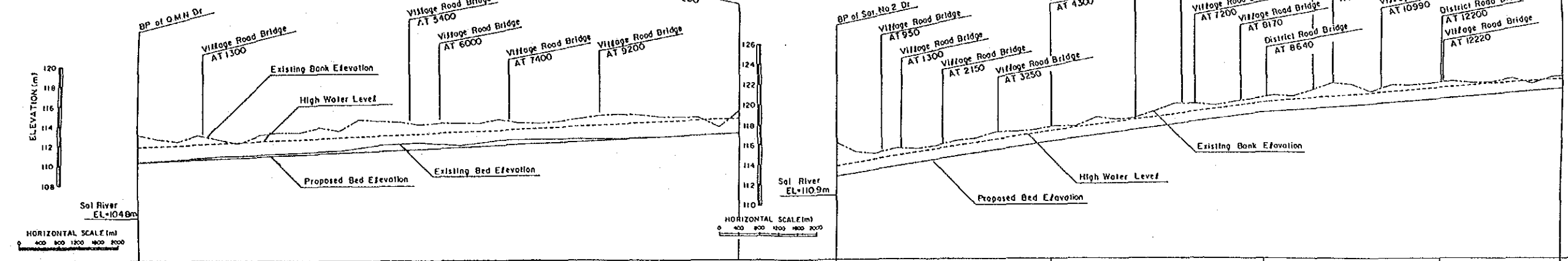


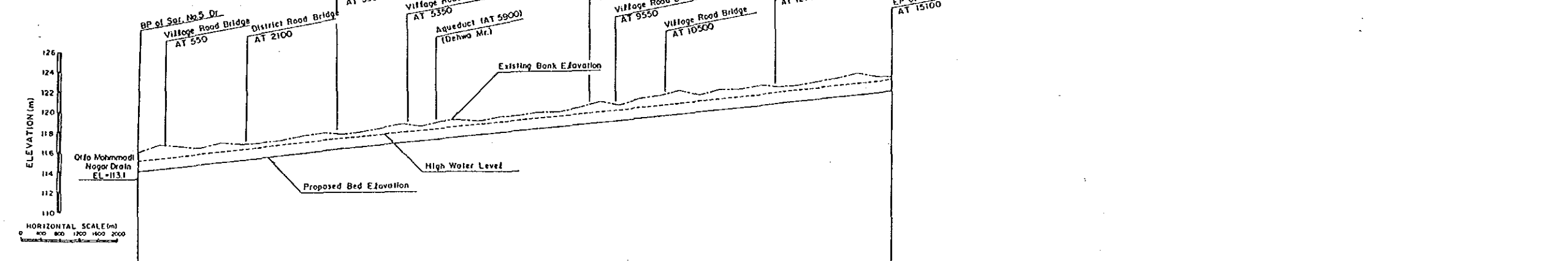
Oifa Mohmmadi Nagar Drainage Canal

Sar. No.2 Drainage Canal



		12.63 m³/sec										11.97 m³/sec										7.30 m³/sec					4.59 m³/sec					3.69 m³/sec					1.75 m³/sec									
DESIGN	DISCHARGE (cu-m)																																													
	HIGH WATER LEVEL	110.2	111.7									112.9	113.9									113.2	114.2				113.2	114.3				118.1	119.1				120.0	121.0				121.1	122.1			
	BED ELEVATION (M)	110.2	111.8									112.8	114.1									113.5	114.3				114.4	115.4				118.1	119.1				120.0	121.0				121.1	122.1			
BED SLOPE	1/4000										1/4200										1/1300					1/1500					1/2500															
EXISTING	DISCHARGE (cu-m)																																													
	BED ELEVATION (M)	110.3	110.6	110.9	111.1	112.6	111.3	111.5	112.1	112.6	112.7	112.8	112.8	112.8	112.9	113.0	113.4																													
	BED SLOPE																																													
REDUCED DISTANCE (M)	0	400	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800	5200	5600	6000	6400	6800	7200	7600	8000	8400	8800	9200	9600	10000	10400	10800	11200	11600	12000															

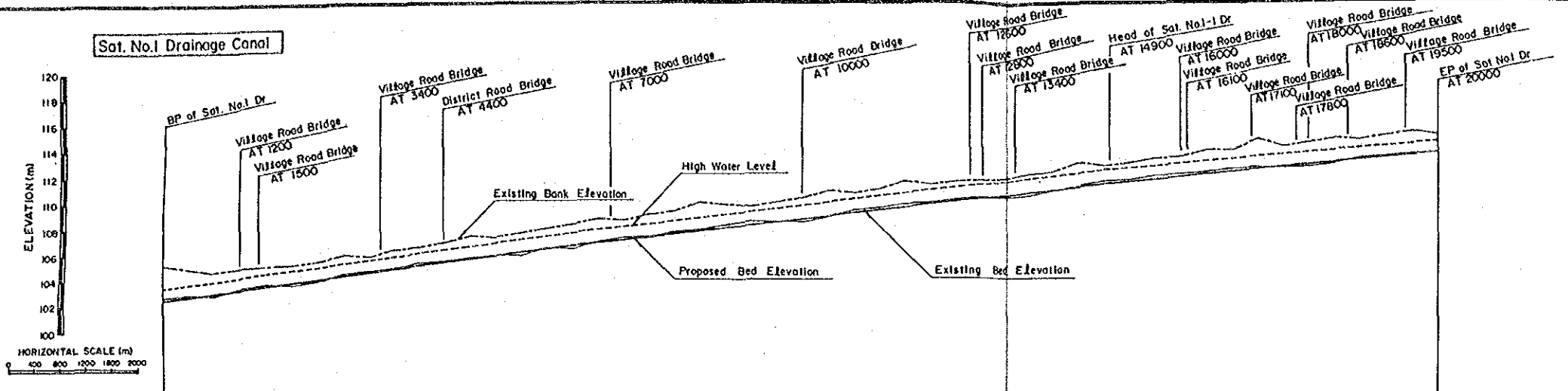
Sar. No.5 Drainage Canal



		6.78 m³/sec								5.93 m³/sec								4.40 m³/sec								1.98 m³/sec																															
DESIGN	DISCHARGE (cu-m)																																																								
	HIGH WATER LEVEL	114.1	115.1							118.6	119.8							120.0	121.0					121.0	122.0					121.4	122.4																										
	BED ELEVATION (M)	114.1	115.1							118.6	119.8							119.4	120.4					119.6	120.6					119.6	120.6																										
BED SLOPE	1/1800								1/2000																																																
EXISTING	DISCHARGE (cu-m)																																																								
	BED ELEVATION (M)	115.9	116.7	117.1	117.1	117.2	117.2	117.8	117.8	118.0	118.4	118.4	118.6	118.6	118.8	119.0	119.2	119.4	119.4	119.6	119.6	119.8	119.8	120.0	120.0	120.2	120.2	120.4	120.4	120.6	120.6	120.8	120.8	121.0	121.0	121.2	121.2	121.4	121.4	121.6	121.6	121.8	121.8	122.0	122.0	122.2	122.2	122.4	122.4	122.6	122.6	122.8	122.8	123.0	123.0	123.2	123.2
	BED SLOPE																																																								
REDUCED DISTANCE (M)	0	400	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800	5200	5600	6000	6400	6800	7200	7600	8000	8400	8800	9200	9600	10000	10400	10800	11200	11600	12000	12400	12800	13200	13600	14000	14400	14800	15000																		

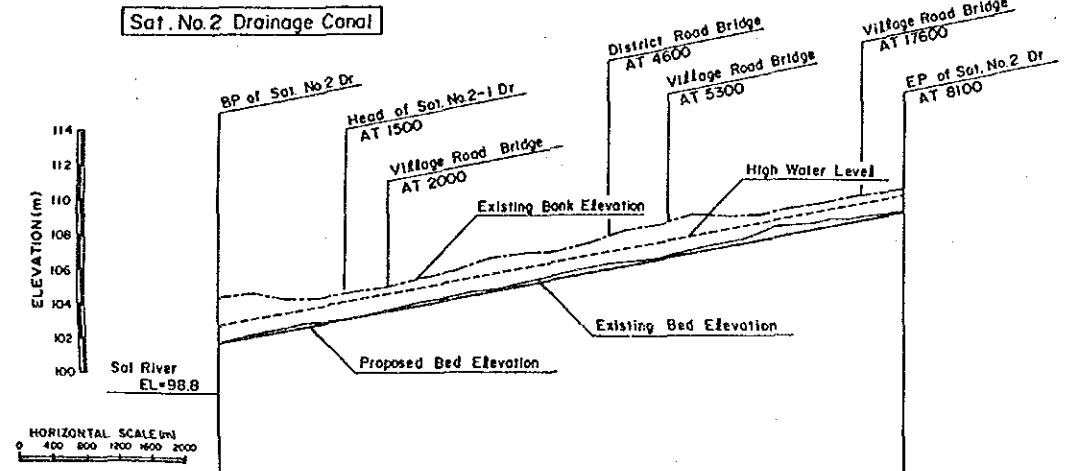
INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE:
 PROFILE OF MAIN DRAINAGE CANALS
 IN SAROJINI NAGAR AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY

Sat. No.1 Drainage Canal



DESIGN	DISCHARGE (cu-m)	11.81 m ³ /sec											11.05 m ³ /sec											68 m ³ /sec											355 m ³ /sec											2.10 m ³ /sec																															
	HIGH WATER LEVELM	102.3											102.6											102.8											103.0											103.2											103.4																				
	BED ELEVATION M	102.3											102.6											102.8											103.0											103.2											103.4																				
	BED SLOPE	1/500											1/600											1/200											1/200											1/200																															
EXISTING	DISCHARGE (cu-m)																																																																												
	BED ELEVATION M	102.4											102.8											103.5											103.6											103.5											103.9																				
	BED SLOPE																																																																												
	ORIGINAL GROUND LEVELM	105.1											104.7											104.5											104.8											104.9											105.0											105.3									
REDUCED DISTANCE M	0											400											800											1200											1600											2000											2400										

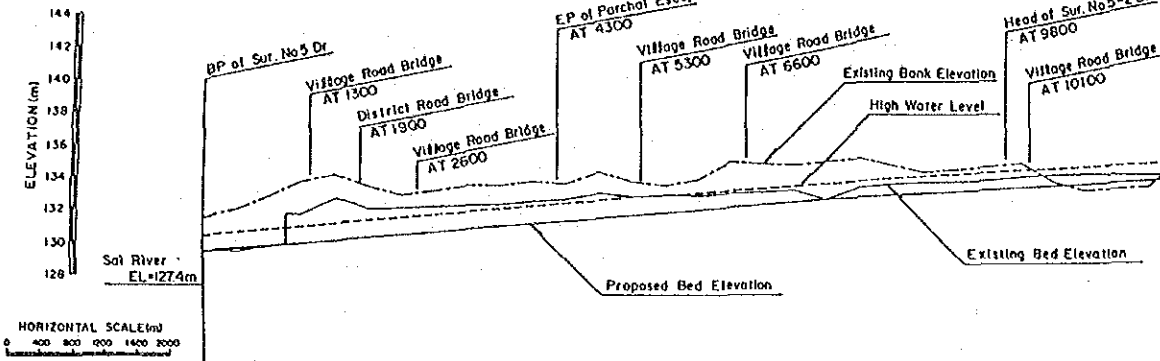
Sat. No.2 Drainage Canal



DESIGN	DISCHARGE (cu-m)	462m ³ /sec				3.23m ³ /sec				2.53m ³ /sec														
	HIGH WATER LEVELM	101.7				103.1				103.4				103.8				104.2						
	BED ELEVATION M	101.7				102.1				102.4				102.8				103.2						
	BED SLOPE	1/1100				1/1100				1/1100				1/1100										
EXISTING	DISCHARGE (cu-m)	350m ³ /sec				325m ³ /sec				300m ³ /sec				200m ³ /sec				175m ³ /sec						
	BED ELEVATION M	101.8				102.2				102.6				102.9				103.2						
	BED SLOPE	1/1100				1/1100				1/1100				1/1100										
	ORIGINAL GROUND LEVELM	104.3				104.6				104.2				104.3				104.5						
REDUCED DISTANCE M	0				400				800				1200				1600				2000			

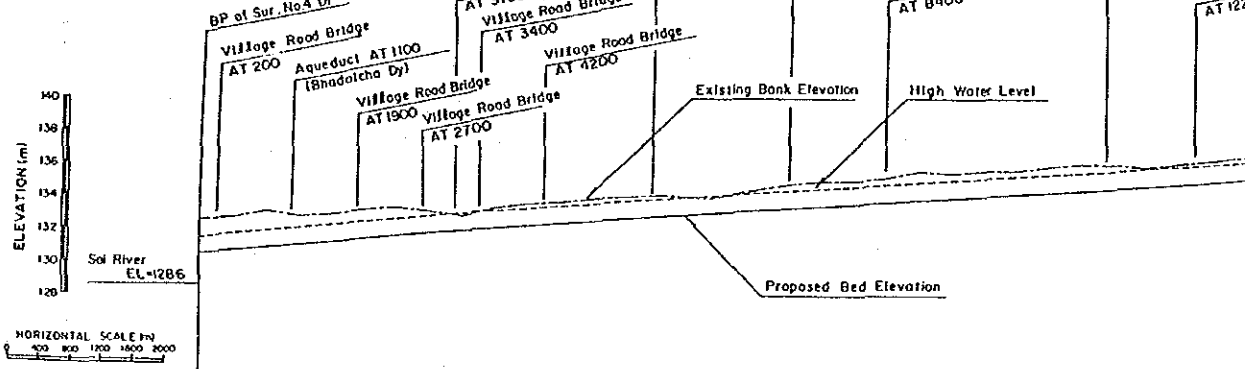
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE:
PROFILE OF MAIN DRAINAGE CANALS IN SATEON AREA
JAPAN INTERNATIONAL COOPERATION AGENCY

Sur. No.5 Drainage Canal



DESIGN	17.41 m ³ /sec				12.72 m ³ /sec				11.69 m ³ /sec				8.69 m ³ /sec				8.05 m ³ /sec				4.98 m ³ /sec				3.68 m ³ /sec				2.29 m ³ /sec							
	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE				
EXISTING	129.4	129.4	129.5	1/2200	129.4	129.4	129.5	1/2200	129.4	129.4	129.5	1/2200	129.4	129.4	129.5	1/2200	129.4	129.4	129.5	1/2200	129.4	129.4	129.5	1/2200	129.4	129.4	129.5	1/2200	129.4	129.4	129.5	1/2200	129.4	129.4	129.5	1/2200
	129.4	129.4	129.5		129.4	129.4	129.5		129.4	129.4	129.5		129.4	129.4	129.5		129.4	129.4	129.5		129.4	129.4	129.5		129.4	129.4	129.5		129.4	129.4	129.5		129.4	129.4	129.5	
REDUCED DISTANCE M	0	400	800		1200	1600	2000		2400	2800	3200		3600	4000	4400		4800	5200	5600		6000	6400	6800		7200	7600	8000		8400	8800	9200		9600	10000	10400	
	131.5	131.9	132.8		133.3	133.7	134.1		134.4	134.7	135.0		135.3	135.6	135.9		136.2	136.5	136.8		137.1	137.4	137.7		138.0	138.3	138.6		138.9	139.2	139.5		139.8	140.1	140.4	

Sur. No.4 Drainage Canal



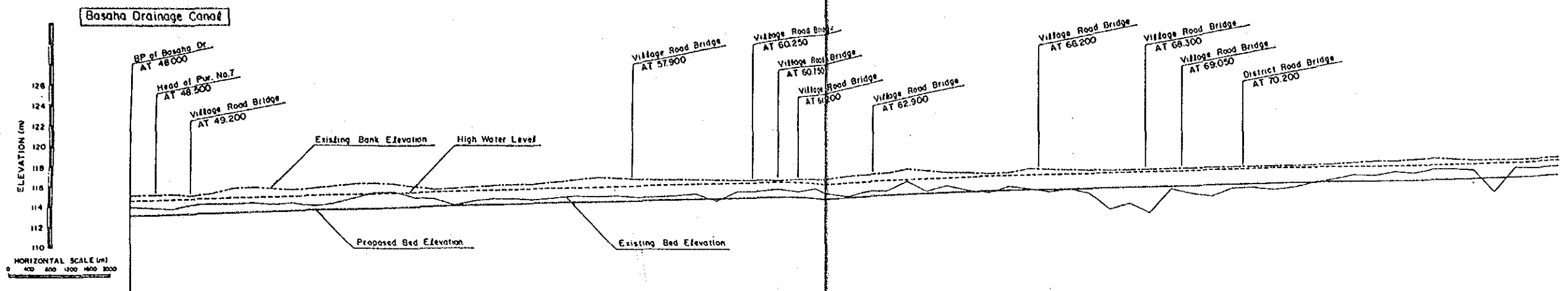
DESIGN	7.15 m ³ /sec				6.48 m ³ /sec				4.74 m ³ /sec				3.01 m ³ /sec			
	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE	DISCHARGE (cu-m)	HIGH WATER LEVELM	BED ELEVATION M	BED SLOPE
EXISTING	130.5	130.7	130.9	1/2200	131.1	131.2	131.4	1/2600	131.6	131.7	131.9	1/3000	132.4	132.5	132.7	1/3000
	130.5	130.7	130.9		131.1	131.2	131.4		131.6	131.7	131.9		132.4	132.5	132.7	
REDUCED DISTANCE M	0	400	800		1200	1600	2000		2400	2800	3200		3600	4000	4400	
	132.4	132.6	132.9		133.2	133.5	133.8		134.1	134.4	134.7		135.0	135.3	135.6	

INDIA
FEASIBILITY STUDY ON
IRRIGATION AND DRAINAGE DEVELOPMENT OF
SHARDA CANAL CAD PROJECT

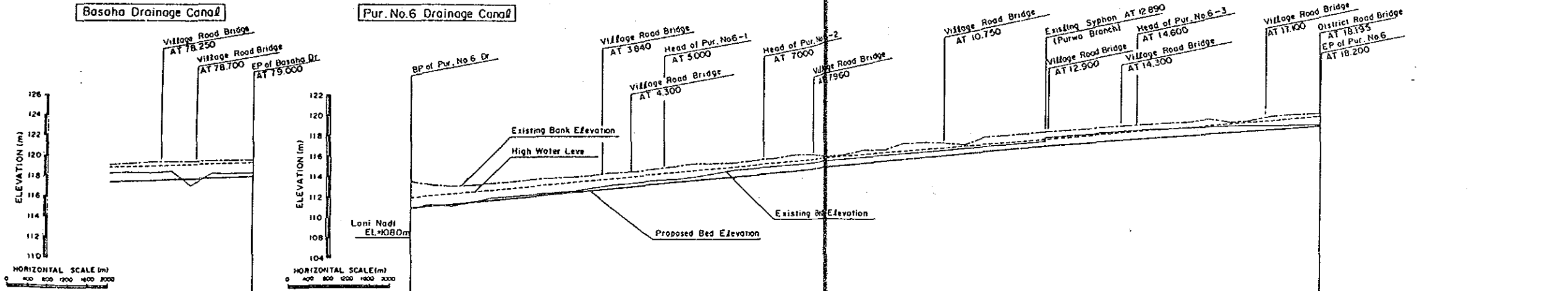
TITLE:

PROFILE OF MAIN DRAINAGE CANALS
IN SURSA AREA

JAPAN INTERNATIONAL COOPERATION AGENCY

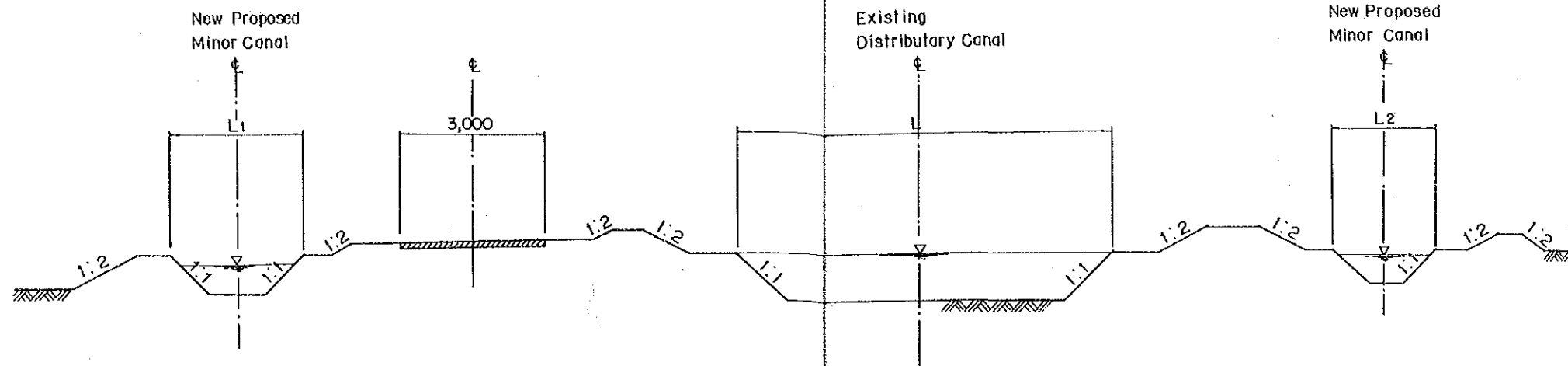


DESIGN	DISCHARGE (cu-m)	19.64 m ³ /sec										16.95 m ³ /sec										10.00 m ³ /sec										4.31 m ³ /sec																			
	HIGH WATER LEVEL	[Elevation data for High Water Level]																																																	
EXISTING	DISCHARGE (cu-m)	15.00 m ³ /sec					12.17 m ³ /sec					10.75 m ³ /sec					9.91 m ³ /sec					9.06 m ³ /sec					7.36 m ³ /sec					3.11 m ³ /sec					2.69 m ³ /sec					2.21 m ³ /sec					1.90 m ³ /sec				
	HIGH WATER LEVEL	[Elevation data for High Water Level]																																																	
BED ELEVATION	[Elevation data for Bed Elevation]																																																		
BED SLOPE	[Slope data]																																																		
ORIGINAL GROUND LEVEL	[Elevation data for Original Ground Level]																																																		
REDUCED DISTANCE	[Distance data]																																																		

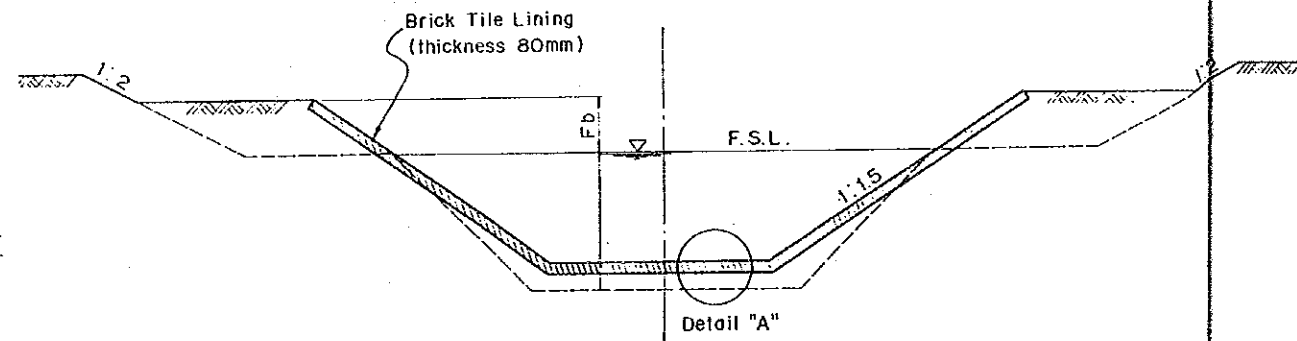


DESIGN	DISCHARGE (cu-m)	8.13 m ³ /sec										7.89 m ³ /sec										6.17 m ³ /sec										4.82 m ³ /sec										4.00 m ³ /sec										2.99 m ³ /sec										1.69 m ³ /sec									
	HIGH WATER LEVEL	[Elevation data for High Water Level]																																																																					
EXISTING	DISCHARGE (cu-m)	1.90 m ³ /sec					1.71 m ³ /sec					1.30 m ³ /sec					1.02 m ³ /sec					0.74 m ³ /sec					0.59 m ³ /sec					0.38 m ³ /sec																																							
	HIGH WATER LEVEL	[Elevation data for High Water Level]																																																																					
BED ELEVATION	[Elevation data for Bed Elevation]																																																																						
BED SLOPE	[Slope data]																																																																						
ORIGINAL GROUND LEVEL	[Elevation data for Original Ground Level]																																																																						
REDUCED DISTANCE	[Distance data]																																																																						

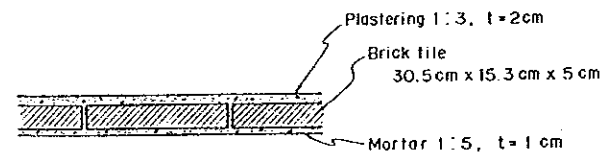
INDIA
FEASIBILITY STUDY ON
IRRIGATION AND DRAINAGE DEVELOPMENT OF
SHARDA CANAL CAD PROJECT
TITLE:
PROFILE OF MAIN DRAINAGE CANALS
IN PURWA AREA
JAPAN INTERNATIONAL COOPERATION AGENCY



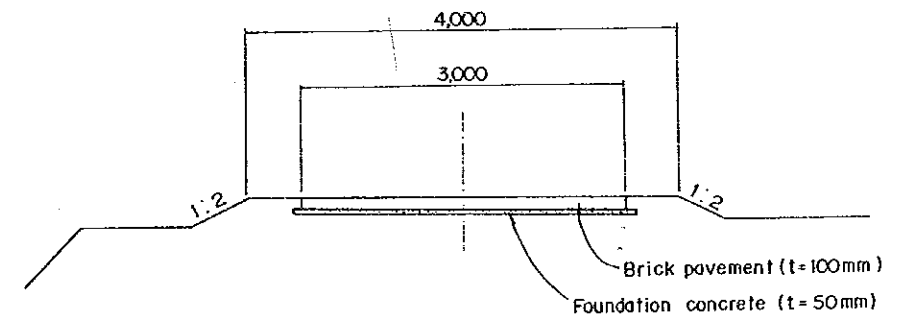
TYPICAL CROSS SECTION OF DISTRIBUTARY AND MINOR CANAL



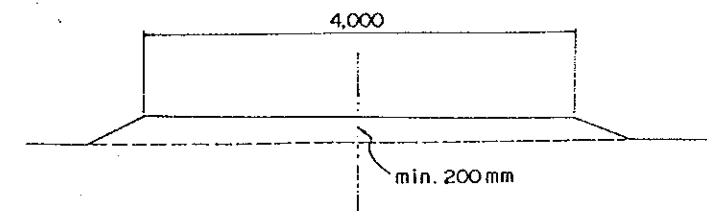
TYPICAL CROSS SECTION OF LINING CANAL



DETAIL "A"

