

No. 02

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

GHANA IRRIGATION DEVELOPMENT AUTHORITY  
THE REPUBLIC OF GHANA

**THE STUDY  
ON  
THE REHABILITATION OF IRRIGATION PROJECTS  
IN  
THE REPUBLIC OF GHANA**

Volume III

**DRAWINGS**

MAY 1997

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**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**

**GHANA IRRIGATION DEVELOPMENT AUTHORITY  
THE REPUBLIC OF GHANA**

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ON  
THE REHABILITATION OF IRRIGATION PROJECTS  
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- Annex-C    Soil and Land Suitability
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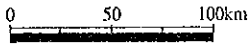






# LOCATION MAP

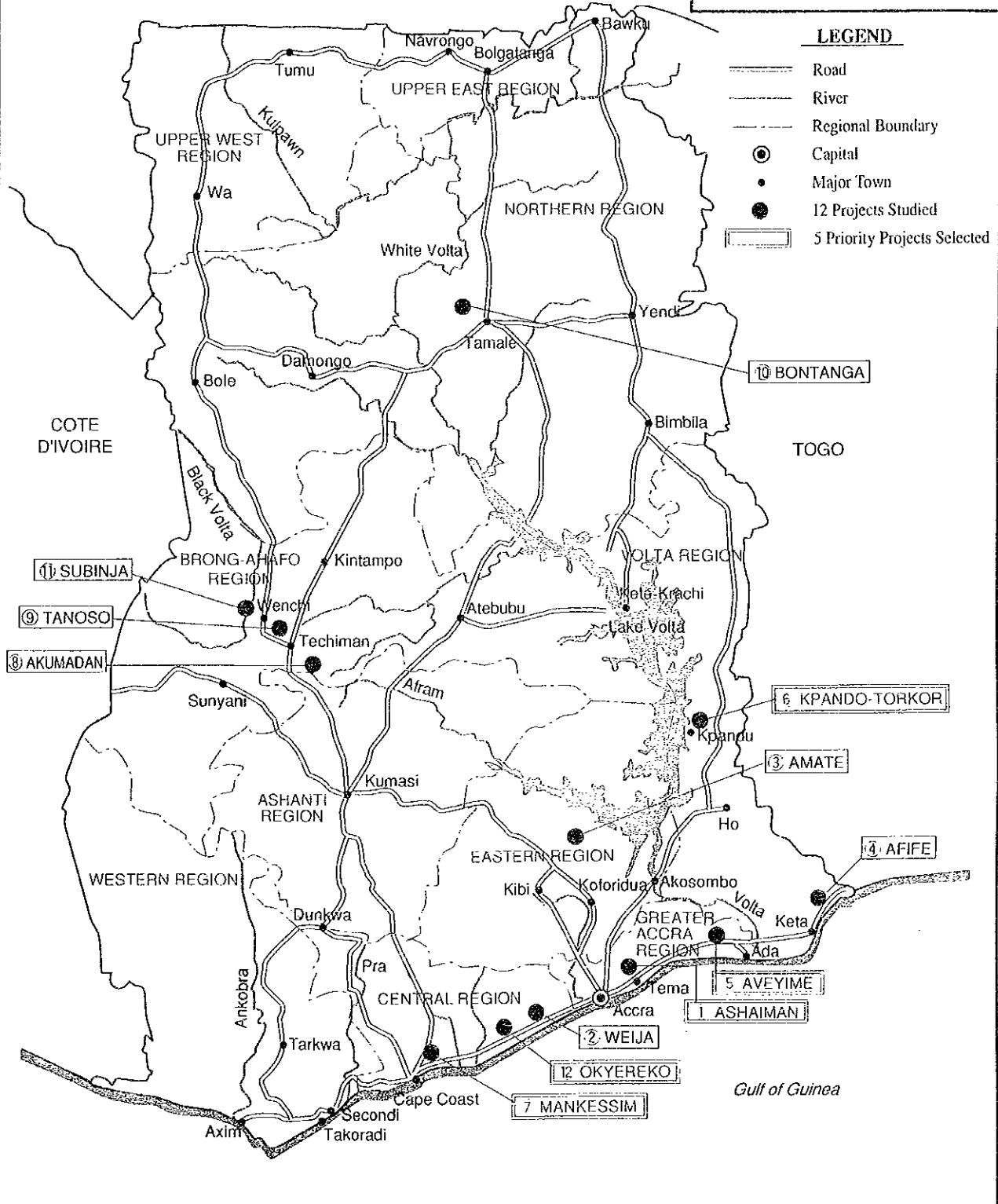
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BURKINA FASO

## LEGEND

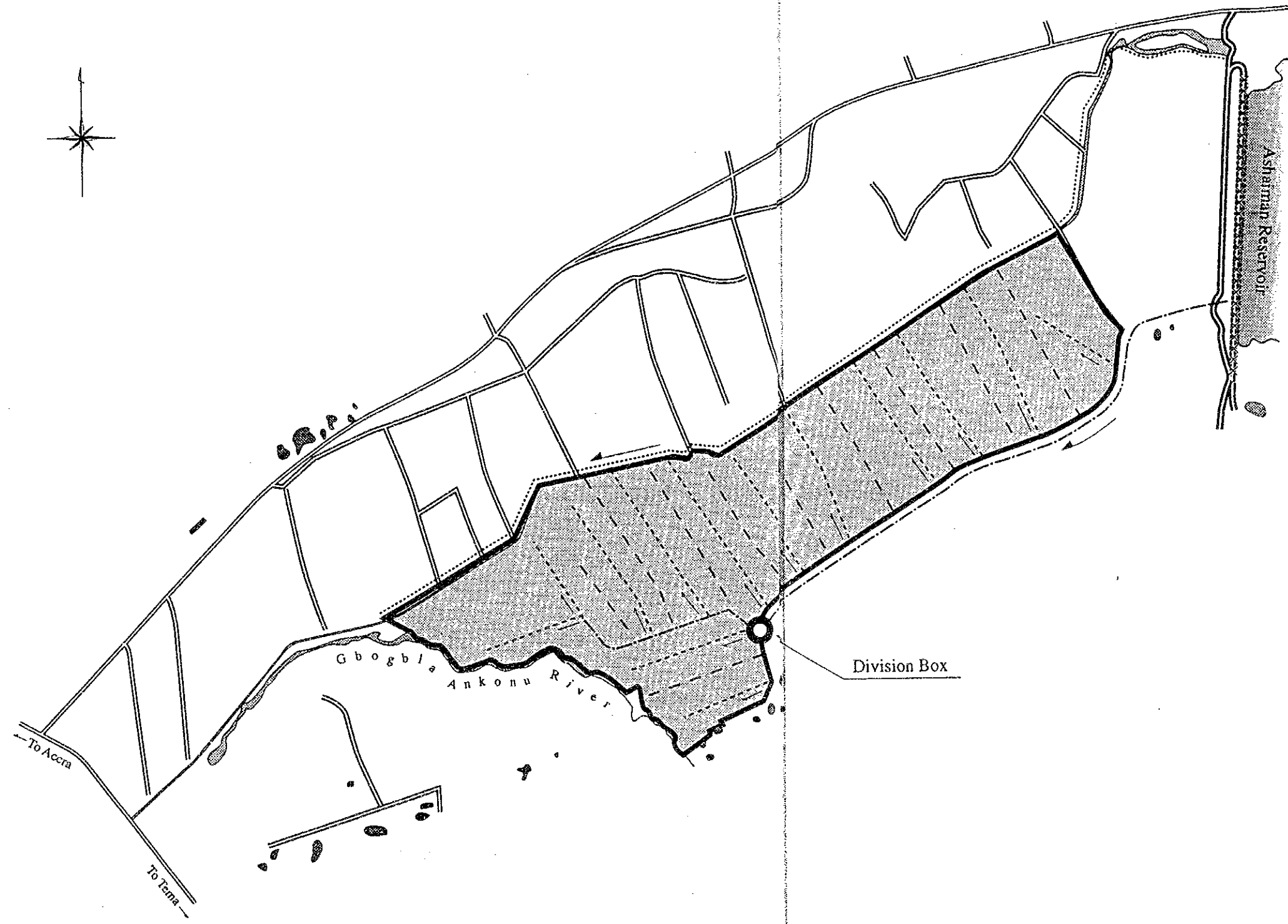
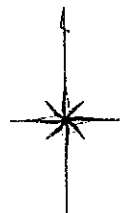
- Road
- River
- Regional Boundary
- Capital
- Major Town
- 12 Projects Studied
- 5 Priority Projects Selected



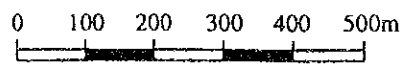
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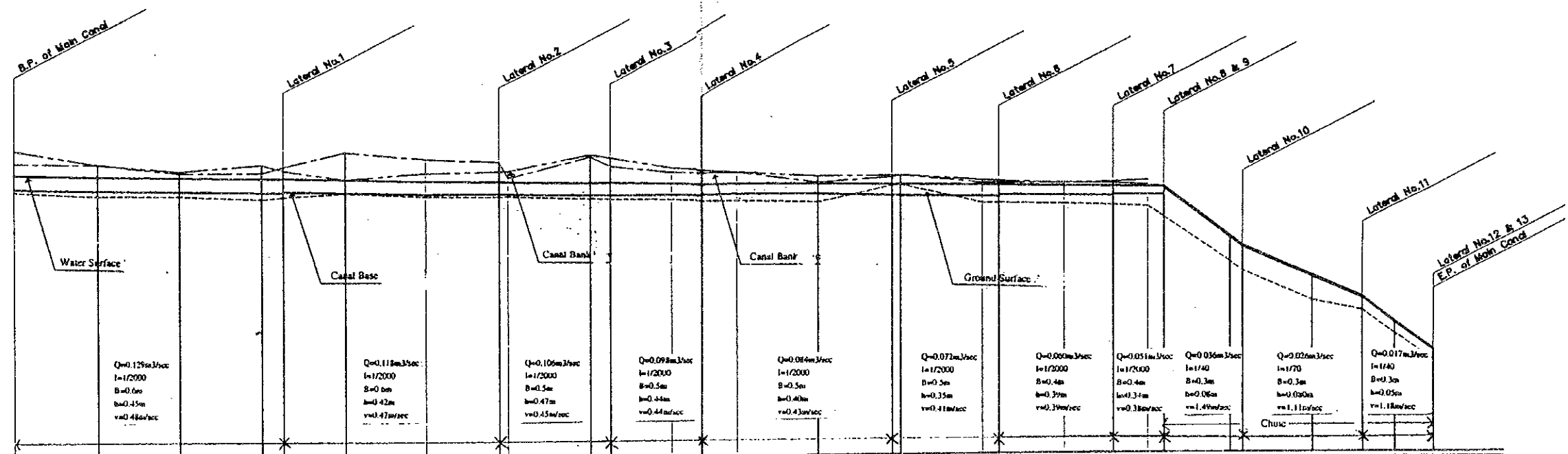
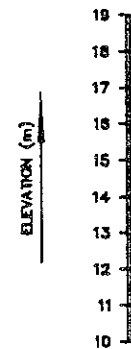
## *I. ASHAIMAN PROJECT*



LEGEND	
====	ROAD
XXXXXX	Dam
-----	Main Canal
.....	Lateral Canal
.....	Main Drain
- - - -	Lateral Drain
■	Village
▨	Propose Area (56ha)



THE REPUBLIC OF GHANA			
THE STUDY			
ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		ASHAIMAN PROJECT	
PROJECT LAYOUT MAP			
DATE		DRAWING NO.	1 - AS-1
JAPAN INTERNATIONAL COOPERATION AGENCY			



STATION NO.	PROPOSED		EXISTING CONDITIONS		REDUCED DISTANCE	DISTANCE
	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	CANAL BANK ELE. (LEFT)	CANAL BANK ELE. (RIGHT)		
No. 0	17.90	17.34	18.05	18.35	0.00	0.00
No. 1	17.85	17.28	18.34	18.34	100.00	100.00
No. 2	17.60	17.24	18.04	17.98	200.00	100.00
No. 3	17.76	17.19	18.29	17.88	300.00	100.00
No. 4	17.74	17.18	18.05	18.20	328.00	28.00
No. 5	17.70	17.18	17.71	18.79	400.00	74.00
No. 6	17.85	17.13	17.97	18.52	500.00	100.00
No. 7	17.81	17.13	18.01	18.40	588.00	88.00
No. 8	17.60	17.12	18.04	17.78	600.00	11.00
No. 9	17.56	17.07	18.84	18.28	700.00	100.00
No. 10	17.50	17.06	18.12	17.94	723.00	23.00
No. 11	17.37	17.03	18.00	18.85	800.00	78.00
No. 12	17.45	17.03	17.91	18.77	900.00	46.00
No. 13	17.40	17.00	17.71	18.68	1000.00	100.00
No. 14	17.38	16.90	17.72	17.85	1090.00	90.00
No. 15	17.36	16.90	17.71	17.71	1100.00	10.00
No. 16	17.30	16.85	17.50	18.57	1200.00	100.00
No. 17	17.25	16.80	17.46	17.38	1220.00	20.00
No. 18	17.25	16.80	17.37	17.37	1300.00	80.00
No. 19	17.23	16.80	17.34	17.41	1358.00	58.00
No. 20	17.20	16.80	17.28	17.45	1400.00	41.00
No. 21	17.18	16.75	17.28	17.45	1420.00	20.00
No. 22	17.18	16.75	17.28	17.45	1500.00	80.00
No. 23	17.18	16.75	17.28	17.45	1515.00	15.00
No. 24	17.18	16.75	17.28	17.45	1600.00	85.00
No. 25	17.18	16.75	17.28	17.45	1650.00	50.00
No. 26	17.18	16.75	17.28	17.45	1700.00	40.00
No. 27	17.18	16.75	17.28	17.45	1745.00	45.00

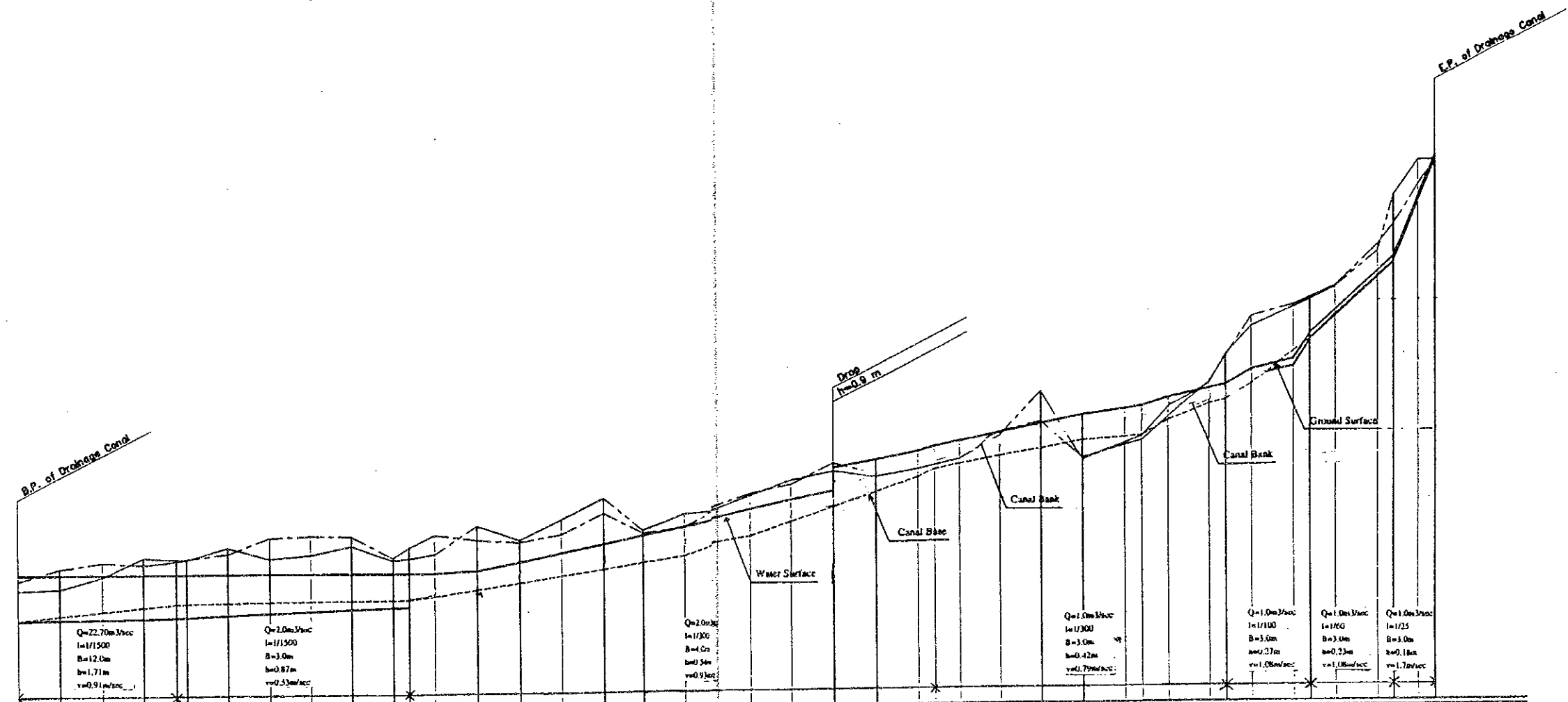
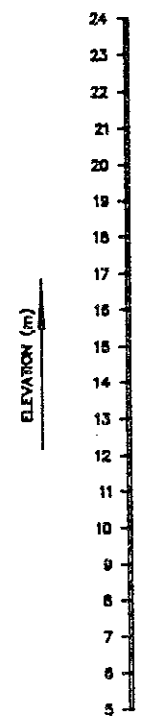
THE REPUBLIC OF GHANA

THE STUDY  
ON  
THE REHABILITATION OF IRRIGATION PROJECTS

TITLE OF DRAWING: ASHAIMAN PROJECT

PROFILE OF MAIN IRRIGATION CANAL

DATE	DRAWING NO.	2 - AS-2
JAPAN INTERNATIONAL COOPERATION AGENCY		

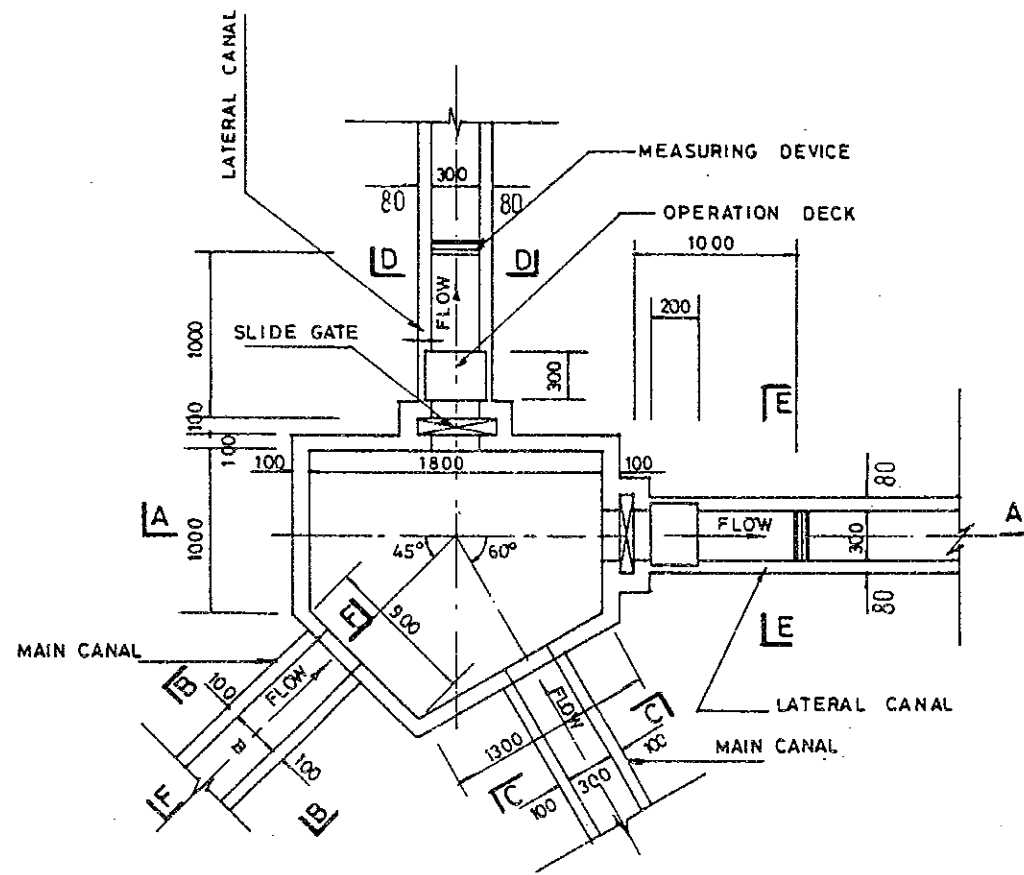


STATION NO.	DISTANCE	REDUCED DISTANCE	EXISTING CONDITIONS			PROPOSED	
			GROUND SURFACE ELEVATION	CANAL BANK ELE.(RIGHT)	CANAL BANK ELE.(LEFT)	CANAL BASE ELEVATION	WATER SURFACE ELEVATION
Sta. 0	0.00	0.00	5.14	6.70	6.33	5.13	6.93
Sta. 1	100.00	100.00	5.31	7.18	6.37	5.15	6.93
Sta. 2	100.00	200.00	5.47	7.41	6.64	5.17	6.93
Sta. 3	100.00	300.00	5.64	7.52	7.59	5.18	6.93
Sta. 4	75.00	375.00	5.76	7.45	7.53	5.22	6.93
Sta. 5	25.00	400.00	6.77	7.64	7.50	5.24	6.93
Sta. 6	100.00	500.00	5.90	7.73	7.96	5.31	6.93
Sta. 7	100.00	600.00	6.82	8.35	7.52	6.38	6.93
Sta. 8	100.00	700.00	5.64	8.41	7.58	6.44	6.93
Sta. 9	100.00	800.00	5.65	8.36	8.01	6.51	6.93
Sta. 10	100.00	900.00	6.97	7.64	7.44	6.59	6.93
Sta. 11	36.00	936.00	5.06	7.34	7.52	6.63	6.93
Sta. 12	61.00	1000.00	6.07	8.44	7.67	6.63	6.93
Sta. 13	100.00	1100.00	6.27	8.21	8.79	7.01	7.01
Sta. 14	100.00	1200.00	6.52	8.12	6.20	7.34	7.34
Sta. 15	100.00	1300.00	6.77	8.40	8.01	7.68	7.68
Sta. 16	100.00	1400.00	7.02	8.25	8.54	8.01	8.01
Sta. 17	100.00	1500.00	7.27	8.42	8.64	8.34	8.34
Sta. 18	100.00	1600.00	7.62	8.67	8.76	8.68	8.68
Sta. 19	100.00	1700.00	8.26	8.95	8.67	8.94	8.94
Sta. 20	100.00	1800.00	8.62	10.26	10.43	9.68	9.68
Sta. 21	100.00	1900.00	8.35	11.09	10.77	10.91	10.91
Sta. 22	100.00	2000.00	8.94	10.63	10.53	11.20	11.20
Sta. 23	100.00	2100.00	10.50	11.01	10.82	11.51	11.51
Sta. 24	36.00	2136.00	10.80	11.13	10.87	11.71	11.71
Sta. 25	61.00	2200.00	11.01	11.41	11.19	11.91	11.91
Sta. 26	100.00	2300.00	11.29	12.28	12.11	12.24	12.24
Sta. 27	100.00	2400.00	11.57	12.36	13.06	12.57	12.57
Sta. 28	100.00	2500.00	11.90	11.21	11.12	12.81	12.81
Sta. 29	100.00	2600.00	12.03	11.65	11.79	13.15	13.15
Sta. 30	36.00	2636.00	12.05	11.83	12.06	13.23	13.23
Sta. 31	61.00	2700.00	12.68	12.81	13.19	13.58	13.58
Sta. 32	100.00	2800.00	13.30	14.17	14.59	13.81	13.81
Sta. 33	36.00	2836.00	13.46	15.17	15.24	14.04	14.04
Sta. 34	61.00	2900.00	14.07	16.78	16.34	14.65	14.65
Sta. 35	100.00	3000.00	15.35	17.20	17.10	15.04	15.04
Sta. 36	36.00	3036.00	15.81	17.48	17.39	15.21	15.21
Sta. 37	61.00	3100.00	16.82	17.93	17.86	15.97	15.97
Sta. 38	100.00	3200.00	18.30	18.29	18.29	16.49	16.49
Sta. 39	36.00	3236.00	18.90	20.37	21.50	16.83	16.83
Sta. 40	61.00	3300.00	21.31	21.81	22.85	17.29	17.29
Sta. 41	36.00	3336.00	22.65	22.85	22.86	18.03	18.03
Sta. 42	100.00	3400.00	22.65	22.85	22.86	18.29	18.29
Sta. 43	36.00	3436.00	22.65	22.85	22.86	18.49	18.49
Sta. 44	61.00	3500.00	22.65	22.85	22.86	18.83	18.83
Sta. 45	36.00	3536.00	22.65	22.85	22.86	19.03	19.03
Sta. 46	61.00	3600.00	22.65	22.85	22.86	19.29	19.29
Sta. 47	36.00	3636.00	22.65	22.85	22.86	19.49	19.49
Sta. 48	61.00	3700.00	22.65	22.85	22.86	19.83	19.83
Sta. 49	36.00	3736.00	22.65	22.85	22.86	20.03	20.03
Sta. 50	61.00	3800.00	22.65	22.85	22.86	20.29	20.29
Sta. 51	36.00	3836.00	22.65	22.85	22.86	20.49	20.49
Sta. 52	61.00	3900.00	22.65	22.85	22.86	20.83	20.83
Sta. 53	36.00	3936.00	22.65	22.85	22.86	21.03	21.03
Sta. 54	61.00	4000.00	22.65	22.85	22.86	21.29	21.29
Sta. 55	36.00	4036.00	22.65	22.85	22.86	21.49	21.49
Sta. 56	61.00	4100.00	22.65	22.85	22.86	21.83	21.83
Sta. 57	36.00	4136.00	22.65	22.85	22.86	22.03	22.03
Sta. 58	61.00	4200.00	22.65	22.85	22.86	22.29	22.29
Sta. 59	36.00	4236.00	22.65	22.85	22.86	22.49	22.49
Sta. 60	61.00	4300.00	22.65	22.85	22.86	22.83	22.83

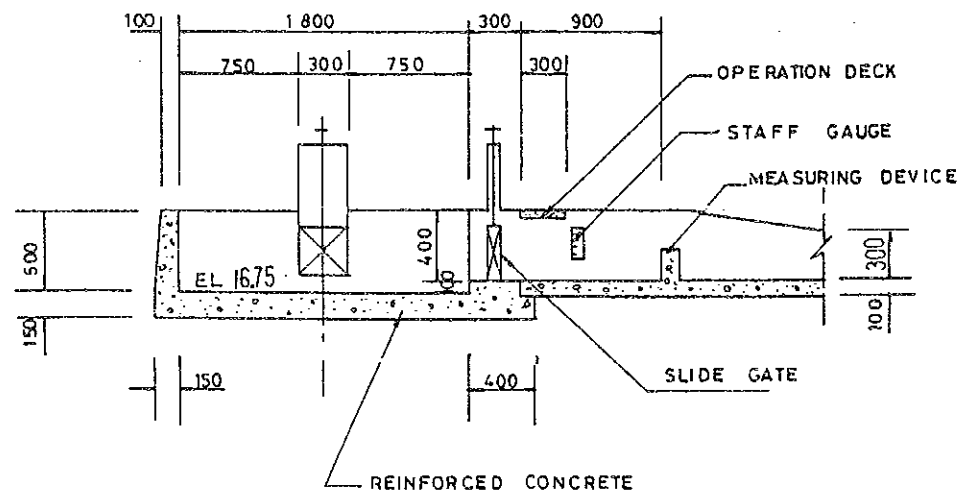
THE REPUBLIC OF GHANA  
THE STUDY  
ON  
THE REHABILITATION OF IRRIGATION PROJECTS  
TITLE OF DRAWING ASHAIMAN PROJECT

**PROFILE OF MAIN DRAIN**

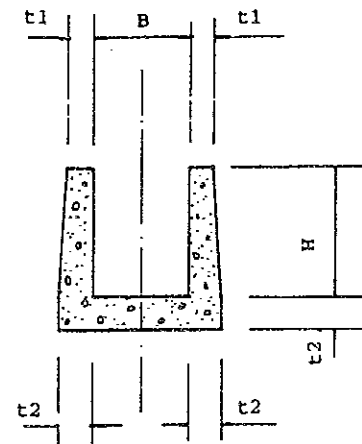
DATE	DRAWING NO.	3 - AS-3
JAPAN INTERNATIONAL COOPERATION AGENCY		



PLAN

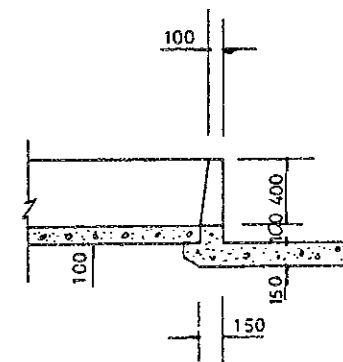


SECTION A-A

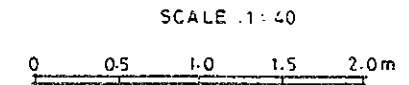


DIVISION BOX SECTION				
	B-B	C-C	D-D	E-E
B	400	300	300	300
H	500	400	300	300
t1	100	100	80	80
t2	100	100	80	80

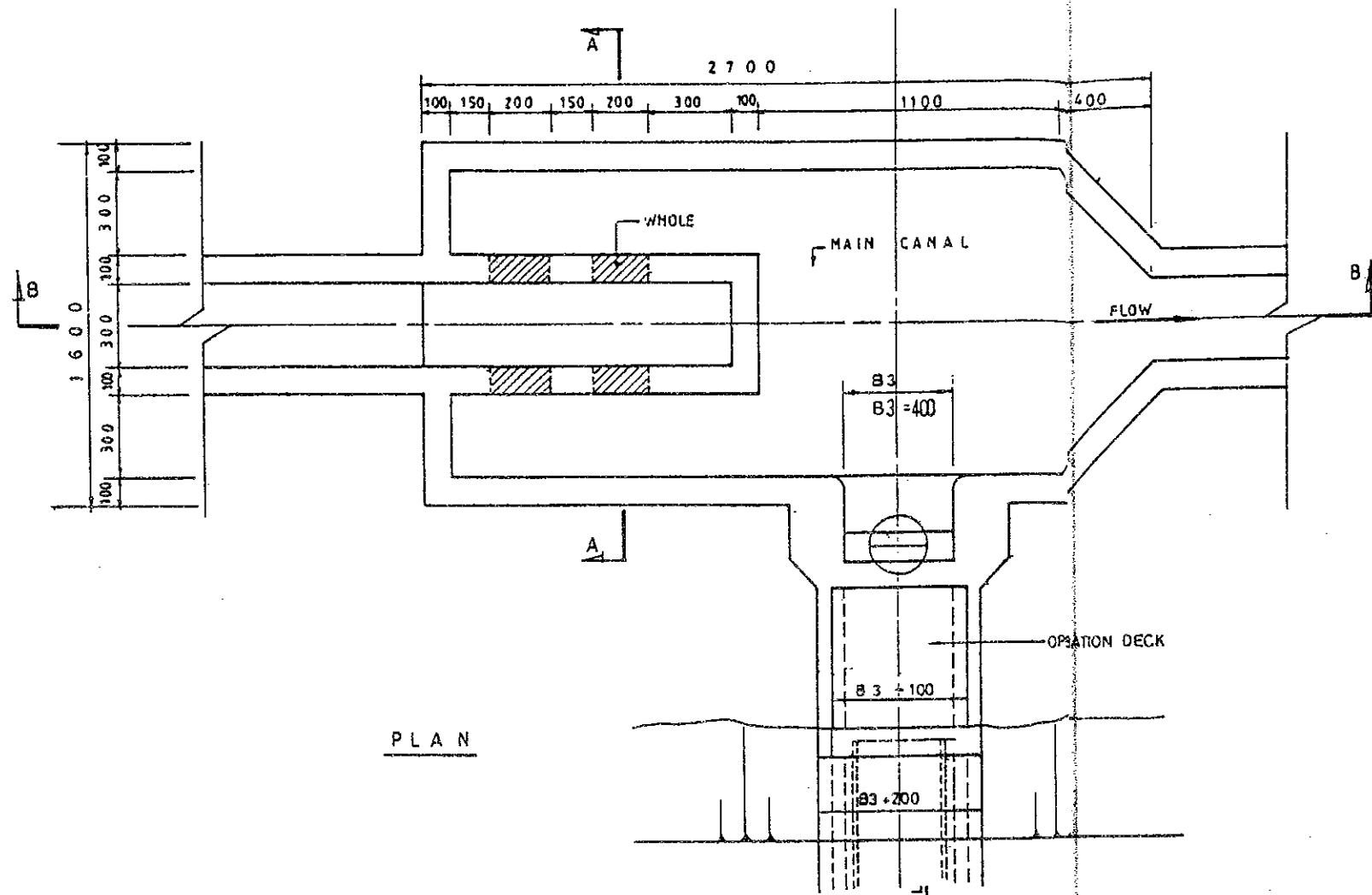
SECTION B-B C-C D-D & E-E



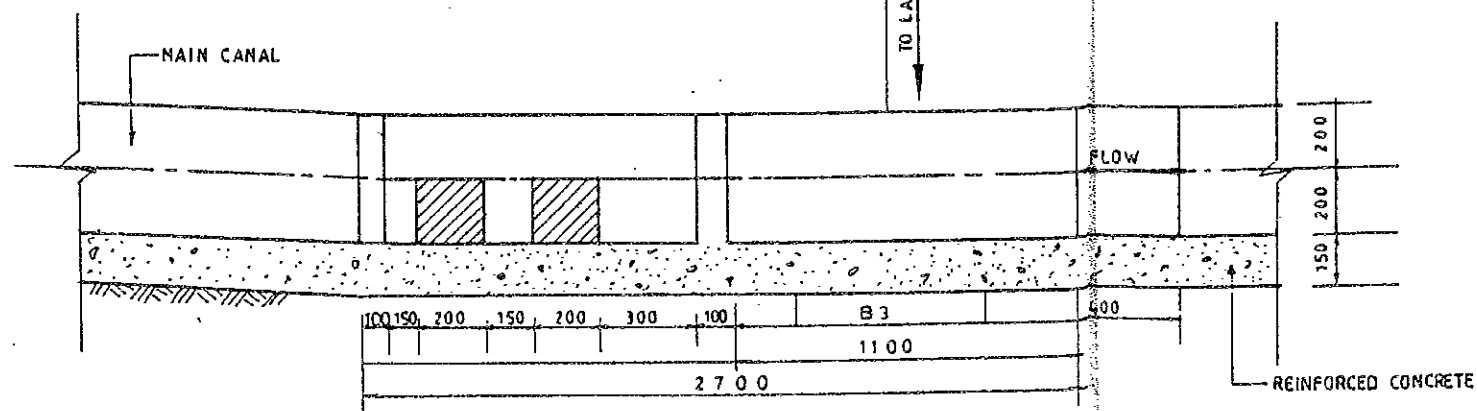
SECTION F-F



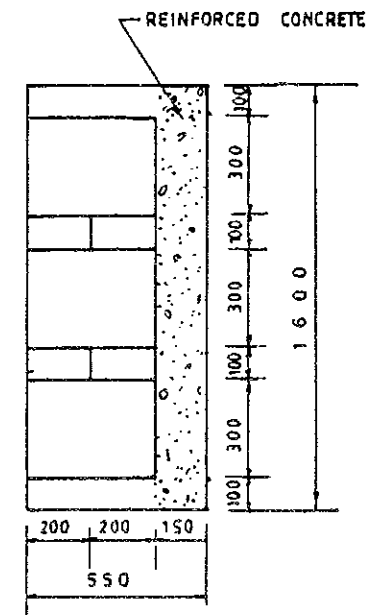
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		ASHAIMAN PROJECT	
DIVISION BOX FOR NO.8 & NO.9 LATERAL CANALS			
DATE		DRAWING NO.	4-AS-4
JAPAN INTERNATIONAL COOPERATION AGENCY			



