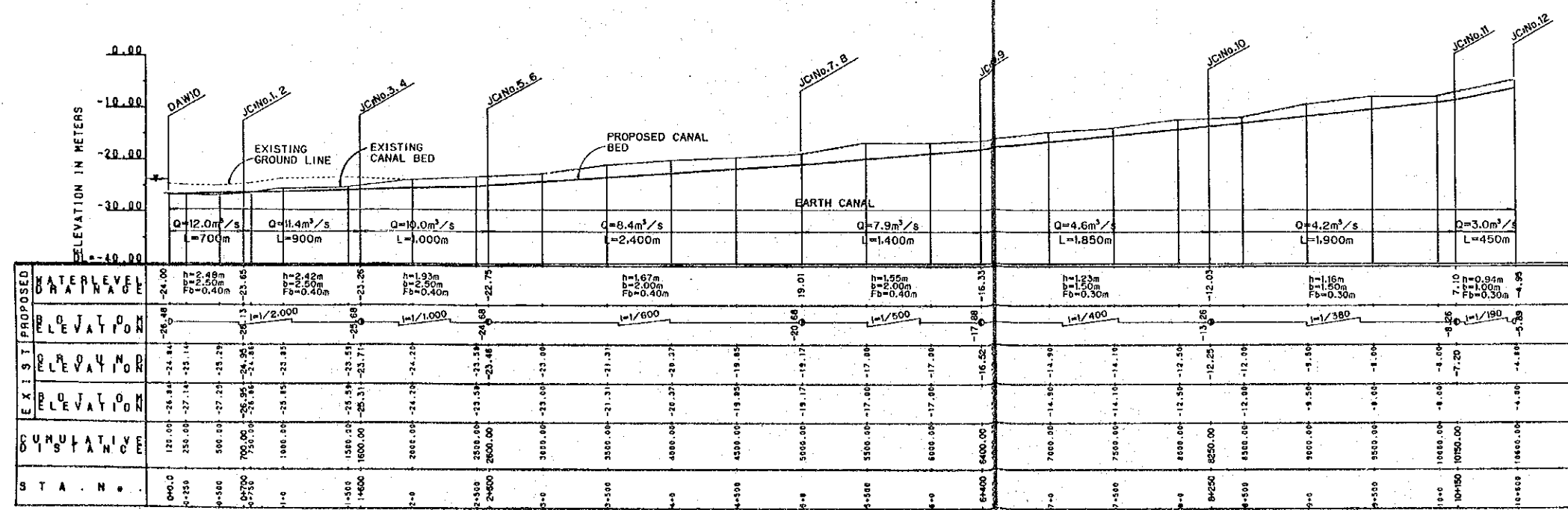


PROPOSED WATERLEVEL	PROPOSED ELEVATION	EXIST. PROPOSED ELEVATION	EXIST. PROPOSED ELEVATION	CUMULATIVE DISTANCE	S T A N O.
20.20	-23.70	-22.00	-22.00	0.00	0+0
21.50	-23.00	-21.50	-21.50	500.00	0+500
21.50	-21.50	-21.50	-21.50	1000.00	1+0
19.00	-18.00	-19.00	-19.00	1500.00	1+500
17.50	-17.50	-17.50	-17.50	2000.00	2+0
16.30	-16.30	-16.30	-16.30	2400.00	2+400
16.00	-16.00	-16.00	-16.00	2500.00	2+500
15.00	-15.00	-15.00	-15.00	3000.00	3+0
14.50	-14.50	-14.50	-14.50	3500.00	3+500

DAW6C



PROPOSED WATERLEVEL	PROPOSED ELEVATION	EXIST. PROPOSED ELEVATION	EXIST. PROPOSED ELEVATION	CUMULATIVE DISTANCE	S T A N O.
24.00	-26.00	-24.84	-24.84	0.00	0+0
24.48	-25.14	-25.14	-25.14	250.00	0+250
24.42	-23.29	-23.29	-23.29	500.00	0+500
23.65	-22.65	-22.65	-22.65	700.00	0+700
23.65	-22.65	-22.65	-22.65	750.00	0+750
23.20	-23.20	-23.20	-23.20	1000.00	1+0
23.51	-23.51	-23.51	-23.51	1500.00	1+500
23.71	-23.71	-23.71	-23.71	1600.00	1+600
23.20	-24.20	-24.20	-24.20	2000.00	2+0
23.54	-23.54	-23.54	-23.54	2400.00	2+400
22.75	-22.75	-22.75	-22.75	2600.00	2+600
19.01	-20.66	-19.17	-19.17	3000.00	3+0
17.00	-17.00	-17.00	-17.00	3500.00	3+500
17.00	-17.00	-17.00	-17.00	3500.00	3+500
17.00	-17.00	-17.00	-17.00	4000.00	4+0
16.52	-16.52	-16.52	-16.52	5400.00	5+400
14.90	-14.90	-14.90	-14.90	7000.00	7+0
14.10	-14.10	-14.10	-14.10	7500.00	7+500
12.50	-12.50	-12.50	-12.50	8000.00	8+0
12.25	-12.25	-12.25	-12.25	8250.00	8+250
12.00	-12.00	-12.00	-12.00	8500.00	8+500
9.50	-9.50	-9.50	-9.50	9000.00	9+0
8.00	-8.00	-8.00	-8.00	9500.00	9+500
8.00	-8.00	-8.00	-8.00	10000.00	10+0
7.20	-7.20	-7.20	-7.20	10150.00	10+150
4.80	-4.80	-4.80	-4.80	10600.00	10+600

DAW10

ABBREVIATIONS

BP: BEGINNING POINT	OR: IRRIGATION DISCHARGE
EP: END POINT	OD: DRAINAGE DISCHARGE
MD: MEASURING DEVICE	h: WATER DEPTH
TO: TURNOUT	b: BOTTOM WIDTH
CK: CHECK	Fb: FREEBOARD
CP: CHECK AND DROP	L: LENGTH
DR: DROP	
JC: JUNCTION	

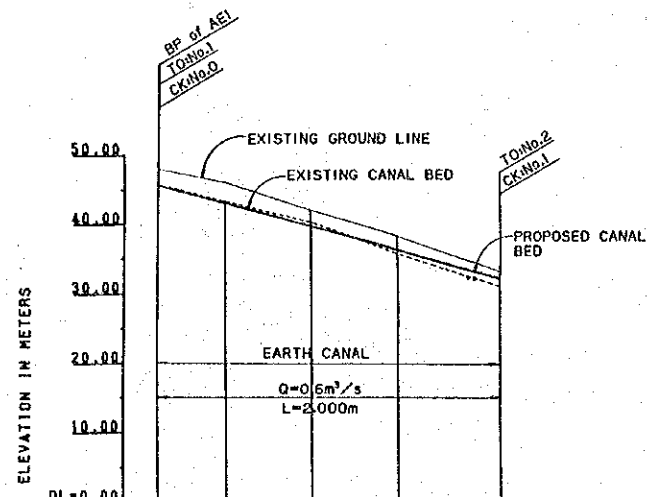
ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

PROFILE
OF
SECONDARY CANAL - DAW6C/10

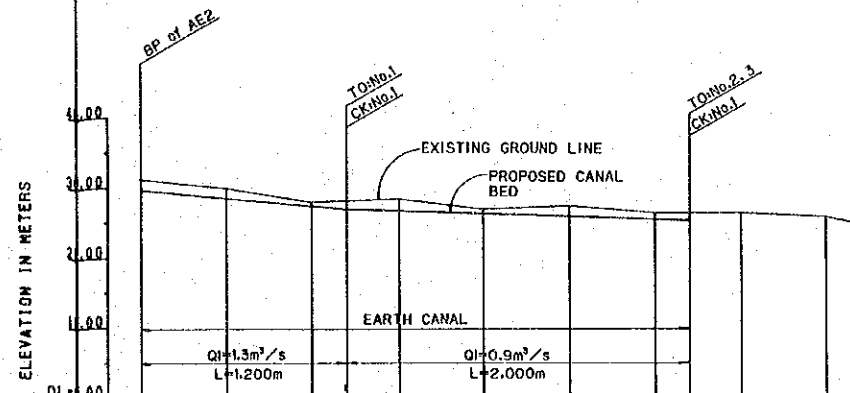
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

EXHIBIT No. 47 CP-45



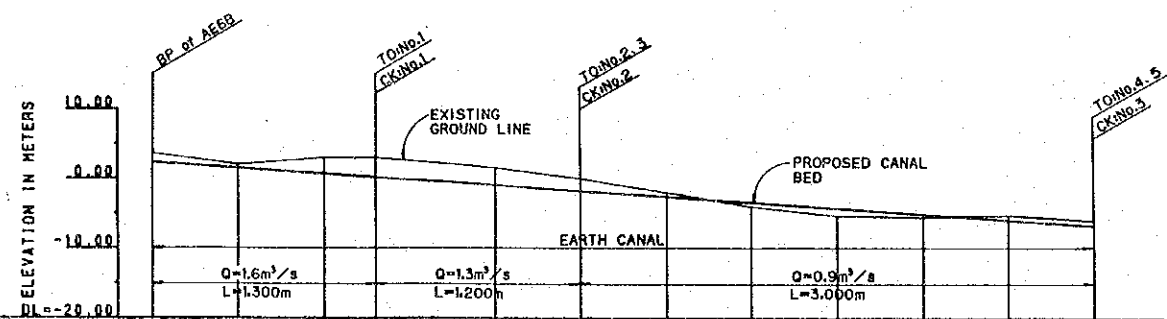
PROPOSED WATERLEVEL	46.57	h=0.24m b=1.00m Fb=0.15m		32.65
PROPOSED ELEVATION	45.74	I=1/150		32.41
EXISTING GROUND ELEVATION	48.84	45.96	41.84	38.14
EXISTING CANAL BED ELEVATION	45.74	42.15	40.10	30.78
CUMULATIVE DISTANCE	0.00	489.00	910.00	2000.00
STATION	0+0	0+489	0+910	2+000

AE1



PROPOSED WATERLEVEL	30.80	h=1.00m b=1.00m Fb=0.30m		28.13	h=1.10m b=1.00m Fb=0.15m		26.69
PROPOSED ELEVATION	29.80	I=1/450		27.13	I=1/1300		25.99
EXISTING GROUND ELEVATION	31.24	30.00	28.08	28.20	28.54	27.08	26.04
EXISTING CANAL BED ELEVATION	30.00	28.08	28.20	28.54	27.08	27.50	26.04
CUMULATIVE DISTANCE	0.00	300.00	1050.00	1200.00	1500.00	2000.00	3200.00
STATION	0+0	0+300	1+000	1+200	1+500	2+500	3+200

AE2



PROPOSED WATERLEVEL	3.30	h=0.90m b=1.00m Fb=0.30m		1.13	h=0.80m b=1.00m Fb=0.30m		-0.97	h=0.66m b=1.00m Fb=0.15m		-6.11
PROPOSED ELEVATION	2.40	I=1/600		0.23	I=1/600		-1.77	I=1/600		-6.77
EXISTING GROUND ELEVATION	3.10	2.66	3.09	3.89	1.50	0.09	-2.08	-4.00	-5.30	-5.70
EXISTING CANAL BED ELEVATION	3.10	2.66	3.09	3.89	1.50	0.09	-2.08	-4.00	-5.30	-5.70
CUMULATIVE DISTANCE	0.00	500.00	1000.00	1300.00	2500.00	2588.00	2800.00	3500.00	4000.00	4500.00
STATION	0+0	0+500	1+000	1+300	2+500	2+588	3+000	3+500	4+000	4+500

AE6B

ABBREVIATIONS

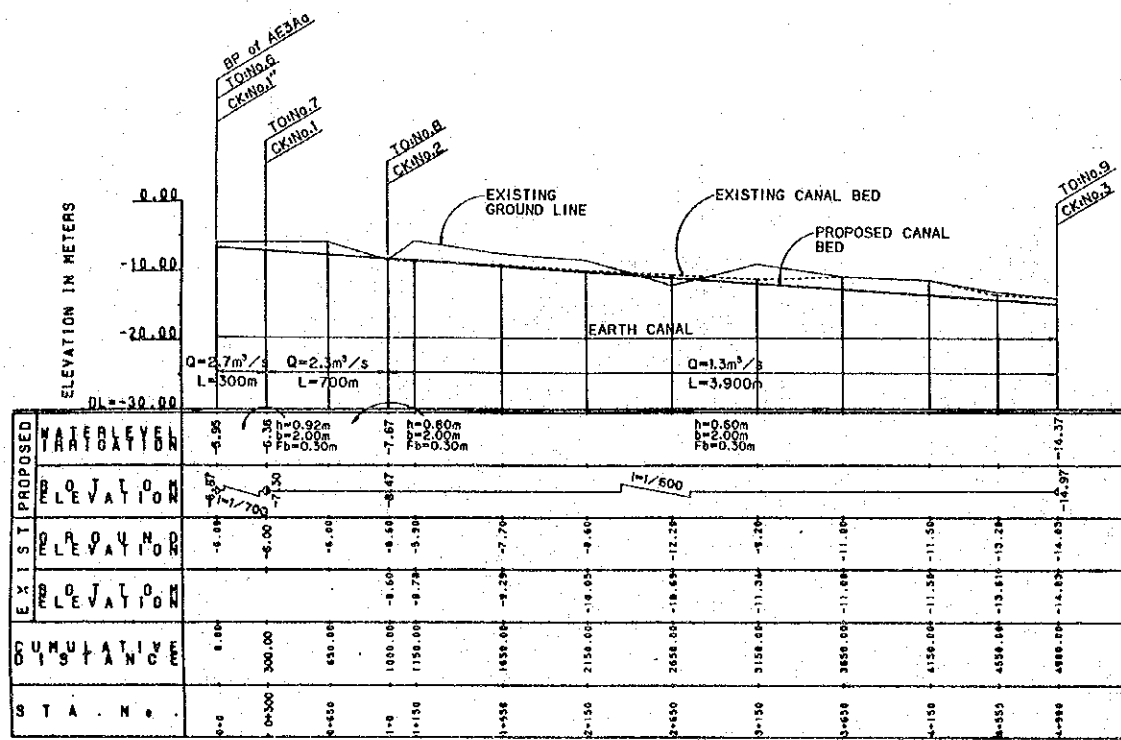
BP: BEGINNING POINT	Q: IRRIGATION DISCHARGE
EP: END POINT	Qd: DRAINAGE DISCHARGE
MD: MEASURING DEVICE	h: WATER DEPTH
TO: TURNOUT	b: BOTTOM WIDTH
CK: CHECK	Fb: FREEBOARD
CK AND DROP	L: LENGTH
DR: DROP	
JC: JUNCTION	

ISLAMIC REPUBLIC OF IRAN
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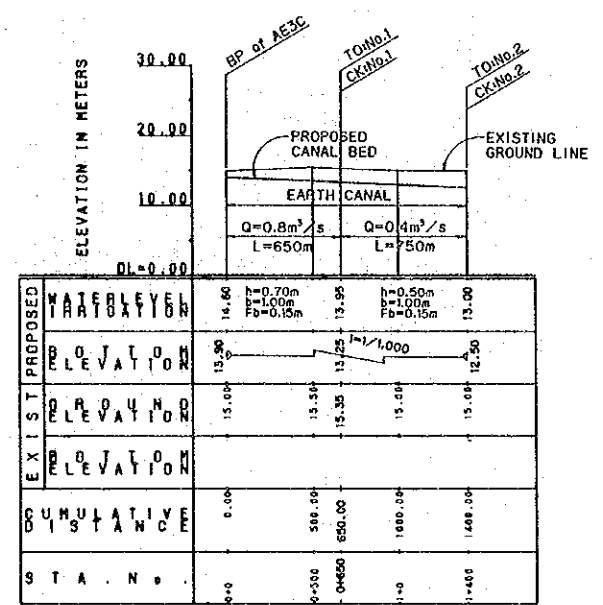
THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

PROFILE
OF
SECONDARY CANAL - AE1/2/6B

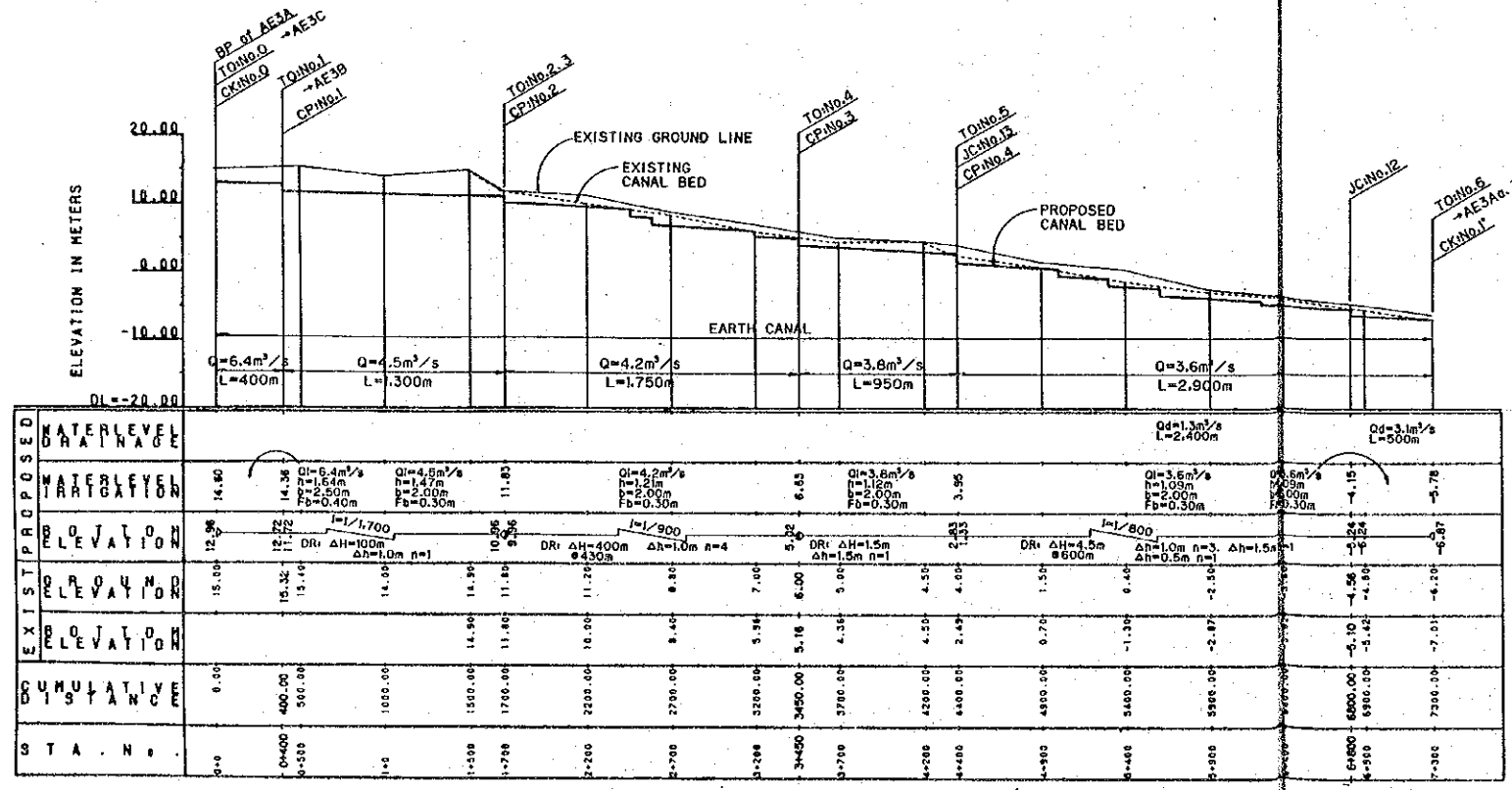
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 48 CP-46



AE3A



AE3C



AE3A

ABBREVIATIONS

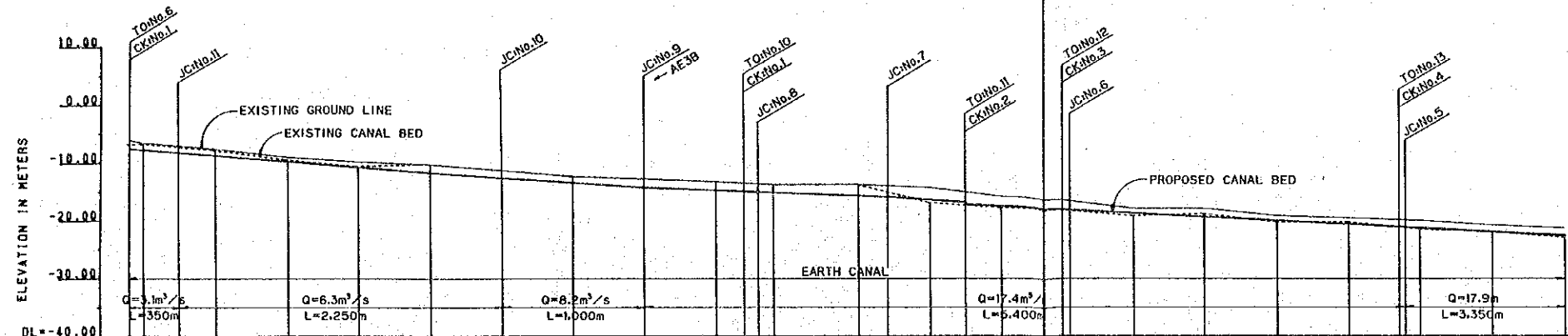
BP: BEGINNING POINT	Q: IRRIGATION DISCHARGE
EP: END POINT	Qd: DRAINAGE DISCHARGE
MD: MEASURING DEVICE	h: WATER DEPTH
TO: TURNOUT	b: BOTTOM WIDTH
CK: CHECK	Fb: FREEBOARD
CP: CHECK AND DROP	L: LENGTH
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J: JUNCTION	

ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

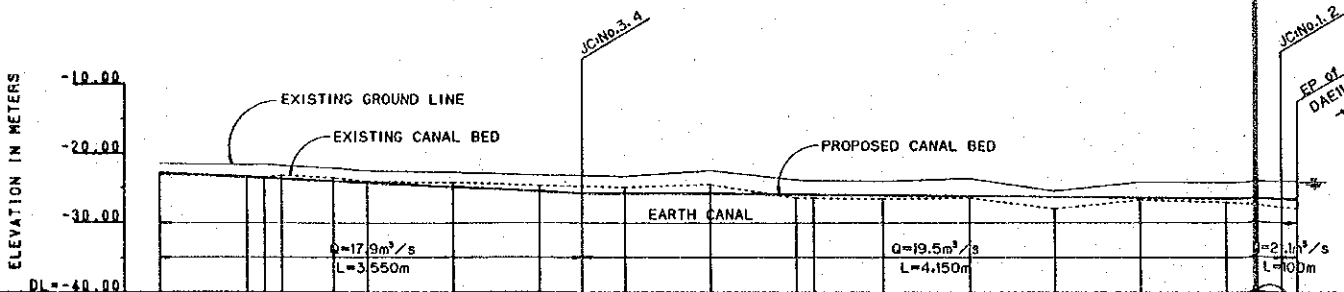
PROFILE
OF
SECONDARY CANAL - AE3A/3Aa/3C

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 49 CP-47



DI = -40.00	Q=3.1m ³ /s L=350m	Q=6.3m ³ /s L=2,250m	Q=8.2m ³ /s L=1,000m	Q=17.4m ³ /s L=1,700m	Q=17.4m ³ /s L=5,400m	Q=17.9m ³ /s L=3,350m
WATER LEVEL	7.89	7.89	7.89	7.89	7.89	7.89
WATER DEPTH	0.37	0.37	0.37	0.37	0.37	0.37
PROPOSED ELEVATION	-7.89	-7.89	-7.89	-7.89	-7.89	-7.89
EXISTING ELEVATION	-7.52	-7.52	-7.52	-7.52	-7.52	-7.52
CUMULATIVE DISTANCE	0.00	350.00	2,600.00	3,300.00	4,700.00	8,050.00
STATION	0+00	0+350	2+600	3+300	4,700	8,050

AE3A1



DI = -40.00	Q=17.9m ³ /s L=3,550m	Q=19.5m ³ /s L=4,150m	Q=21.1m ³ /s L=100m
WATER LEVEL	23.46	23.46	23.46
WATER DEPTH	0.50	0.50	0.50
PROPOSED ELEVATION	-23.46	-23.46	-23.46
EXISTING ELEVATION	-23.96	-23.96	-23.96
CUMULATIVE DISTANCE	0.00	3,550.00	7,700.00
STATION	0+00	3+550	7,700

AE3A2

ABBREVIATIONS

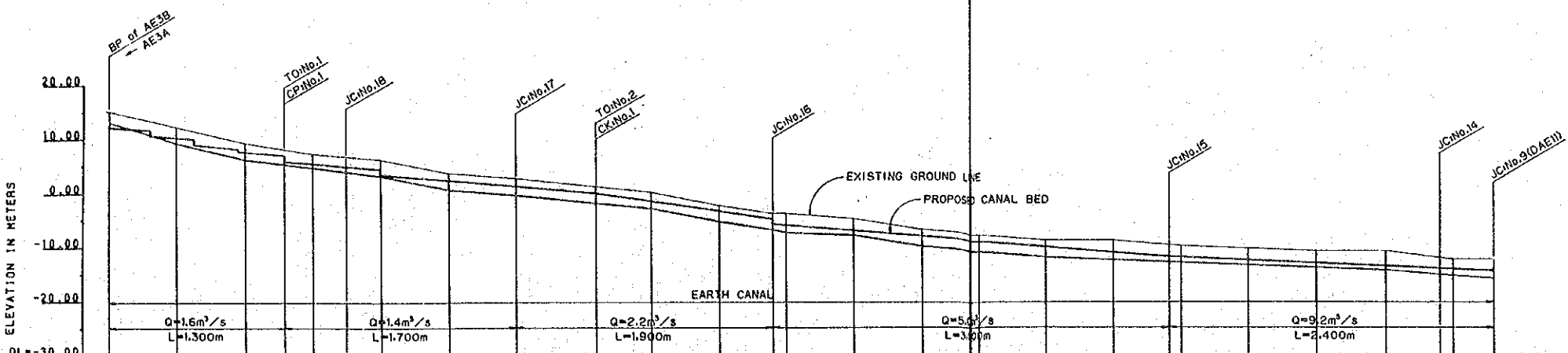
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EP: END POINT	OD: DRAINAGE DISCHARGE
MD: MEASURING DEVICE	h: WATER DEPTH
TO: TURNOUT	b: BOTTOM WIDTH
CK: CHECK	Fb: FREEBOARD
CP: CHECK AND DROP	L: LENGTH
DR: DROP	
JC: JUNCTION	

ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

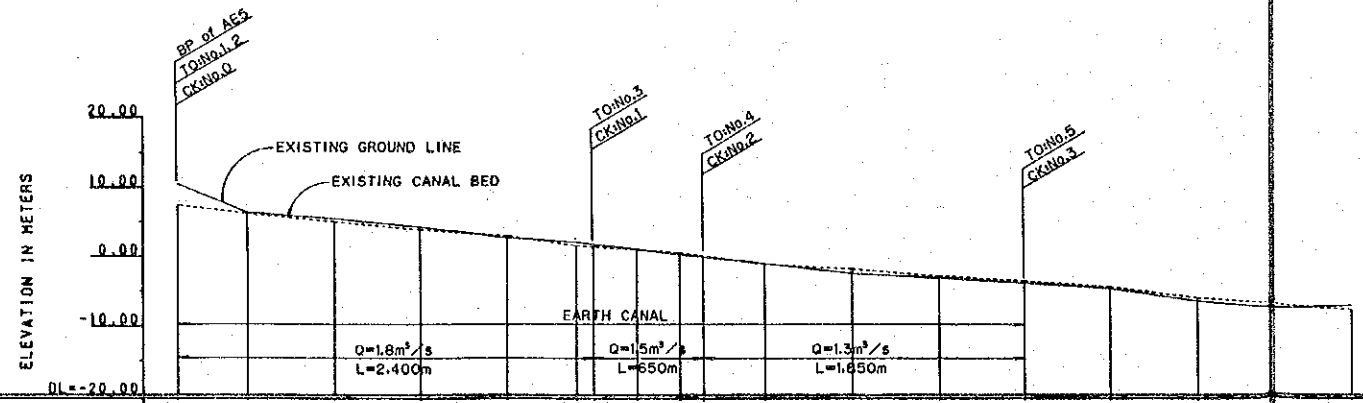
PROFILE
OF
SECONDARY CANAL - AE3A2

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 50 CP-48



PROPOSED WATERLEVEL	2.11										9.27										-12.52																			
PROPOSED WATERLEVEL ELEVATION	14.04										7.44										2.00										-12.52									
PROPOSED ELEVATION	$i=1/800$										$i=1/400$										$i=1/250$										$i=1/1000$									
EXIST GROUND ELEVATION	15.00										12.00										8.00										-8.00									
EXIST ELEVATION	15.00										12.00										8.00										-8.00									
CUMULATIVE DISTANCE	0.00										1800.00										3600.00										7200.00									
STATION	0+0										1+0										2+0										3+0									

AE3B



PROPOSED WATERLEVEL	7.84										1.00										-3.02									
PROPOSED WATERLEVEL ELEVATION	7.84										1.00										-3.02									
PROPOSED ELEVATION	$i=1/400$										$i=1/475$										$i=1/515$									
EXIST GROUND ELEVATION	10.50										7.00										-1.00									
EXIST ELEVATION	10.50										7.00										-1.00									
CUMULATIVE DISTANCE	0.00										1400.00										2800.00									
STATION	0+0										1+0										2+0									