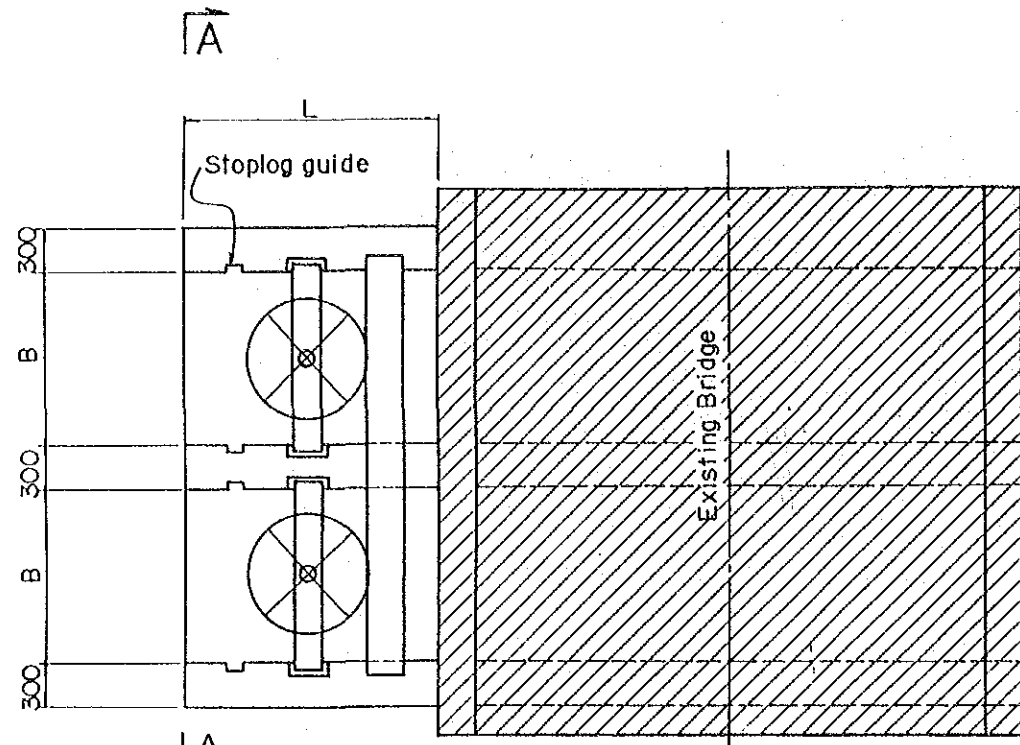


INSPECTION ROAD ALONG DISTRIBUTARY CANAL

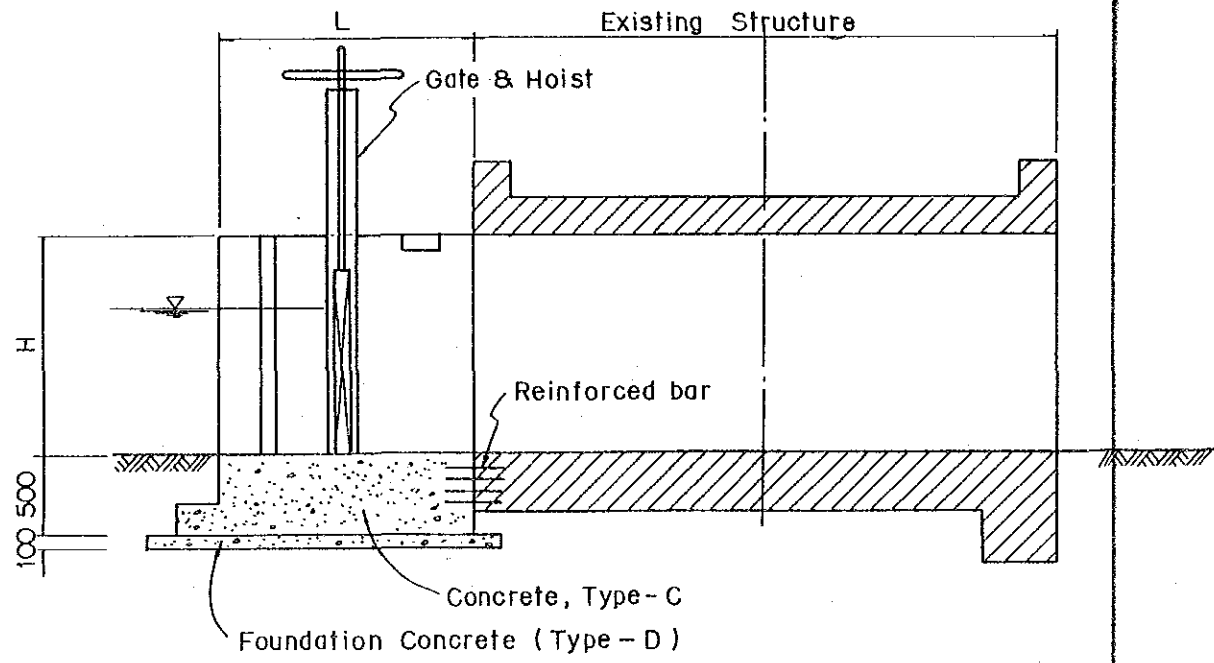


INSPECTION ROAD ALONG MINOR CANAL AND FARM ROAD (CHAK ROAD)

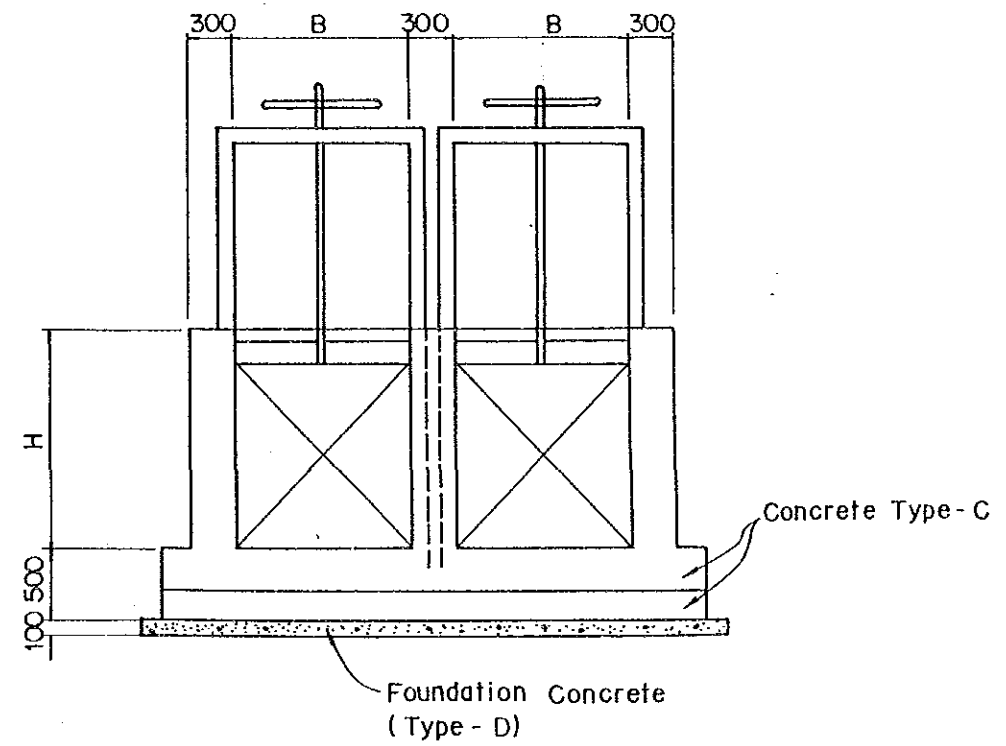
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE: TYPICAL CROSS SECTION OF CANAL, DRAIN AND FARM ROAD
JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN

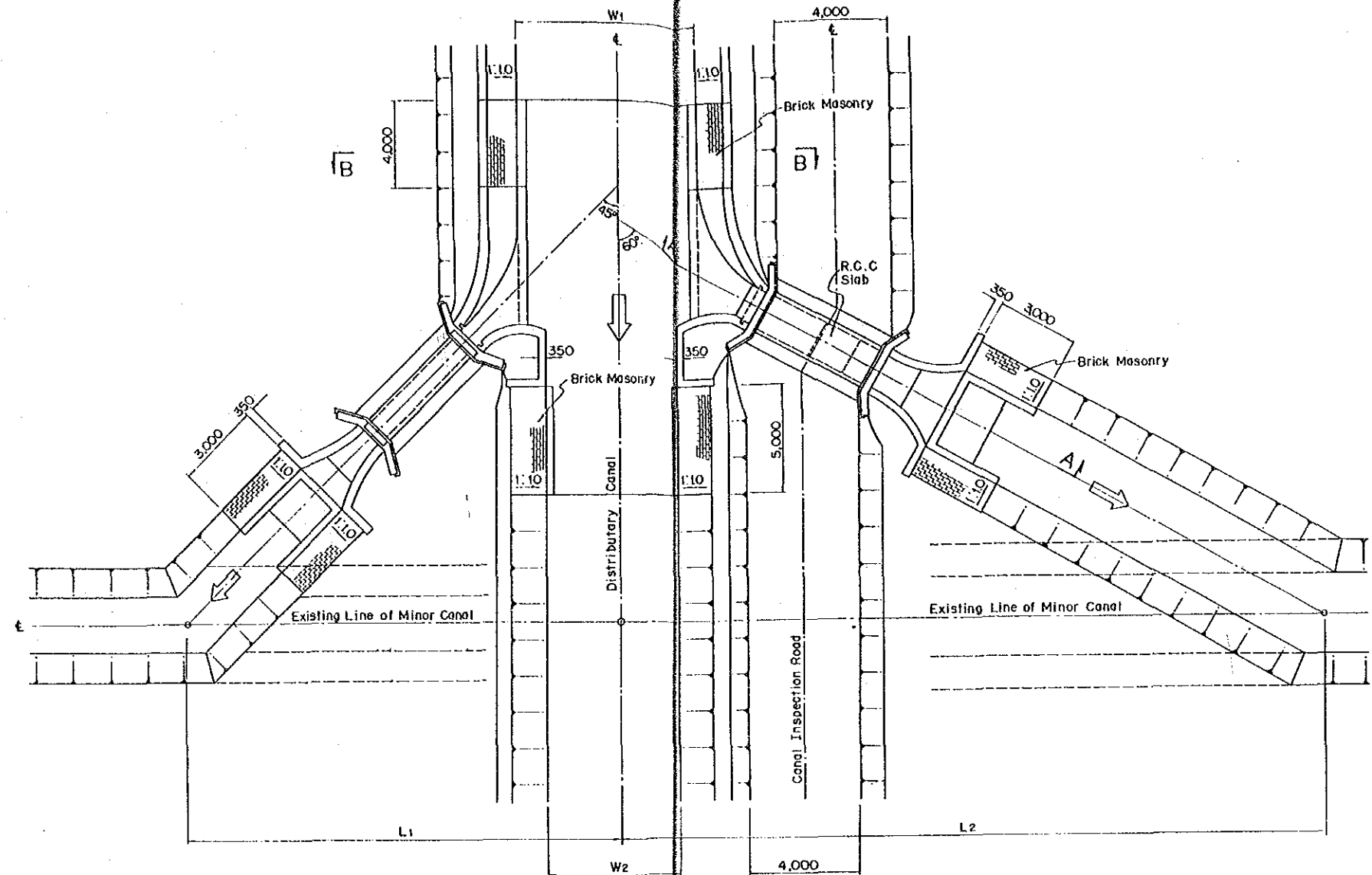


PROFILE

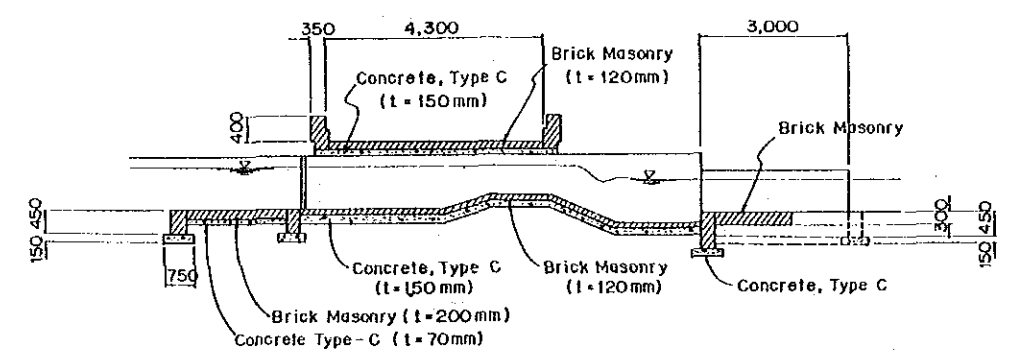


SECTION A-A

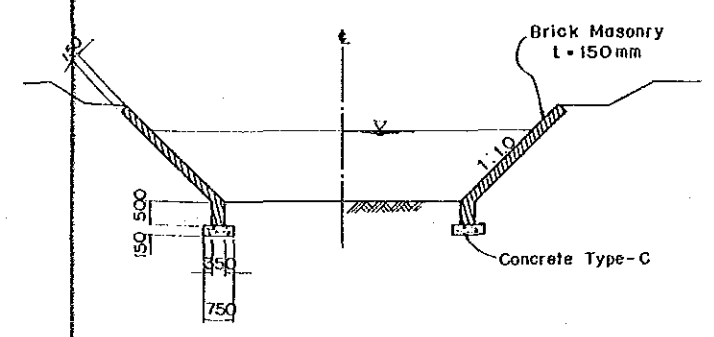
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE :
HEAD REGULATOR
JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN

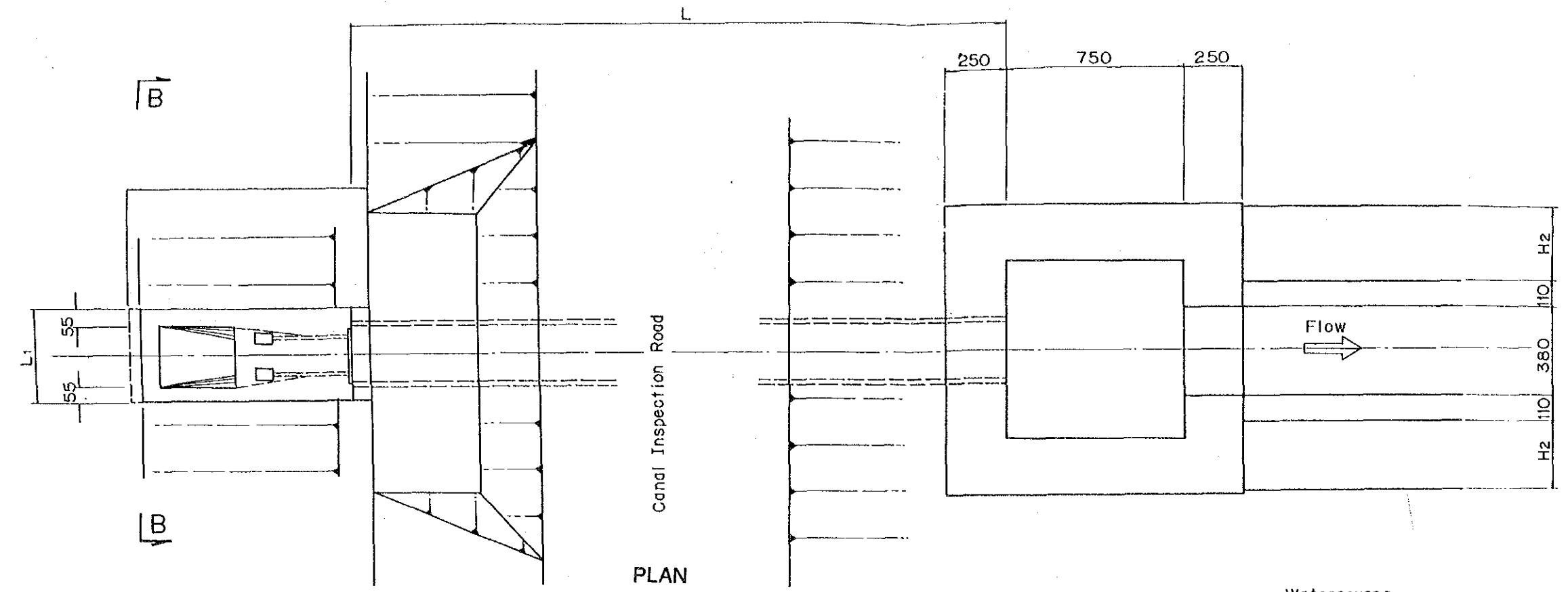


SECTION A-A

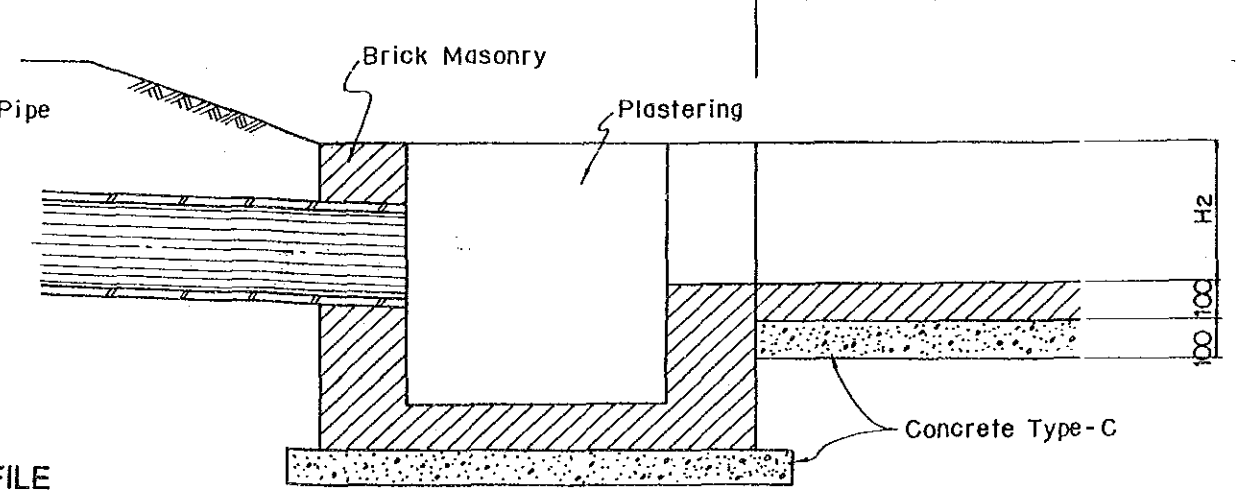
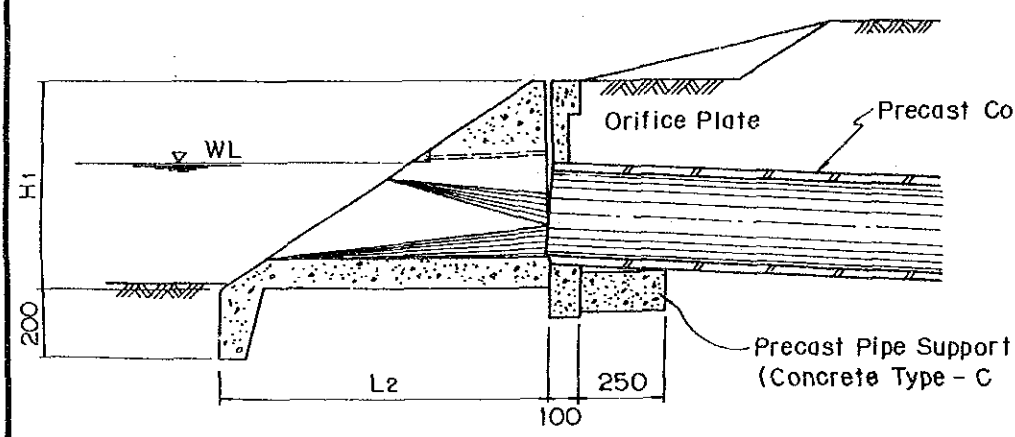


SECTION B-B

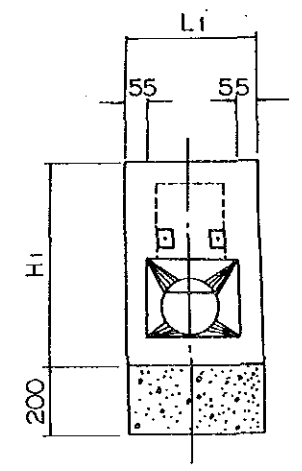
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE:
OFFTAKING STRUCTURE
JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN

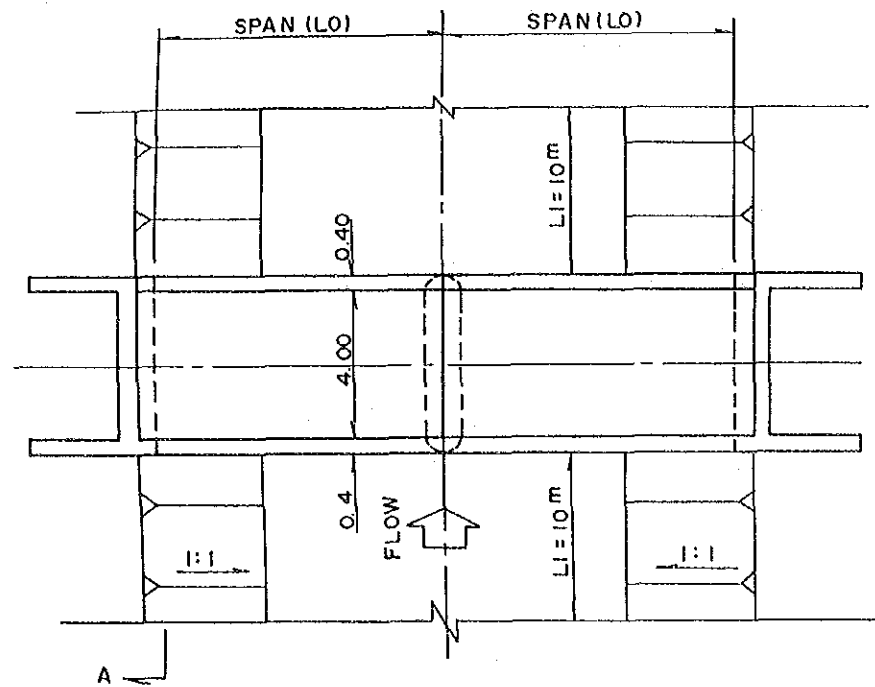


PROFILE

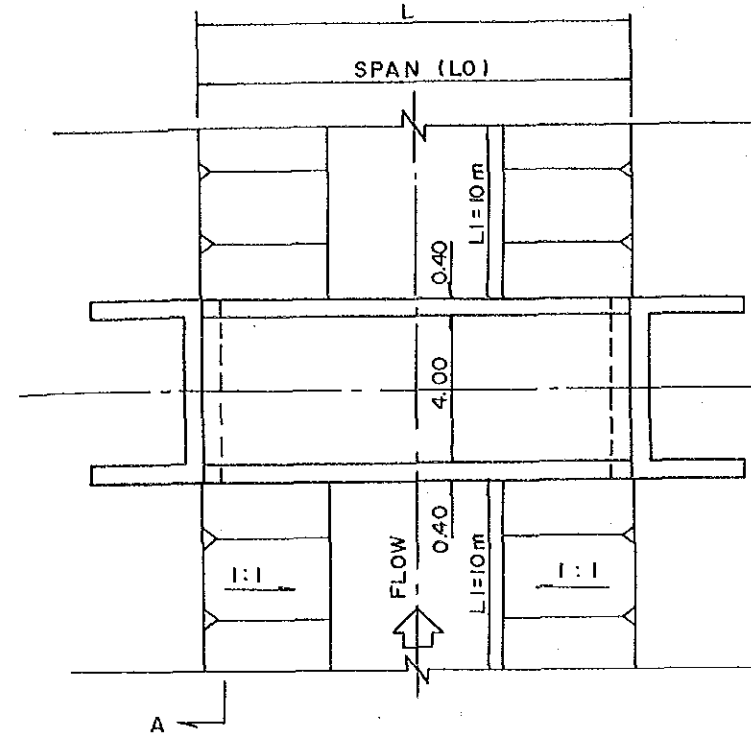


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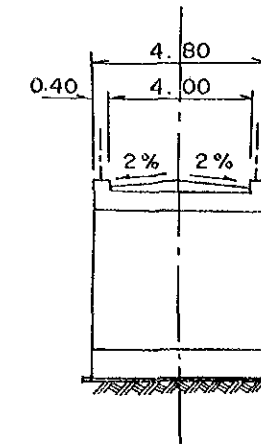
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE:
OUTLET STRUCTURE
JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN



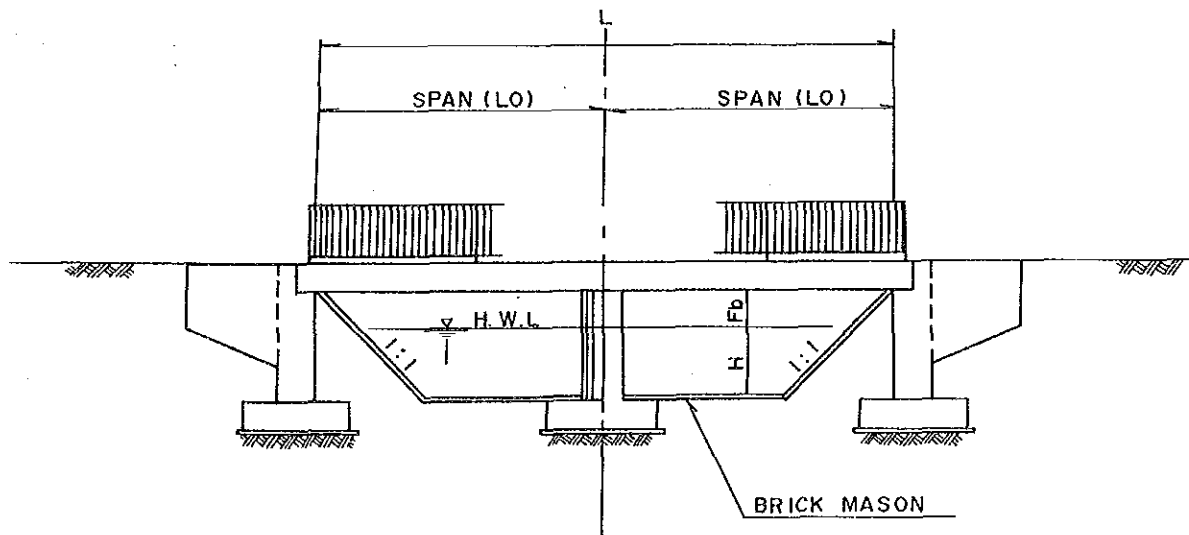
PLAN



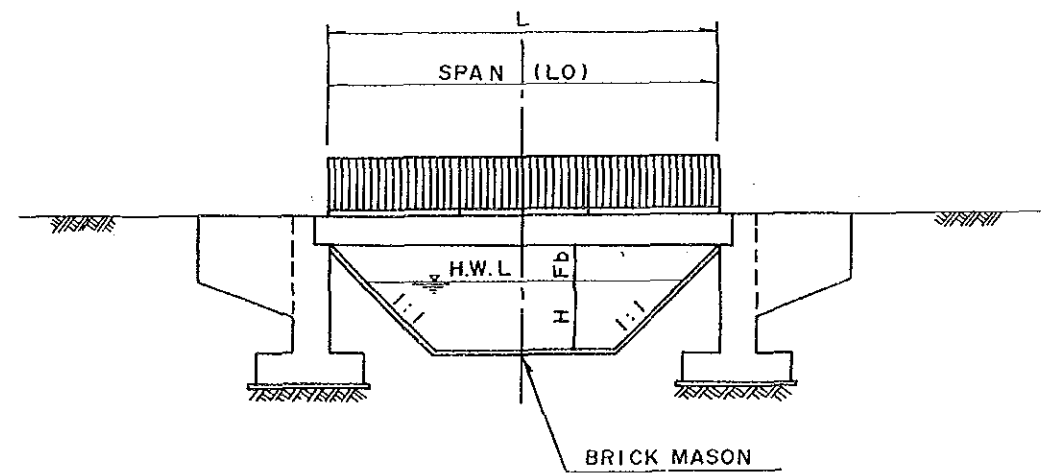
A-A SECTION

NOTE:

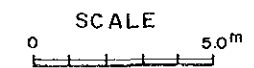
	L	H	Fb
2 SPAN	8m ~ 15m	1.0m ~ 1.2m	0.6m
1 SPAN	4m ~ 7.5m	1.0m ~ 1.2m	0.6m



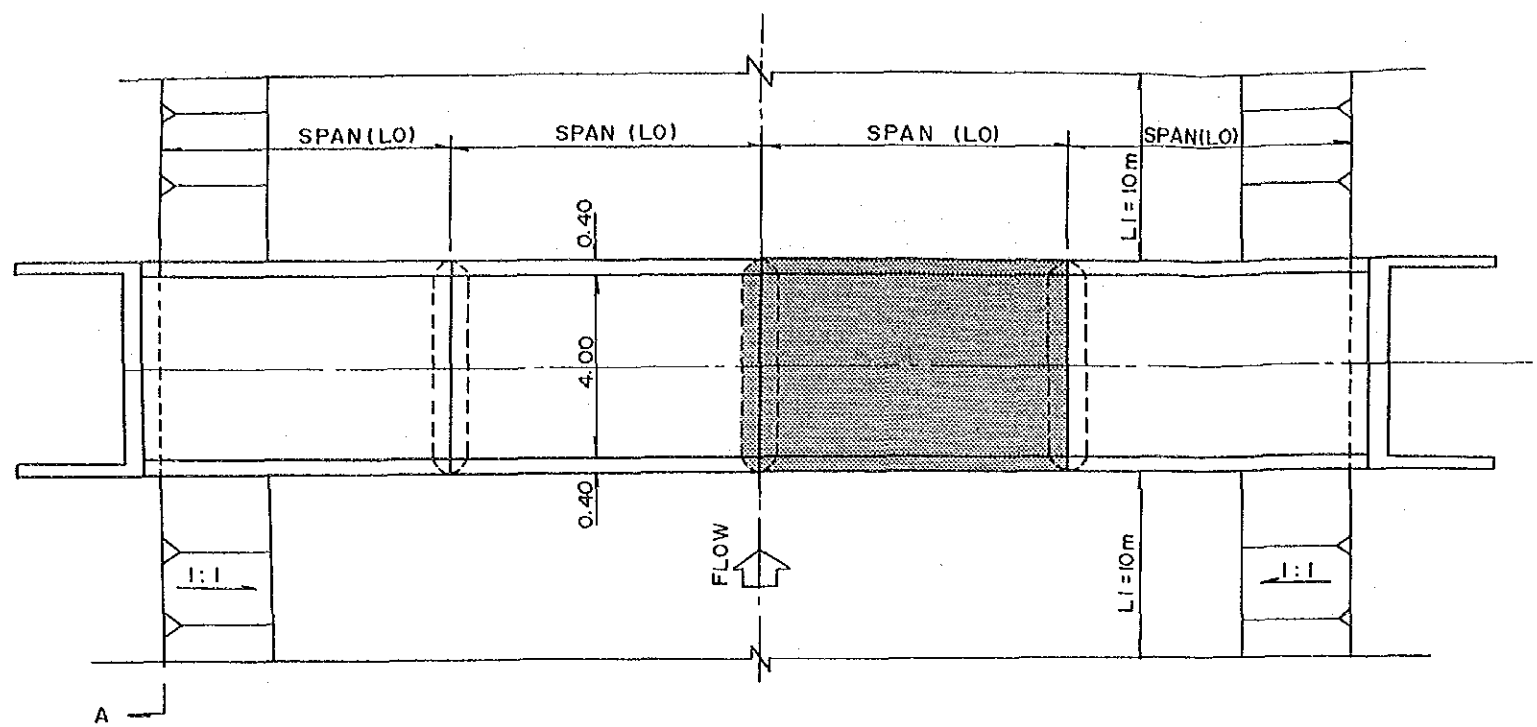
PROFILE



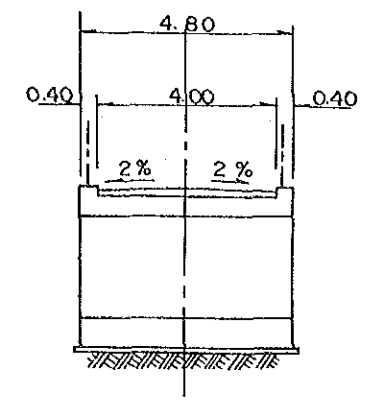
PROFILE



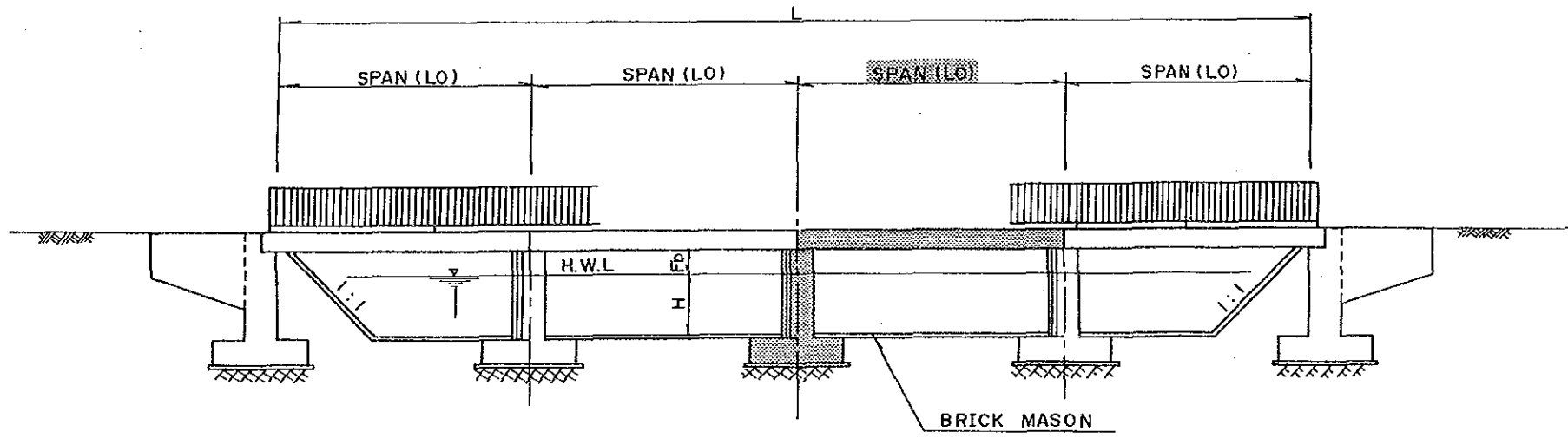
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE: BRIDGE STRUCTURE (1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN



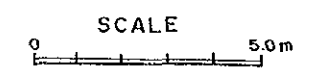
A-A SECTION



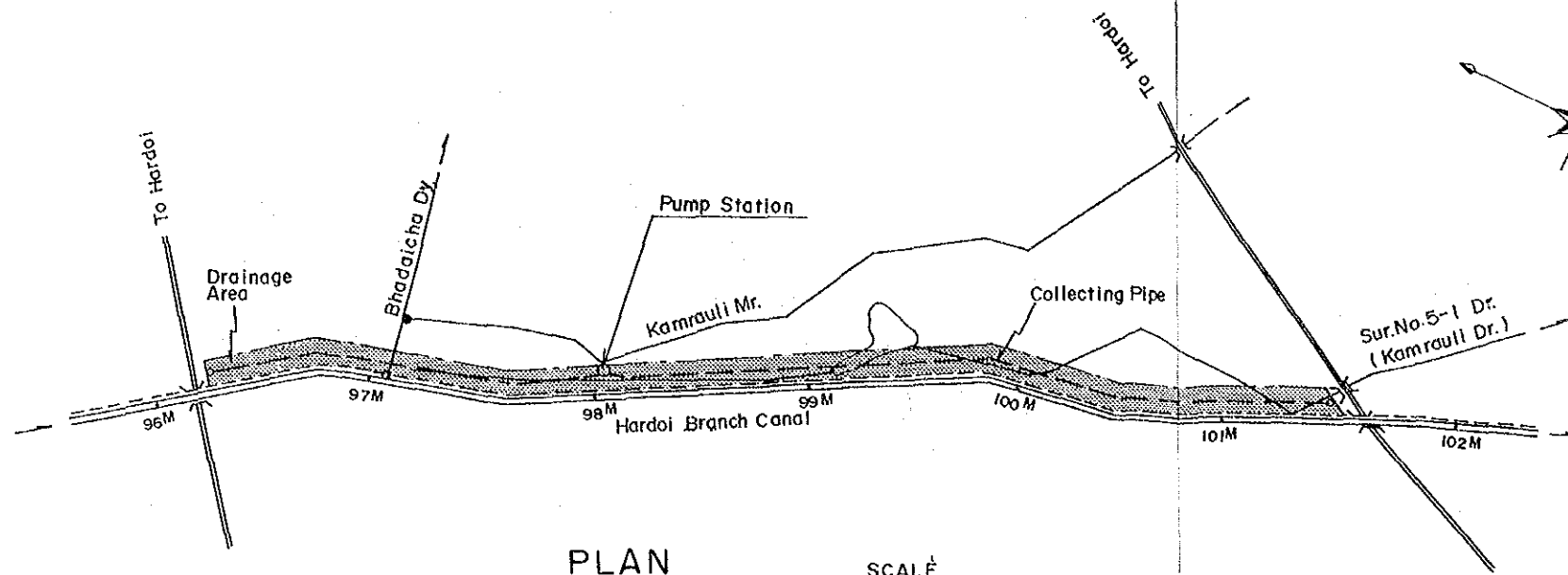
PROFILE

NOTE :

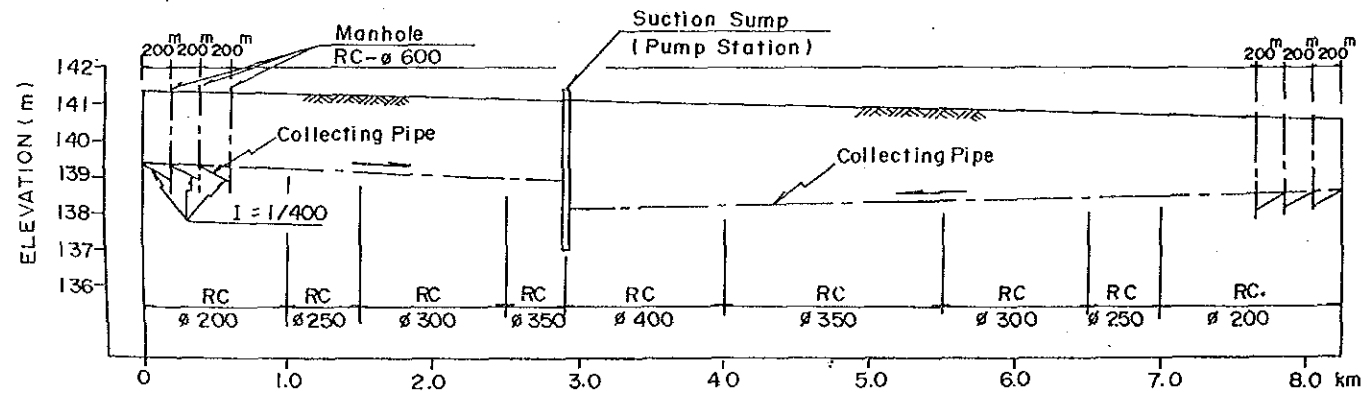
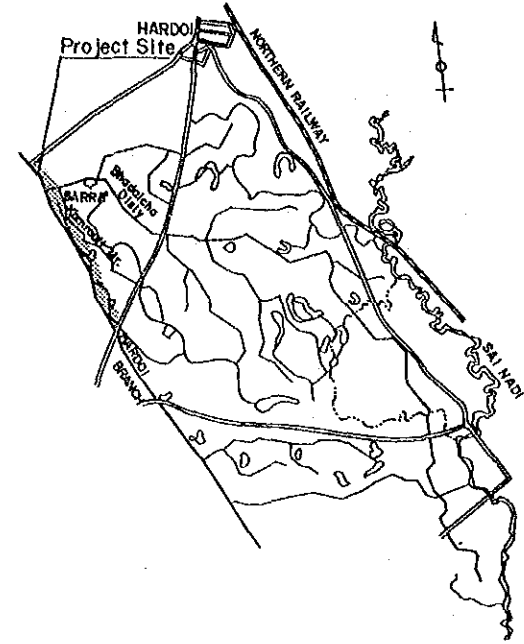
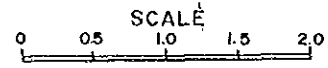
	L	H	Fb
4 SPAN	23m ~ 30m	1.0m ~ 1.5m	0.6m ~ 0.9m
3 SPAN	16m ~ 22.5m	1.0m ~ 1.5m	0.6m ~ 0.9m



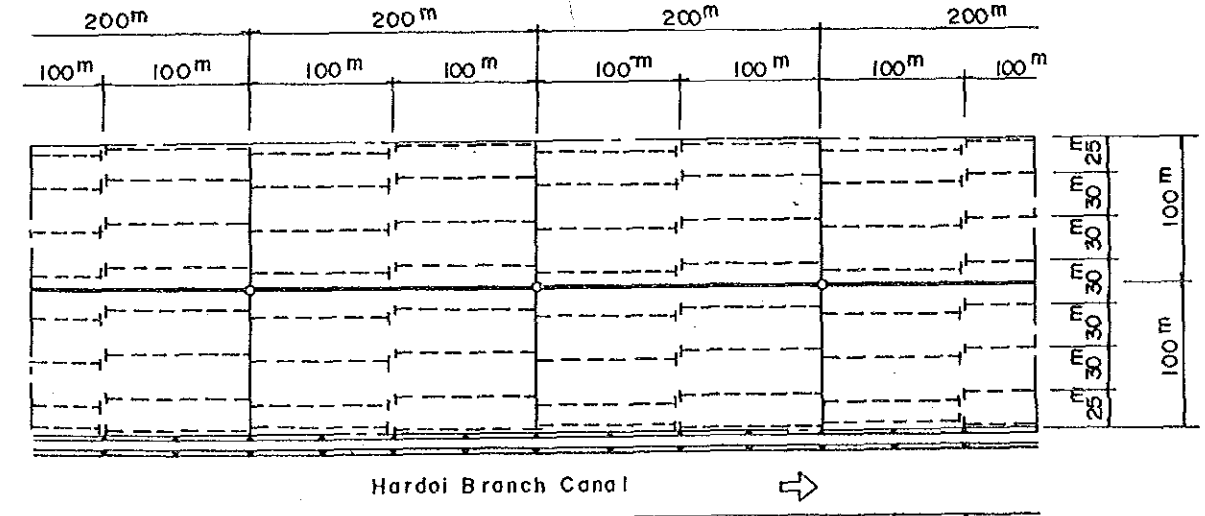
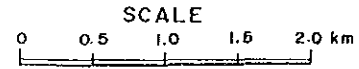
INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE :
 BRIDGE STRUCTURE (2/2)
 JAPAN INTERNATIONAL COOPERATION AGENCY



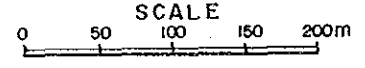
PLAN



PROFILE



- NOTE
- : Lateral Drain Pipe PVC ø 50mm
 - : Sub-collecting Drain Pipe PVC ø 100mm
 - : Collecting Pipe RC ø 200~ø 400mm
 - o : Manhole RC ø 600mm



PLAN (Sub-surface Drain)

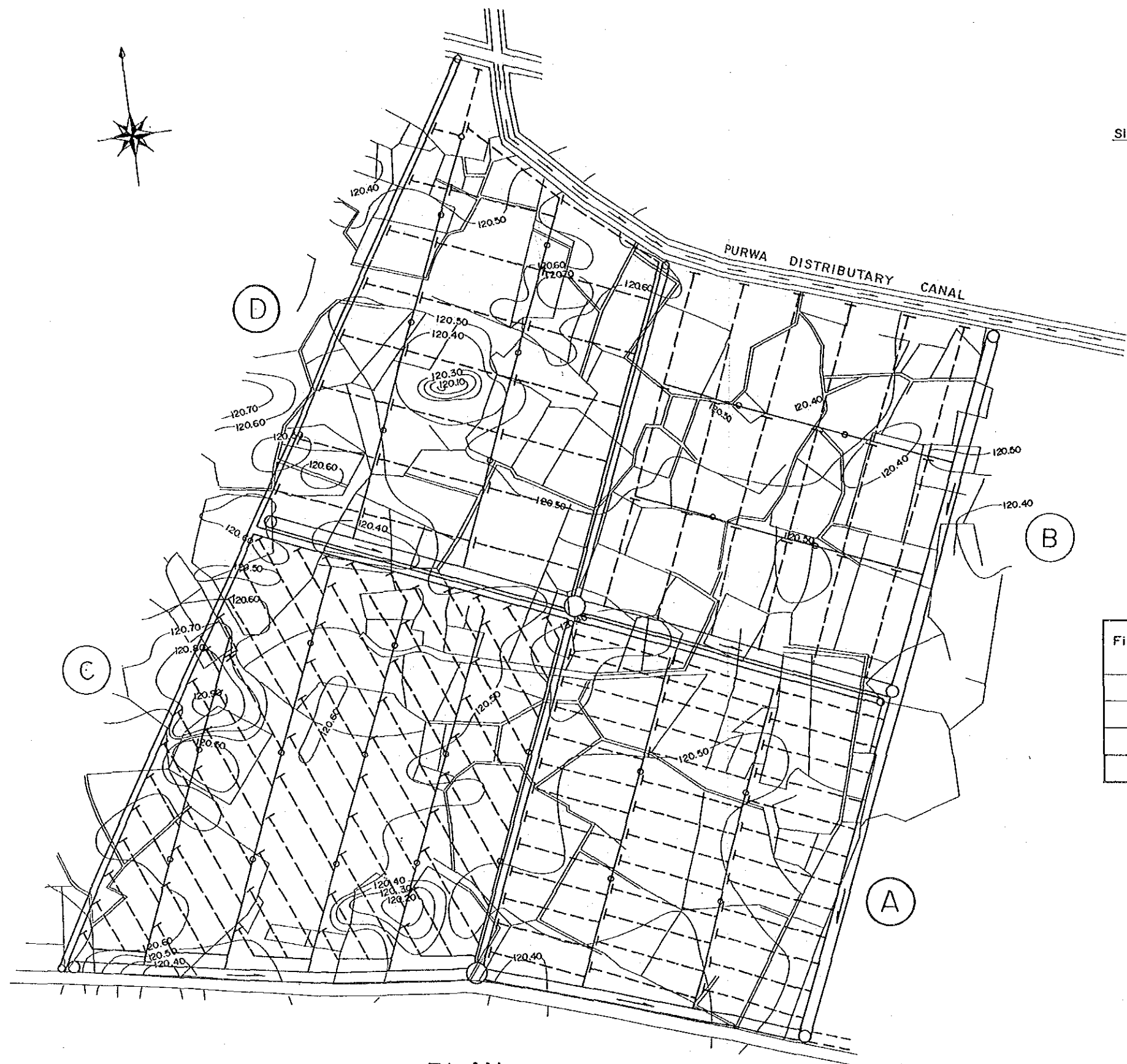
INDIA

**FEASIBILITY STUDY ON
IRRIGATION AND DRAINAGE DEVELOPMENT OF
SHARDA CANAL CAD PROJECT**

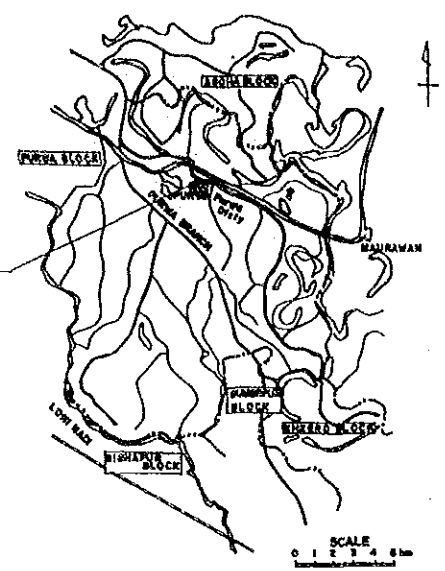
TITLE:

**PIPE DRAIN ALONG HARDOI BRANCH
CANAL IN SURSA AREA**

JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN

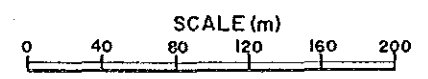


Site of Pilot Farm

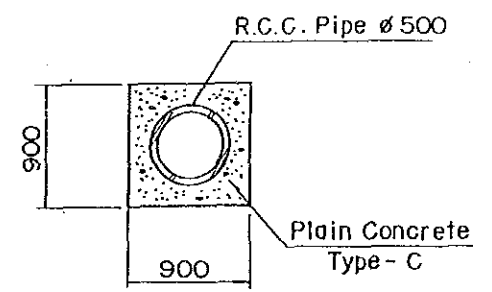
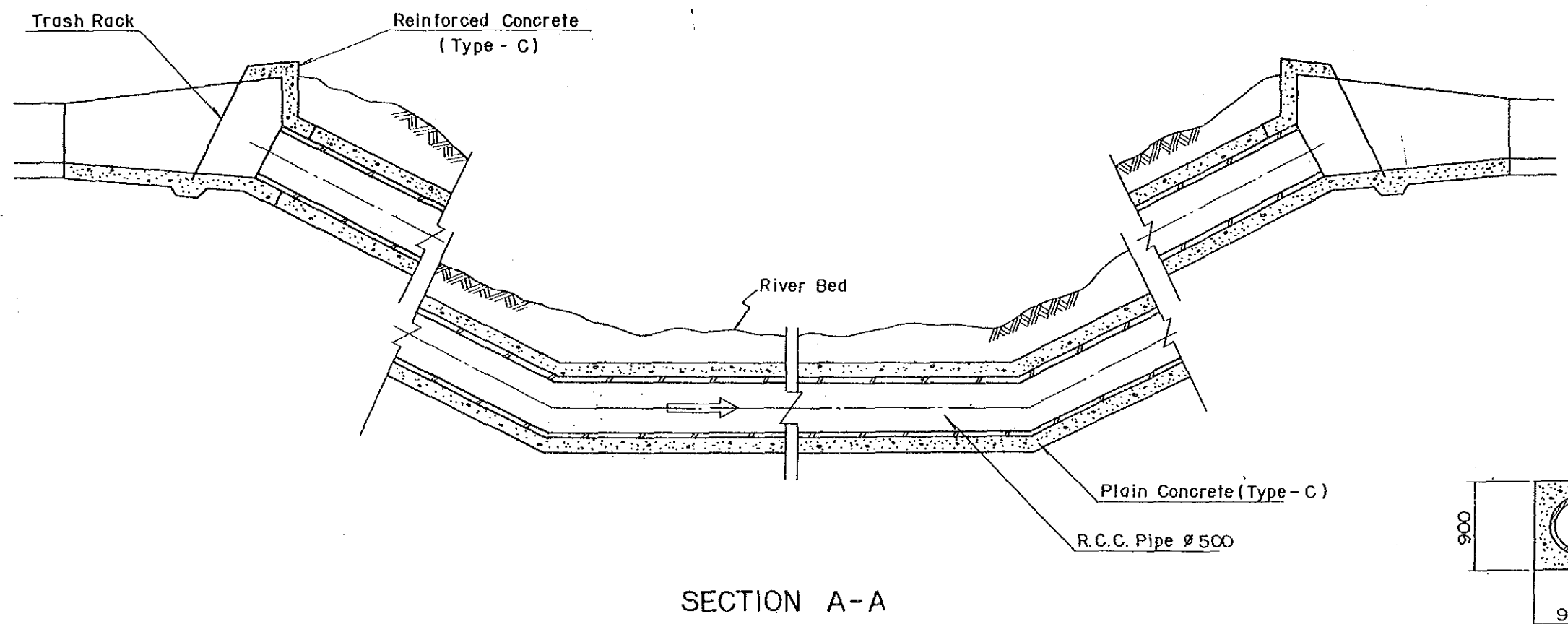
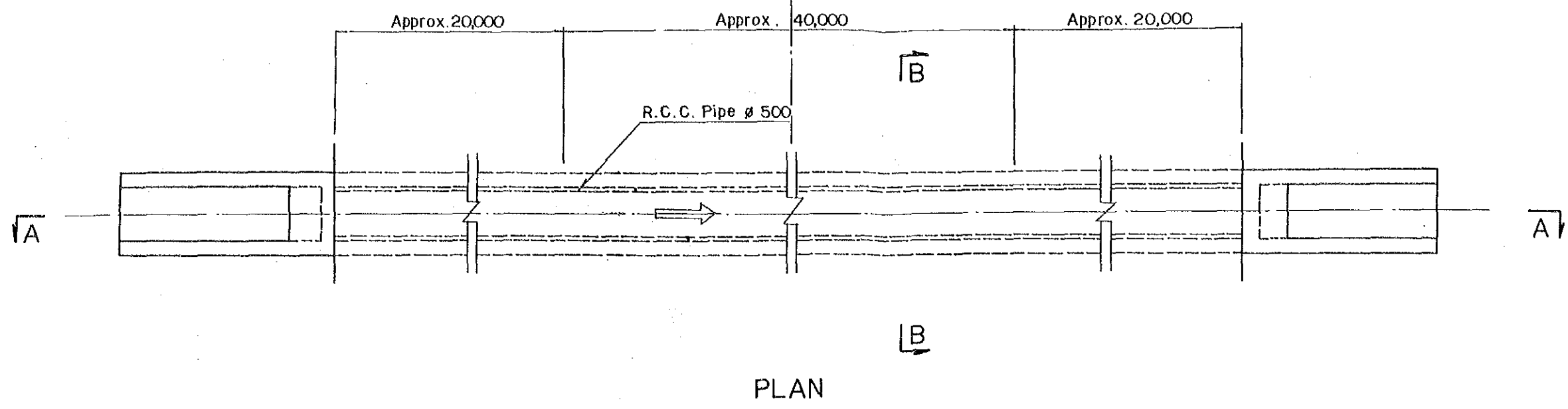
LEGEND