PLAN

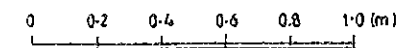


PROFILE



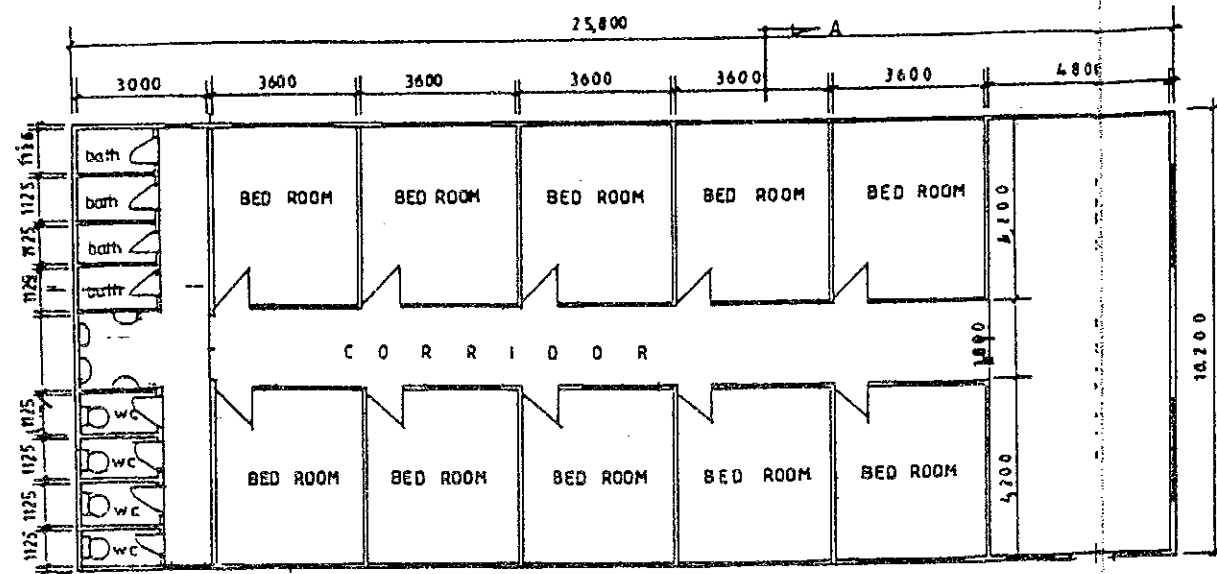
SECTION A - A

SCALE (1 : 20)

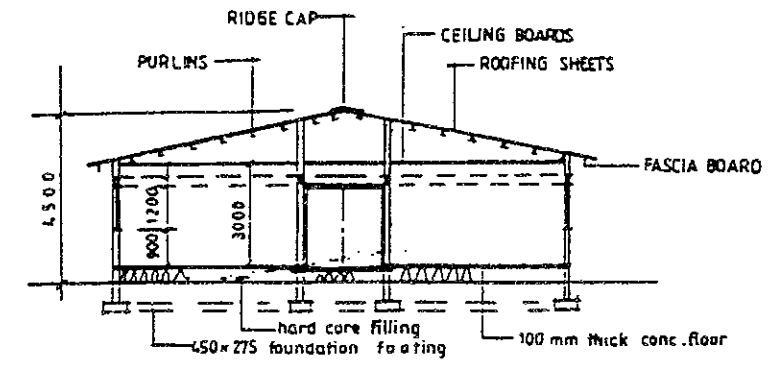


THE REPUBLIC OF GHANA		
THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECTS		
TITLE OF DRAWING		ASHAIMAN PROJECT
CHUTE		
DATE	DRAWING NO.	5 - AS-5
JAPAN INTERNATIONAL COOPERATION AGENCY		

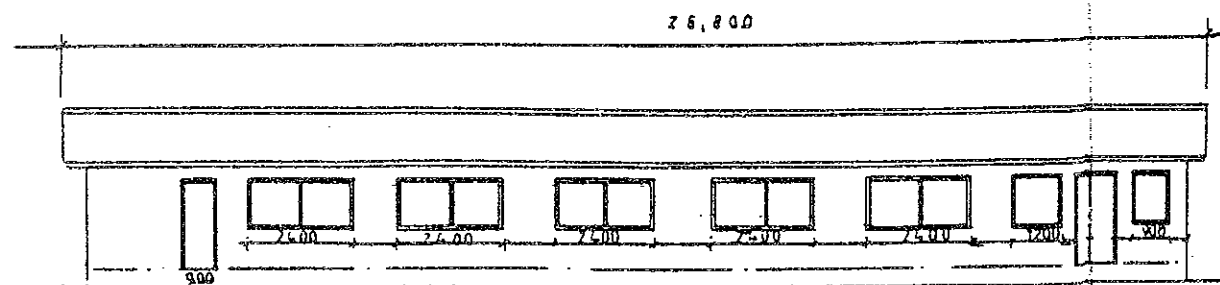




PLAN

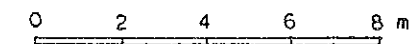


SECTION A - A



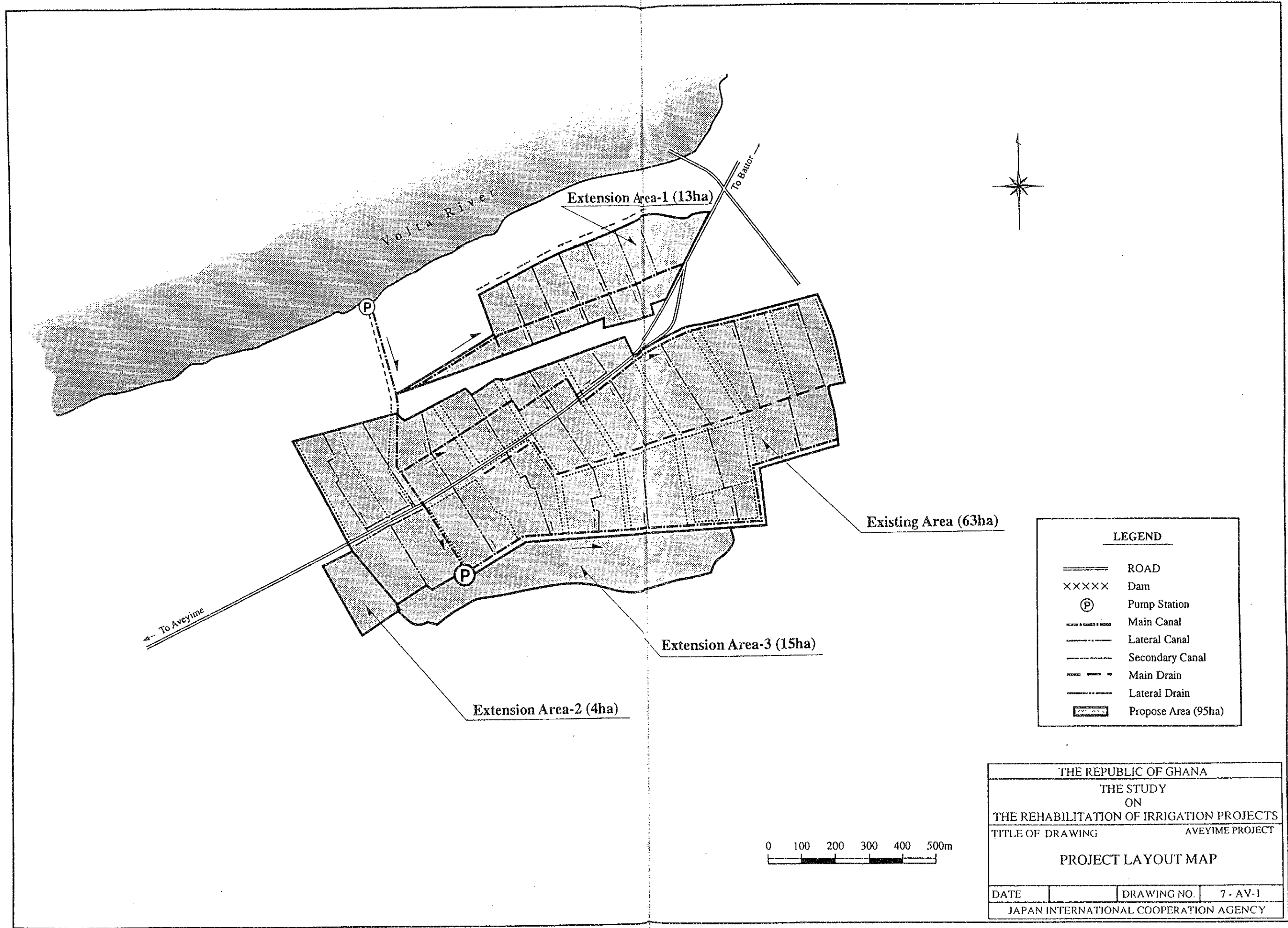
FRONT ELEVATION

SCALE 1:150



THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		ASHAIMAN PROJECT	
DORMITORY			
DATE		DRAWING NO.	6-AS-6
JAPAN INTERNATIONAL COOPERATION AGENCY			

## *II. AVEYIME PROJECT*



Volta River

Extension Area-1 (13ha)

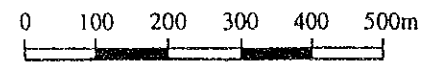
Existing Area (63ha)

Extension Area-3 (15ha)

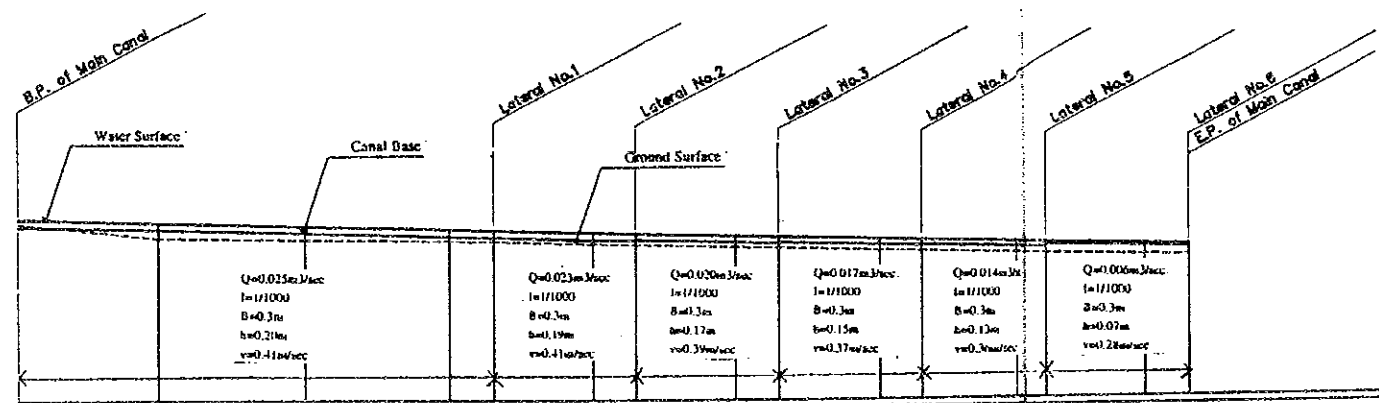
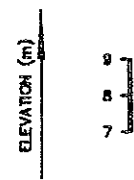
Extension Area-2 (4ha)

**LEGEND**

- ==== ROAD
- XXXXX Dam
- Ⓟ Pump Station
- Main Canal
- Lateral Canal
- Secondary Canal
- Main Drain
- Lateral Drain
- ▨ Propose Area (95ha)



THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		AVEYIME PROJECT	
<b>PROJECT LAYOUT MAP</b>			
DATE		DRAWING NO.	7 - AV-1
JAPAN INTERNATIONAL COOPERATION AGENCY			



PROPOSED	WATER SURFACE ELEVATION	6.53	6.43	6.33	6.23	6.13	6.03	5.93	5.83	5.73	5.63	5.53	5.43	5.33	5.23	
	CANAL BASE ELEVATION	6.33	6.23	6.13	6.03	5.93	5.83	5.73	5.63	5.53	5.43	5.33	5.23	5.13	5.03	
EXISTING CONDITIONS	CANAL BANK ELE.(LEFT)															
	CANAL BANK ELE.(RIGHT)															
	GROUND SURFACE ELEVATION	6.40	6.60	7.85	7.81	7.80	7.83	7.80	7.73	7.70	7.63	7.60	7.53	7.50	7.43	7.40
	REDUCED DISTANCE	0.00	100.00	200.00	300.00	350.00	400.00	450.00	500.00	550.00	600.00	650.00	700.00	750.00	800.00	850.00
	DISTANCE	0.00	100.00	200.00	300.00	350.00	400.00	450.00	500.00	550.00	600.00	650.00	700.00	750.00	800.00	850.00
	STATION NO.	Sta.0	Sta.1	Sta.2	Sta.3	Sta.4	Sta.5	Sta.6	Sta.7	Sta.8	Sta.9	Sta.10	Sta.11	Sta.12	Sta.13	Sta.14

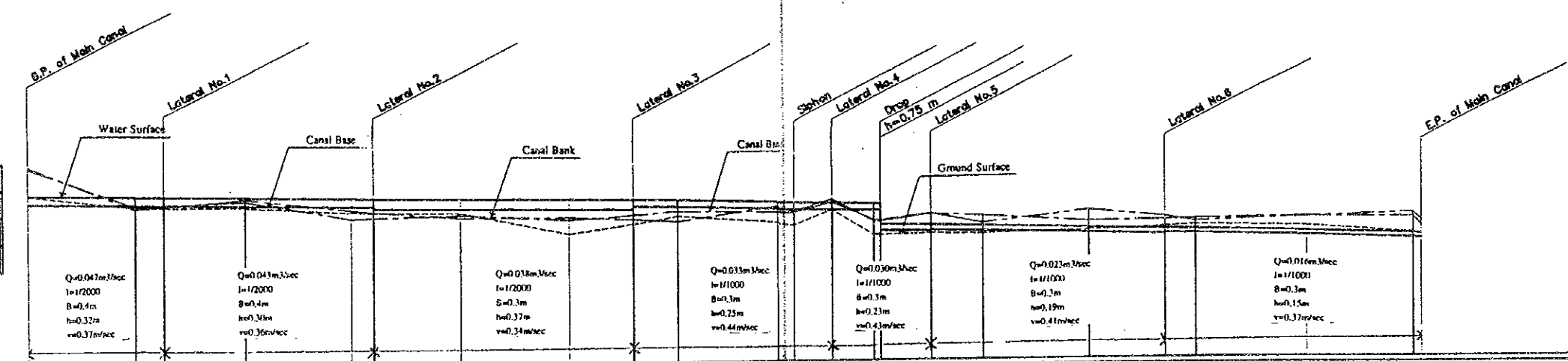
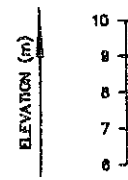
THE REPUBLIC OF GHANA

THE STUDY  
ON  
THE REHABILITATION OF IRRIGATION PROJECTS

TITLE OF DRAWING AVEYIME PROJECT

PROFILE OF  
LEFT MAIN IRRIGATION CANAL

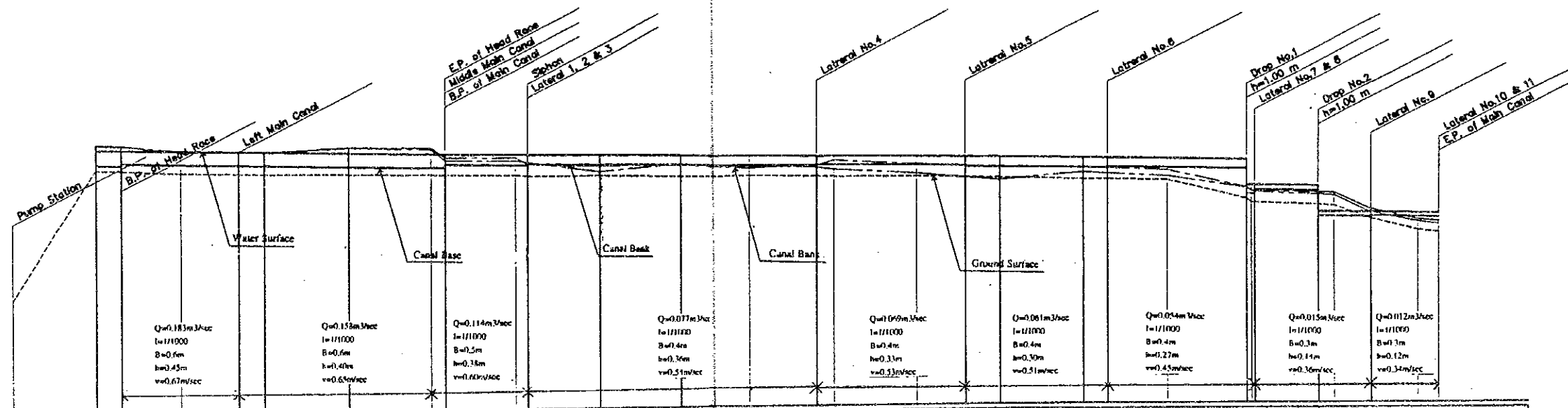
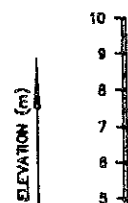
DATE	DRAWING NO.	8 - AV-2
JAPAN INTERNATIONAL COOPERATION AGENCY		



PROPOSED	WATER SURFACE ELEVATION	8.90	8.76	8.74	8.70	8.65	8.64	8.60	8.55	8.52	8.48	8.35	8.32	8.25	8.22	8.15	8.02					
	CANAL BASE ELEVATION	8.48	8.43	8.42	8.40	8.35	8.27	8.23	8.18	8.15	8.23	8.13	8.07	8.03	8.04	7.98	7.82					
EXISTING CONDITIONS	CANAL BANK ELE.(LEFT)	8.85	8.28	8.38	8.64	8.21	8.13	7.82	7.28	7.78	7.70	8.24	8.48	7.82	7.82	7.56	7.85					
	CANAL BANK ELE.(RIGHT)	8.79	8.38	8.42	8.58	7.98	7.83	8.01	7.78	7.94	8.07	8.11	8.33	7.88	7.88	7.82	7.85					
	GROUND SURFACE ELEVATION	8.78	8.34	8.34	8.33	8.13	8.12	8.08	7.29	7.62	7.88	7.84	8.06	7.13	7.13	7.14	7.33					
REDUCED DISTANCE	0.00	100.00	128.00	200.00	300.00	320.00	400.00	500.00	558.00	600.00	700.00	725.00	781.00	800.00	808.00	852.00	900.00	1000.00	1071.00	1100.00	1200.00	1300.00
DISTANCE	0.00	100.00	28.00	74.00	100.00	20.00	80.00	100.00	56.00	41.00	100.00	25.00	38.00	38.00	8.00	46.00	48.00	100.00	71.00	28.00	100.00	100.00
STATION NO.	Sta. 0	Sta. 1	Sta. 2	Sta. 3	Sta. 4	Sta. 5	Sta. 6	Sta. 7	Sta. 8	Sta. 9	Sta. 10	Sta. 11	Sta. 12	Sta. 13								

THE REPUBLIC OF GHANA  
 THE STUDY  
 ON  
 THE REHABILITATION OF IRRIGATION PROJECTS  
 TITLE OF DRAWING AVEYIME PROJECT  
 PROFILE OF  
 MIDDLE MAIN IRRIGATION CANAL

DATE	DRAWING NO.	9 - AV-3
JAPAN INTERNATIONAL COOPERATION AGENCY		



STATION NO.	PROPOSED		EXISTING CONDITIONS			REDUCED DISTANCE	DISTANCE
	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	CANAL BANK ELE. (LEFT)	CANAL BANK ELE. (RIGHT)	GROUND SURFACE ELEVATION		
No. 0	8.79	8.19	8.98	8.98	8.85	0.00	0.00
No. 1	8.78	8.18	8.98	8.98	8.86	100.00	100.00
No. 2	8.74	8.21	8.76	8.76	8.87	200.00	70.00
No. 3	8.71	8.19	8.71	8.69	8.84	270.00	70.00
No. 4	8.68	8.18	8.68	8.68	8.82	300.00	30.00
No. 5	8.64	8.15	8.63	8.66	8.81	400.00	100.00
No. 6	8.58	8.02	8.80	8.78	8.78	500.00	100.00
No. 7	8.55	8.01	8.80	8.79	8.77	518.00	18.00
No. 8	8.51	8.01	8.82	8.80	8.73	600.00	84.00
No. 9	8.48	8.00	8.84	8.84	8.68	700.00	88.00
No. 10	8.44	8.07	8.10	8.10	8.82	800.00	100.00
No. 11	8.39	8.02	8.90	8.90	8.82	900.00	100.00
No. 12	8.34	8.00	8.91	8.99	8.86	978.00	78.00
No. 13	8.28	8.00	8.82	8.17	8.84	1000.00	21.00
No. 14	8.24	8.05	8.84	8.00	8.81	1100.00	100.00
No. 15	8.19	8.00	8.80	8.90	8.47	1158.00	58.00
No. 16	8.14	8.00	8.82	8.82	8.44	1200.00	41.00
No. 17	8.09	8.00	8.77	8.68	8.36	1300.00	100.00
No. 18	8.08	8.00	8.70	8.68	8.34	1328.00	28.00
No. 19	8.03	8.00	8.68	8.68	8.30	1400.00	71.00
No. 20	8.00	8.00	8.68	8.68	8.00	1484.00	84.00
No. 21	7.99	8.00	8.68	8.68	7.58	1500.00	16.00
No. 22	7.98	8.00	8.68	8.68	7.42	1504.00	4.00
No. 23	7.94	8.00	8.68	8.68	7.31	1500.00	78.00
No. 24	7.90	8.00	8.68	8.68	7.28	1600.00	30.00
No. 25	7.87	8.00	8.68	8.68	7.15	1644.00	44.00
No. 26	7.85	8.00	8.68	8.68	6.78	1700.00	56.00
No. 27	7.82	8.00	8.68	8.68	6.30	1724.00	24.00
No. 28	7.82	8.00	8.68	8.68	6.22		

THE REPUBLIC OF GHANA

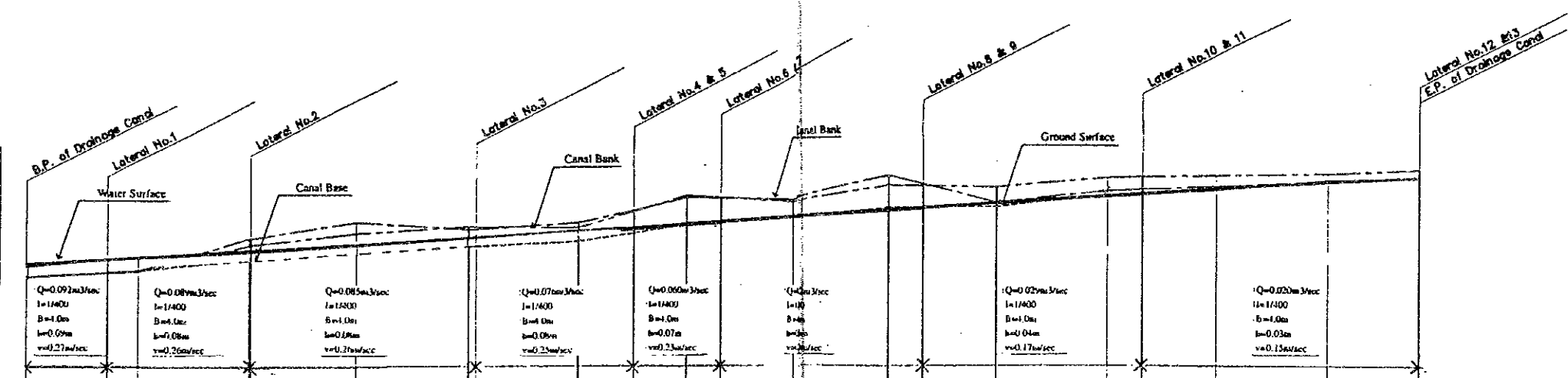
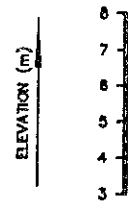
THE STUDY  
ON  
THE REHABILITATION OF IRRIGATION PROJECTS

TITLE OF DRAWING AVEYIME PROJECT

PROFILE OF HEAD RACE AND  
RIGHT MAIN IRRIGATION CANAL

DATE	DRAWING NO.	10 - AV-4
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JAPAN INTERNATIONAL COOPERATION AGENCY

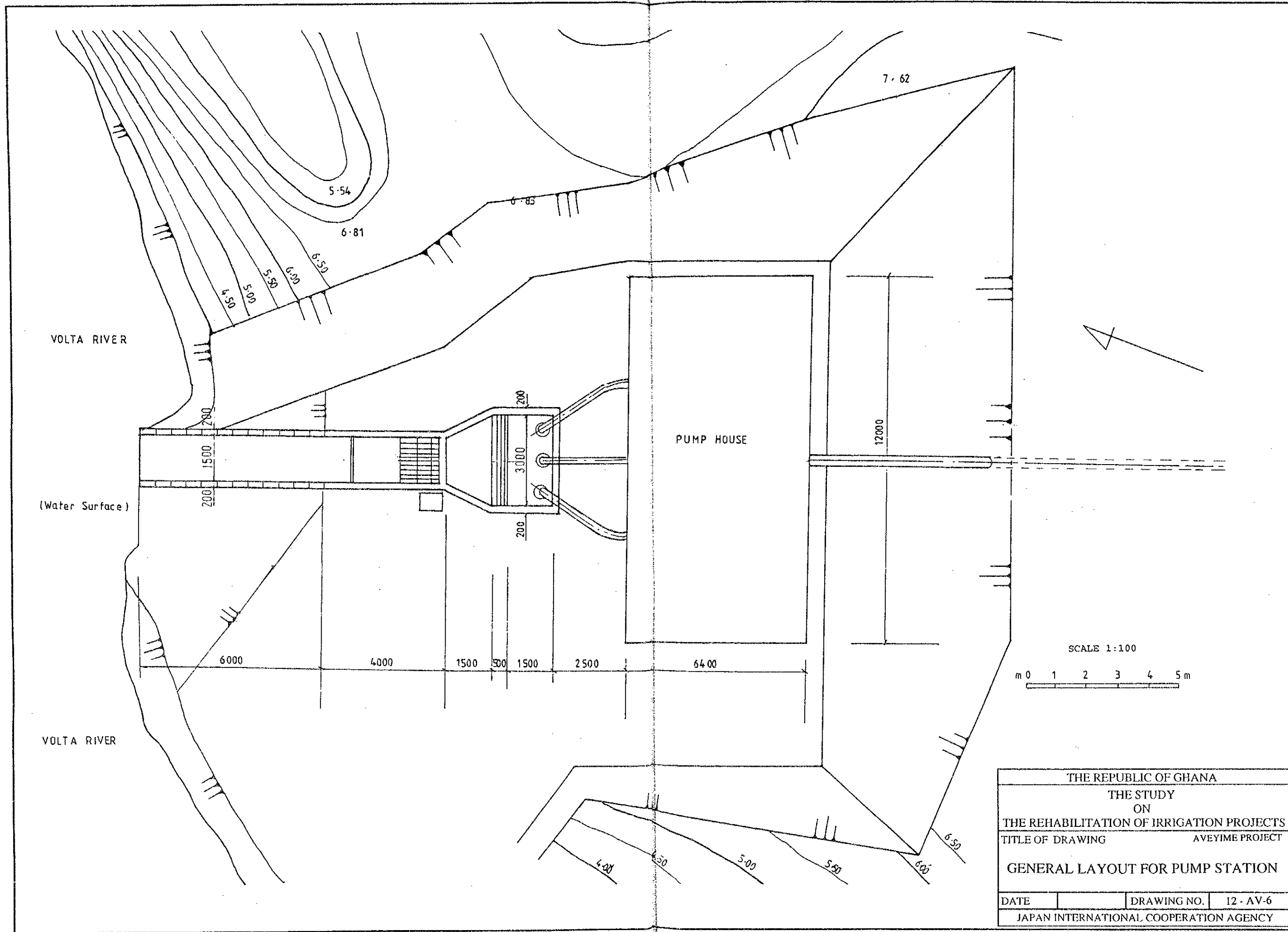


PROPOSED	WATER SURFACE ELEVATION	3.00	3.88	4.05	4.20	4.35	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05
	CANAL BASE ELEVATION																							
EXISTING CONDITIONS	CANAL BANK ELE.(LEFT)	3.33	3.49	3.55	4.44	4.48	4.63	4.78	4.93	5.08	5.23	5.38	5.53	5.68	5.83	5.98	6.13	6.28	6.43	6.58	6.73	6.88	7.03	7.18
	CANAL BANK ELE.(RIGHT)	3.33	3.51	3.66	4.72	4.72	5.34	5.78	6.23	6.70	7.16	7.63	8.10	8.57	9.04	9.51	9.98	10.45	10.92	11.39	11.86	12.33	12.80	13.27
	GROUND SURFACE ELEVATION	3.32	3.60	3.67	4.02	4.03	4.20	4.38	4.67	4.97	5.26	5.55	5.84	6.13	6.42	6.71	7.00	7.29	7.58	7.87	8.16	8.45	8.74	9.03
REDUCED DISTANCE	0.00	72.00	102.00	200.00	202.00	300.00	400.00	500.00	550.00	600.00	632.00	700.00	800.00	832.00	900.00	1000.00	1032.00	1100.00	1200.00	1262.00				
DISTANCE	0.00	72.00	28.00	100.00	2.00	98.00	100.00	93.00	50.00	50.00	32.00	32.00	100.00	32.00	68.00	100.00	32.00	88.00	100.00	62.00				
STATION NO.		Sta.0	Sta.1	Sta.2	Sta.3	Sta.4	Sta.5	Sta.6	Sta.7	Sta.8	Sta.9	Sta.10	Sta.11	Sta.12										

THE REPUBLIC OF GHANA  
 THE STUDY  
 ON  
 THE REHABILITATION OF IRRIGATION PROJECTS  
 TITLE OF DRAWING AVEYIME PROJECT

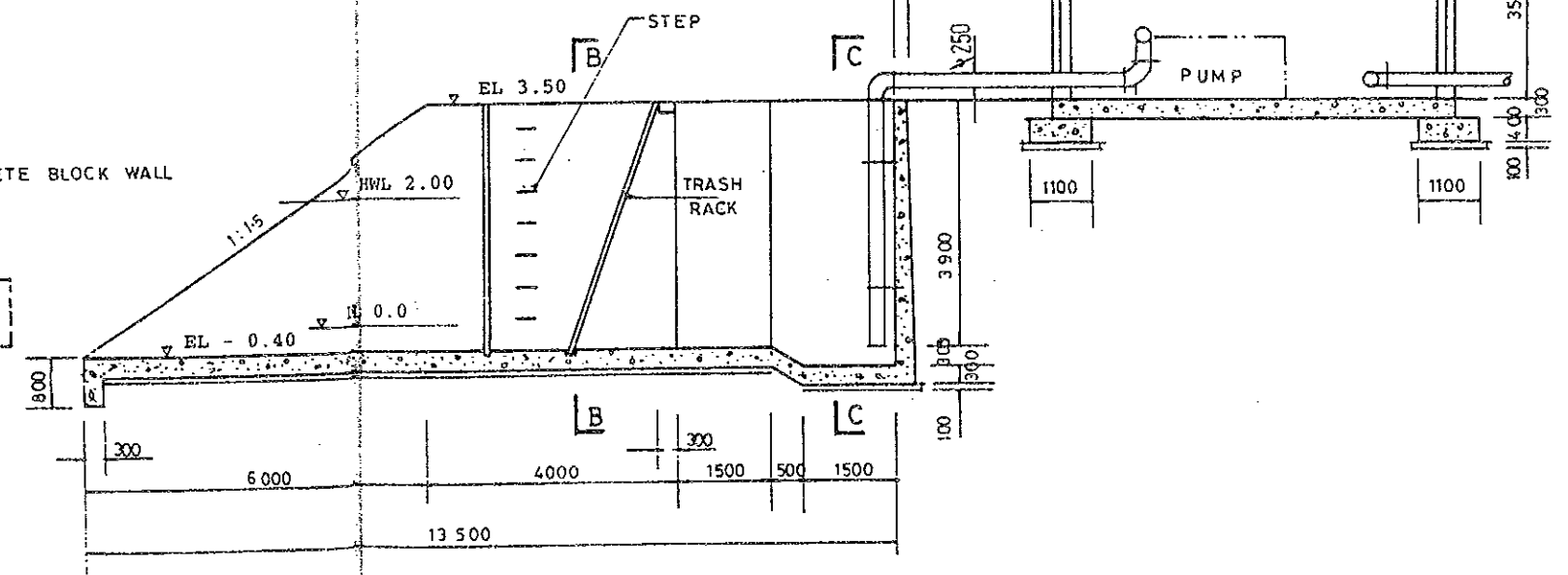
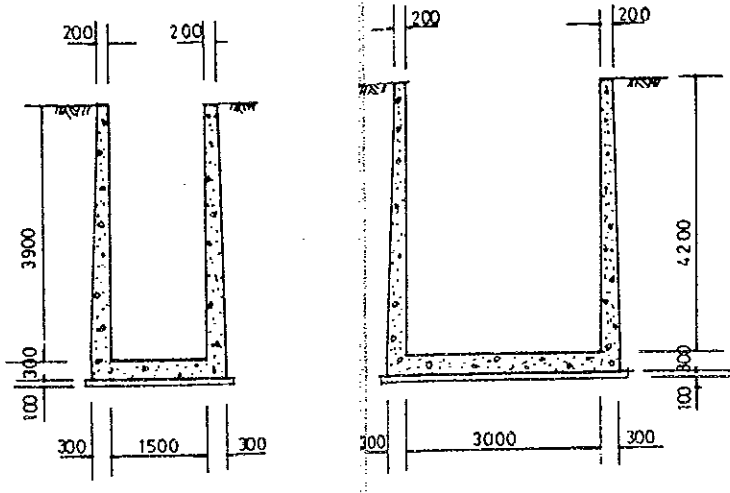
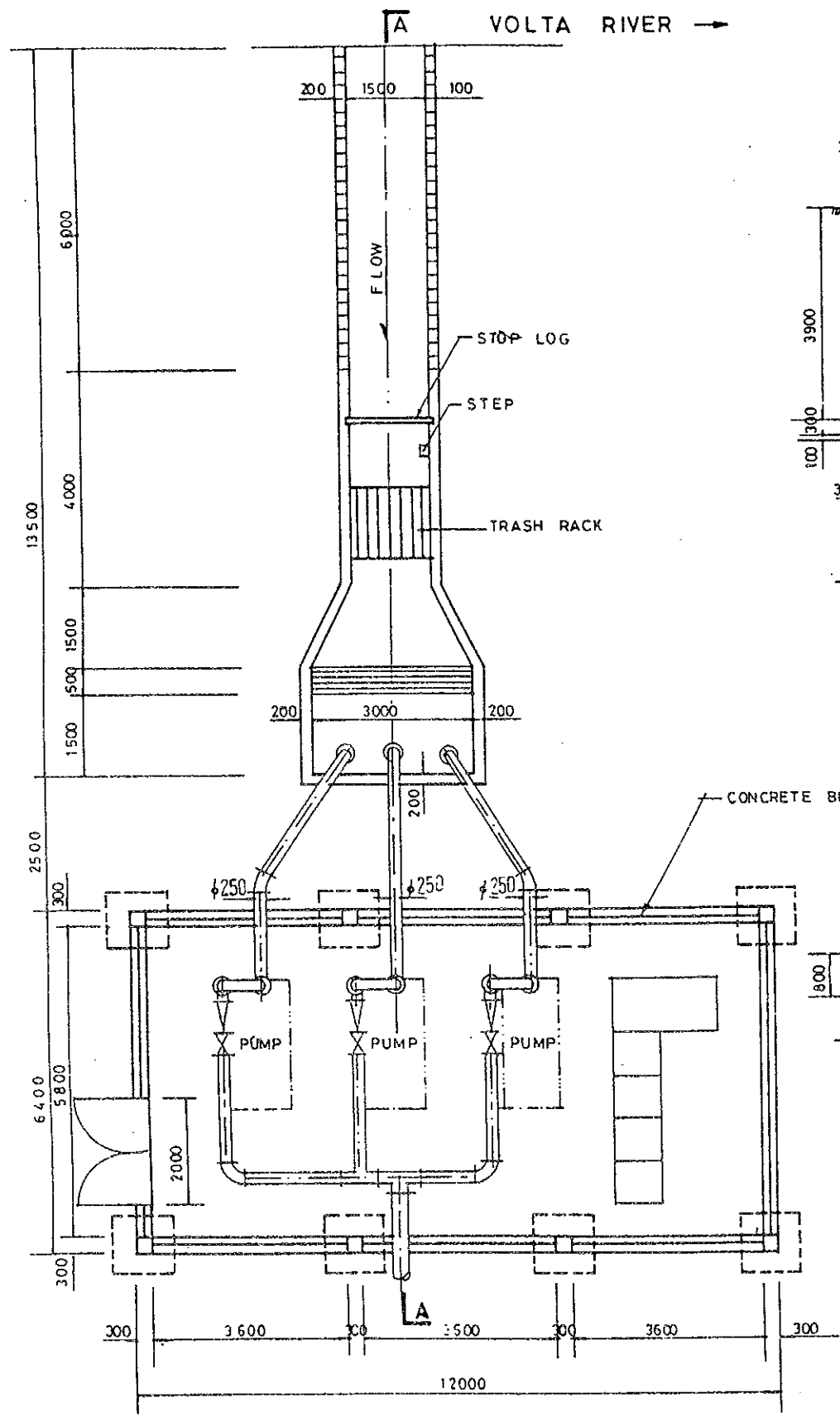
PROFILE OF MAIN DRAIN

