17.10	20.20	
REDUCED DISTANCE	0.00	10.00	20.00	35.00	65.00	100.00	110.00	135.00	150.00	160.00	190.00	200.00	210.00	240.00	
DISTANCE	0.00	10.00	10.00	35.00	30.00	15.00	10.00	25.00	15.00	10.00	30.00	10.00	10.00	30.00	
STATION NO.	0	+10	+20	+35	+65	Sta. 1	+10	+35	+50	+60	+70	Sta. 2	+10	EP	

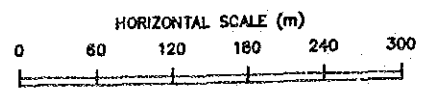


THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 IRRIGATION AND DRAINAGE FACILITIES
 Profile of Pipeline
 Liano PCIS
 Date _____ Drawing No. _____
 JAPAN INTERNATIONAL COOPERATION AGENCY

PLPS



GRADIENT : 1 LENGTH : L																																													
PIPELINE CENTER ELEVATION	2.15	3.44	5.38	6.18	7.15	8.80	8.80	8.85	8.70	8.60	8.60	10.35	11.10	12.35	12.58	13.25	14.63	14.98	15.40	16.25	17.80	18.18	18.38	18.58	19.42	19.78	20.75	20.87	21.98	22.17	23.25	23.37	23.75	24.53	24.70	26.08	28.08								
GROUND SURFACE ELEVATION	3.50	5.00	6.80	7.50	10.00	10.00	10.00	10.00	10.10	11.00	11.25	11.80	12.50	13.75	14.10	15.00	15.10	15.20	16.25	17.80	17.90	18.18	18.75	18.75	19.50	20.00	20.30	21.25	21.80	22.50	23.90	23.90	24.50	24.50	25.00	25.00	26.08	27.40	28.08						
REDUCED DISTANCE	0.00	40.00	100.00	125.00	155.00	200.00	200.00	243.00	300.00	370.00	390.00	400.00	430.00	480.00	500.00	555.00	590.00	600.00	670.00	700.00	735.00	785.00	800.00	800.00	800.00	810.00	810.00	885.00	975.00	1000.00	1070.00	1100.00	1180.00	1200.00	1285.00	1300.00	1390.00	1400.00	1430.00	1435.00	1500.00	1600.00	1640.00	1840.00	2000.00
DISTANCE	0.00	40.00	60.00	25.00	30.00	45.00	5.00	40.00	55.00	70.00	10.00	20.00	30.00	50.00	20.00	55.00	35.00	10.00	70.00	30.00	35.00	50.00	15.00	100.00	10.00	55.00	25.00	70.00	30.00	80.00	20.00	85.00	15.00	90.00	10.00	30.00	65.00	5.00	100.00	35.00					
STATION NO.	BP	+40	No.1	+25	+56	No.2	+10	+45	No.3	+70	+80	No.4	+30	+40	No.5	+36	+90	No.6	+70	No.7	+36	+36	No.8	No.9	+70	+80	No.10	+70	No.11	+60	No.12	+85	No.13	+90	No.14	+30	+85	No.15	No.16	No.17	No.18	EP			

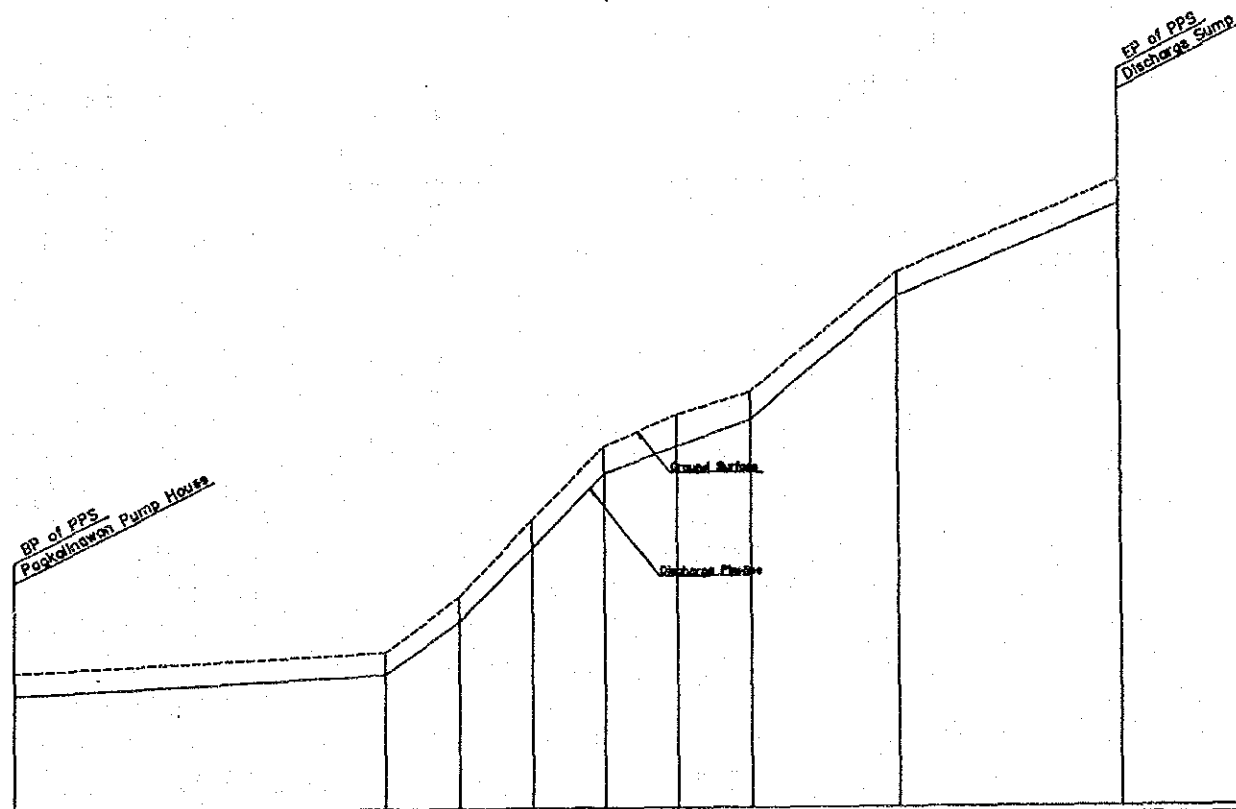
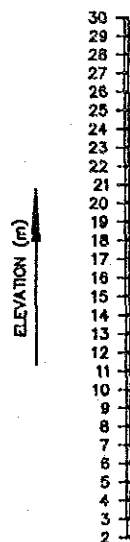


THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 IRRIGATION AND DRAINAGE FACILITIES
 Profile of Pipeline
 Palay-Palay PCIS

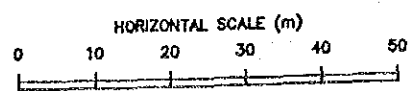
Date	Drawing No.
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JAPAN INTERNATIONAL COOPERATION AGENCY

PPS



GRADIENT : I LENGTH : L										
PIPELINE CENTER ELEVATION	2.30	3.30	8.16	10.16	14.16	15.59	17.02	23.69	23.69	
GROUND SURFACE ELEVATION	3.50	4.50	7.50	11.70	15.60	17.30	18.50	25.00	30.00	
REDUCED DISTANCE	0.00	50.00	60.00	70.00	80.00	90.00	100.00	120.00	150.00	
DISTANCE	0.00	50.00	10.00	10.00	10.00	10.00	10.00	20.00	30.00	
STATION NO.		+60	+60	+70	+80	+90	No.1	+90		B



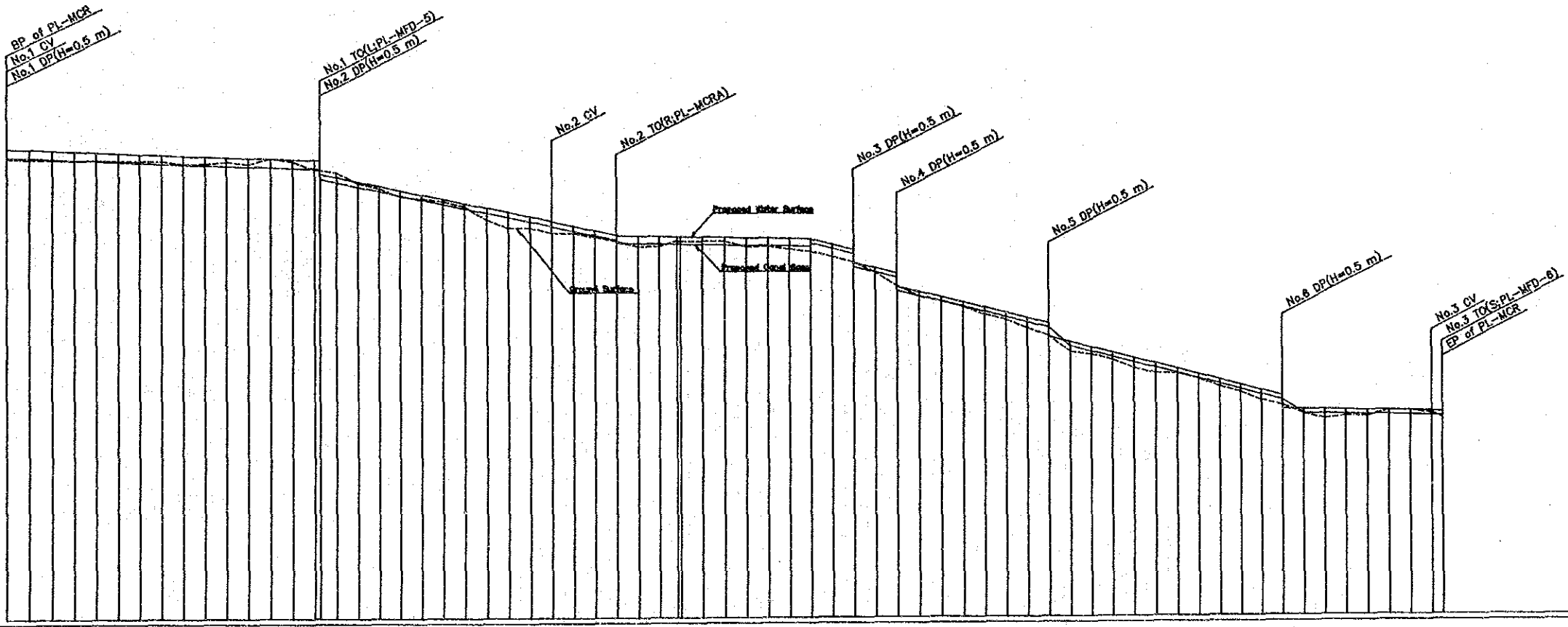
THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 IRRIGATION AND DRAINAGE FACILITIES
 Profile of Pipeline
 Pagkalinawan PCIS

Date		Drawing No.	
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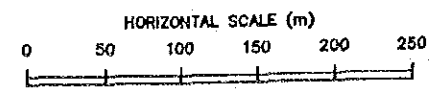
JAPAN INTERNATIONAL COOPERATION AGENCY

PL-MCR

ELEVATION (m)



CANAL TYPE	Q=0.12m ³ /s I=1/200 B=0.80m H=0.33m V=0.98m/s		Q=0.110m ³ /s I=1/20 B=0.48m H=0.18m V=1.32m/s		Q=0.053m ³ /s I=1/100 B=0.45m H=0.28m V=0.43m/s		Q=0.053m ³ /s I=1/100 B=0.30m H=0.18m V=1.18m/s		Q=0.053m ³ /s I=1/100 B=0.45m H=0.28m V=0.43m/s	
WATER SURFACE ELEVATION	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50
CANAL BASE ELEVATION	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50
GROUND SURFACE ELEVATION	19.54	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50
REDUCED DISTANCE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00
DISTANCE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00
STATION NO.	0+00	0+20	0+40	0+60	0+80	1+00	1+20	1+40	1+60	1+80