	Lateral Drain
	Sub-collecting Drain
	Manhole
	Tertiary Drainage Canal
	Farm Road
	Foot path

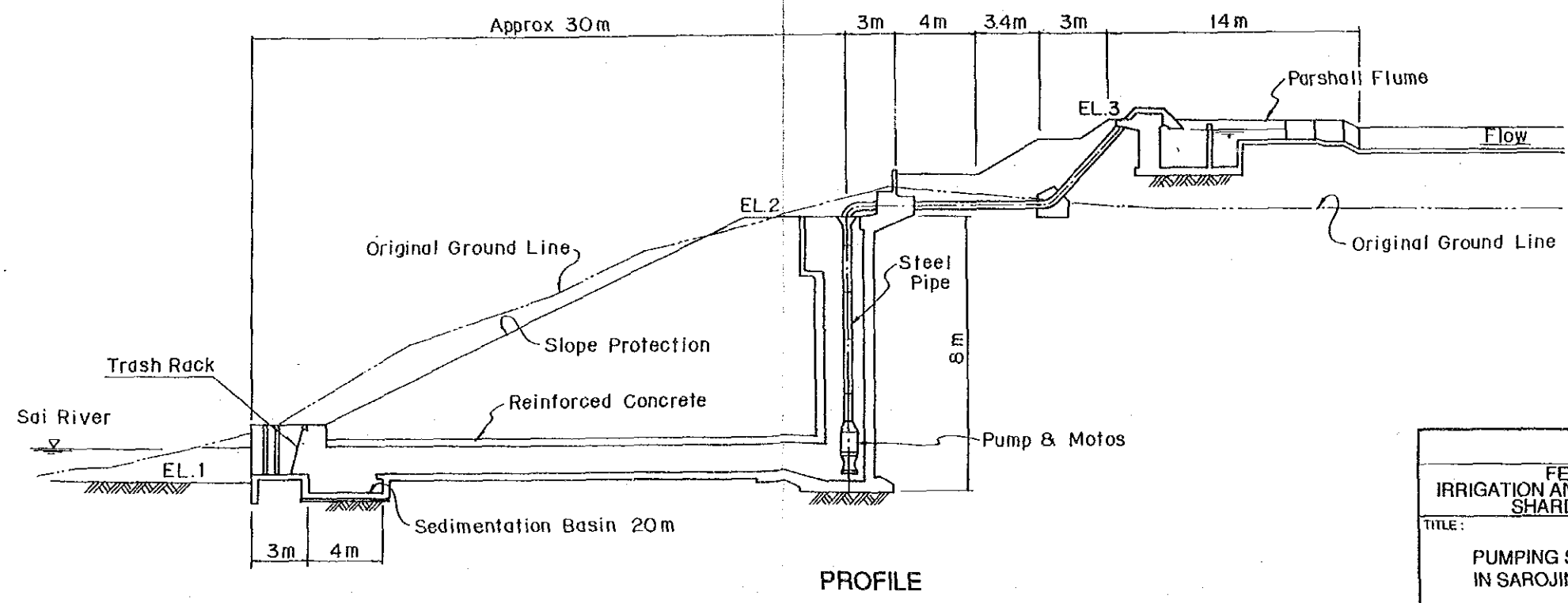
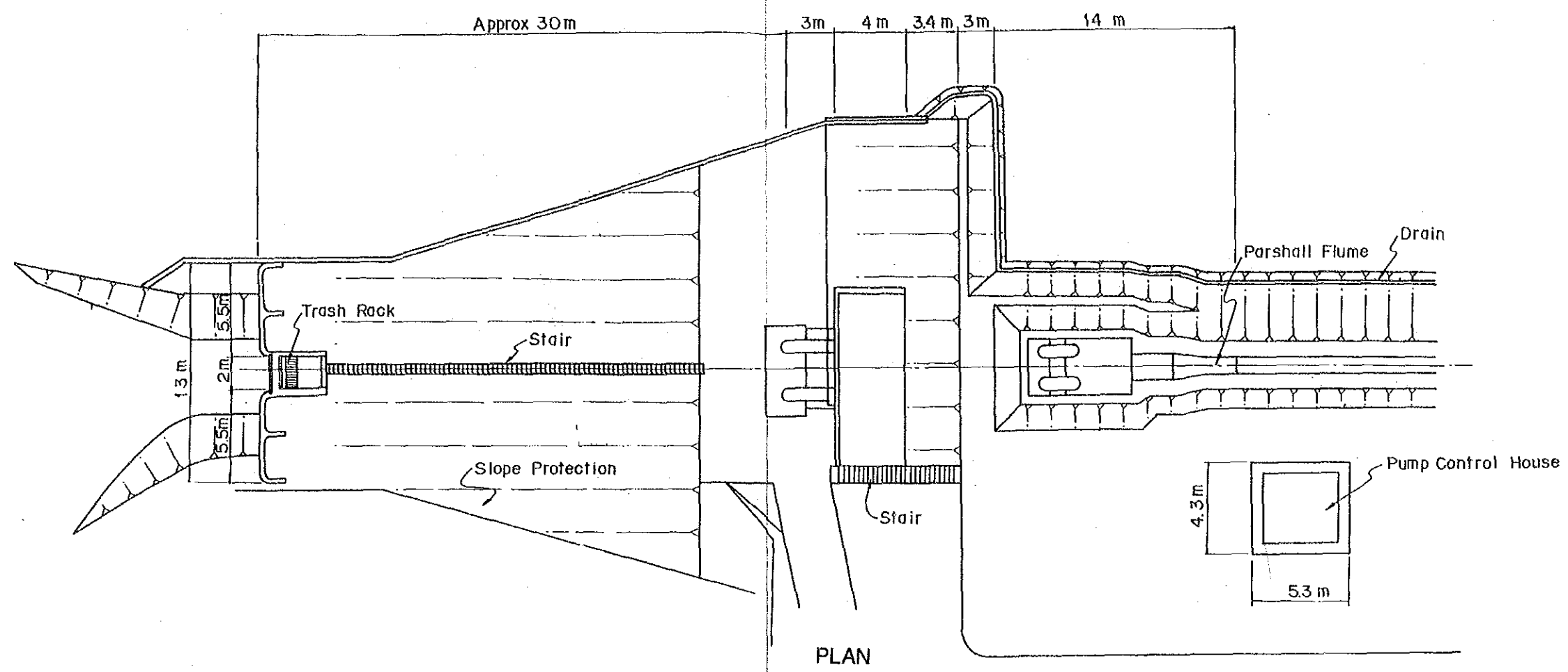
Field Block	Field Area (ha)	Drainage Spacing(m)	Structure of Sub-surface Drain
A	9.8	25	Pipe Drain
B	12.3	50	Smash of Brick, Chaff
C	10.3	25	Pipe Drain
D	10.3	50	Smash of Brick, Chaff



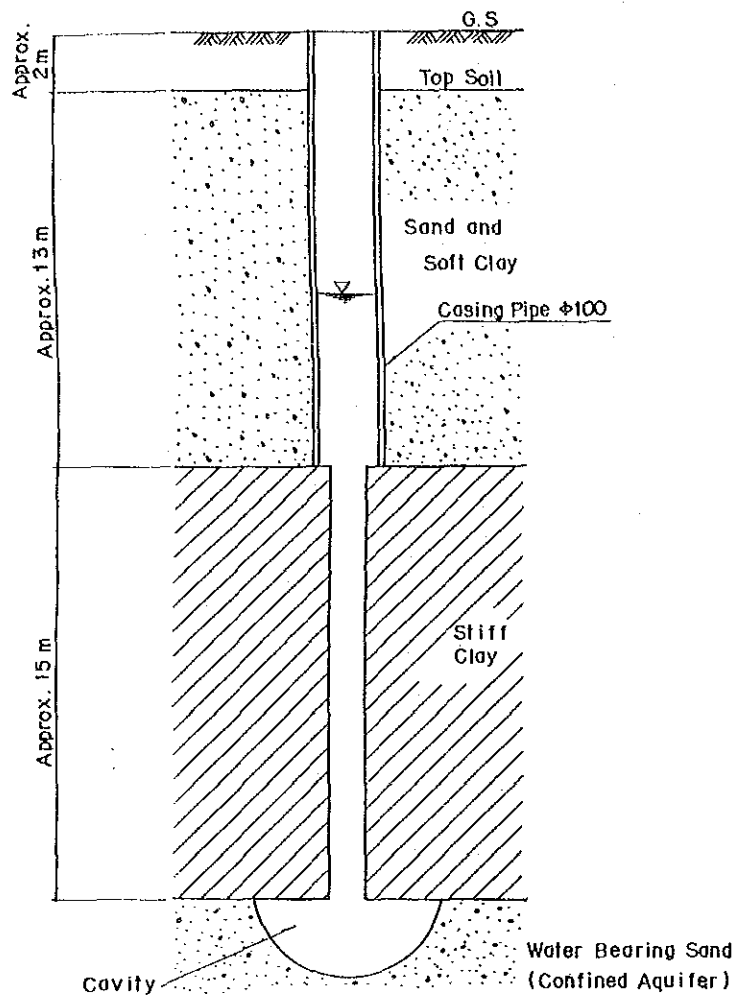
INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE:
 SUB-SURFACE DRAINAGE SYSTEM
 IN PURWA AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY



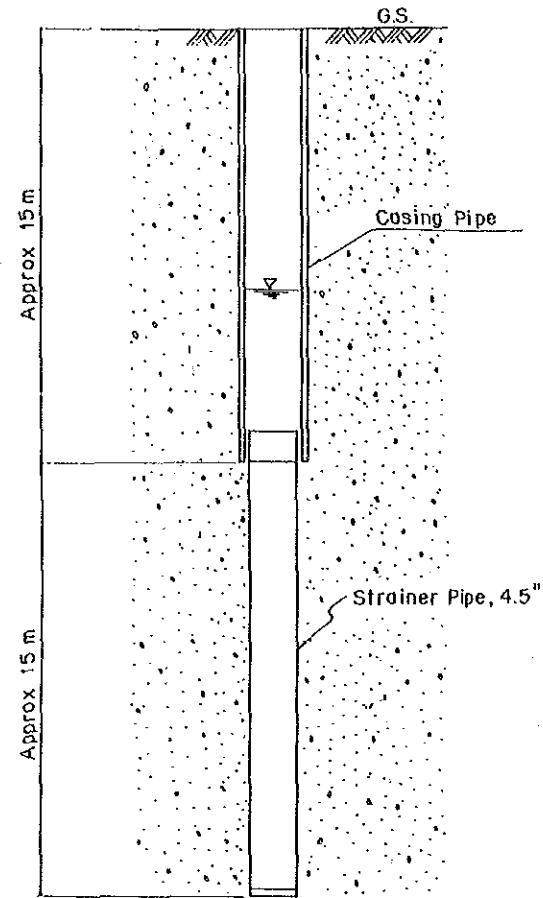
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE:
SIPHON STRUCTURE IN SURSA AREAS
JAPAN INTERNATIONAL COOPERATION AGENCY



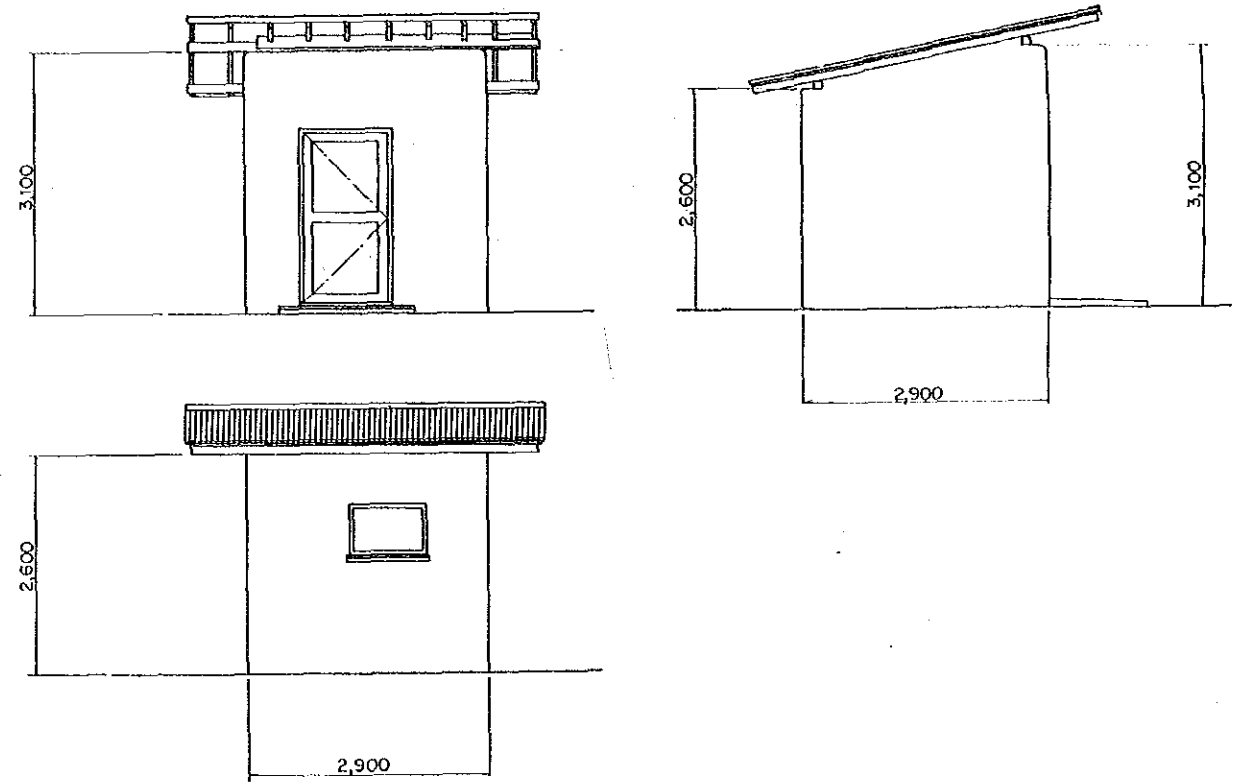
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE:
PUMPING STATION IN SAROJINI NAGAR AND SATABON AREAS
JAPAN INTERNATIONAL COOPERATION AGENCY



PROFILE OF CAVITY WELL IN PURWA AREA

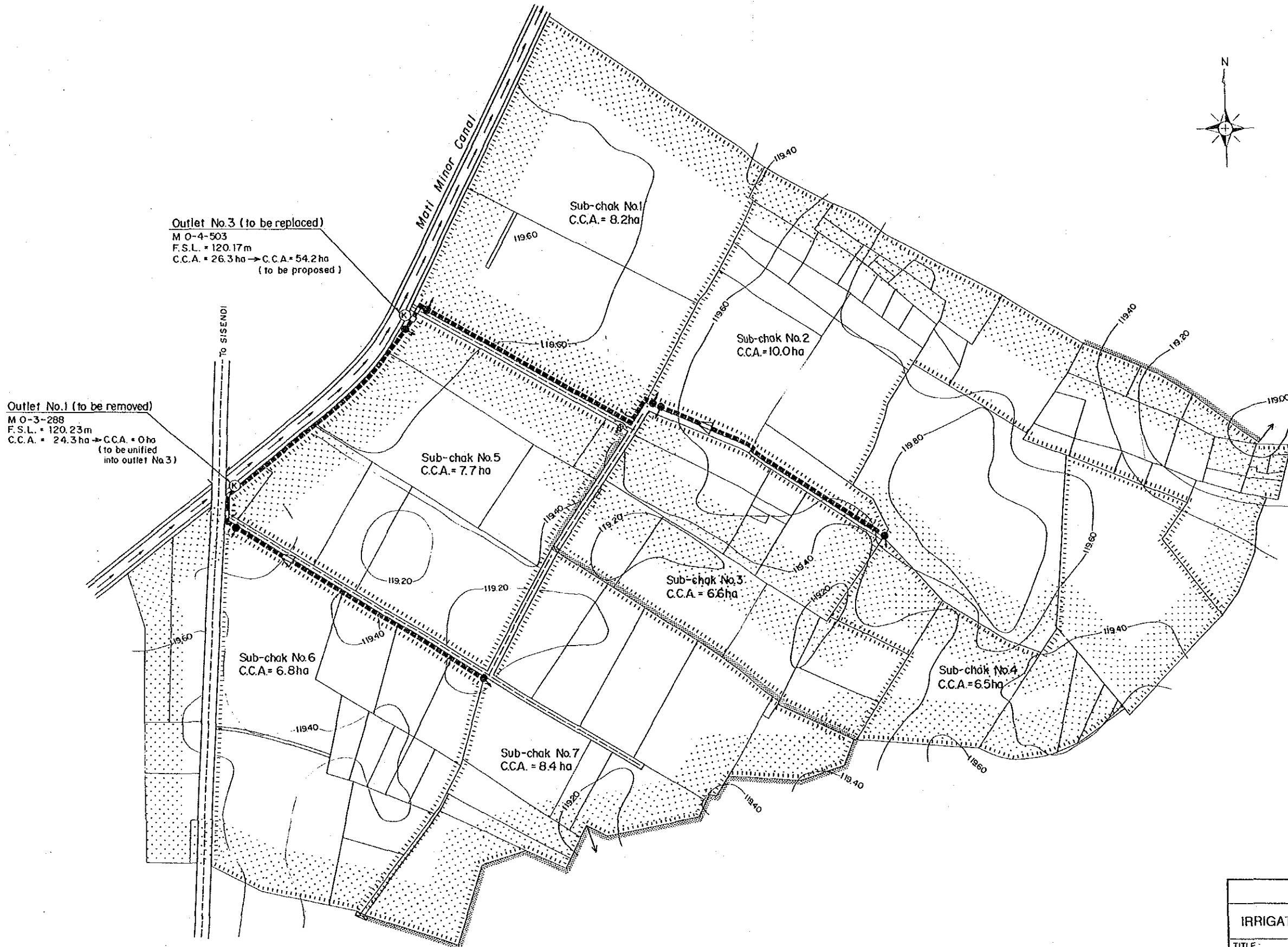
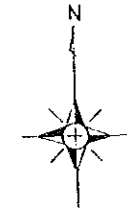


PROFILE OF TUBEWELL WITH STRAINER IN SURSA AREA



PUMP HOUSE

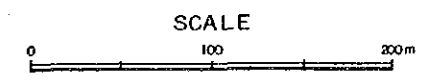
INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE:
SHALLOW TUBEWELL AND PUMP HOUSE
JAPAN INTERNATIONAL COOPERATION AGENCY



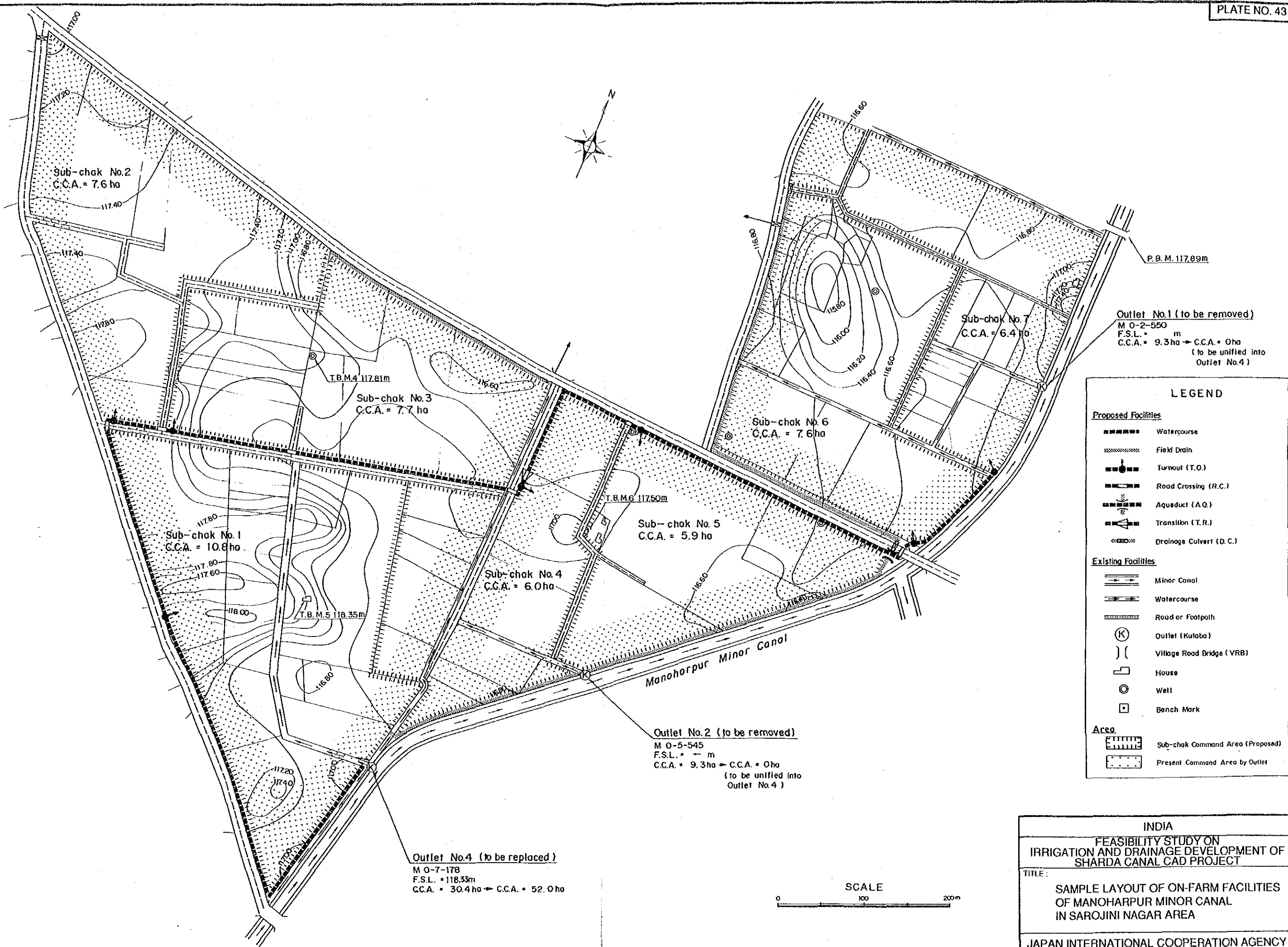
Outlet No.3 (to be replaced)
 M O-4-503
 F.S.L. = 120.17m
 C.C.A. = 26.3 ha → C.C.A. = 54.2 ha
 (to be proposed)

Outlet No.1 (to be removed)
 M O-3-288
 F.S.L. = 120.23m
 C.C.A. = 24.3 ha → C.C.A. = 0 ha
 (to be unified into outlet No.3)

LEGEND	
Proposed Facilities	
	Watercourse
	Field Drain
	Turnout (T.O.)
	Road Crossing (R.C.)
	Aqueduct (A.Q.)
	Transition (T.R.)
	Drainage Culvert (D.C.)
Existing Facilities	
	Minor Canal
	Watercourse
	Road or Footpath
	Outlet (Kutaba)
	Village Road Bridge (VRB)
	House
	Well
	Bench Mark
Area	
	Sub-chak Command Area (Proposed)
	Present Command Area by Outlet



INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE:
 SAMPLE LAYOUT OF ON-FARM FACILITIES
 OF MATI MINOR CANAL
 IN SAROJINI NAGAR AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY

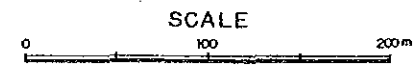


Outlet No.1 (to be removed)
 M O-2-550
 F.S.L. = — m
 C.C.A. = 9.3ha → C.C.A. = Oha
 (to be unified into Outlet No.4)

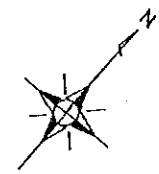
LEGEND	
Proposed Facilities	
	Watercourse
	Field Drain
	Turnout (T.O.)
	Road Crossing (R.C.)
	Aqueduct (A.Q.)
	Transition (T.R.)
	Drainage Culvert (D.C.)
Existing Facilities	
	Minor Canal
	Watercourse
	Road or Footpath
	Outlet (Kutaba)
	Village Road Bridge (VRB)
	House
	Well
	Bench Mark
Area	
	Sub-chak Command Area (Proposed)
	Present Command Area by Outlet