DATE	DRAWING NO.	11 - AV-5
JAPAN INTERNATIONAL COOPERATION AGENCY		



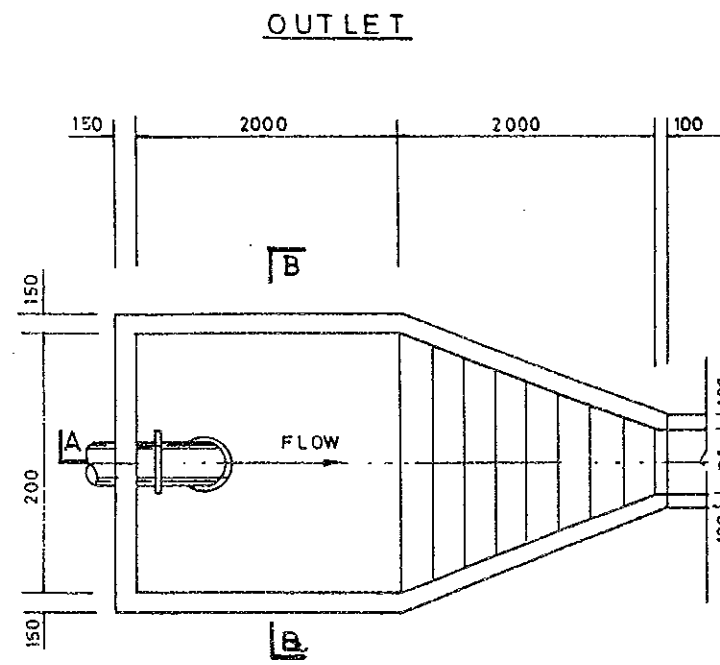
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		AVEYIME PROJECT	
GENERAL LAYOUT FOR PUMP STATION			
DATE	DRAWING NO.	12 - AV-6	
JAPAN INTERNATIONAL COOPERATION AGENCY			



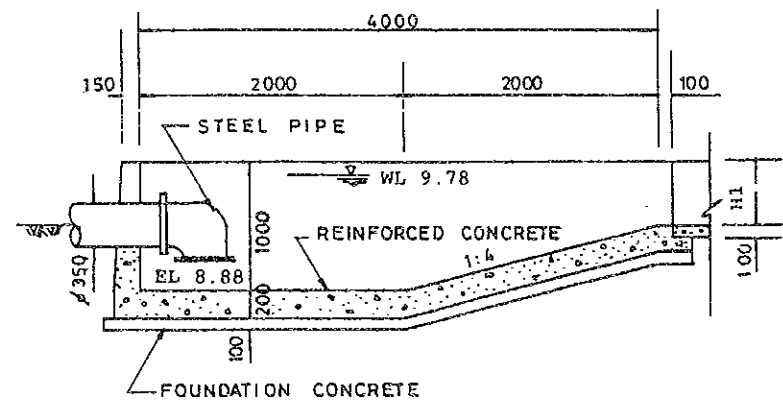


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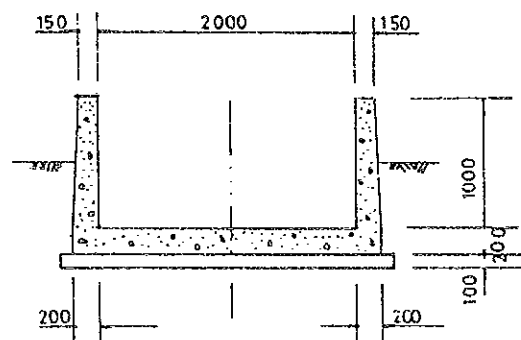
THE REPUBLIC OF GHANA		
THE STUDY ON		
THE REHABILITATION OF IRRIGATION PROJECTS		
TITLE OF DRAWING		AVEYIME PROJECT
PUMP STATION		
DATE	DRAWING NO.	13 - AV-7
JAPAN INTERNATIONAL COOPERATION AGENCY		



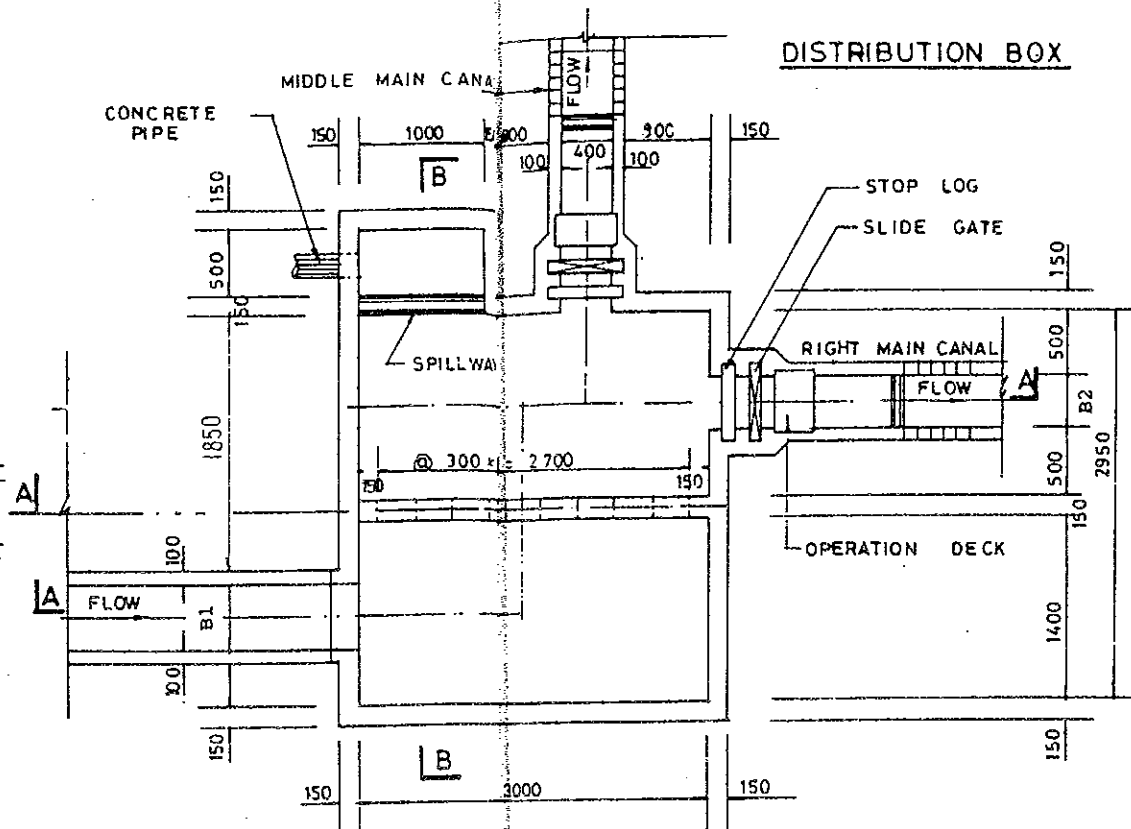
PLAN



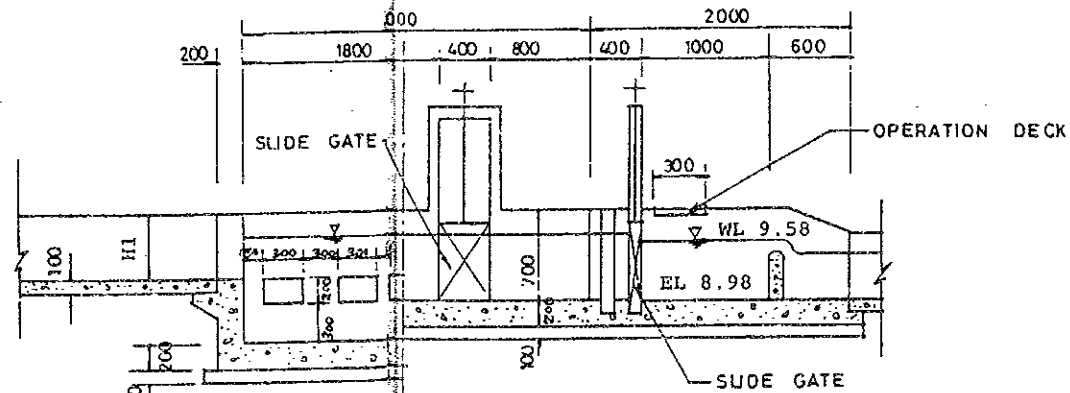
SECTION A-A



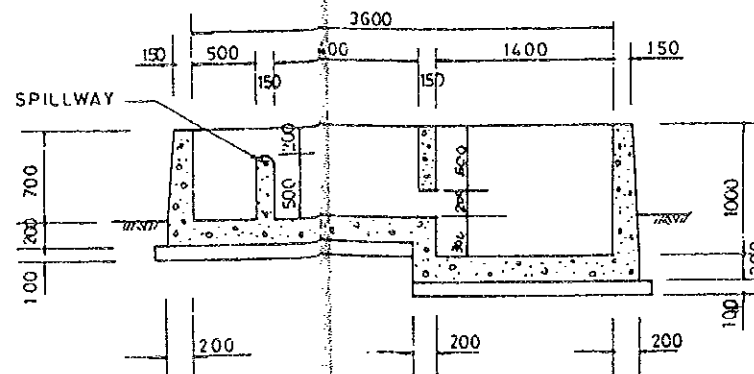
SECTION B-B



PLAN

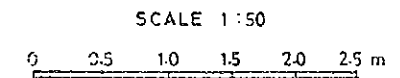


SECTION A-A

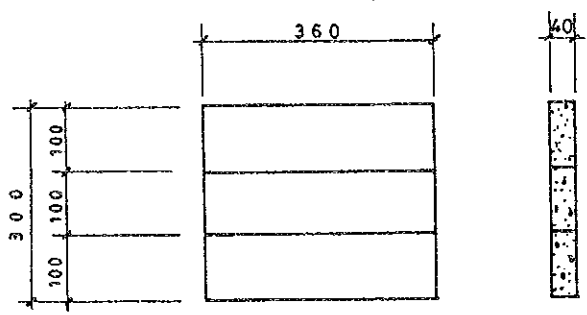
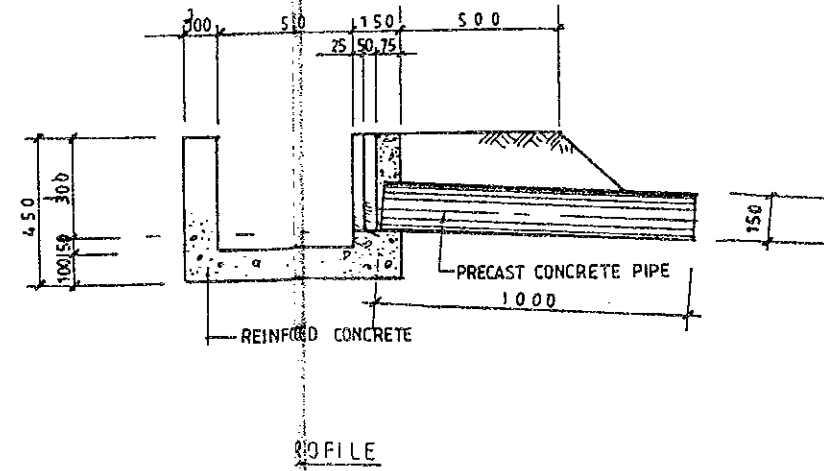
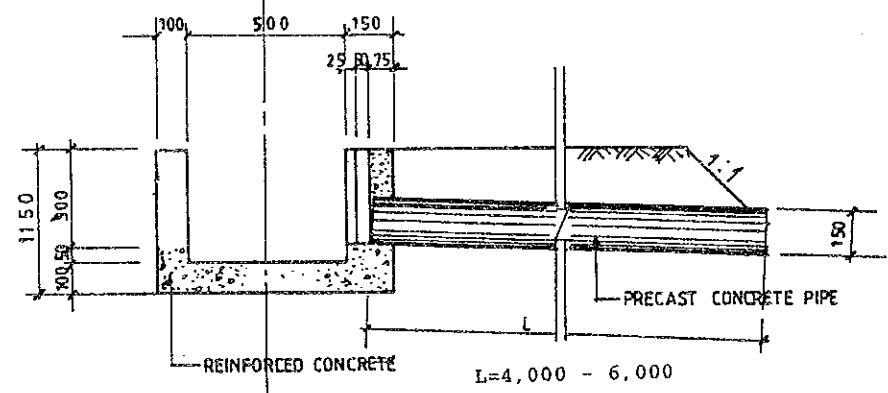
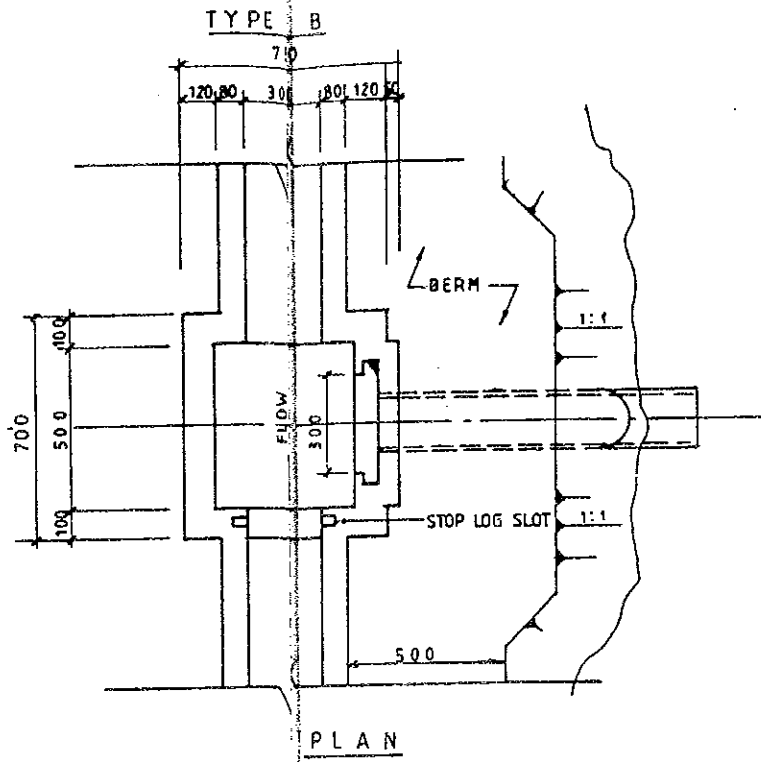
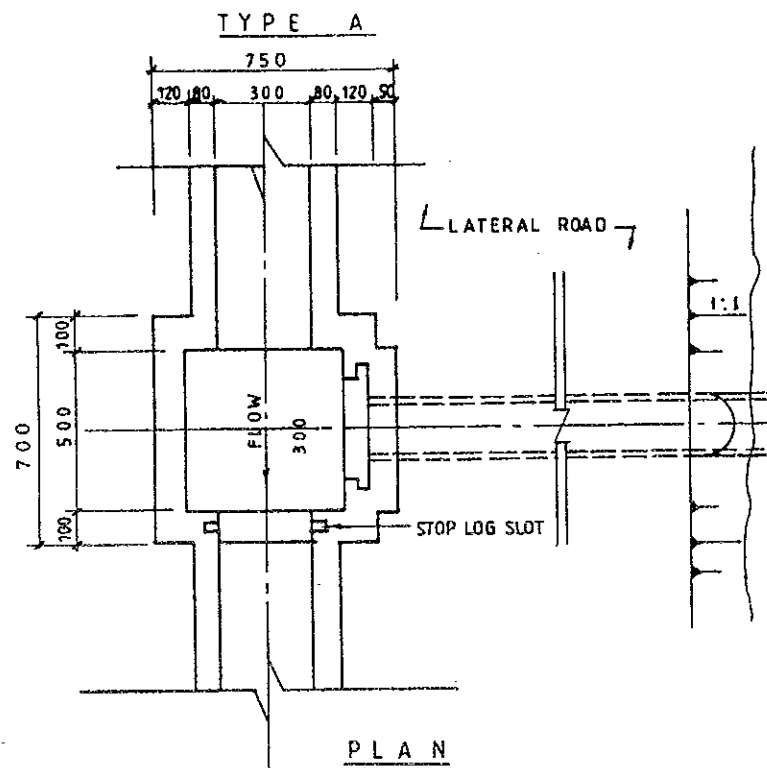


SECTION B-B

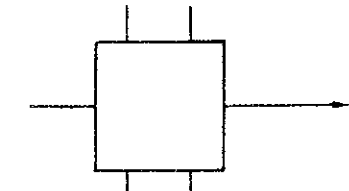
OUTLET & DISTRIBUTION BOX	
B1	600
B2	500
H1	700



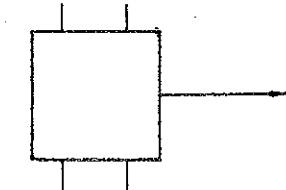
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		AVEYIME PROJECT	
OUTLET AND DISTRIBUTION BOX FOR MAIN IRRIGATION CANAL			
DATE		DRAWING NO.	14 - AV-8
JAPAN INTERNATIONAL COOPERATION AGENCY			



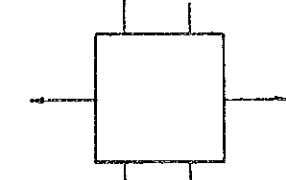
**TYPE OF FIELD OUTLET**



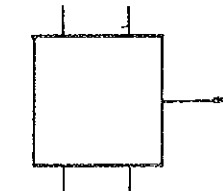
TYPE A 1



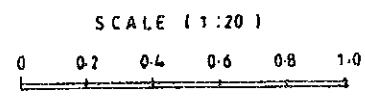
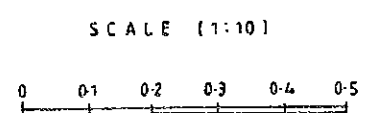
TYPE A 2



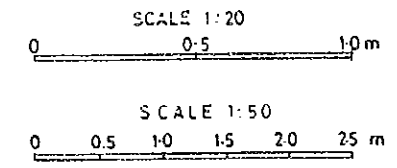
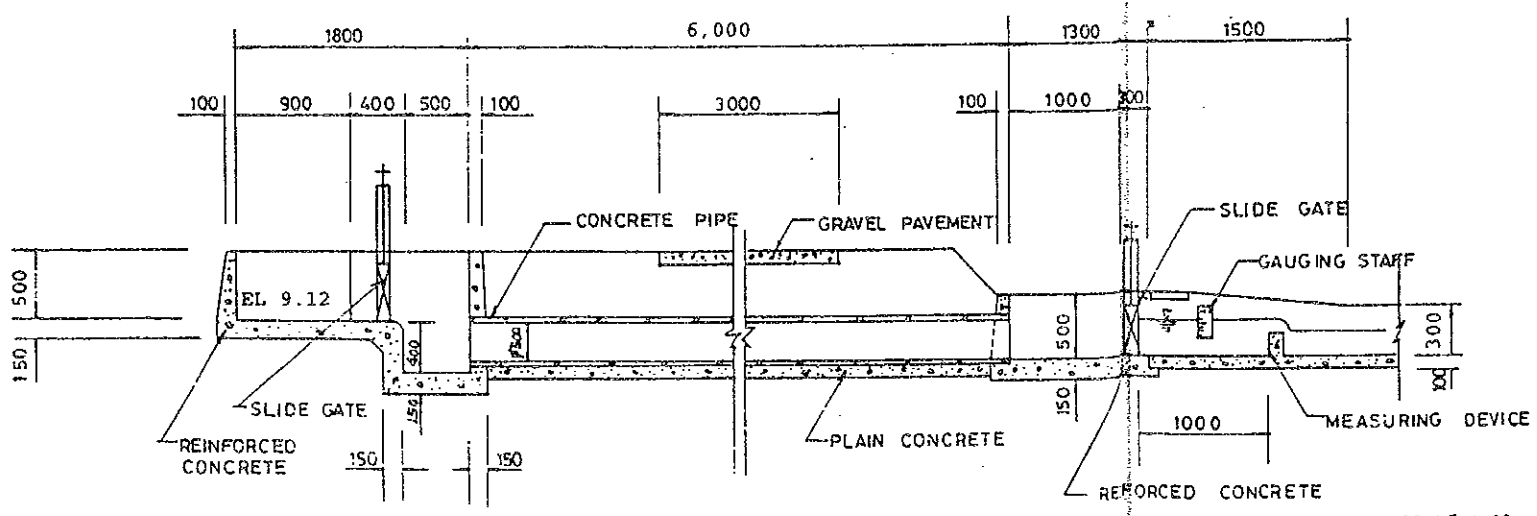
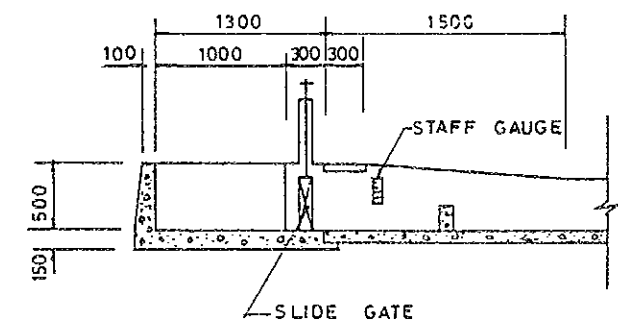
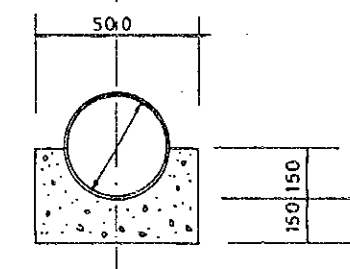
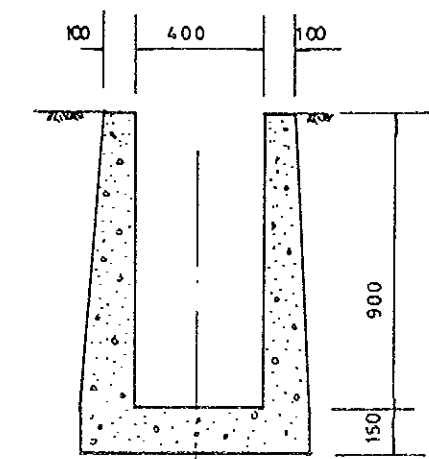
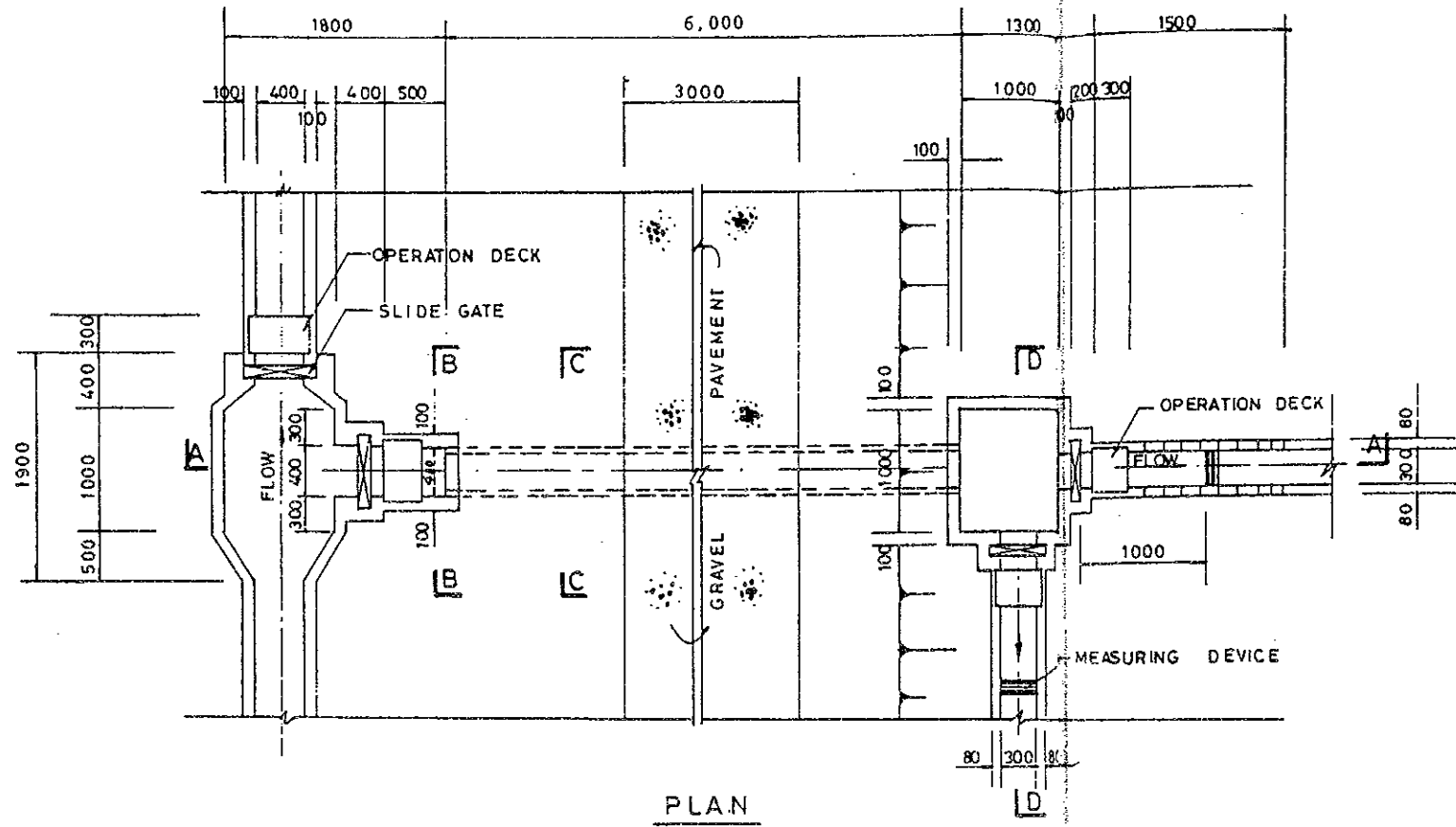
TYPE B-1



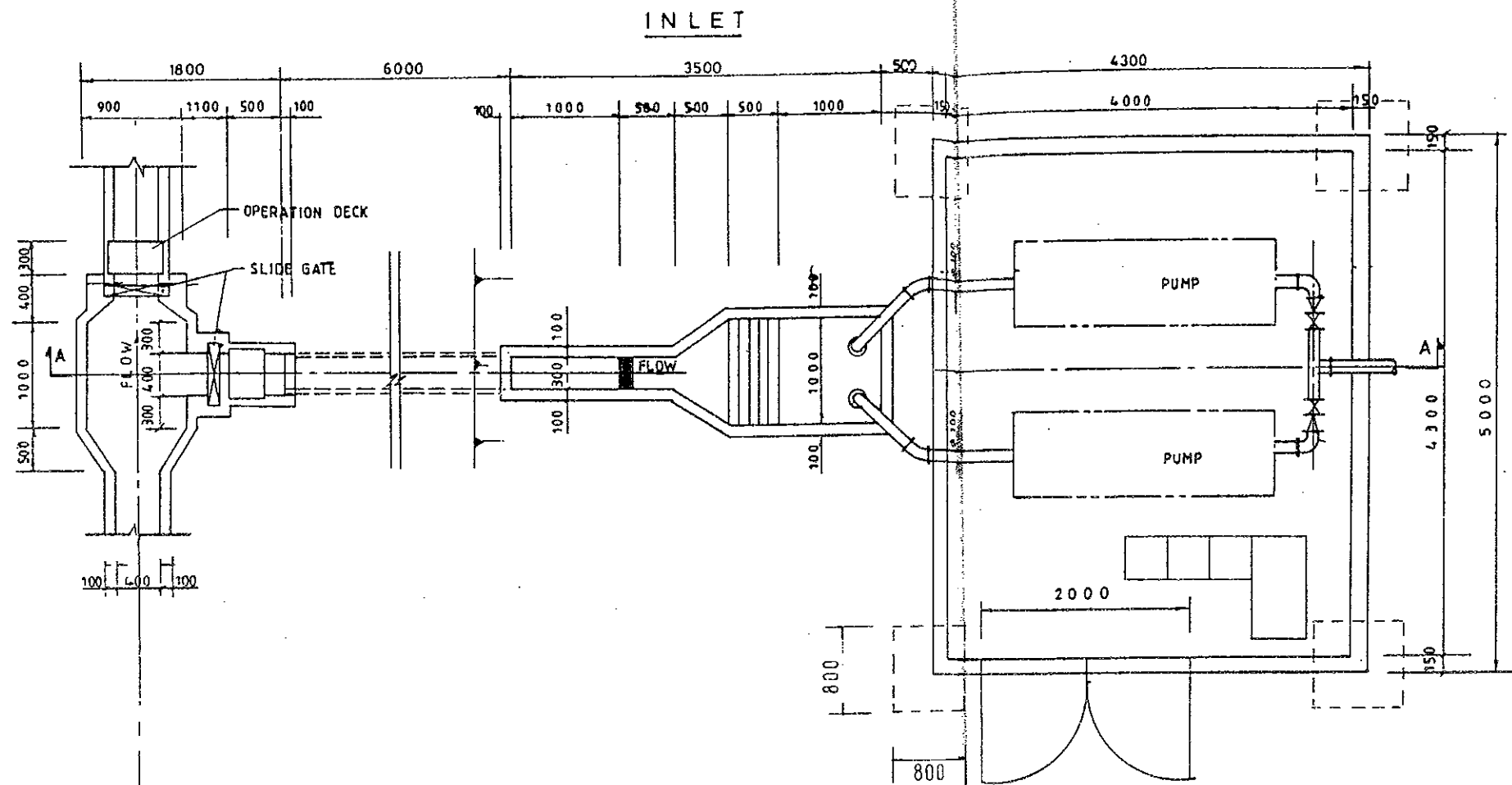
TYPE B 2



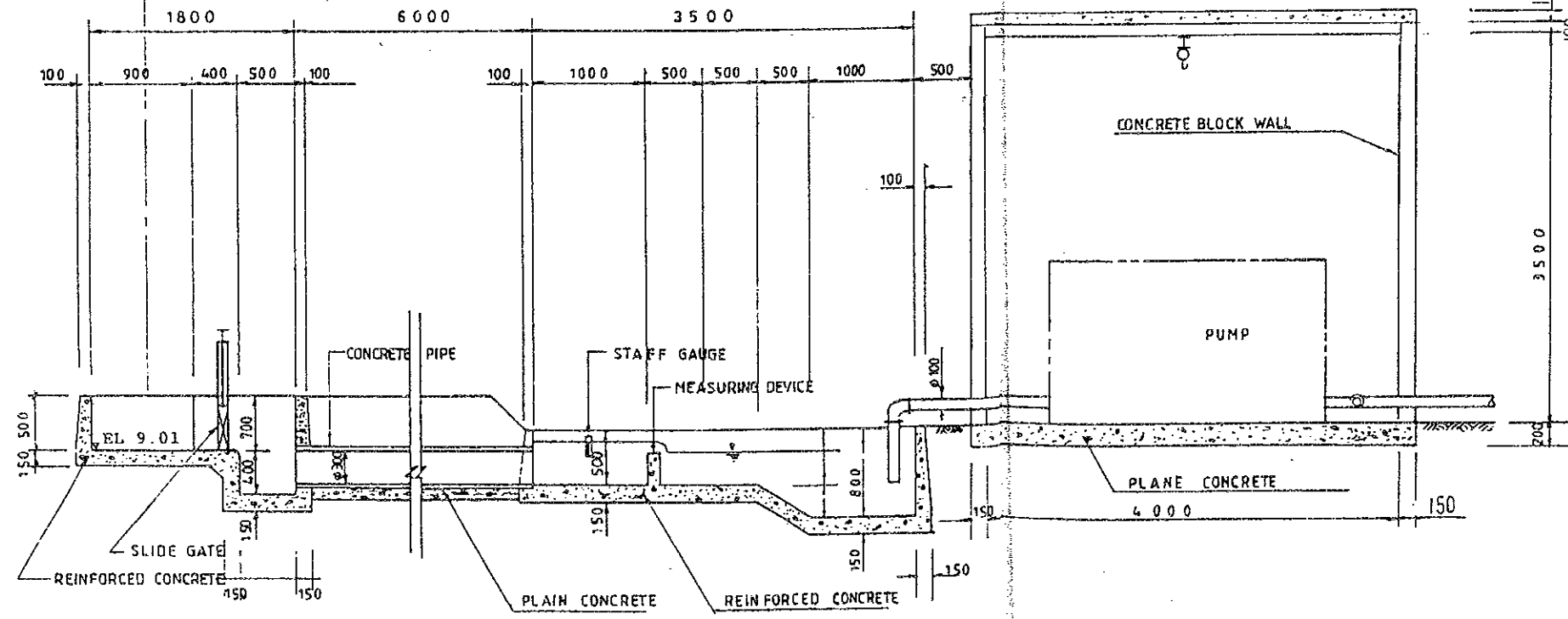
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		AVEYIME PROJECT	
<b>FIELD OUTLET</b>			
DATE		DRAWING NO.	15 - AV-9
JAPAN INTERNATIONAL COOPERATION AGENCY			



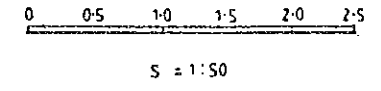
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		AVEYIME PROJECT	
TURNOUT FOR NO.1 & NO.2 LATERAL CANALS			
DATE		DRAWING NO.	16 - AV-10
JAPAN INTERNATIONAL COOPERATION AGENCY			



PLAN

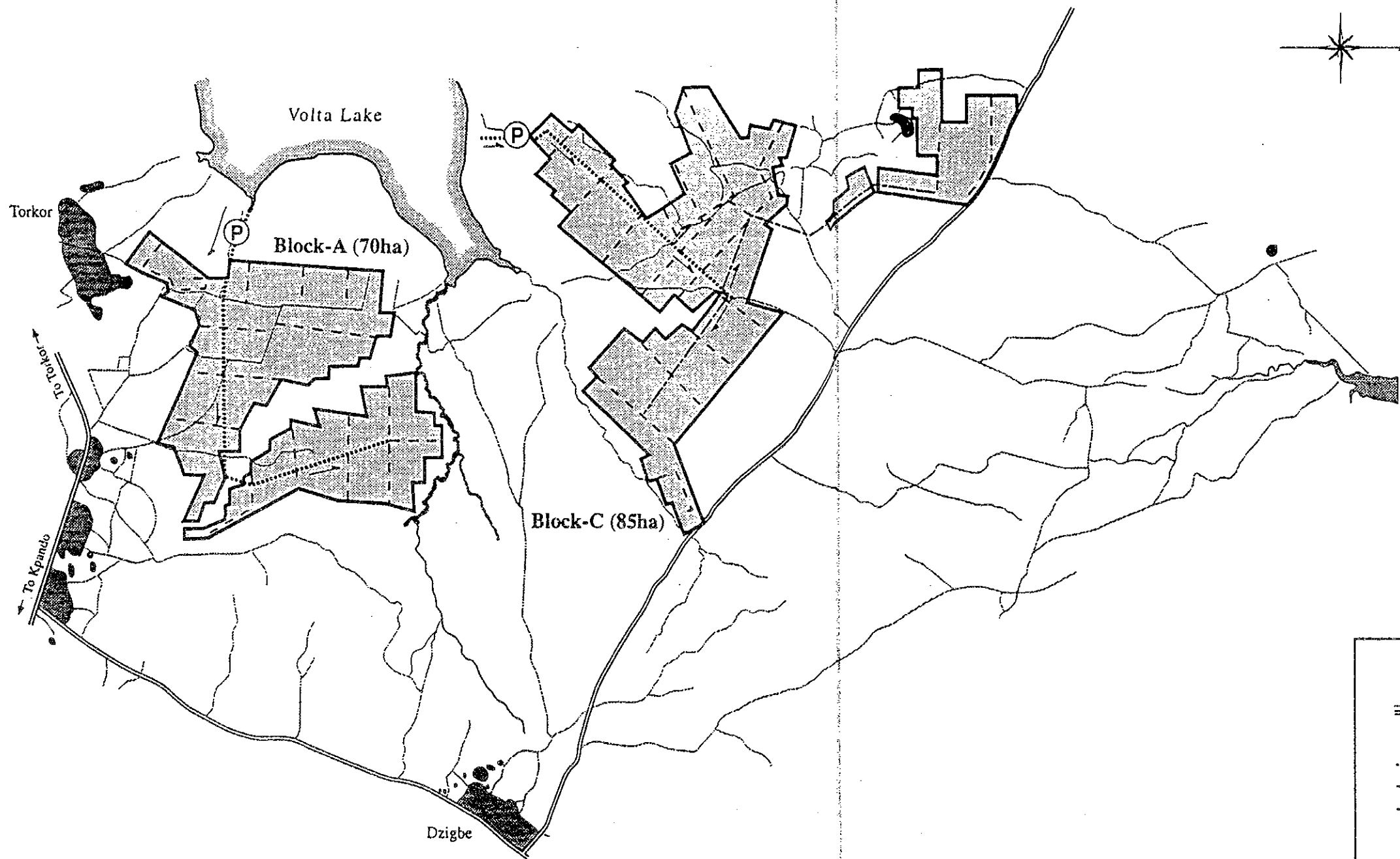


SECTION A - A

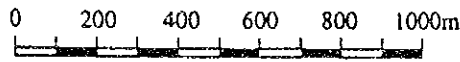


THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		AVEYIME PROJECT	
<b>PUMP STATION AND INLET FOR EXTENSION AREA-3</b>			
DATE		DRAWING NO.	17 - AV-11
JAPAN INTERNATIONAL COOPERATION AGENCY			