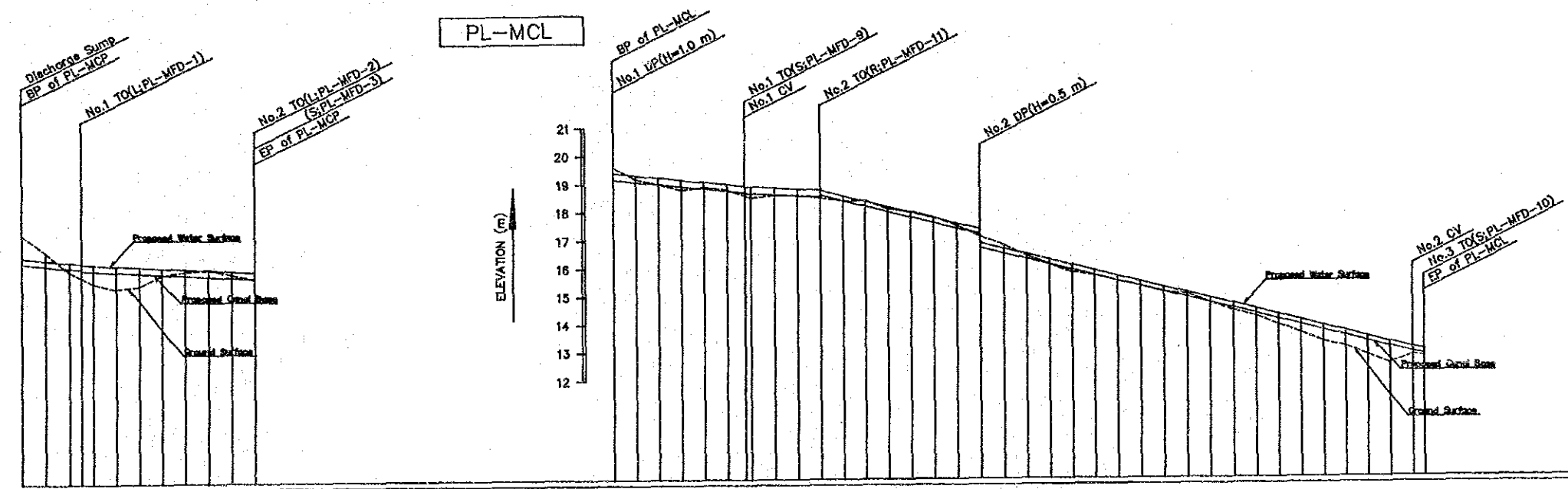
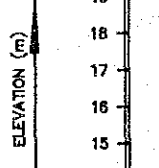
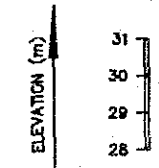
THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 IRRIGATION AND DRAINAGE FACILITIES
 Irrigation Canal Profile
 Palay-Palay PCIS (1/2)

Date: _____ Drawing No.: _____

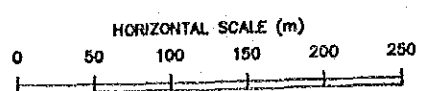
JAPAN INTERNATIONAL COOPERATION AGENCY

PL-MCP

PL-MCL

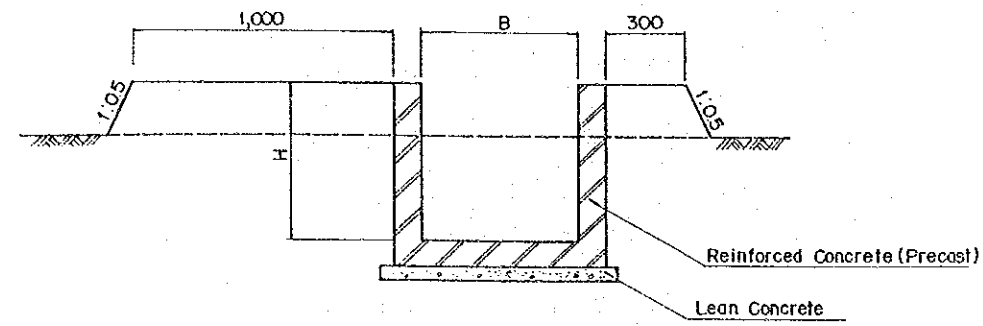


CANAL TYPE	Q=0.083m ³ /s B=0.45m H=0.22m V=0.68m/s I=1/250		Q=0.067m ³ /s B=0.45m H=0.22m V=0.68m/s I=1/250		Q=0.108m ³ /s B=0.45m H=0.24m V=1.00m/s I=1/250		Q=0.063m ³ /s B=0.45m H=0.22m V=0.68m/s I=1/250		Q=0.051m ³ /s B=0.30m H=0.17m V=1.23m/s I=1/100							
WATER SURFACE ELEVATION	29.50	29.42	29.34	29.26	29.18	29.10	29.02	28.94	28.86	28.78						
CANAL BASE ELEVATION	29.30	29.22	29.14	29.06	28.98	28.90	28.82	28.74	28.66	28.58						
GROUND SURFACE ELEVATION	30.00	29.70	29.40	29.10	28.80	28.50	28.20	27.90	27.60	27.30						
REDUCED DISTANCE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00						
DISTANCE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00						
STATION NO.	BP	+30	No.1	EP	BP	No.1	+10	+40	No.2	No.3	+20	No.4	No.5	No.6	No.7	EP



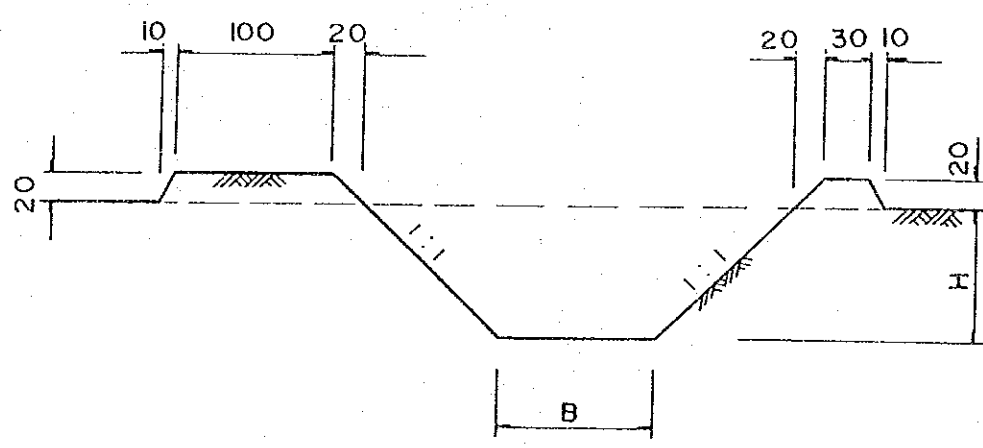
THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 IRRIGATION AND DRAINAGE FACILITIES
 Irrigation Canal Profile
 Palay-Palay PCIS (2/2)

Date _____ Drawing No. _____
 JAPAN INTERNATIONAL COOPERATION AGENCY

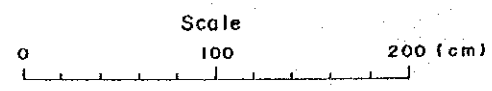


CROSS SECTION OF IRRIGATION CANAL

TYPE	B	H
U - 60	60	60
U - 45	45	45
U - 40	40	40
U - 30	30	30

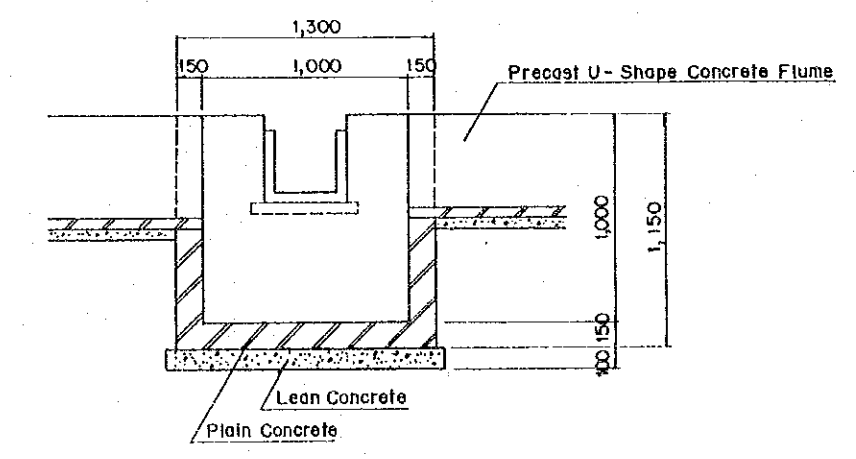
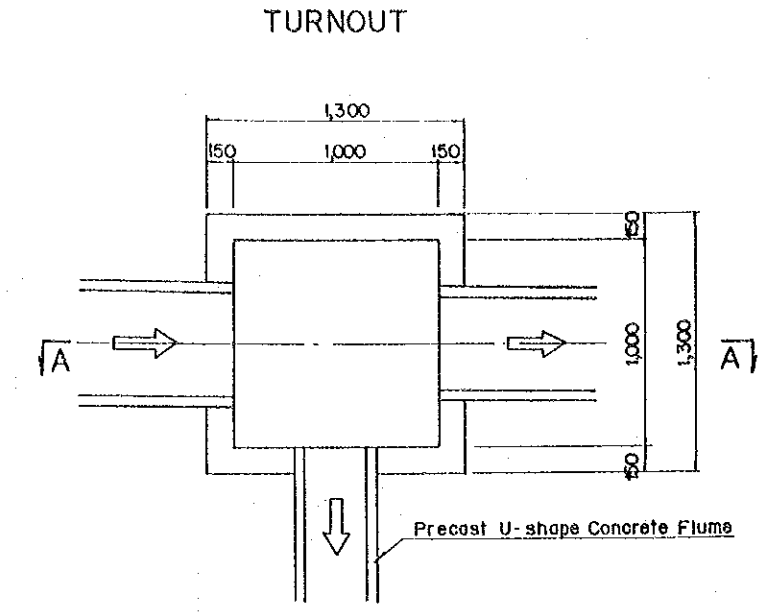
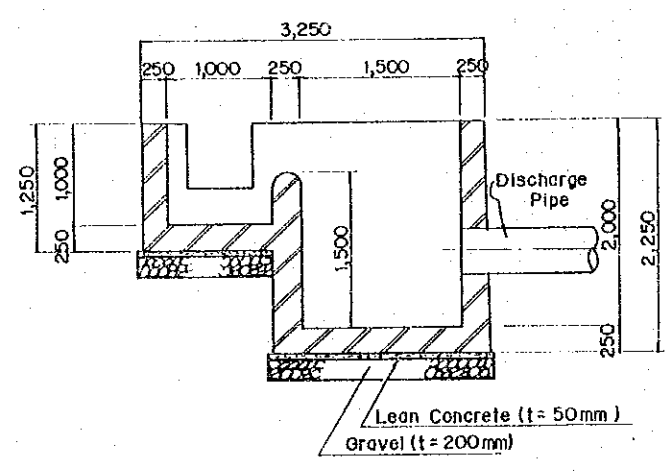
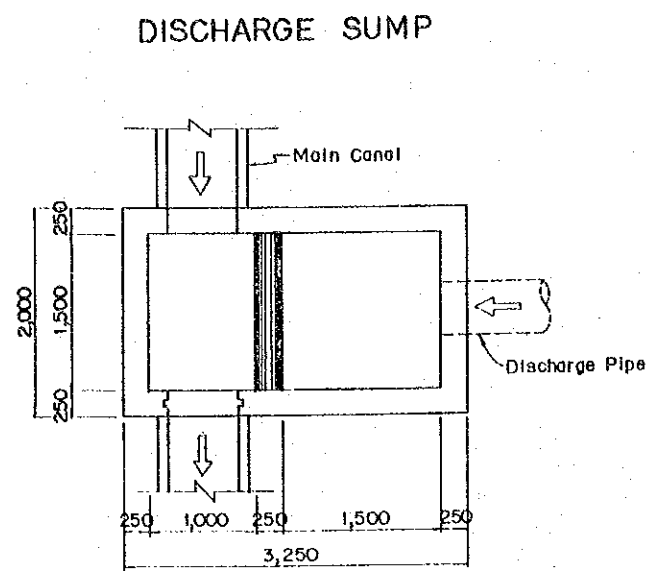