AES

ABBREVIATIONS

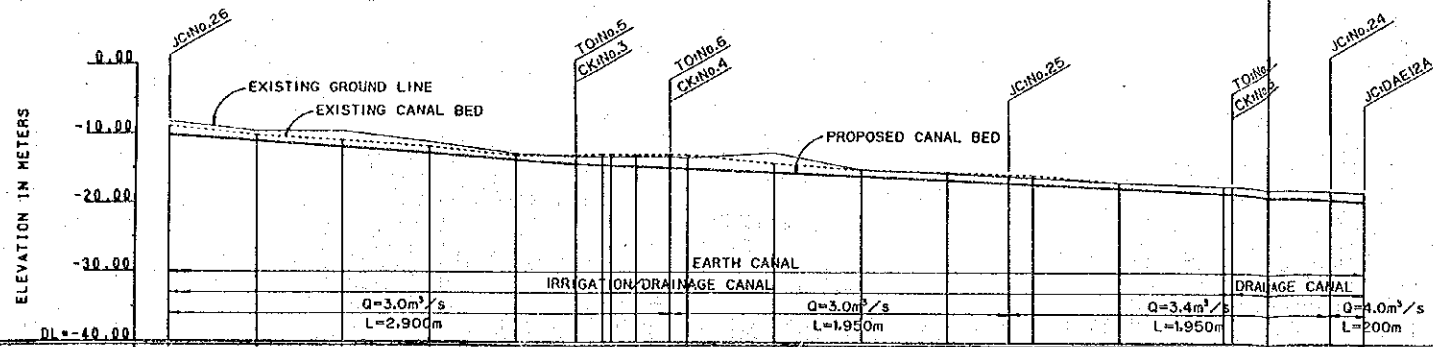
- BP: BEGINNING POINT
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- CD: CHECK AND DROP
- DR: DROP
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- h: WATER DEPTH
- b: BOTTOM WIDTH
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- L: LENGTH

ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

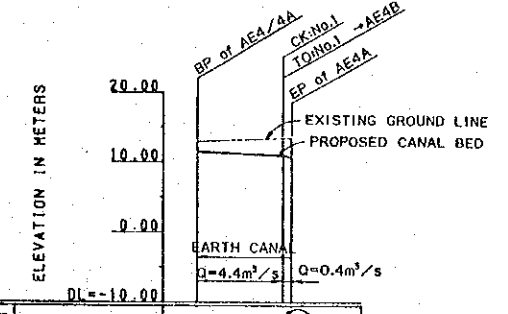
THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

PROFILE
OF
SECONDARY CANAL - AE3B/5

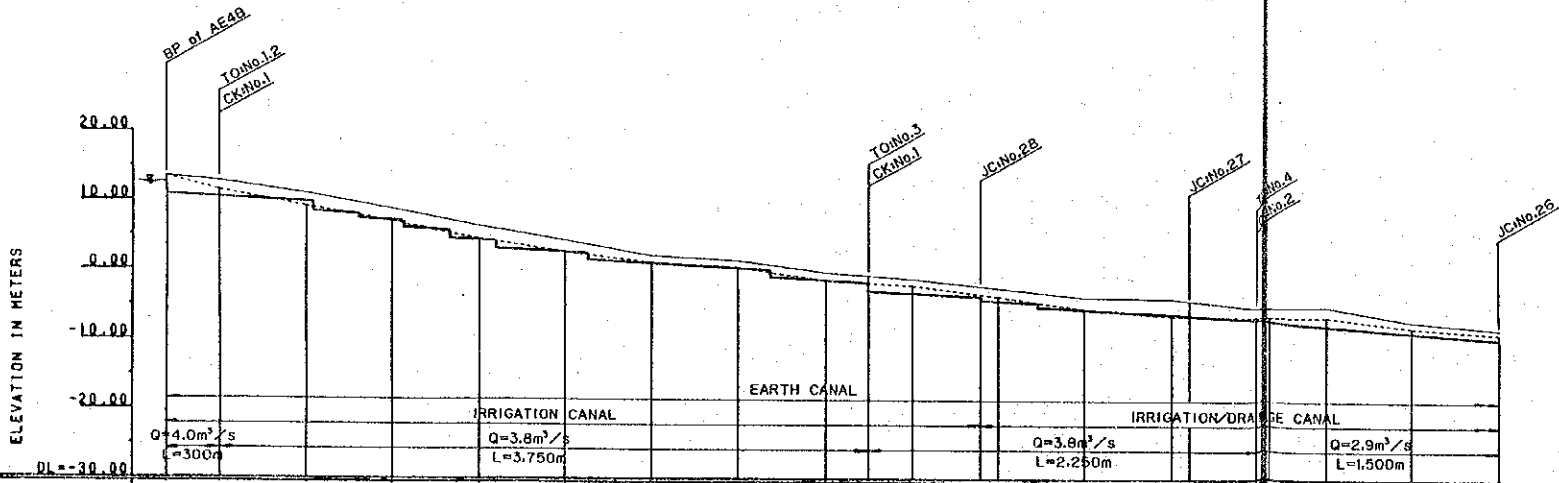
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 51 CP-49



PROPOSED WATERLEVEL DRAINAGE	Qd=3.0m ³ /s n=0.78m b=3.00m L=2.900m	Qd=3.0m ³ /s n=1.12m b=1.90m L=1.950m	Qd=3.0m ³ /s n=1.12m b=1.90m L=1.950m	Qd=3.4m ³ /s n=1.20m b=1.50m L=1.950m	Qd=4.0m ³ /s n=1.20m b=1.50m L=2.00m
PROPOSED WATERLEVEL	Qd=2.9m ³ /s n=0.76m b=3.00m	Qd=1.6m ³ /s n=0.82m b=1.50m L=550m	Qd=1.3m ³ /s n=0.74m b=1.50m	Qd=3.4m ³ /s n=1.20m b=1.50m L=1.950m	Qd=4.0m ³ /s n=1.20m b=1.50m L=2.00m
PROPOSED ELEVATION	10.50	10.50	10.50	10.50	10.50
EXIST GROUND ELEVATION	9.40	9.40	9.40	9.40	9.40
EXIST GROUND ELEVATION	9.40	9.40	9.40	9.40	9.40
CUMULATIVE DISTANCE	7605.00	8005.00	8805.00	9305.00	10005.00
STATION	7+400	8+300	9+200	10+100	11+000



PROPOSED WATERLEVEL	Qd=1.60m ³ /s n=2.00m b=0.30m	Qd=0.40m ³ /s n=1.20m b=1.50m L=2.00m
PROPOSED ELEVATION	11.40	11.40
EXIST GROUND ELEVATION	13.50	13.50
EXIST GROUND ELEVATION	13.50	13.50
CUMULATIVE DISTANCE	0.00	350.00
STATION	0+0	0+350



PROPOSED WATERLEVEL DRAINAGE	Qd=4.0m ³ /s n=1.30m b=1.50m L=3.00m	Qd=3.8m ³ /s n=0.85m b=3.50m L=3.750m	Qd=3.8m ³ /s n=0.85m b=3.50m L=3.750m	Qd=2.2m ³ /s n=1.20m L=1.200m	Qd=2.6m ³ /s n=1.20m L=1.900m
PROPOSED WATERLEVEL	Qd=4.0m ³ /s n=1.30m b=1.50m L=3.00m	Qd=3.8m ³ /s n=0.85m b=3.50m L=3.750m	Qd=3.8m ³ /s n=0.85m b=3.50m L=3.750m	Qd=2.2m ³ /s n=1.20m L=1.200m	Qd=2.6m ³ /s n=1.20m L=1.900m
PROPOSED ELEVATION	12.60	11.87	11.87	11.87	11.87
EXIST GROUND ELEVATION	11.00	11.00	11.00	11.00	11.00
EXIST GROUND ELEVATION	11.00	11.00	11.00	11.00	11.00
CUMULATIVE DISTANCE	0.00	350.00	800.00	1300.00	1850.00
STATION	0+0	0+350	0+800	1+300	1+850

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 - CK: CHECK
 - CP: CHECK AND DROP
 - DR: DROP
 - JC: JUNCTION
 - OI: IRRIGATION DISCHARGE
 - OD: DRAINAGE DISCHARGE
 - h: WATER DEPTH
 - b: BOTTOM WIDTH
 - Fb: FREEBOARD
 - L: LENGTH

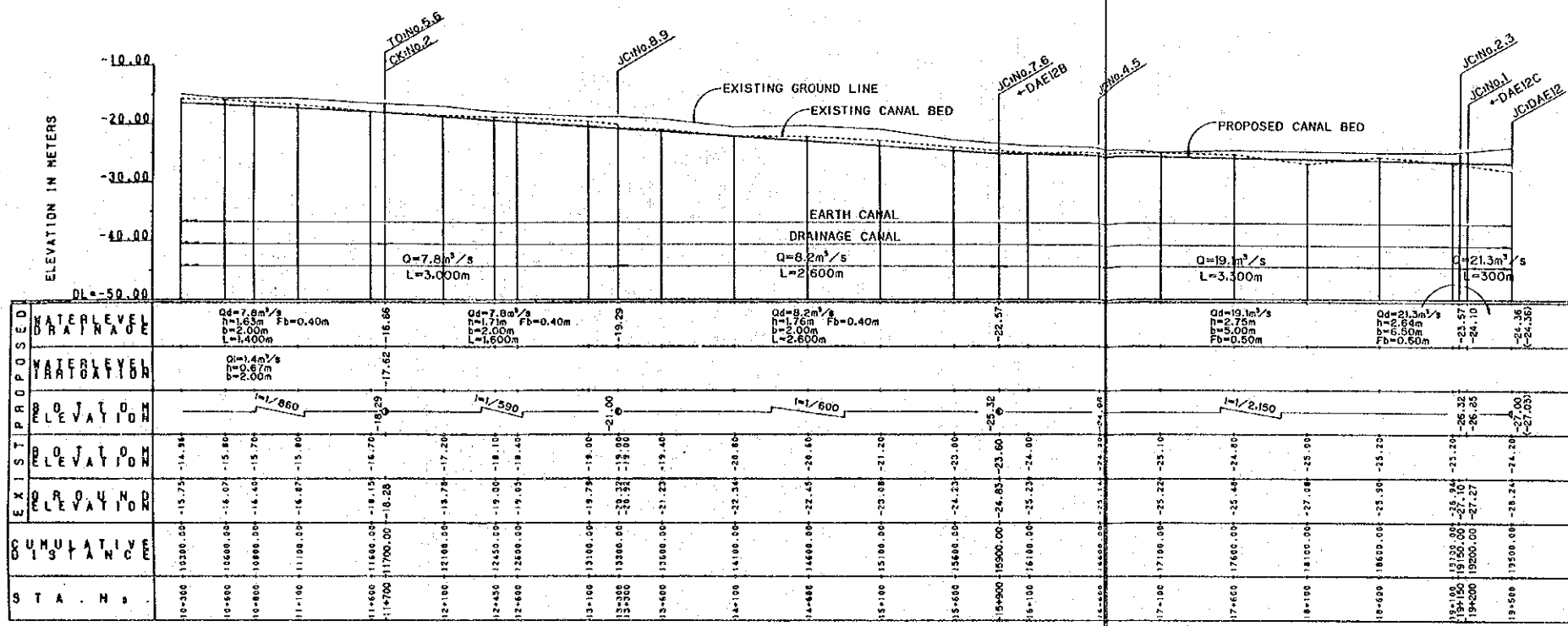
ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
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IN THE HARAZ RIVER BASIN

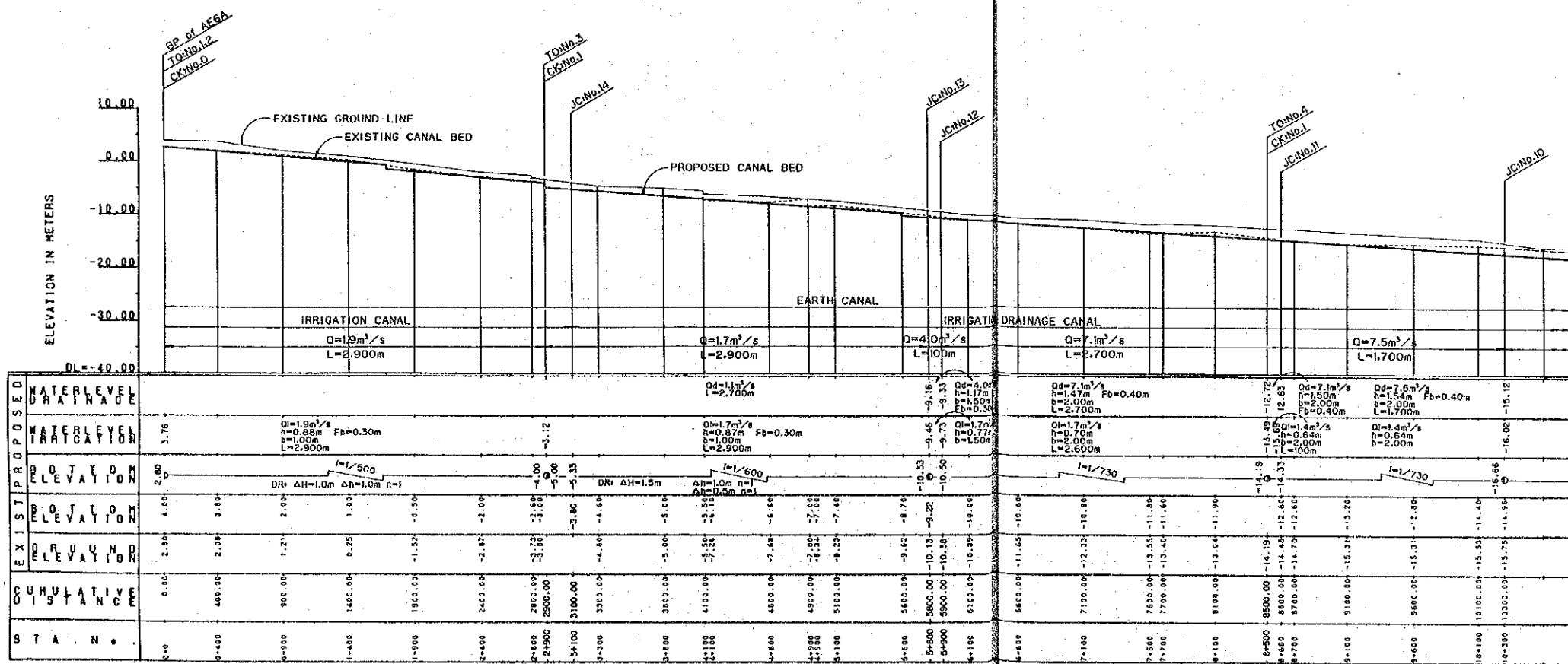
PROFILE
OF
SECONDARY CANAL - AE4/4A/4B

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

EXHIBIT No.
52 CP-50



AE6A(12)



AE6A(11)

ABBREVIATIONS

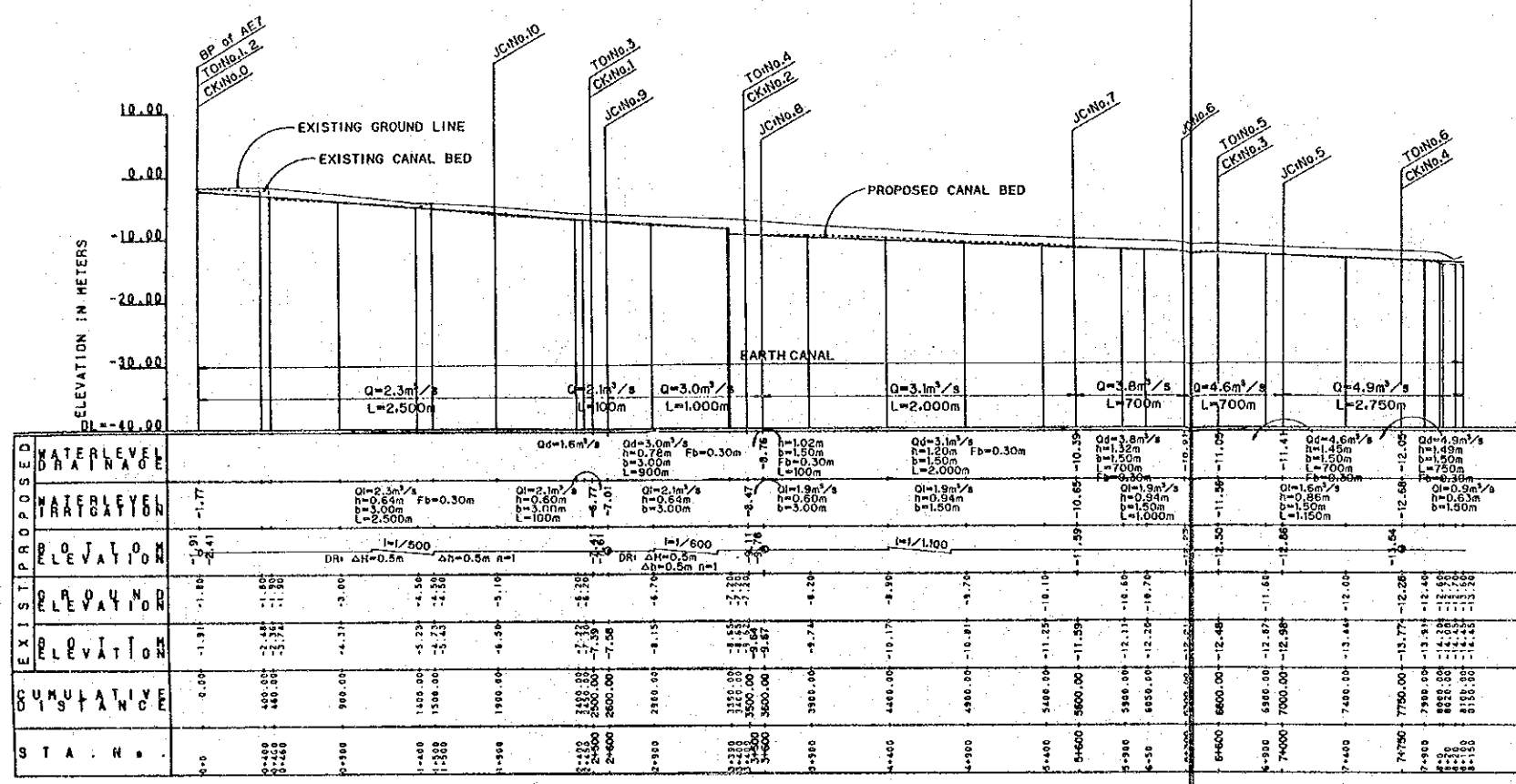
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TO: TURNOUT	b: BOTTOM WIDTH
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DR: DROP	
JC: JUNCTION	

ISLAMIC REPUBLIC OF IRAN
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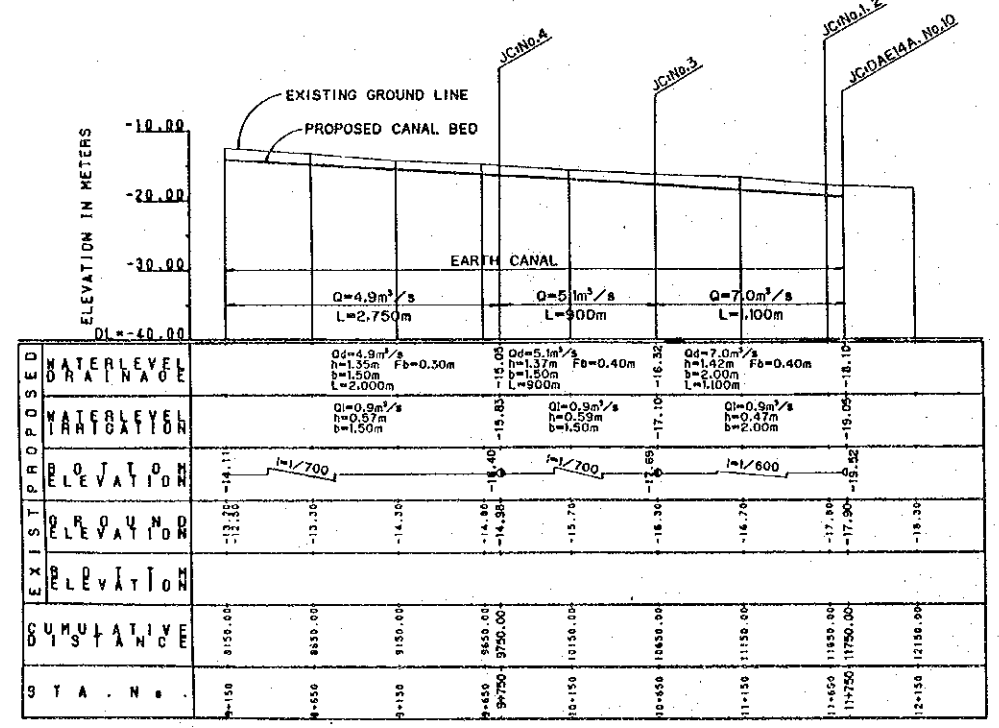
THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

PROFILE
OF
SECONDARY CANAL - AEGA

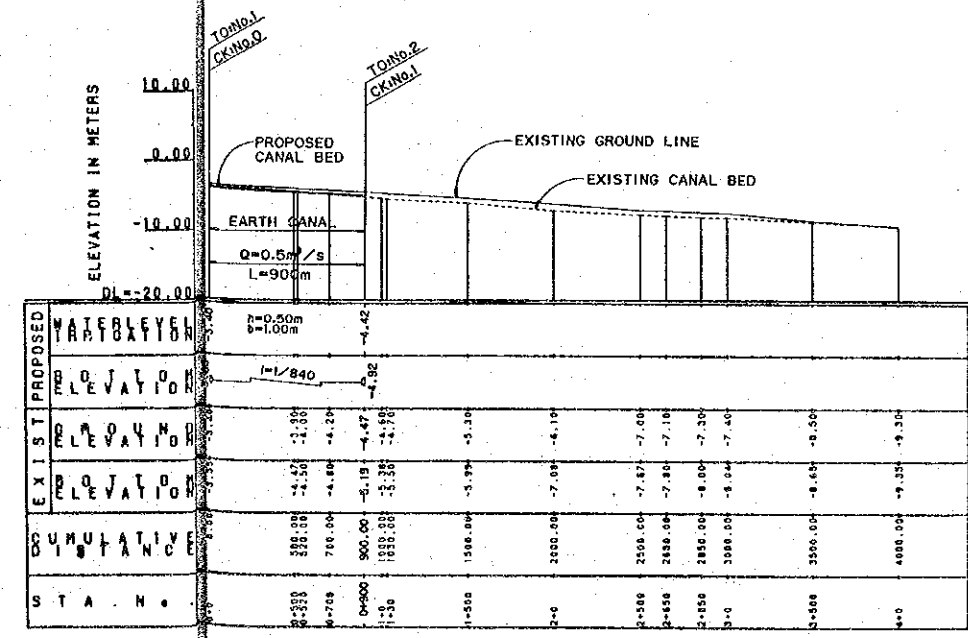
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 53 CP-51



AE7 (1)



AE7 (2)



AE8

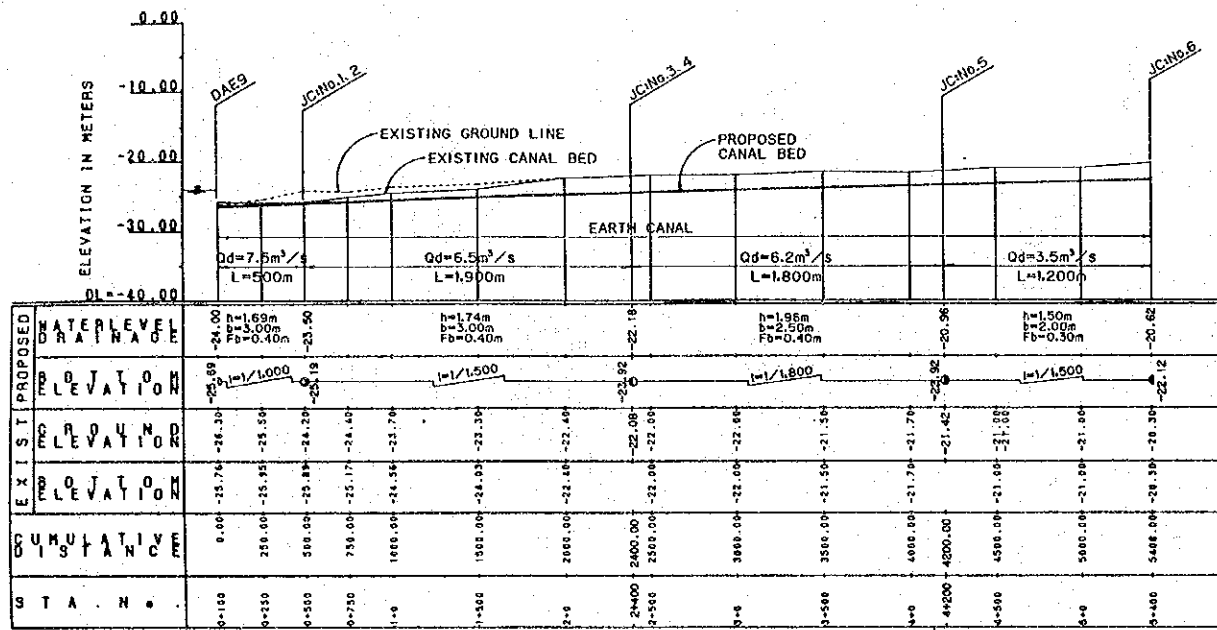
- ABBREVIATIONS
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 - Qd: DRAINAGE DISCHARGE
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 - Fb: FREEBOARD
 - L: LENGTH

ISLAMIC REPUBLIC OF IRAN
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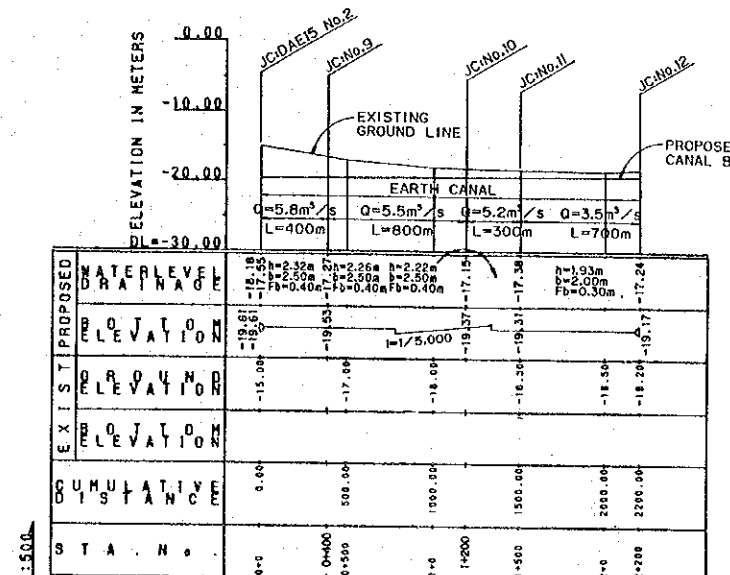
THE FEASIBILITY STUDY ON
 THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
 IN THE HARAZ RIVER BASIN

PROFILE
 OF
 SECONDARY CANAL - AE7/8

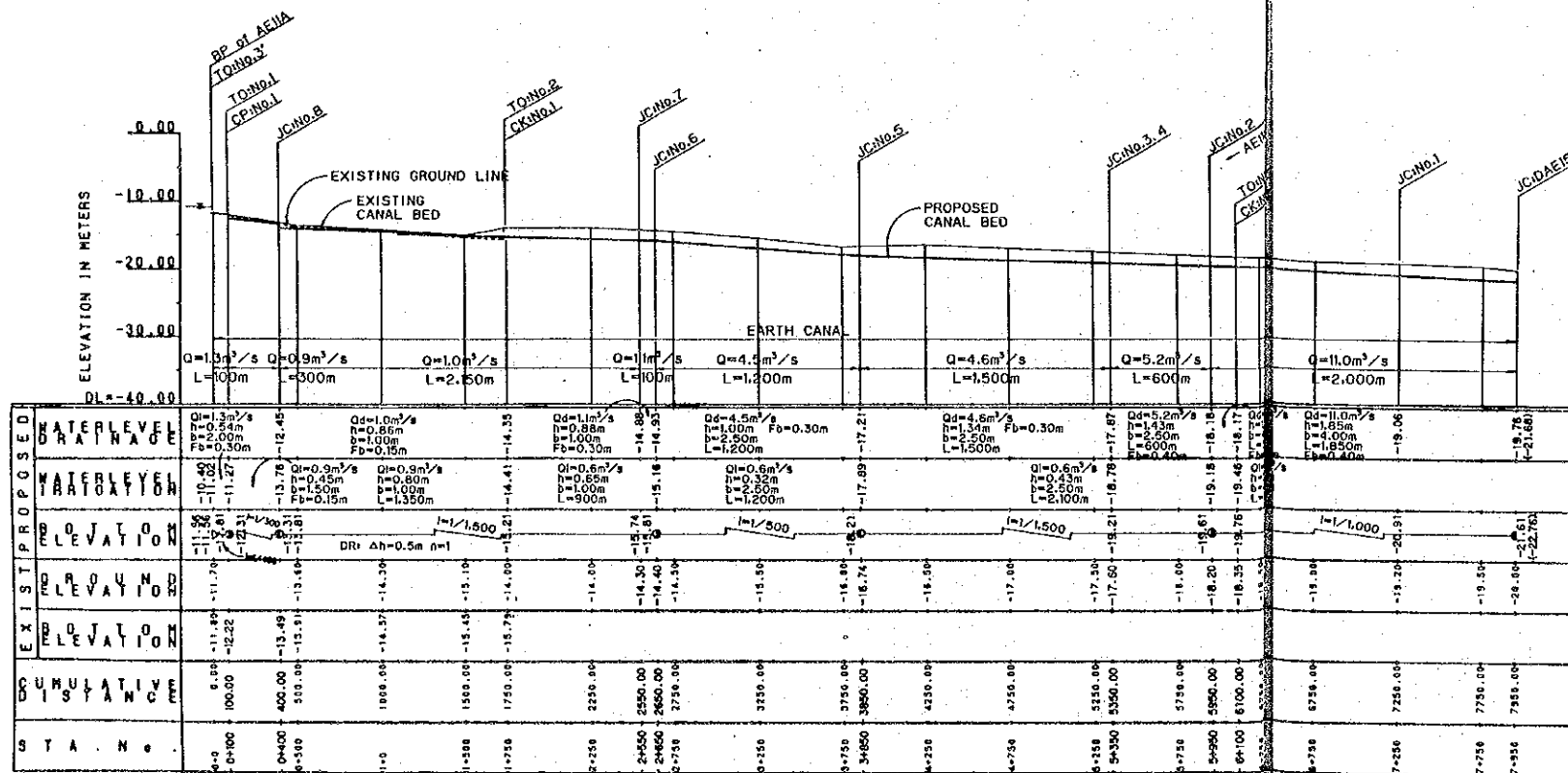
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 54 CP-52