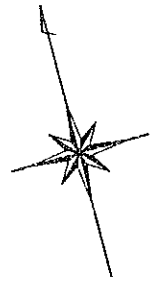
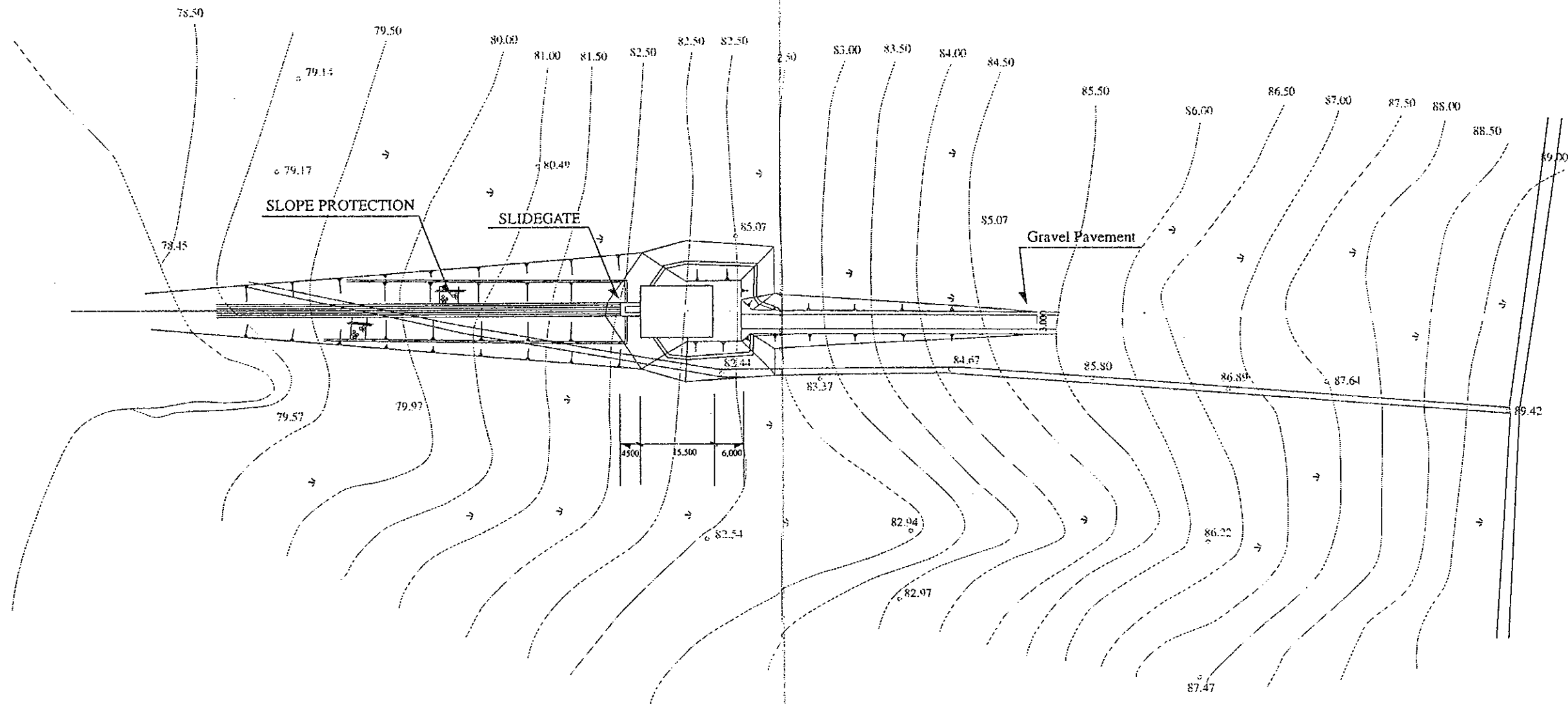
### *III. KPANDO-TORKOR PROJECT*



LEGEND	
	ROAD
	Pump Station
	Main Pipe Line
	Secondary Pipe Line
	Lateral Pipe Line
	Village
	Propose Area (155ha)

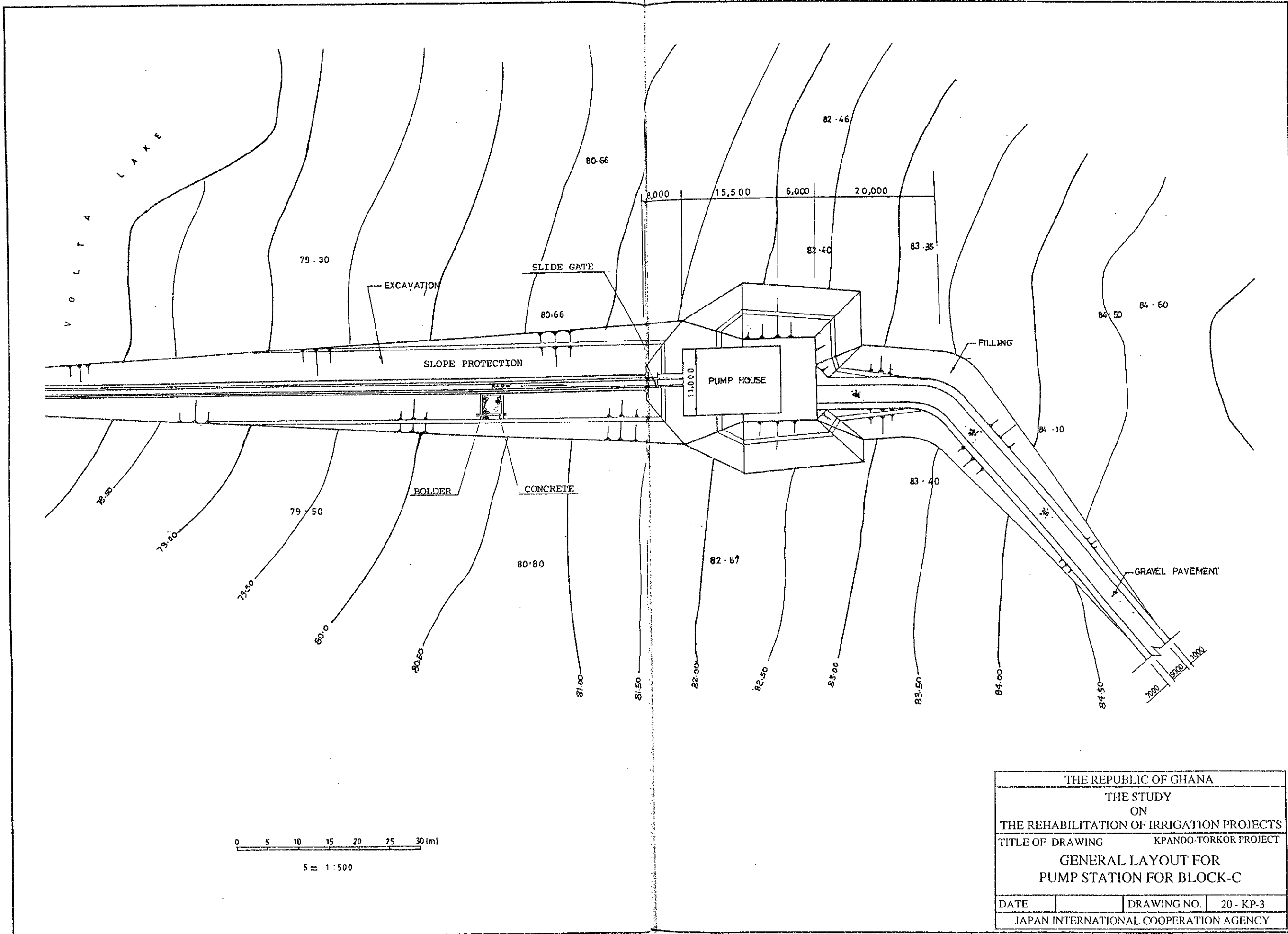


THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		KPANDO-TORKOR PROJECT	
<b>PROJECT LAYOUT MAP</b>			
DATE		DRAWING NO.	18 - KP-1
JAPAN INTERNATIONAL COOPERATION AGENCY			



THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		KPANDO-TORKOR PROJECT	
GENERAL LAYOUT FOR PUMP STATION FOR BLOCK-A			
DATE		DRAWING NO.	19 - KP-2
JAPAN INTERNATIONAL COOPERATION AGENCY			

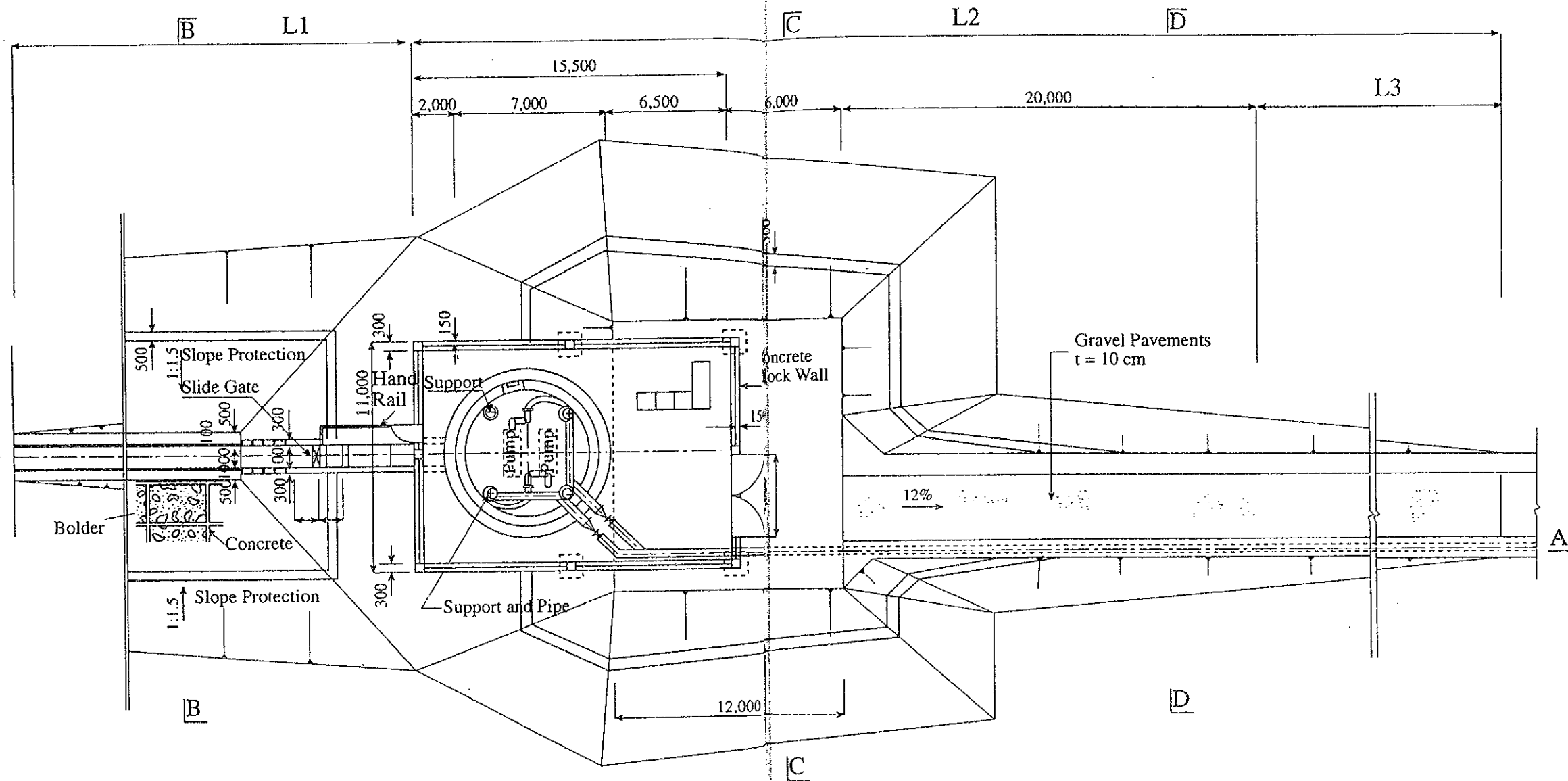




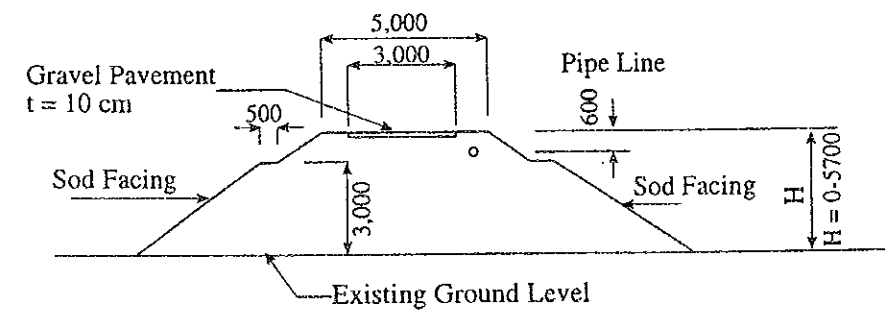
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 S = 1 : 500

THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		KPANDO-TORKOR PROJECT	
GENERAL LAYOUT FOR PUMP STATION FOR BLOCK-C			
DATE		DRAWING NO.	20 - KP-3
JAPAN INTERNATIONAL COOPERATION AGENCY			

VOLTA LAKE

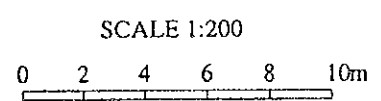


PLAN

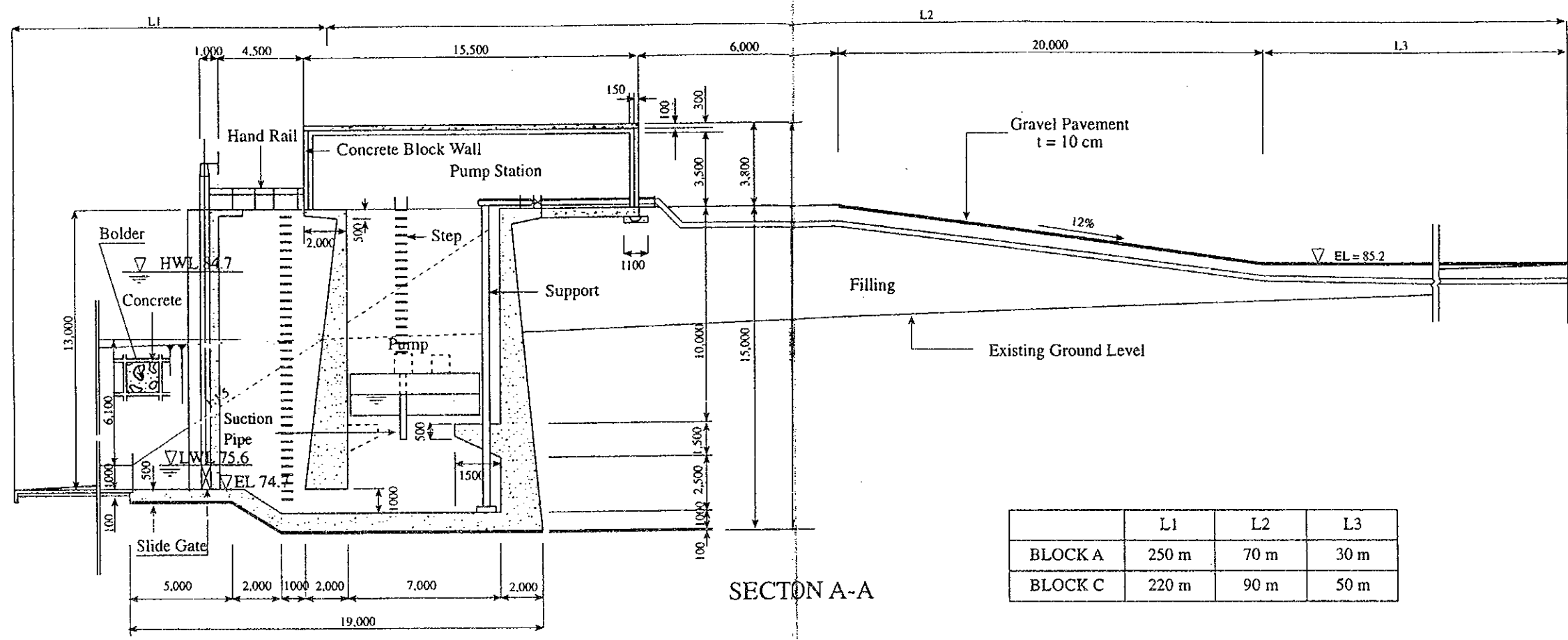


SECTION D-D

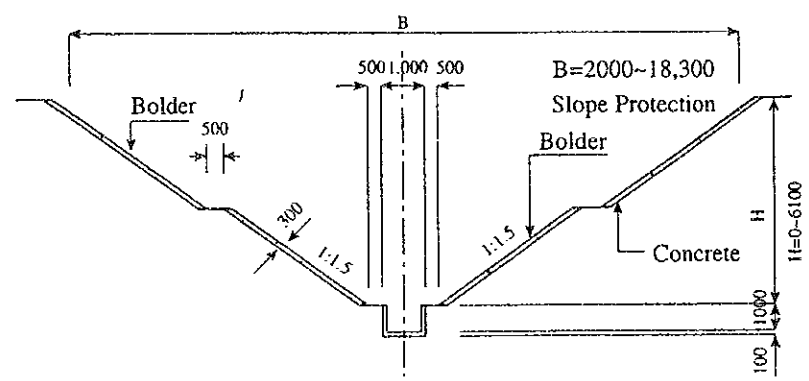
	L1	L2	L3
BLOCK A	250 m	70 m	30 m
BLOCK C	220 m	90 m	50 m



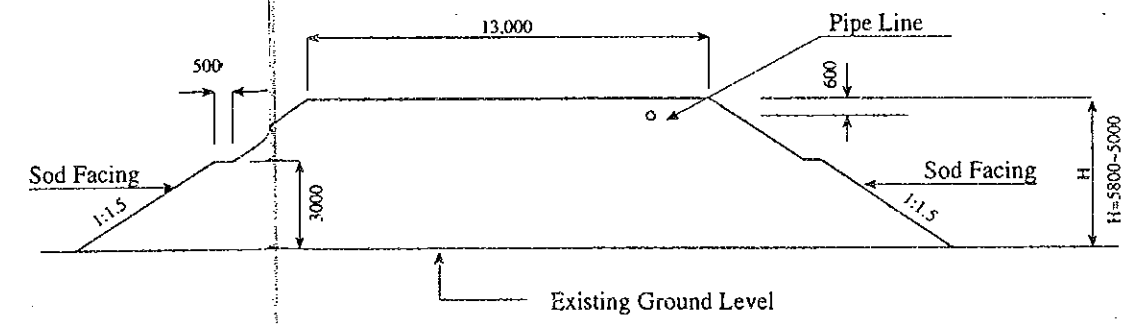
THE REPUBLIC OF GHANA			
THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		KPANDO-TORKOR PROJECT	
PUMP STATION FOR BLOCK-A & -C (1/2)			
DATE		DRAWING NO.	21 - KP-4
JAPAN INTERNATIONAL COOPERATION AGENCY			



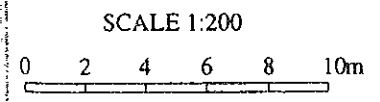
SECTION A-A



SECTION B-B

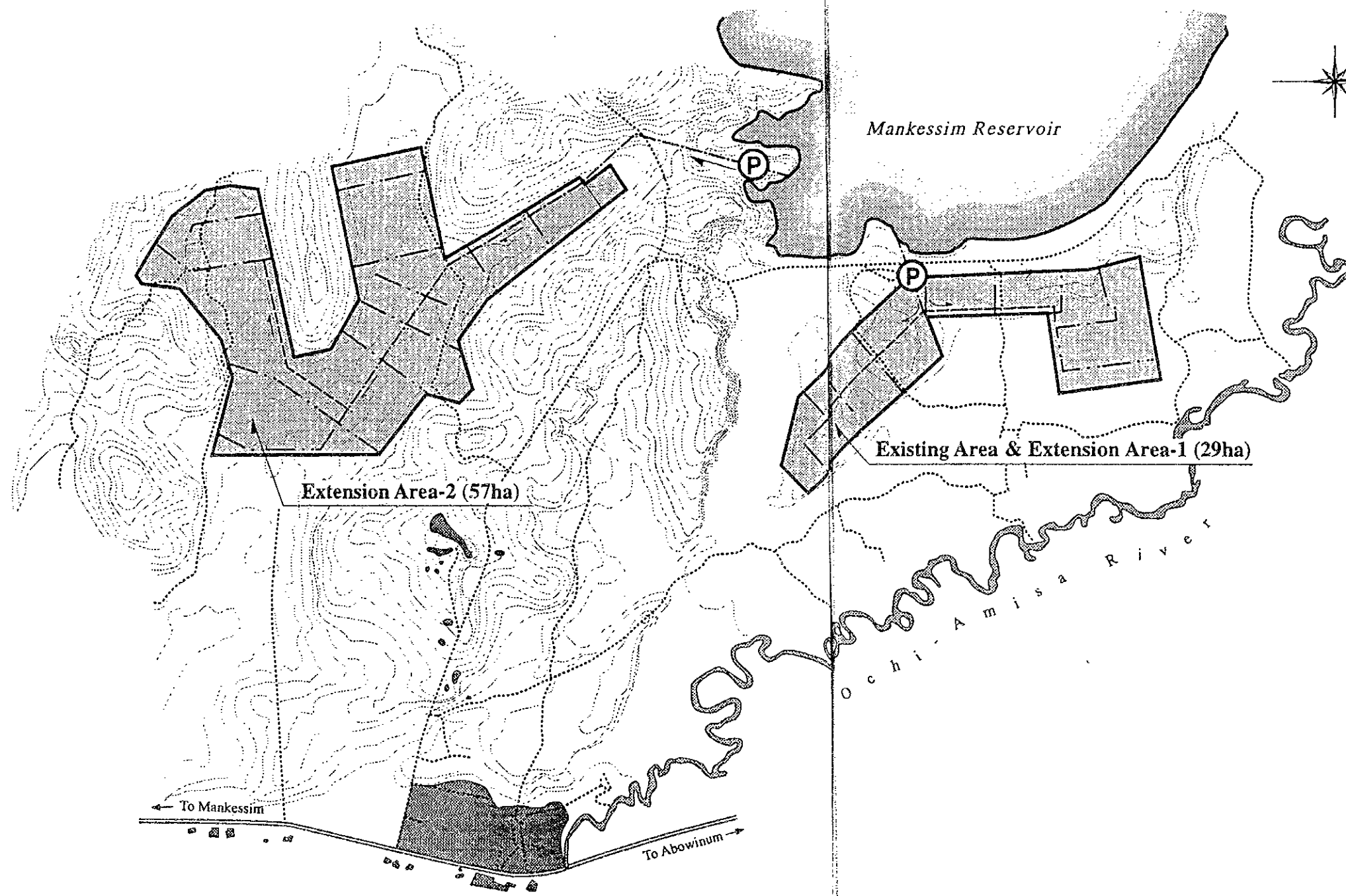


SECTION C-C

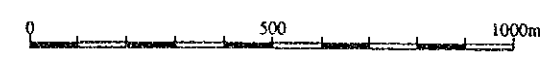


THE REPUBLIC OF GHANA			
THE STUDY			
ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		KPANDO-TORKOR PROJECT	
PUMP STATION FOR BLOCK-A & -C (2/2)			
DATE	DRAWING NO.	22 - KP-5	
JAPAN INTERNATIONAL COOPERATION AGENCY			

*IV. MANKESSIM PROJECT*

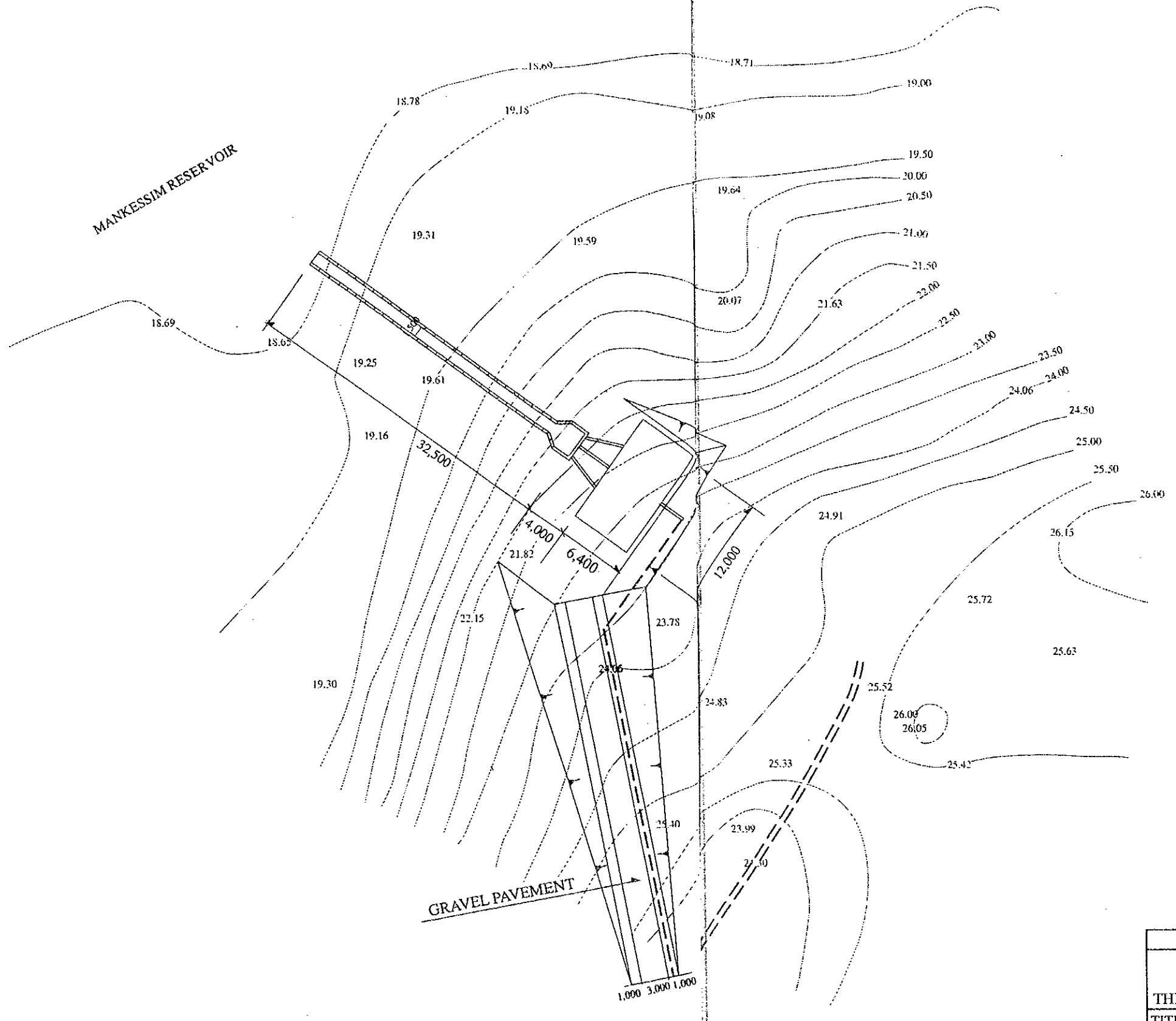
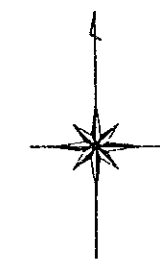


LEGEND	
	ROAD
	Pump Station
	Main Pipe Line
	Secondary Pipe Line
	Lateral Pipe Line
	Village
	Propose Area (86ha)

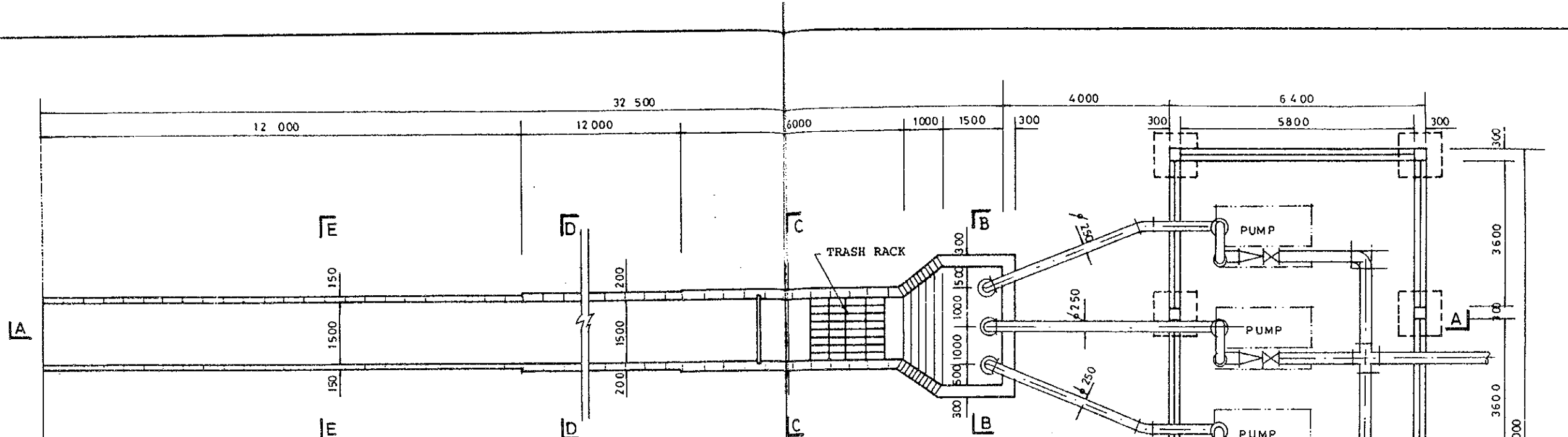


THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		MANKESSIM PROJECT	
PROJECT LAYOUT MAP			
DATE		DRAWING NO.	23 - MA-1
JAPAN INTERNATIONAL COOPERATION AGENCY			

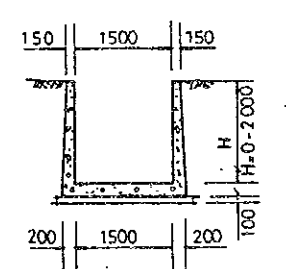
MANKESSIM RESERVOIR



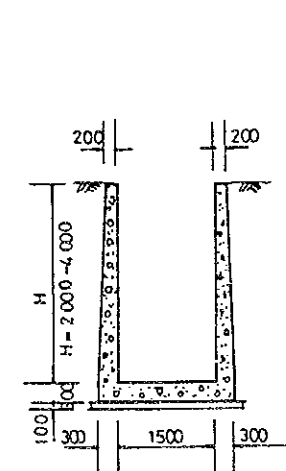
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		MANKESSIM PROJECT	
GENERAL LAYOUT FOR PUMP STATION FOR EXTENSION AREA-2			
DATE		DRAWING NO.	24 - MA-2
JAPAN INTERNATIONAL COOPERATION AGENCY			



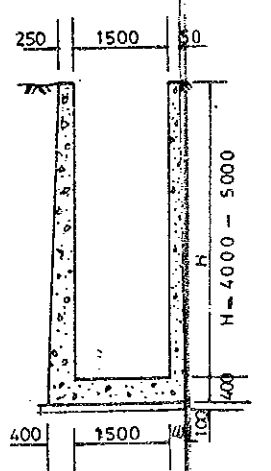
PLAN



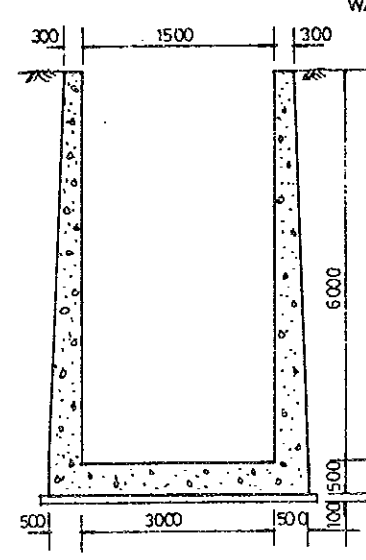
SECTION E-E



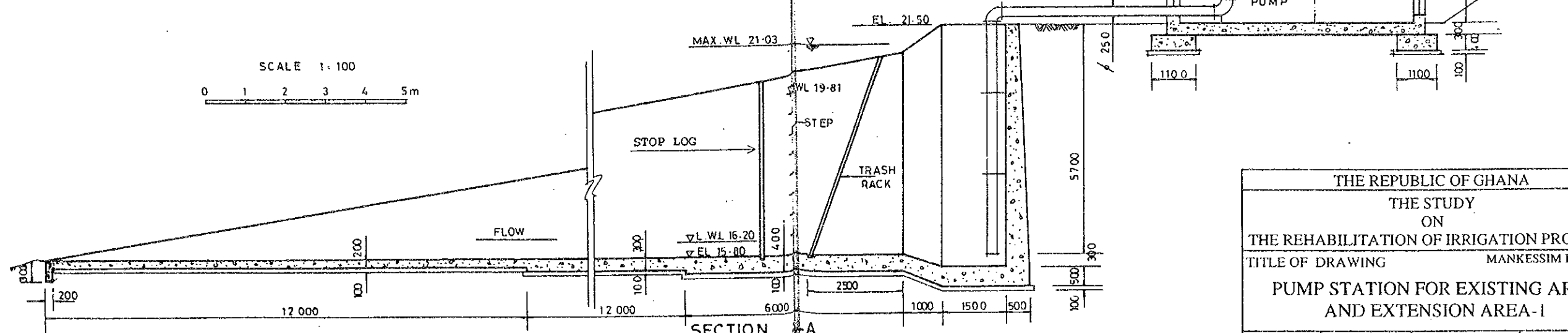
SECTION D-D



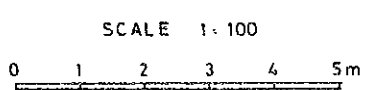
SECTION C-C



SECTION B-B



SECTION A-A



THE REPUBLIC OF GHANA		
THE STUDY		
ON		
THE REHABILITATION OF IRRIGATION PROJECTS		
TITLE OF DRAWING		MANKESSIM PROJECT
PUMP STATION FOR EXISTING AREA		
AND EXTENSION AREA-1		
DATE	DRAWING NO.	25 - MA-3
JAPAN INTERNATIONAL COOPERATION AGENCY		





*V. OKYEREKO PROJECT*



Extension Area-1 (24ha)

To Accra →

← To Sekondi

Existing Area (39ha)

(P)

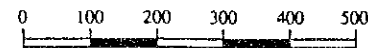
Okyereko

Okyereko Reservoir

Extension Area-2 (18ha)

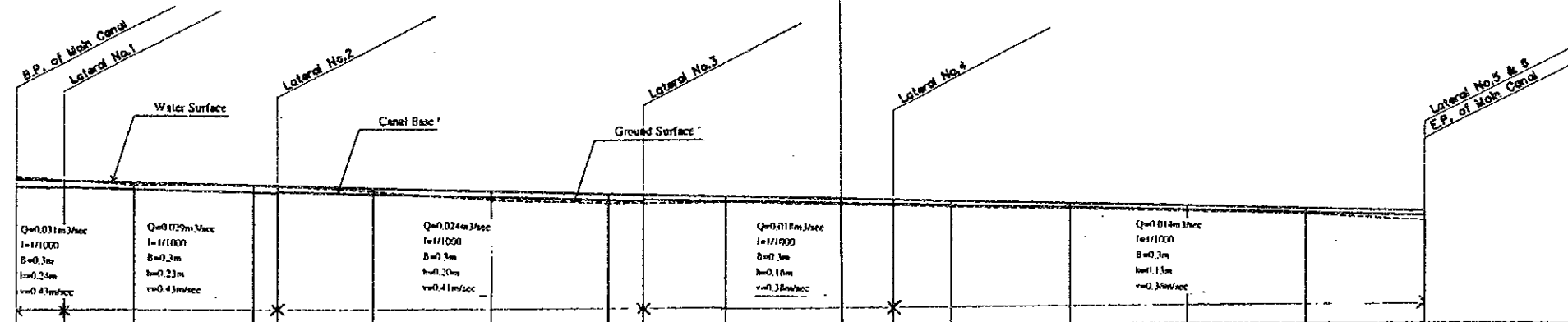
Ayensu River

LEGEND	
———	ROAD
xxxxxx	Dam
(P)	Pump Station
-----	Main Canal
- - - -	Secondary Canal
.....	Lateral Canal
.....	Main Drain
———	Pipe Line
▨▨▨▨	Village
▭▭▭▭	Propose Area (86ha)



THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		OKYEREKO PROJECT	
<b>PROJECT LAYOUT MAP</b>			
DATE		DRAWING NO.	27 - OK-1
JAPAN INTERNATIONAL COOPERATION AGENCY			

ELEVATION (m)



PROPOSED	WATER SURFACE ELEVATION	8.56	8.48	8.40	8.30	8.28	8.20	8.10	8.00	7.97	7.90	7.78	7.70	7.60	7.50	7.40	7.30
	CANAL BASE ELEVATION	8.28	8.13	8.17	8.07	8.08	8.00	7.90	7.80	7.76	7.74	7.68	7.58	7.46	7.38	7.28	7.18
EXISTING CONDITIONS	CANAL BANK ELE.(LEFT)																
	CANAL BANK ELE.(RIGHT)																
	GROUND SURFACE ELEVATION	8.60		8.30	8.30	8.28	8.10	7.80	7.70	7.70	7.70	7.50	7.50	7.40	7.30	7.20	7.00
	REDUCED DISTANCE	0.00	40.00	100.00	200.00	220.00	300.00	400.00	500.00	530.00	600.00	700.00	800.00	900.00	1000.00	1100.00	1200.00
	DISTANCE	0.00	40.00	60.00	100.00	20.00	60.00	100.00	100.00	30.00	70.00	100.00	50.00	100.00	100.00	100.00	100.00
	STATION NO.	No.0	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10	No.11	No.12			