CROSS SECTION OF MAIN DRAIN

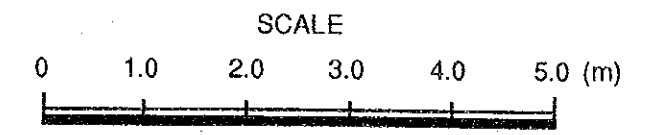


Dimension of Main Drain

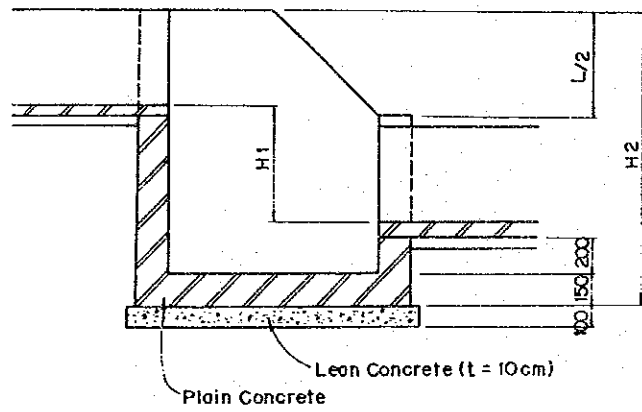
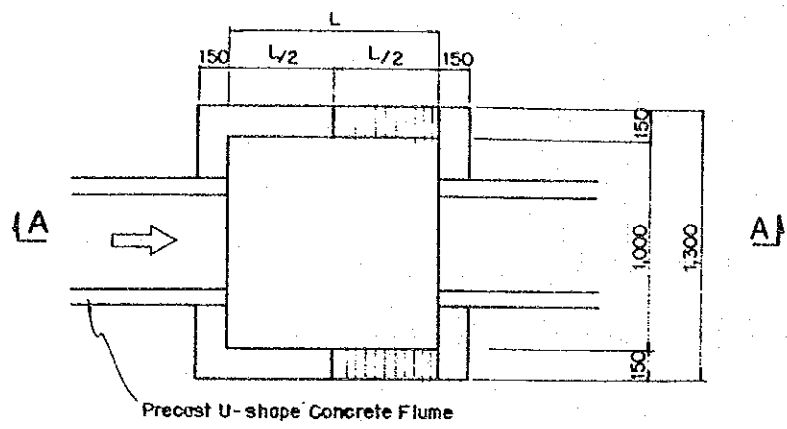
Type	B	H
u - 0.3	0.3	0.6
u - 0.6	0.6	0.6
u - 0.8	0.8	0.6
u - 1.0	1.0	0.7
u - 1.2	1.2	0.8
u - 1.4	1.4	0.9
u - 1.6	1.6	1.0
u - 1.8	1.8	1.1
u - 2.0	2.0	1.2



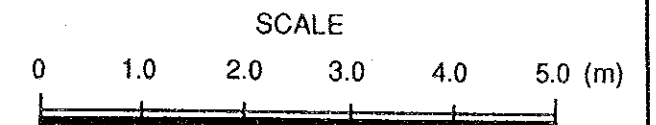
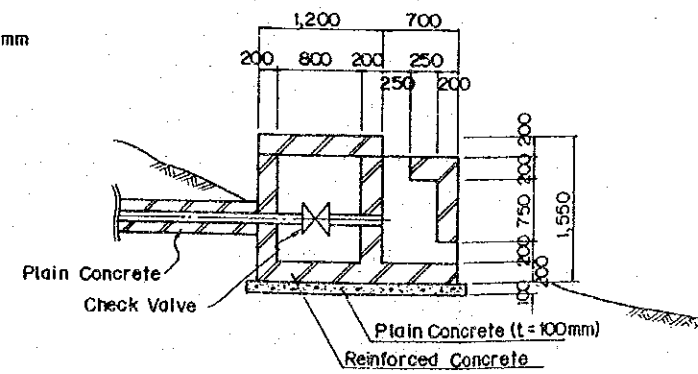
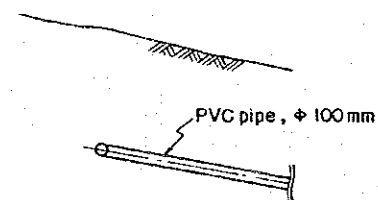
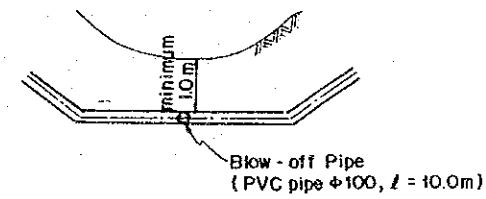
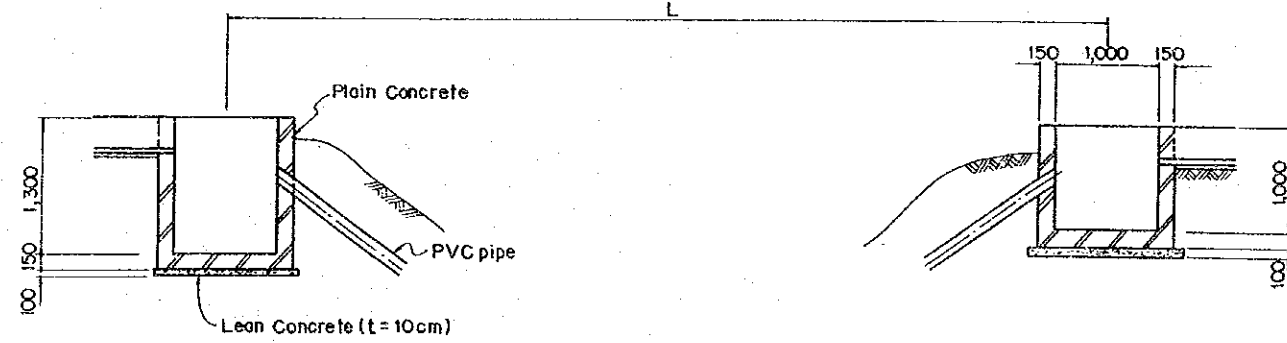
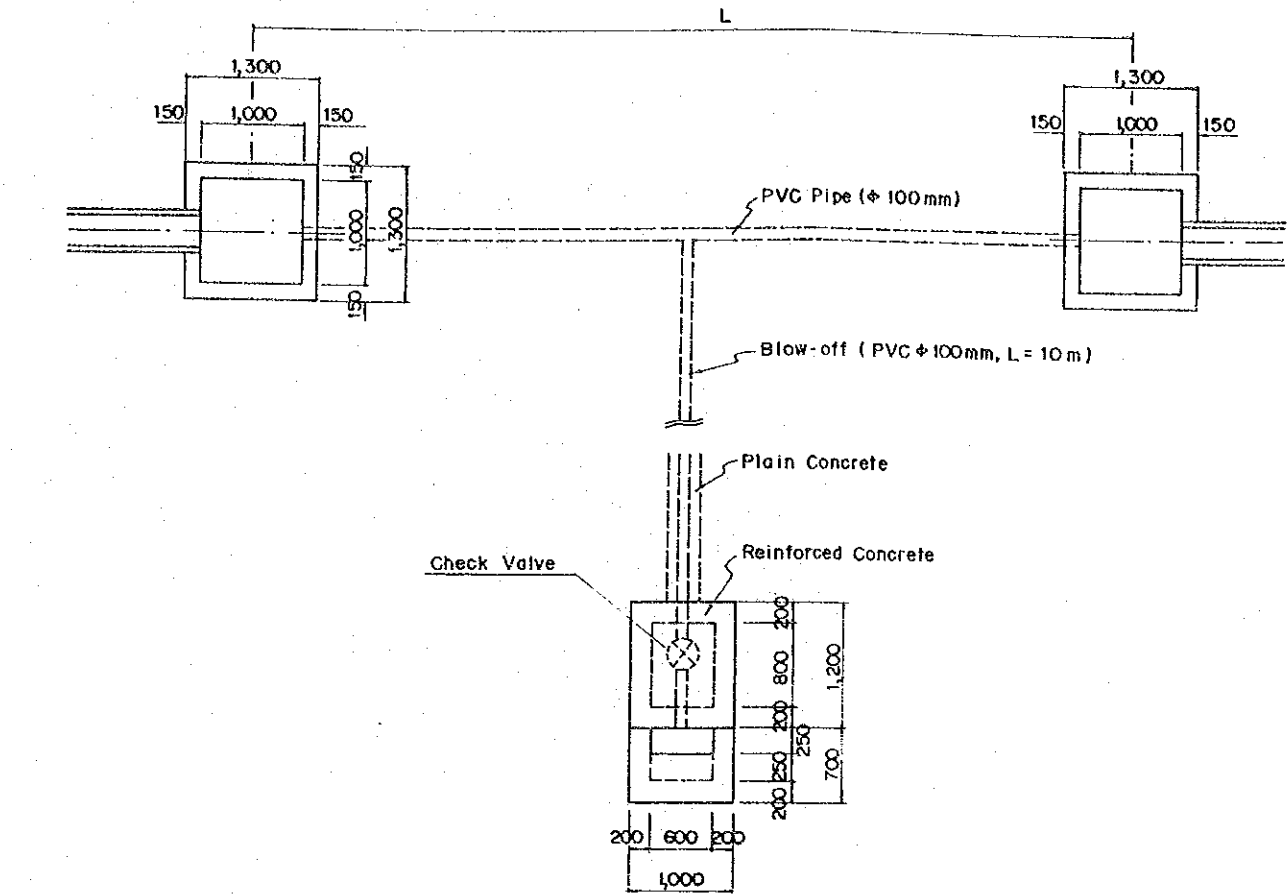
SECTION A-A



THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 IRRIGATION AND DRAINAGE FACILITIES
 Canal Related Structures
 Typical section, Discharge Sump, Turnout
 Date _____ Drawing No. _____
 JAPAN INTERNATIONAL COOPERATION AGENCY

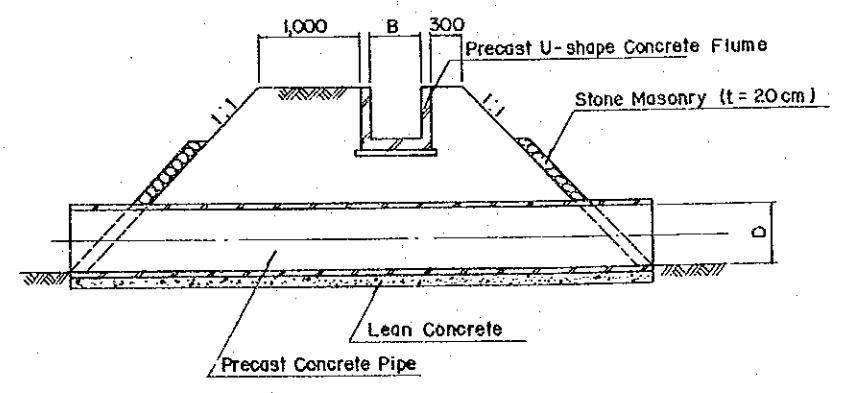
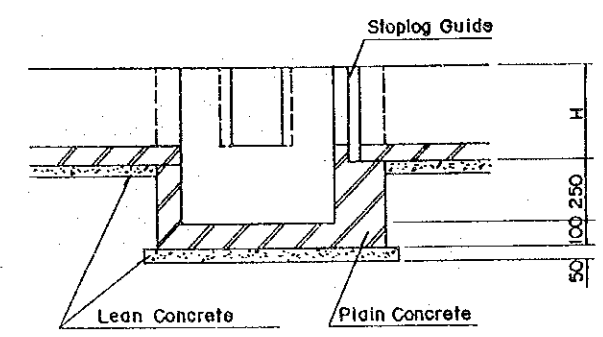
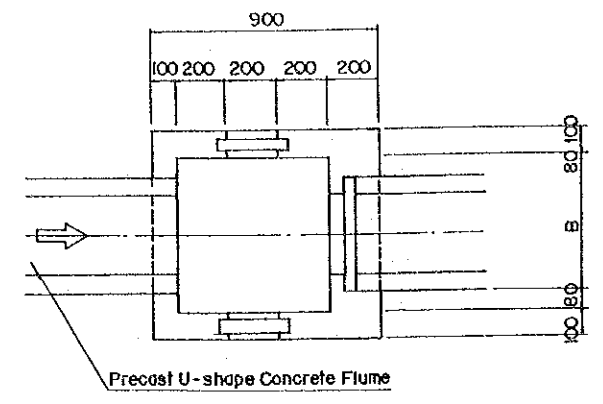
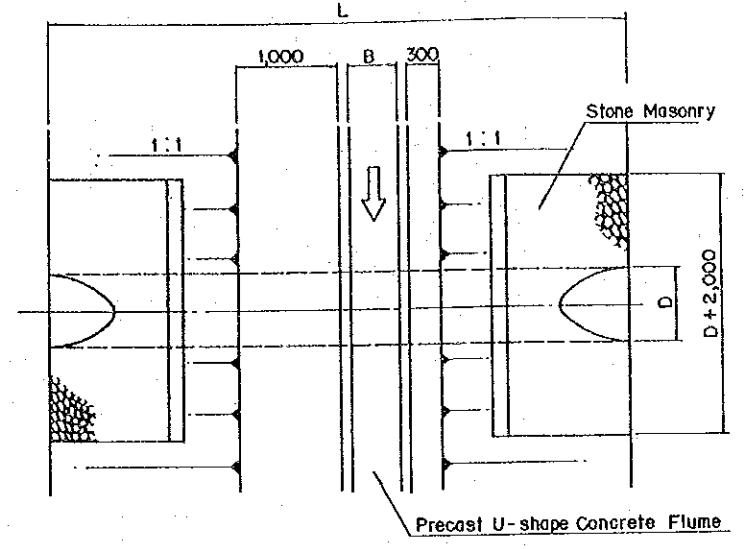
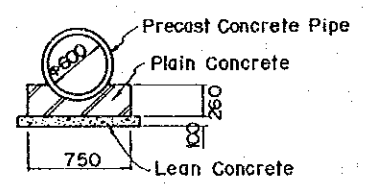
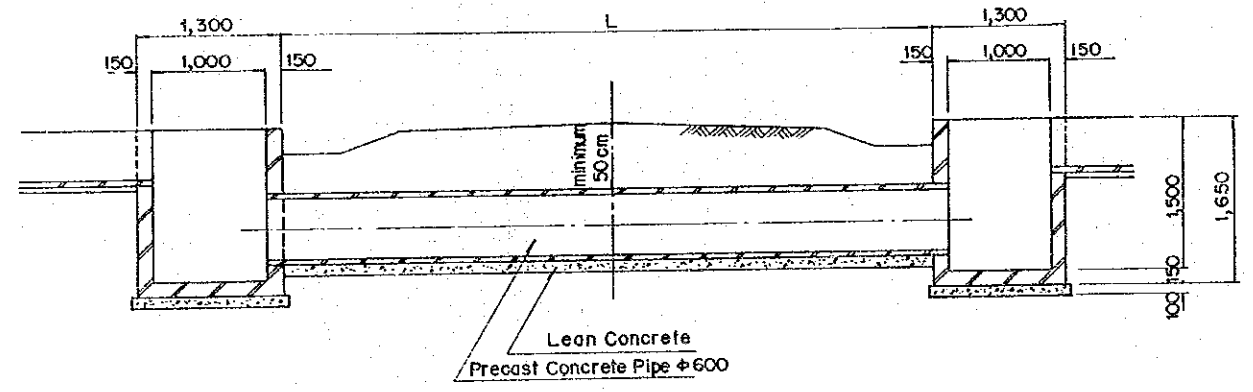
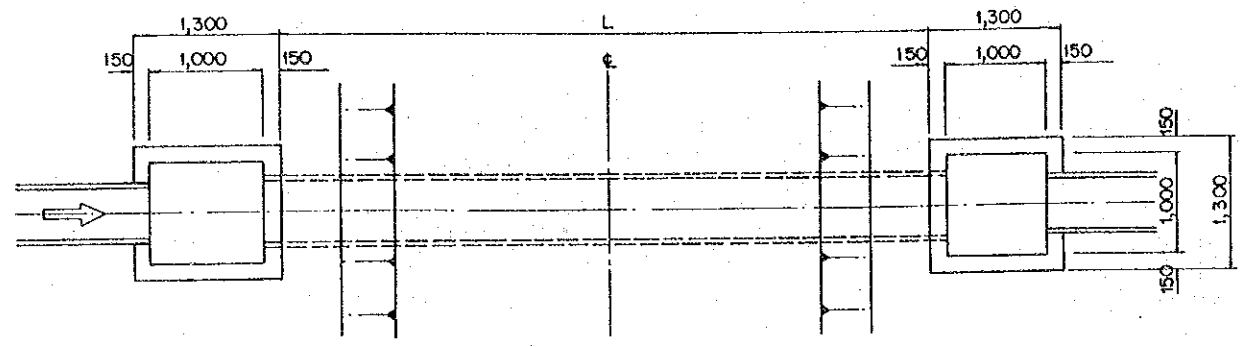