DAE9



AE11A



AE11A

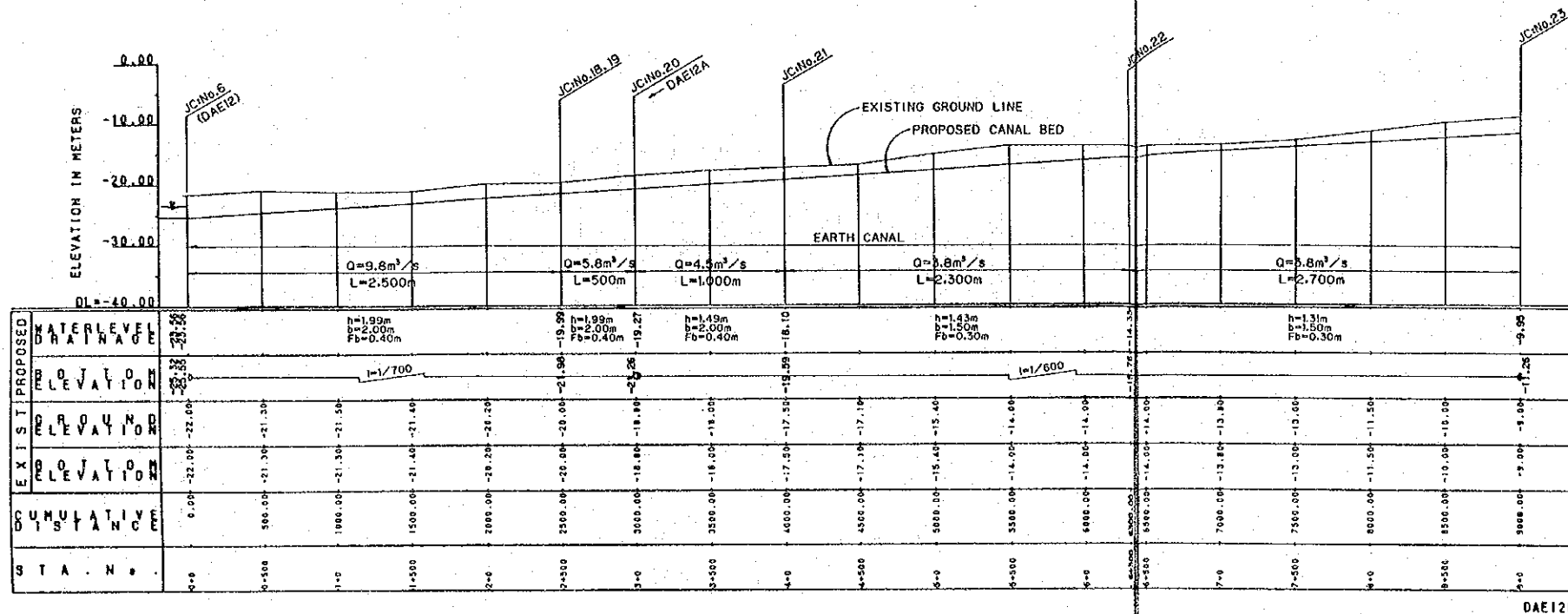
- ABBREVIATIONS**
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ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

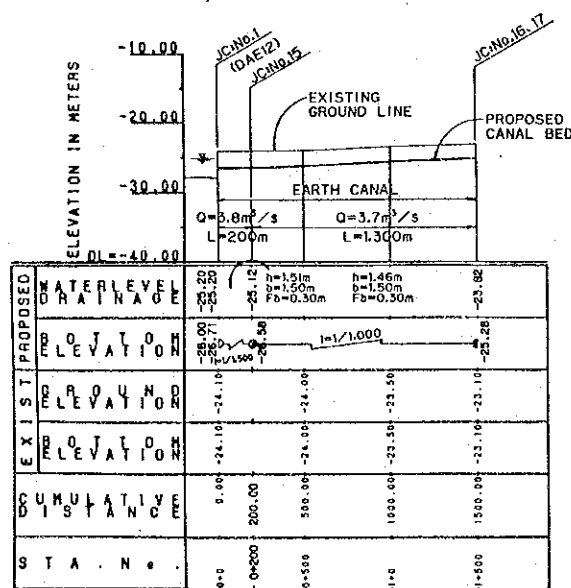
THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

PROFILE
OF
SECONDARY CANAL - AE11A/11A/DAE9

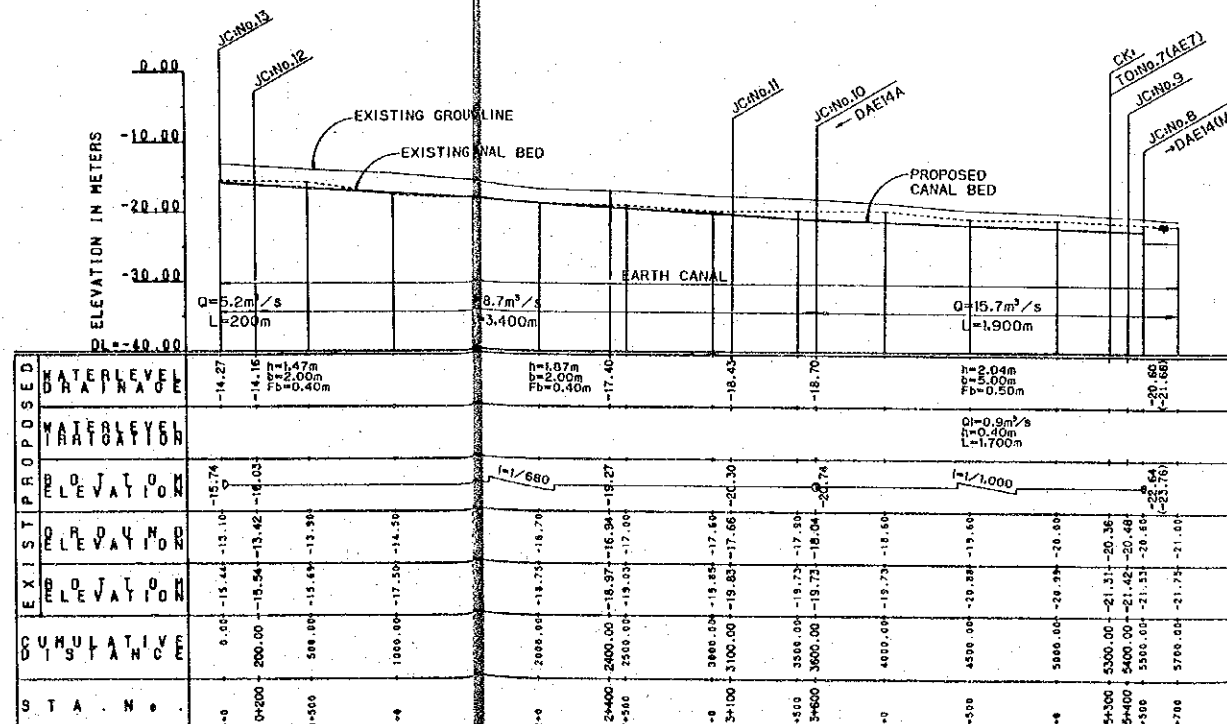
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 56 CP-54



DAE12B



DAE12C



DAE14

ABBREVIATIONS

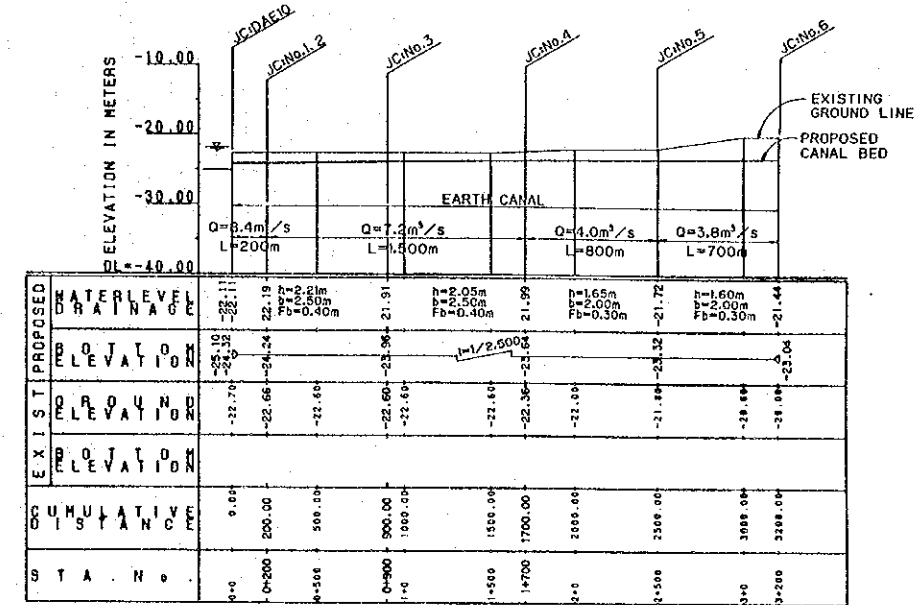
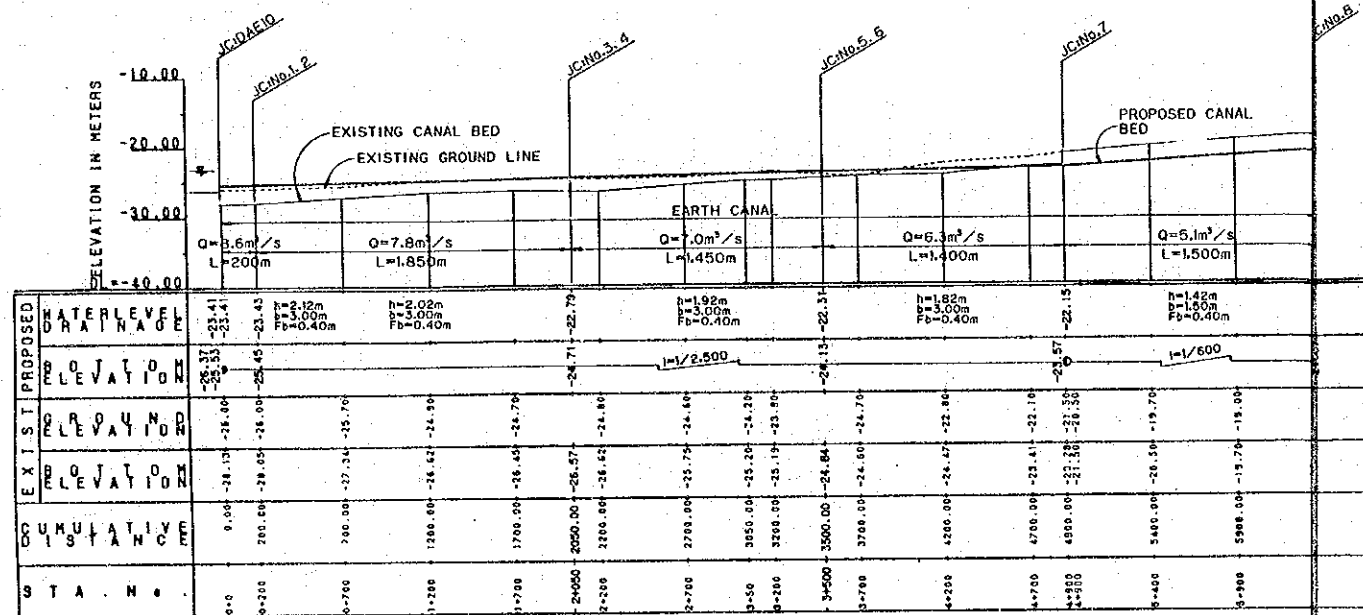
BP: BEGINNING POINT	QI: IRRIGATION DISCHARGE
EP: END POINT	Od: DRAINAGE DISCHARGE
MD: MEASURING DEVICE	h: WATER DEPTH
TS: TURNOUT	b: BOTTOM WIDTH
CK: CHECK	Fb: FREEBOARD
CP: CHECK AND DROP	L: LENGTH
DR: DROP	
JC: JUNCTION	

ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

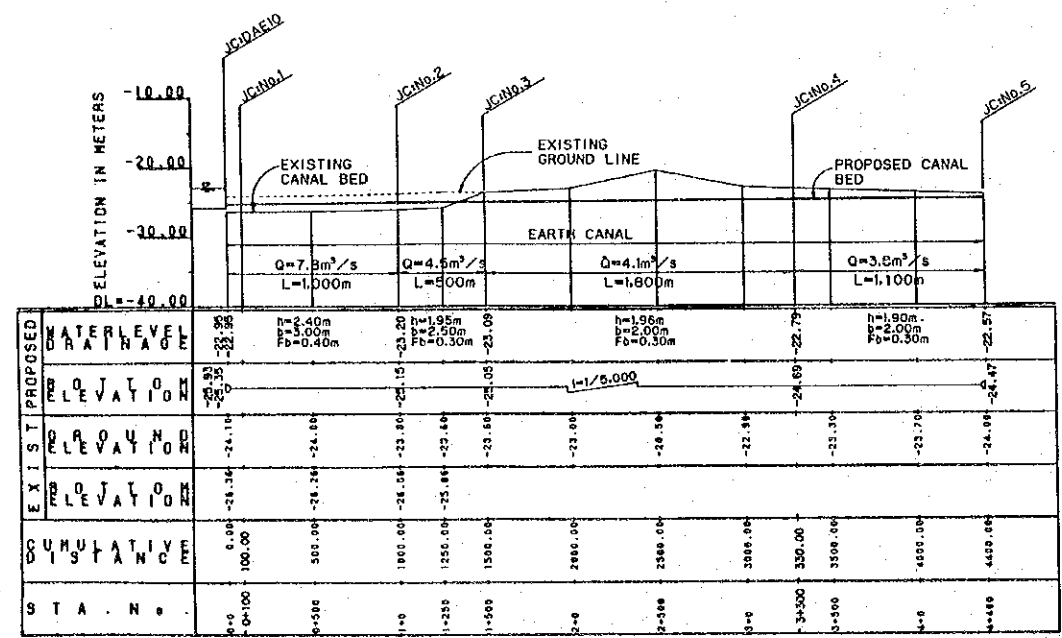
THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

PROFILE
OF
SECONDARY CANAL - DAE12B/12C/14

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 57 CP-55



DAE16



DAE17

- ABBREVIATIONS**
- BP: BEGINNING POINT
 - EP: END POINT
 - MD: MEASURING DEVICE
 - TO: TURNOUT
 - CK: CHECK
 - CP: CHECK AND DROP
 - DR: DROP
 - JC: JUNCTION
 - QI: IRRIGATION DISCHARGE
 - QD: DRAINAGE DISCHARGE
 - h: WATER DEPTH
 - b: BOTTOM WIDTH
 - Fb: FREEBOARD
 - L: LENGTH

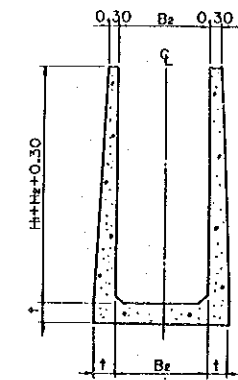
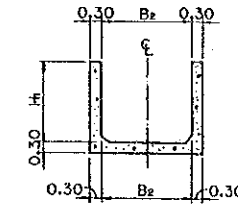
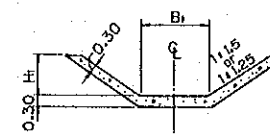
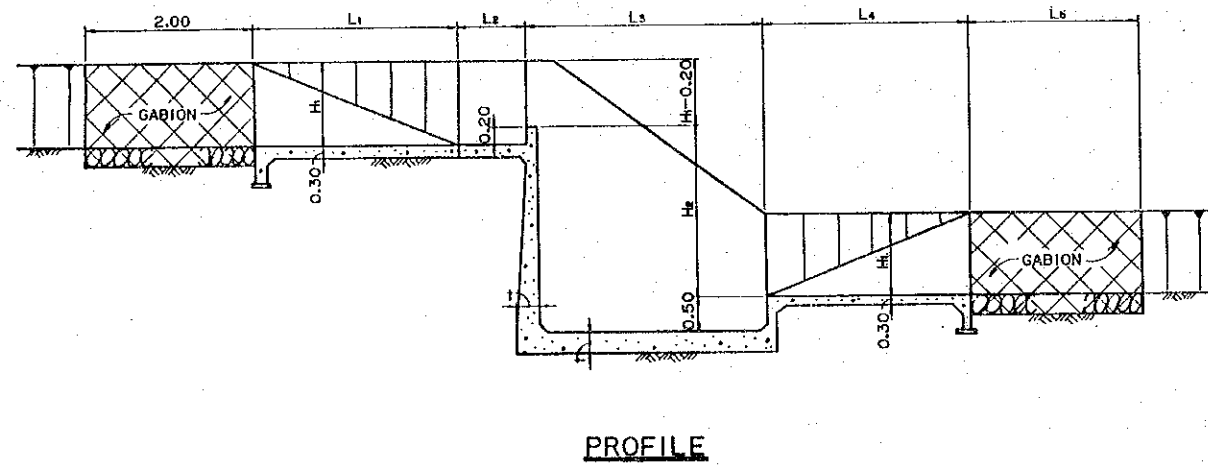
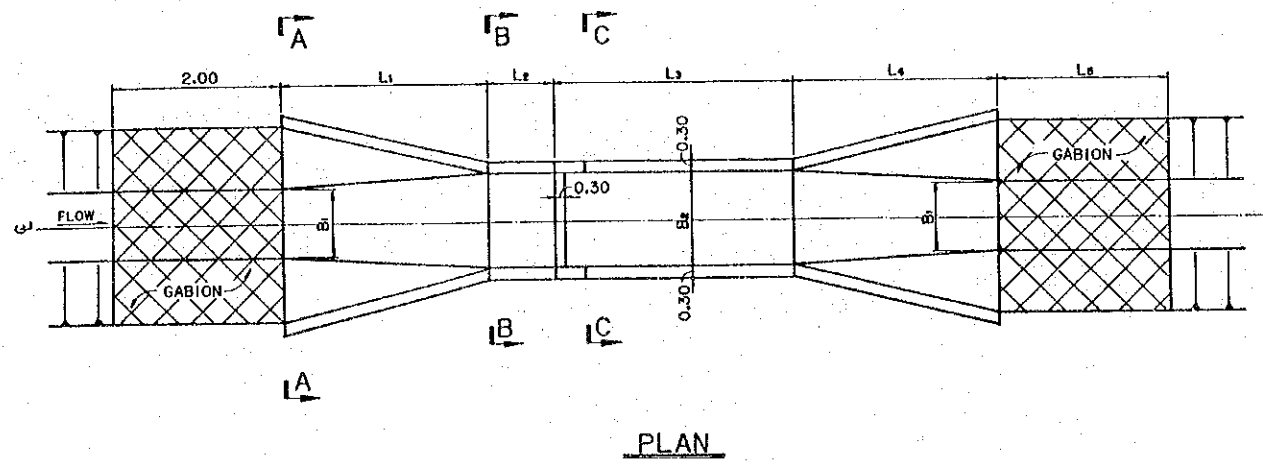
ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

PROFILE
OF
SECONDARY CANAL - DAE13/16/17

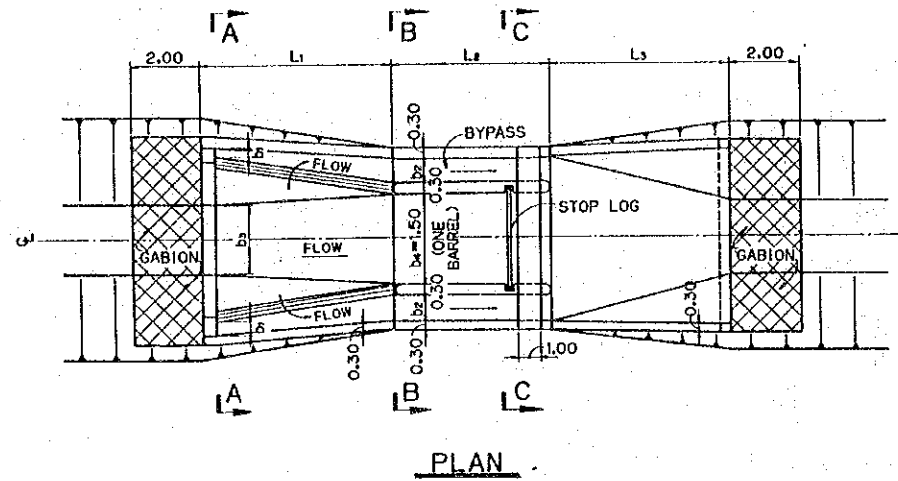
JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

EXHIBIT No.
58 CP-56

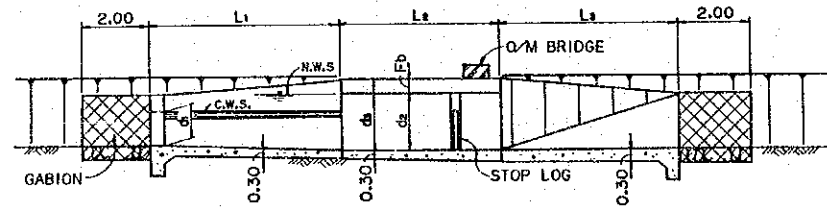


DIMENSIONS (Unit: m)

TYPE	DISCHARGE (cum/Sec)	H2	L1	L2	L3	L4	L5	Bz	t
A1	~ 5.0	0.50	4.00	1.00	1.50	1.50	1.50	3.00	0.40
A2	5.0 ~ 10.0	0.50	4.50	1.50	1.50	1.50	1.50	4.00	0.40
A3	10.0 ~ 15.0	0.50	5.00	2.00	1.50	1.50	1.50	5.00	0.40
A4	15.0 ~	0.50	5.50	2.50	1.50	1.50	1.50	6.00	0.40
B1	~ 5.0	1.00	4.00	1.00	3.00	3.00	3.00	3.00	0.40
B2	5.0 ~ 10.0	1.00	4.50	1.50	3.00	3.00	3.00	4.00	0.40
B3	10.0 ~ 15.0	1.00	5.00	2.00	3.00	3.00	3.00	5.00	0.40
B4	15.0 ~	1.00	5.50	2.50	3.00	3.00	3.00	6.00	0.40
C1	~ 5.0	1.50	4.00	1.00	4.50	4.50	4.50	3.00	0.50
C2	5.0 ~ 10.0	1.50	4.50	1.50	4.50	4.50	4.50	4.00	0.50
C3	10.0 ~ 15.0	1.50	5.00	2.00	4.50	4.50	4.50	5.00	0.50
C4	15.0 ~	1.50	5.50	2.50	4.50	4.50	4.50	6.00	0.50
D1	~ 5.0	2.00	4.00	1.00	6.00	6.00	6.00	3.00	0.50
D2	5.0 ~ 10.0	2.00	4.50	1.50	6.00	6.00	6.00	4.00	0.50
D3	10.0 ~ 15.0	2.00	5.00	2.00	6.00	6.00	6.00	5.00	0.50
D4	15.0 ~	2.00	5.50	2.50	6.00	6.00	6.00	6.00	0.50



PLAN



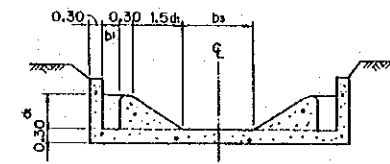
PROFILE

DIMENSIONS (1) (Unit: m)

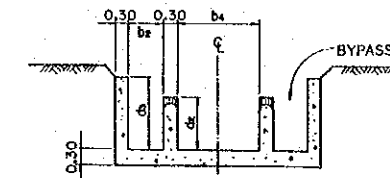
TYPE	IRRIGATION DISCHARGE (cu-m/hrs)	L1	b1	b2
A1	~ 5.0	~ 4.0	0.50	1.00
B1	5.0 ~ 10.0	4.0 ~ 6.0	0.75	1.50
C1	10.0 ~ 15.0	8.0 ~ 12.0	1.00	2.00
D1	15.0 ~	12.0 ~	1.25	2.50

DIMENSIONS (2) (Unit: m)

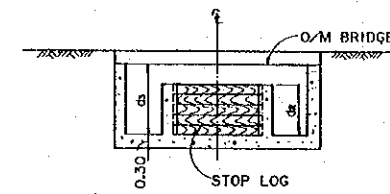
TYPE	DISCHARGE (cu-m/sec)	L1	L2
A2	~ 5.0	4.50	4.50
B2	5.0 ~ 10.0	5.00	6.00
C2	10.0 ~ 15.0	6.50	6.50
D2	15.0 ~	8.00	6.00



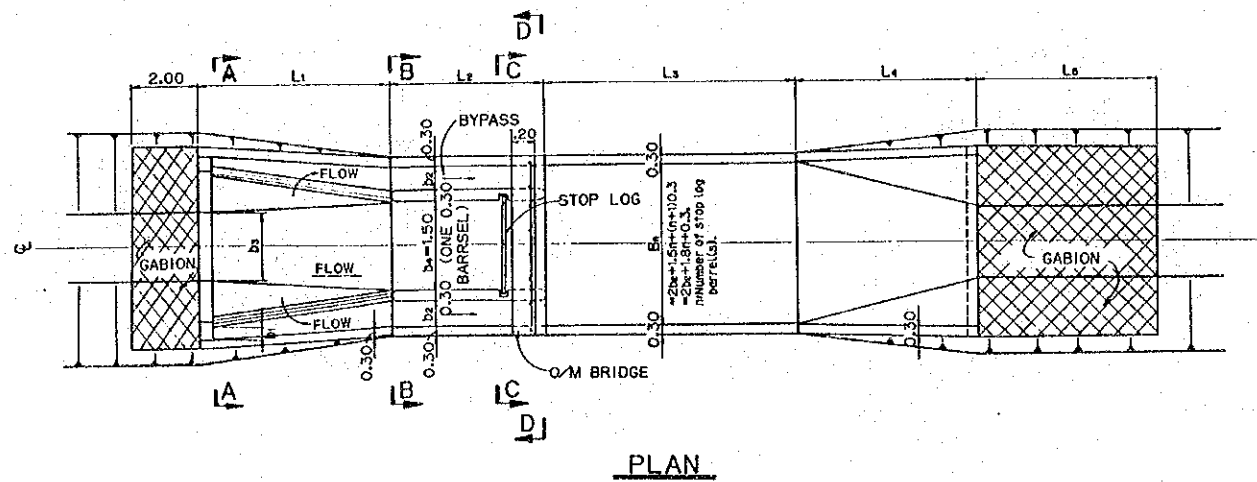
SECTION A-A



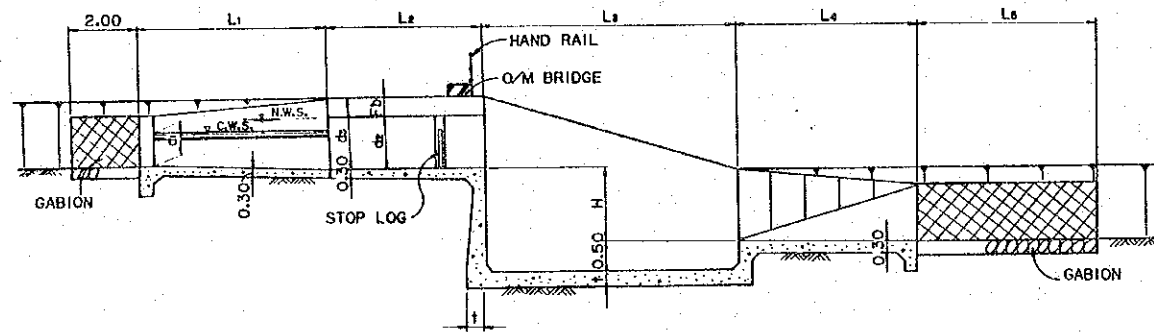
SECTION B-B



SECTION C-C



PLAN



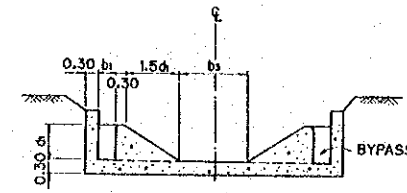
PROFILE

DIMENSIONS (1) (Unit: m)

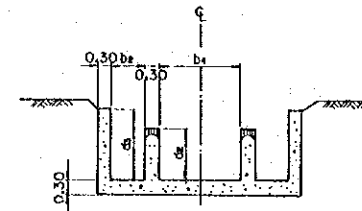
TYPE	IRRIGATION DISCHARGE (cu-m/hr)	L1	b1	b2
A1	~ 5.0	~ 4.0	0.50	1.00
B1	5.0 ~ 10.0	4.0 ~ 6.0	0.75	1.50
C1	10.0 ~ 15.0	8.0 ~ 12.0	1.00	2.00
D1	15.0 ~	12.0 ~	1.25	2.50

DIMENSIONS (2) (Unit: m)