THE REPUBLIC OF GHANA

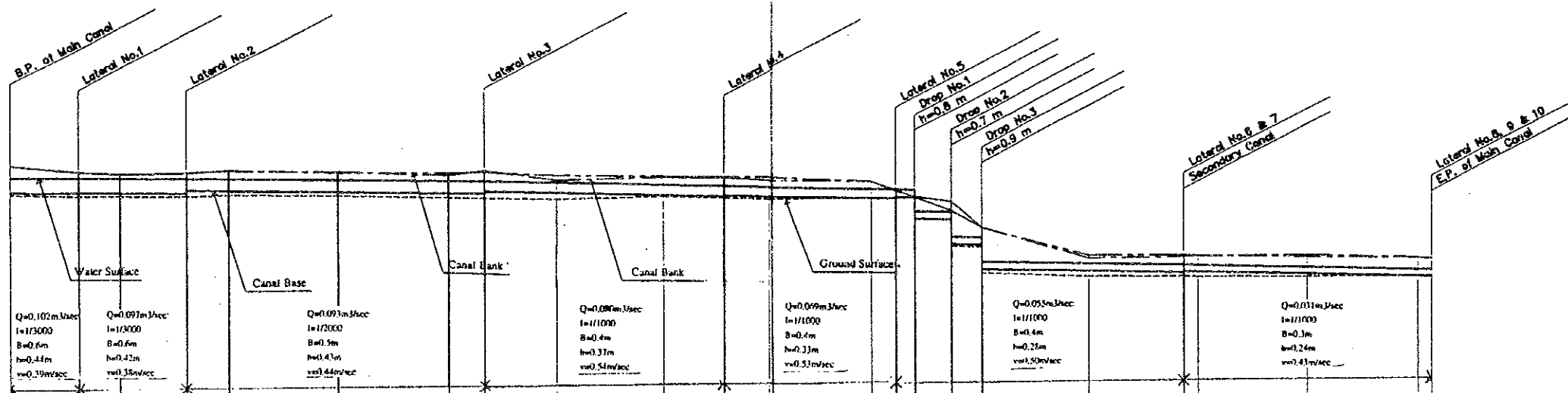
THE STUDY  
ON  
THE REHABILITATION OF IRRIGATION PROJECTS  
TITLE OF DRAWING OKYEREKO PROJECT

**PROFILE OF  
LEFT MAIN IRRIGATION CANAL**

DATE	DRAWING NO.	28 - OK-2
JAPAN INTERNATIONAL COOPERATION AGENCY		

ELEVATION (m)

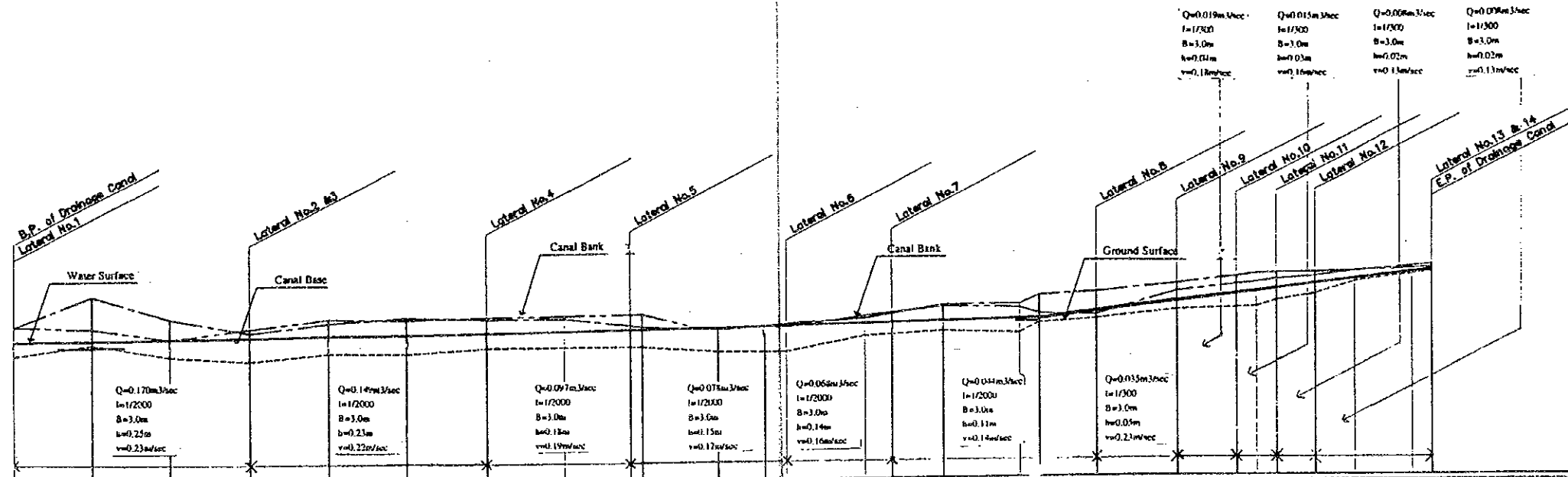
12  
11  
10  
9  
8  
7  
6



PROPOSED	WATER SURFACE ELEVATION	10.82	10.80	10.79	10.77	10.76	10.70	10.65	10.63	10.56	10.46	10.41	10.35	10.28	10.24	10.22	10.22	10.26	10.26	7.46	7.48	7.26	7.18	7.15
	CANAL BASE ELEVATION	10.28	10.28	10.27	10.25	10.32	10.27	10.22	10.25	10.19	10.08	10.04	10.03	9.93	9.91	9.95	9.95	9.95	9.95	7.19	7.17	7.02	6.92	6.81
EXISTING CONDITIONS	CANAL BANK ELE. (LEFT)	11.25	11.02	10.94	10.89	11.06	10.85	10.85	10.82	10.76	10.70	10.61	10.53	10.54	10.18	9.98	9.79	8.81	7.75	7.65	7.71	7.82	7.58	7.55
	CANAL BANK ELE. (RIGHT)	11.25	11.00	10.94	10.99	11.04	11.00	10.25	10.85	10.74	10.73	10.23	10.23	10.54	10.23	9.95	8.43	8.81	7.67	7.65	7.69	7.99	7.80	7.88
	GROUND SURFACE ELEVATION	10.19	10.14	10.14	10.12	10.17	10.13	10.05	10.02	9.96	10.04	9.96	9.93	9.84	9.83	9.92	8.09	8.10	6.96	6.85	6.86	6.91	6.83	6.94
	REDUCED DISTANCE	0.00	51.00	100.00	182.00	200.00	300.00	400.00	432.00	500.00	600.00	687.00	750.00	800.00	822.00	839.00	872.40	900.00	1000.00	1087.00	1100.00	1200.00	1300.00	1312.00
	DISTANCE	0.00	51.00	96.00	152.00	200.00	300.00	400.00	432.00	480.00	570.00	657.00	732.00	800.00	822.00	839.00	872.40	900.00	1000.00	1087.00	1100.00	1200.00	1300.00	1312.00
	STATION NO.	No.0	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10	No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	No.21	No.22

THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		OKYERIKO PROJECT	
PROFILE OF RIGHT MAIN IRRIGATION CANAL			
DATE		DRAWING NO.	29 - OK-3
JAPAN INTERNATIONAL COOPERATION AGENCY			

ELEVATION (m)

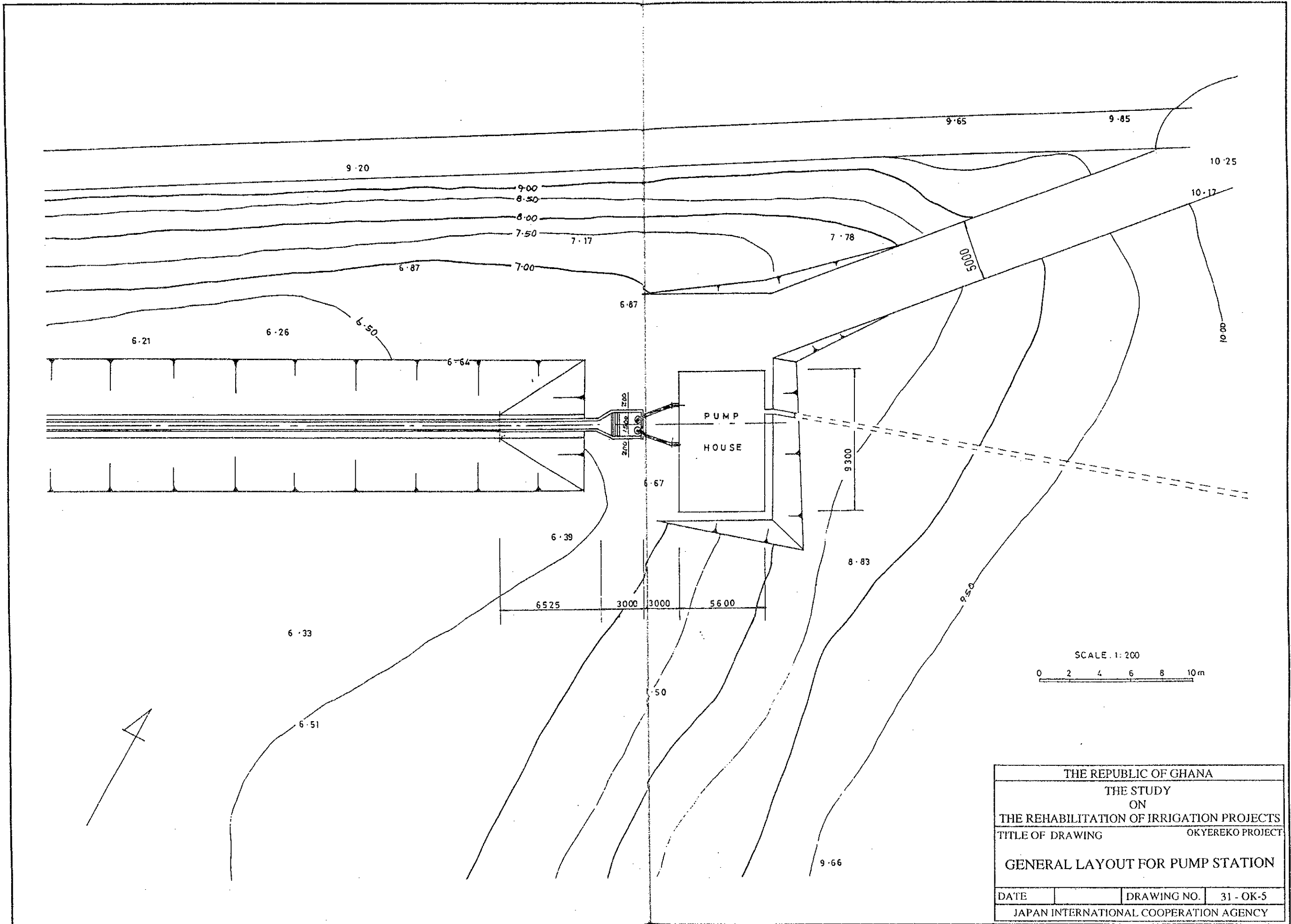


PROPOSED	WATER SURFACE ELEVATION		CANAL BASE ELEVATION		CANAL BANK ELE. (LEFT)		CANAL BANK ELE. (RIGHT)		GROUND SURFACE ELEVATION		REDUCED DISTANCE	DISTANCE	STATION NO.
	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right			
	4.57	4.82	4.37	4.57	5.12	5.05	5.11	4.07	4.07	4.07	0.00	0.00	Sta. C
											100.00	100.00	Sta. 1
											200.00	100.00	Sta. 2
											300.00	100.00	Sta. 3
											400.00	100.00	Sta. 4
											500.00	100.00	Sta. 5
											600.00	100.00	Sta. 6
											700.00	100.00	Sta. 7
											783.00	85.00	Sta. 8
											800.00	15.00	Sta. 9
											900.00	100.00	Sta. 10
											980.00	80.00	Sta. 11
											1000.00	20.00	Sta. 12
											1100.00	100.00	Sta. 13
											1135.00	35.00	Sta. 14
											1200.00	65.00	Sta. 15
											1300.00	100.00	Sta. 16
											1325.00	25.00	Sta. 17
											1400.00	75.00	Sta. 18
											1500.00	100.00	Sta. 19
											1575.00	75.00	Sta. 20
											1600.00	25.00	Sta. 21
											1625.00	25.00	Sta. 22
											1675.00	50.00	Sta. 23
											1725.00	50.00	Sta. 24
											1800.00	75.00	Sta. 25
											1825.00	25.00	Sta. 26

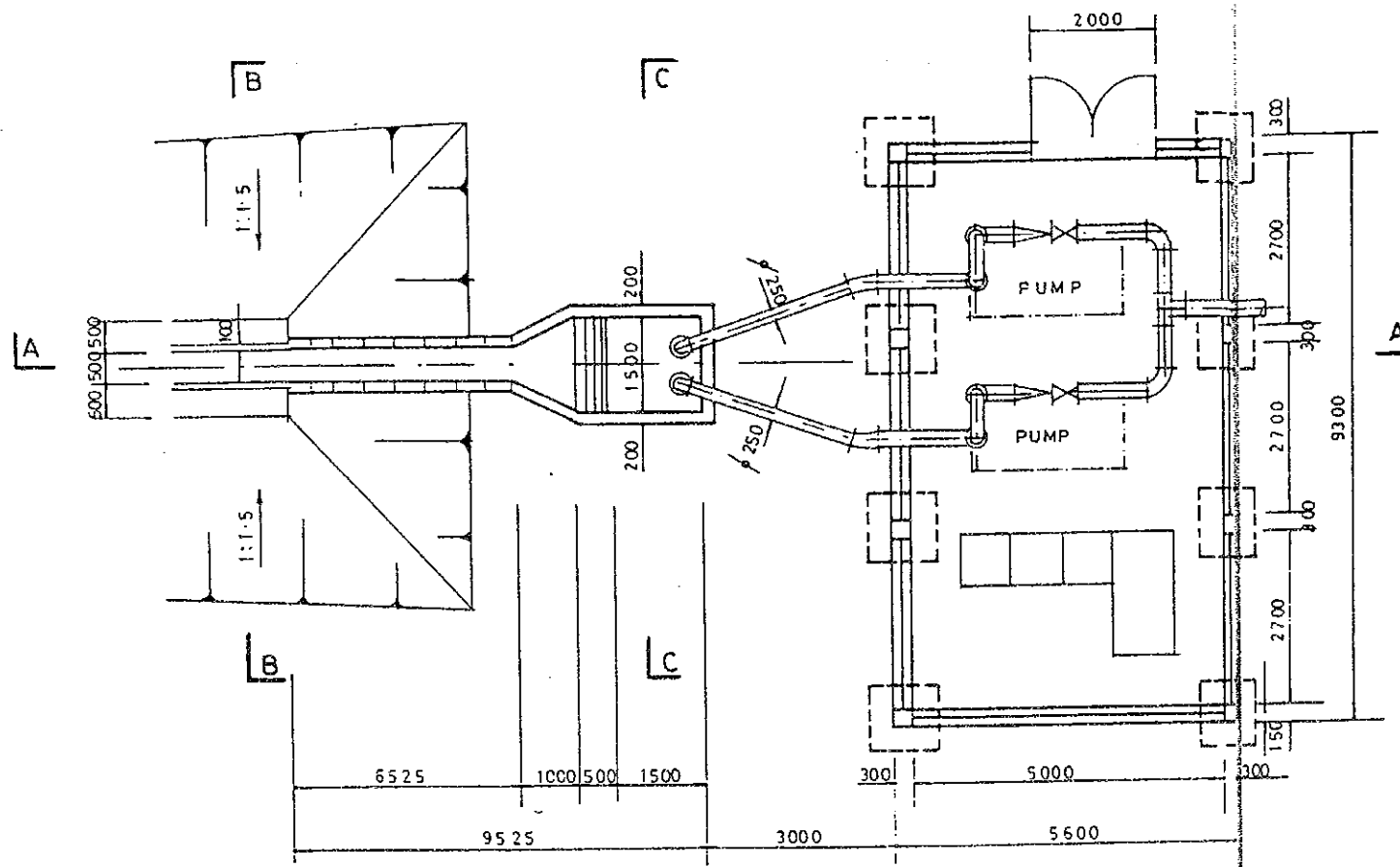
THE REPUBLIC OF GHANA  
THE STUDY  
ON  
THE REHABILITATION OF IRRIGATION PROJECTS  
TITLE OF DRAWING OKYEREKO PROJECT

**PROFILE OF MAIN DRAIN**

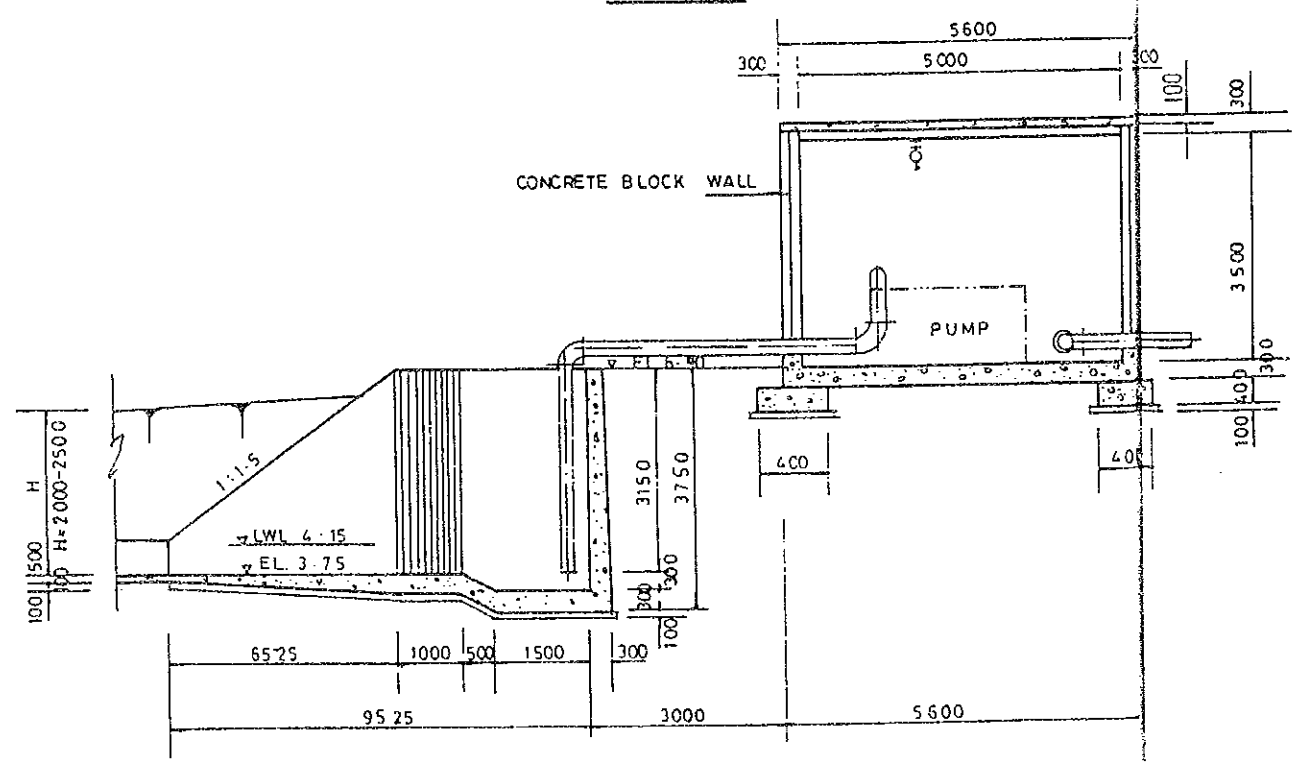
DATE	DRAWING NO.	30 - OK-4
JAPAN INTERNATIONAL COOPERATION AGENCY		



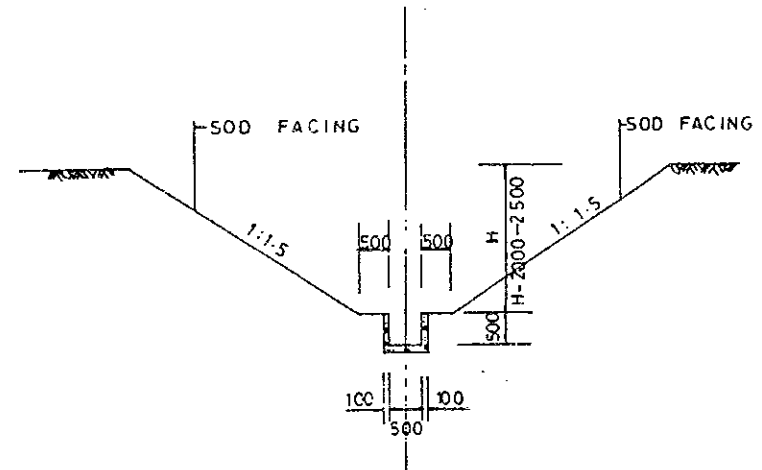
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		OKYEREKO PROJECT	
GENERAL LAYOUT FOR PUMP STATION			
DATE	DRAWING NO.	31 - OK-5	
JAPAN INTERNATIONAL COOPERATION AGENCY			



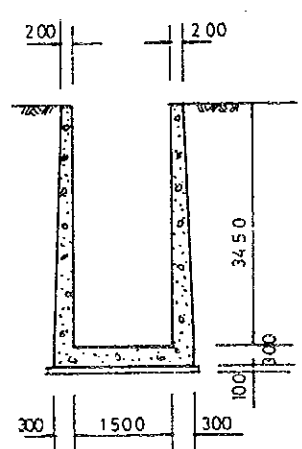
PLAN



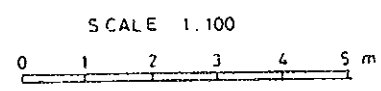
SECTION A-A



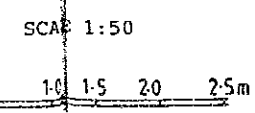
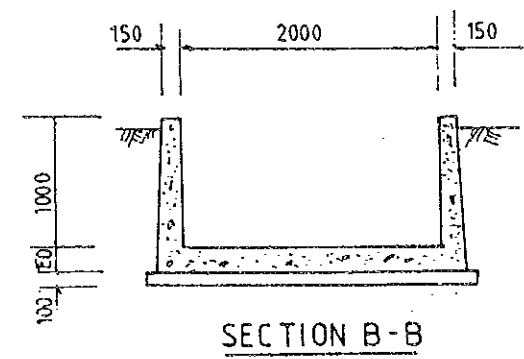
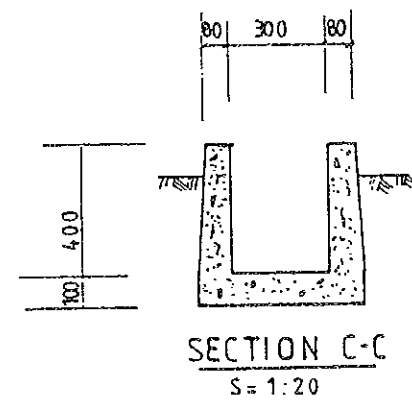
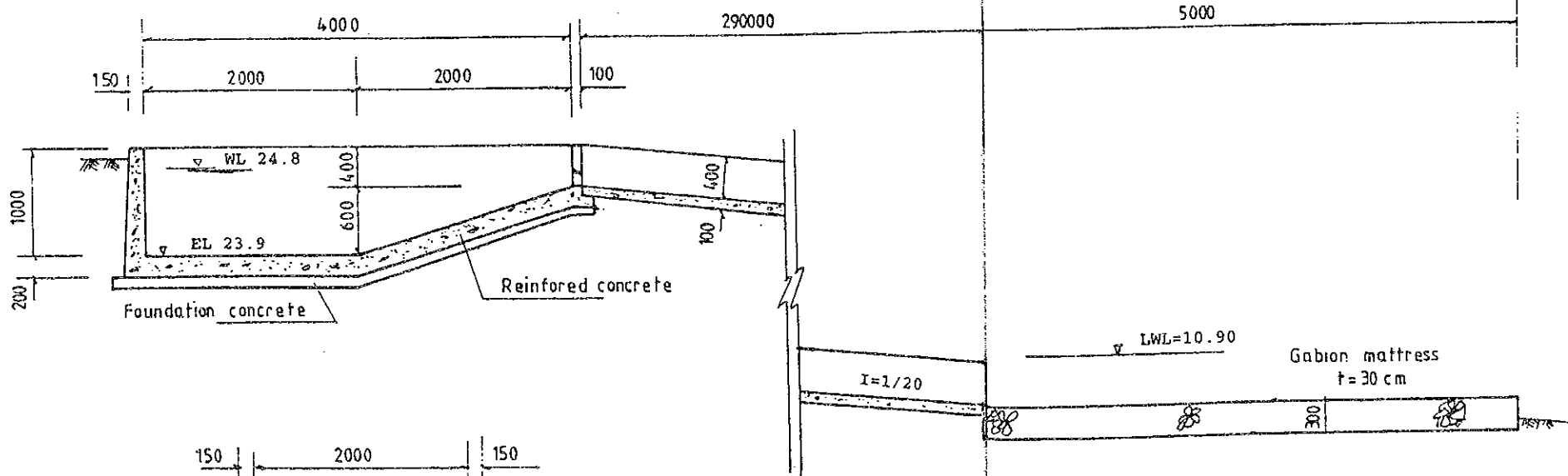
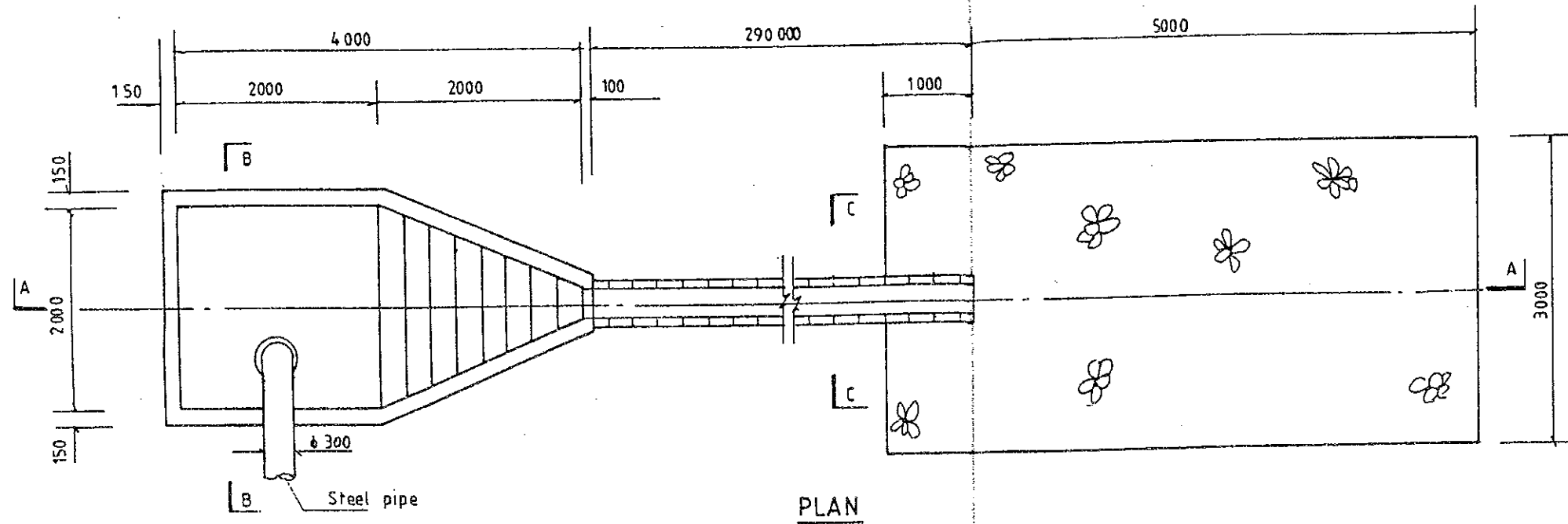
SECTION B-B



SECTION C-C

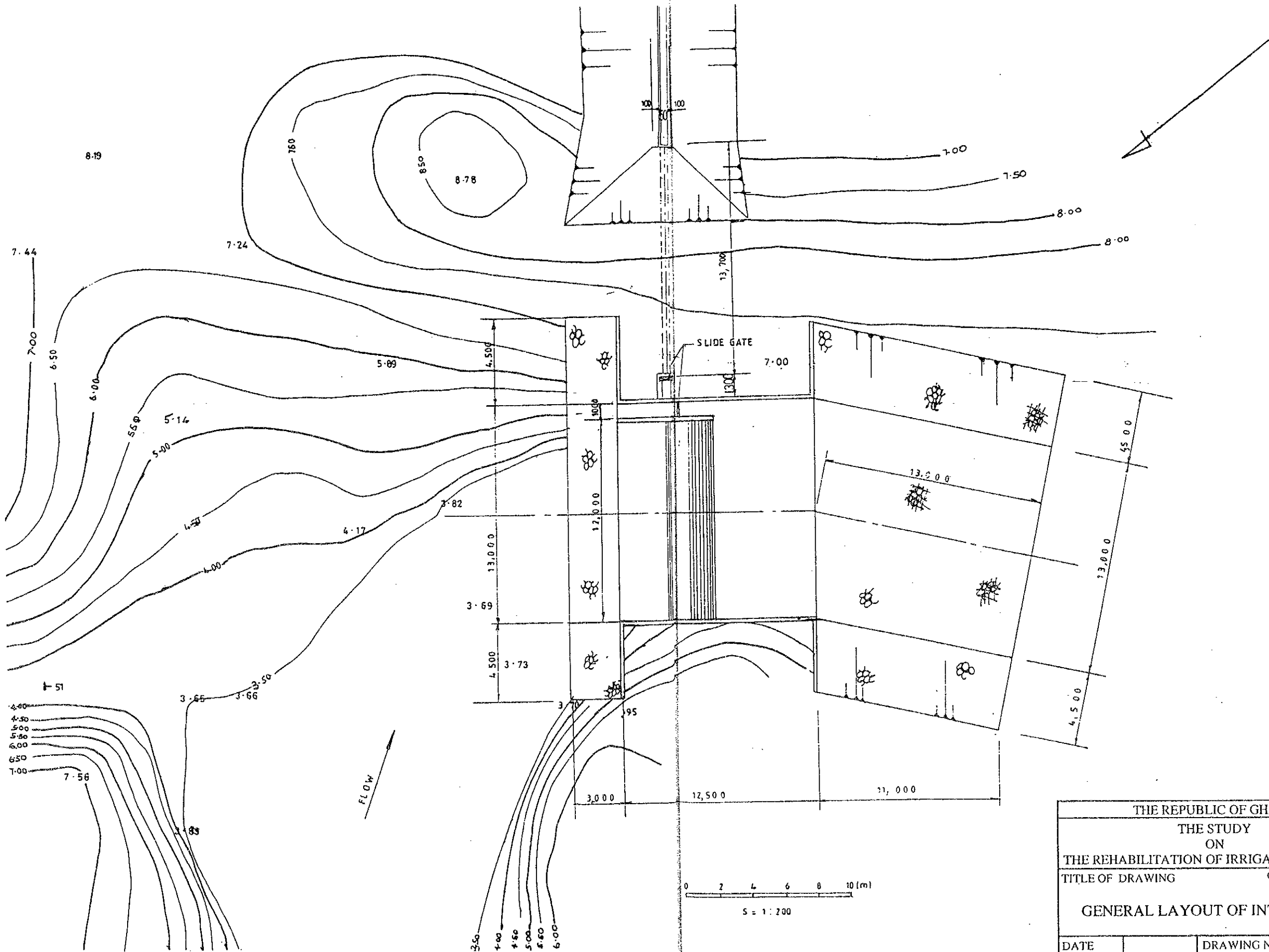


THE REPUBLIC OF GHANA			
THE STUDY			
ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		OKYEREKO PROJECT	
PUMP STATION			
DATE	DRAWING NO.	32 - OK-6	
JAPAN INTERNATIONAL COOPERATION AGENCY			

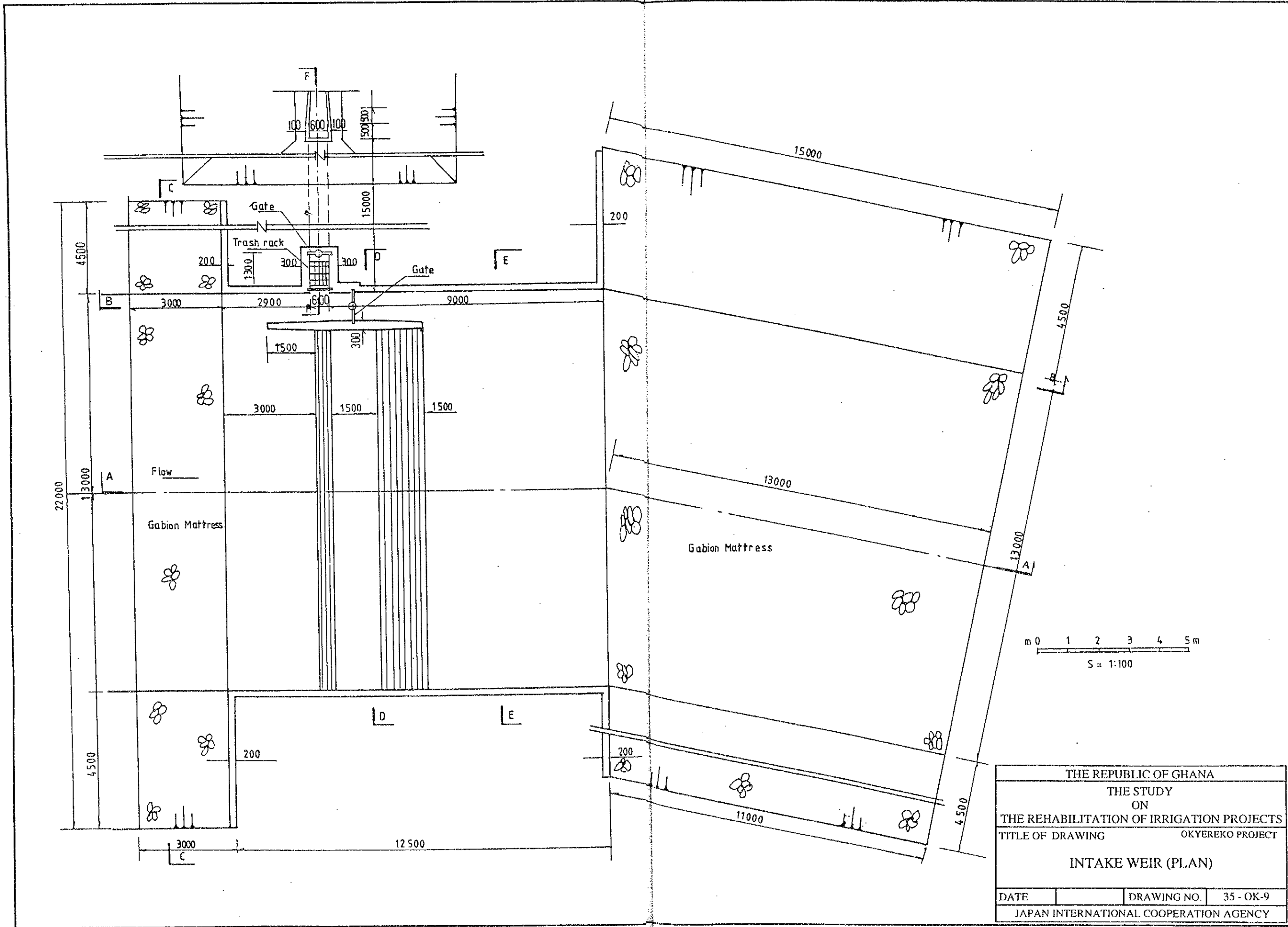


THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		OKYEREKO PROJECT	
OUTLET AND CHUTE			
DATE		DRAWING NO.	33 - OK-7
JAPAN INTERNATIONAL COOPERATION AGENCY			