	L	H1	H2
T-A	1,000	500	1,500
T-B	1,500	1,000	2,000

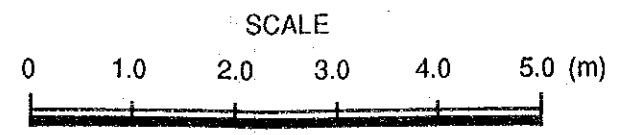


THE REPUBLIC OF THE PHILIPPINES		
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT		
TITLE OF DRAWING		
IRRIGATION AND DRAINAGE FACILITIES		
Canal Related Structures		
Drop, Siphon		
Date	Drawing No.	
JAPAN INTERNATIONAL COOPERATION AGENCY		

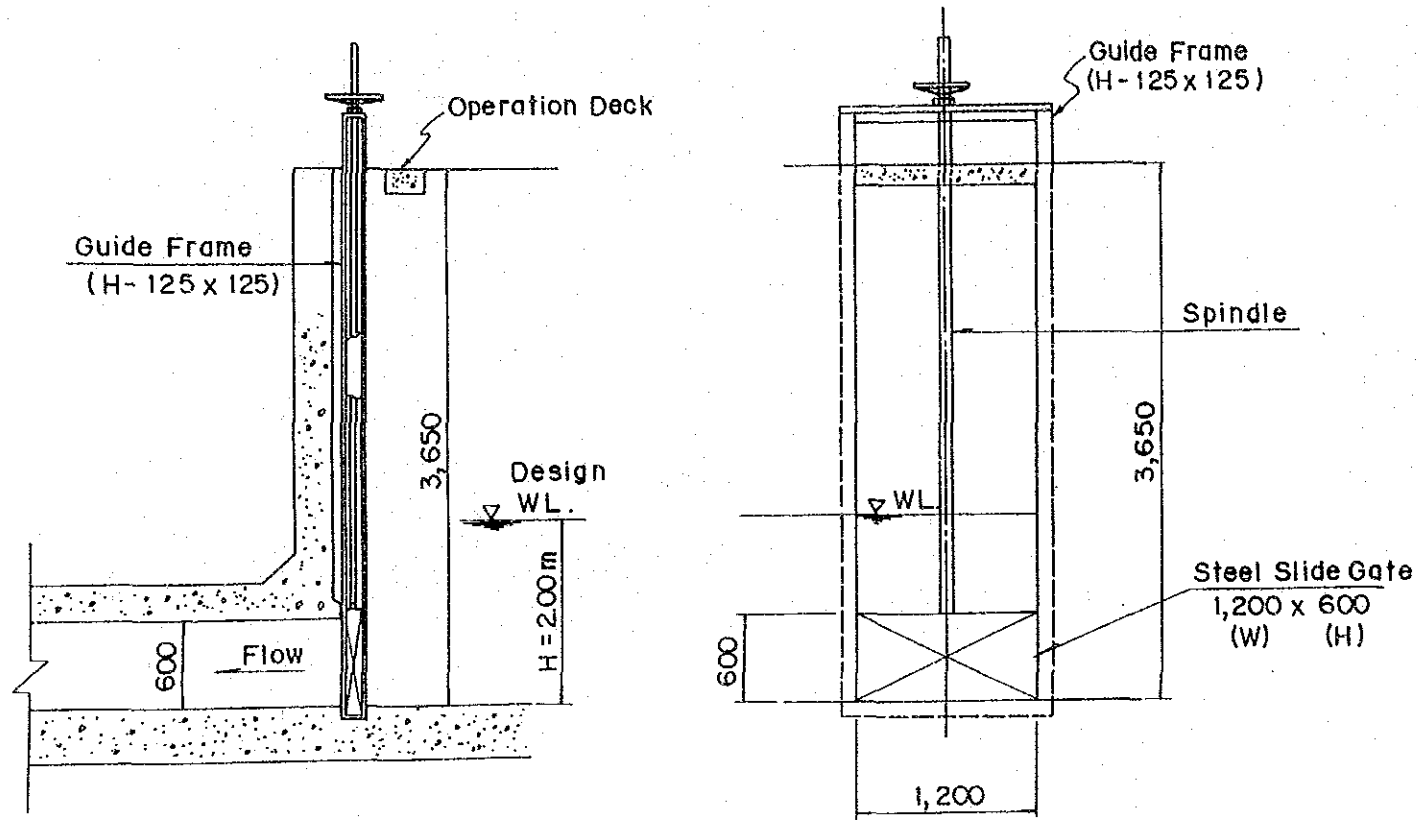
CROSS DRAIN



U-Flume	B	H
60	760	680
50	660	580
45	590	520
30	420	360



THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 IRRIGATION AND DRAINAGE FACILITIES
 Canal Related Structures
 Culvert, Cross Drain, Field Inlet
 Date _____ Drawing No. _____
 JAPAN INTERNATIONAL COOPERATION AGENCY



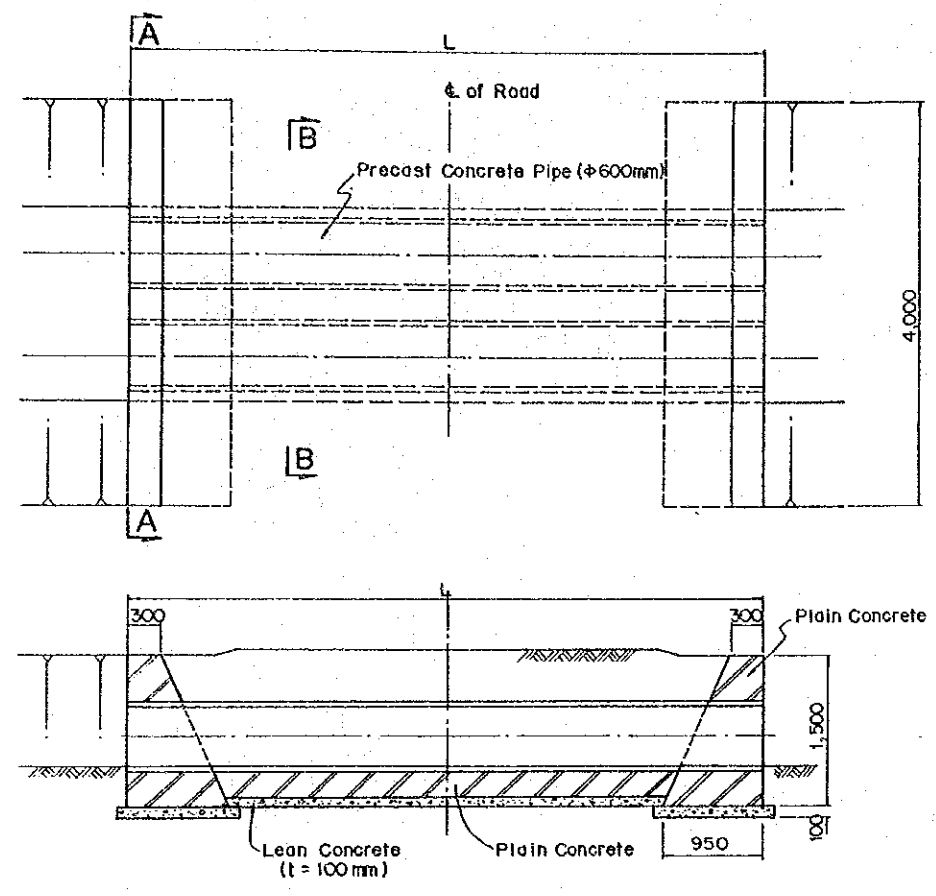
SECTION
NOT TO SCALE

FRONT VIEW
NOT TO SCALE

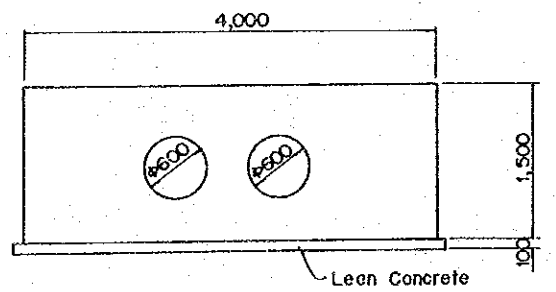
SIPSIPIN INTAKE

- Note :
1. Scope of Supply
1 Set of Steel Slide Gate (4 Sides waterprof type)
1,200 (W) x 600 (H) with guide frame and accessories.
 2. Civil Works
Following works shall be included
 - Chipping of concrete for guide frame.
 - Anchoring work for fixing of guide frame.
 - Moter filling for guide frame fixing.