Outlet No.2 (to be removed)
 M O-5-545
 F.S.L. = — m
 C.C.A. = 9.3ha → C.C.A. = Oha
 (to be unified into Outlet No.4)

Outlet No.4 (to be replaced)
 M O-7-178
 F.S.L. = 118.33m
 C.C.A. = 30.4ha → C.C.A. = 52.0ha



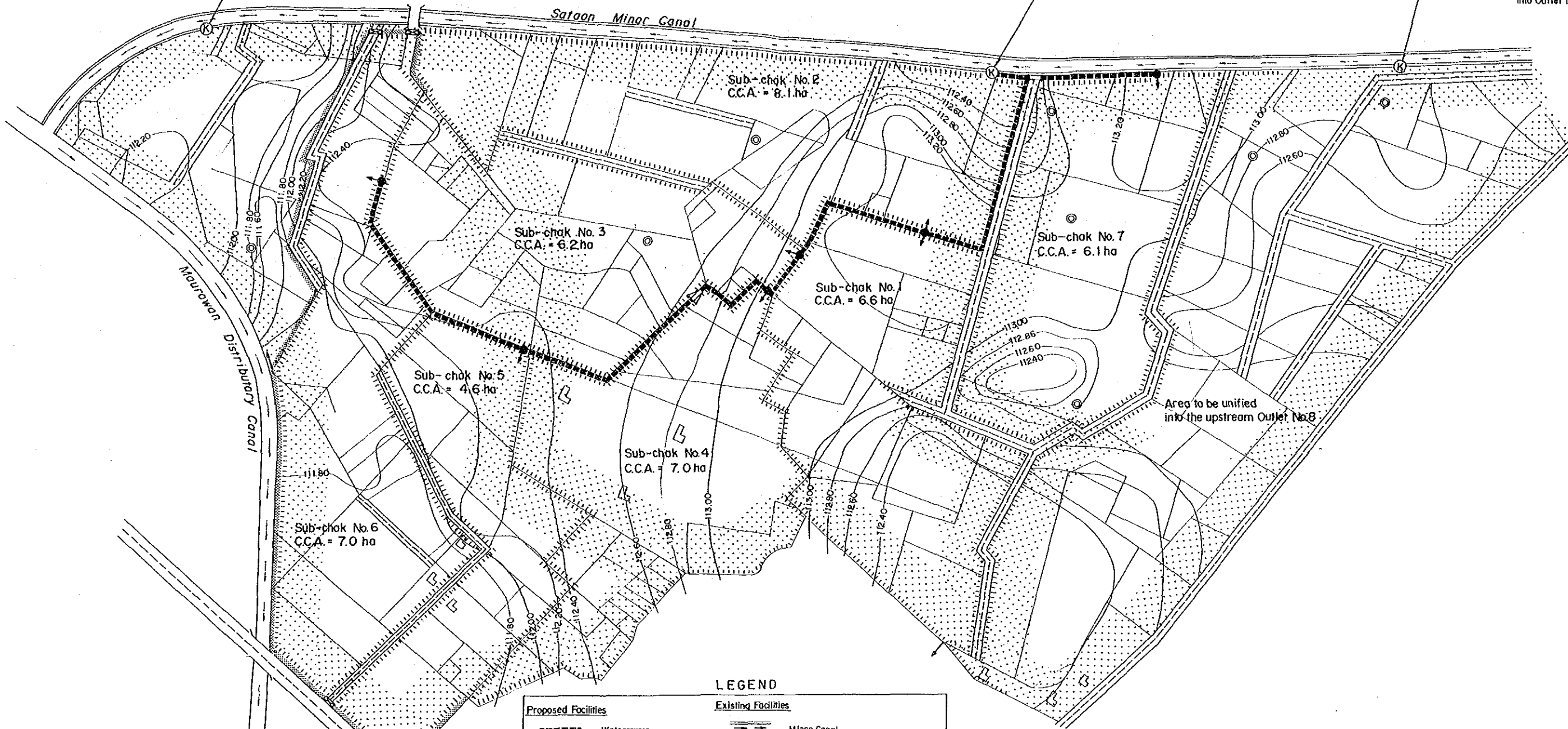
INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE:
 SAMPLE LAYOUT OF ON-FARM FACILITIES
 OF MANOHARPUR MINOR CANAL
 IN SAROJINI NAGAR AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY



Outlet No.2 (to be removed)
 M O-1-0
 F.S.L. = — m
 C.C.A. = 17.0ha → C.C.A. = 0ha
 (to be unified into Outlet No.4)

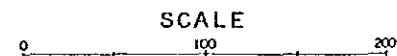
Outlet No.4 (to be replaced)
 M O-5-0
 F.S.L. = 113.64m
 C.C.A. = 18.0ha → C.C.A. = 45.6ha

Outlet No.6 (to be removed)
 M O-7-0
 F.S.L. = — m
 C.C.A. = 18.0ha → C.C.A. = 0ha
 (to be unified into Outlet No.8)



LEGEND

Proposed Facilities	Existing Facilities
Watercourse	Minor Canal
Field Drain	Watercourse
Turnout (T.O.)	Road or Footpath
Road Crossing (R.C.)	Outlet (Kulaba)
Aqueduct (A.O.)	Village Road Bridge (VRB)
Transition (T.R.)	House
Drainage Culvert (D.C.)	Well
	Bench Mark
	Area
	Sub-chak Command Area (Proposed)
	Present Command Area by Outlet

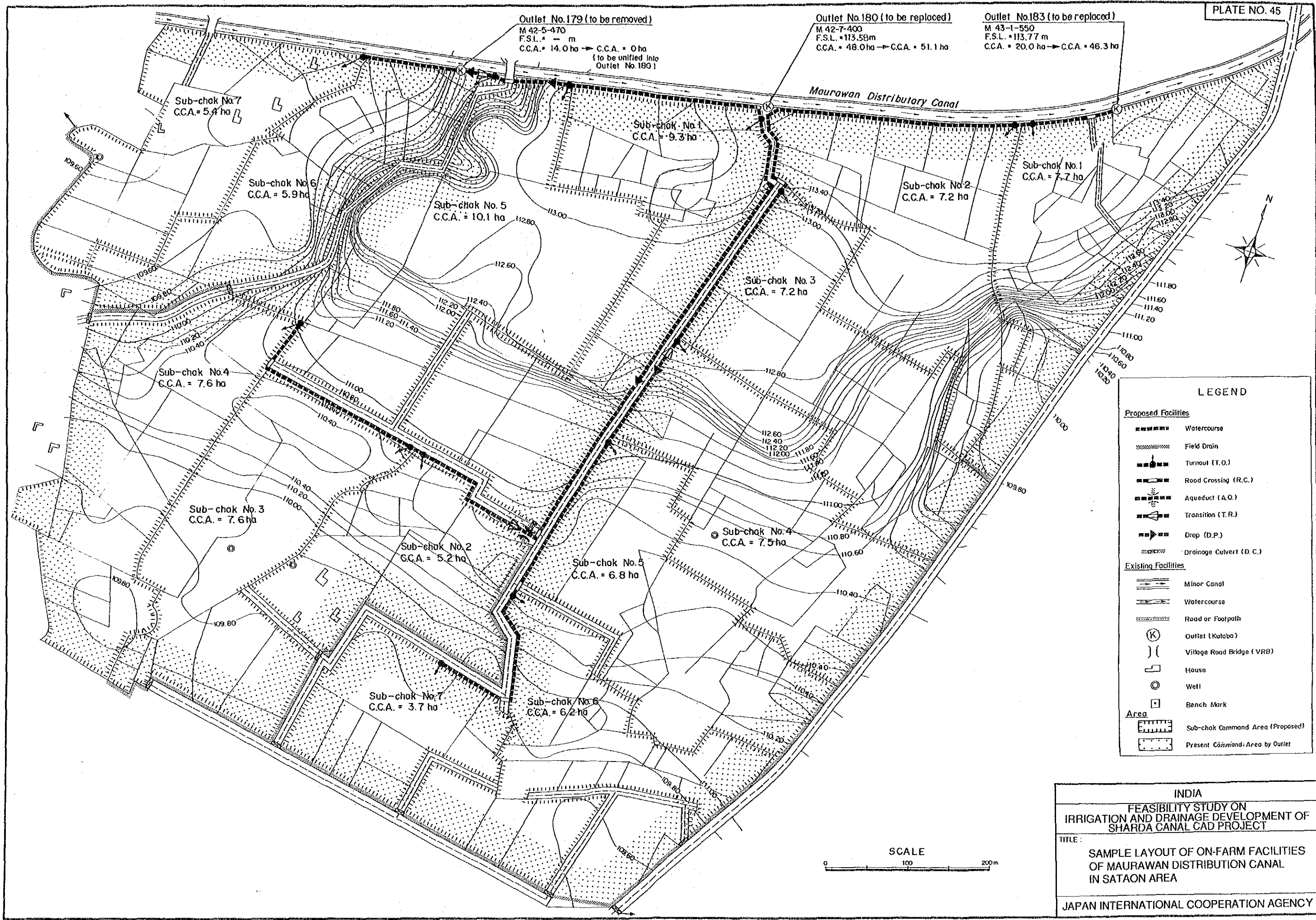


INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE:
 SAMPLE LAYOUT OF ON-FARM FACILITIES
 OF SATAON MINOR CANAL
 IN SATAON AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY

Outlet No.179 (to be removed)
 M 42-5-470
 F.S.L. = m
 C.C.A. = 14.0 ha → C.C.A. = 0 ha
 (to be unified into Outlet No.180)

Outlet No.180 (to be replaced)
 M 42-7-400
 F.S.L. = 113.58m
 C.C.A. = 48.0 ha → C.C.A. = 51.1 ha

Outlet No.183 (to be replaced)
 M 43-1-550
 F.S.L. = 113.77 m
 C.C.A. = 20.0 ha → C.C.A. = 46.3 ha



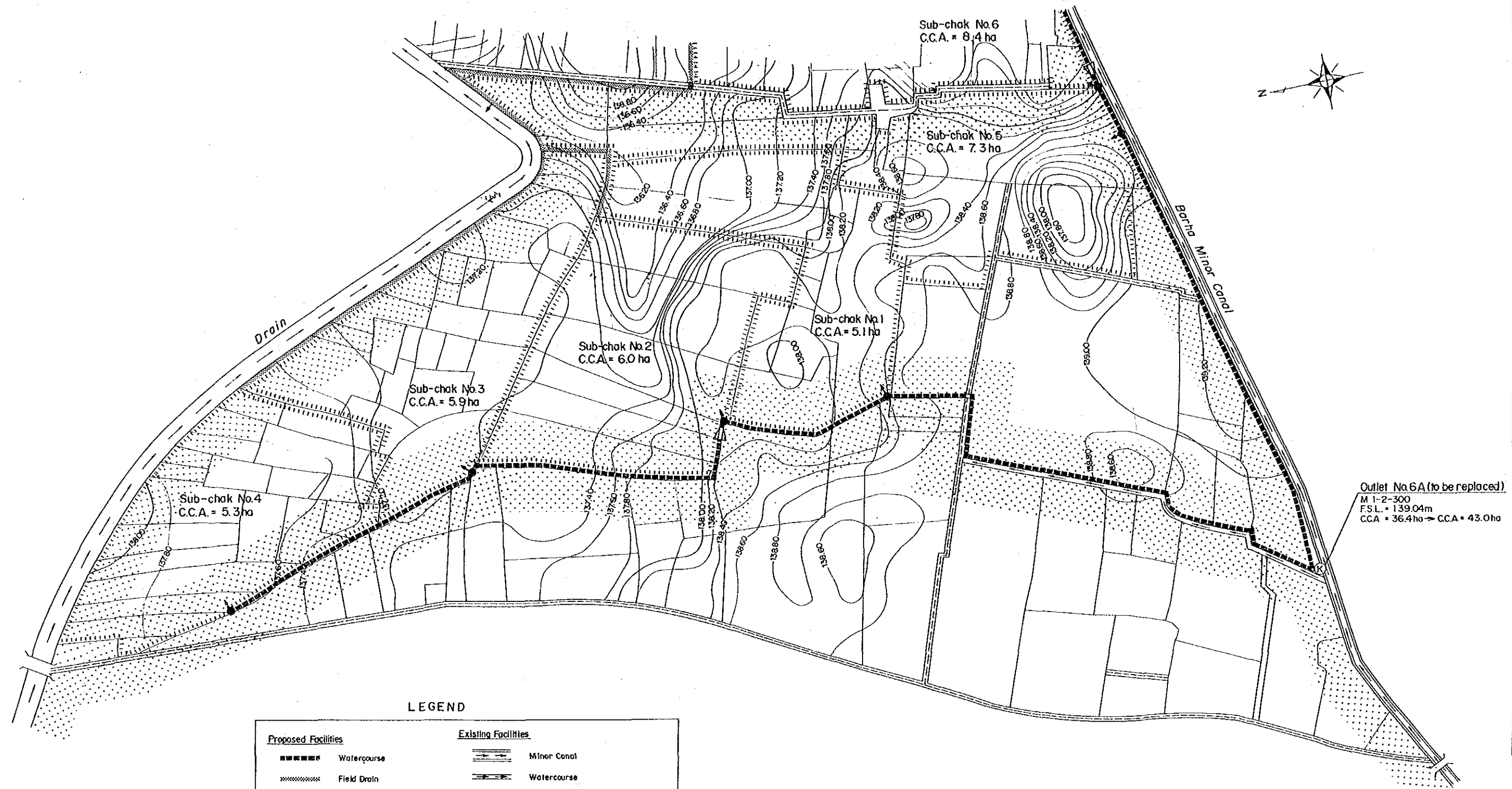
LEGEND	
Proposed Facilities	
	Watercourse
	Field Drain
	Turnout (T.O.)
	Road Crossing (R.C.)
	Aqueduct (A.Q.)
	Transition (T.R.)
	Drop (D.P.)
	Drainage Culvert (D.C.)
Existing Facilities	
	Minor Canal
	Watercourse
	Road or Footpath
	Outlet (Kulaba)
	Village Road Bridge (VRB)
	House
	Well
	Bench Mark
Area	
	Sub-chak Command Area (Proposed)
	Present Command Area by Outlet

INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT

TITLE :
 SAMPLE LAYOUT OF ON-FARM FACILITIES
 OF MAURAWAN DISTRIBUTION CANAL
 IN SATAON AREA

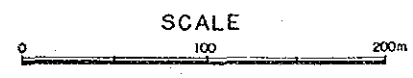
JAPAN INTERNATIONAL COOPERATION AGENCY





LEGEND

Proposed Facilities		Existing Facilities	
	Watercourse		Minor Canal
	Field Drain		Watercourse
	Turnout (T.O.)		Road or Footpath
	Road Crossing (R.C.)		Outlet (Kulaba)
	Aqueduct (A.Q.)		Village Road Bridge (VRB)
	Transition (T.R.)		House
	Drainage Culvert (D.C.)		Well
			Bench Mark
		Area	
	Sub-chak Command Area (Proposed)		Present Command Area by Outlet

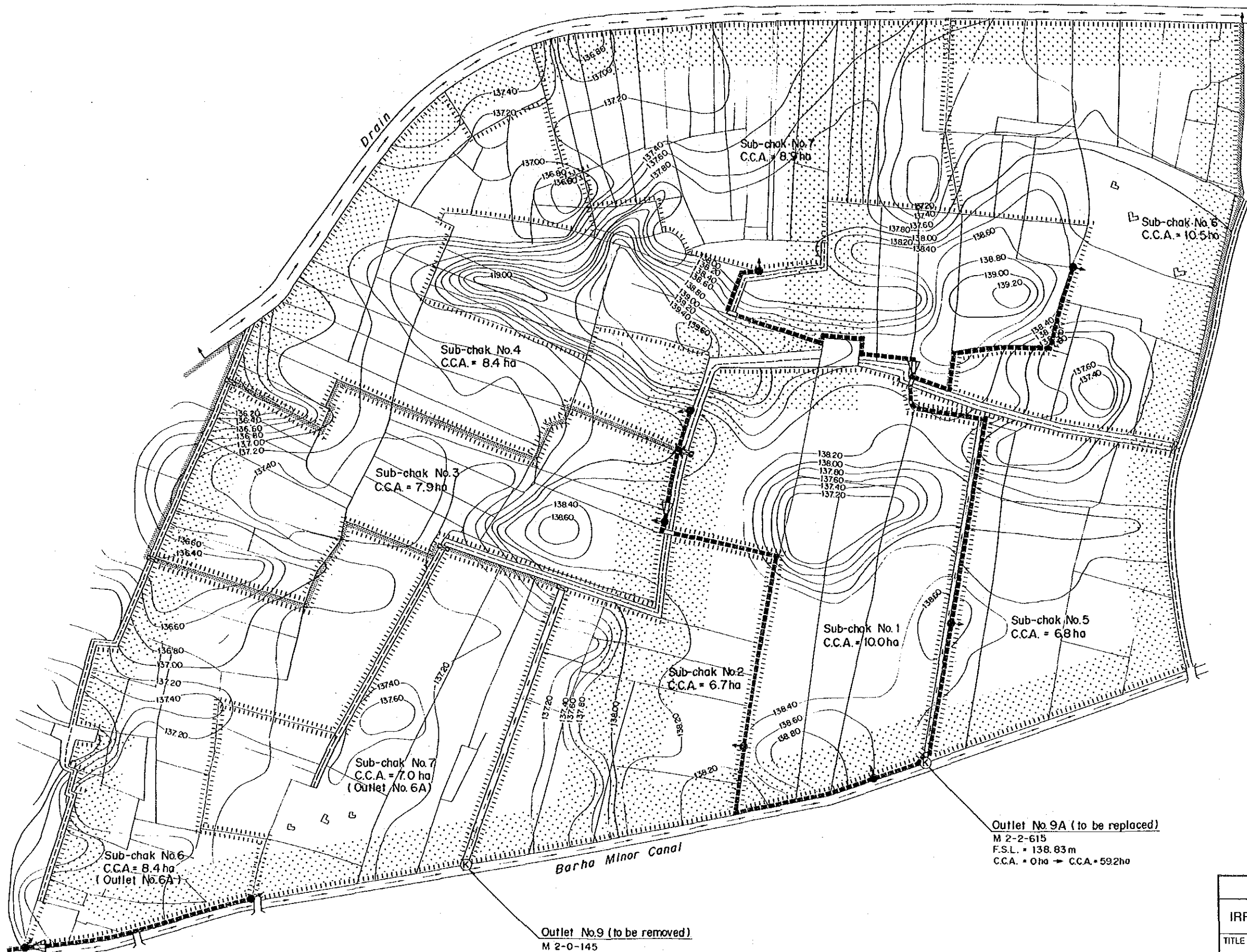


INDIA

FEASIBILITY STUDY ON
IRRIGATION AND DRAINAGE DEVELOPMENT OF
SHARDA CANAL CAD PROJECT

TITLE:
SAMPLE LAYOUT OF ON-FARM FACILITIES
OF BARHA MINOR CANAL
IN SURSA AREA (1/2)

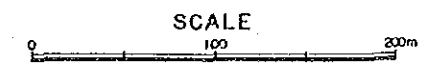
JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND	
Proposed Facilities	
	Watercourse
	Field Drain
	Turnout (T.O.)
	Road Crossing (R.C.)
	Aqueduct (A.Q.)
	Transition (T.R.)
	Drainage Culvert (D.C.)
Existing Facilities	
	Minor Canal
	Watercourse
	Road or Footpath
	Outlet (Kuloba)
	Village Road Bridge (VRB)
	House
	Well
	Bench Mark
Area	
	Sub-chak Command Area (Proposed)
	Present Command Area by Outlet

Outlet No.9A (to be replaced)
 M 2-2-615
 F.S.L. = 138.83m
 C.C.A. = 0ha → C.C.A. = 59.2ha

Outlet No.9 (to be removed)
 M 2-0-145
 F.S.L. = 138.88m
 C.C.A. = 44.1 ha → C.C.A. = 0 ha
 (to be unified into Outlet No.6A and No.9A)

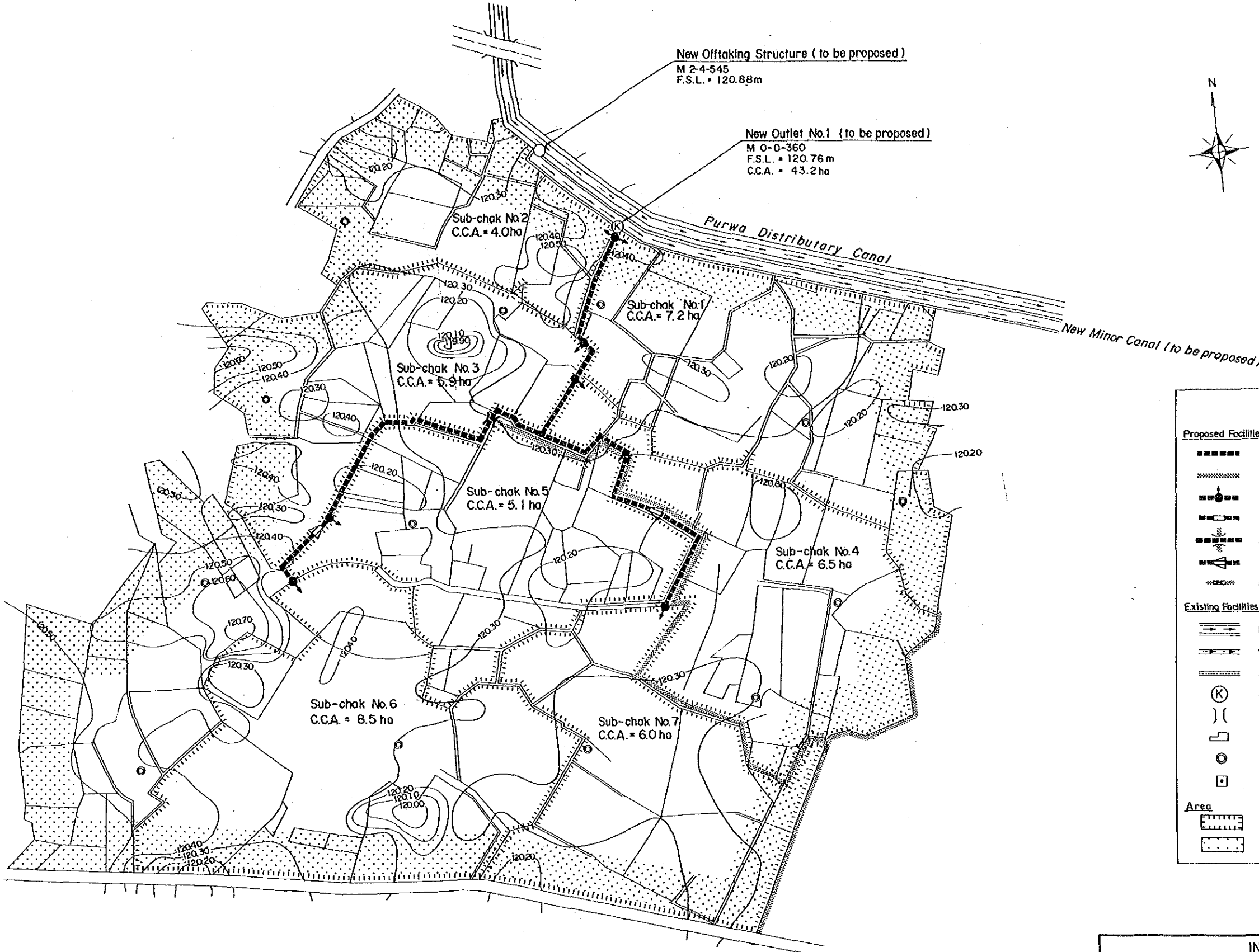


INDIA

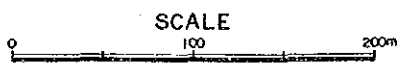
FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT

TITLE :
 SAMPLE LAYOUT OF ON-FARM FACILITIES
 OF BARHA MINOR CANAL
 IN SURSA AREA (2/2)

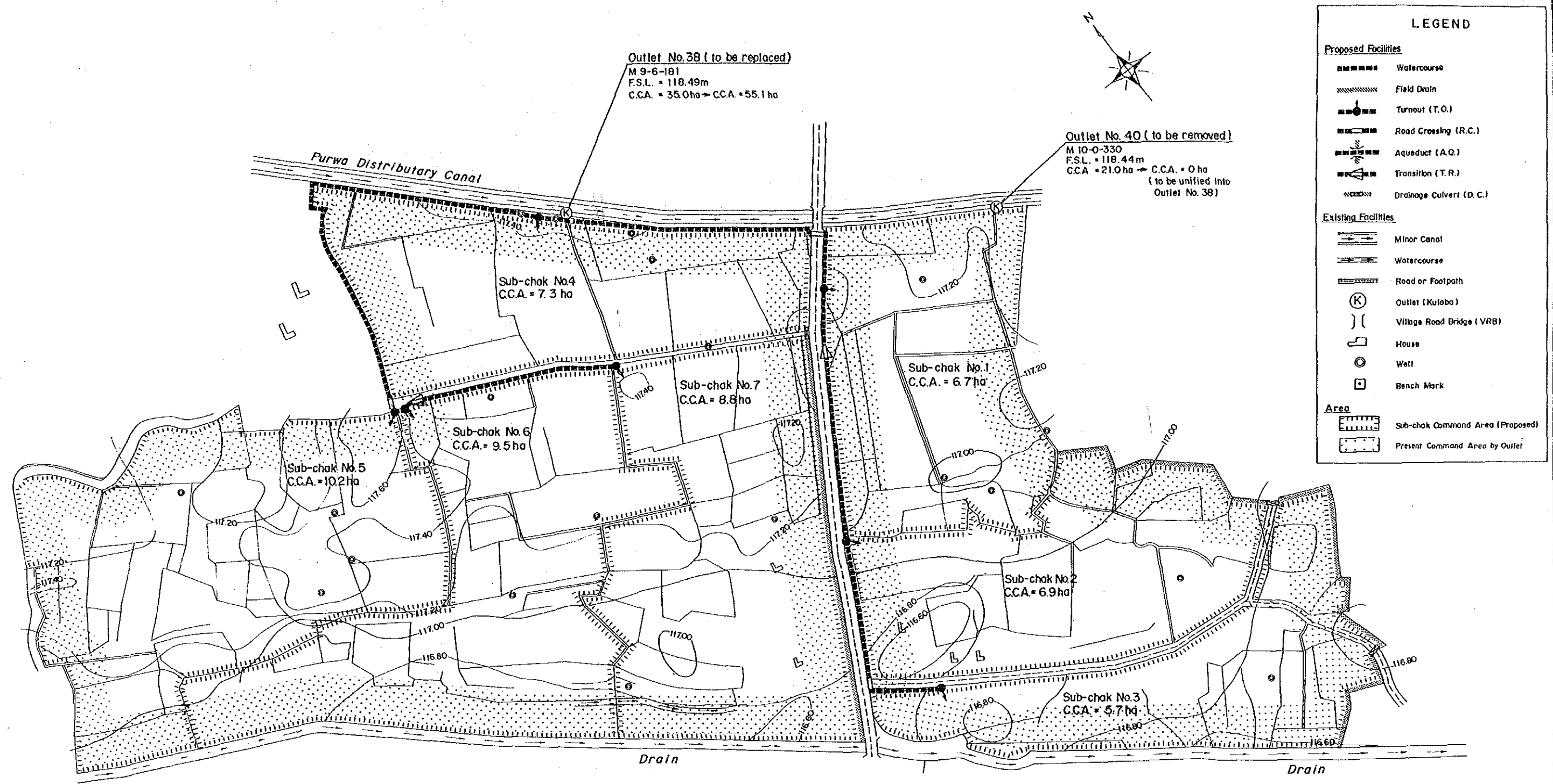
JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND	
Proposed Facilities	
	Watercourse
	Field Drain
	Turnout (T.O.)
	Road Crossing (R.C.)
	Aqueduct (A.Q.)
	Transition (T.R.)
	Drainage Culvert (D.C.)
Existing Facilities	
	Minor Canal
	Watercourse
	Road or Footpath
	Outlet (Kuloba)
	Village Road Bridge (VRB)
	House
	Well
	Bench Mark
Area	
	Sub-chak Command Area (Proposed)
	Present Command Area by Outlet