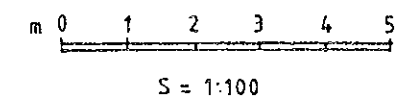
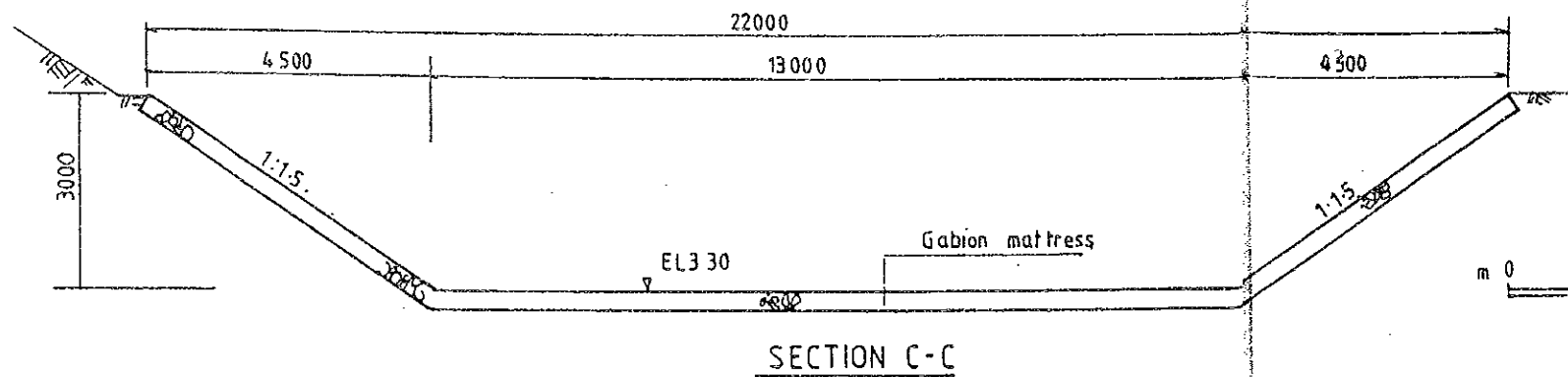
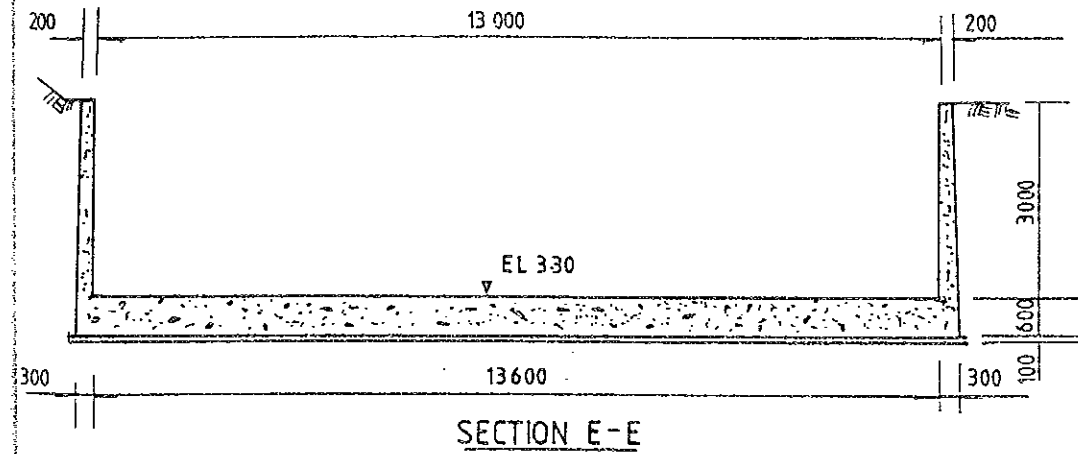
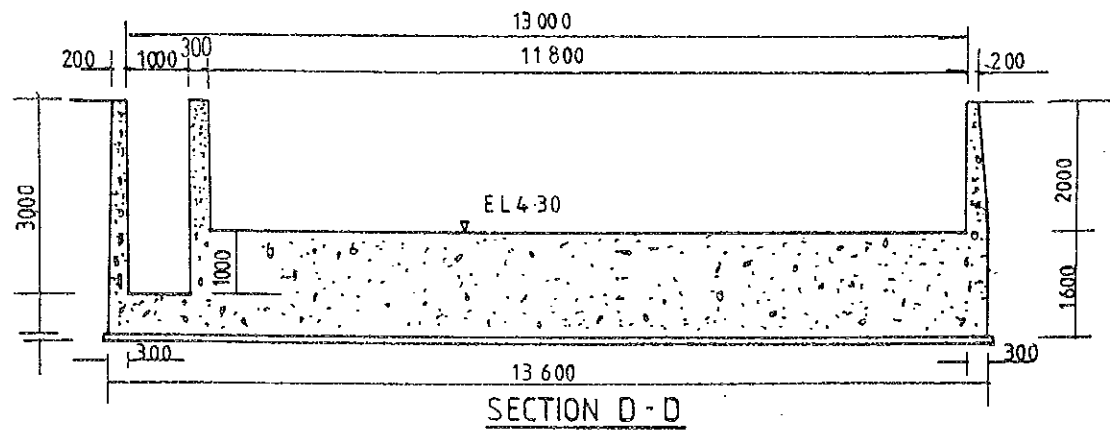
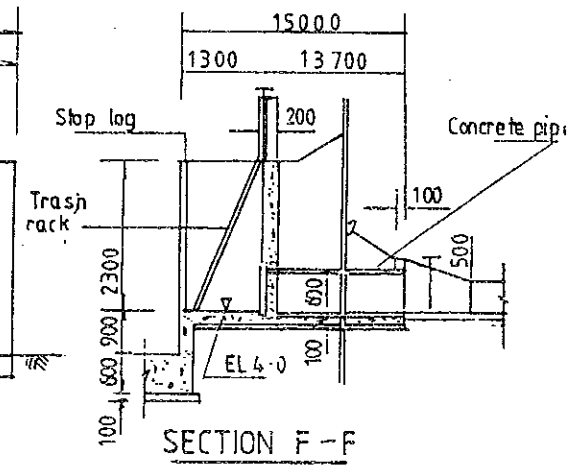
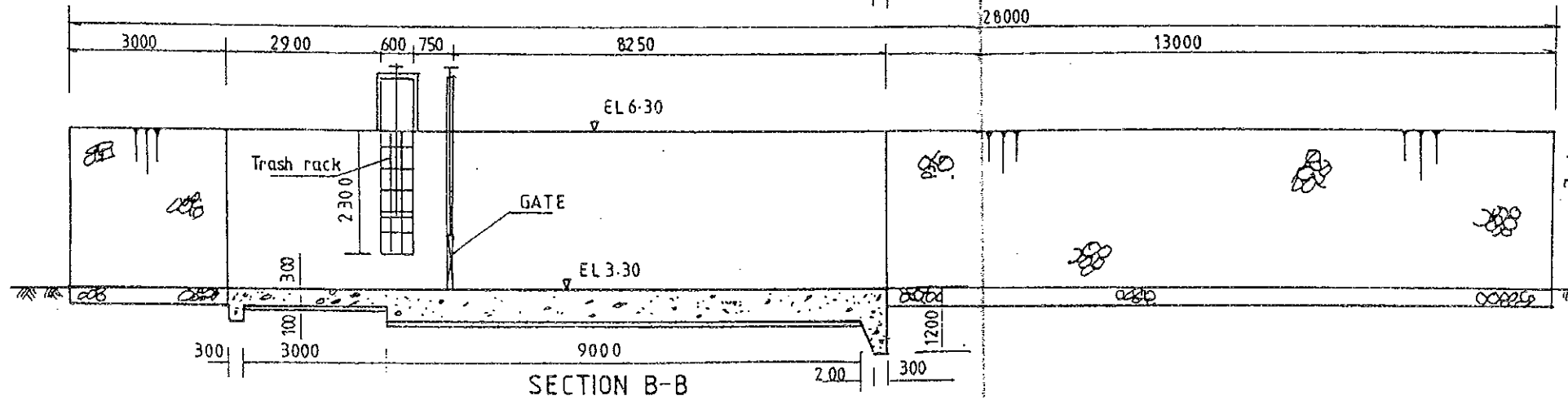
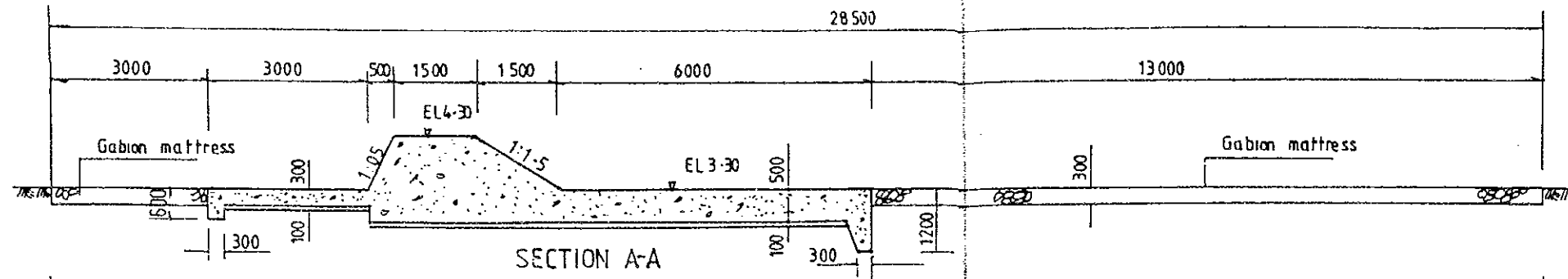




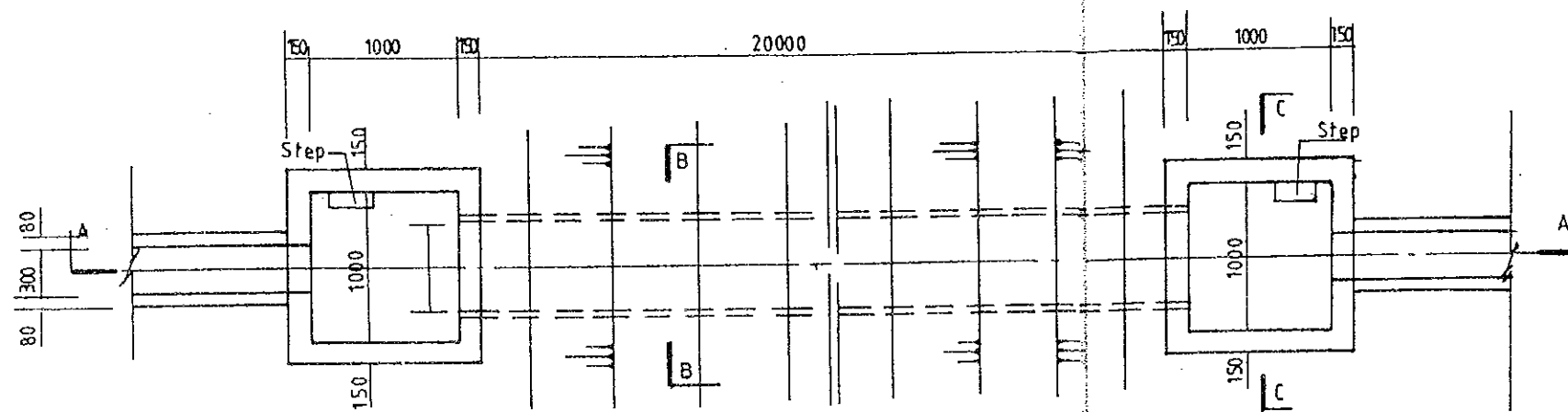
THE REPUBLIC OF GHANA		
THE STUDY		
ON		
THE REHABILITATION OF IRRIGATION PROJECTS		
TITLE OF DRAWING	OKYEREKO PROJECT	
GENERAL LAYOUT OF INTALE WEIR		
DATE	DRAWING NO.	34 - OK-8
JAPAN INTERNATIONAL COOPERATION AGENCY		



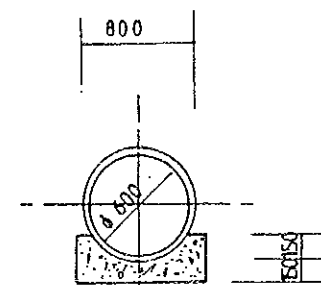
THE REPUBLIC OF GHANA			
THE STUDY			
ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		OKYEROKO PROJECT	
INTAKE WEIR (PLAN)			
DATE	DRAWING NO.	35 - OK-9	
JAPAN INTERNATIONAL COOPERATION AGENCY			



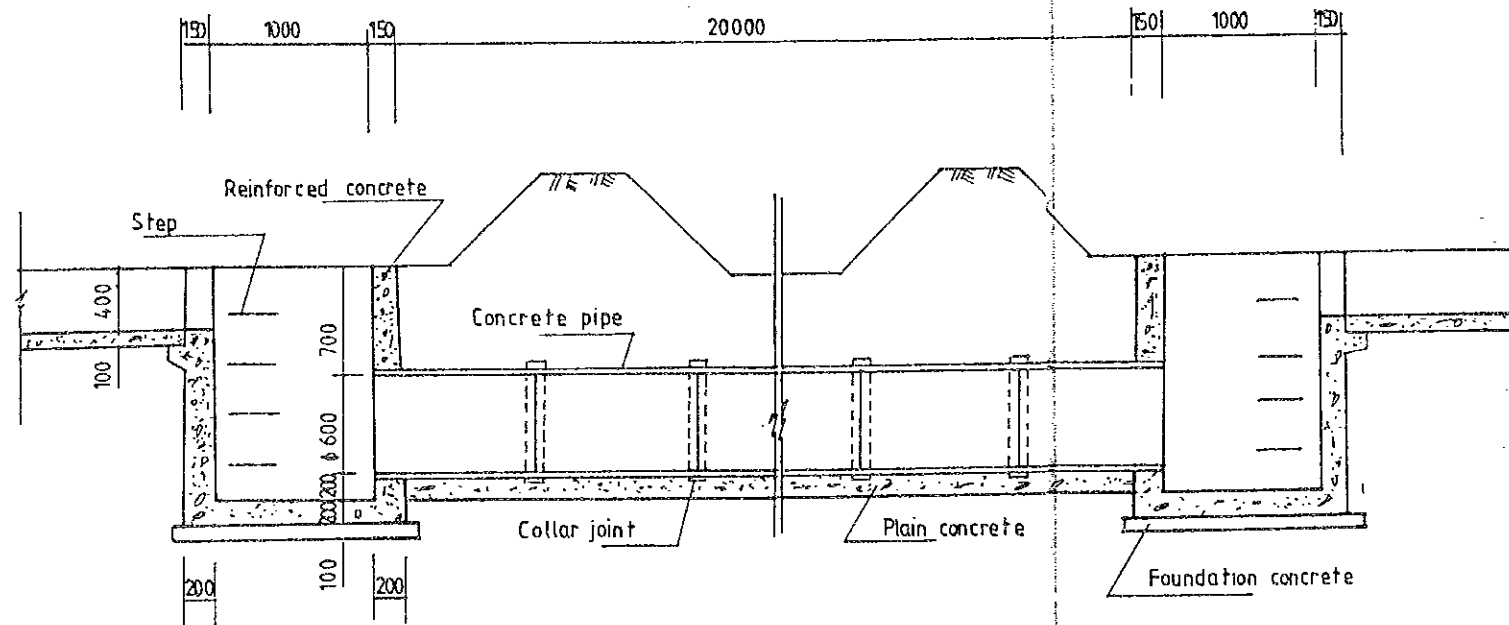
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		OKYEREKO PROJECT	
INTAKE WEIR (SECTION)			
DATE		DRAWING NO.	36 - OK-10
JAPAN INTERNATIONAL COOPERATION AGENCY			



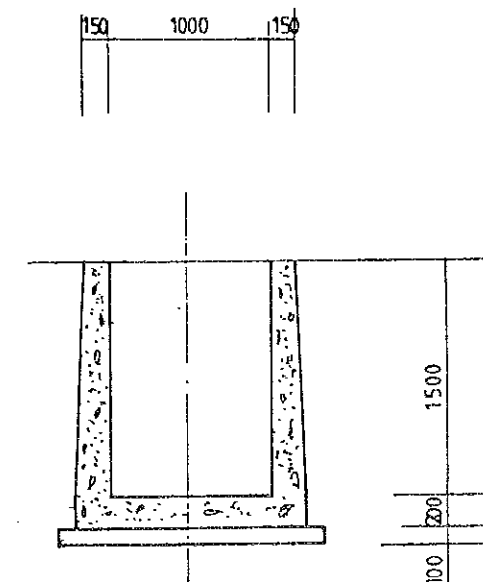
PLAN



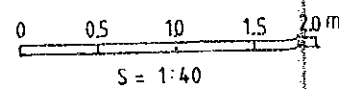
SECTION B-B



SECTION A-A



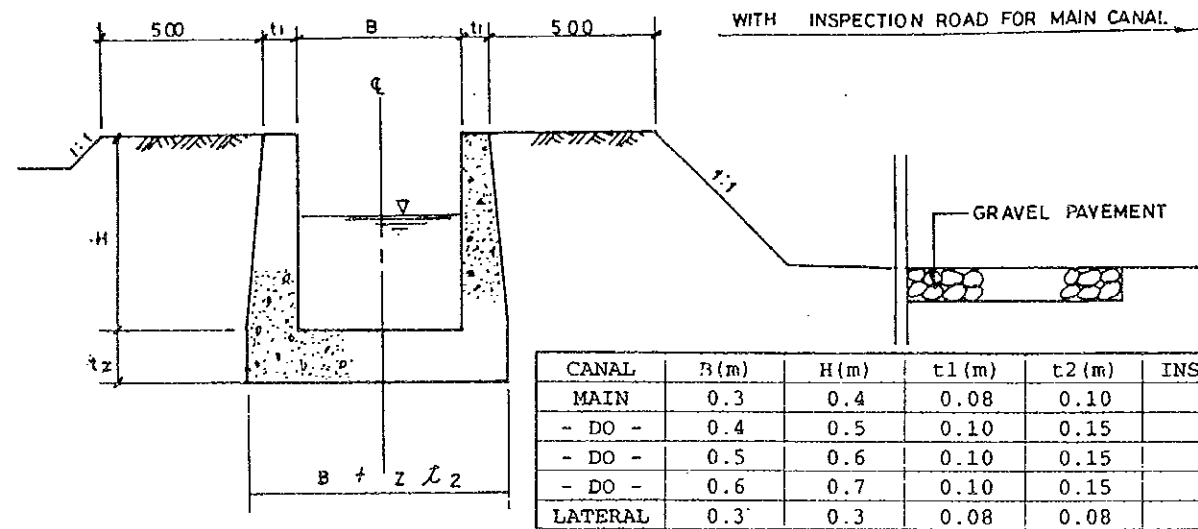
SECTION C-C



THE REPUBLIC OF GHANA			
THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		OKYEREKO PROJECT	
SIPHON			
DATE	DRAWING NO.	37 - OK-11	
JAPAN INTERNATIONAL COOPERATION AGENCY			

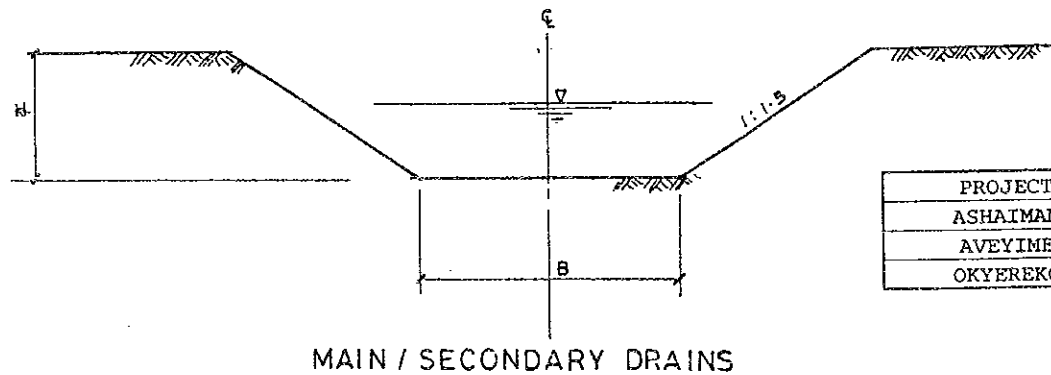
2025 RELEASE UNDER E.O. 14176

## *VI. COMMON FACILITY*



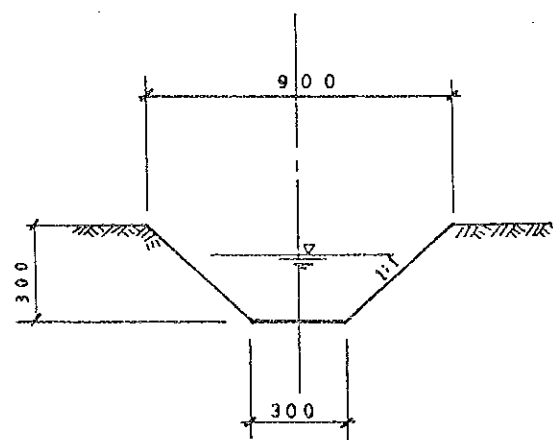
CANAL	B (m)	H (m)	t1 (m)	t2 (m)	INSPECTION ROAD
MAIN	0.3	0.4	0.08	0.10	PROVIDED
- DO -	0.4	0.5	0.10	0.15	- 0 -
- DO -	0.5	0.6	0.10	0.15	- 0 -
- DO -	0.6	0.7	0.10	0.15	- 0 -
LATERAL	0.3	0.3	0.08	0.08	0

FLUME FOR IRRIGATION CANAL

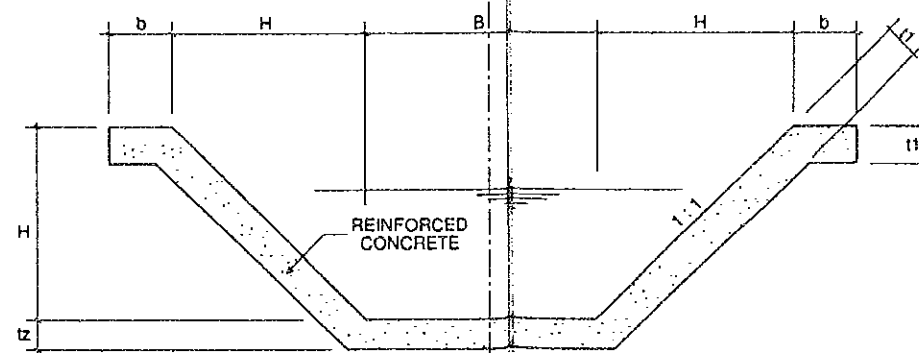


PROJECT	(m)	H (m)
ASHATMAN	3.1-12.0	1.0-2.0
AVEYIME	2.0	1.0-2.0
OKYERERKO	2.0	1.0-2.0

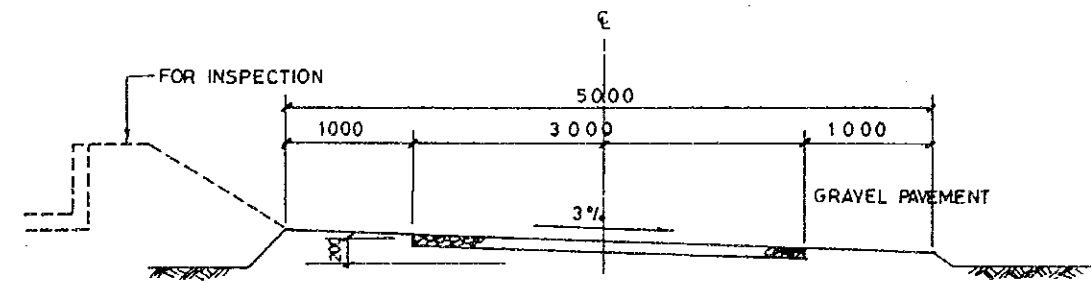
MAIN / SECONDARY DRAINS



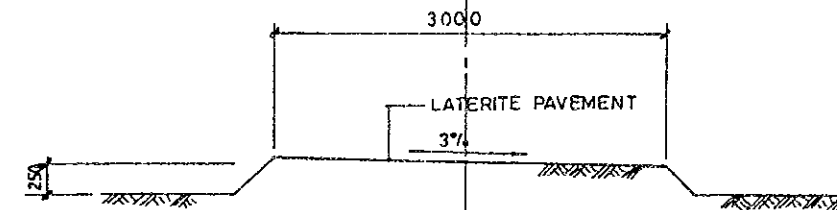
LATERAL DRAIN



COLLECTOR DRAIN

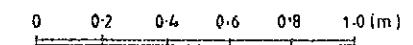


MAIN FARM ROAD  
(INSPECTION ROAD)

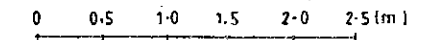


LATERAL FARM ROAD

SCALE (1:20)

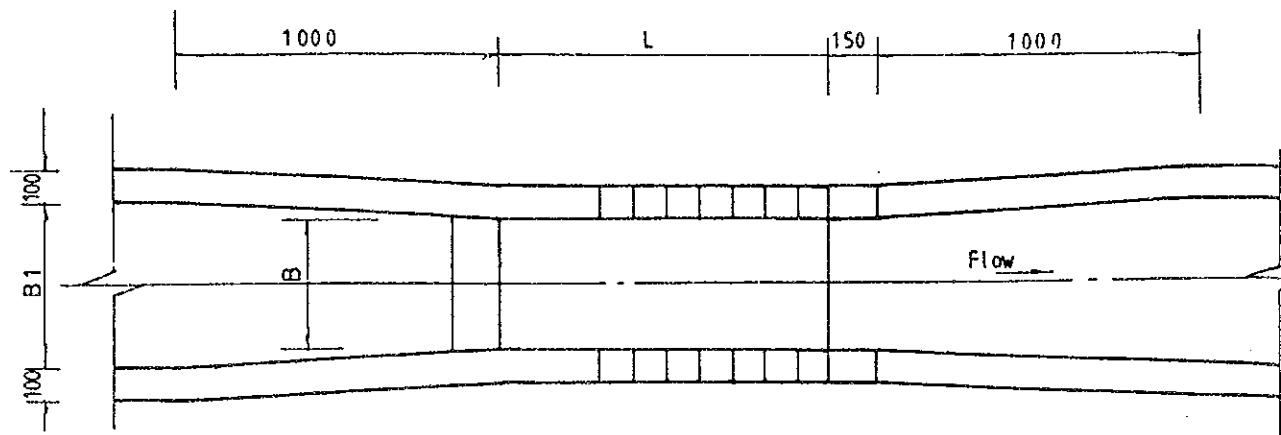


SCALE (1:50)

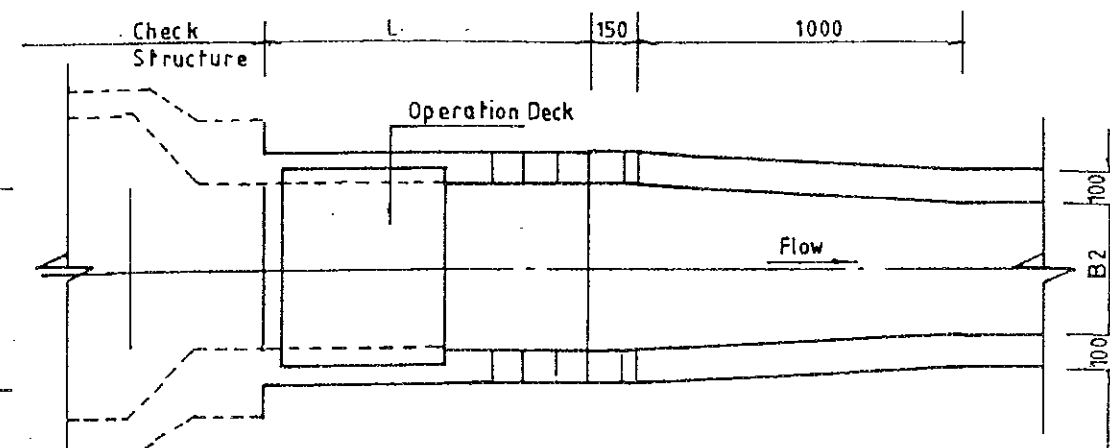


PROJECT	B (m)	H (m)	b (m)	t1 (m)	t2 (m)
KPANDO-TORKOR	0.3-0.5	0.6	0.2	0.1	0.1
MANKESSIM	0.5-1.0	0.6	0.2	0.1	0.1

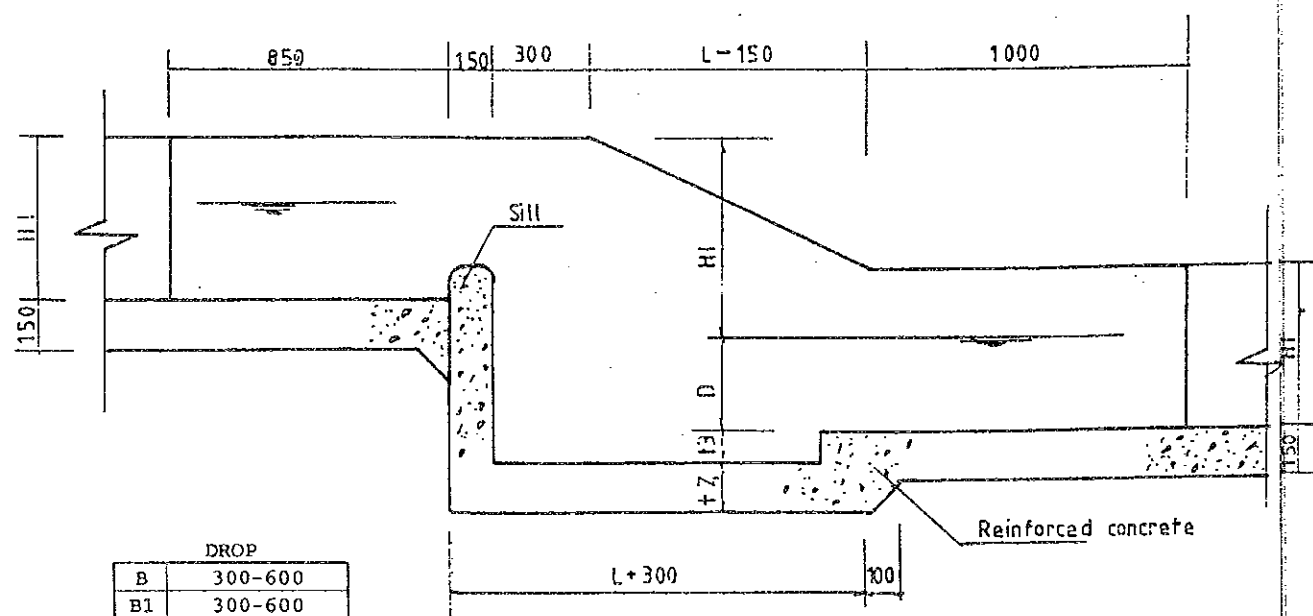
THE REPUBLIC OF GHANA			
THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
TYPICAL SECTIONS OF FLUME, DRAIN AND ROAD			
DATE		DRAWING NO.	38 - CF-1
JAPAN INTERNATIONAL COOPERATION AGENCY			



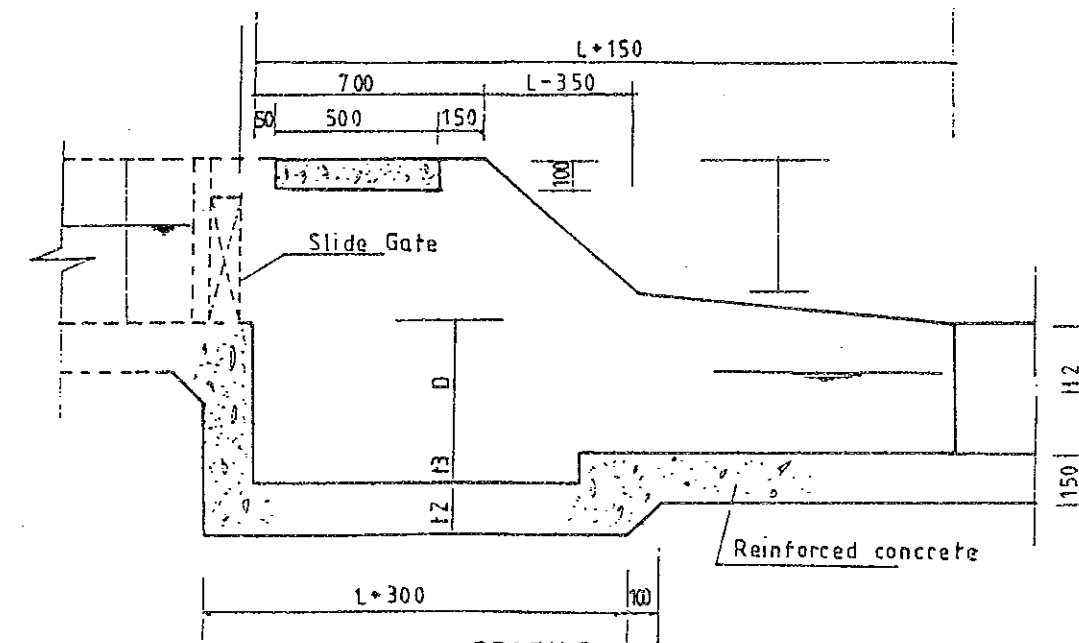
PLAN



PLAN

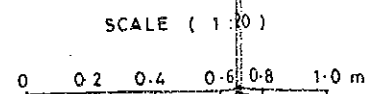


PROFILE

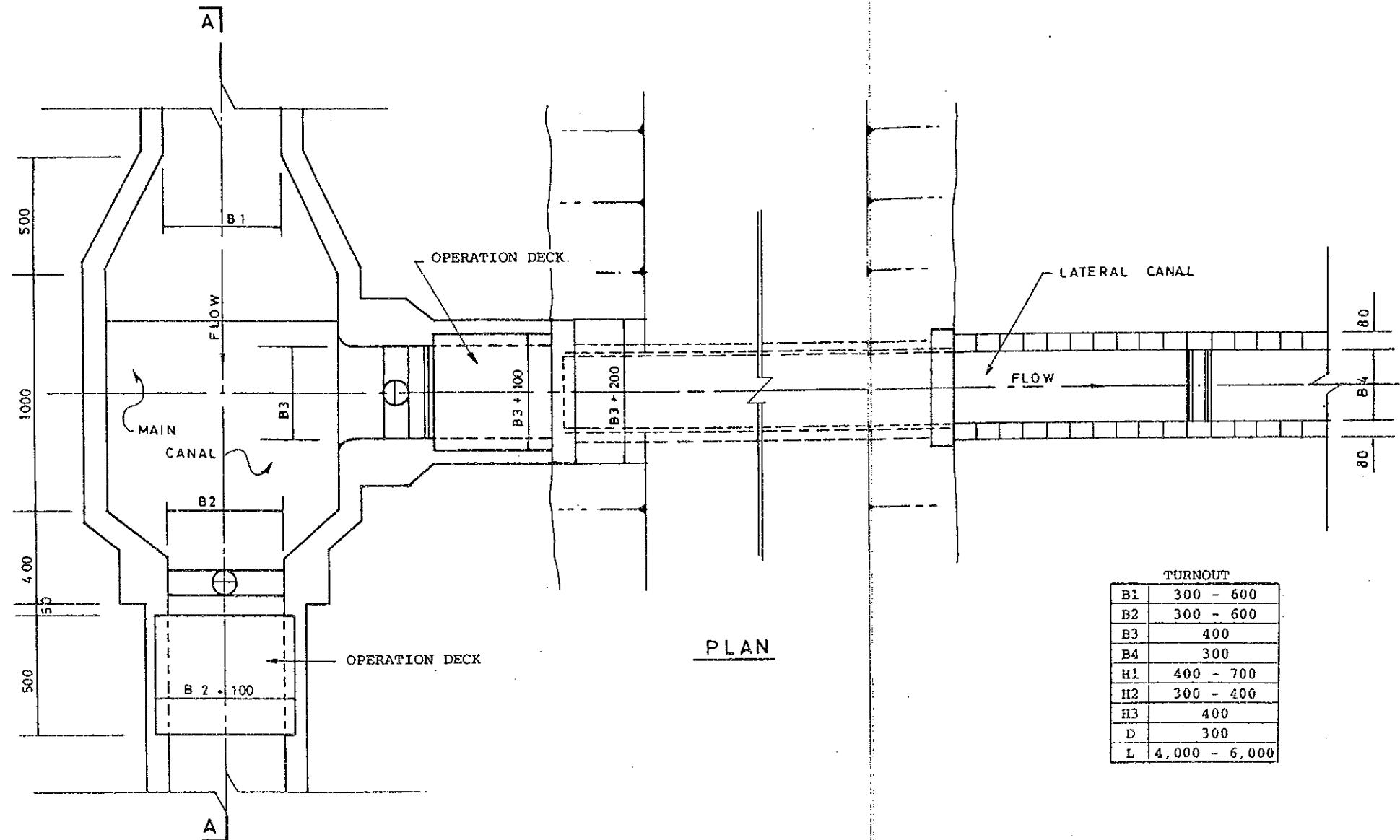


PROFILE

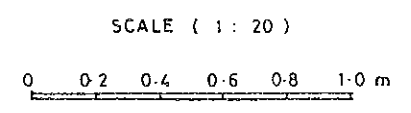
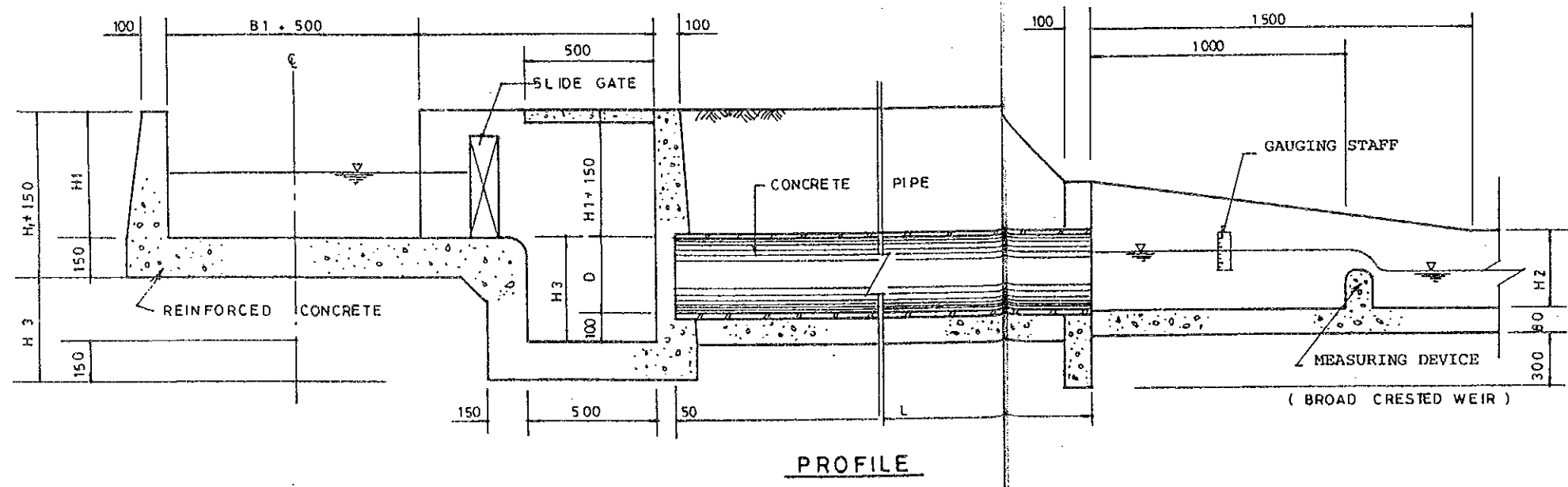
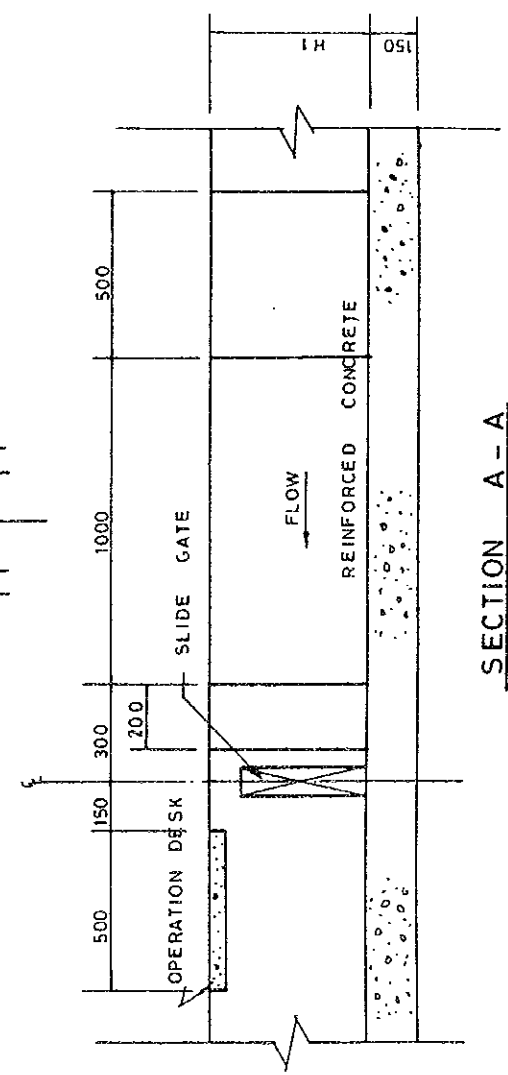
DROP	
B	300-600
B1	300-600
B2	300-600
H1	400-700
H2	400-700
t2	150-200
t3	100-200
D	300-1,000
L	1,000-1,500