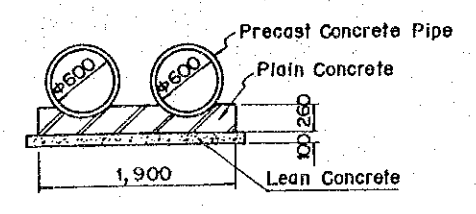
THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING IRRIGATION AND DRAINAGE FACILITIES Canal Related Structures Gate on Intake	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



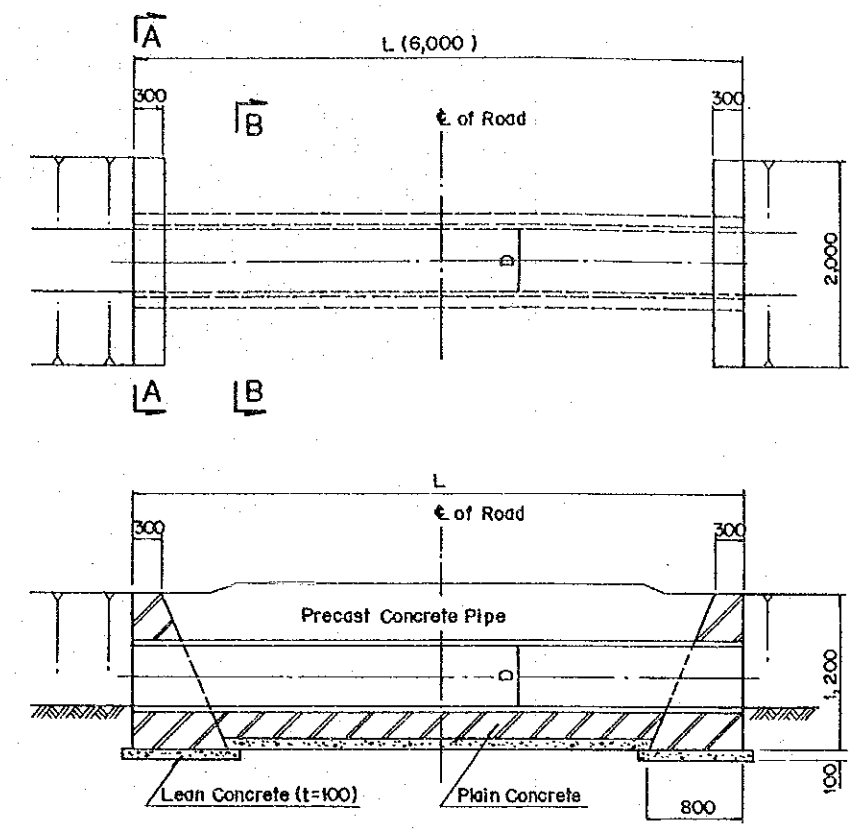
ROAD CROSSING, TYPE - A



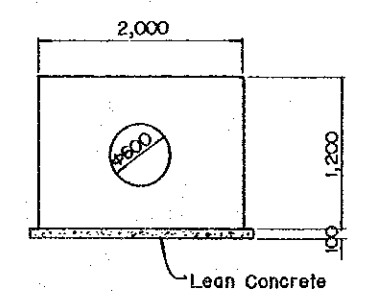
SECTION A-A



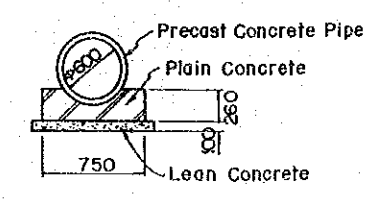
SECTION B-B



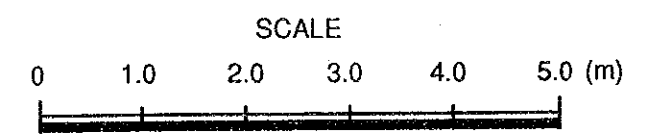
ROAD CROSSING, TYPE - B



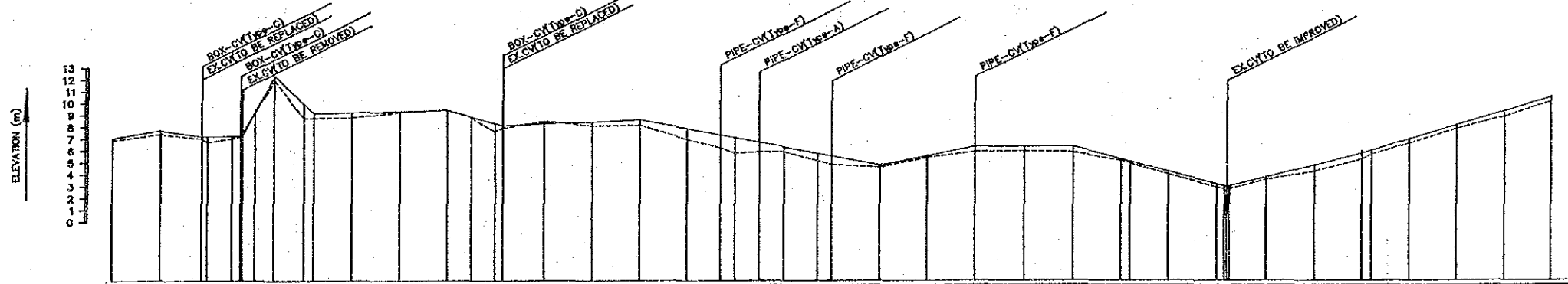
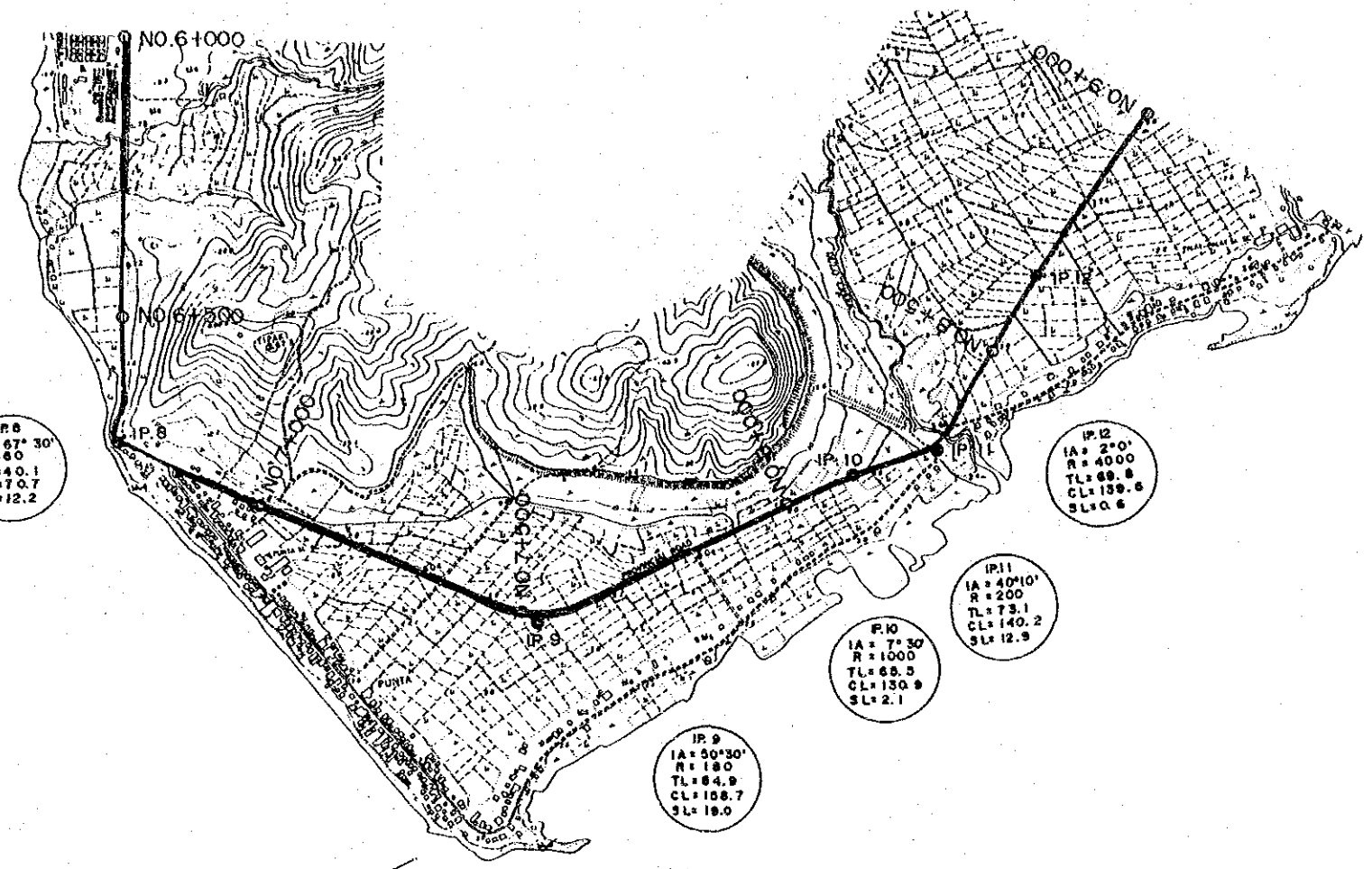
SECTION A-A



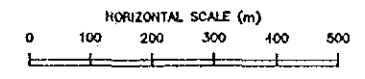
SECTION B-B



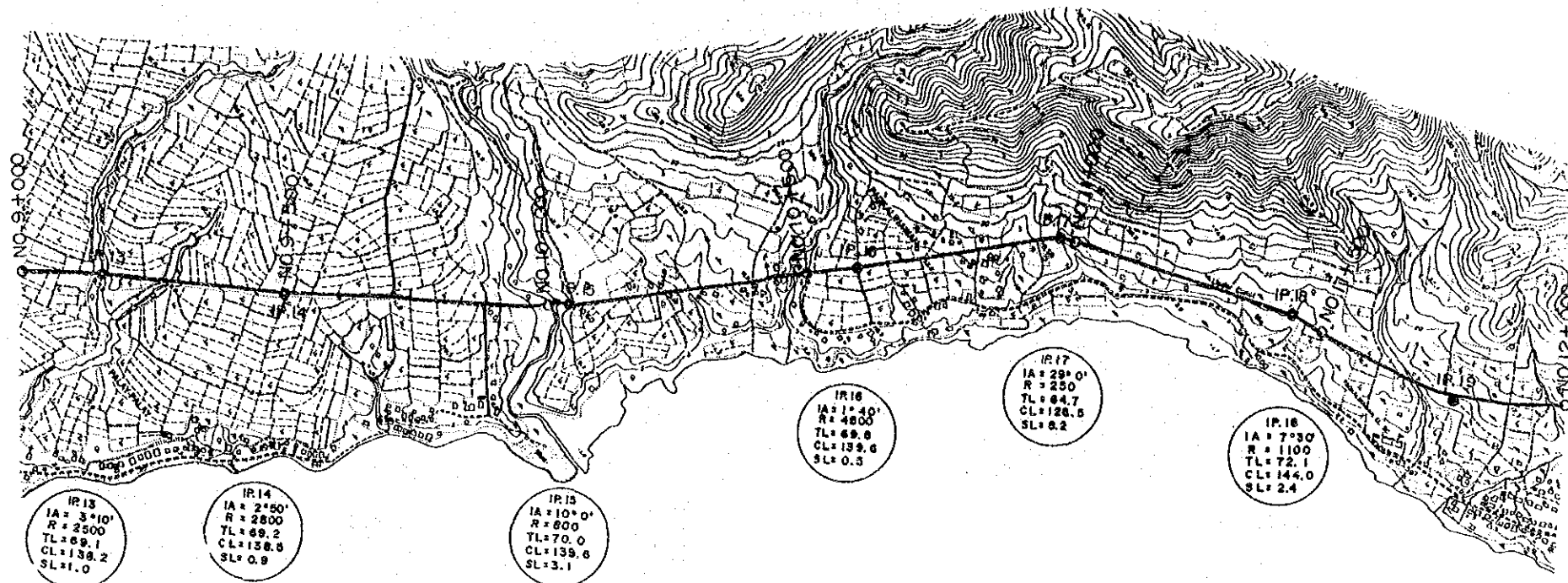
THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING	
IRRIGATION AND DRAINAGE FACILITIES	
Canal Related Structures	
Drainage Culvert	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