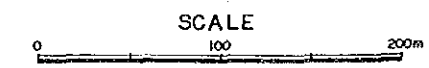
INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE:
 SAMPLE LAYOUT OF ON-FARM FACILITIES
 OF NEWLY PROPOSED MINOR CANAL
 IN PURWA AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY



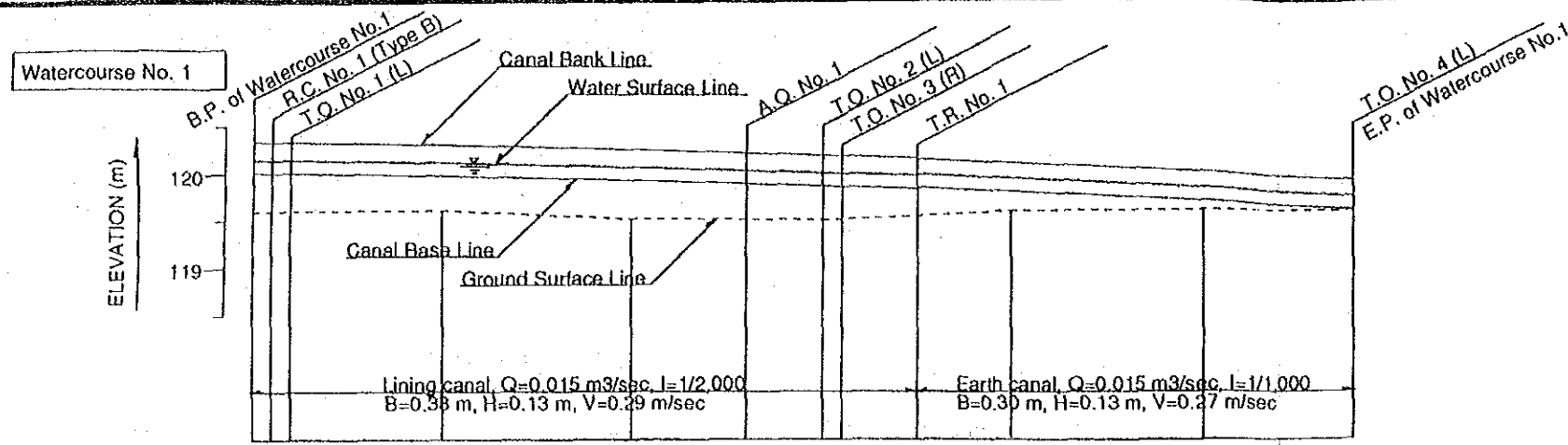
Outlet No. 38 (to be replaced)
 M 9-6-181
 F.S.L. = 118.49m
 C.C.A. = 35.0ha → C.C.A. = 55.1 ha

Outlet No. 40 (to be removed)
 M 10-0-330
 F.S.L. = 118.44m
 C.C.A. = 21.0ha → C.C.A. = 0 ha
 (to be unified into Outlet No. 38)

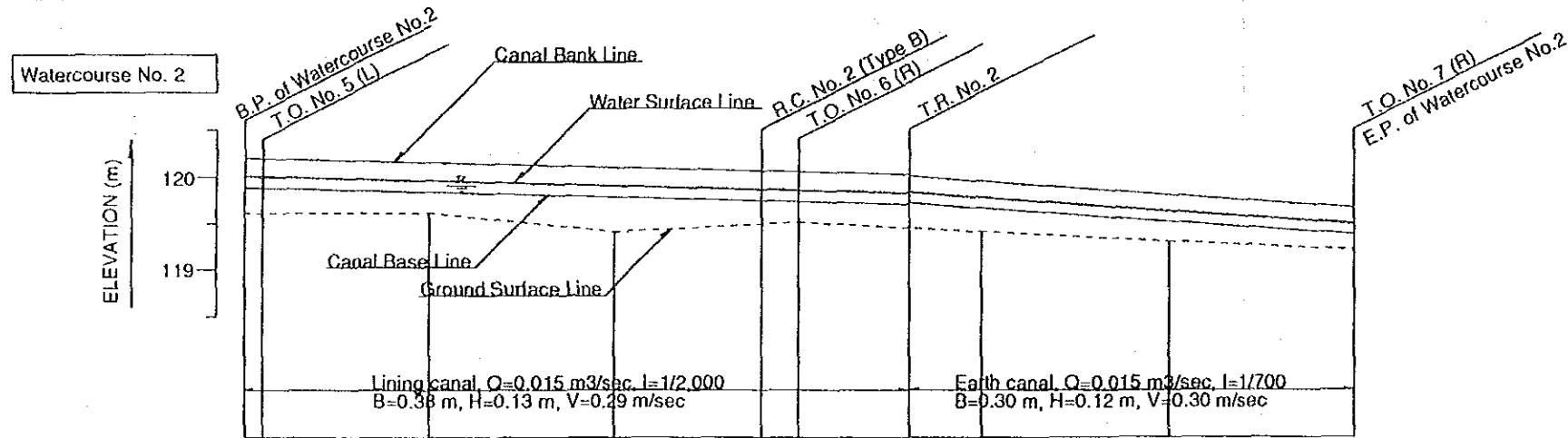
LEGEND	
Proposed Facilities	
	Watercourse
	Field Drain
	Turnout (T.O.)
	Road Crossing (R.C.)
	Aqueduct (A.Q.)
	Transition (T.R.)
	Drainage Culvert (D.C.)
Existing Facilities	
	Minor Canal
	Watercourse
	Road or Footpath
	Outlet (Kuloba)
	Village Road Bridge (VRB)
	House
	Well
	Bench Mark
Area	
	Sub-chak Command Area (Proposed)
	Present Command Area by Outlet



INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE:
 SAMPLE LAYOUT OF ON-FARM FACILITIES
 OF PURWA DISTRIBUTION CANAL
 IN PURWA AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY



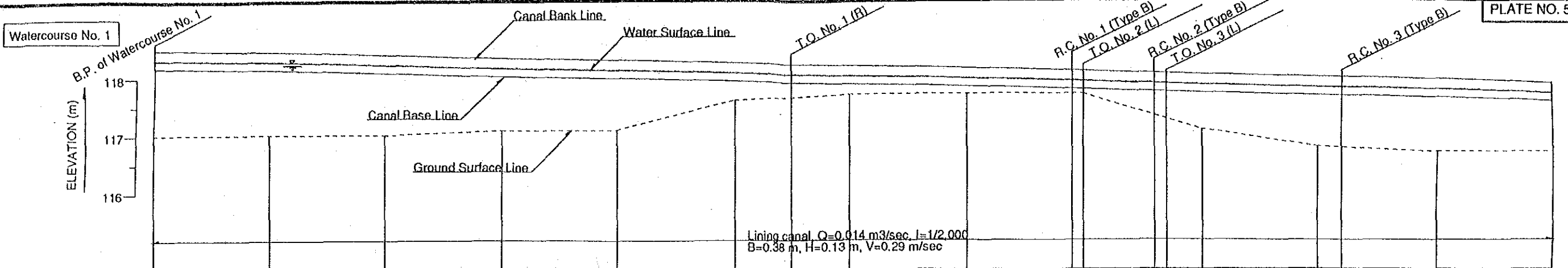
PROPOSED	CANAL BANK ELEVATION	120.34	120.34	120.29	120.24	120.21	120.19	120.17	120.15	120.10	119.92
	WATER SURFACE E.L.	120.15	120.15	120.10	120.05	120.02	120.00	119.98	119.85	119.83	119.75
PROPOSED	CANAL BASE ELEVATION	120.02	120.02	119.97	120.02	119.89	119.87	119.85	119.85	119.70	119.62
	ORIGINAL GROUND SURFACE E.L.	119.60	119.60	119.50	119.50	119.50	119.50	119.60	119.60	119.60	119.60
	DISTANCE	0	10	80	100	60	40	40	50	100	80
	STATION NO.	No. 0	+10	No. 1	No. 2	+60	No. 3	+50	No. 4	No. 5	-80



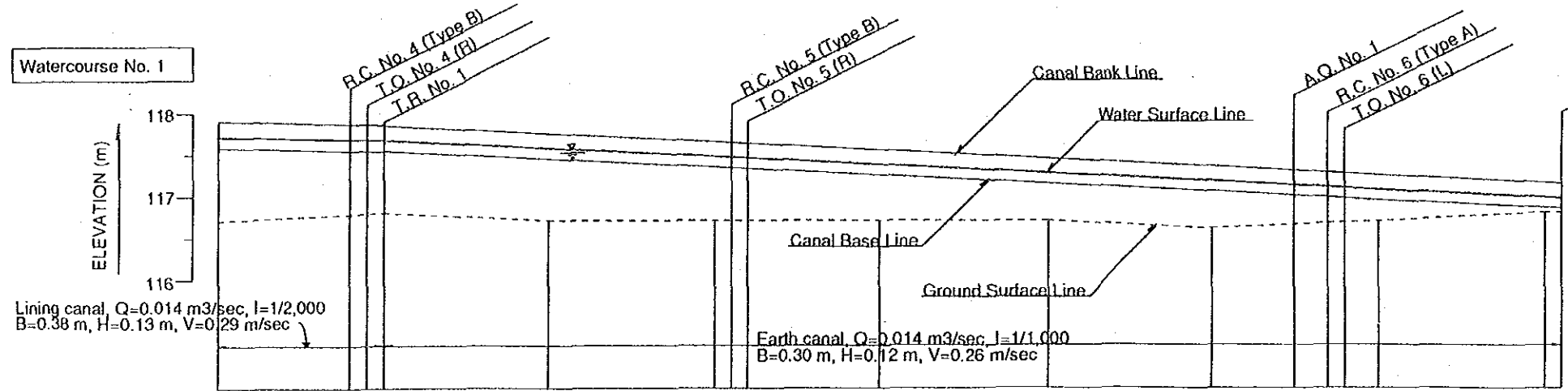
PROPOSED	CANAL BANK ELEVATION	120.19	120.14	120.09	120.05	120.04	120.01	119.98	119.80	119.66
	WATER SURFACE E.L.	120.00	119.95	119.90	119.86	119.85	119.82	119.76	119.62	119.48
PROPOSED	CANAL BASE ELEVATION	119.87	119.83	119.77	119.73	119.72	119.69	119.58	119.50	119.36
	ORIGINAL GROUND SURFACE E.L.	119.60	119.60	119.40	119.40	119.50	119.40	119.40	119.30	119.20
	DISTANCE	0	90	100	80	20	60	40	100	100
	STATION NO.	No. 0	No. 1	No. 2	+80	No. 3	+60	No. 4	No. 5	No. 6

LEGEND	
T.O. :	Turnout
R.C. :	Road Crossing
A.Q. :	Aqueduct
T.R. :	Transition
D.P. :	Drop

INDIA	
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT	
TITLE :	PROFILE OF WATERCOURSE OF MATI MINOR CANAL IN SAROJINI NAGAR AREA
JAPAN INTERNATIONAL COOPERATION AGENCY	



PROPOSED	CANAL BANK ELEVATION	118.50	118.45	118.40	118.35	118.30	118.25	118.23	118.20	118.15	118.11	118.10	118.07	118.05	118.00	117.99	117.95	117.90	
	WATER SURFACE E.L.	118.31	118.26	118.21	118.16	118.11	118.06	118.04	118.01	117.96	117.92	117.91	117.88	117.86	117.81	117.80	117.76	117.71	
PROPOSED	CANAL BASE ELEVATION	118.18	118.13	118.08	118.03	117.98	117.93	117.91	117.88	117.83	117.79	117.78	117.75	117.73	117.68	117.67	117.63	117.58	
	ORIGINAL GROUND SURFACE E.L.	117.00	117.00	117.00	117.10	117.10	117.60	117.70	117.70	117.70	117.70	117.70	117.70	117.70	116.80	116.80	116.70	116.70	
DISTANCE		0	100	100	100	100	100	50	50	100	90	10	60	10	30	100	20	80	100
STATION NO.		No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	+50	No. 6	No. 7	No. 8	+60 +70	No. 9	No. 10	+20	No. 11	No. 12		



PROPOSED	CANAL BANK ELEVATION	117.90	117.86	117.84	117.74	117.64	117.54	117.44	117.34	117.29	117.24	117.14	117.13			
	WATER SURFACE E.L.	117.71	117.67	117.66	117.56	117.46	117.36	117.26	117.16	117.11	117.06	116.96	116.95			
PROPOSED	CANAL BASE ELEVATION	117.58	117.54	117.54	117.44	117.34	117.24	117.14	117.04	116.99	116.94	116.84	116.83			
	ORIGINAL GROUND SURFACE E.L.	116.70	116.80	116.80	116.70	116.70	116.70	116.70	116.60	116.60	116.70	116.80	116.80			
DISTANCE		0	80	10	100	100	10	10	80	100	50	20	10	20	100	10
STATION NO.		No. 12	+80 +90	No. 13	No. 14	+10 +20	No. 15	No. 16	No. 17	No. 18	+50 +70 +80	No. 19	No. 20			

LEGEND

- T.O. : Turnout
- R.C. : Road Crossing
- A.Q. : Aqueduct
- T.R. : Transition
- D.P. : Drop

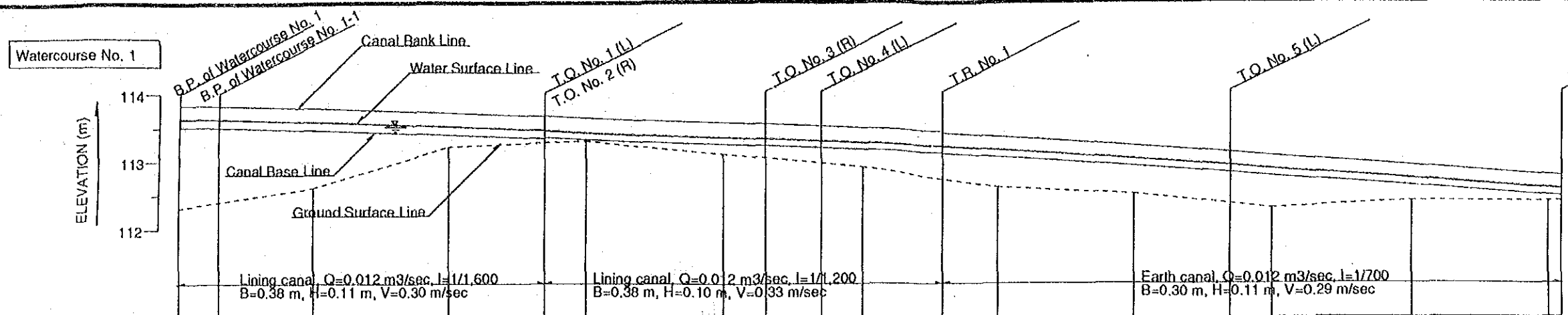
INDIA

**FEASIBILITY STUDY ON
IRRIGATION AND DRAINAGE DEVELOPMENT OF
SHARDA CANAL CAD PROJECT**

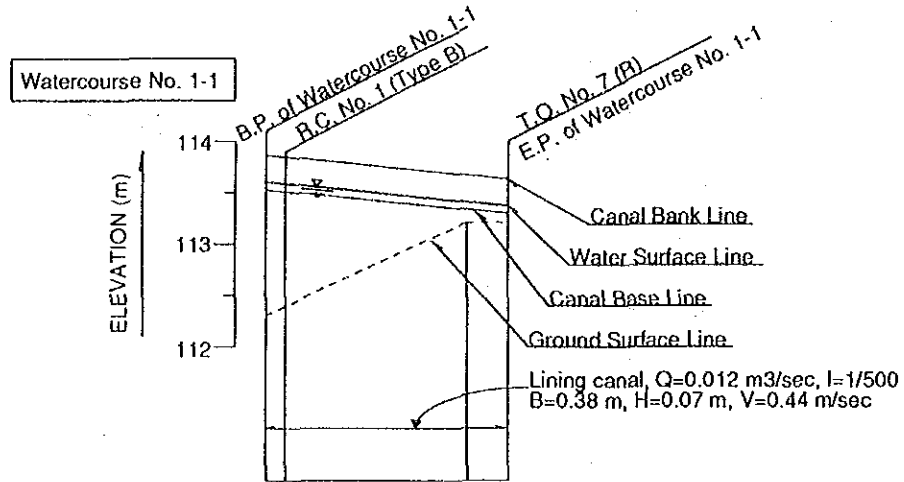
TITLE:

**PROFILE OF WATERCOURSE
OF MANOHARPUR MINOR CANAL
IN SAROJINI NAGAR AREA**

JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED	CANAL BANK ELEVATION	113.83	113.81	113.77	113.71	113.66	113.67	113.65	113.56	113.54	113.50	113.48	113.43	113.40	113.34	113.20	113.10	113.01	112.96	112.91	112.77	
	WATER SURFACE E.L.	113.62	113.60	113.56	113.50	113.45	113.35	113.43	113.34	113.32	113.28	113.26	113.21	113.21	113.15	113.01	112.91	112.87	112.87	112.72	112.58	112.57
	CANAL BASE ELEVATION	113.51	113.49	113.45	113.39	113.34	113.35	113.33	113.24	113.22	113.18	113.16	113.11	113.10	113.04	112.90	112.80	112.66	112.66	112.61	112.47	112.46
ORIGINAL GROUND SURFACE E.L.	112.30		112.60	113.20	113.30	113.30	113.30	113.10	113.10	112.90	112.90	112.60	112.60	112.60	112.50	112.50	112.30	112.30	112.30	112.40	112.40	112.40
DISTANCE	0	30	70	100	70	30	100	30	40	30	60	40	100	70	30	100	70	30	100	10	10	10
STATION NO.	No. 0	+30	No. 1	No. 2	+70	No. 3	No. 4	+30	+70	No. 5	+60	No. 6	No. 7	+70	No. 8	No. 9	No. 10	+10				



PROPOSED	CANAL BANK ELEVATION	113.85	113.83	113.65	113.61
	WATER SURFACE E.L.	113.60	113.58	113.40	113.36
	CANAL BASE ELEVATION	113.53	113.51	113.33	113.29
ORIGINAL GROUND SURFACE E.L.	112.30	113.20	113.20	113.20	
DISTANCE	0	10	90	20	
STATION NO.	No. 0	+10	No. 1	+20	

LEGEND

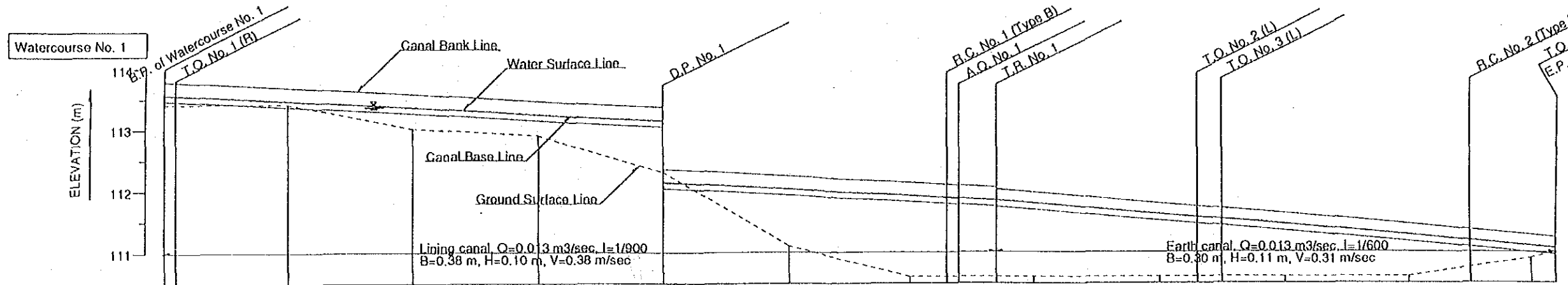
T.O. : Turnout
R.C. : Road Crossing
A.Q. : Aqueduct
T.R. : Transition
D.P. : Drop

INDIA

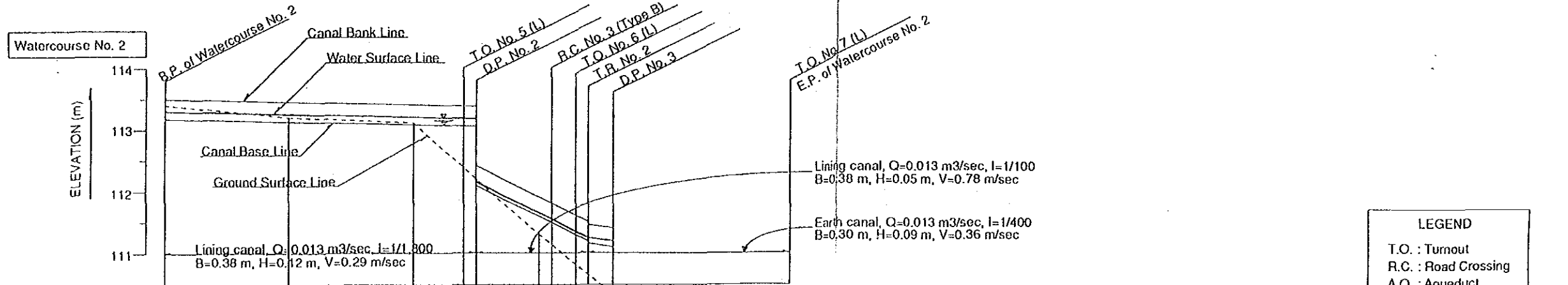
FEASIBILITY STUDY ON
IRRIGATION AND DRAINAGE DEVELOPMENT OF
SHARDA CANAL CAD PROJECT

TITLE :
PROFILE OF WATERCOURSE
OF SATORN MINOR CANAL
IN SATORN AREA

JAPAN INTERNATIONAL COOPERATION AGENCY



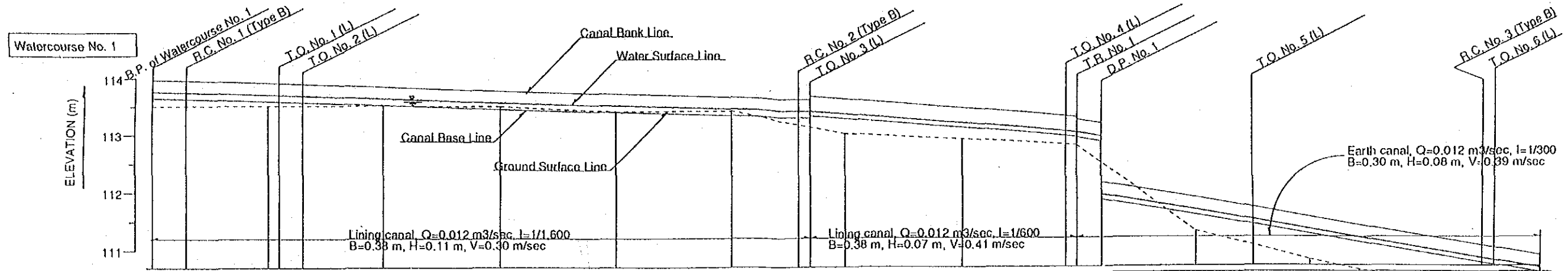
PROPOSED	CANAL BANK ELEVATION	113.78	113.77	113.67	113.56	113.45	113.34	112.23	112.12	111.90	111.86	112.08	112.07	112.04	111.96	111.79	111.74	111.71	111.63	111.46	111.38	111.29	111.25
	WATER SURFACE E.L.	113.56	113.55	113.45	113.34	113.23	113.12	112.12	112.01	111.90	111.86	111.85	112.07	111.82	111.77	111.60	111.55	111.52	111.44	111.27	111.19	111.10	111.07
PROPOSED	CANAL BASE ELEVATION	113.46	113.25	113.35	113.24	113.13	113.02	112.02	111.80	111.75	111.75	111.71	111.71	111.71	111.58	111.49	111.44	111.41	111.33	111.16	111.09	110.99	110.95
	ORIGINAL GROUND SURFACE E.L.	113.40	113.40	113.40	113.00	112.90	112.30	111.10	110.60	110.60	110.60	110.60	110.60	110.60	110.60	110.60	110.60	110.60	110.60	110.60	110.60	110.90	111.00
DISTANCE		0	10	90	100	100	100	100	100	30	10	30	30	30	100	30	20	50	100	50	50	20	
STATION NO.		No. 0		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	+30	+40	+70	No. 7	No. 8	+30	+50	No. 9	No. 10	+50	No. 11	+20		