THE REPUBLIC OF GHANA			
THE STUDY			
ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
DROP			
DATE	DRAWING NO.	39 - CF-2	
JAPAN INTERNATIONAL COOPERATION AGENCY			

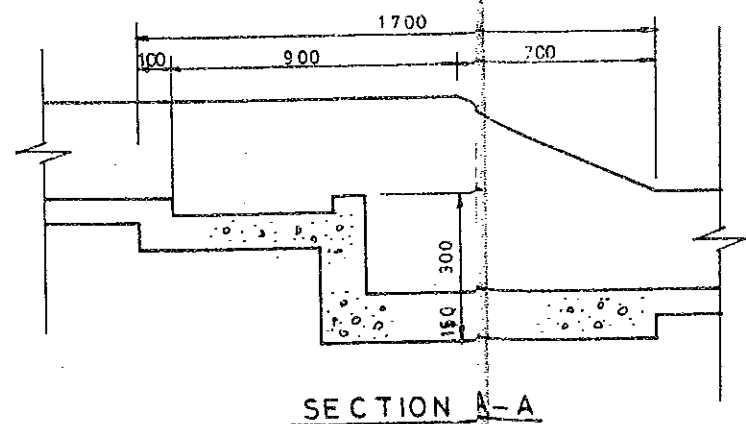
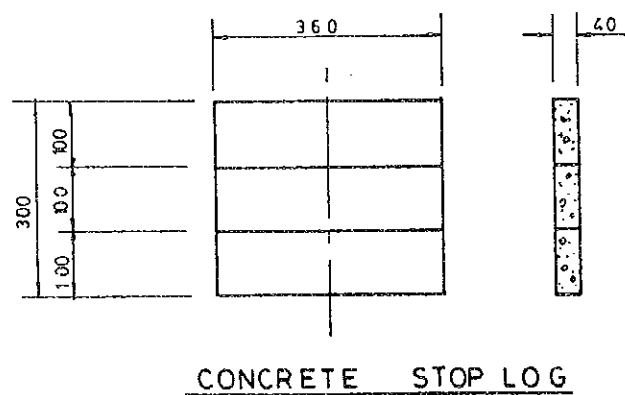
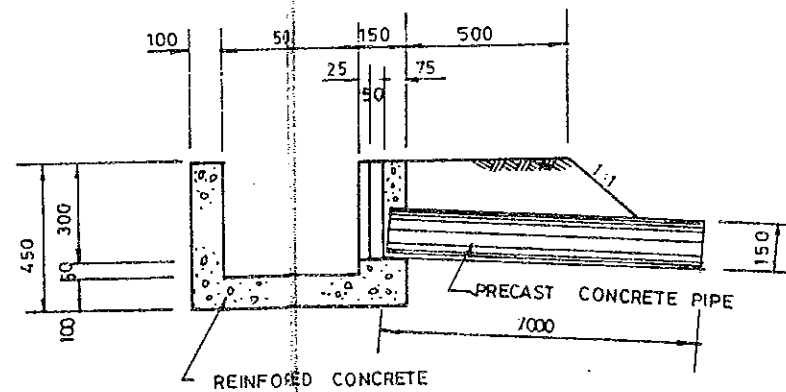
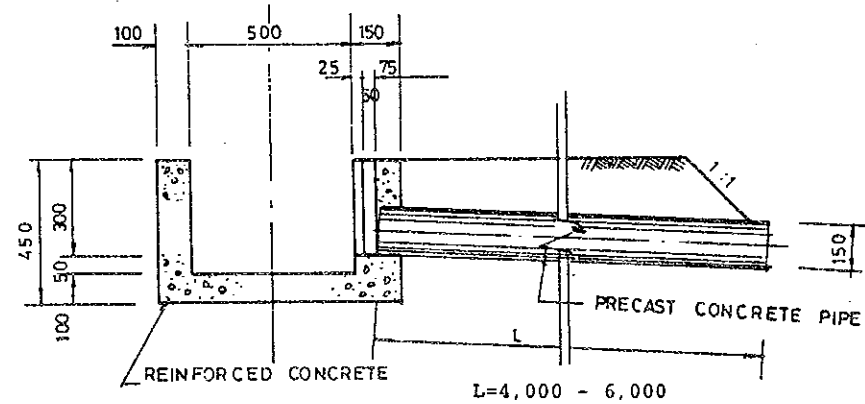
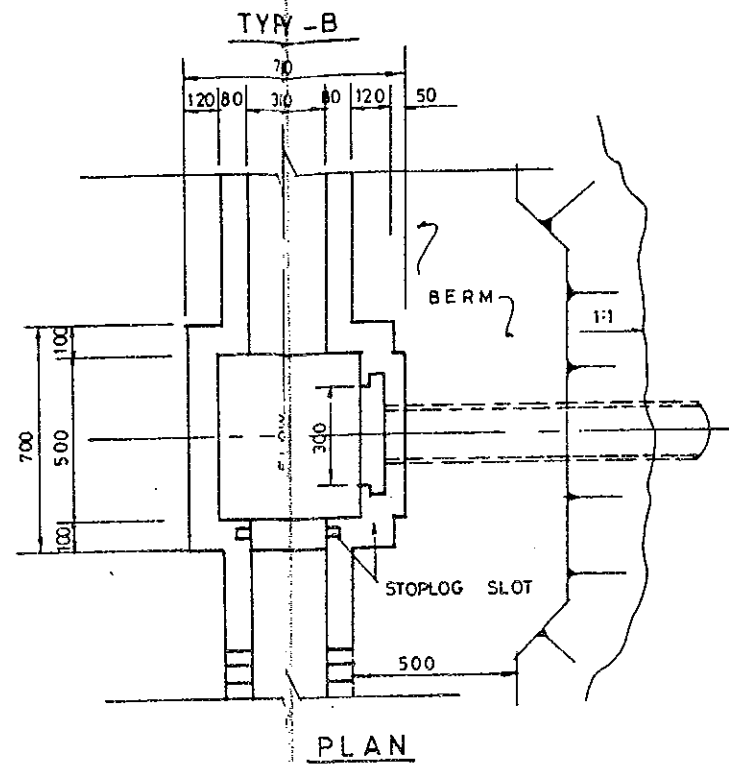
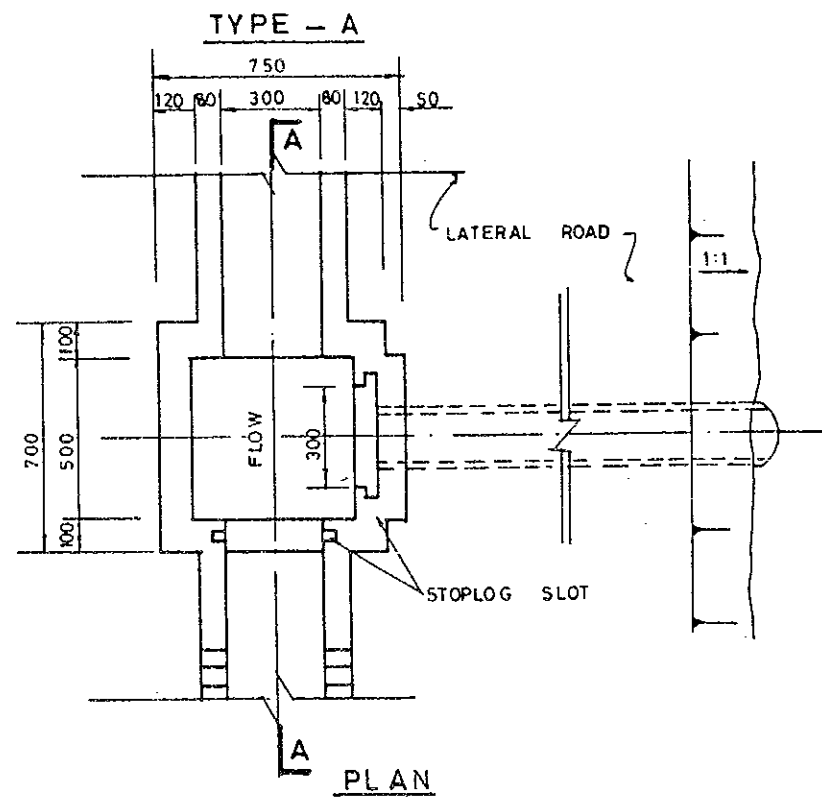


TURNOUT	
B1	300 - 600
B2	300 - 600
B3	400
B4	300
H1	400 - 700
H2	300 - 400
H3	400
D	300
L	4,000 - 6,000



THE REPUBLIC OF GHANA			
THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
TURNOUT			
DATE		DRAWING NO.	40 - CF-3
JAPAN INTERNATIONAL COOPERATION AGENCY			





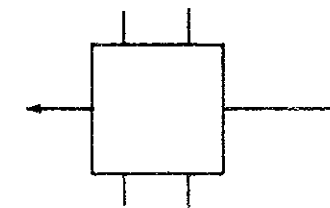
SCALE (1:10)

0 0.1 0.2 0.3 0.4 0.5

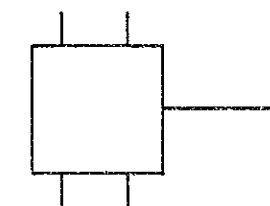
SCALE (1:20)

0 0.2 0.4 0.6 0.8 1.0

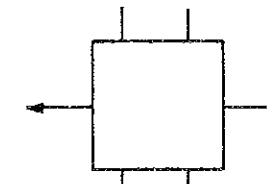
**TYPY OF FIELD OUTLET**



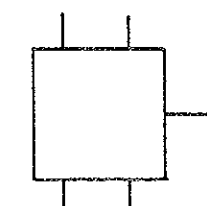
**TYPE - A-1**



**TYPE - A-2**



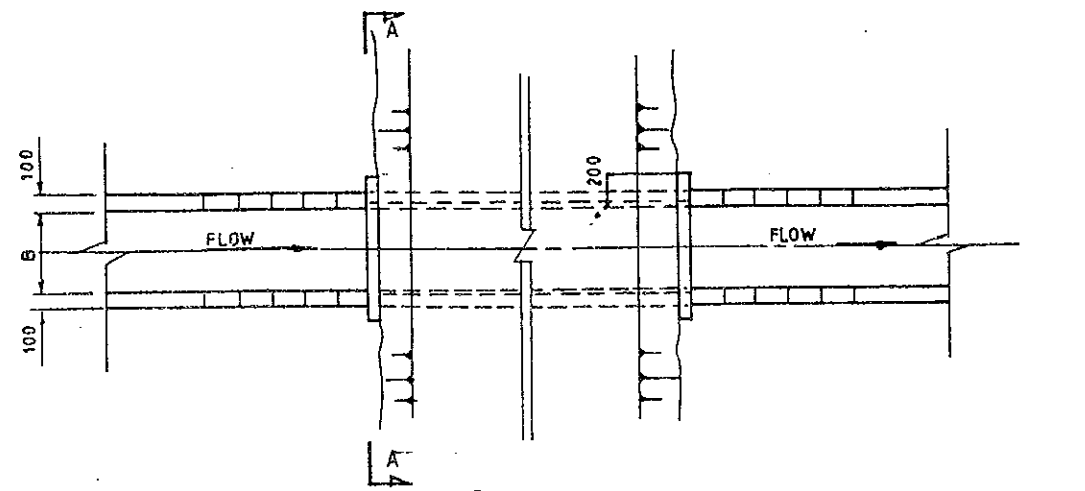
**TYPE - B-1**



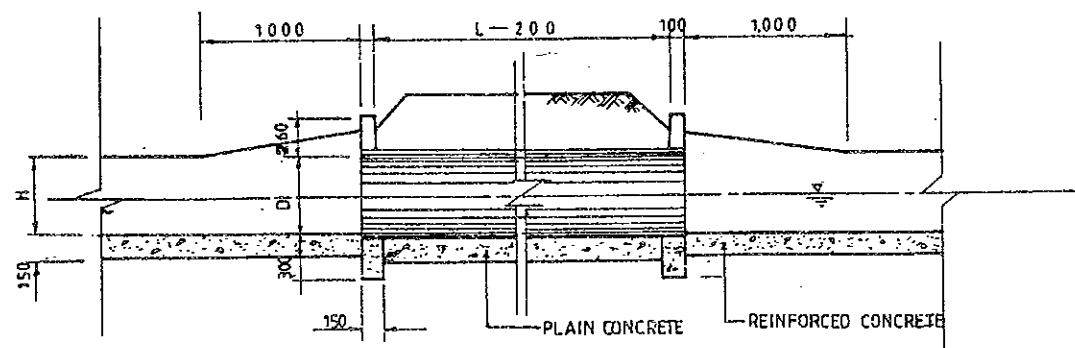
**TYPE - B-2**

THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
FIELD OUTLET AND LATERAL DROP			
DATE	DRAWING NO.	41 - CF-4	
JAPAN INTERNATIONAL COOPERATION AGENCY			

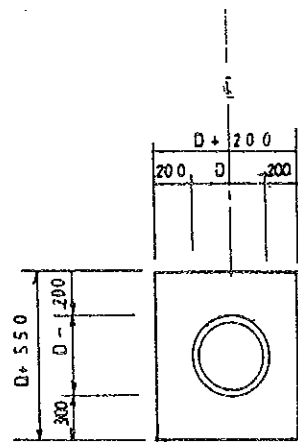
TYPE-A



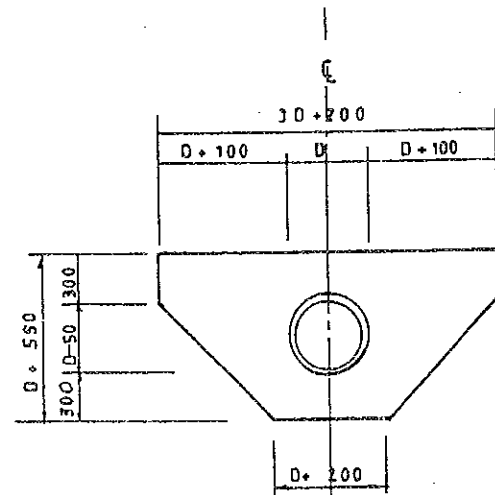
PLAN



PROFILE

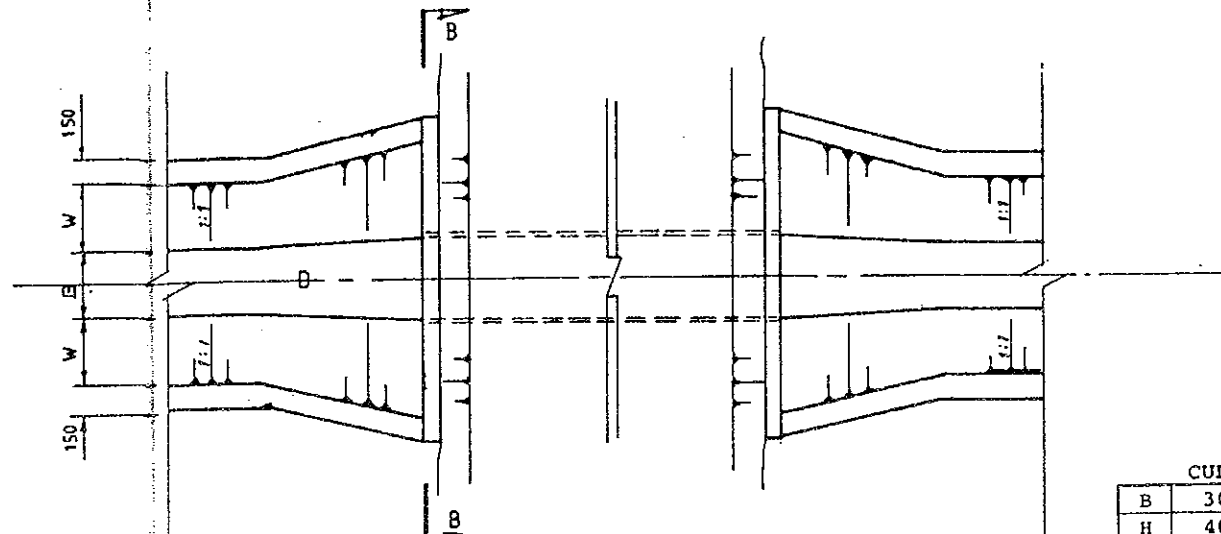


SECTION A-A

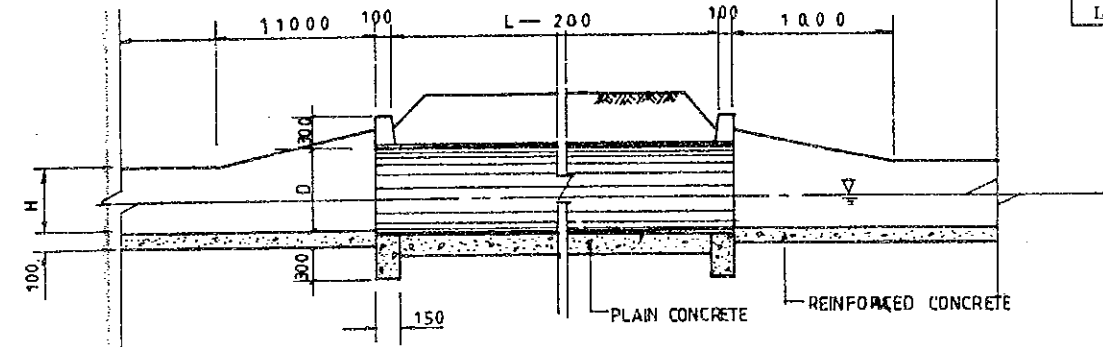


SECTION B-B

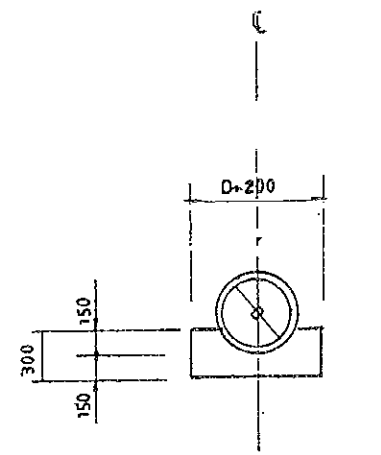
TYPE-B



PLAN

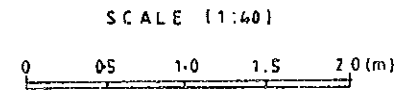


PROFILE



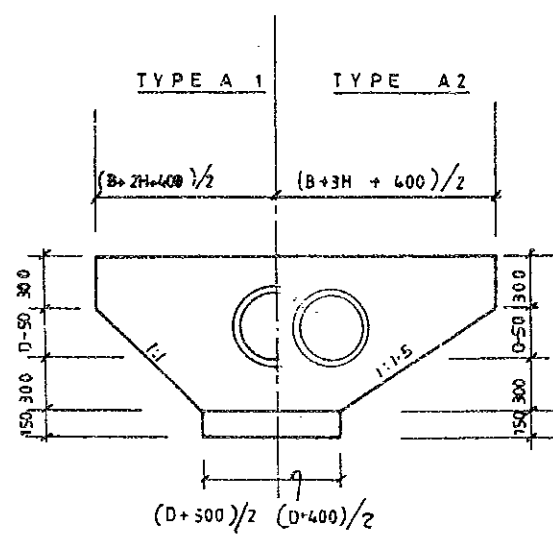
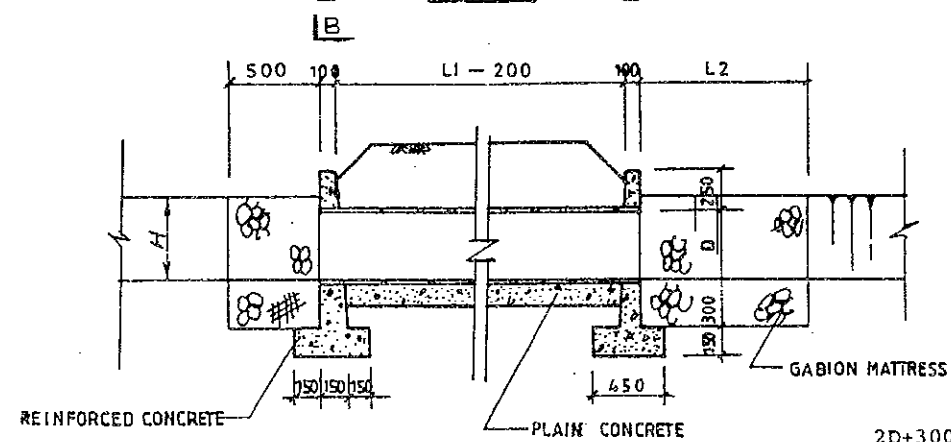
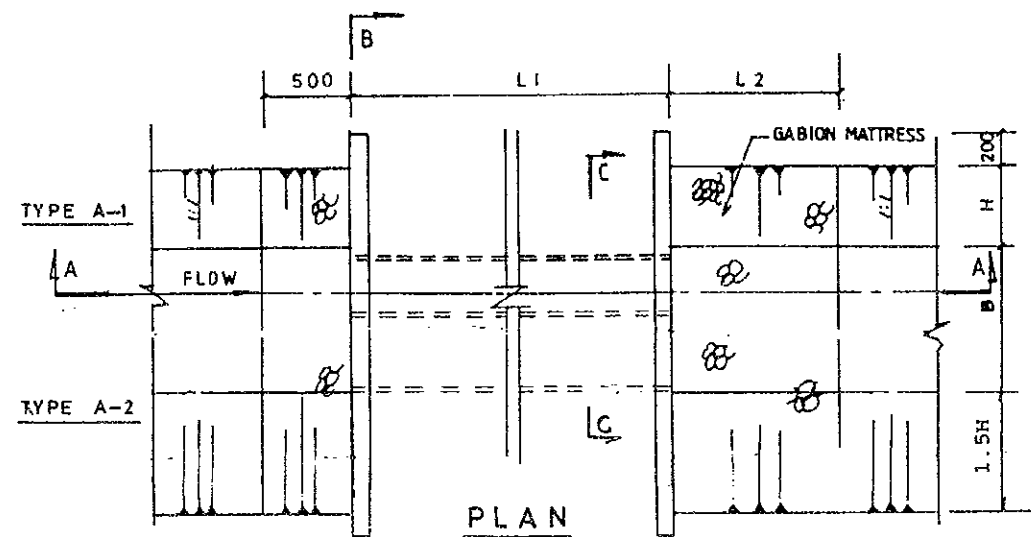
SECTION C-C

CULVERT	
B	300 - 600
H	400 - 700
D	300 - 600
L	4,000 - 6,000

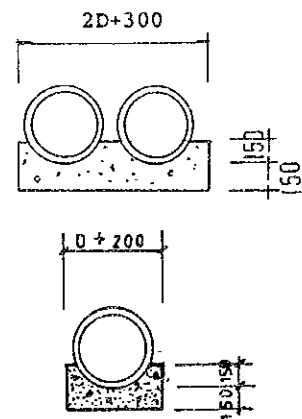


SCALE (1:40)

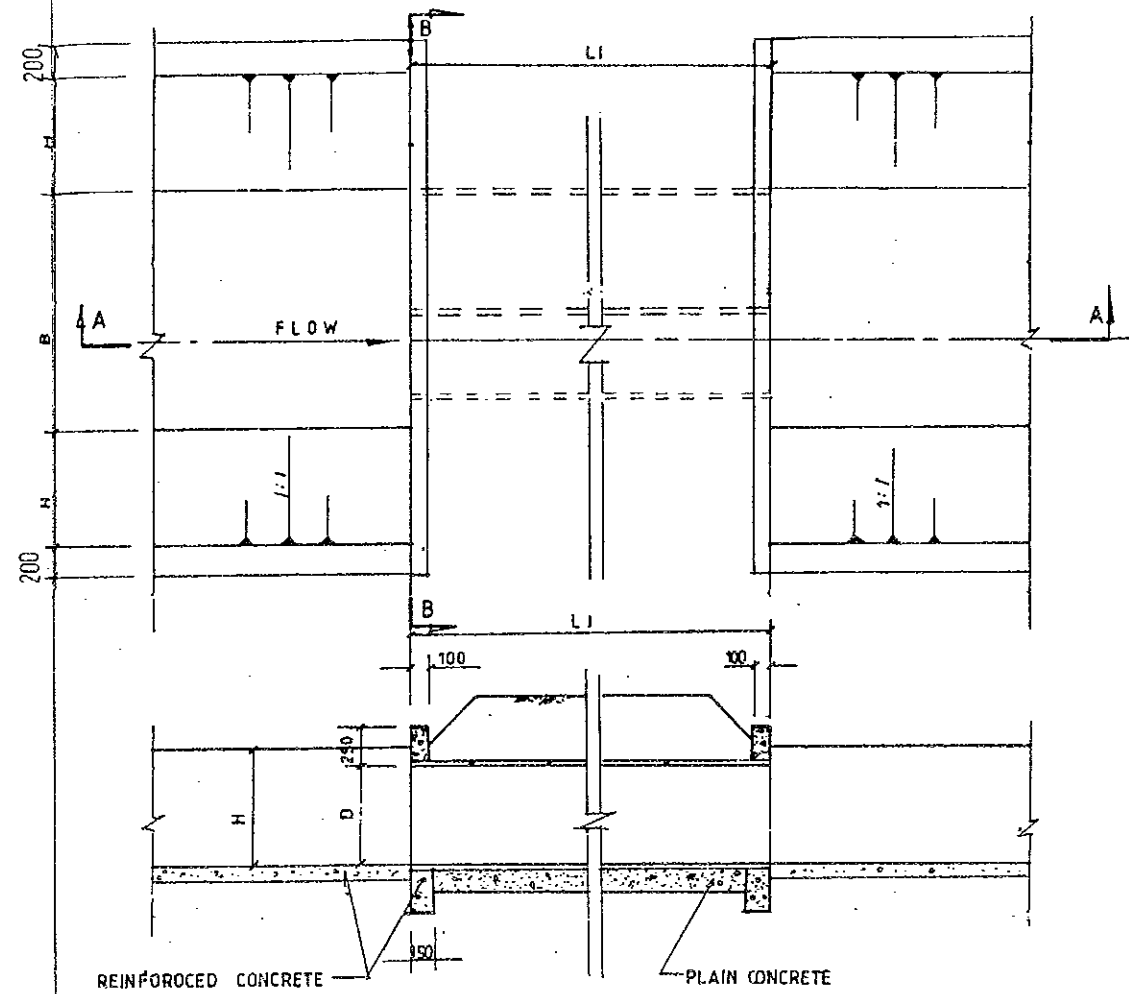
THE REPUBLIC OF GHANA			
THE STUDY			
ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
CULVERT, TYPE-A & -B			
DATE	DRAWING NO.	42 - CF-5	
JAPAN INTERNATIONAL COOPERATION AGENCY			



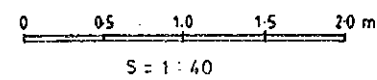
SECTION B-B



SECTION C-C

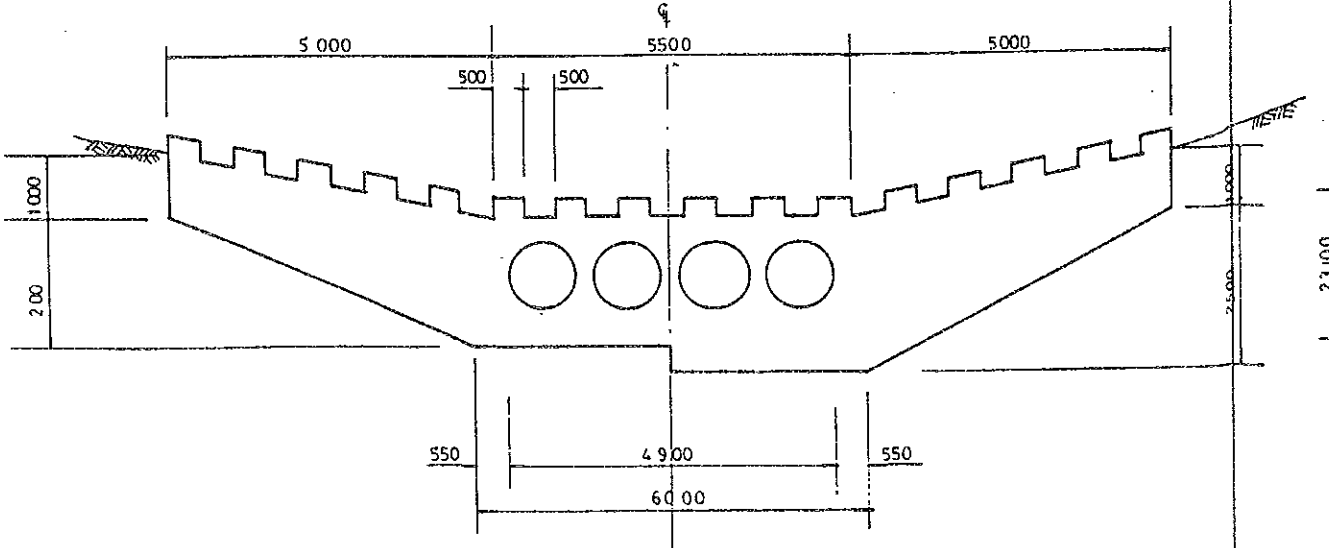
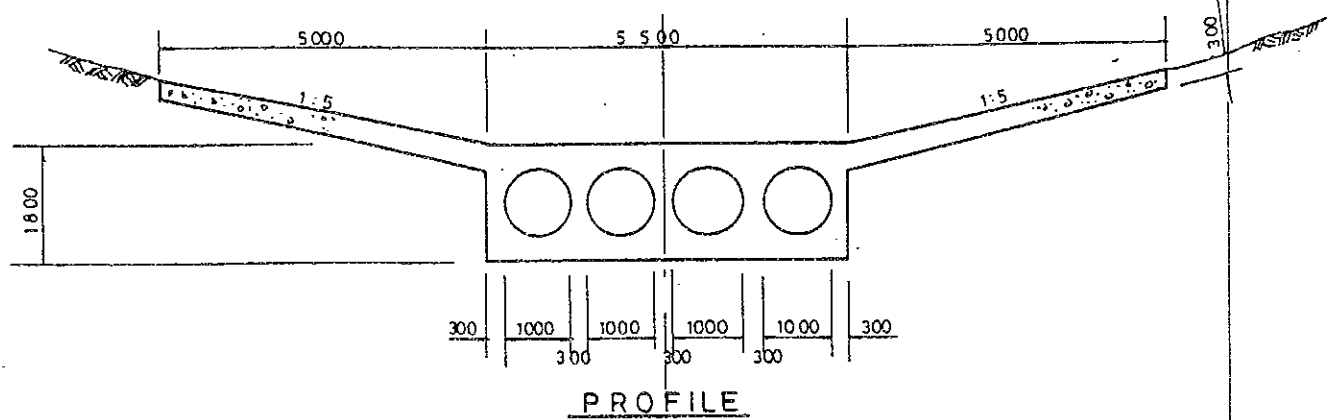
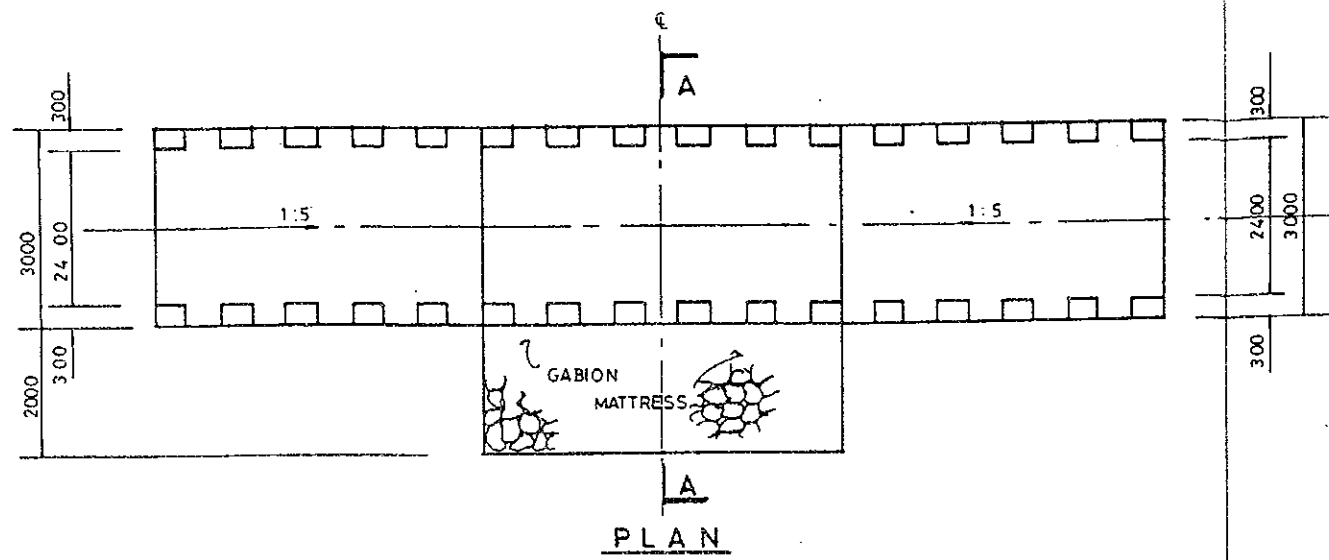


SECTION B-B

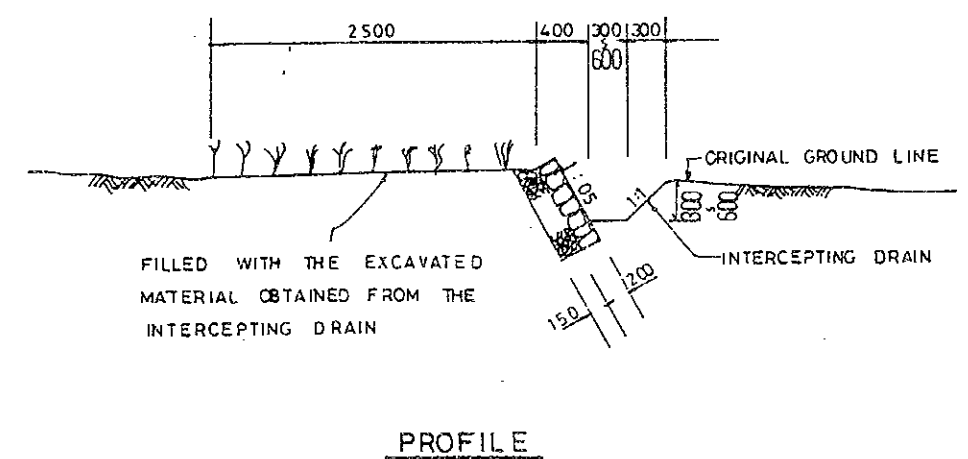
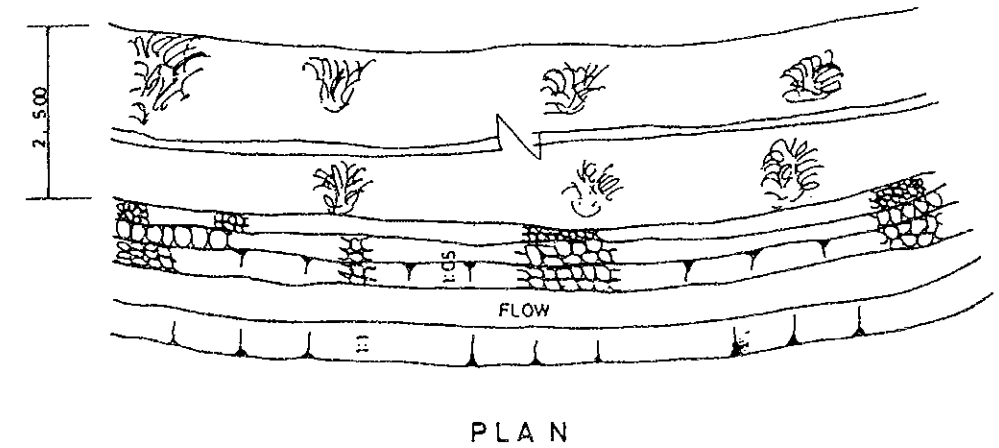


	CROSS DRAIN	
	TYPE-A	TYPE-B
L1	4,000-6,000	4,000-6,000
L2	1,000-3,000	-
B	300-4,000	300-1,000
H	300-1,000	600-800
D	300-900	600-800

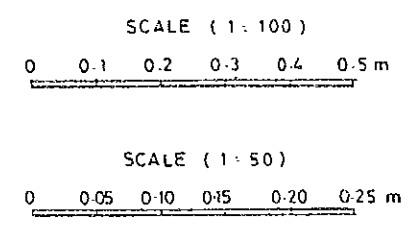
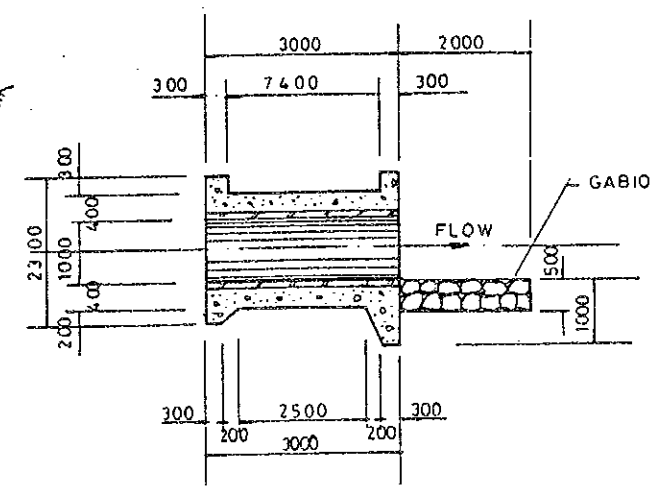
THE REPUBLIC OF GHANA			
THE STUDY			
ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
CROSS DRAIN, TYPE-A & -B			
DATE	DRAWING NO.	43 - CF-6	
JAPAN INTERNATIONAL COOPERATION AGENCY			



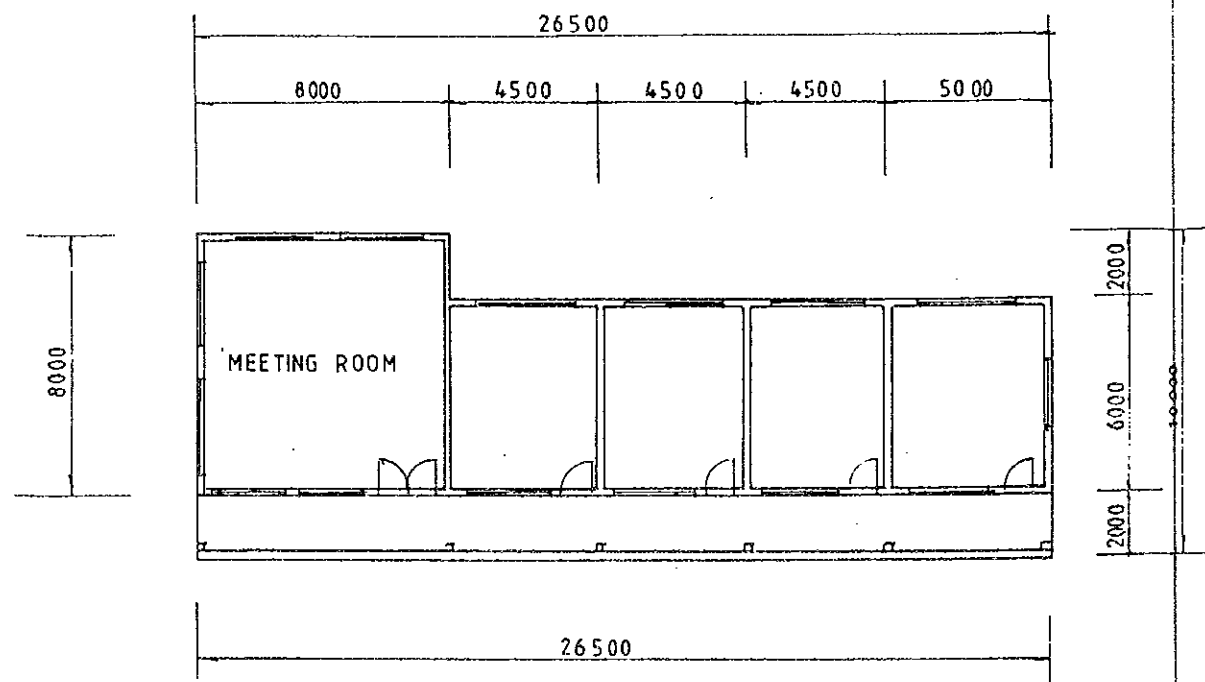
CAUSEWAY



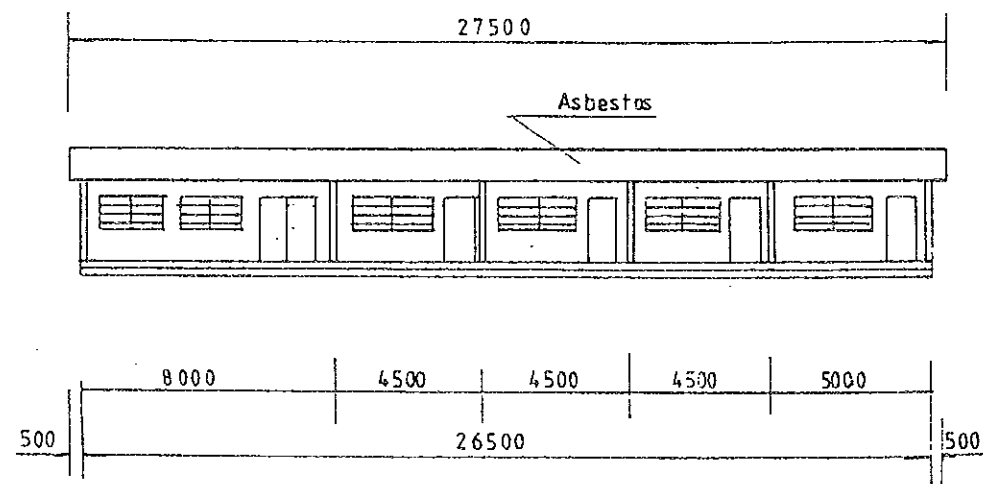
GREEN BELT



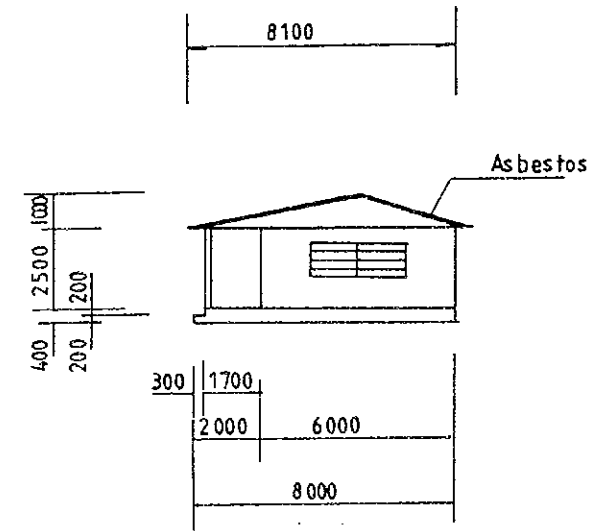
THE REPUBLIC OF GHANA			
THE STUDY			
ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
CAUSEWAY AND GREEN BELT			
DATE		DRAWING NO.	44 - CF-7
JAPAN INTERNATIONAL COOPERATION AGENCY			



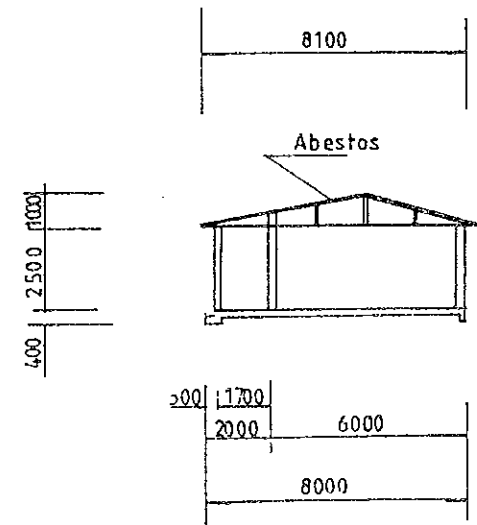
PLAN



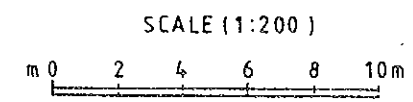
ELEVATION



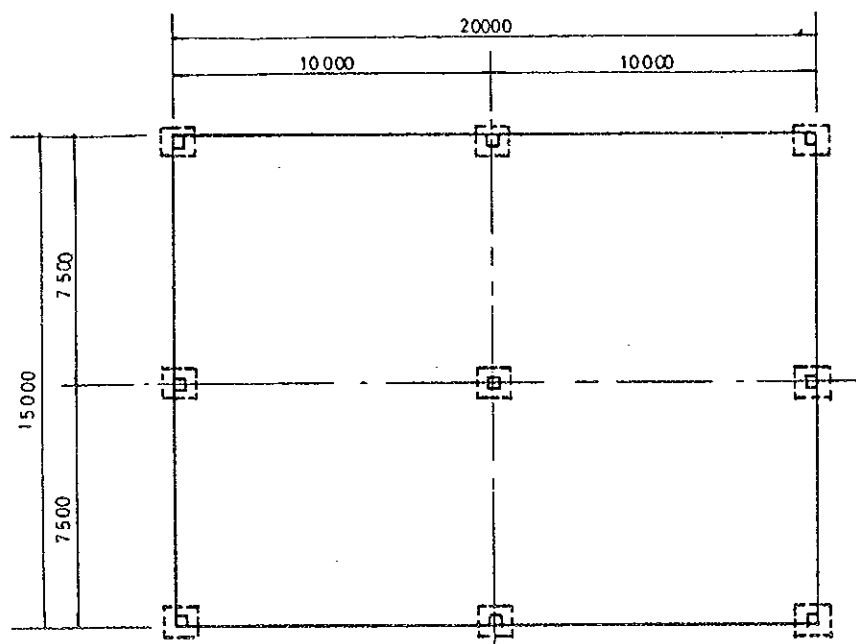
SITE ELEVATION



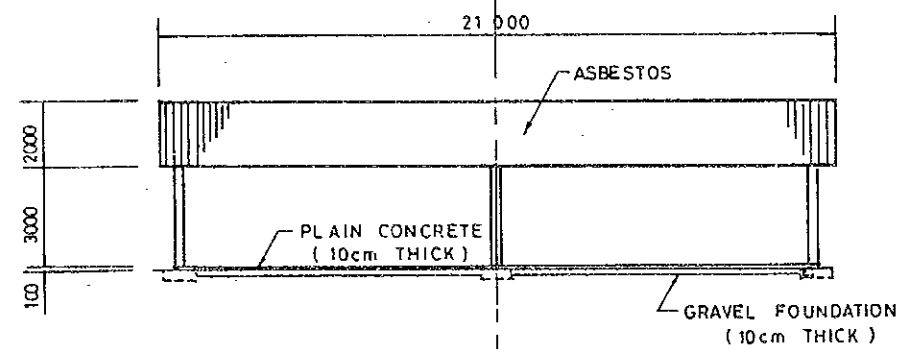
SECTION



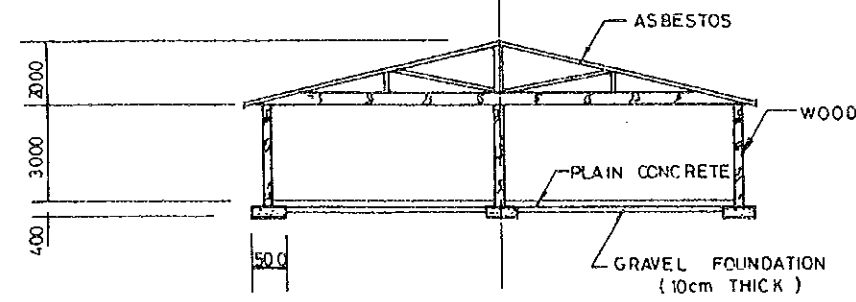
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
PROJECT OFFICE			
DATE		DRAWING NO.	45 - CF-8
JAPAN INTERNATIONAL COOPERATION AGENCY			



PLAN

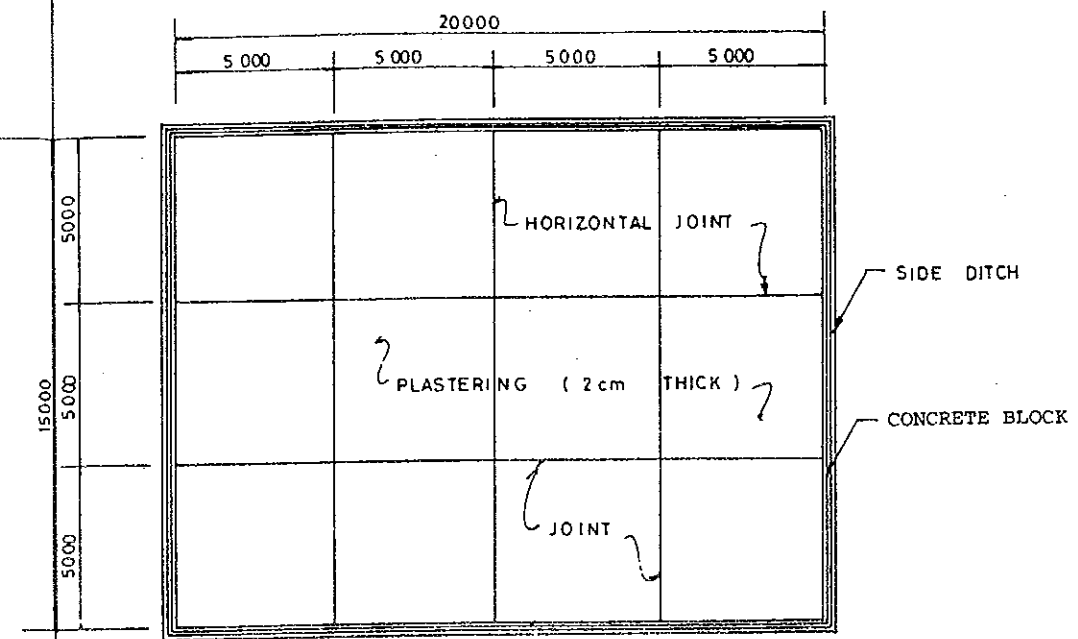


ELEVATION

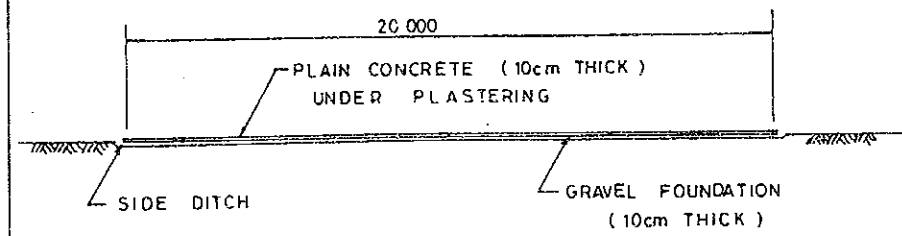


SIDE ELEVATION

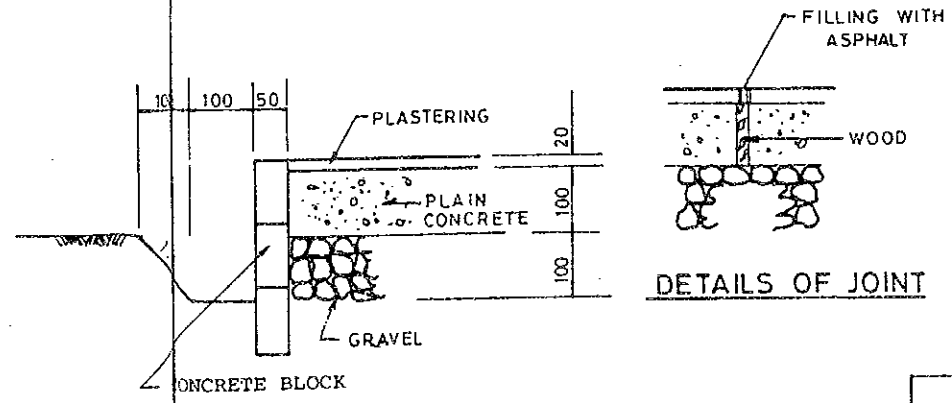
SORTER HOUSE



PLAN



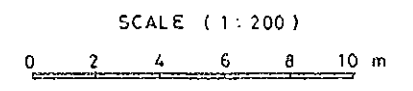
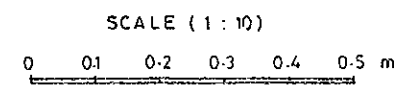
PROFILE



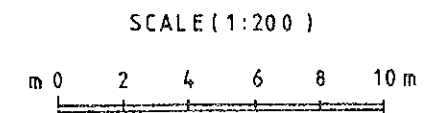
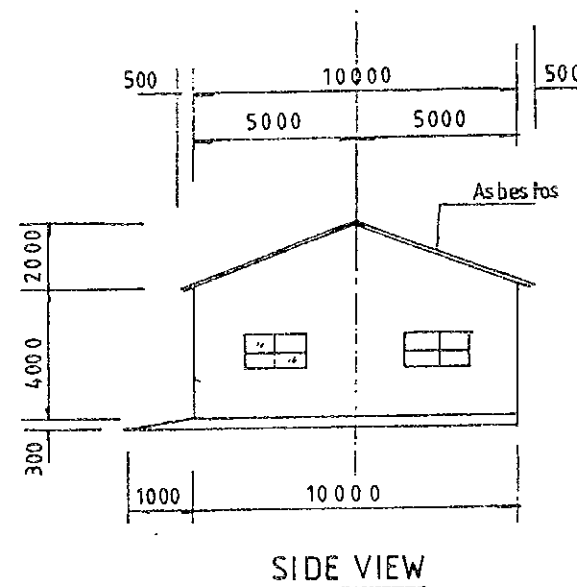
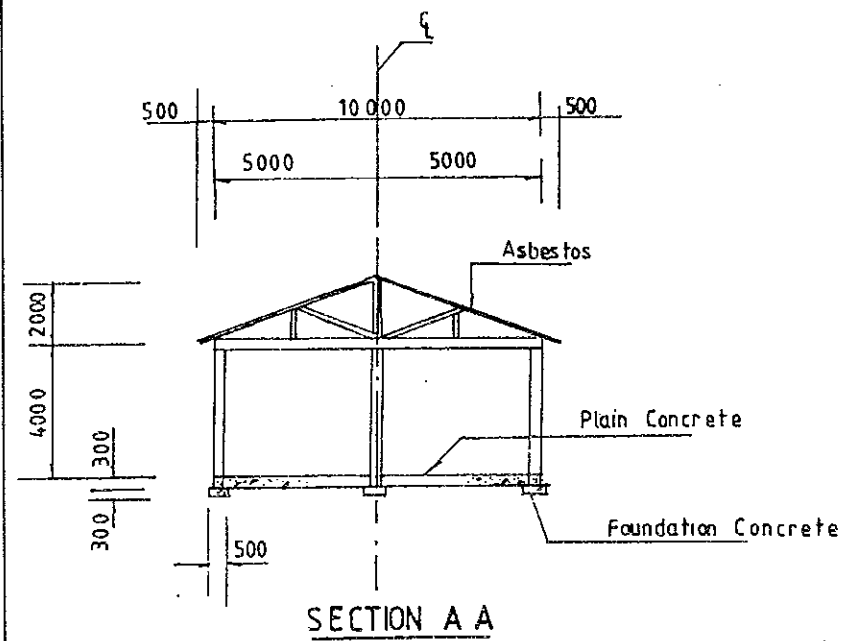
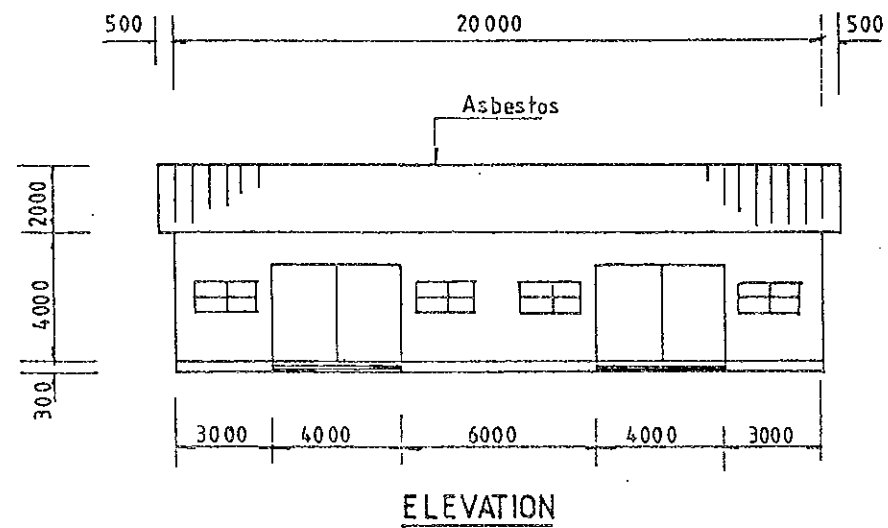
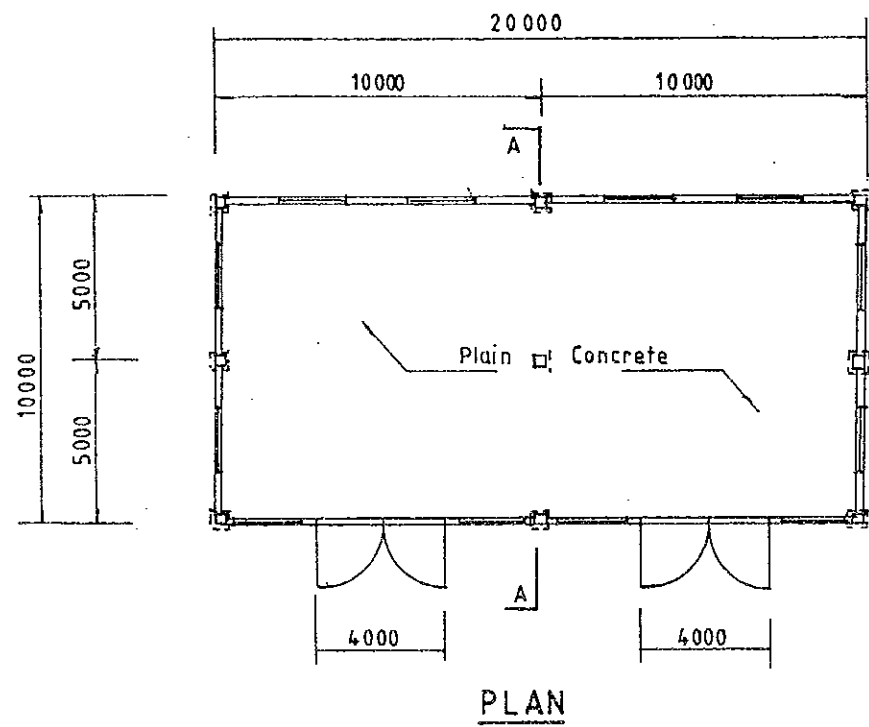
DETAILS OF JOINT

DETAILS OF SIDE DITCH

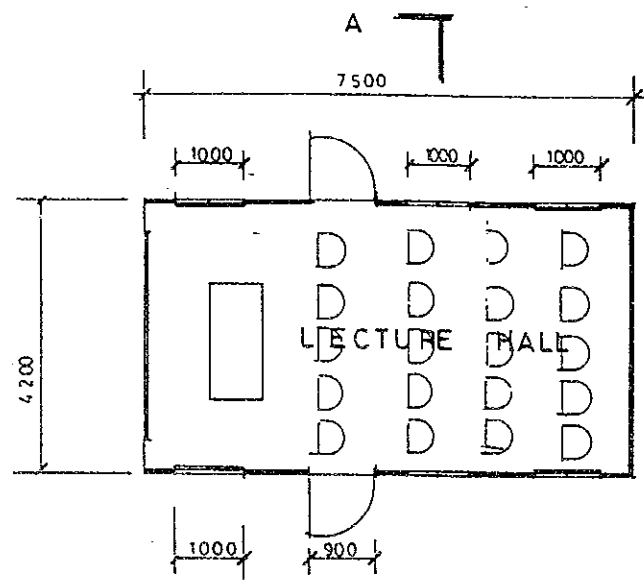
DRY YARD



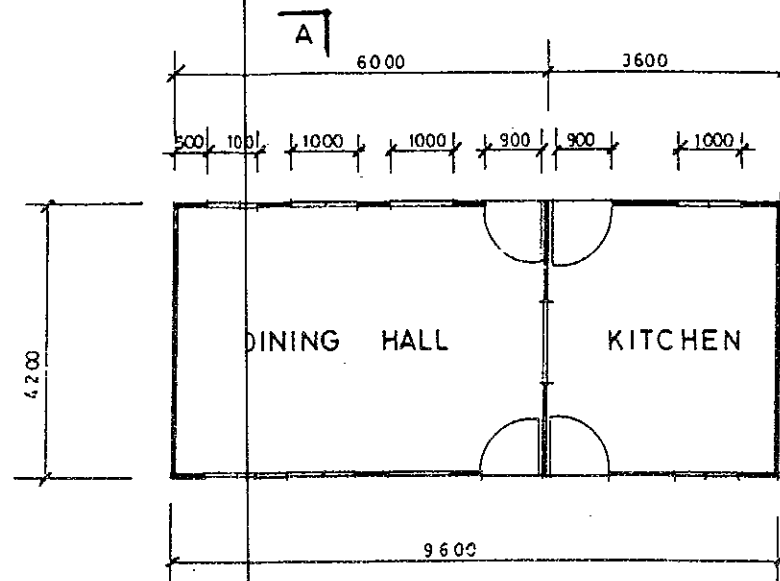
THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
DRY YARD AND SORTER HOUSE			
DATE		DRAWING NO.	46 - CF-9
JAPAN INTERNATIONAL COOPERATION AGENCY			



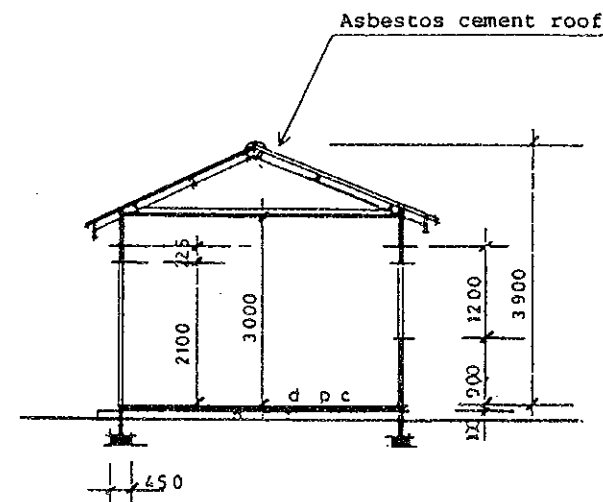
THE REPUBLIC OF GHANA		
THE STUDY ON		
THE REHABILITATION OF IRRIGATION PROJECTS		
TITLE OF DRAWING		COMMON FACILITY
STORE HOUSE		
DATE	DRAWING NO.	47 - CF-10
JAPAN INTERNATIONAL COOPERATION AGENCY		



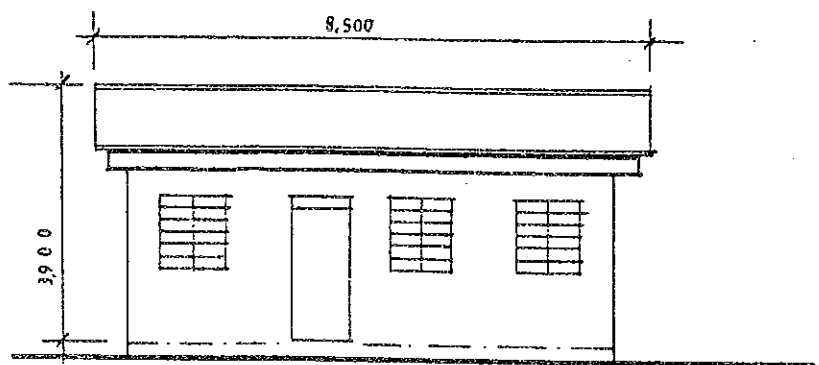
PLAN



PLAN

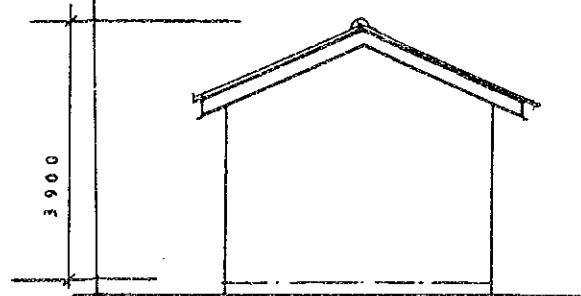


SECTION A-A



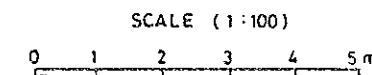
FRONT ELEVATION

LECTURE HALL



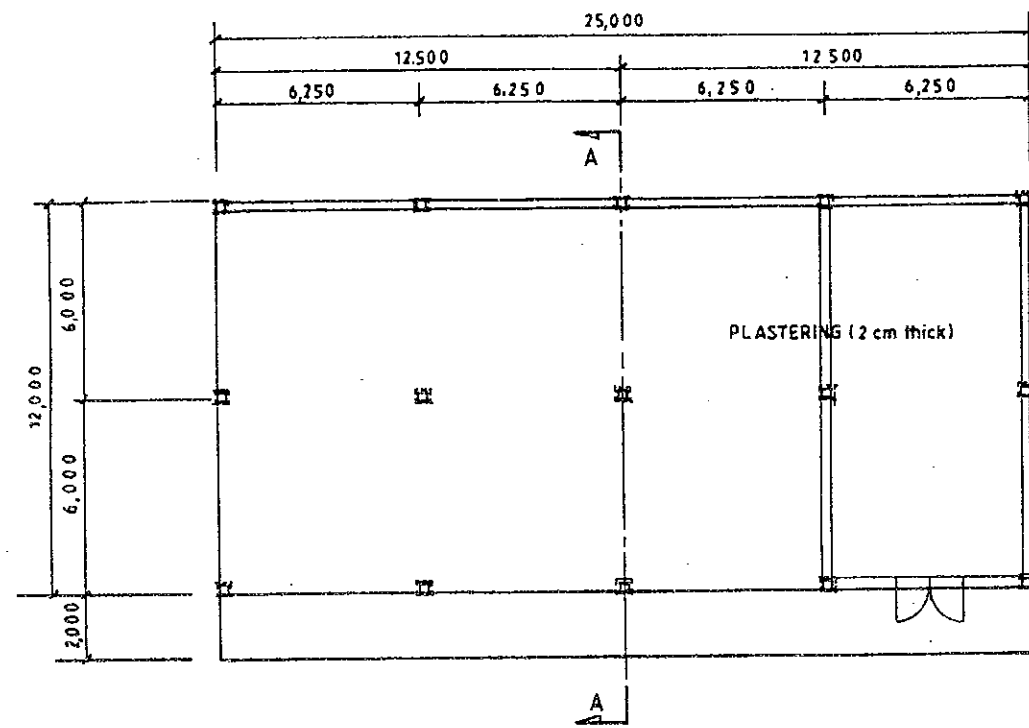
SIDE ELEVATION

DINNING HALL

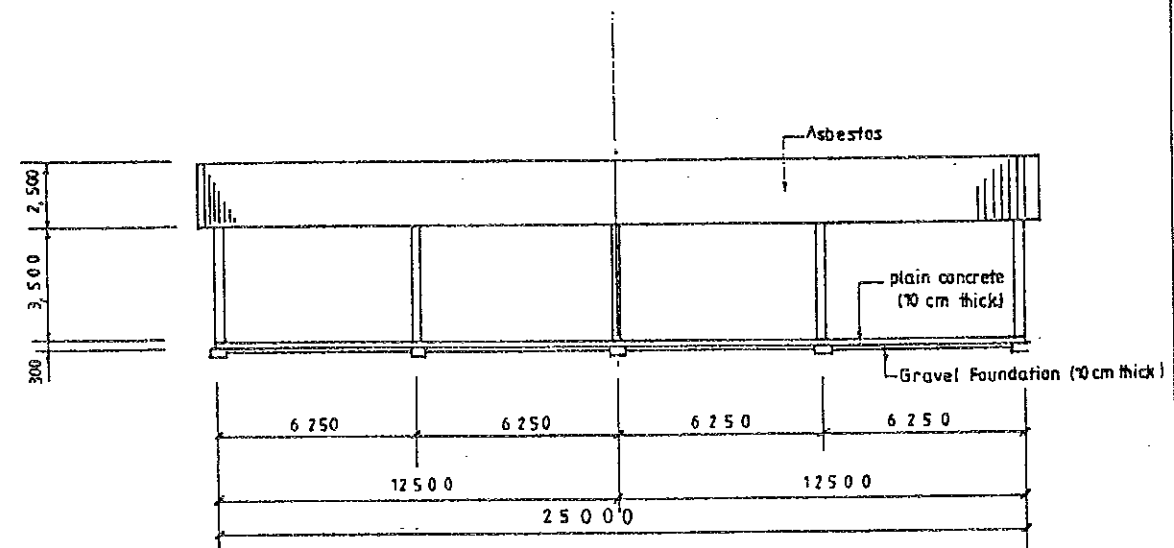


THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
LECTURE HALL AND DINNING HALL			
DATE		DRAWING NO.	48 - CF-11
JAPAN INTERNATIONAL COOPERATION AGENCY			

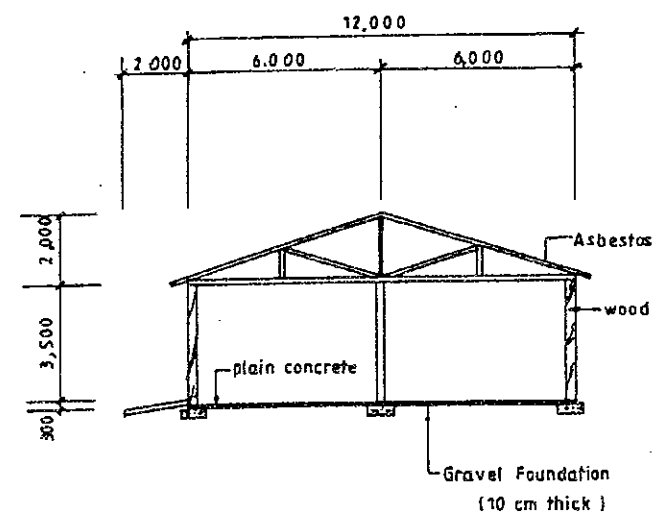




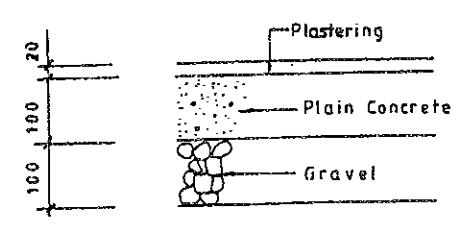
PLAN



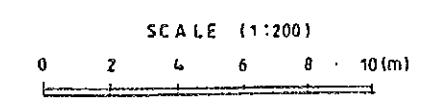
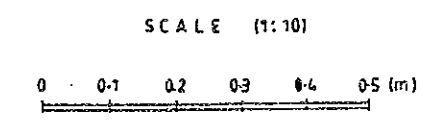
ELEVATION



SECTION A - A



DETAILS OF FOUNDATION



THE REPUBLIC OF GHANA			
THE STUDY ON			
THE REHABILITATION OF IRRIGATION PROJECTS			
TITLE OF DRAWING		COMMON FACILITY	
GARAGE			
DATE		DRAWING NO.	49 - CF-12
JAPAN INTERNATIONAL COOPERATION AGENCY			





JICA