GRADIENT : I LENGTH : L																																														
EMBANKMENT HEIGHT	0.17	0.32	0.20	0.20	0.06	0.40	1.22	0.40	0.43	0.10	0.09	0.70	0.33	0.48	0.92	1.09	1.21	0.87	0.41	0.63	0.73	0.20	0.20	0.18	0.43	0.37	0.48	0.18	0.18	0.25	0.27	0.24	0.24	0.23	0.32	0.34	0.39	0.33	0.46	0.39						
EXCAVATION DEPTH	0.20																																													
PAVEMENT SURFACE ELEVATION	7.03	7.70	7.20	7.25	7.23	7.25	10.00	8.20	8.29	8.39	8.50	8.84	8.54	8.35	7.83	7.29	7.18	6.77	6.29	5.84	5.81	4.84	4.86	4.86	5.82	6.40	6.40	6.40	5.33	5.12	4.27	4.27	4.27	4.27	4.27	5.00	5.04	7.00	8.20	8.40	10.00					
EXISTING BANK ELEVATION	8.86	7.38	6.73	7.05	7.18	7.23	12.00	8.78	8.80	8.29	8.50	8.85	8.65	8.25	7.01	6.30	5.83	5.98	5.87	5.21	4.85	4.84	4.86	4.86	5.48	5.85	6.03	5.91	5.17	4.94	4.02	4.02	4.02	4.02	4.02	4.28	4.29	3.70	6.54	7.87	8.84	10.21				
REDUCED DISTANCE	0.00	100.00	118.00	122.00	125.00	128.00	130.00	132.00	133.00	134.00	135.00	136.00	137.00	138.00	139.00	140.00	141.00	142.00	143.00	144.00	145.00	146.00	147.00	148.00	149.00	150.00	151.00	152.00	153.00	154.00	155.00	156.00	157.00	158.00	159.00	160.00	161.00	162.00	163.00	164.00	165.00	166.00	167.00	168.00	169.00	170.00
DISTANCE	0.00	100.00	118.00	122.00	125.00	128.00	130.00	132.00	133.00	134.00	135.00	136.00	137.00	138.00	139.00	140.00	141.00	142.00	143.00	144.00	145.00	146.00	147.00	148.00	149.00	150.00	151.00	152.00	153.00	154.00	155.00	156.00	157.00	158.00	159.00	160.00	161.00	162.00	163.00	164.00	165.00	166.00	167.00	168.00	169.00	170.00
STATION NO.																																														
CURVE																																														



THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 ROAD
 Trunk Road
 Plan and Profile (3/6)
 Date _____ Drawing No. _____
 JAPAN INTERNATIONAL COOPERATION AGENCY



IR 13
IA = 3°10'
R = 2500
TL = 69.1
CL = 138.2
SL = 1.0

IR 14
IA = 2°50'
R = 2800
TL = 69.2
CL = 138.8
SL = 0.9

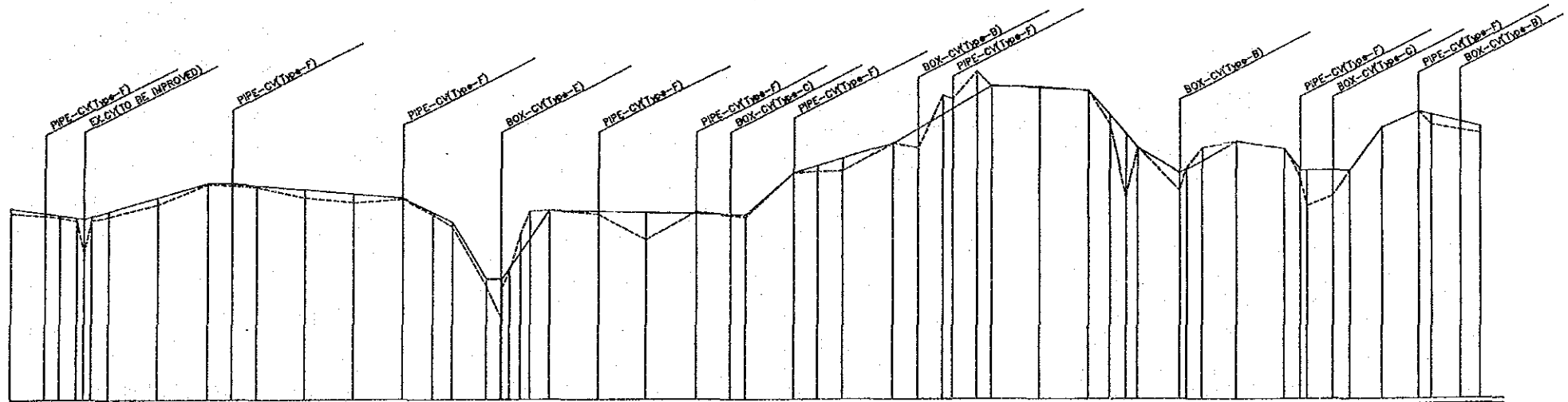
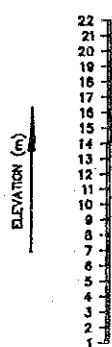
IR 15
IA = 10°0'
R = 800
TL = 70.0
CL = 139.6
SL = 3.1

IR 16
IA = 1°30'
R = 4600
TL = 69.6
CL = 139.6
SL = 0.3

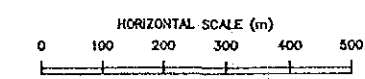
IR 17
IA = 29°0'
R = 250
TL = 64.7
CL = 126.5
SL = 8.2

IP 18
IA = 7°30'
R = 1100
TL = 72.1
CL = 144.0
SL = 2.4

IP 19
IA = 25°0'
R = 300
TL = 66.6
CL = 130.8
SL = 7.3



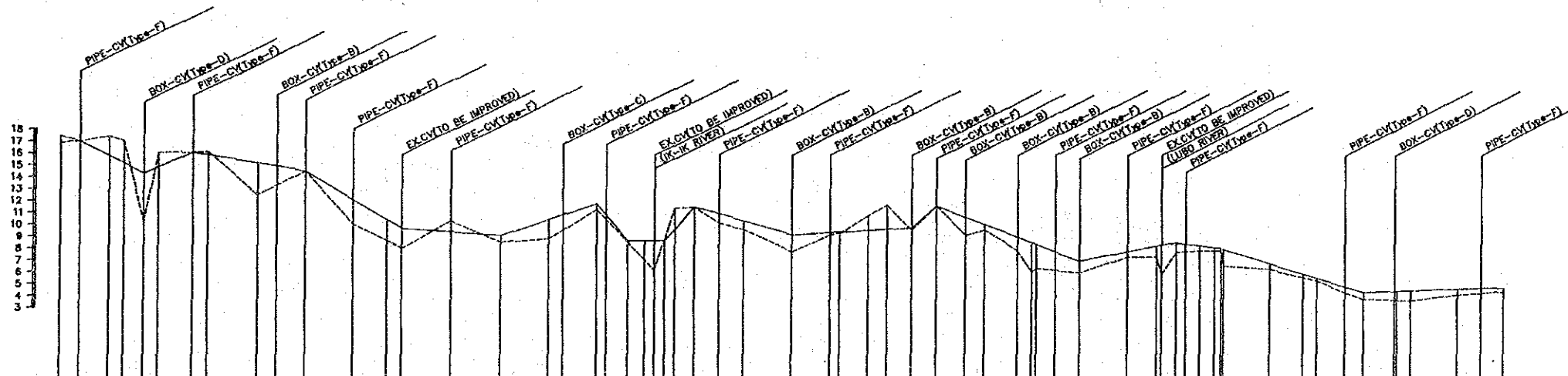
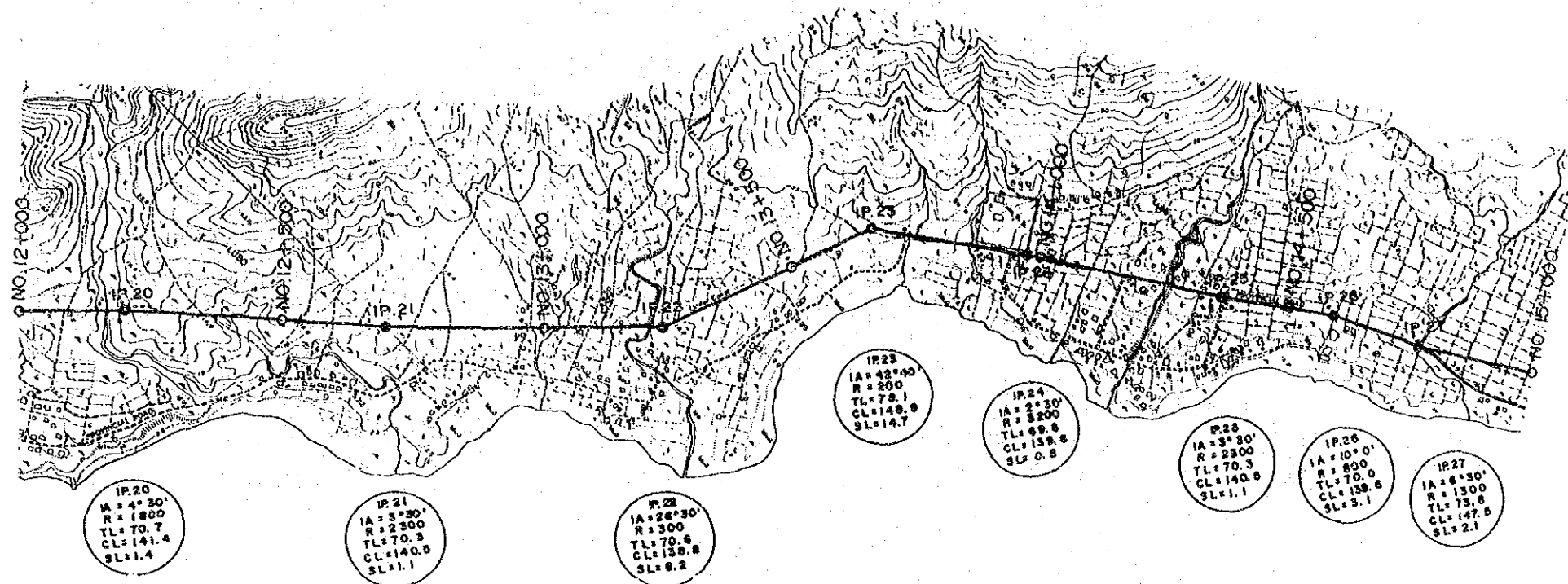
GRADIENT : I LENGTH : L	[Graphical representation of gradient and length segments]																																			
EMBANKMENT HEIGHT	0.38	0.21	0.18	0.28	0.43	0.81	0.11	0.25	0.14	0.68	0.75	0.12	0.25	0.41	0.80	0.28	0.23	0.15	0.19	1.57	0.08	0.06	0.77	0.13	1.43	2.25	2.00	0.03	0.62	0.56	0.56					
EXCAVATION DEPTH												2.71				0.15								1.87	0.25	1.38			0.12							
PAVEMENT SURFACE ELEVATION	10.80	10.21	10.03	9.88	10.39	11.29	12.80	12.80	12.83	12.29	11.94	11.80	10.40	9.80	4.80	4.90	4.95	5.19	5.35	5.19	10.27	10.46	10.38	10.22	10.15	10.22	10.19	10.19	10.19	10.19	10.19	10.19	10.19	10.19		
EXISTING BANK ELEVATION	16.2	10.00	9.08	8.85	10.80	10.88	12.88	12.80	12.40	11.81	11.19	11.47	10.30	9.19	4.30	4.30	4.30	4.30	4.30	4.30	10.10	10.44	10.28	10.10	9.98	10.19	10.19	10.19	10.19	10.19	10.19	10.19	10.19	10.19	10.19	
REDUCED DISTANCE	9000.00	8970.00	8930.00	8880.00	8820.00	8700.00	8400.00	8300.00	8200.00	8000.00	7700.00	7600.00	7400.00	7000.00	6300.00	6000.00	5900.00	5800.00	5700.00	5600.00	5000.00	4900.00	4800.00	4700.00	4600.00	4500.00	4400.00	4300.00	4200.00	4100.00	4000.00	3900.00	3800.00	3700.00	3600.00	3500.00
DISTANCE	0.00	70.00	300.00	600.00	930.00	1000.00	1400.00	1900.00	2300.00	2800.00	3300.00	3800.00	4300.00	4800.00	5300.00	5800.00	6300.00	6800.00	7300.00	7800.00	8300.00	8800.00	9300.00	9800.00	10300.00	10800.00	11300.00	11800.00	12300.00	12800.00	13300.00	13800.00	14300.00	14800.00	15300.00	
STATION NO.		70+00	300+00	600+00	930+00	1000+00	1400+00	1900+00	2300+00	2800+00	3300+00	3800+00	4300+00	4800+00	5300+00	5800+00	6300+00	6800+00	7300+00	7800+00	8300+00	8800+00	9300+00	9800+00	10300+00	10800+00	11300+00	11800+00	12300+00	12800+00	13300+00	13800+00	14300+00	14800+00	15300+00	
CURVE		IR 13-14					IR 14-15						IR 15-16						IR 16-17						IR 17-18						IR 18-19					



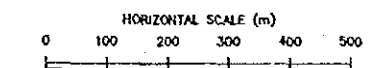
THE REPUBLIC OF THE PHILIPPINES
THE INTEGRATED JALA JALA RURAL
DEVELOPMENT PROJECT
TITLE OF DRAWING
ROAD
Trunk Road
Plan and Profile (4/6)