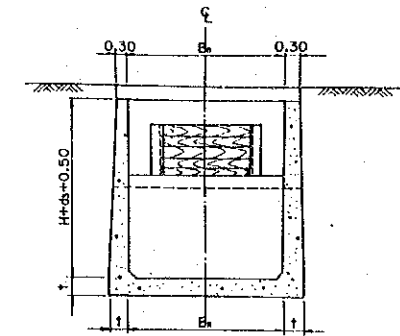
TYPE	DISCHARGE (cu-m/hr)	H2	L2	L3	L4	L5	t
A1	~ 5.0	0.50	4.50	1.50	1.50	1.50	0.40
A2	5.0 ~ 10.0	0.50	6.00	1.50	1.50	1.50	0.40
A3	10.0 ~ 15.0	0.50	5.50	1.50	1.50	1.50	0.40
A4	15.0 ~	0.50	6.00	1.50	1.50	1.50	0.40
B1	~ 5.0	1.00	4.50	3.00	3.00	3.00	0.40
B2	5.0 ~ 10.0	1.00	6.00	3.00	3.00	3.00	0.40
B3	10.0 ~ 15.0	1.00	5.50	3.00	3.00	3.00	0.40
B4	15.0 ~	1.00	6.00	3.00	3.00	3.00	0.40
C1	~ 5.0	1.50	4.50	4.50	4.50	4.50	0.50
C2	5.0 ~ 10.0	1.50	6.00	4.50	4.50	4.50	0.50
C3	10.0 ~ 15.0	1.50	5.50	4.50	4.50	4.50	0.50
C4	15.0 ~	1.50	6.00	4.50	4.50	4.50	0.50
D1	~ 5.0	2.00	4.50	6.00	6.00	6.00	0.60
D2	5.0 ~ 10.0	2.00	6.00	6.00	6.00	6.00	0.60
D3	10.0 ~ 15.0	2.00	5.50	6.00	6.00	6.00	0.60
D4	15.0 ~	2.00	6.00	6.00	6.00	6.00	0.60



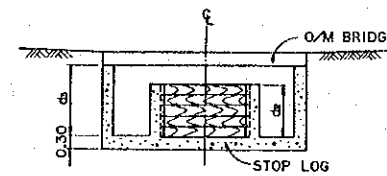
SECTION A-A



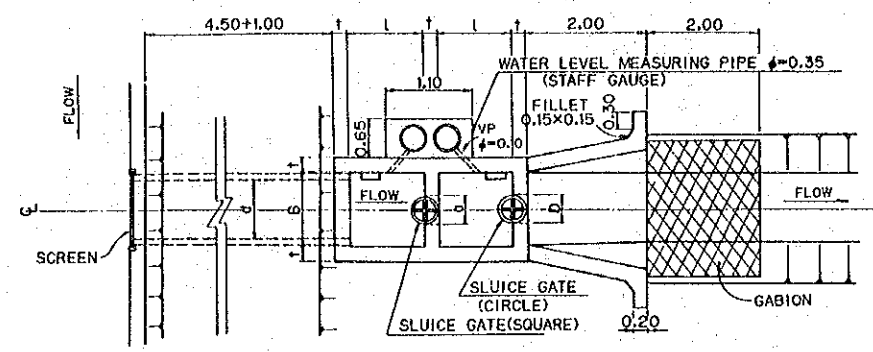
SECTION B-B



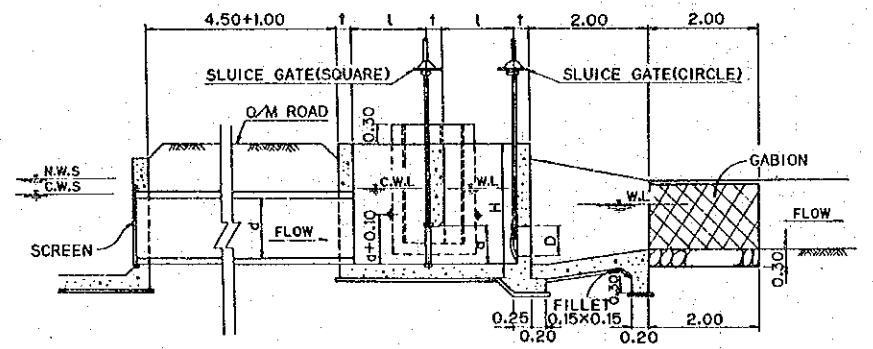
SECTION D-D



SECTION C-C



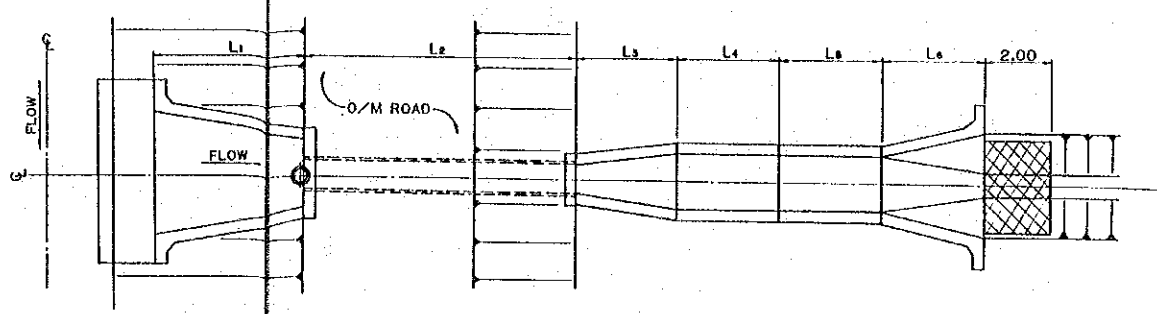
PLAN (SINGLE BARREL)



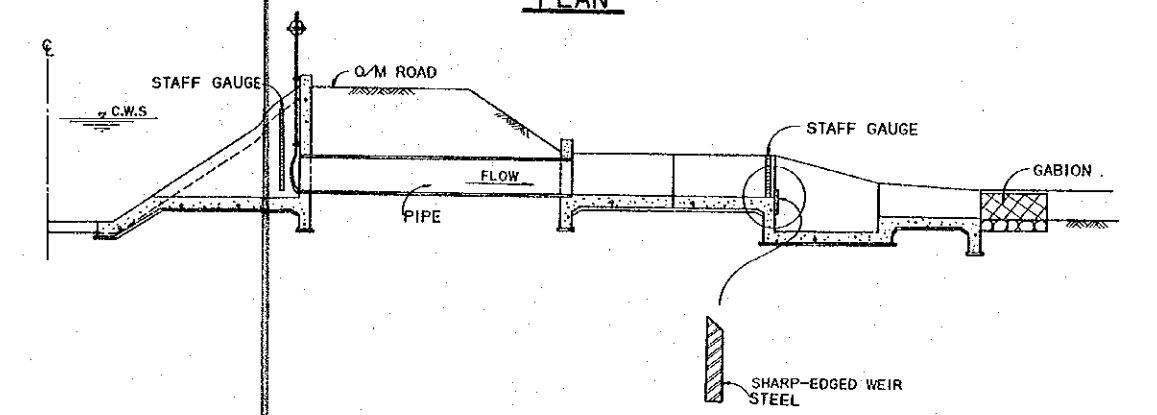
PROFILE

DIMENSIONS (Unit: m)

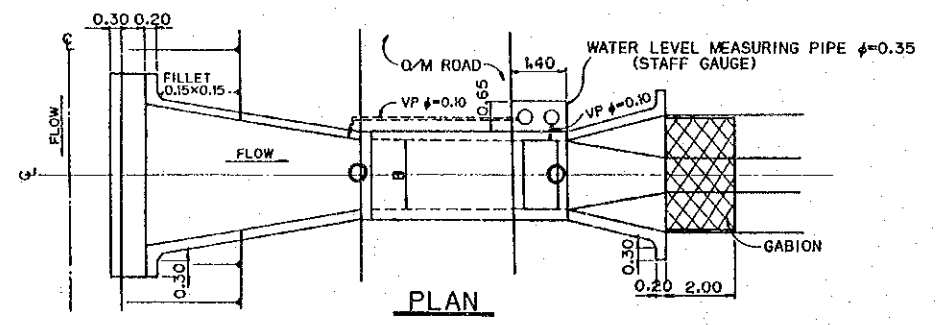
TYPE	Q (cum/sec)	H	J	B	I	d	a	l
A	Q ≤ 0.5	2.00	1.50	1.30	0.20	1.00	0.90	0.80
B	0.5 < Q ≤ 1.5	2.00	1.80	1.50	0.20	1.35	1.20	1.20
C	1.5 < Q ≤ 3.0							
D	3.0 < Q ≤ 4.5							
E	4.5 < Q ≤ 6.0							
F	Q > 6.0							



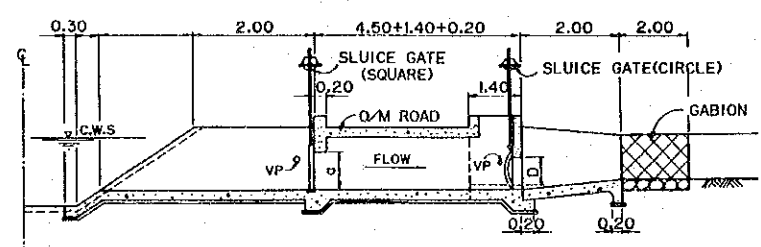
PLAN



PROFILE



PLAN



PROFILE

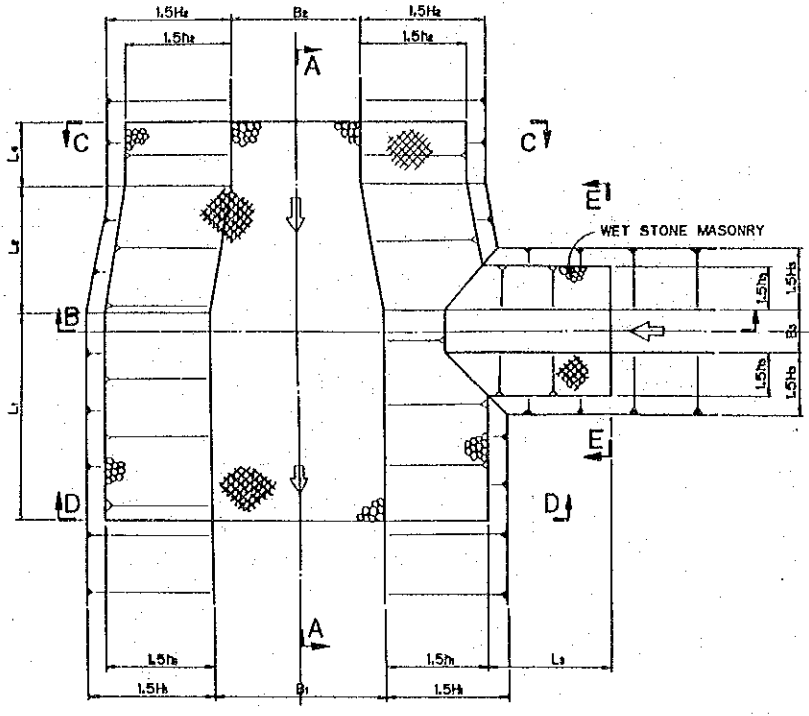
ISLAMIC REPUBLIC OF IRAN
 MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
 THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
 IN THE HARAZ RIVER BASIN

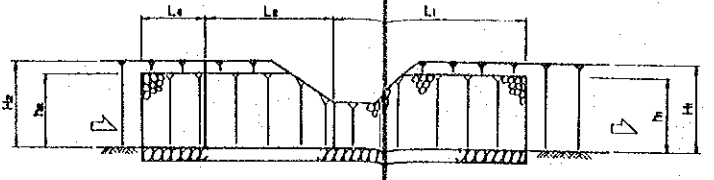
TYPICAL DRAWINGS
 OF
 TURNOUT

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 62 CS-4

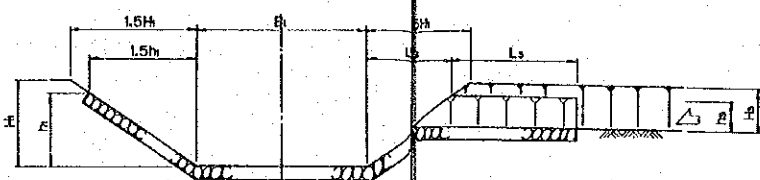
TYPE-C₁



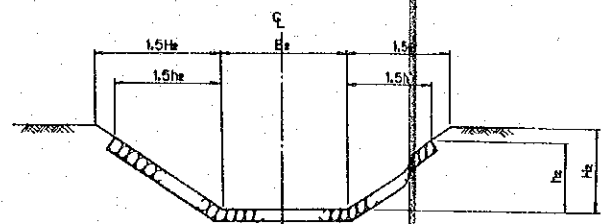
PLAN



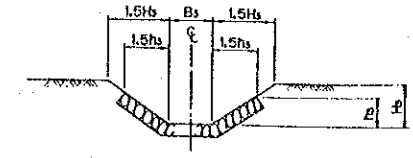
SECTION A-A



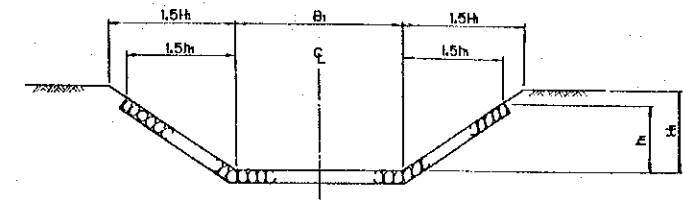
SECTION B-B



SECTION C-C

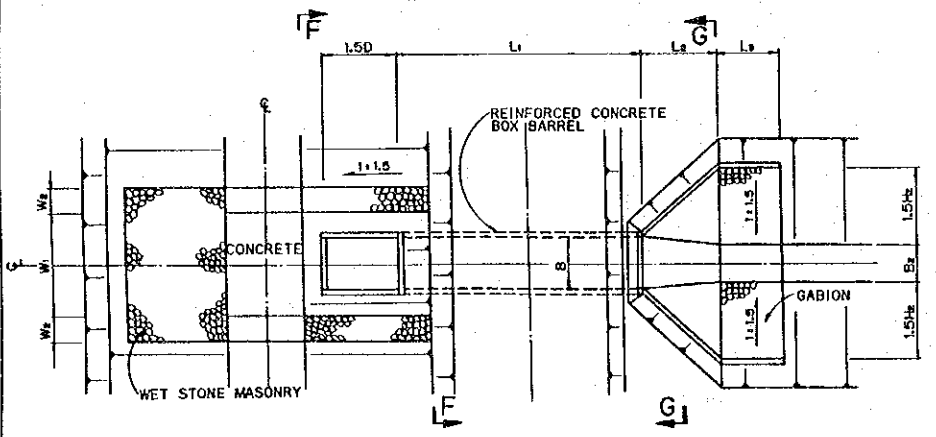


SECTION E-E

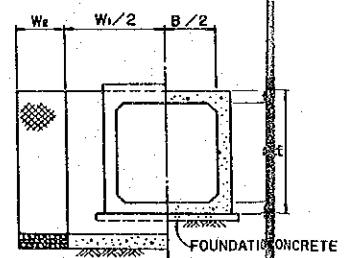


SECTION D-D

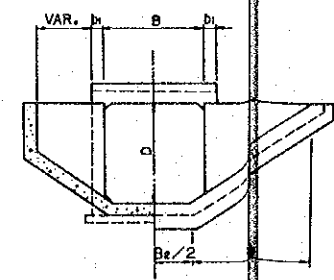
TYPE-C₂



PLAN

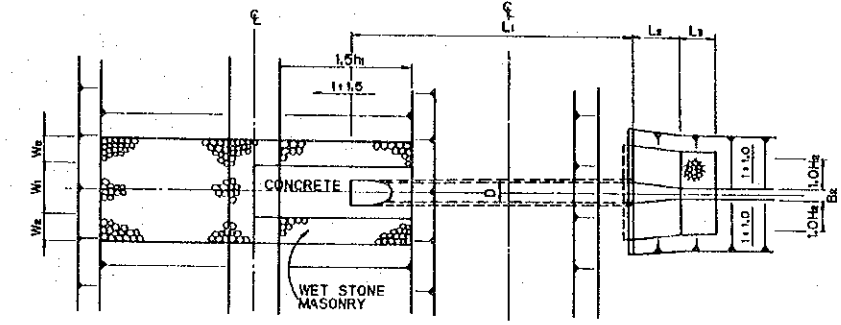


SECTION F-F

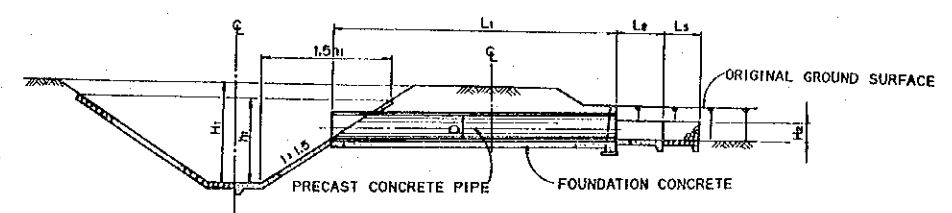


SECTION G-G

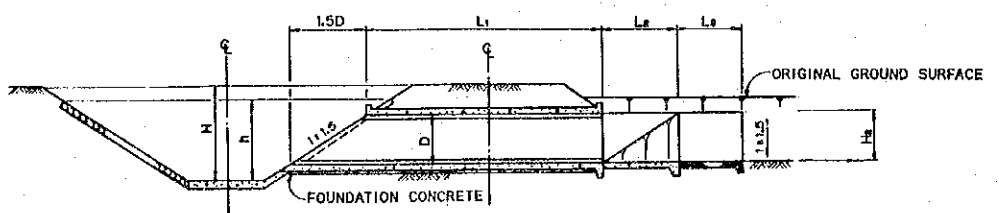
TYPE-S



PLAN

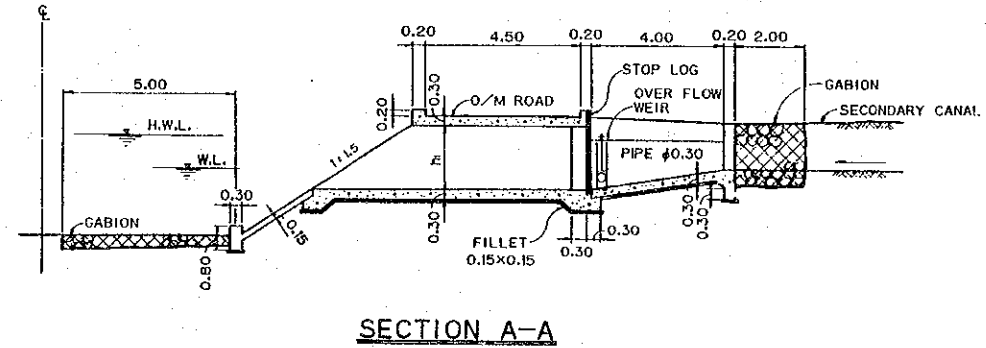
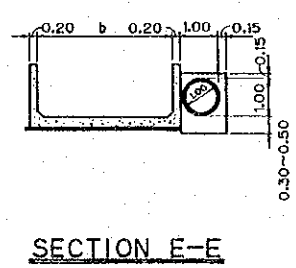
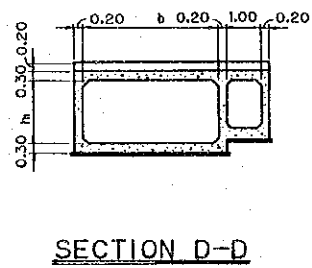
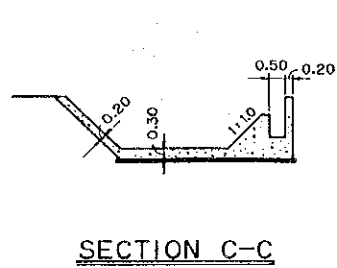
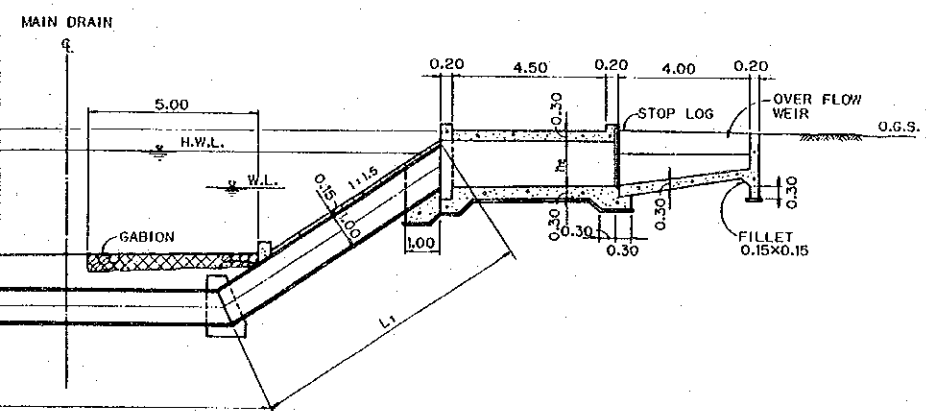
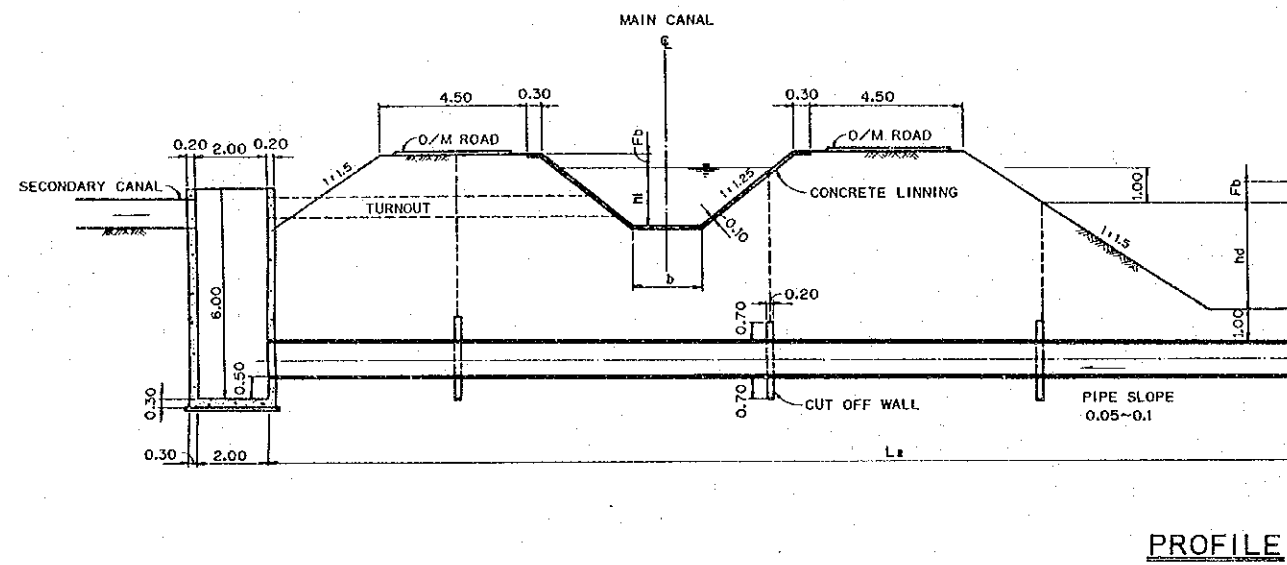
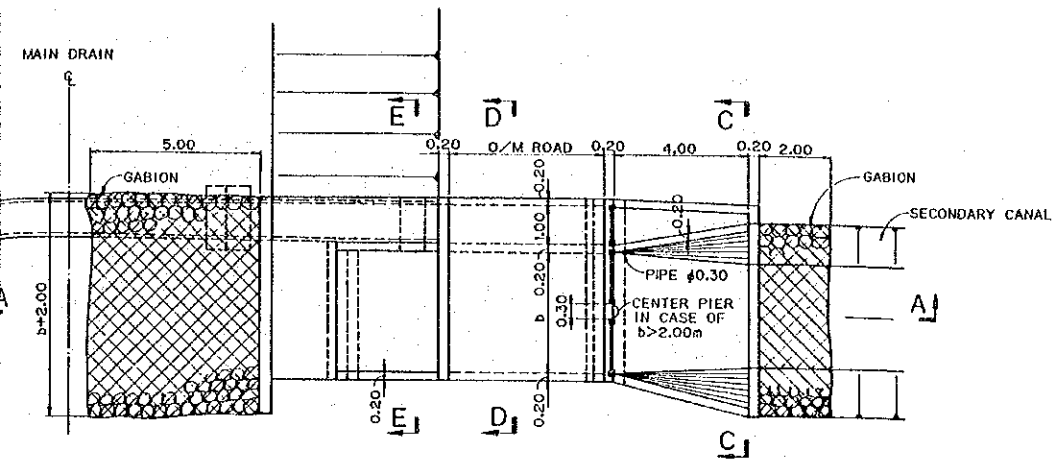
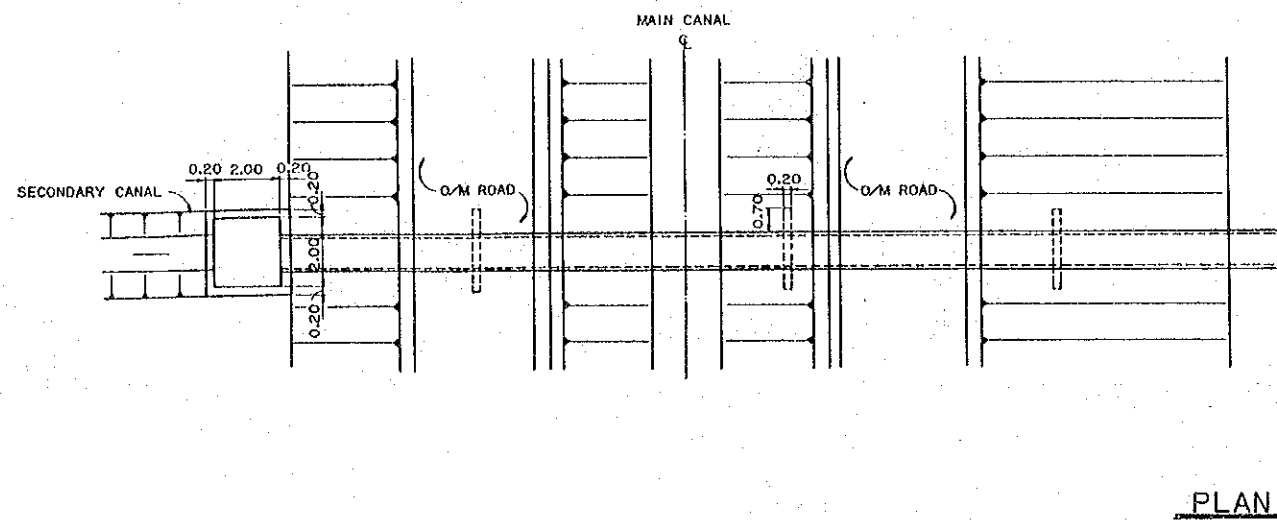


PROFILE

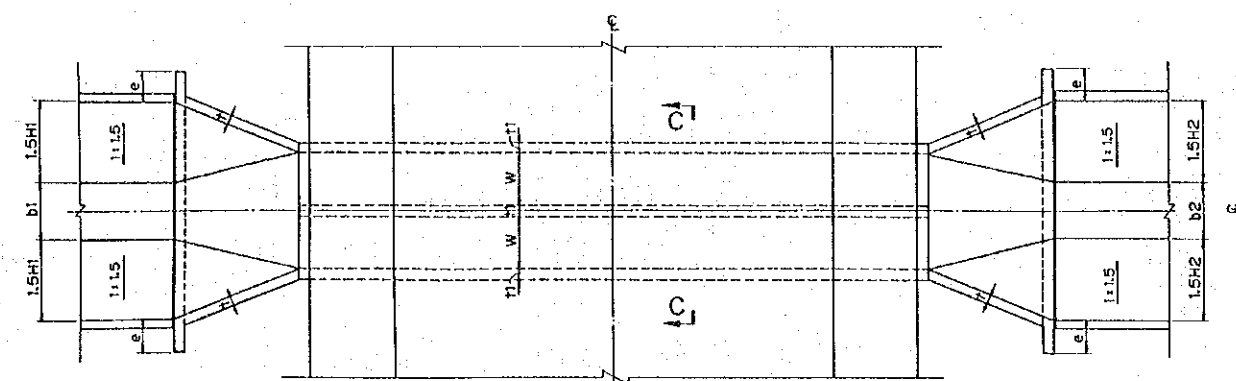


PROFILE

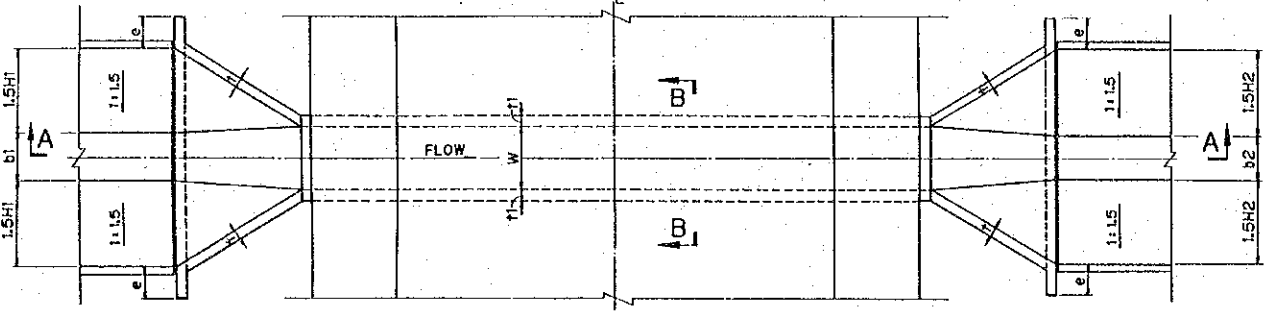
ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
TYPICAL DRAWINGS OF JUNCTION	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 63 CS-5



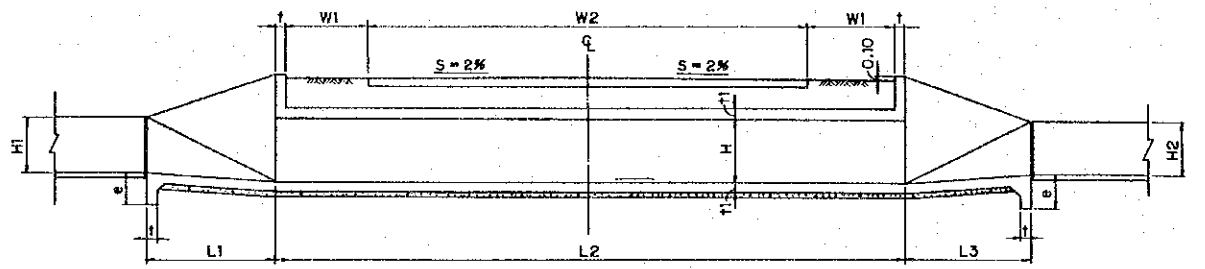
ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
TYPICAL DRAWINGS OF CROSS CULVERT (MAIN DRAIN)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 64 CS-6