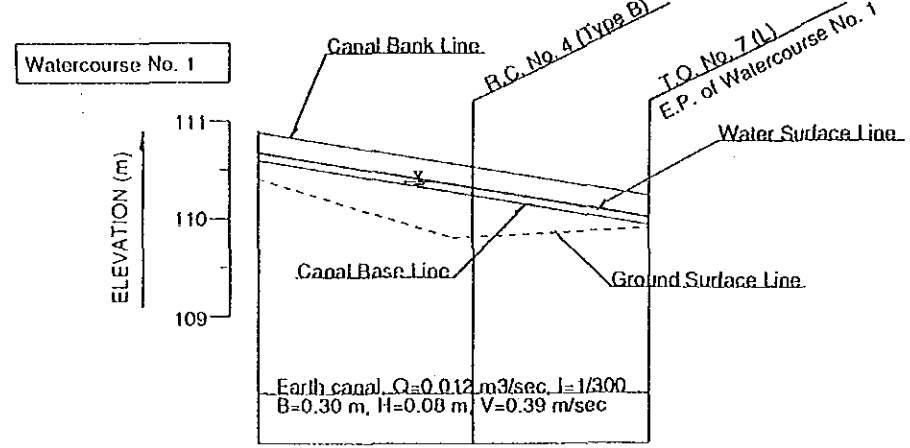
PROPOSED	CANAL BANK ELEVATION	113.50	113.44	113.39	113.37	113.34	112.41	111.91	111.81	111.61	111.51	111.45	111.40	110.40	110.30	110.05
	WATER SURFACE E.L.	113.30	113.24	113.19	113.17	113.14	112.14	111.64	111.54	111.34	111.24	111.19	111.19	110.19	110.09	109.84
PROPOSED	CANAL BASE ELEVATION	113.18	113.12	113.07	113.05	113.02	112.09	111.59	111.49	111.29	111.19	111.15	111.10	110.10	110.00	109.75
	ORIGINAL GROUND SURFACE E.L.	113.40	113.20	113.10	113.10	113.10	111.30	111.30	111.30	111.30	111.30	111.30	111.30	111.30	110.70	109.60
DISTANCE		0	100	100	40	50	50	10	20	10	20	40	100			
STATION NO.		No. 0	No. 1	No. 2	+40	+50	No. 3	+10	+30	+40	+50	No. 4	No. 5			

LEGEND
 T.O. : Turnout
 R.C. : Road Crossing
 A.Q. : Aqueduct
 T.R. : Transition
 D.P. : Drop

INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE :
 PROFILE OF WATERCOURSE
 OF MAURAWAN DISTRIBUTION CANAL (NO.180)
 IN SATAON AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY



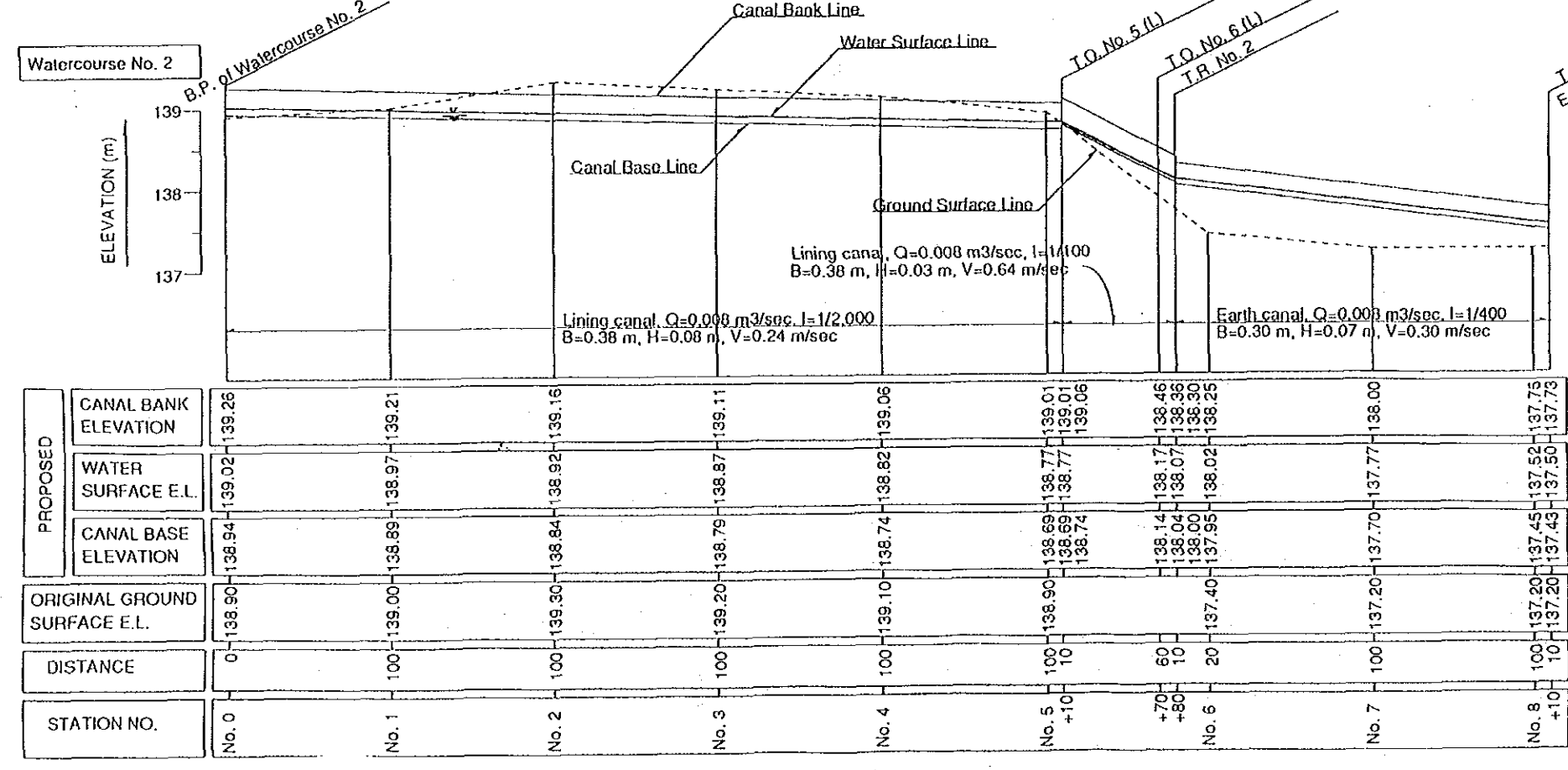
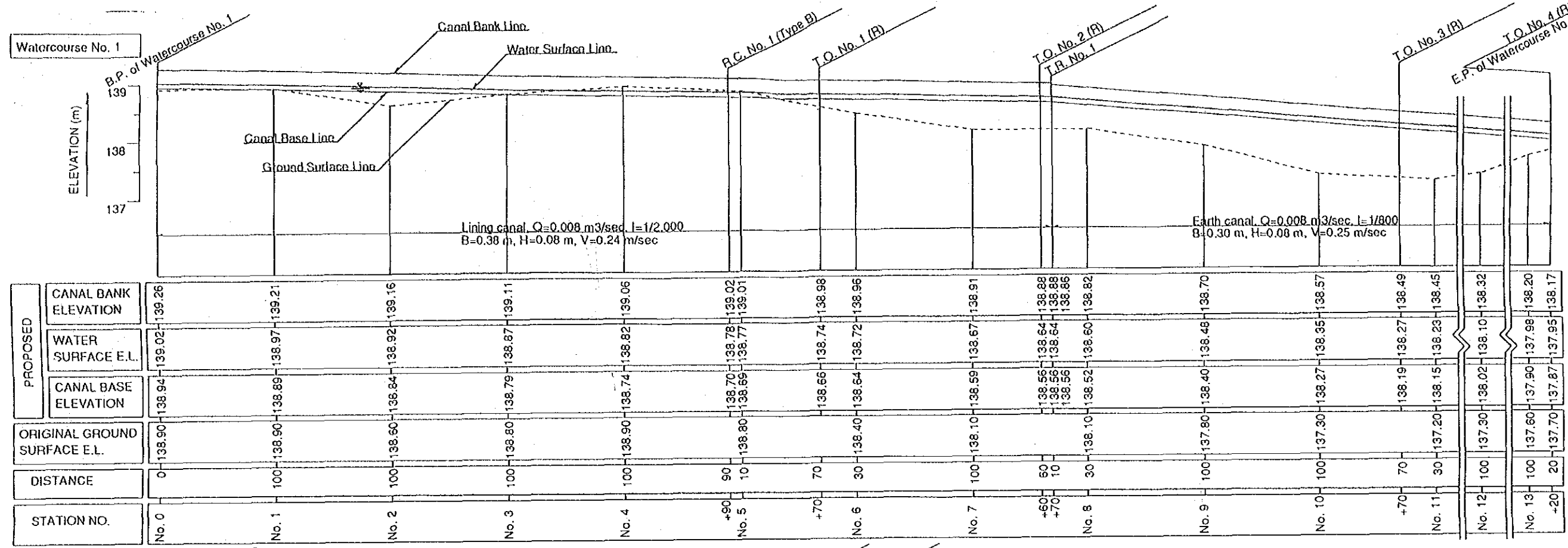
PROPOSED	CANAL BANK ELEVATION	113.96	113.94	113.90	113.88	113.84	113.77	113.71	113.65	113.61	113.60	113.64	113.59	113.42	113.27	113.26	113.23	113.16	112.16	111.89	111.73	111.56	111.23	111.06	111.03	110.89	
	WATER SURFACE E.L.	113.75	113.73	113.69	113.68	113.63	113.56	113.50	113.44	113.42	113.39	113.32	113.34	113.27	113.02	113.01	113.23	112.94	112.94	111.94	111.67	111.51	111.34	111.01	110.84	110.81	110.67
	CANAL BASE ELEVATION	113.64	113.62	113.58	113.57	113.52	113.45	113.39	113.33	113.33	113.29	113.28	113.32	113.27	112.95	112.94	112.93	112.86	111.86	111.59	111.43	111.26	111.03	110.93	110.76	110.73	110.59
ORIGINAL GROUND SURFACE E.L.	113.50	113.50	113.50	113.50	113.50	113.40	113.40	113.40	113.40	113.40	113.29	113.28	113.32	113.00	112.90	112.80	112.80	112.86	111.86	111.30	111.59	111.26	111.00	110.40	110.40	110.40	110.40
DISTANCE		30	70	10	20	70	100	100	100	60	10	30	100	90	10	20	80	50	50	80	50	50	100	50	10	40	
STATION NO.		+30	No. 1	+10	+30	No. 2	No. 3	No. 4	No. 5	+60	+70	No. 6	No. 7	+80	No. 8	+20	No. 9	+50	No. 10	No. 11	+50	+60	No. 12				



PROPOSED	CANAL BANK ELEVATION	110.89	110.86	110.83
	WATER SURFACE E.L.	110.67	110.34	110.31
	CANAL BASE ELEVATION	110.59	110.26	110.23
ORIGINAL GROUND SURFACE E.L.	110.40	109.80	109.90	
DISTANCE	40	100	10	
STATION NO.	No. 12	No. 13	No. 14	

LEGEND
 T.O. : Turnout
 R.C. : Road Crossing
 A.Q. : Aqueduct
 T.R. : Transition
 D.P. : Drop

INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE :
 PROFILE OF WATERCOURSE
 OF MAURAWAN DISTRIBUTION CANAL (NO.183)
 IN SATAON AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY



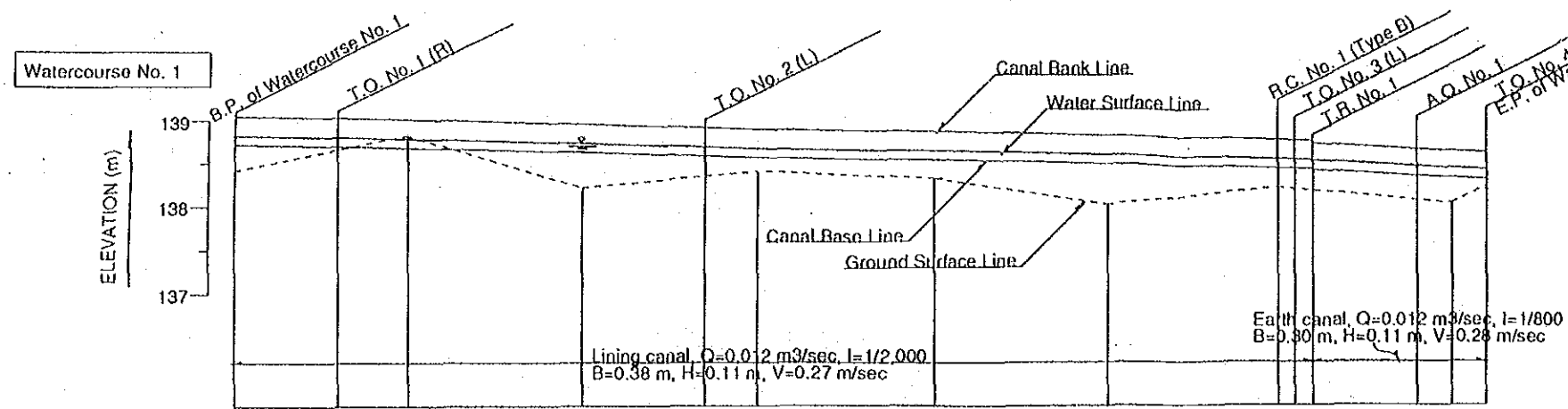
LEGEND
 T.O. : Turnout
 R.C. : Road Crossing
 A.Q. : Aqueduct
 T.R. : Transition
 D.P. : Drop

INDIA

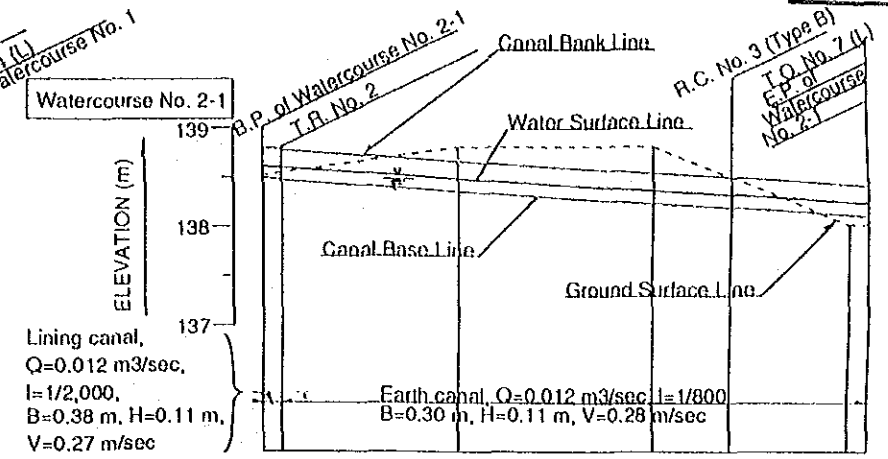
FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT

TITLE :
 PROFILE OF WATERCOURSE
 OF BARHA MINOR CANAL (NO. 6A)
 IN SURSA AREA

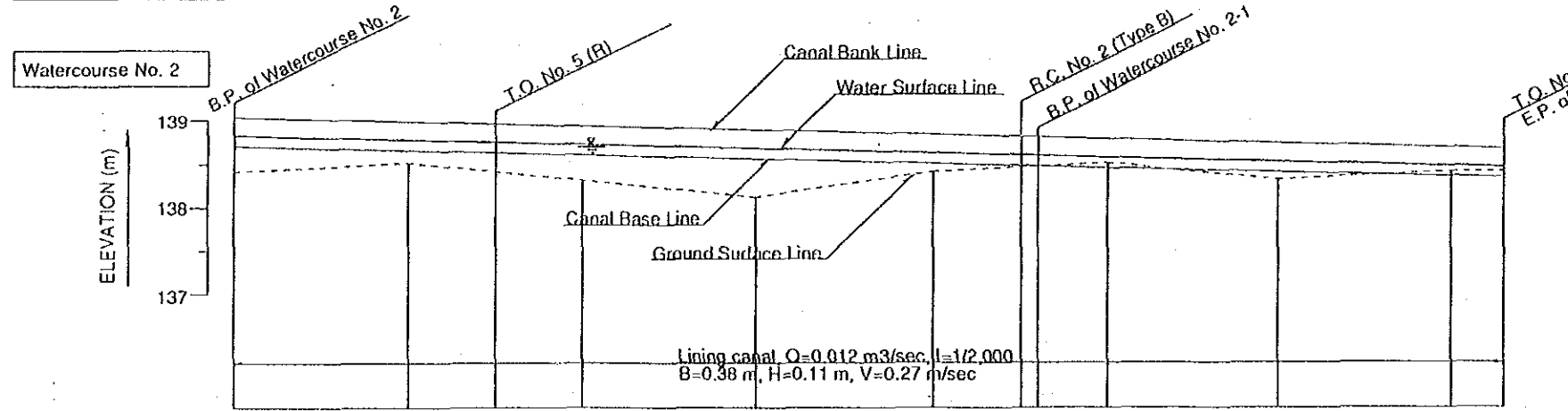
JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED	CANAL BANK ELEVATION	139.02	138.99	138.97	138.92	138.89	138.87	138.82	138.77	138.72	138.72	138.71	138.69	138.62	138.59	138.57
	WATER SURFACE E.L.	138.81	138.78	138.76	138.71	138.68	138.66	138.61	138.56	138.51	138.51	138.50	138.49	138.43	138.40	138.38
	CANAL BASE ELEVATION	138.70	138.67	138.65	138.60	138.57	138.55	138.50	138.45	138.40	138.39	138.29	138.27	138.32	138.29	138.27
ORIGINAL GROUND SURFACE E.L.	138.40	138.80	138.20	138.20	138.40	138.30	138.30	138.00	138.20	138.20	138.00	138.20	138.20	138.00	138.20	138.20
DISTANCE	0	60	40	100	70	30	100	100	100	10	10	60	20	20		
STATION NO.	No. 0	+60	No. 1	No. 2	+70	No. 3	No. 4	No. 5	No. 6	+10	+20	+60	No. 7	+20		



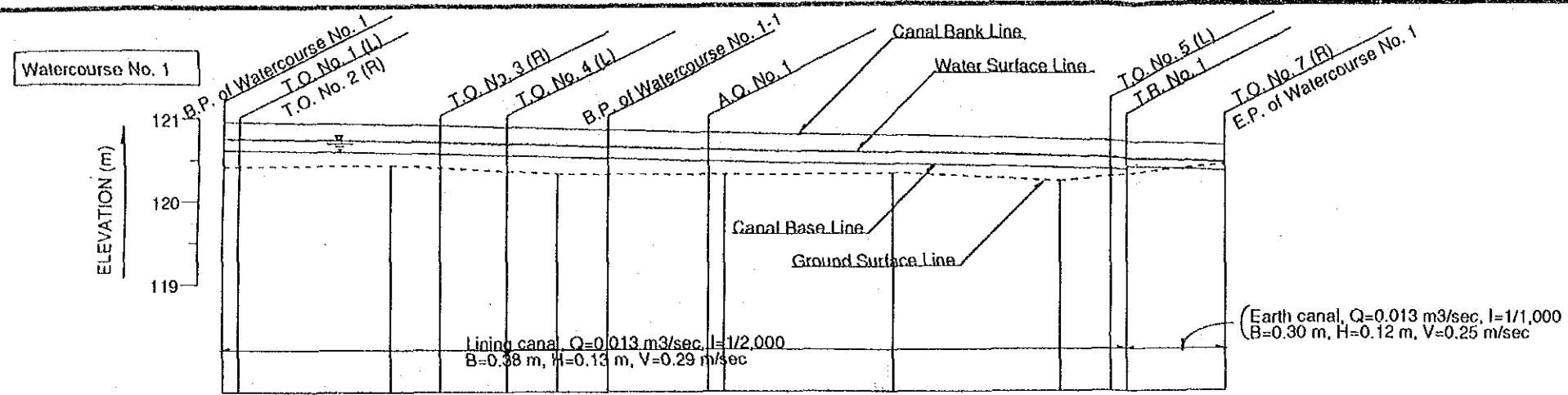
PROPOSED	CANAL BANK ELEVATION	138.79	138.77	138.66	138.53	138.48	138.41	138.40
	WATER SURFACE E.L.	138.56	138.56	138.47	138.34	138.29	138.23	138.21
	CANAL BASE ELEVATION	138.47	138.47	138.36	138.23	138.18	138.11	138.10
ORIGINAL GROUND SURFACE E.L.	138.50	138.80	138.80	138.80	138.00	138.00	138.00	138.00
DISTANCE	0	10	90	100	40	60	10	
STATION NO.	No. 0	+10	No. 1	No. 2	-40	No. 3	-10	



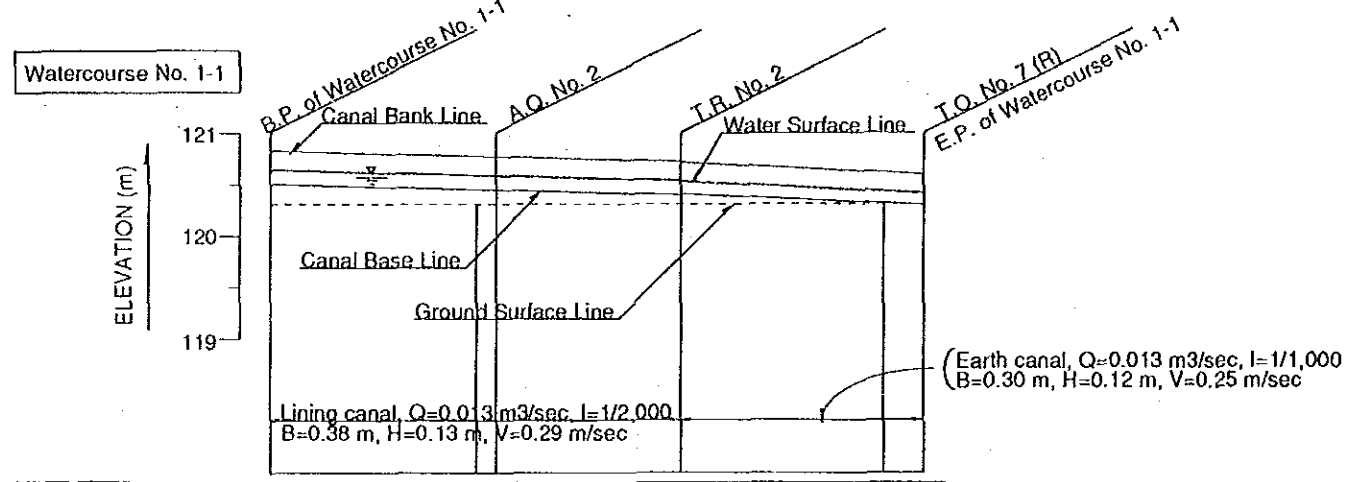
PROPOSED	CANAL BANK ELEVATION	139.02	138.97	138.95	138.92	138.87	138.82	138.80	138.77	138.72	138.67	138.66
	WATER SURFACE E.L.	138.81	138.76	138.74	138.71	138.66	138.61	138.59	138.56	138.51	138.46	138.45
	CANAL BASE ELEVATION	138.70	138.65	138.63	138.60	138.55	138.50	138.47	138.45	138.40	138.35	138.34
ORIGINAL GROUND SURFACE E.L.	138.40	138.50	138.10	138.30	138.40	138.40	138.30	138.40	138.40	138.40	138.40	138.40
DISTANCE	0	100	50	50	100	100	50	10	40	100	30	
STATION NO.	No. 0	No. 1	+50	No. 2	No. 3	No. 4	+50	+60	No. 5	No. 6	No. 7	+30

LEGEND
 T.O. : Turnout
 R.C. : Road Crossing
 A.Q. : Aqueduct
 T.R. : Transition
 D.P. : Drop

INDIA
 FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT
 TITLE :
 PROFILE OF WATERCOURSE
 OF BARHA MINOR CANAL (NO. 9A)
 IN SURSA AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY



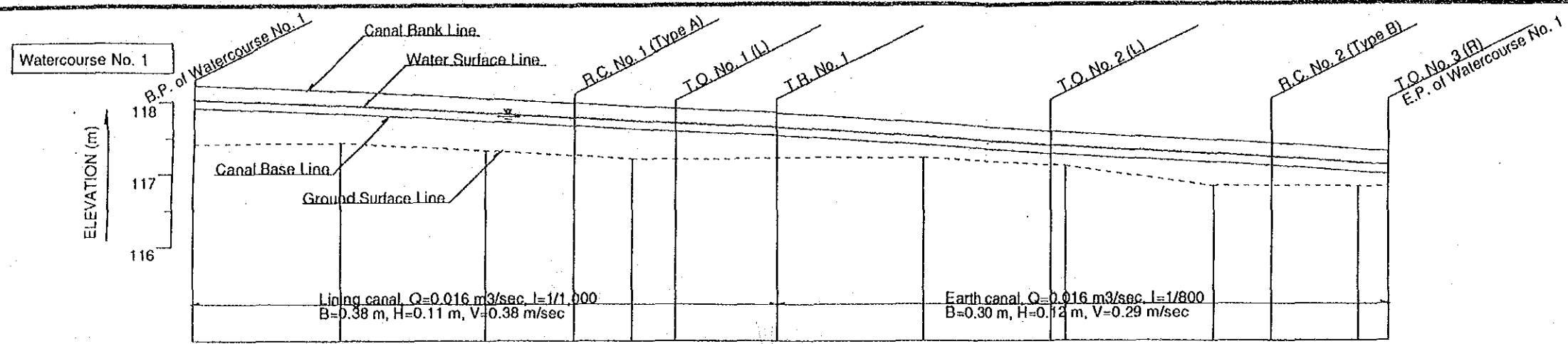
PROPOSED	CANAL BANK ELEVATION	120.98 120.93	120.88	120.87	120.85	120.83	120.82	120.79 120.78	120.73	120.68	120.67 120.67	120.66	120.60
	WATER SURFACE E.L.	120.74 120.74	120.69	120.68	120.66	120.64	120.63	120.60 120.59	120.54	120.49	120.48 120.48	120.48	120.42
	CANAL BASE ELEVATION	120.61 120.61	120.56	120.55	120.53	120.51	120.50	120.47 120.46	120.41	120.36	120.35 120.35	120.35	120.30
ORIGINAL GROUND SURFACE E.L.	120.40	120.40	120.40	120.40	120.30	120.30	120.30	120.30	120.30	120.20	120.20	120.20	120.40
DISTANCE	0 10	90	30	40	30	30	60 10	100	100	30 10	60		
STATION NO.	No. 0 +10	No. 1 +30	+70	No. 2 +30	+90	No. 3 +40	No. 4	No. 5	+30 +40	No. 6			



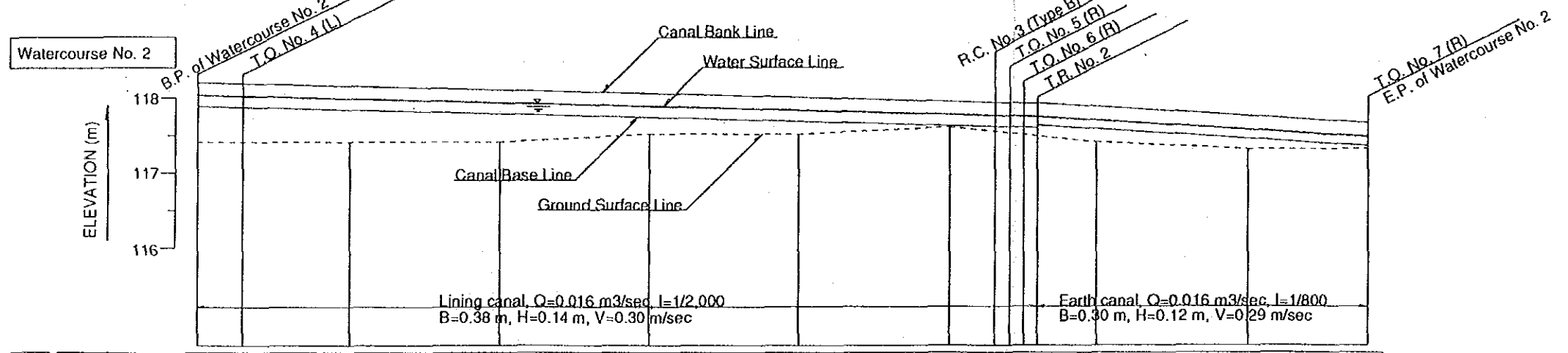
PROPOSED	CANAL BANK ELEVATION	120.82 120.82	120.77 120.77	120.72 120.71	120.61 120.59
	WATER SURFACE E.L.	120.63 120.63	120.58	120.53	120.43 120.41
	CANAL BASE ELEVATION	120.50 120.50	120.45 120.45	120.40 120.41	120.31 120.29
ORIGINAL GROUND SURFACE E.L.	120.30	120.30	120.30	120.30	120.30
DISTANCE	0	100 10	90	100 20	
STATION NO.	No. 0	No. 1 +10	No. 2	No. 3 +20	

LEGEND	
T.O. :	Turnout
R.C. :	Road Crossing
A.Q. :	Aqueduct
T.R. :	Transition
D.P. :	Drop

INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE : PROFILE OF WATERCOURSE OF NEWLY PROPOSED MINOR CANAL IN PURWA AREA
JAPAN INTERNATIONAL COOPERATION AGENCY



PROPOSED	CANAL BANK ELEVATION	118.23	118.13	118.03	117.97	117.93	117.90	117.83	117.80	117.68	117.56	117.55	117.43	117.38	117.30	117.28
	WATER SURFACE E.L.	118.02	117.92	117.82	117.76	117.72	117.69	117.62	117.50	117.50	117.38	117.37	117.25	117.20	117.12	117.10
	CANAL BASE ELEVATION	117.91	117.81	117.71	117.65	117.61	117.58	117.51	117.50	117.38	117.26	117.25	117.13	117.08	117.00	116.98
ORIGINAL GROUND SURFACE E.L.	117.40	117.40	117.30	117.20	117.20	117.20	117.20	117.20	117.20	117.20	117.10	116.80	116.80	116.80	116.80	116.80
DISTANCE	0	100	100	60	40	30	70	100	90	10	100	40	60	20		
STATION NO.	No. 0	No. 1	No. 2	+60	No. 3	+30	No. 4	No. 5	+90	No. 6	No. 7	+40	No. 8	+20		



PROPOSED	CANAL BANK ELEVATION	118.20	118.19	118.15	118.10	118.05	118.00	117.95	117.94	117.76	117.69	117.57	117.75	117.65
	WATER SURFACE E.L.	118.02	118.01	117.97	117.92	117.87	117.82	117.77	117.76	117.75	117.69	117.57	117.47	
	CANAL BASE ELEVATION	117.88	118.01	117.89	117.78	117.73	117.68	117.63	117.62	117.62	117.57	117.45	117.35	
ORIGINAL GROUND SURFACE E.L.	117.40	117.40	117.40	117.40	117.50	117.50	117.60	117.60	117.60	117.40	117.30	117.30	117.30	
DISTANCE	0	30	70	100	100	100	100	30	10	10	40	100	80	
STATION NO.	No. 0	+30	No. 1	No. 2	No. 3	No. 4	No. 5	+30	+40	+60	No. 6	No. 7	+80	

LEGEND

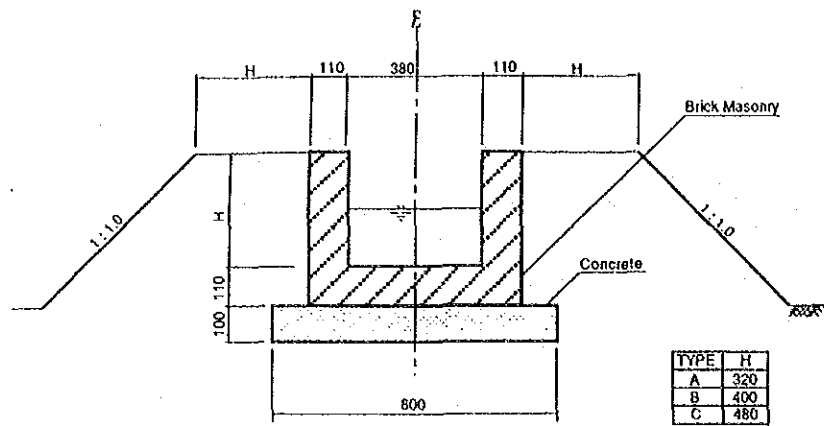
T.O. : Turnout
 R.C. : Road Crossing
 A.Q. : Aqueduct
 T.R. : Transition
 D.P. : Drop

INDIA

FEASIBILITY STUDY ON
 IRRIGATION AND DRAINAGE DEVELOPMENT OF
 SHARDA CANAL CAD PROJECT

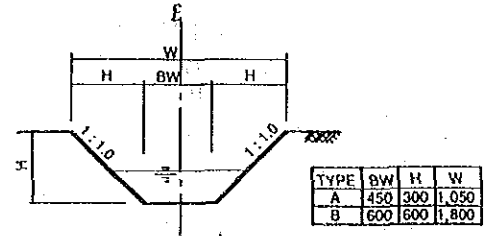
TITLE :
 PROFILE OF WATERCOURSE
 OF PURWA DISTRIBUTARY CANAL
 IN PURWA AREA

JAPAN INTERNATIONAL COOPERATION AGENCY



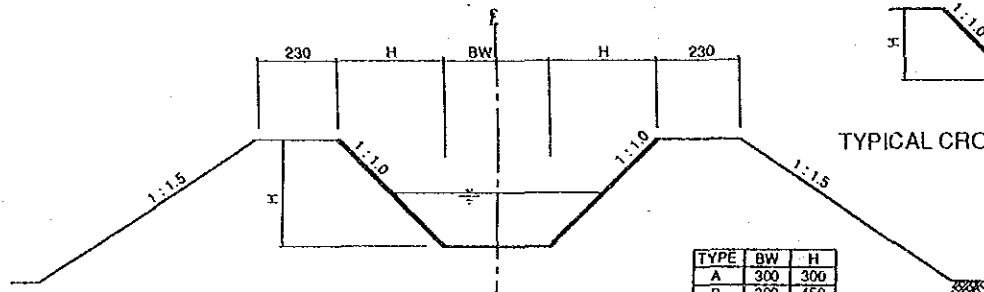
TYPE	H
A	320
B	400
C	480

TYPICAL CROSS SECTION OF BRICK LINED WATERCOURSE (No Scale)



TYPE	BW	H	W
A	450	300	1,050
B	600	500	1,800

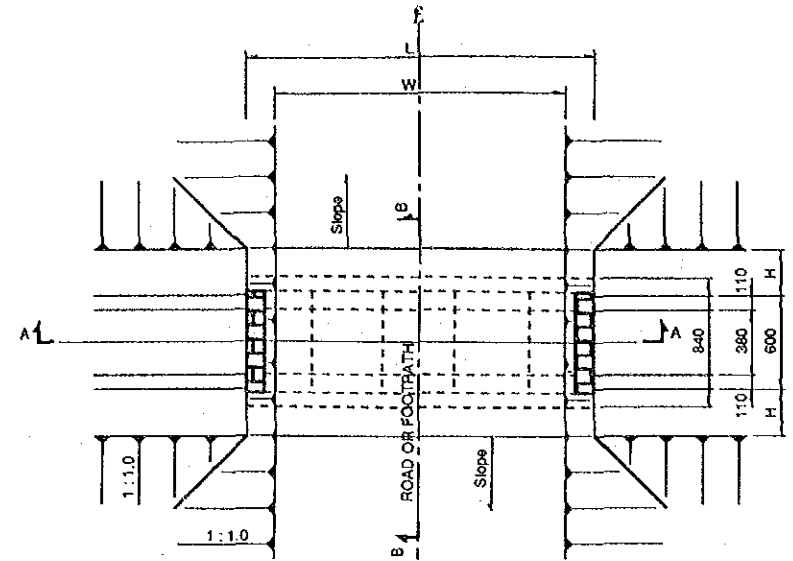
TYPICAL CROSS SECTION OF FIELD DRAIN (No Scale)



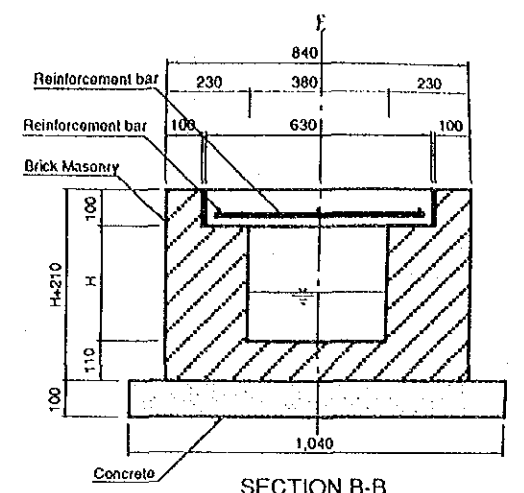
TYPE	BW	H
A	300	300
B	300	450
C	450	450

TYPICAL CROSS SECTION OF EARTHEN WATERCOURSE (No Scale)

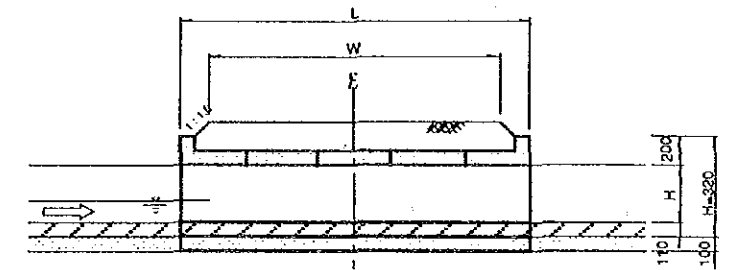
TYPICAL CROSS SECTION OF ON-FARM CANALS



PLAN (No Scale)



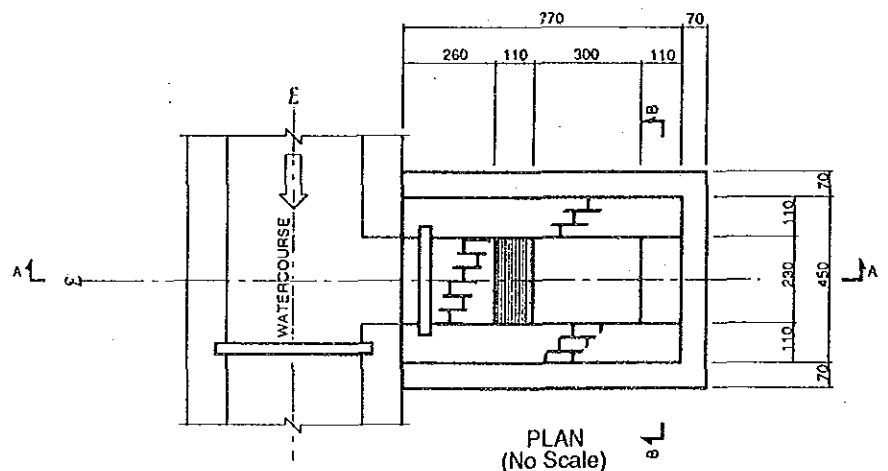
SECTION B-B (No Scale)



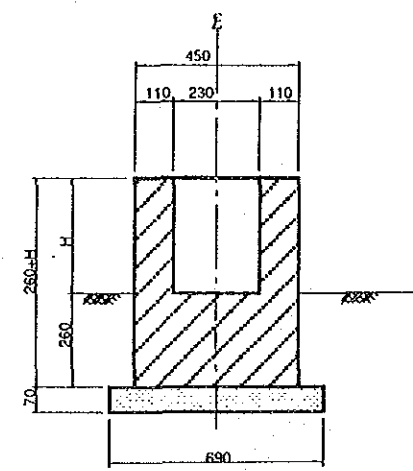
SECTION A-A (No Scale)

TYPE	W
A	4,000
B	2,000

ROAD CROSSING



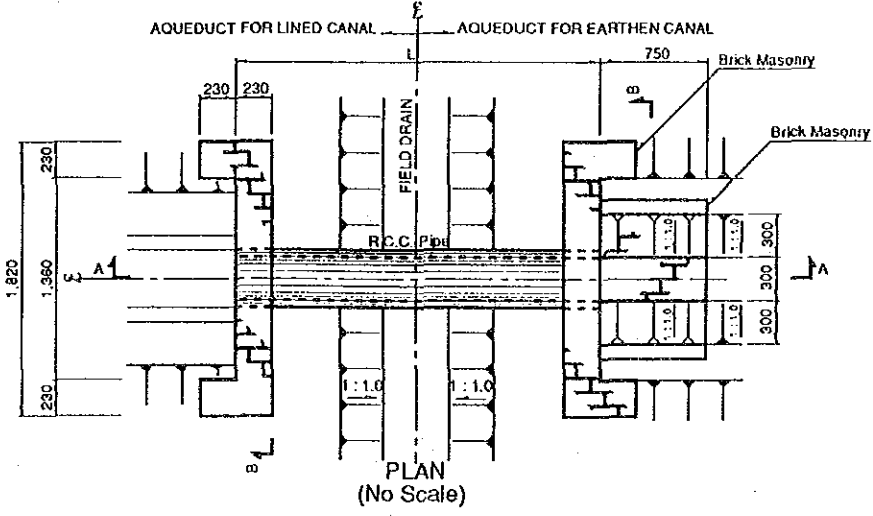
PLAN (No Scale)



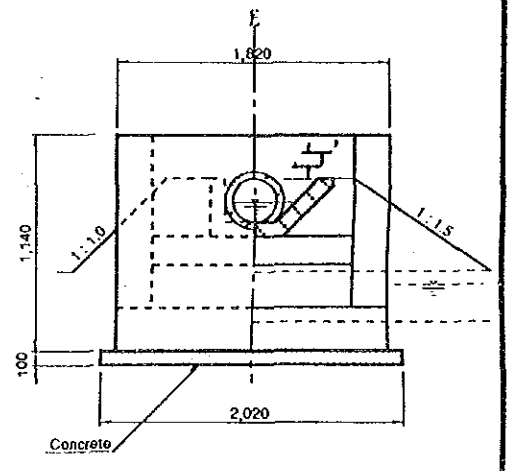
SECTION B-B (No Scale)

TYPE	H
A	320
B	400
C	480

TURNOUT

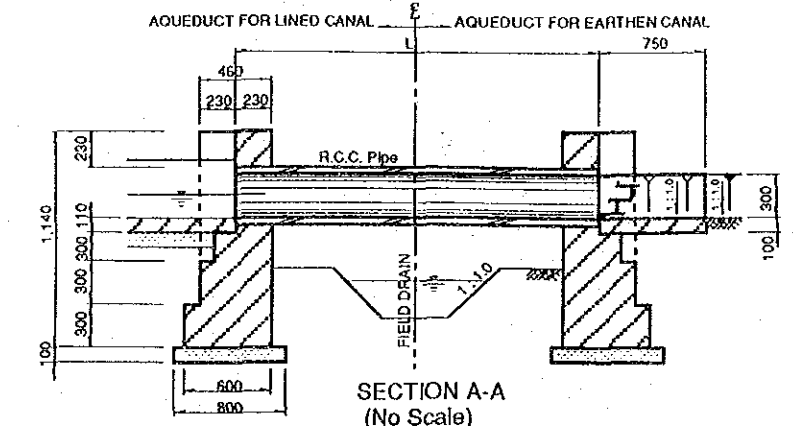


PLAN (No Scale)



SECTION B-B (No Scale)

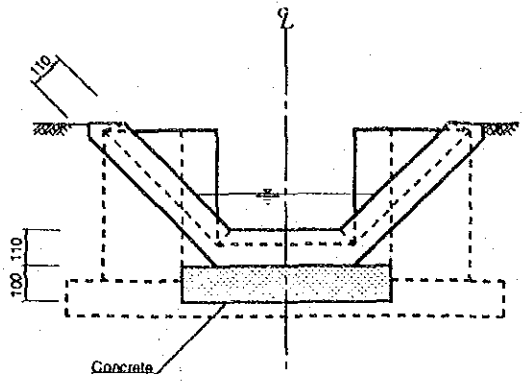
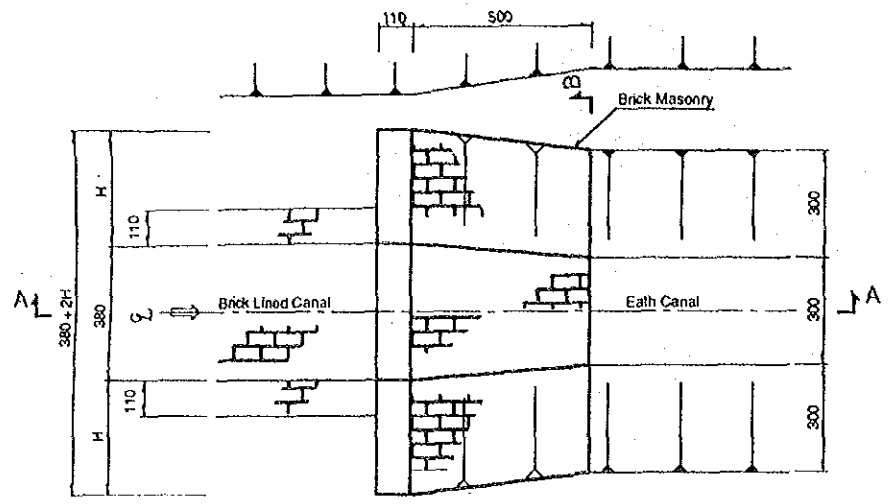
AQUEDUCT



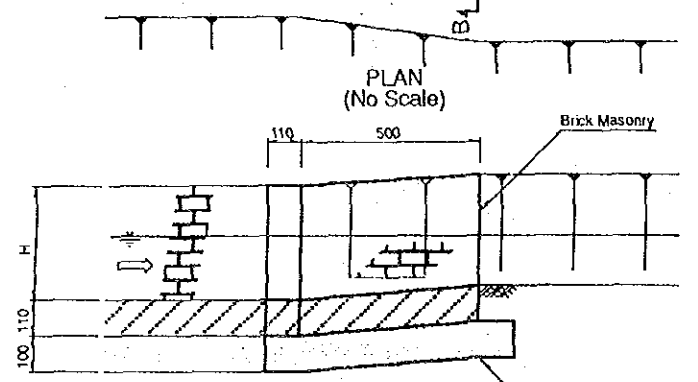
SECTION A-A (No Scale)

N.B. : Plastering is to be made on external surface of brick masonry works.

INDIA
FEASIBILITY STUDY ON IRRIGATION AND DRAINAGE DEVELOPMENT OF SHARDA CANAL CAD PROJECT
TITLE :
ON-FARM FACILITIES (1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY

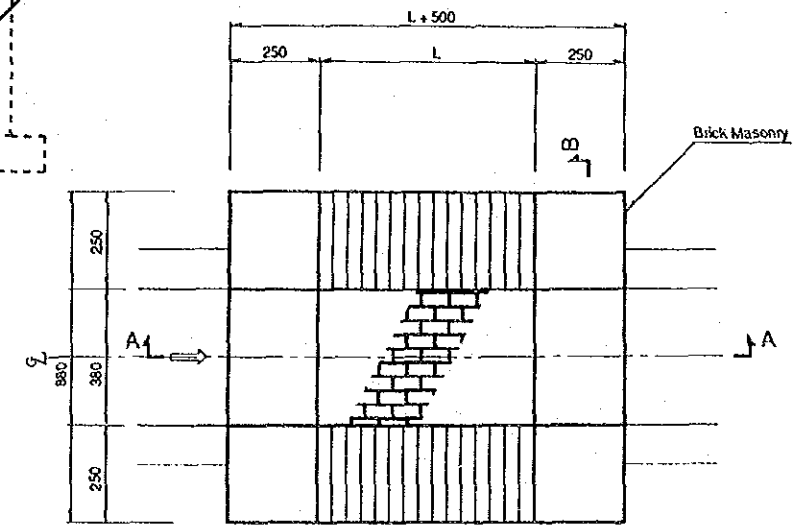


SECTION B-B
(No Scale)



SECTION A-A
(No Scale)

TRANSITION

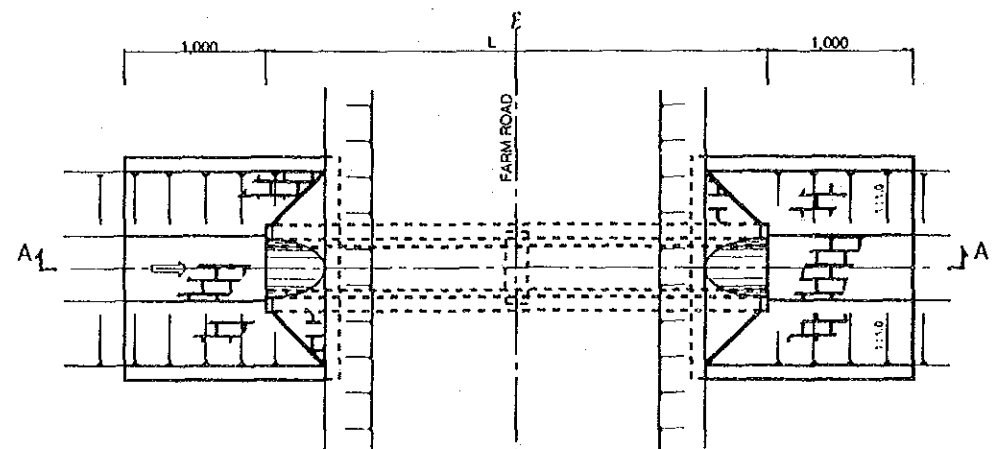


PLAN
(No Scale)

SECTION B-B
(No Scale)

DROP

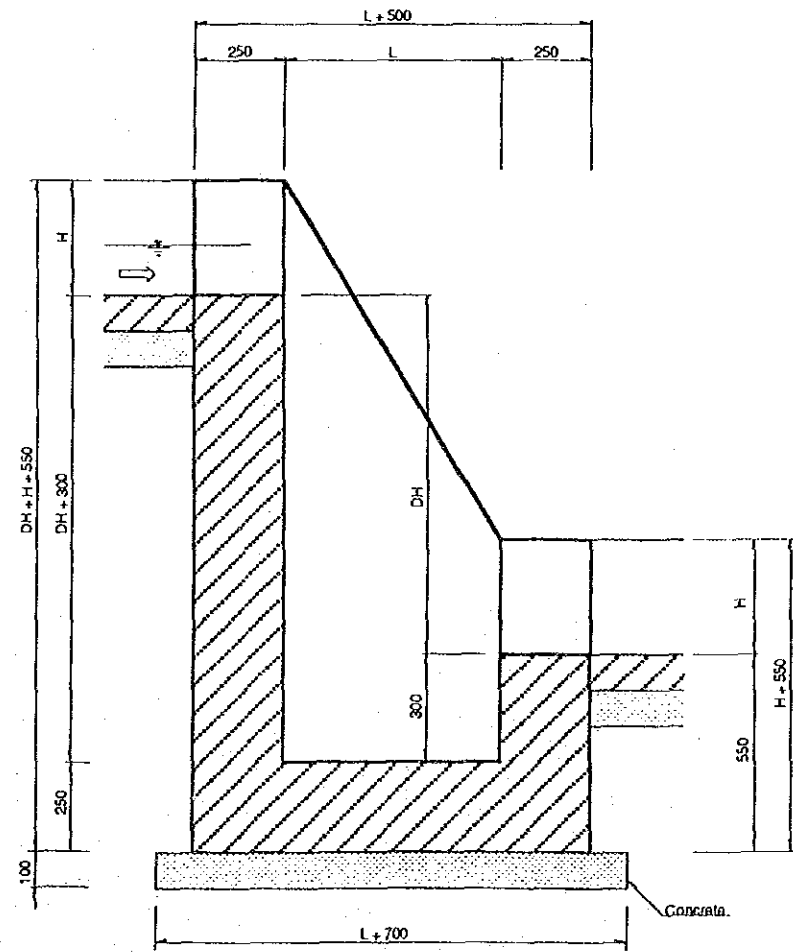
N.B. : Plastering is to be made on external surface of brick masonry works.



PLAN
(No Scale)

SECTION A-A
(No Scale)

DRAINAGE CULVERT



SECTION B-B
(No Scale)

INDIA
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TITLE :
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JAPAN INTERNATIONAL COOPERATION AGENCY

JICA