Date: _____ Drawing No.: _____

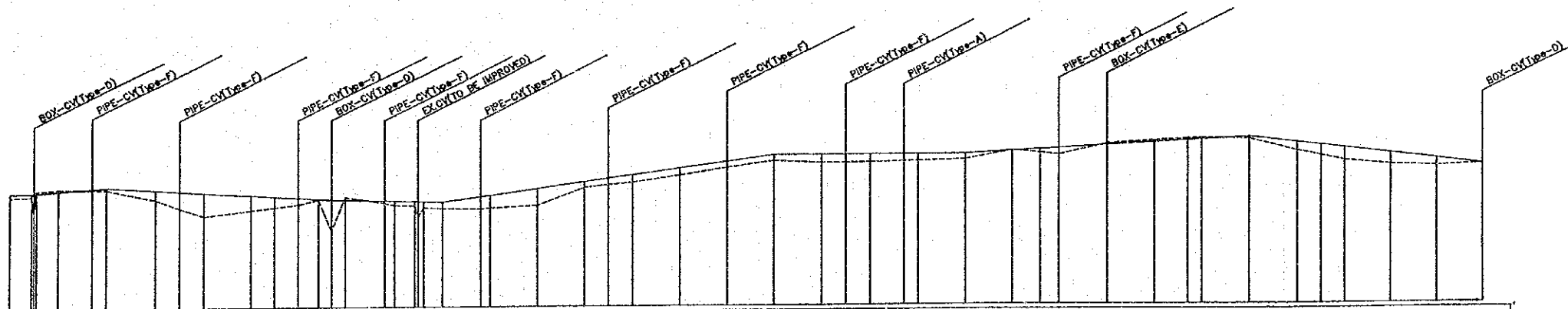
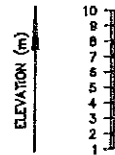
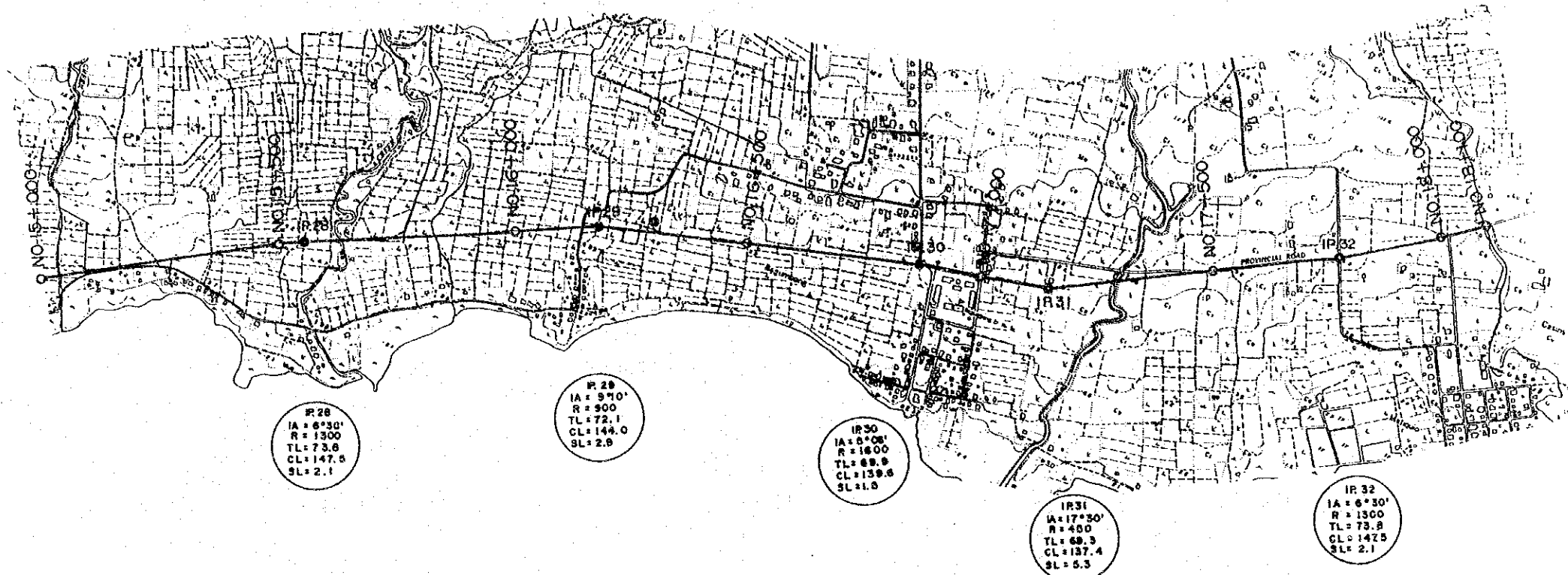
JAPAN INTERNATIONAL COOPERATION AGENCY



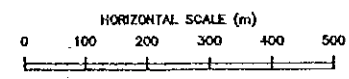
GRADIENT : LENGTH : L	-0.00% -0.10% -0.20% -0.30% -0.40% -0.50% -0.60% -0.70% -0.80% -0.90% -1.00% -1.10% -1.20% -1.30% -1.40%																																																
EMBANKMENT HEIGHT	0.58		0.05		2.71	1.81	2.07	1.75	1.70		0.35	1.83	1.31	0.55	0.12	1.81	2.55	0.03	0.83	0.74	1.43	0.22	0.10	0.20	1.33	0.48	1.12	2.48	2.07	1.58	1.00	0.40	0.92	0.30	0.92	0.49	0.33	0.33	0.49	0.59	0.75	0.64	0.50	0.43	0.30				
EXCAVATION DEPTH		1.81	1.89	1.18	0.23						0.92				0.12		0.13								1.28	2.01																							
PAVEMENT SURFACE ELEVATION	17.26	17.04	15.74	15.14	14.3	14.81	15.10	15.27	15.00	14.59	12.17	10.48	9.78	9.45	9.13	10.58	13.59	11.35	10.36	9.70	8.70	8.70	8.91	11.86	9.81	9.83	11.85	10.72	10.10	9.02	8.96	8.40	8.23	7.78	7.01	7.58	7.58	8.28	8.28	8.44	8.64	8.64	8.34	8.17	8.17	8.38	8.38	8.83	8.83
EXISTING BANK ELEVATION	18.82	17.04	17.04	17.04	18.00	15.18	12.58	13.48	14.59	15.10	10.10	8.70	8.08	10.37	8.57	8.87	10.48	11.35	10.36	9.70	8.70	8.70	9.18	11.86	9.81	9.83	11.85	10.72	10.10	9.02	8.96	8.40	8.23	7.78	7.01	7.58	7.58	8.28	8.28	8.44	8.64	8.64	8.34	8.17	8.17	8.38	8.38	8.83	8.83
REDUCED DISTANCE	0.00	12200.00	12290.00	12300.00	12300.00	12400.00	12440.00	12460.00	12500.00	12500.00	12600.00	12670.00	12700.00	12800.00	12900.00	13000.00	13050.00	13100.00	13120.00	13150.00	13200.00	13200.00	13250.00	13300.00	13300.00	13350.00	13400.00	13400.00	13450.00	13500.00	13500.00	13550.00	13600.00	13700.00	13750.00	13800.00	13900.00	14000.00	14100.00	14200.00	14300.00	14400.00	14500.00	14600.00	14700.00	14800.00	14900.00	15000.00	
DISTANCE	0.00	40.00	80.00	30.00	40.00	30.00	70.00	30.00	100.00	40.00	100.00	30.00	80.00	30.00	100.00	50.00	50.00	100.00	30.00	20.00	80.00	20.00	60.00	50.00	60.00	80.00	40.00	30.00	10.00	40.00	50.00	60.00	100.00	100.00	70.00	30.00	80.00	30.00	40.00	60.00	100.00	70.00	30.00	50.00	50.00	50.00			
STATION NO.		0+00	0+40	0+70	1+00	1+30	2+00	2+30	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	24+00	25+00	26+00	27+00	28+00	29+00	30+00	31+00	32+00	33+00	34+00	35+00	36+00	37+00	38+00	39+00	40+00			
CURVE			U= 03-30-00,R=1800			U= 03-30-00,R=2300						U= 28-30-00,R=300						U= 42-40-00,R=200			U= 03-30-00,R=2200						U= 03-30-00,R=3300					U= 10-00-00,R=800																	



THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING ROAD Trunk Road Plan and Profile (5/6)	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



GRADIENT : i LENGTH : L																																																			
EMBANKMENT HEIGHT	0.30	0.30	0.08	0.19	0.87	1.42	1.87	1.27	0.91	0.36	0.09	2.68	0.27	0.39	0.39	0.34	0.35	1.02	1.08	1.42	0.30	0.55	0.83	0.91	0.51	0.51	0.51	0.71	0.70	0.87	0.80	0.38	0.47	0.51	0.46	0.17	0.72	0.90	1.07	0.87	0.65										
EXCAVATION DEPTH		0.18	0.15					0.23																																											
PAVEMENT SURFACE ELEVATION	4.77	4.77	4.95	5.17	5.28	5.04	4.82	4.81	4.58	4.47	4.36	4.26	4.20	4.20	4.20	4.00	4.00	4.45	4.45	5.11	5.67	5.85	6.23	6.78	7.34	7.80	7.98	7.98	7.98	7.98	7.98	7.98	7.98	8.12	8.28	8.24	8.57	8.78	8.64	9.01	9.23	9.23	9.78	9.85	9.85						
EXISTING BANK ELEVATION	4.47	4.50	5.10	5.08	5.07	4.23	3.50	2.84	3.32	3.36	3.60	4.21	4.32	4.32	4.32	3.45	3.45	3.40	3.48	3.68	5.17	5.40	5.80	6.18	6.82	7.39	7.19	7.20	7.23	7.23	7.23	7.23	7.43	8.17	7.88	7.78	8.24	8.57	8.98	9.10	9.14	9.23	9.78	9.85	9.85						
REDUCED DISTANCE	0.00	15000.00	30000.00	45000.00	60000.00	75000.00	90000.00	105000.00	120000.00	135000.00	150000.00	165000.00	180000.00	195000.00	210000.00	225000.00	240000.00	255000.00	270000.00	285000.00	300000.00	315000.00	330000.00	345000.00	360000.00	375000.00	390000.00	405000.00	420000.00	435000.00	450000.00	465000.00	480000.00	495000.00	510000.00	525000.00	540000.00	555000.00	570000.00	585000.00	600000.00	615000.00	630000.00	645000.00	660000.00						
DISTANCE	0.00	45.00	90.00	135.00	180.00	225.00	270.00	315.00	360.00	405.00	450.00	495.00	540.00	585.00	630.00	675.00	720.00	765.00	810.00	855.00	900.00	945.00	990.00	1035.00	1080.00	1125.00	1170.00	1215.00	1260.00	1305.00	1350.00	1395.00	1440.00	1485.00	1530.00	1575.00	1620.00	1665.00	1710.00	1755.00	1800.00	1845.00	1890.00	1935.00	1980.00						
STATION NO.		18+00	18+45	18+90	19+35	19+80	20+25	20+70	21+15	21+60	22+05	22+50	22+95	23+40	23+85	24+30	24+75	25+20	25+65	26+10	26+55	27+00	27+45	27+90	28+35	28+80	29+25	29+70	30+15	30+60	31+05	31+50	31+95	32+40	32+85	33+30	33+75	34+20	34+65	35+10	35+55	36+00	36+45	36+90	37+35	37+80					
CURVE		U= 06-30-00, R=1300										U= 00-10-00, R= 900										U= 05-08-00, R=1800										U= 17-30-00, R= 450										U= 06-30-00, R=1300									



THE REPUBLIC OF THE PHILIPPINES
 THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT
 TITLE OF DRAWING
 Road
 Trunk Road
 Plan and Profile (6/6)

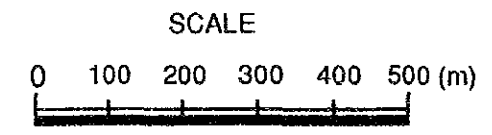
Date	Drawing No.
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JAPAN INTERNATIONAL COOPERATION AGENCY