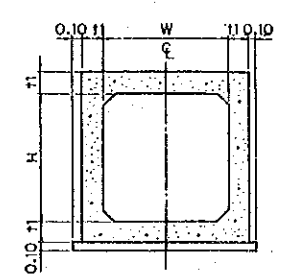
PLAN (TYPE A)



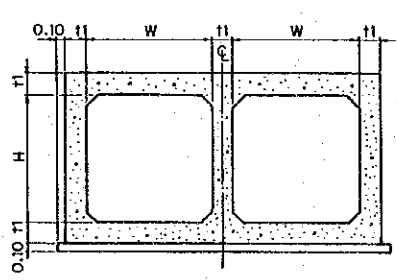
PLAN



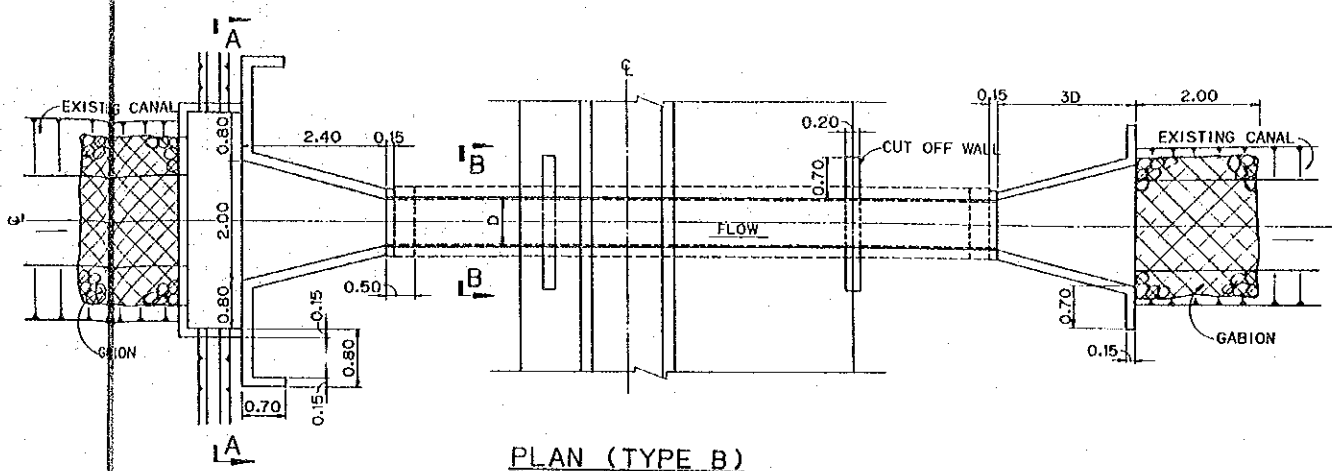
SECTION A-A



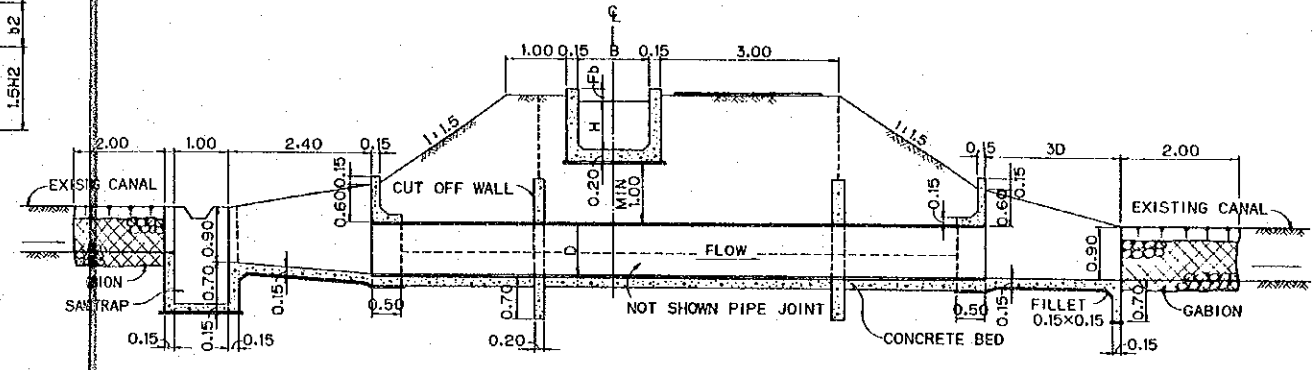
SECTION B-B



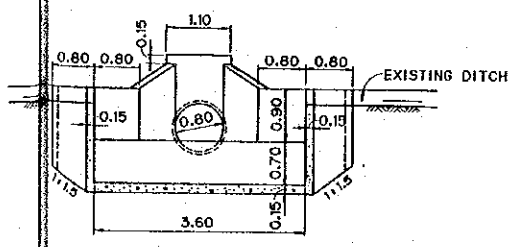
SECTION C-C



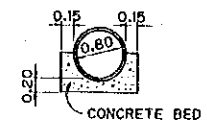
PLAN (TYPE B)



PROFILE

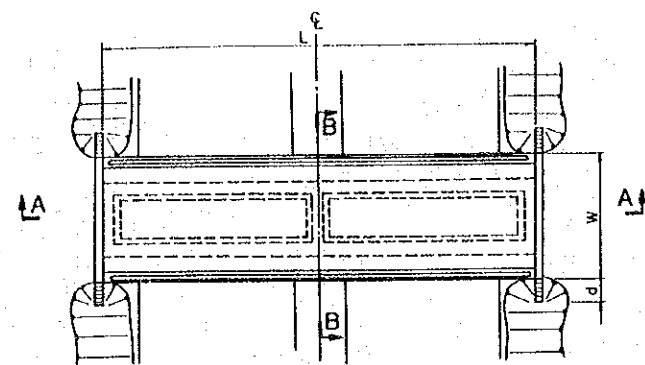


SECTION A-A

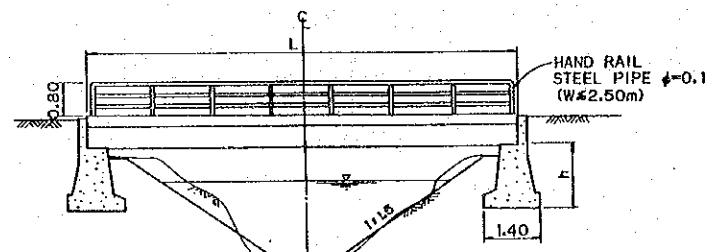


SECTION B-B

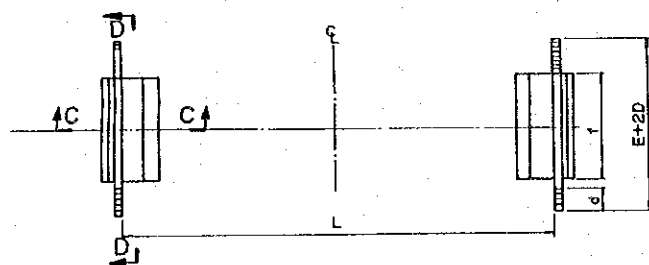
ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
TYPICAL DRAWINGS OF CROSS CULVERT	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 65 CS-7



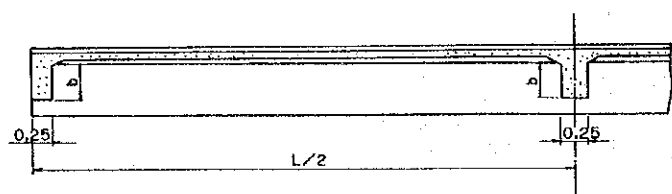
PLAN (UPPER)



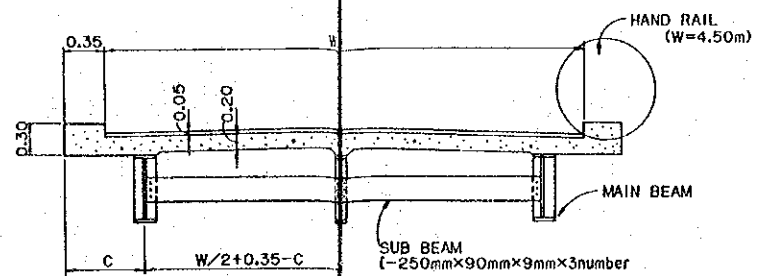
PROFILE



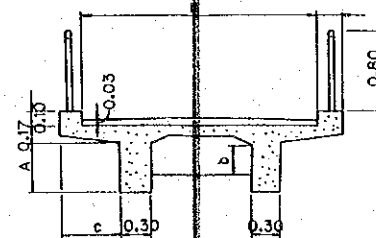
PLAN (LOWER)



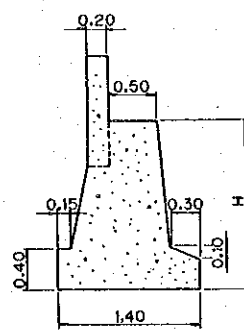
SECTION A-A



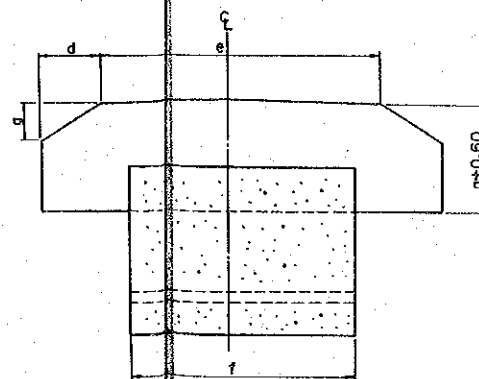
SECTION B-B (W=4.50m)



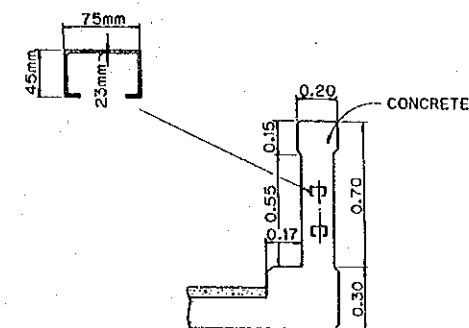
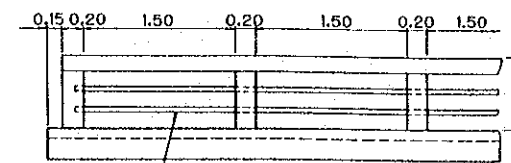
SECTION B-B (W=2.50m)



SECTION C-C



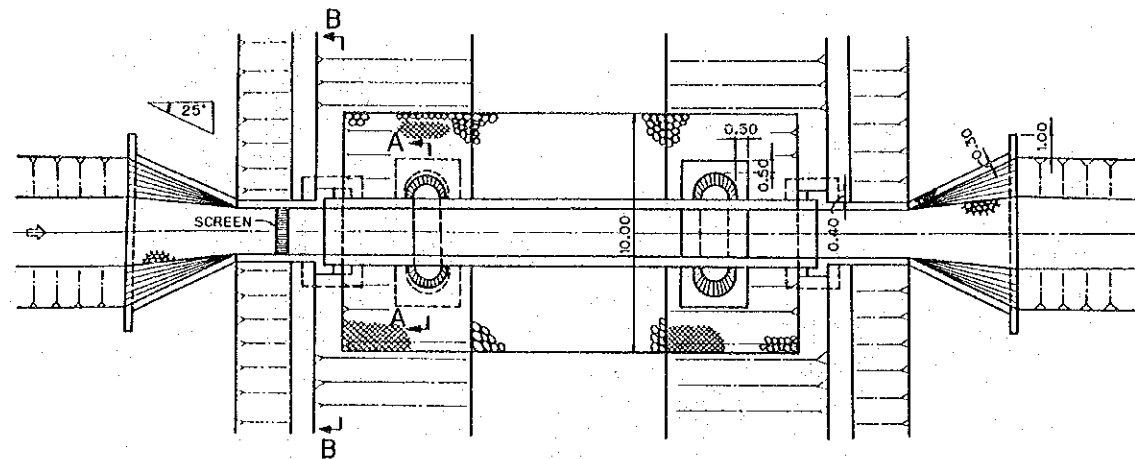
SECTION D-D



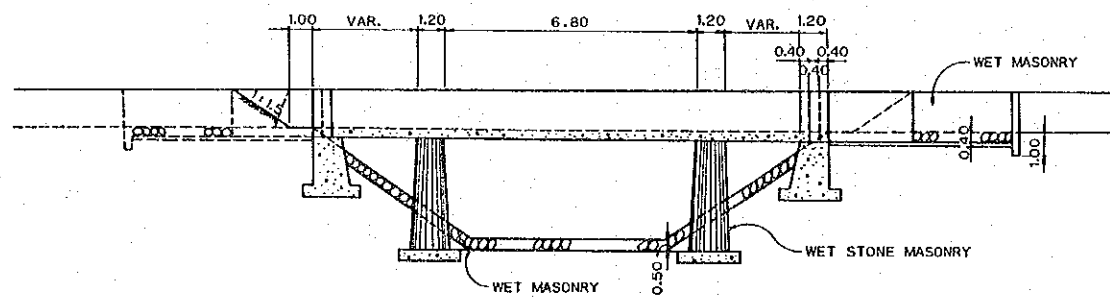
HAND RAIL (W=4.50m)

ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
TYPICAL DRAWINGS OF BRIDGE	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 66 CS-8

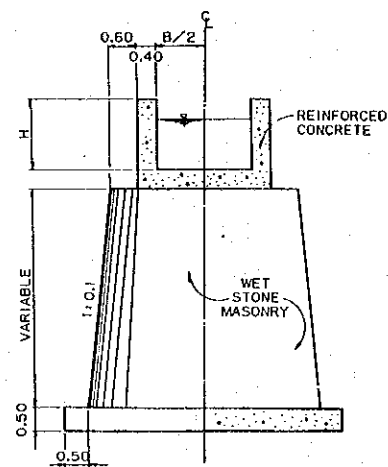
AQUEDUCT



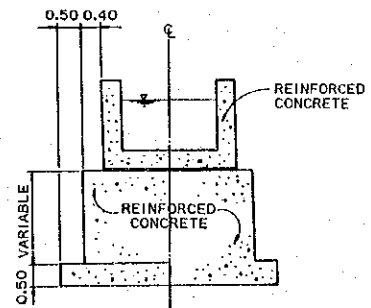
PLAN



PROFILE

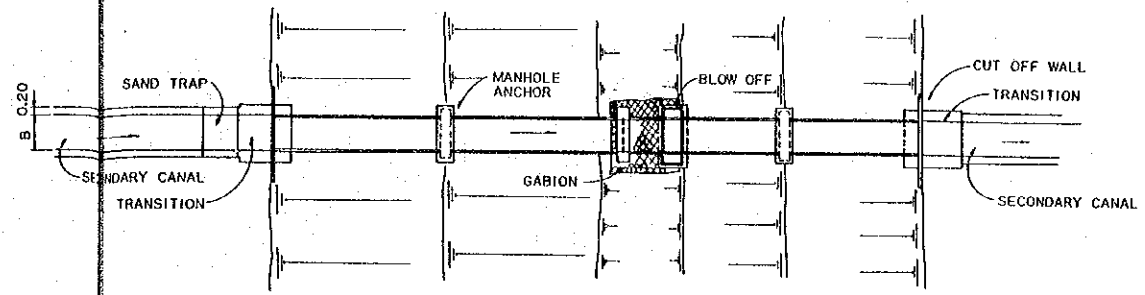


SECTION A-A

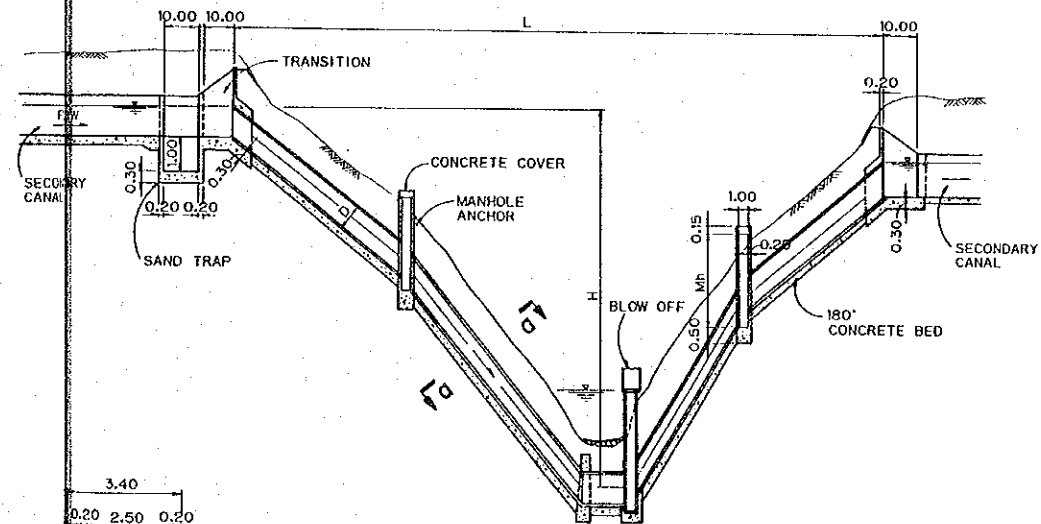


SECTION B-B

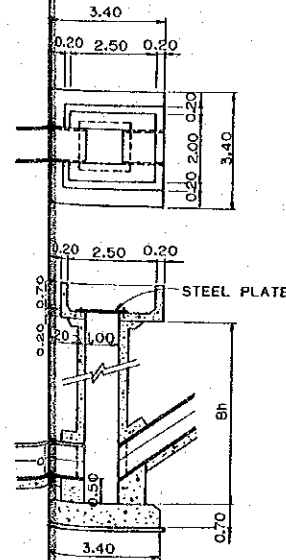
SIPHON



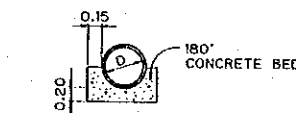
PLAN (HW-1)



PROFILE



BLOW OFF

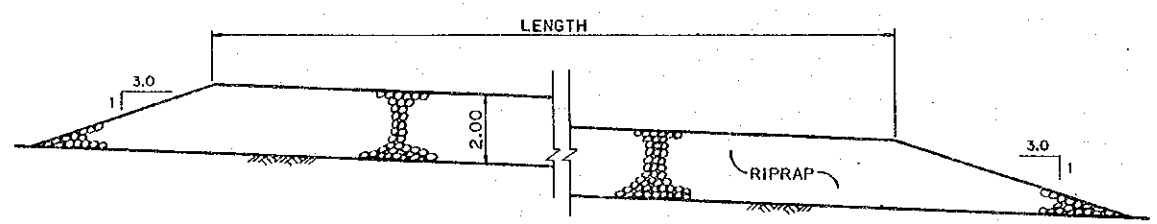
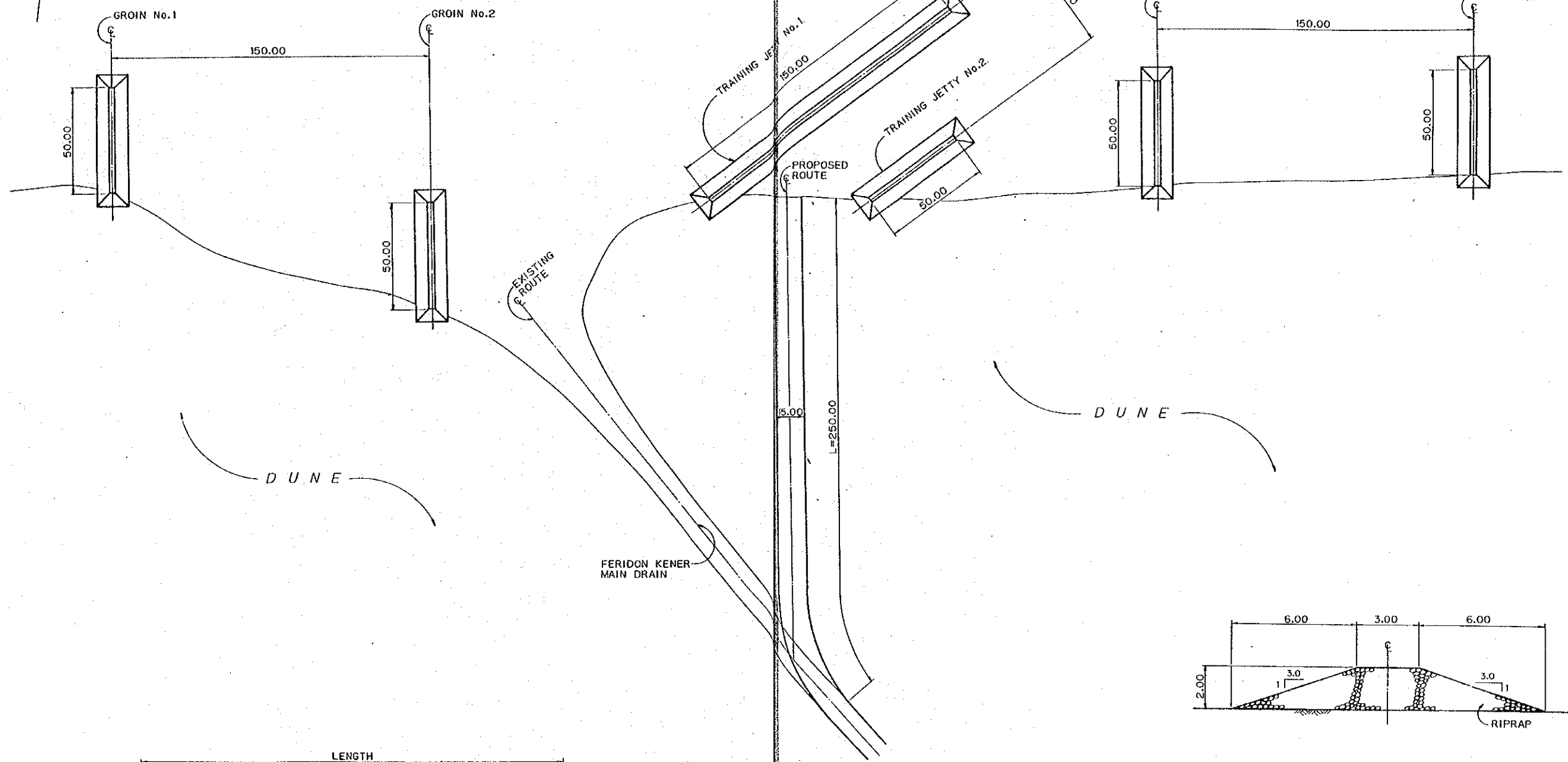


SECTION a-a

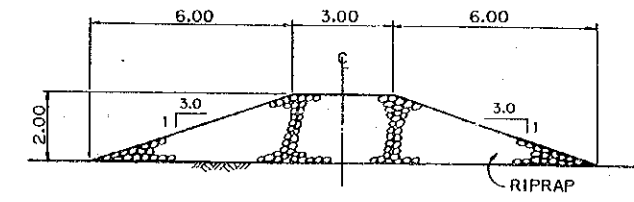
ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
TYPICAL DRAWINGS OF AQUEDUCT/SIPHON	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 67 CS-9



CASPIAN SEA

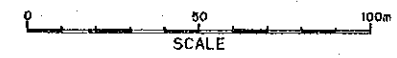


PROFILE OF GROIN & TRAINING JETTY

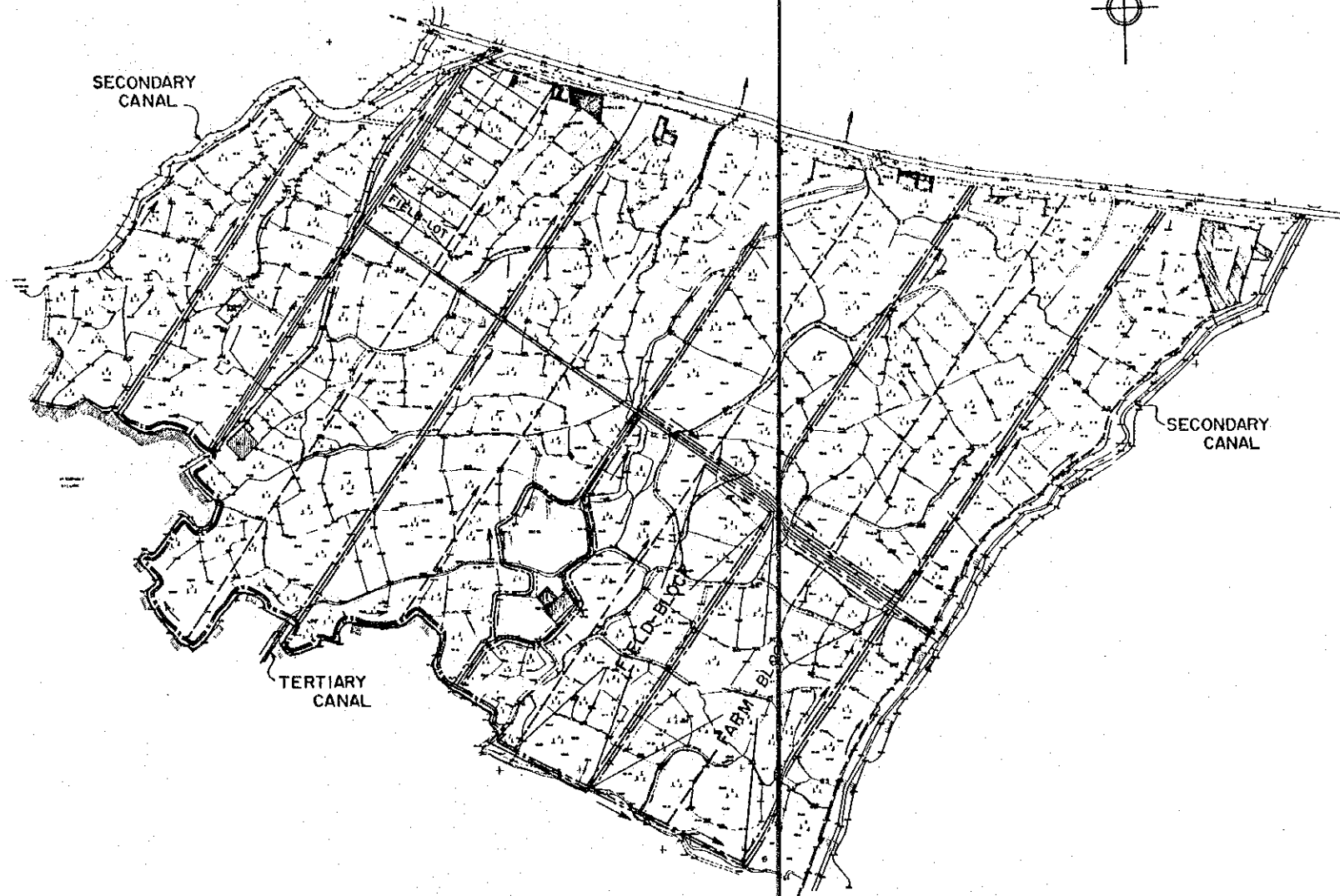


TYPICAL SECTION OF GROIN & TRAINING JETTY

PLAN

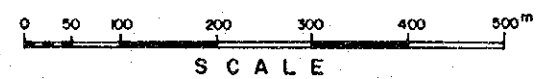


ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
TYPICAL DRAWINGS OF RIVER MOUTH IMPROVEMENT	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 68 CS-10



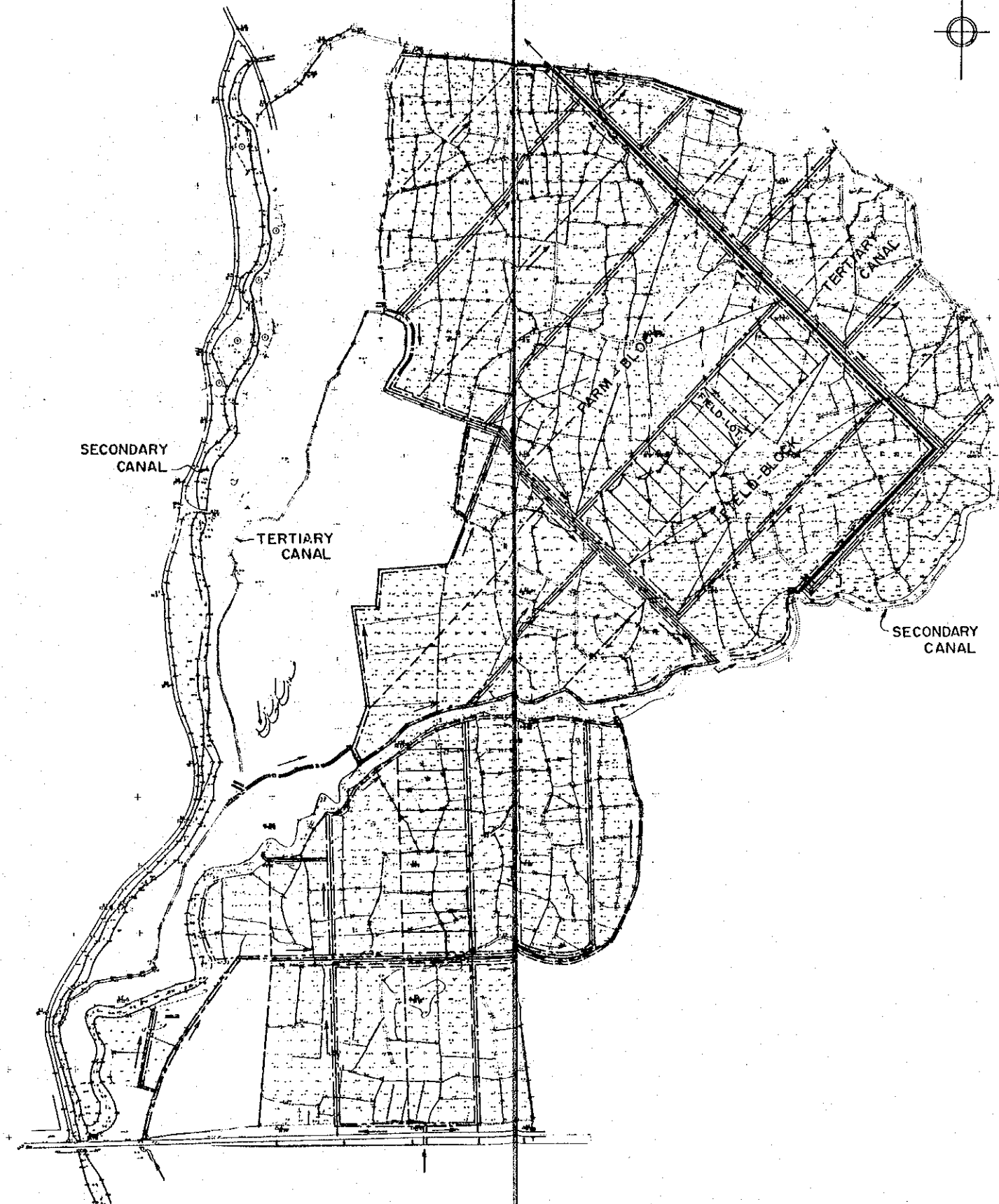
LEGEND

	Main Farm Road
	Lateral Farm Road
	Lateral Irrigation Ditch
	Irrigation Ditch
	Lateral Drainage Ditch
	Drainage Ditch
	Division Works



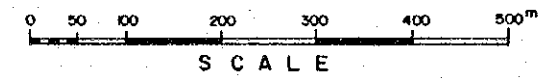
ISLAMIC REPUBLIC OF IRAN
 MINISTRY OF AGRICULTURE (MOA)
 THE FEASIBILITY STUDY ON
 THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
 IN THE HARAZ RIVER BASIN
 ON-FARM DEVELOPMENT
 TYPE-A LAND CONSOLIDATION
 SAMPLE AREA (CATEPOSHT)
 GENERAL PLAN

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 62 OF-1



LEGEND

	Main Farm Road
	Lateral Farm Road
	Lateral Irrigation Ditch
	Irrigation Ditch
	Lateral Drainage Ditch
	Drainage Ditch
	Division Works

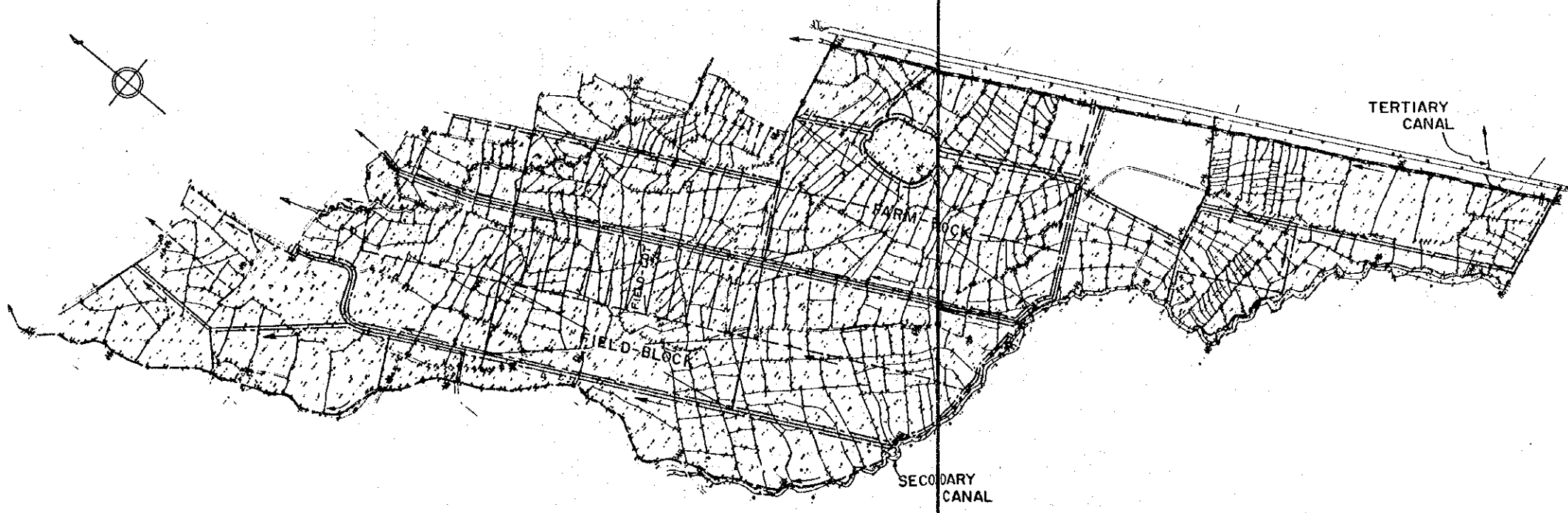


ISLAMIC REPUBLIC OF IRAN
 MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
 THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
 IN THE HARAZ RIVER BASIN

ON-FARM DEVELOPMENT
 TYPE - A LAND CONSOLIDATION
 SAMPLE AREA (EJBARKOLA)
 GENERAL PLAN

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 70 OF-2

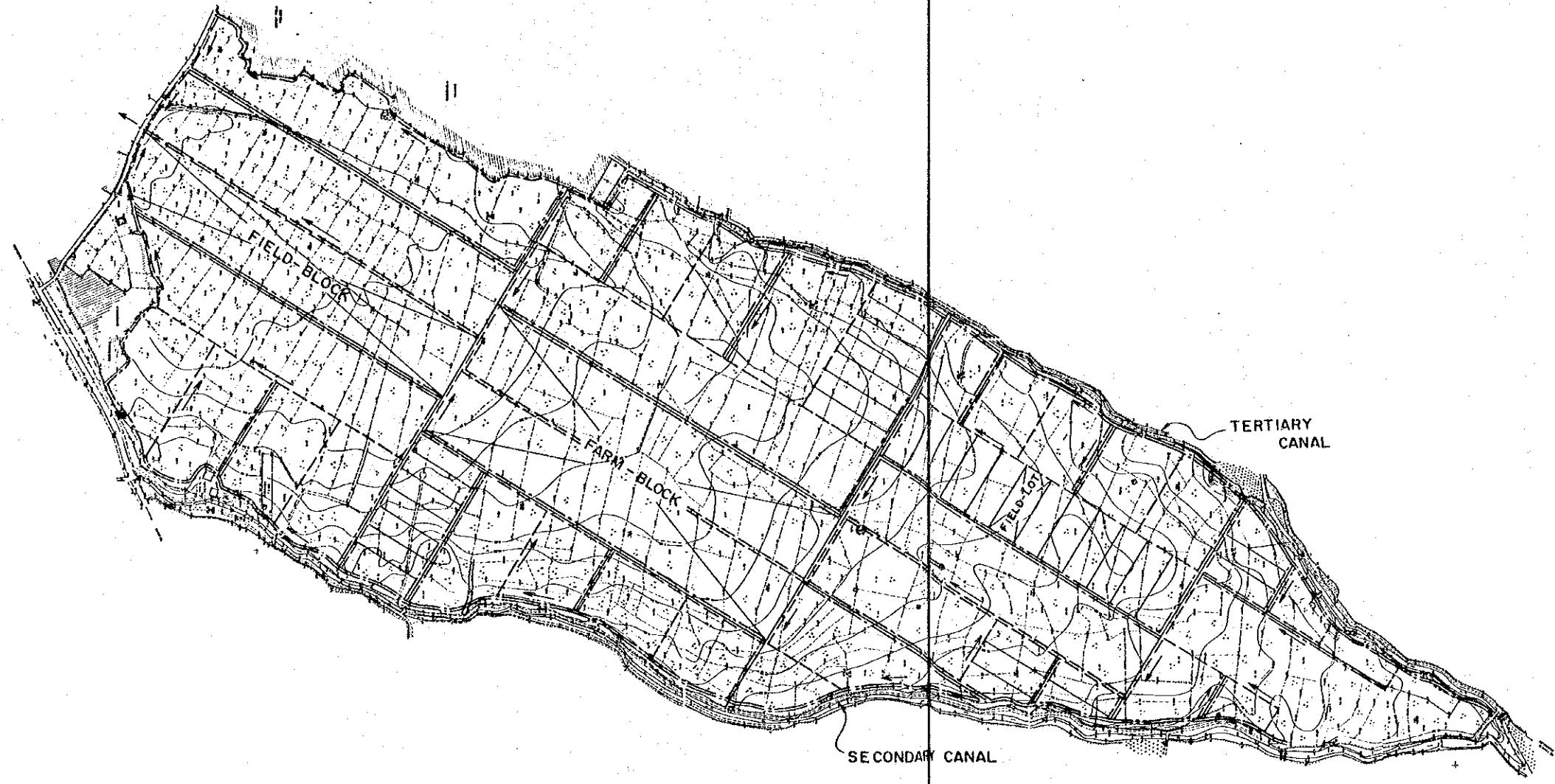
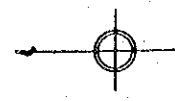


LEGEND

	Main Farm Road
	Lateral Farm Road
	Lateral Irrigation Ditch
	Irrigation Ditch
	Lateral Drainage Ditch
	Drainage Ditch
	Division Works

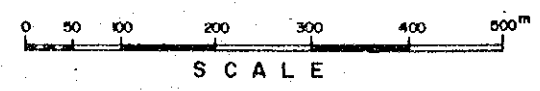


ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
ON-FARM DEVELOPMENT TYPE - A LAND CONSOLIDATION SAMPLE AREA (ESLAMABAD) GENERAL PLAN	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 71 OF-3

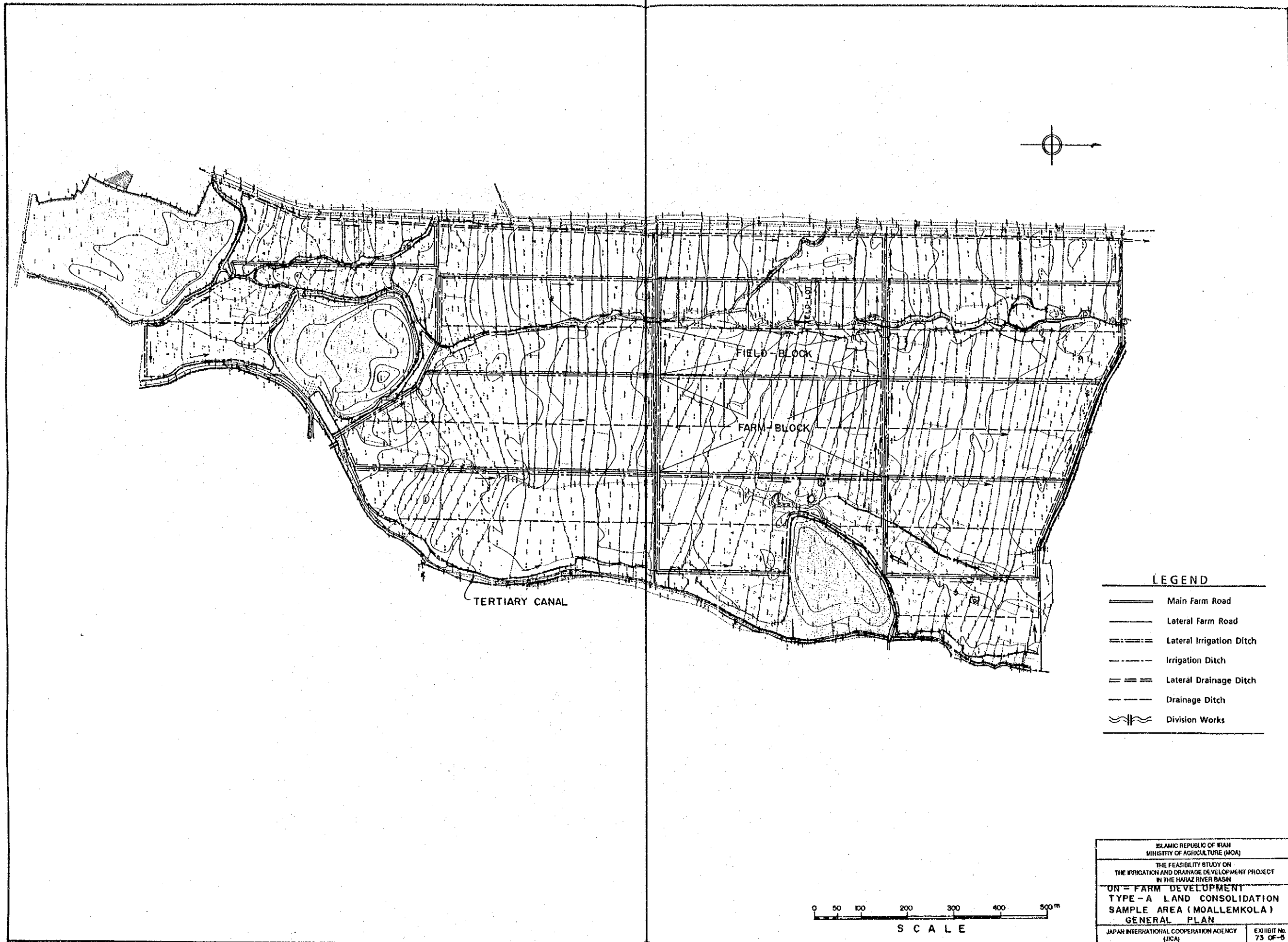


LEGEND

- ==== Main Farm Road
- Lateral Farm Road
- ==== Lateral Irrigation Ditch
- Irrigation Ditch
- ==== Lateral Drainage Ditch
- Drainage Ditch
- ~ ~ ~ ~ Division Works



ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)
THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HAFUZ RIVER BASIN
**ON-FARM DEVELOPMENT
TYPE - A LAND CONSOLIDATION
SAMPLE AREA (DARZIKOLA)
GENERAL PLAN**
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 72 OF-4



TERTIARY CANAL

FIELD-BLOCK

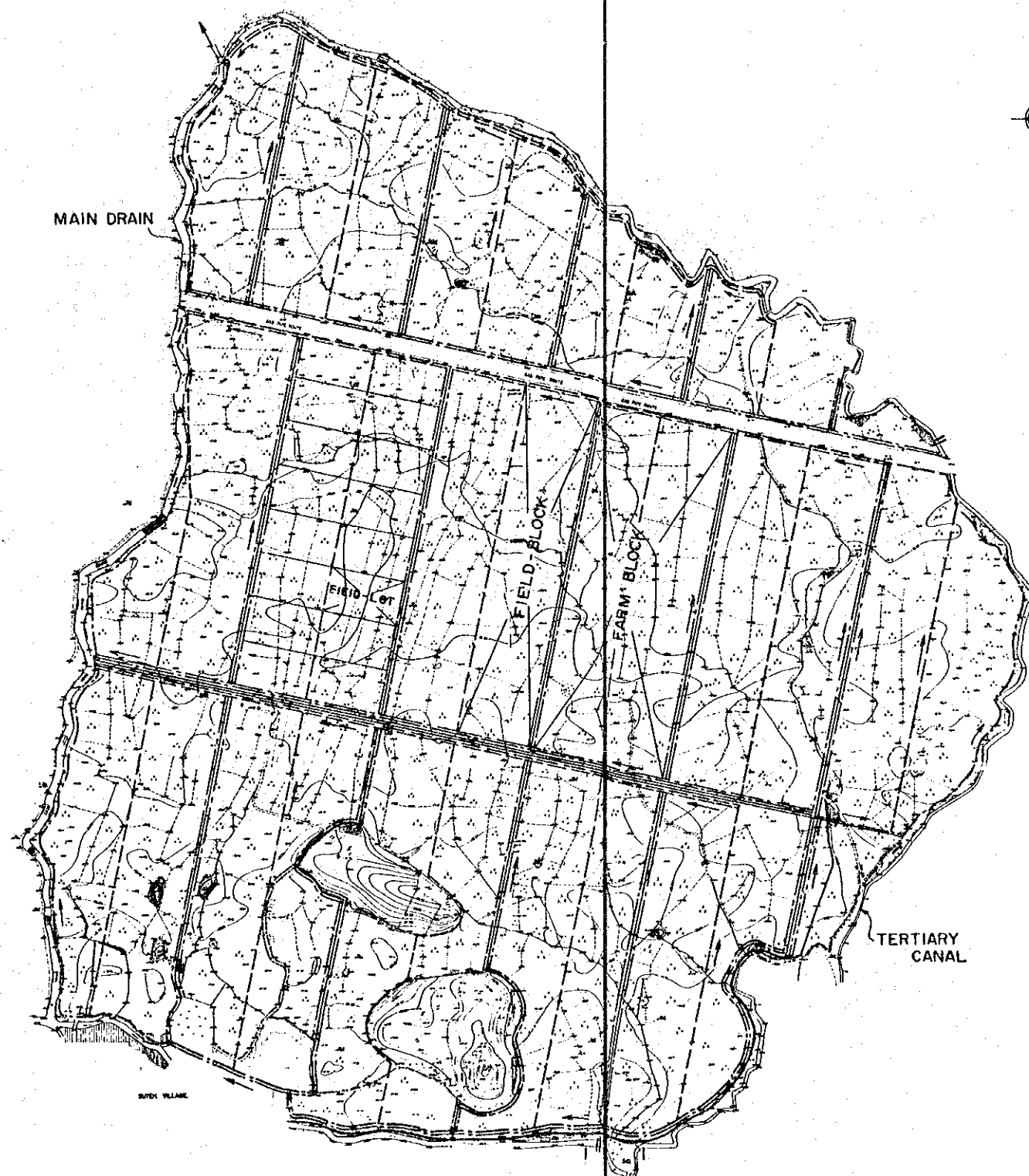
FARM-BLOCK

LEGEND

- ==== Main Farm Road
- Lateral Farm Road
- ==== Lateral Irrigation Ditch
- Irrigation Ditch
- ==== Lateral Drainage Ditch
- Drainage Ditch
- ~ ~ ~ Division Works

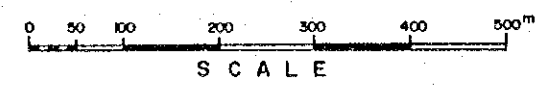


ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)
THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN
**ON-FARM DEVELOPMENT
TYPE-A LAND CONSOLIDATION
SAMPLE AREA (MOALLEMKOLA)
GENERAL PLAN**
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 73 OF-5

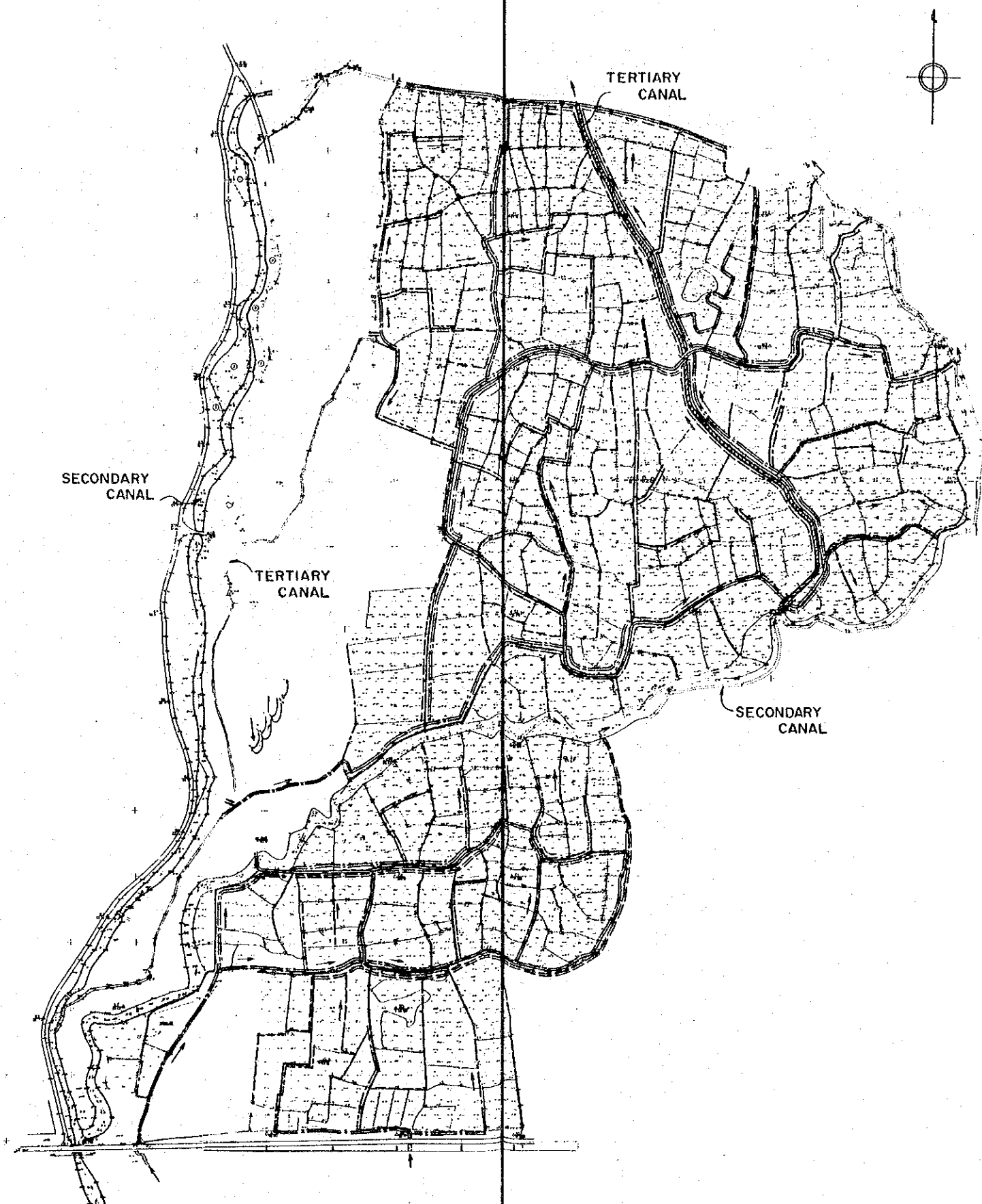


LEGEND

	Main Farm Road
	Lateral Farm Road
	Lateral Irrigation Ditch
	Irrigation Ditch
	Lateral Drainage Ditch
	Drainage Ditch
	Division Works



ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HAFIZ RIVER BASIN	
ON-FARM DEVELOPMENT TYPE - A LAND CONSOLIDATION SAMPLE AREA (SUTEH) GENERAL PLAN	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 74 OF-6



LEGEND

	Main Farm Road
	Lateral Farm Road
	Lateral Irrigation Ditch
	Irrigation Ditch
	Lateral Drainage Ditch
	Drainage Ditch
	Division Works

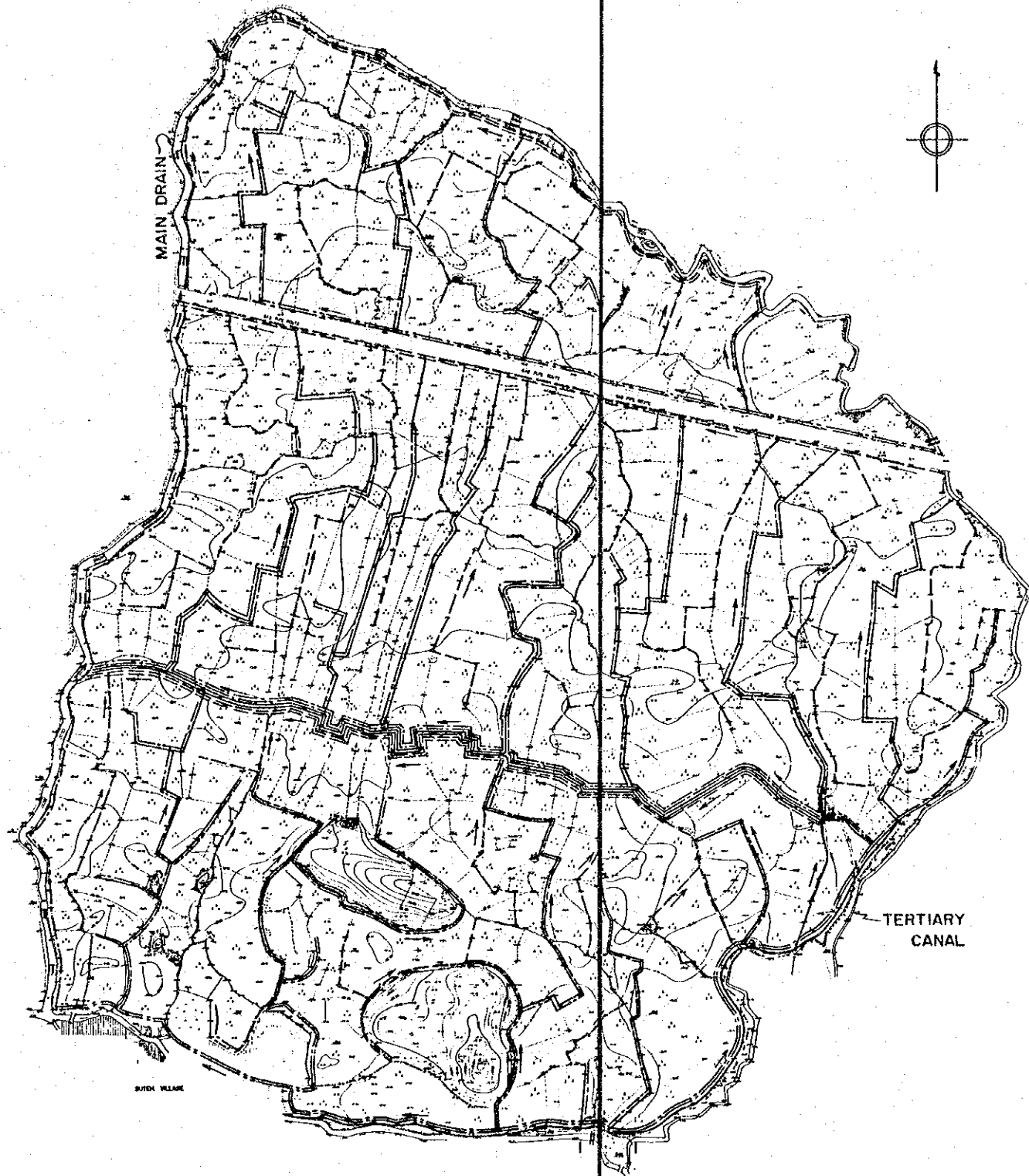


ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HANRAZ RIVER BASIN

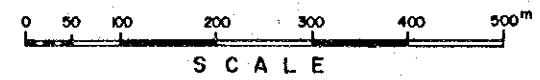
**ON-FARM DEVELOPMENT
TYPE-B LAND CONSOLIDATION
SAMPLE AREA (EJBARKOLA)
GENERAL PLAN**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 75 OF-7

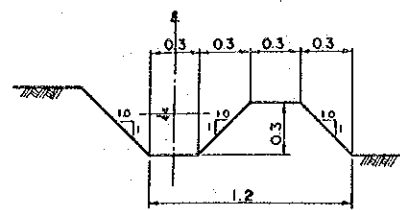


LEGEND

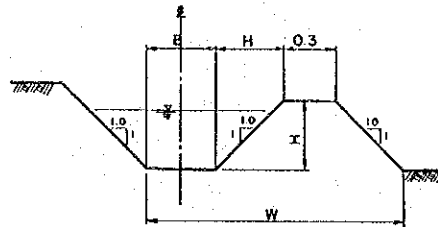
- Main Farm Road.
- Lateral Farm Road
- Lateral Irrigation Ditch
- Irrigation Ditch
- Lateral Drainage Ditch
- Drainage Ditch
- Division Works



ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
ON - FARM DEVELOPMENT TYPE - B LAND CONSOLIDATION SAMPLE AREA (SUTEH) GENERAL PLAN	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 76 OF-8



TYPICAL CROSS SECTION OF IRRIGATION DITCH

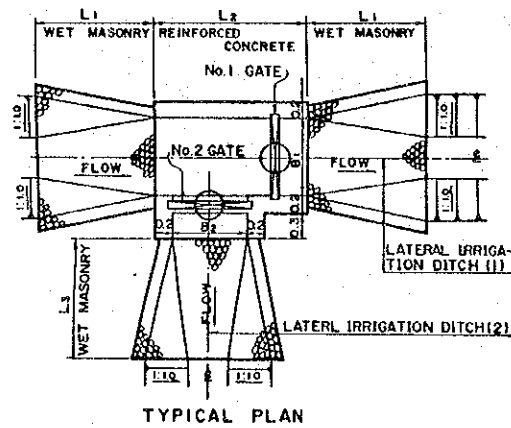


TYPICAL CROSS SECTION OF LATERAL IRRIGATION DITCH

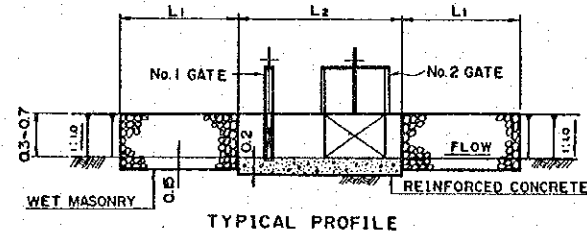
DIMENSION

TYPE	COMMAND AREA (HA)	B	H	W
I	~ 15	0.3	0.3	1.2
II	10 ~ 30	0.4	0.4	1.5
III	25 ~ 50	0.5	0.5	1.8
IV	45 ~ 85	0.6	0.6	2.1
V	80 ~ 100	0.7	0.7	2.4

TURNOUT



TYPICAL PLAN



TYPICAL PROFILE

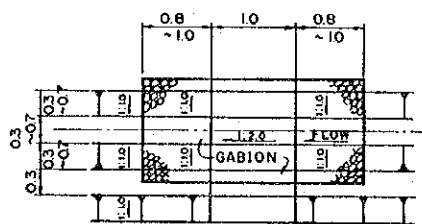
DIMENSION

TYPE	LATERAL IRR. DITCH (I)	L1	B1	No. 1 GATE
I	TYPE I	0.9	0.55	550x x 300H
II	II	1.2	0.75	750 x 400
III	III	1.4	0.9	900 x 500
IV	IV	1.7	1.1	1,100 x 600
V	V	2.0	1.3	1,300 x 700

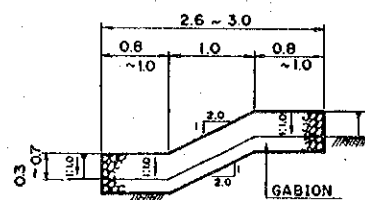
DIMENSION

TYPE	LATERAL IRR. DITCH (II)	L2	L3	B2	No. 2 GATE
I	TYPE I	1.55	0.9	0.55	550x x 300H
II	II	1.75	1.2	0.75	750 x 400
III	III	1.9	1.4	0.9	900 x 500
IV	IV	2.1	1.7	1.1	1,100 x 600
V	V	2.3	2.0	1.3	1,300 x 700

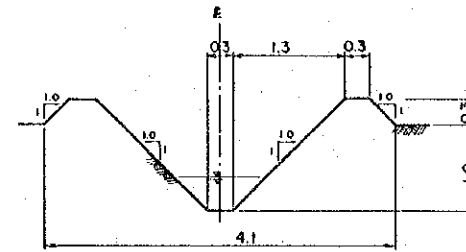
TERMINAL IRRIGATION DROP



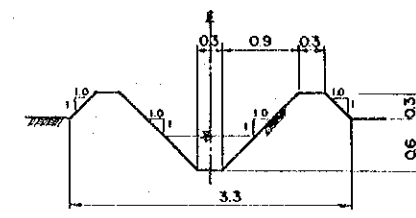
PLAN



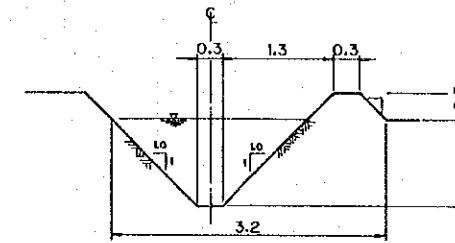
PROFILE



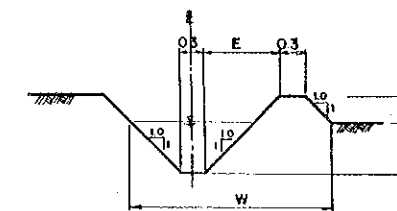
TYPICAL CROSS SECTION OF DRAINAGE DITCH (DEEP TYPE)



TYPICAL CROSS SECTION OF DRAINAGE DITCH (SHALLOW TYPE)



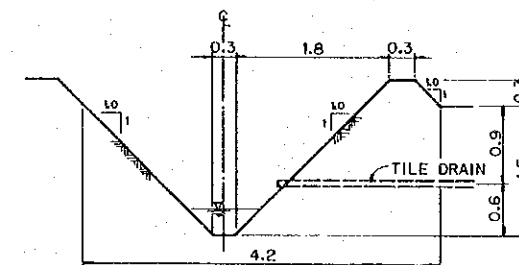
TYPICAL CROSS SECTION OF LATERAL DRAINAGE DITCH (DEEP TYPE)



TYPICAL CROSS SECTION OF LATERAL DRAINAGE DITCH (SHALLOW TYPE)

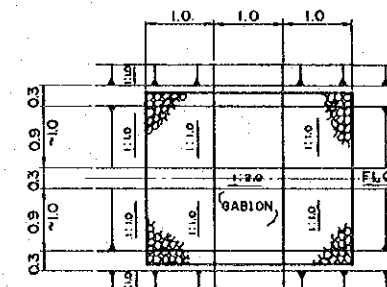
DIMENSION

TYPE	COMMAND AREA (HA)	H	E	W
I	~ 70	0.6	0.9	2.4
II	65 ~ 95	0.7	1.0	2.6

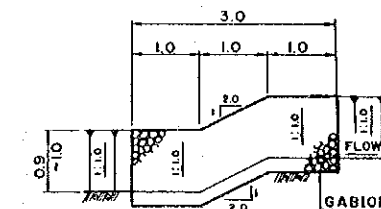


TYPICAL CROSS SECTION OF LATERAL DRAINAGE DITCH (DEEPER TYPE)

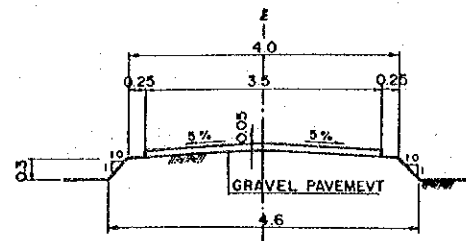
TERMINAL DRAINAGE DROP



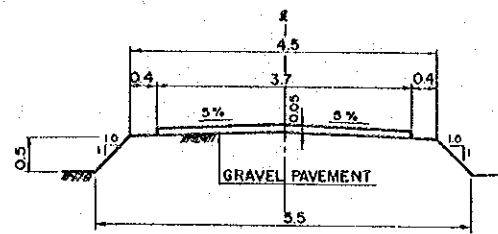
PLAN



PROFILE

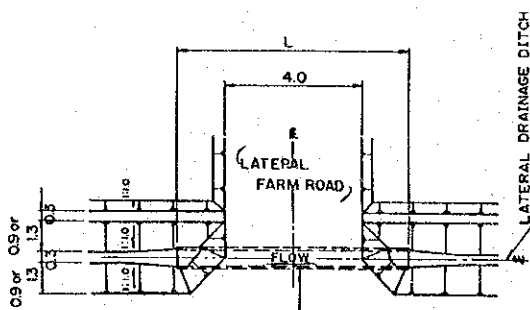


TYPICAL CROSS SECTION OF LATERAL FARM ROAD



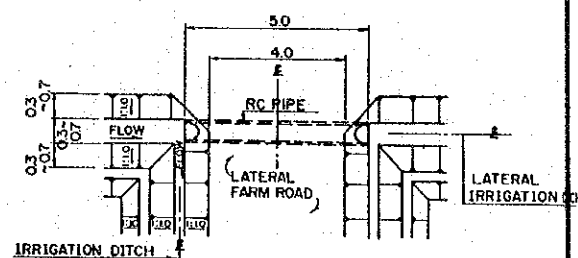
TYPICAL CROSS SECTION OF MAIN FARM ROAD

LATERAL DRAINAGE DITCH ROAD CROSSING

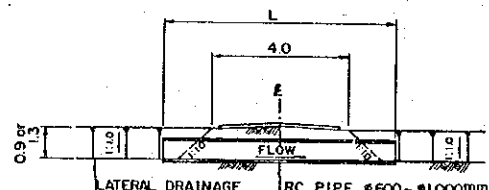


PLAN

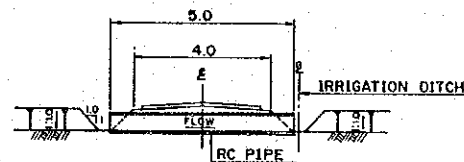
LATERAL IRRIGATION DITCH ROAD CROSSING



PLAN



PROFILE

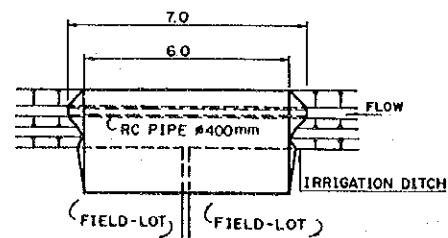


PROFILE

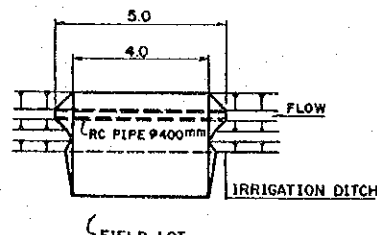
DIMENSION		
TYPE	LATERAL DRAINAGE DITCH	L
I	SHALLOW TYPE	6.0
II	DEEP TYPE	7.0

DIMENSION		
TYPE	RC PIPE	COMMAND AREA (HA)
I	φ 500mm	~ 20
II	φ 600	20 ~ 30
III	φ 800	30 ~ 60

ACCESS ROAD TO FIELD

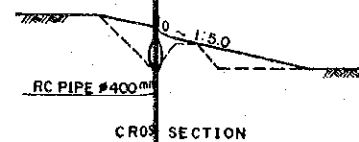


(TYPE - I)



(TYPE - II)

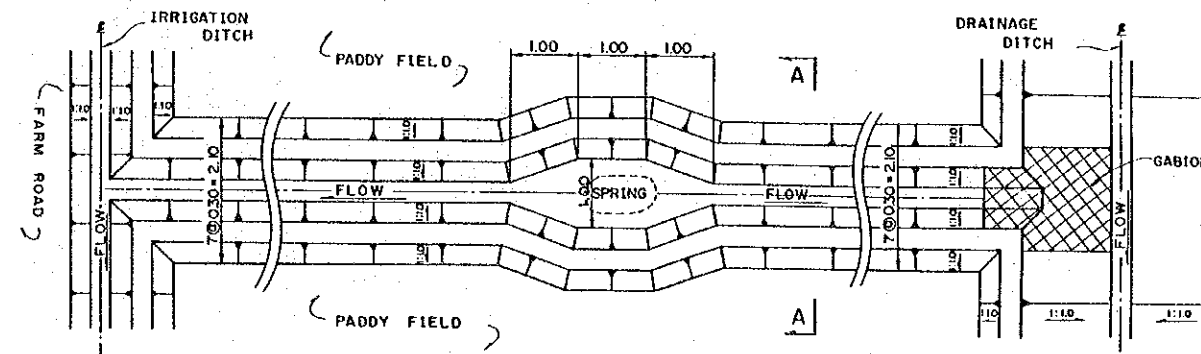
PLAN



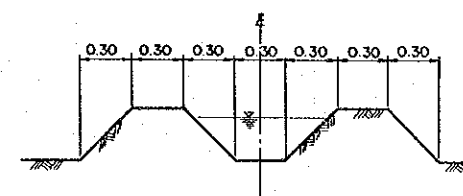
CROSS SECTION

Note) Type-I is applied when land slope is less than 1/100, and Type-II is more than 1/100.

SPRING WORKS

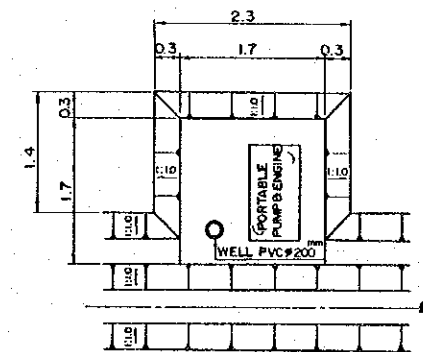


TYPICAL PLAN

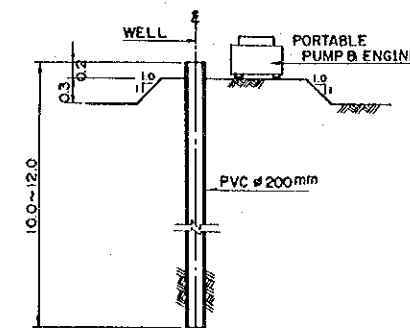


SECTION A - A

WELL WORKS

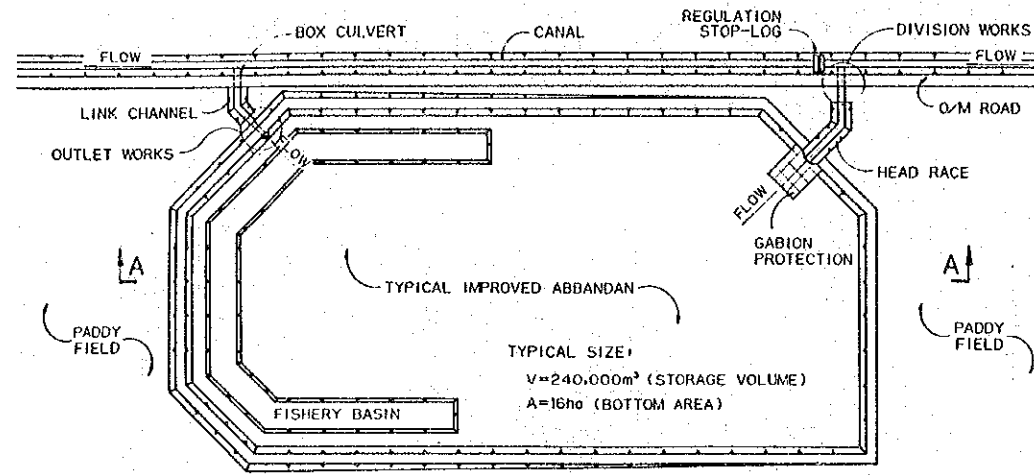


PLAN

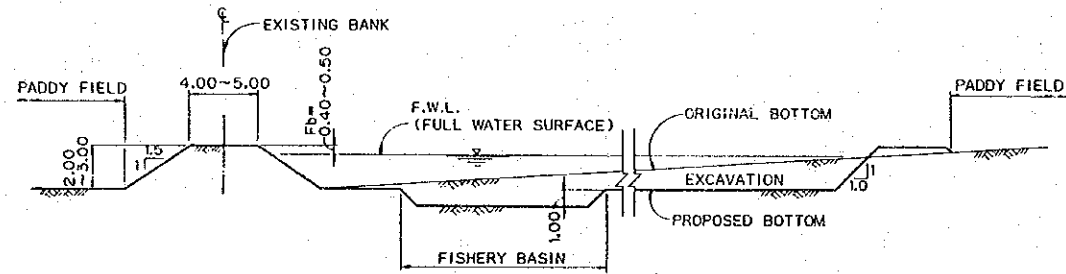


SIDE VIEW

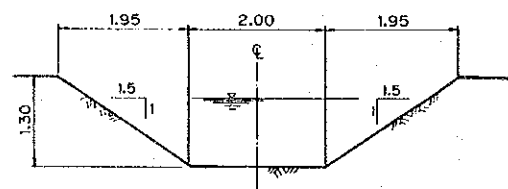
ABBANDAN



TYPICAL PLAN

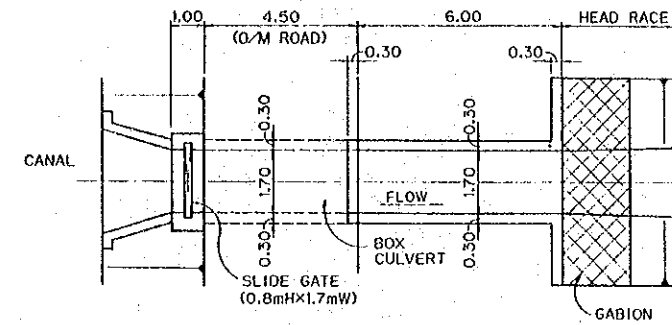


SECTION A-A

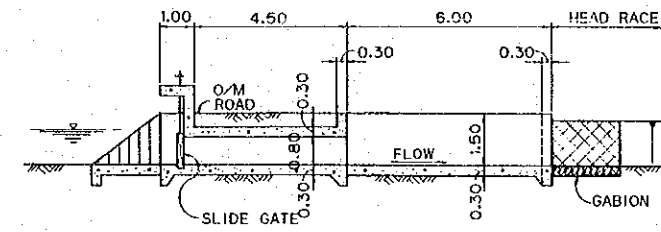


TYPICAL SECTION OF HEAD RACE & LINK CHANNEL

DIVISION WORKS

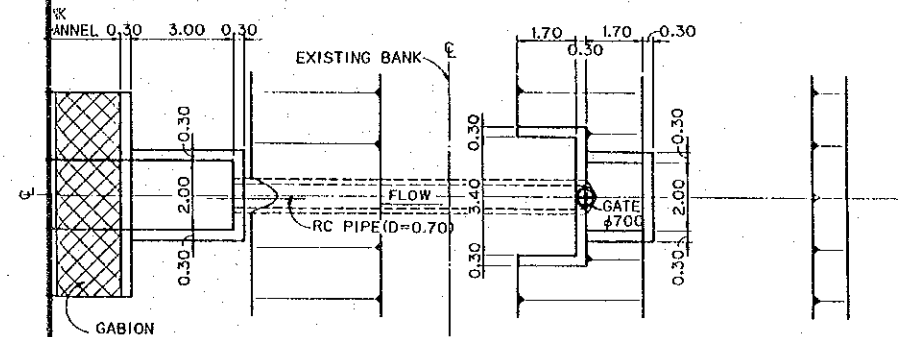


TYPICAL PLAN

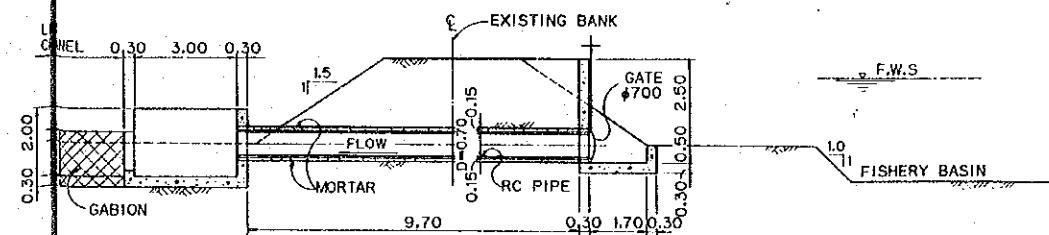


TYPICAL PROFILE

OUTLET WORKS



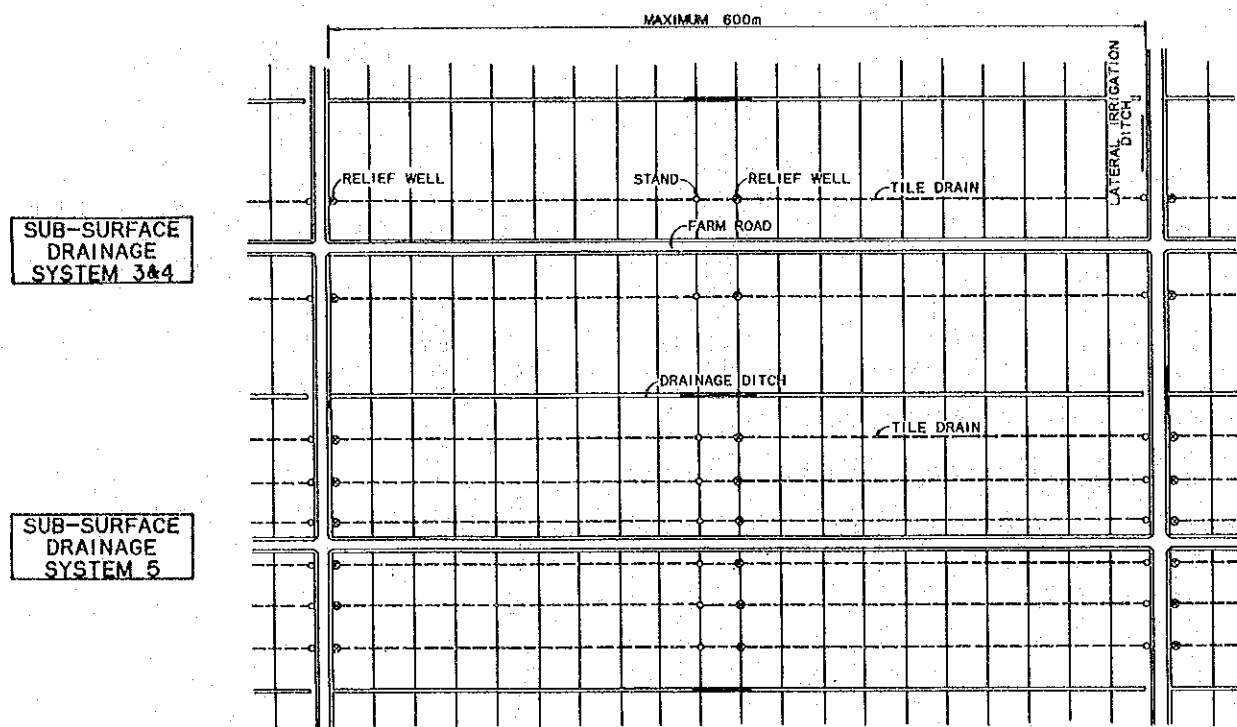
TYPICAL PLAN



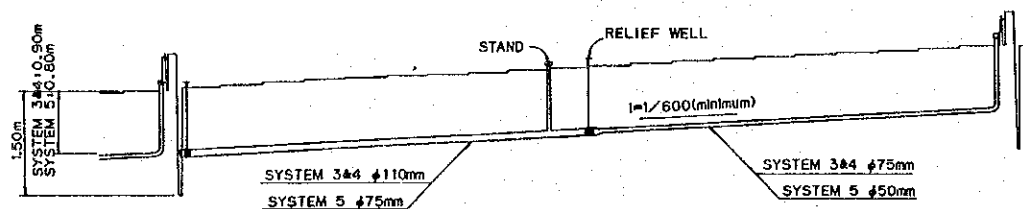
TYPICAL PROFILE

ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
ON-FARM DEVELOPMENT ABBANDAN IMPROVEMENT	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 79 OF-11

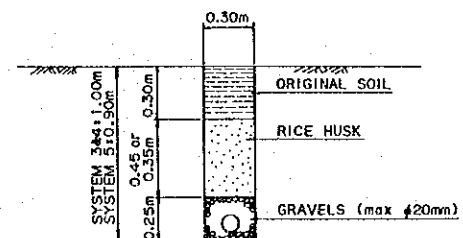
PLAN OF TILE DRAIN



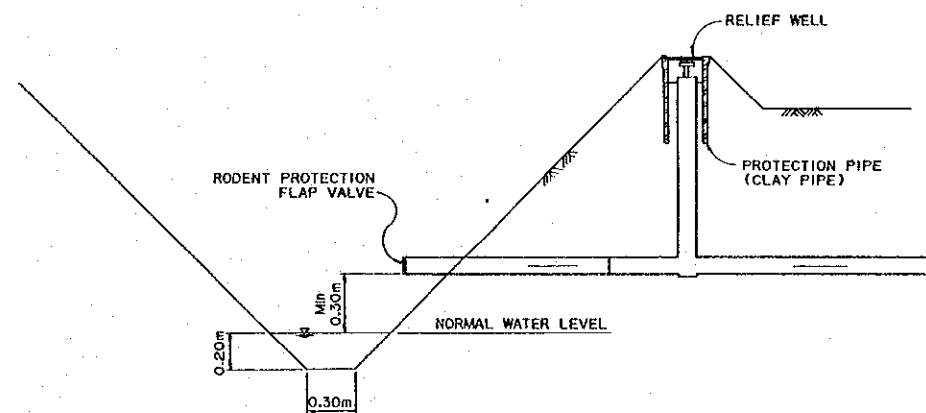
PROFILE OF TILE DRAIN



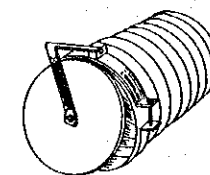
INSTALLATION SECTION OF TILE DRAIN



OUTLET OF TILE DRAIN

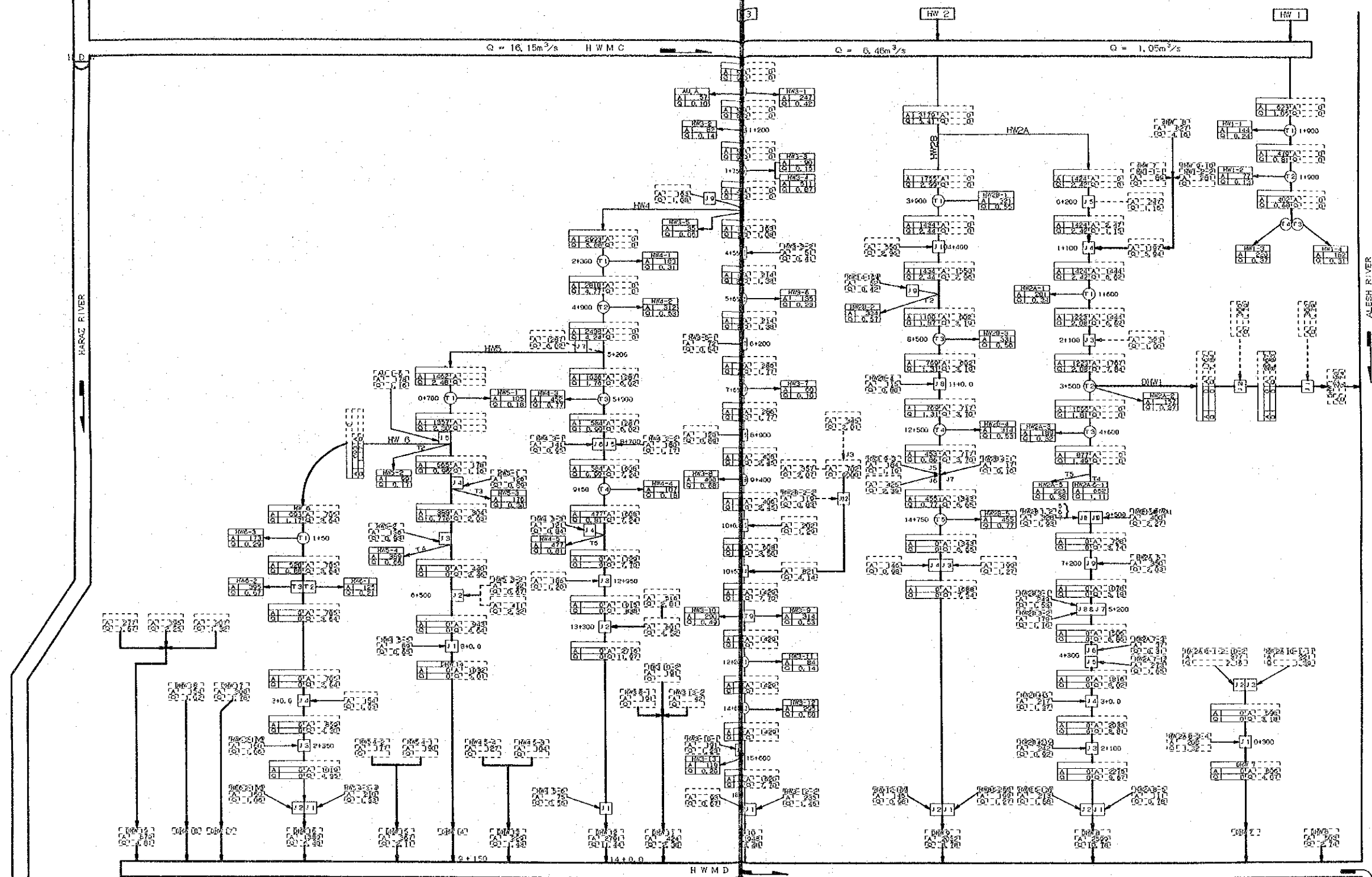


RODENT PROTECTION FLAP VALVE



ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
ON-FARM DEVELOPMENT PLAN OF TILE DRAIN	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 80 OF-12

**SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
(HW1-HW3) (DHW1-DHW19)**

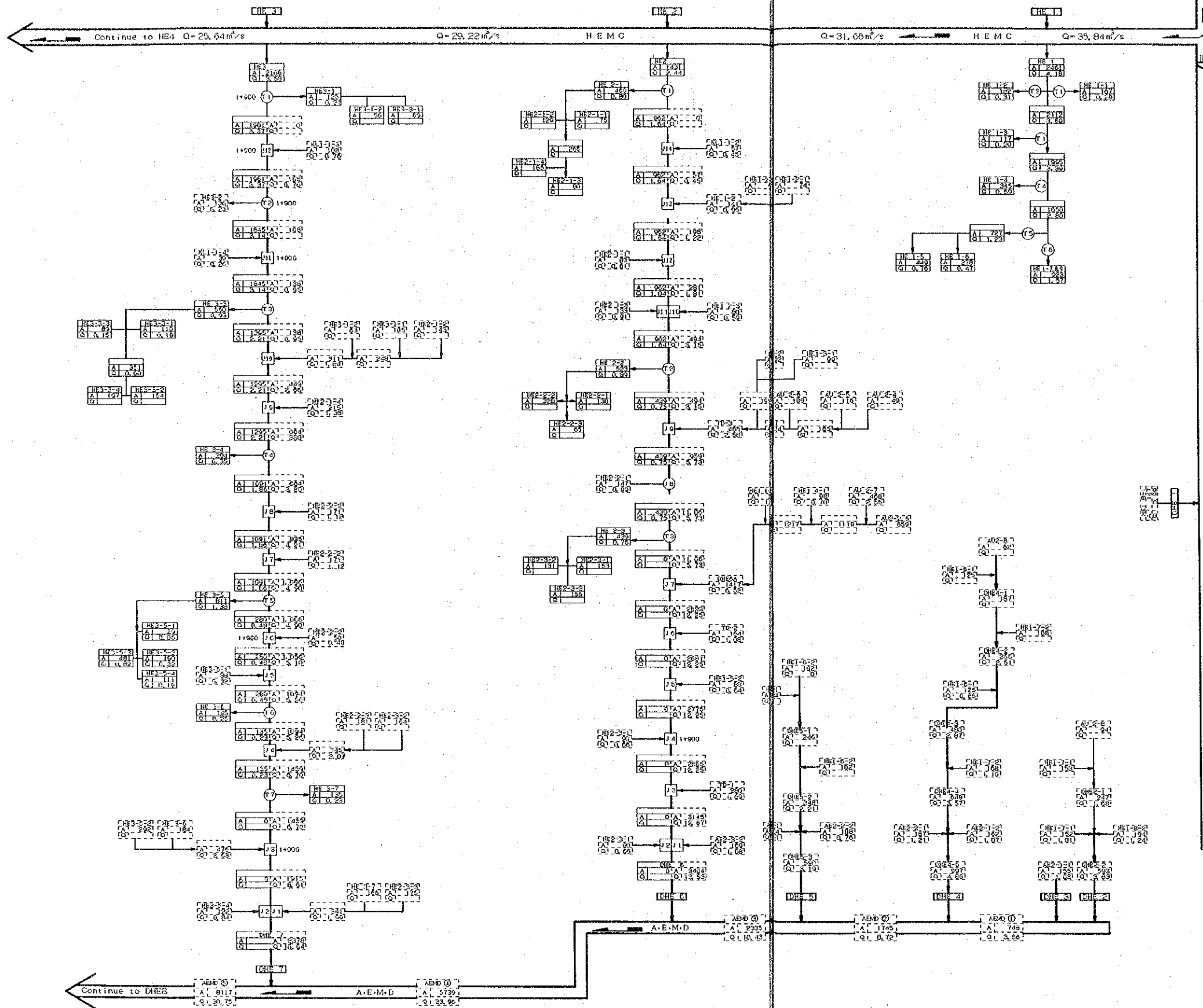


LEGEND and ABBREVIATIONS

- | | |
|-----------------------------------|--|
| D W : Haraz Diversion Weir | (DHE, DAW) : Out-let of Drainage Canal |
| D W : Amol Diversion Weir | Diagram of Irrigation |
| H W M C : Haraz West Main Canal | Diagram of Drainage |
| H E M C : Haraz East Main Canal | A : Acreage (ha) |
| A W M C : Amol West Main Canal | Q : Discharge m³/sec |
| A E M C : Amol East Main Canal | T : Turbout |
| A W M D : Amol West Main Drainage | I : In-let Works |
| A E M D : Amol East Main Drainage | |

ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (M.A)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE	
IRRIGATION : HW1-HW3 DRAINAGE : DHW1-DHW19 (HW1/1)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 81 SD-1

**SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
(HE1~HE3) (DHE1~DHE7)**



LEGEND and ABBREVIATIONS

- H D W: Haraz Diversion Weir
- A D W: Amol Diversion Weir
- H W M C: Haraz West Main Canal
- H E M C: Haraz East Main Canal
- A W M C: Amol West Main Canal
- A E M C: Amol East Main Canal
- A W M D: Amol West Main Drainage
- A E M D: Amol East Main Drainage

(DHE), (DAW): Out-let of Drainage Canal

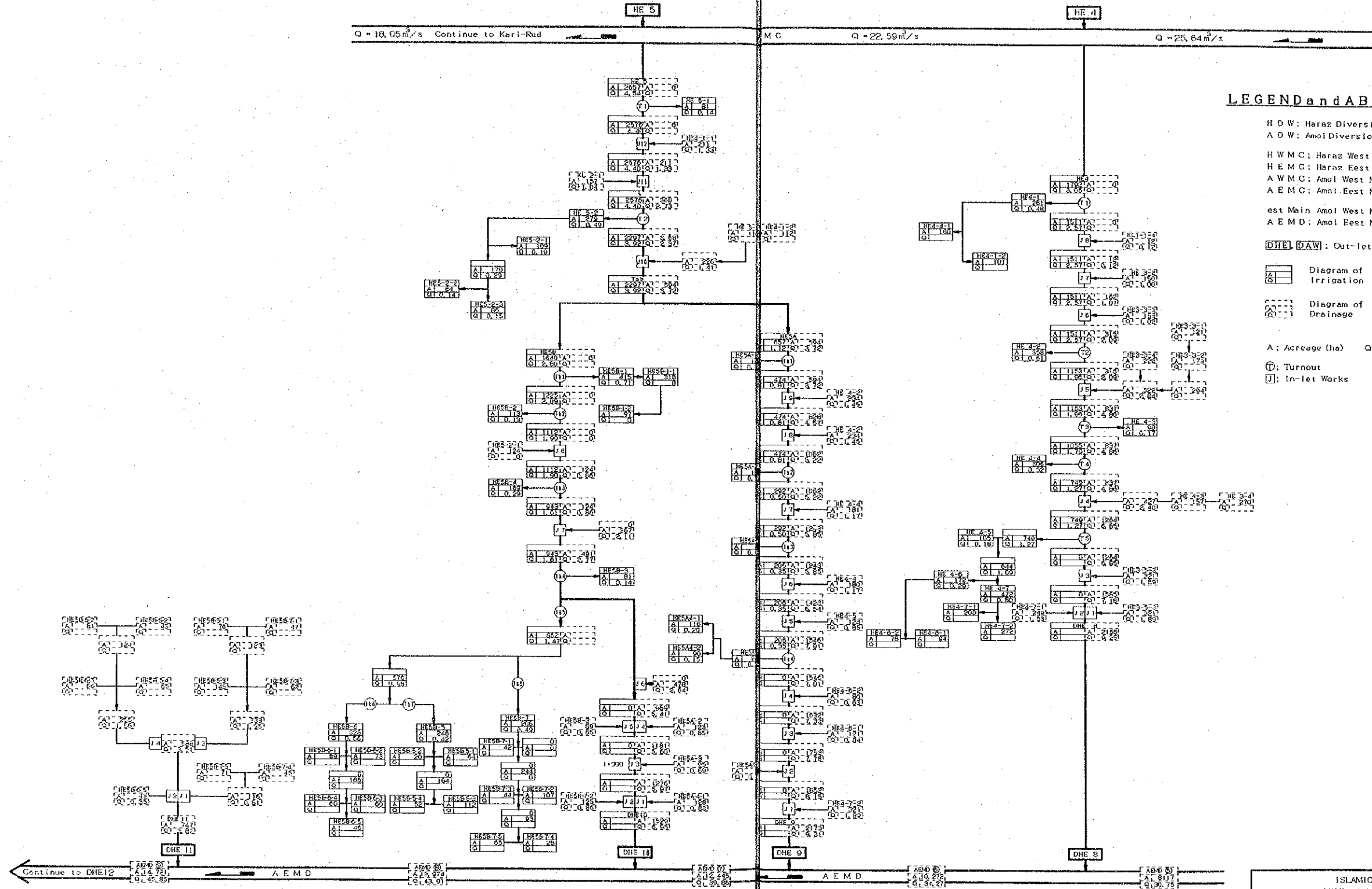
- Diagram of Irrigation
- Diagram of Drainage

A: Acreage (ha) Q: Discharge (m³/sec)

- Turnout
- In-let Works

ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MDA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE	
IRRIGATION: HE 1 - HE 3 (HE 1/3) DRAINAGE: DHE 1 - DHE 7	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 82 SD-2

SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
(HE4-HE5) (DHE8-DHE11)



LEGEND and ABBREVIATIONS

H D W : Haraz Diversion Weir
A D W : Amol Diversion Weir

H W M C : Haraz West Main Canal
H E M C : Haraz East Main Canal
A W M C : Amol West Main Canal
A E M C : Amol East Main Canal

est Main Amol West Main Drbmol
A E M D : Amol East Main Drainage

⊞ (HE, DAW) : Out-let of Drainage Canal

⊞ Diagram of Irrigation
⊞ Diagram of Drainage

A : Acreage (ha) Q : Discharge m³/sec





⊙ : Turnout

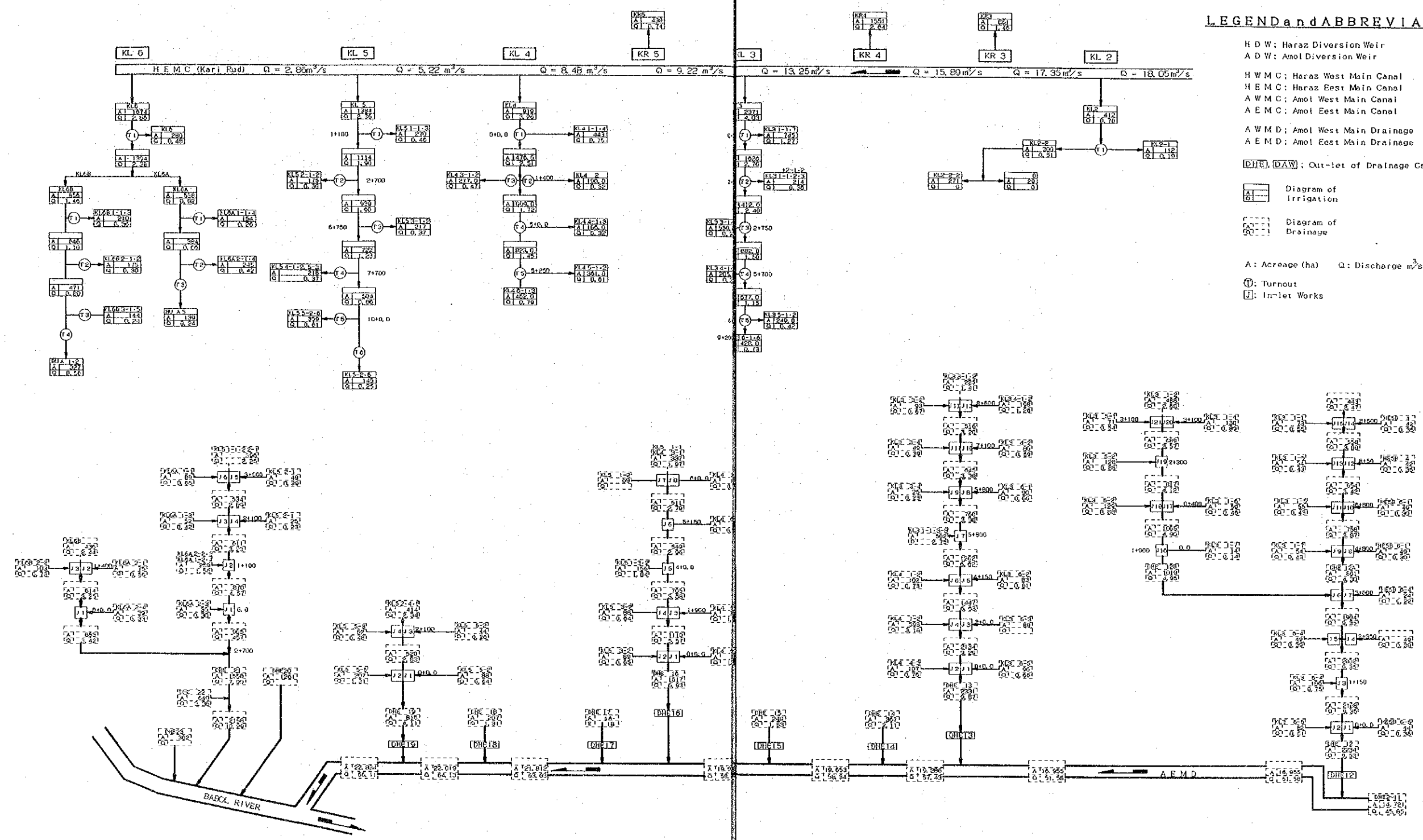
⊞ : In-let Works

ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MDA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE	
IRRIGATION ; HE 4-HE 5 (HE 2/3)	
DRAINAGE ; DHE 8-DHE 11	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 83 SD-3

SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
(KL2-KL6) (DHE12-DHE23)

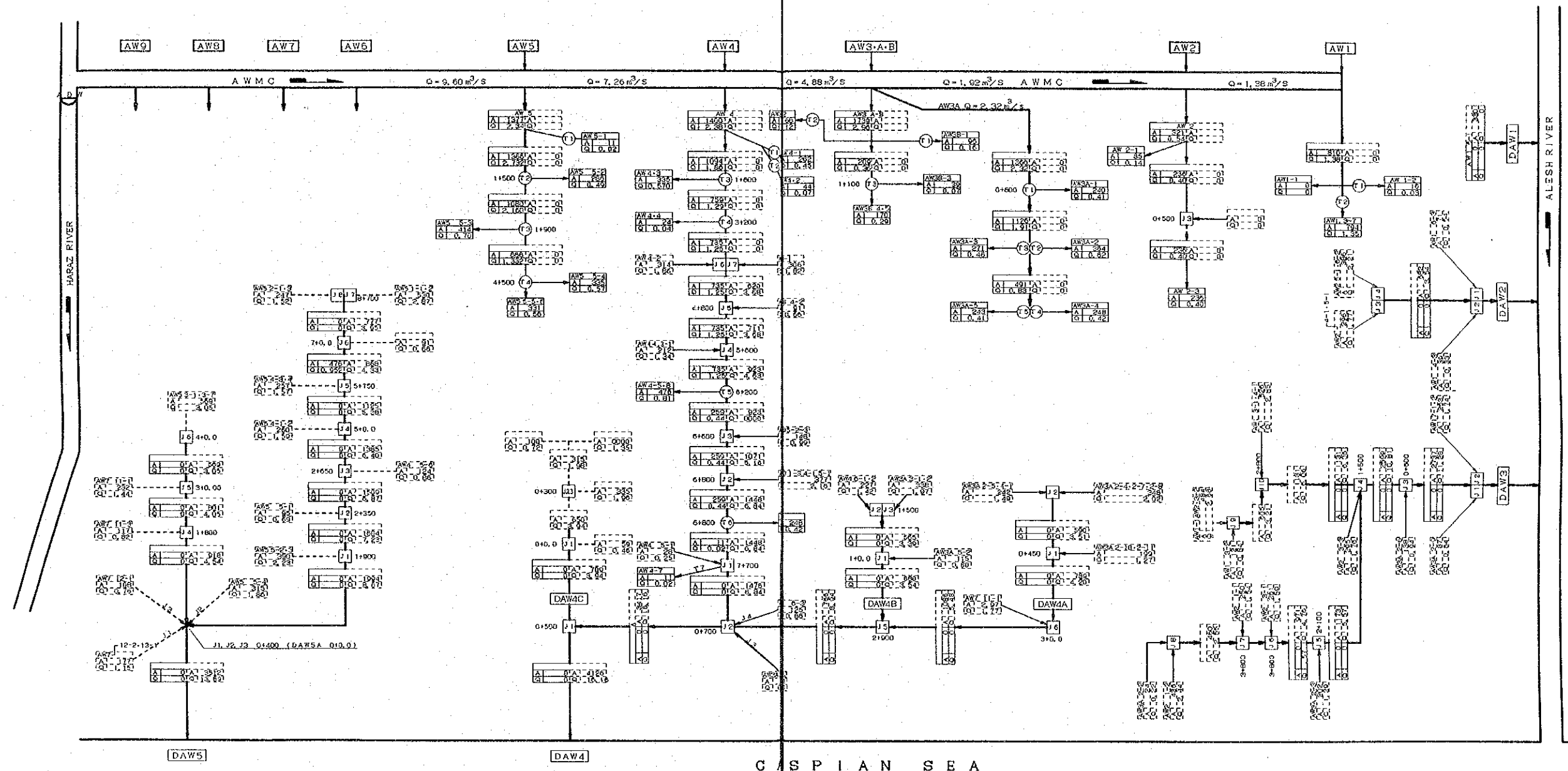
LEGEND and ABBREVIATIONS

- H D W: Haraz Diversion Weir
- A D W: Amol Diversion Weir
- H W M C: Haraz West Main Canal
- H E M C: Haraz East Main Canal
- A W M C: Amol West Main Canal
- A E M C: Amol East Main Canal
- A W M D: Amol West Main Drainage
- A E M D: Amol East Main Drainage
- DHE, DAW: Out-let of Drainage Canal
-  Diagram of Irrigation
-  Diagram of Drainage
- A: Acreage (ha) Q: Discharge (m³/sec)
-  Turnout
-  Inlet Works



ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE	
IRRIGATION: KL2-KL6 DRAINAGE: DHE 12-DHE 23 (HE 3/3)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. B4 5D-4

**SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
(AW1-AW5) (DAW1-DAW5)**



C A S P I A N S E A

LEGEND and ABBREVIATIONS

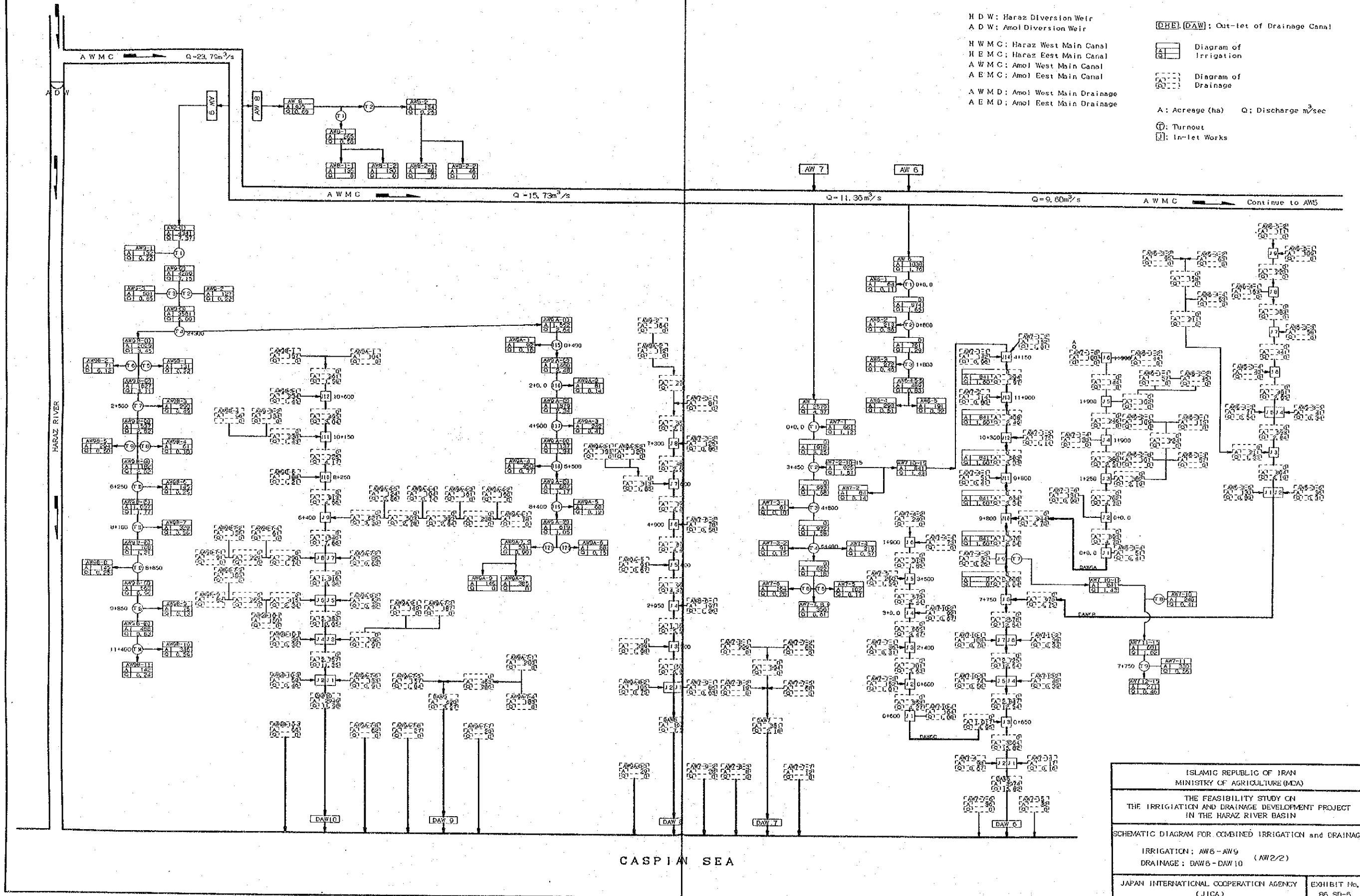
- | | | | |
|-----|-------------------------|-----|---------------------------|
| H | Haraz Diversion Weir | DHE | Out-let of Drainage Canal |
| A | Amol Diversion Weir | DAW | Out-let of Drainage Canal |
| HWC | Haraz West Main Canal | | Diagram of Irrigation |
| HEC | Haraz East Main Canal | | Diagram of Drainage |
| AWC | Amol West Main Canal | A | Acreeage (ha) |
| AEC | Amol East Main Canal | Q | Discharge m³/sec |
| AWC | Amol West Main Drainage | T | Turnout |
| AEC | Amol East Main Drainage | I | In-let Works |

ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE	
IRRIGATION: AW1-AW5 DRAINAGE: DAW1-DAW5 (AW1/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 85 SD-5

SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
(AW6-AW9) (DAW6-DAW10)

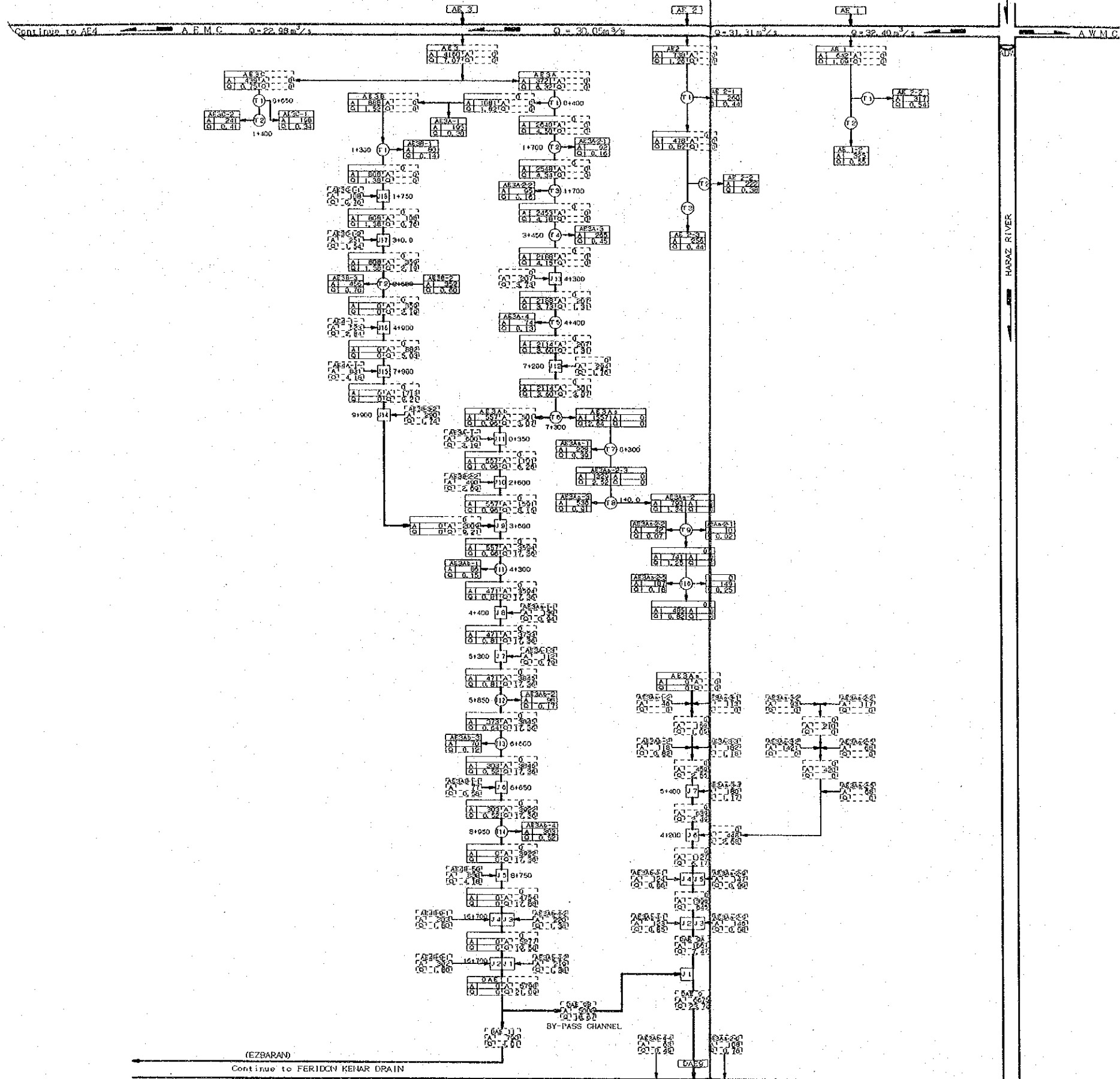
LEGEND and ABBREVIATIONS

- H D W : Haraz Diversion Weir
- A D W : Amol Diversion Weir
- H W M C : Haraz West Main Canal
- H E M C : Haraz East Main Canal
- A W M C : Amol West Main Canal
- A E M C : Amol East Main Canal
- A W M D : Amol West Main Drainage
- A E M D : Amol East Main Drainage
- (DHE), (DAW) : Out-let of Drainage Canal
- [Diagram of Irrigation]
- [Diagram of Drainage]
- A : Acreage (ha) Q : Discharge m³/s
- ⊖ : Turnout
- ⊞ : In-let Works



ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MDA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE	
IRRIGATION : AW6-AW9 (AW2/2)	
DRAINAGE : DAW6-DAW10 (AW2/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 85 SD-5

**SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
(AE1-AE3) (DAE9-DAE11)**

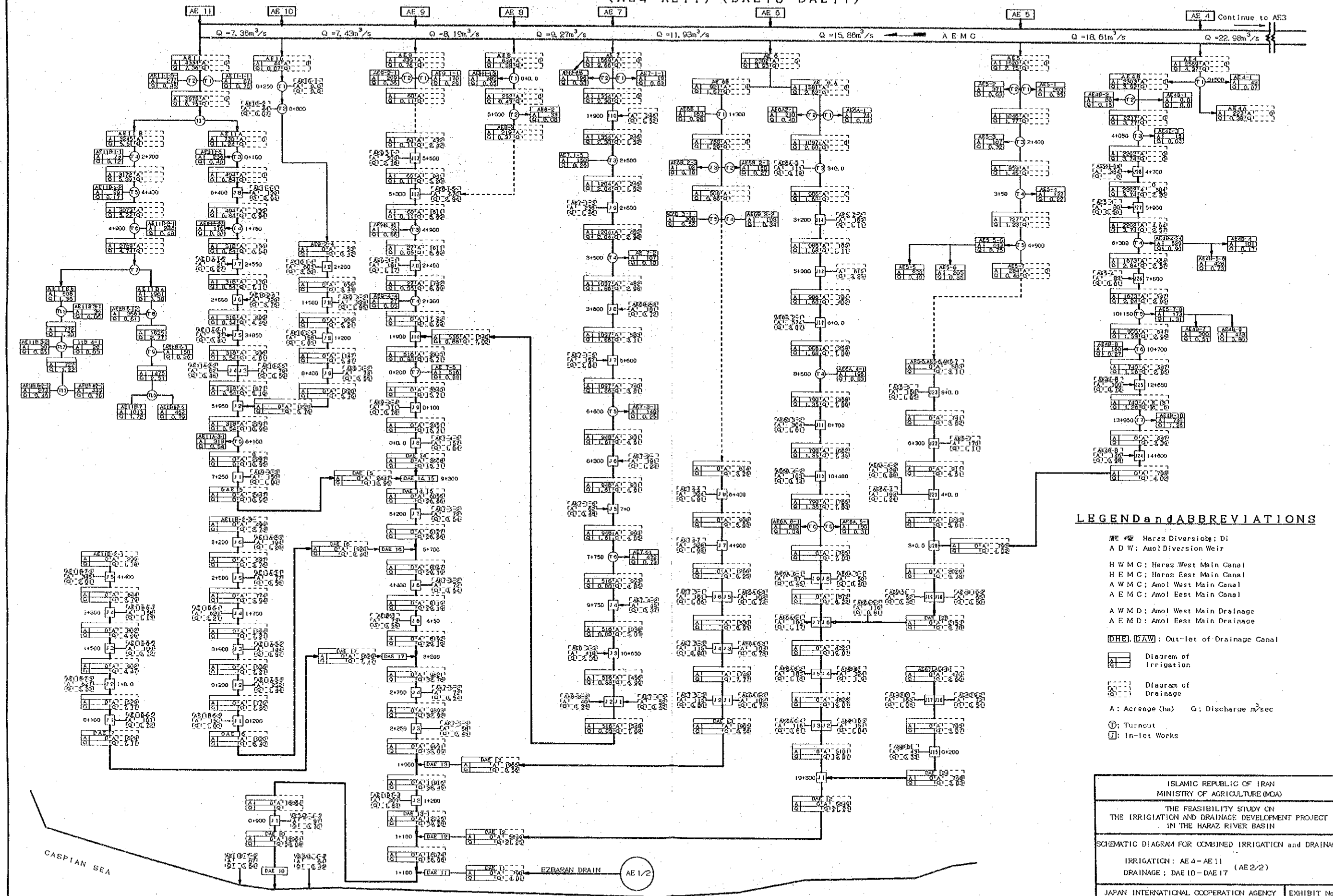


LEGEND and ABBREVIATIONS

- H D W: Haraz Diversion Weir
- A D W: Anol Diversion Weir
- H W M C: Haraz West Main Canal
- H E M C: Haraz East Main Canal
- A W M C: Anol West Main Canal
- A E M C: Anol East Main Canal
- A W M D: Anol West Main Drainage
- A E M D: Anol East Main Drainage
- (O.H.L. D.A.W.): Out-let of Drainage Canal
- Diagram of Irrigation
- Diagram of Drainage
- A: Acreage (ha) Q: Discharge m³/sec
- Turnout
- In-let Works

ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE (MOA)	
THE FEASIBILITY STUDY ON THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT IN THE HARAZ RIVER BASIN	
SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE	
IRRIGATION: AE1-AE3 (AE 1/2)	
DRAINAGE: DAE9-DAE11	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXHIBIT No. 87 SD-7

**SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
(AE4-AE11) (DAE10-DAE17)**



LEGEND and ABBREVIATIONS

- AE # : Harez Diversion; DI
- A D W : Anol Diversion Weir
- H W M C : Harez West Main Canal
- H E M C : Harez East Main Canal
- A W M C : Anol West Main Canal
- A E M C : Anol East Main Canal
- A W M D : Anol West Main Drainage
- A E M D : Anol East Main Drainage
- (DHE), (DAW) : Out-let of Drainage Canal
- : Diagram of Irrigation
- : Diagram of Drainage
- A : Acreage (ha) Q : Discharge m^3/sec
- : Turnout
- : In-let Works

ISLAMIC REPUBLIC OF IRAN
MINISTRY OF AGRICULTURE (MOA)

THE FEASIBILITY STUDY ON
THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT
IN THE HARAZ RIVER BASIN

SCHEMATIC DIAGRAM FOR COMBINED IRRIGATION and DRAINAGE
IRRIGATION : AE 4-AE 11
DRAINAGE : DAE 10-DAE 17 (AE 2/2)

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) EXHIBIT No. 88 SD-8

JICA