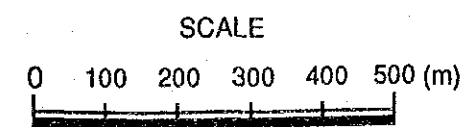
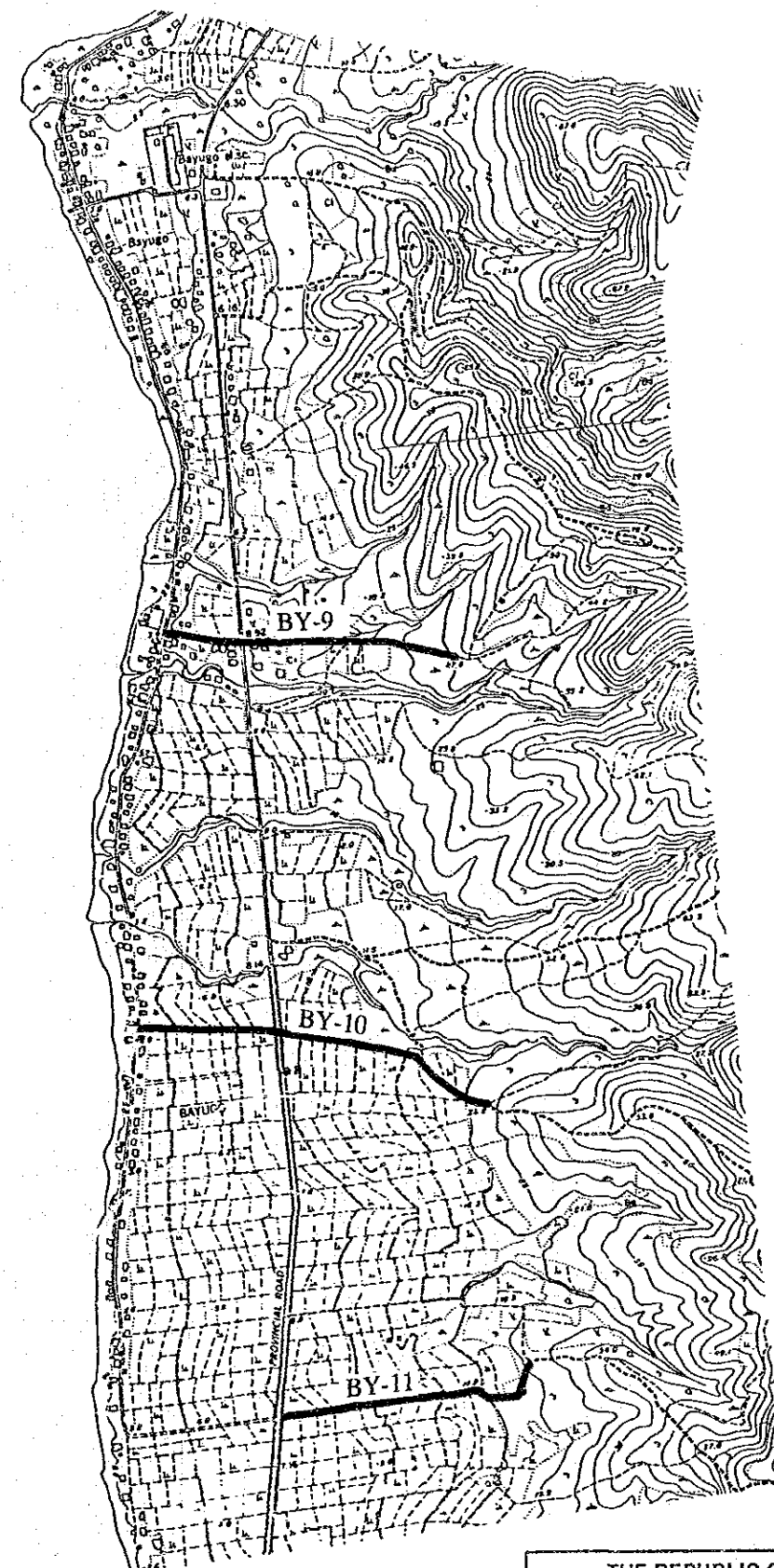
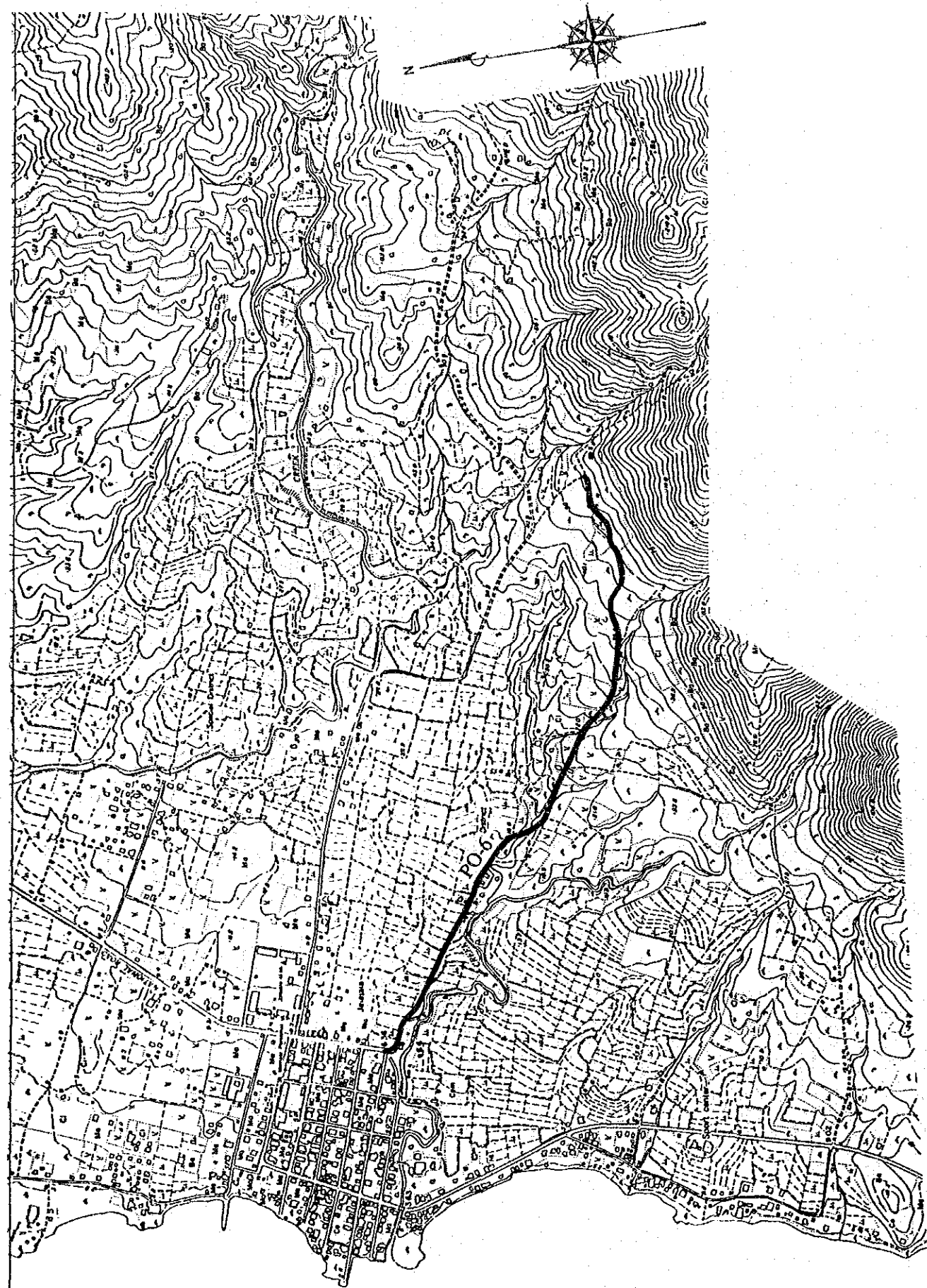


LIST OF FEEDER ROAD

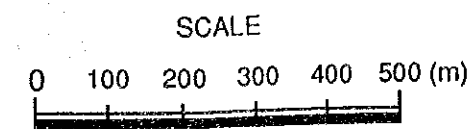
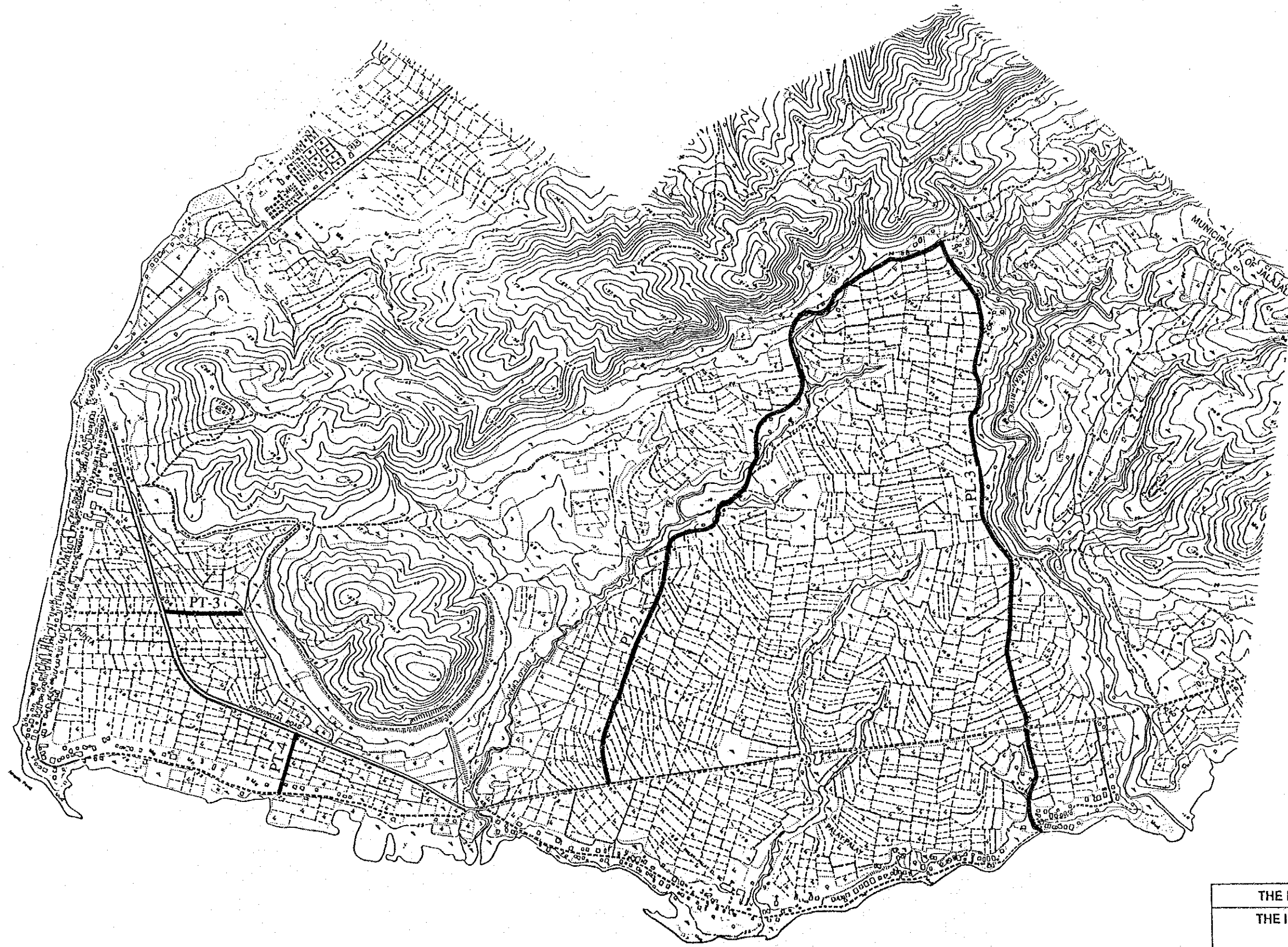
Village Name		Length m
Sipsipin	SP-3	560
	SP-4	1,000
	SP-6	630
Jala-Jala	PO-6	1,300
Bayugo	BY-9	470
	BY-10	570
	BY-11	360
Punta	PT-3	210
	PT-4	150
Palay-Palay	PL-2	1,200
	PL-3	2,400
Pagkalinawan	PG-2	110
	PG-3	340
	PG-4	220
	PG-5	350
Lubo	LB-3	500
	LB-7	150
	LB-10	350
Bagumbon	BG-2	600
	BG-3	1,100
	BG-5	1,400
Total		13,970



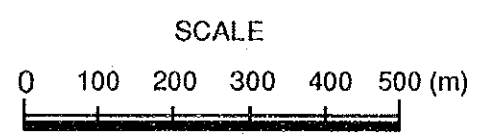
THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING ROAD Feeder Road General Layout (1/5)	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



THE REPUBLIC OF THE PHILIPPINES	
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT	
TITLE OF DRAWING	
ROAD	
Feeder Road	
General Layout (2/5)	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



THE REPUBLIC OF THE PHILIPPINES			
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT			
TITLE OF DRAWING			
ROAD			
Feeder Road			
General Layout (3/5)			
Date		Drawing No.	
JAPAN INTERNATIONAL COOPERATION AGENCY			



THE REPUBLIC OF THE PHILIPPINES		
THE INTEGRATED JALA JALA RURAL DEVELOPMENT PROJECT		
TITLE OF DRAWING		
ROAD		
Feeder Road		
General Layout (4/5)		
Date		Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY		