

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA  
MINISTRY OF LANDS, IRRIGATION AND MAHAWELI DEVELOPMENT

FEASIBILITY STUDY  
ON  
WALAWE IRRIGATION  
UPGRADING AND EXTENSION PROJECT

VOLUME IV

**DRAWINGS**

JANUARY, 1993

JAPAN INTERNATIONAL COOPERATION AGENCY

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MINISTRY OF LANDS, IRRIGATION AND MAHAWELI DEVELOPMENT

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**JANUARY, 1993**

**JAPAN INTERNATIONAL COOPERATION AGENCY**

LIST OF DRAWINGS

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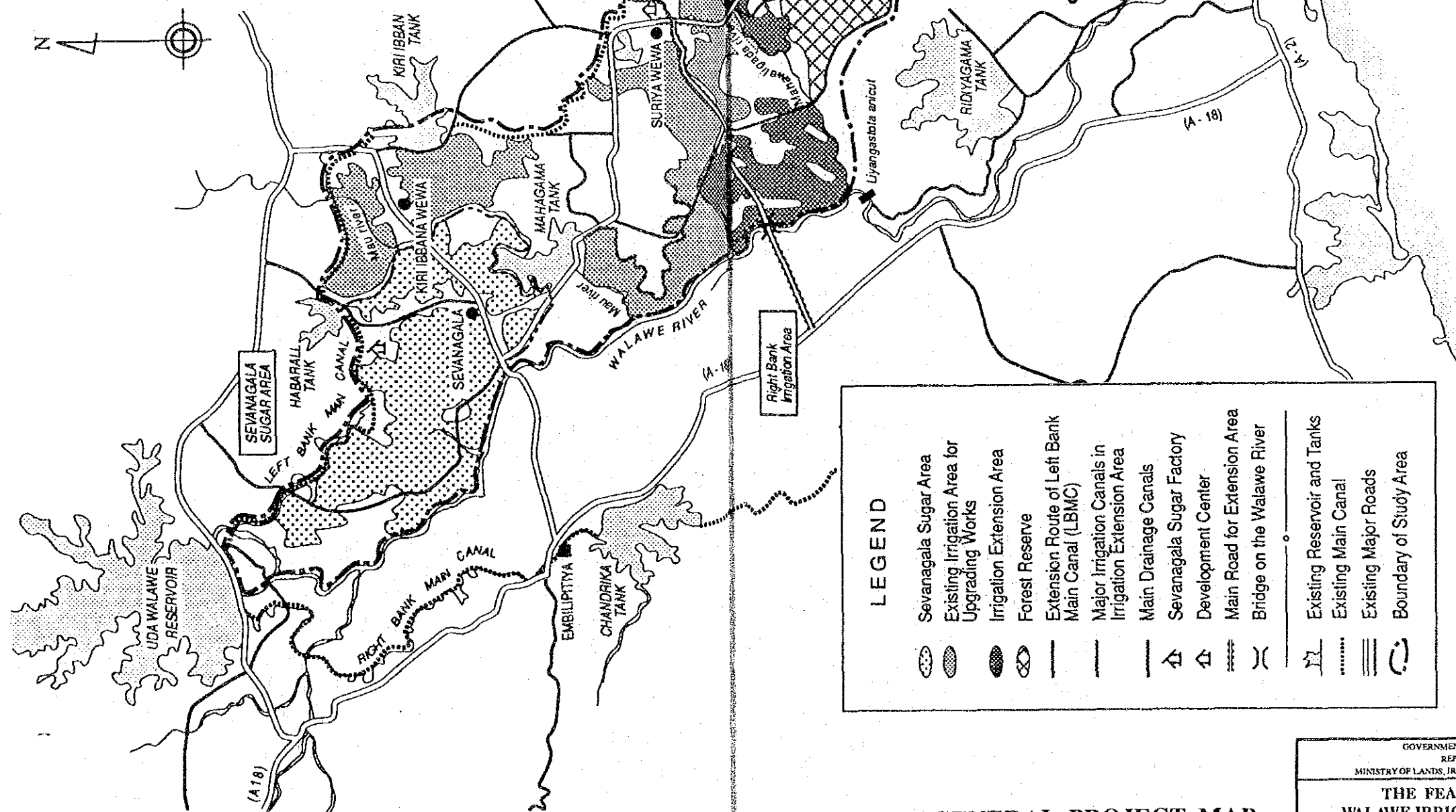
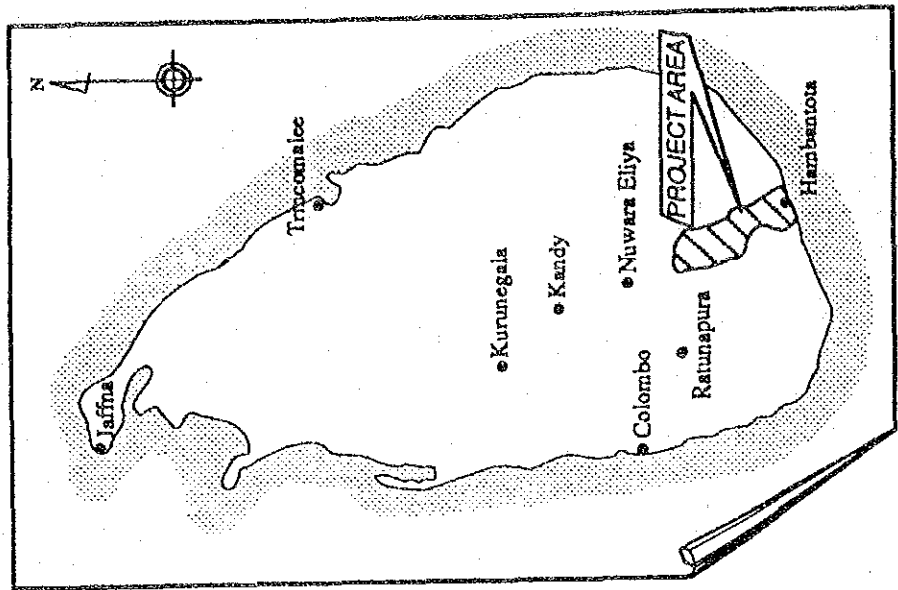
NO.	DWG NO	TITLE
1.	DWG-1	GENERAL PROJECT MAP
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NO.	DWG NO	TITLE
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24.	DWG-14	MAIN FEATURES OF PROPOSED BRIDGE ON THE WALAWE RIVER
25.	DWG-15	LAYOUT PLAN OF PROPOSED DEVELOPMENT CENTER

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**LEGEND**

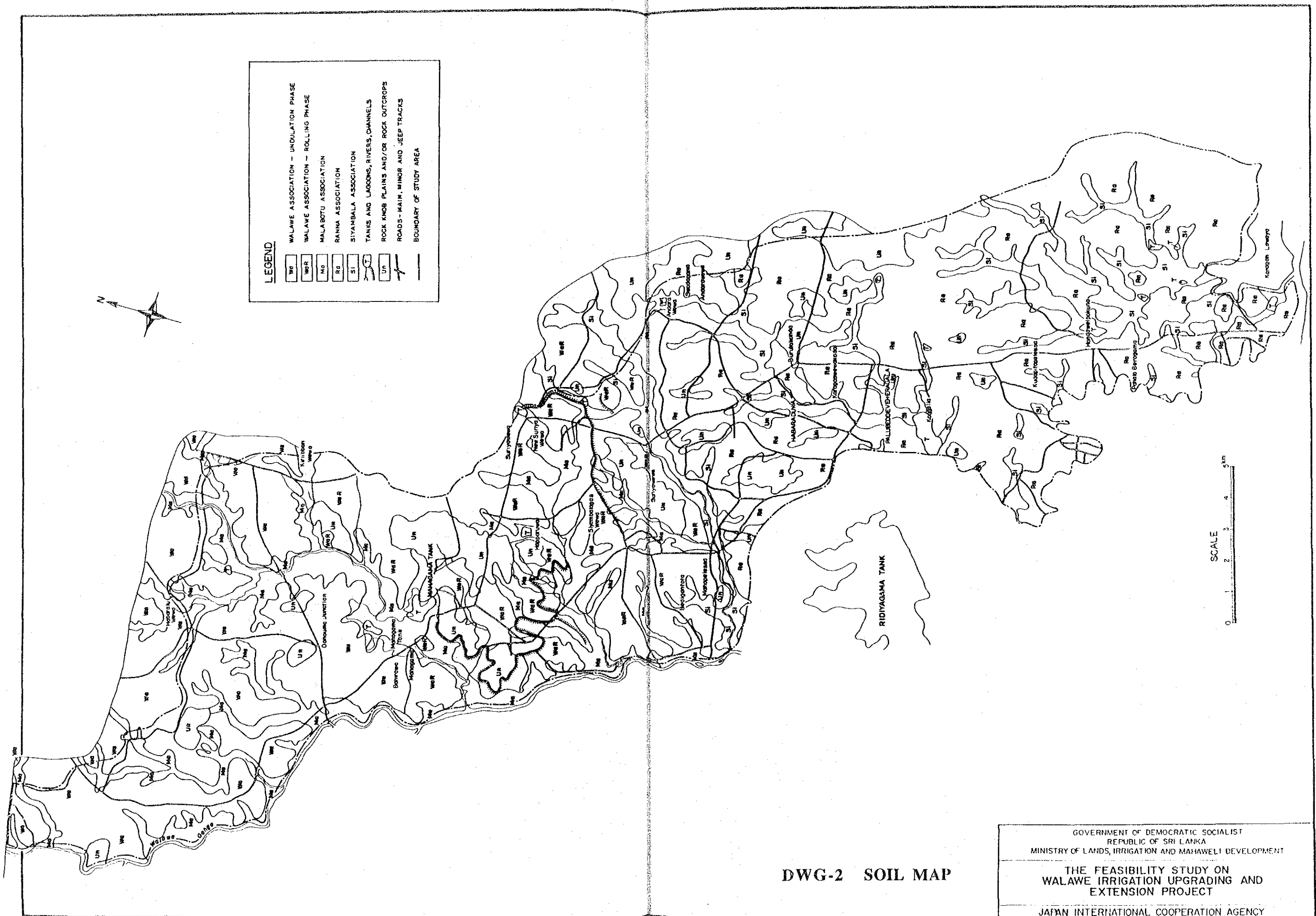
	Sevanagala Sugar Area
	Existing Irrigation Area for Upgrading Works
	Irrigation Extension Area
	Forest Reserve
	Extension Route of Left Bank Main Canal (LBMC)
	Major Irrigation Canals in Irrigation Extension Area
	Main Drainage Canals
	Sevanagala Sugar Factory
	Development Center
	Main Road for Extension Area
	Bridge on the Walawe River
	Existing Reservoir and Tanks
	Existing Main Canal
	Existing Major Roads
	Boundary of Study Area

DWG-1 GENERAL PROJECT MAP

GOVERNMENT OF DEMOCRATIC SOCIALIST  
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**THE FEASIBILITY STUDY ON  
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**LEGEND**

- Wp WALAWE ASSOCIATION - UNDULATION PHASE
- WpR WALAWE ASSOCIATION - ROLLING PHASE
- Mq MALABOTU ASSOCIATION
- Rd RANNA ASSOCIATION
- Si SIYAMBALA ASSOCIATION
- Un TANKS AND LAGOONS, RIVERS, CHANNELS
- Re ROCK KNOB PLAINS AND/OR ROCK OUTCROPS
- ROADS - MAIN, MINOR AND JEEP TRACKS
- BOUNDARY OF STUDY AREA

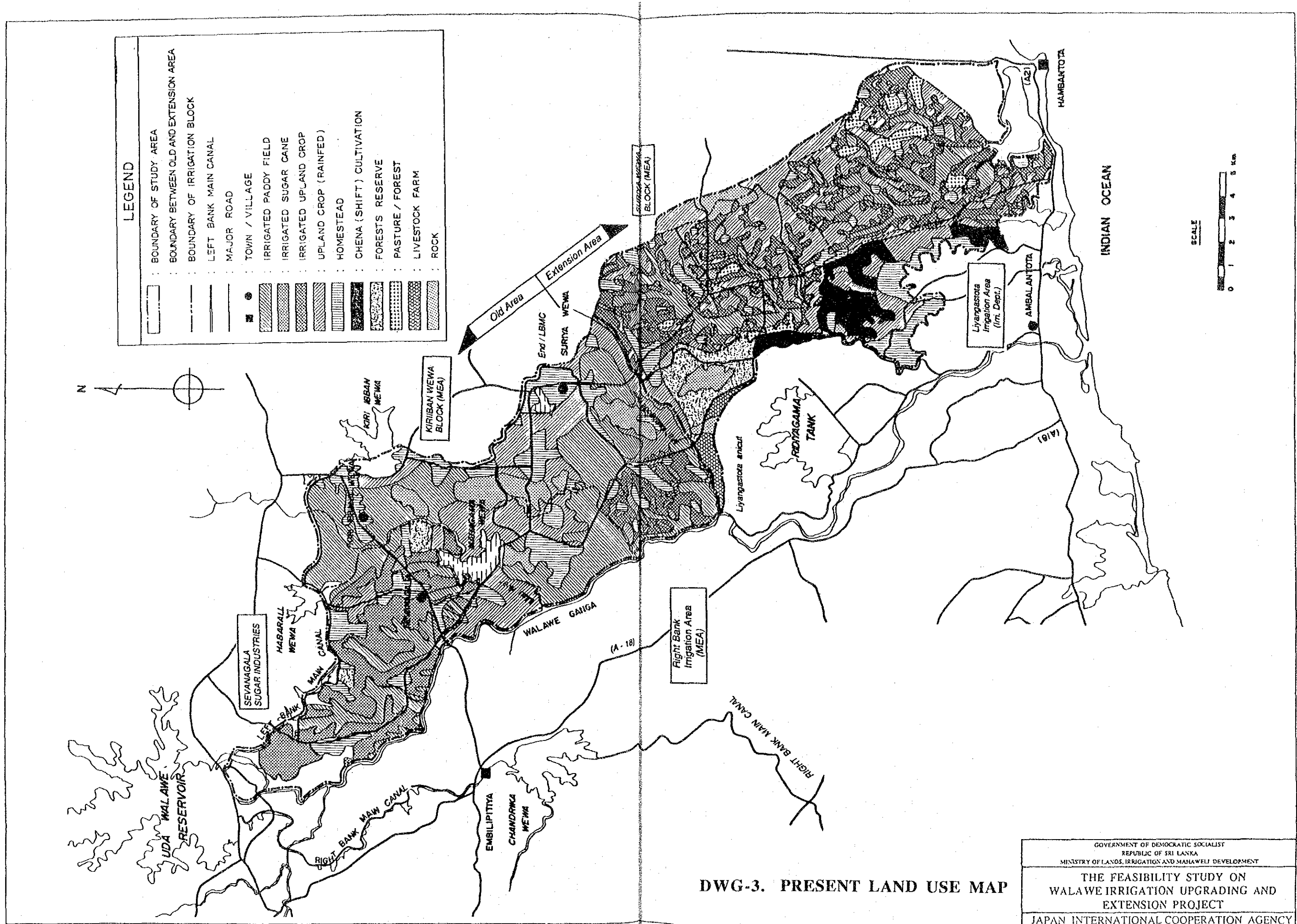
**DWG-2 SOIL MAP**

GOVERNMENT OF DEMOCRATIC SOCIALIST  
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**LEGEND**

[Solid line]	BOUNDARY OF STUDY AREA
[Dashed line]	BOUNDARY BETWEEN OLD AND EXTENSION AREA
[Dotted line]	BOUNDARY OF IRRIGATION BLOCK
[Double line]	LEFT BANK MAIN CANAL
[Single line]	MAJOR ROAD
[Circle with dot]	TOWN / VILLAGE
[Diagonal lines /]	IRRIGATED PADDY FIELD
[Diagonal lines \]	IRRIGATED SUGAR CANE
[Cross-hatch]	IRRIGATED UPLAND CROP
[Vertical lines]	UPLAND CROP (RAINFED)
[Horizontal lines]	HOMESTEAD
[Stippled]	CHENA (SHIFT) CULTIVATION
[Dotted]	FOREST'S RESERVE
[Cross-hatch]	PASTURE / FOREST
[Diagonal lines /]	LIVESTOCK FARM
[Stippled]	ROCK

DWG-3. PRESENT LAND USE MAP

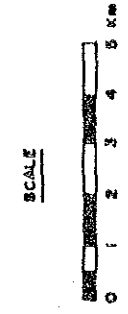
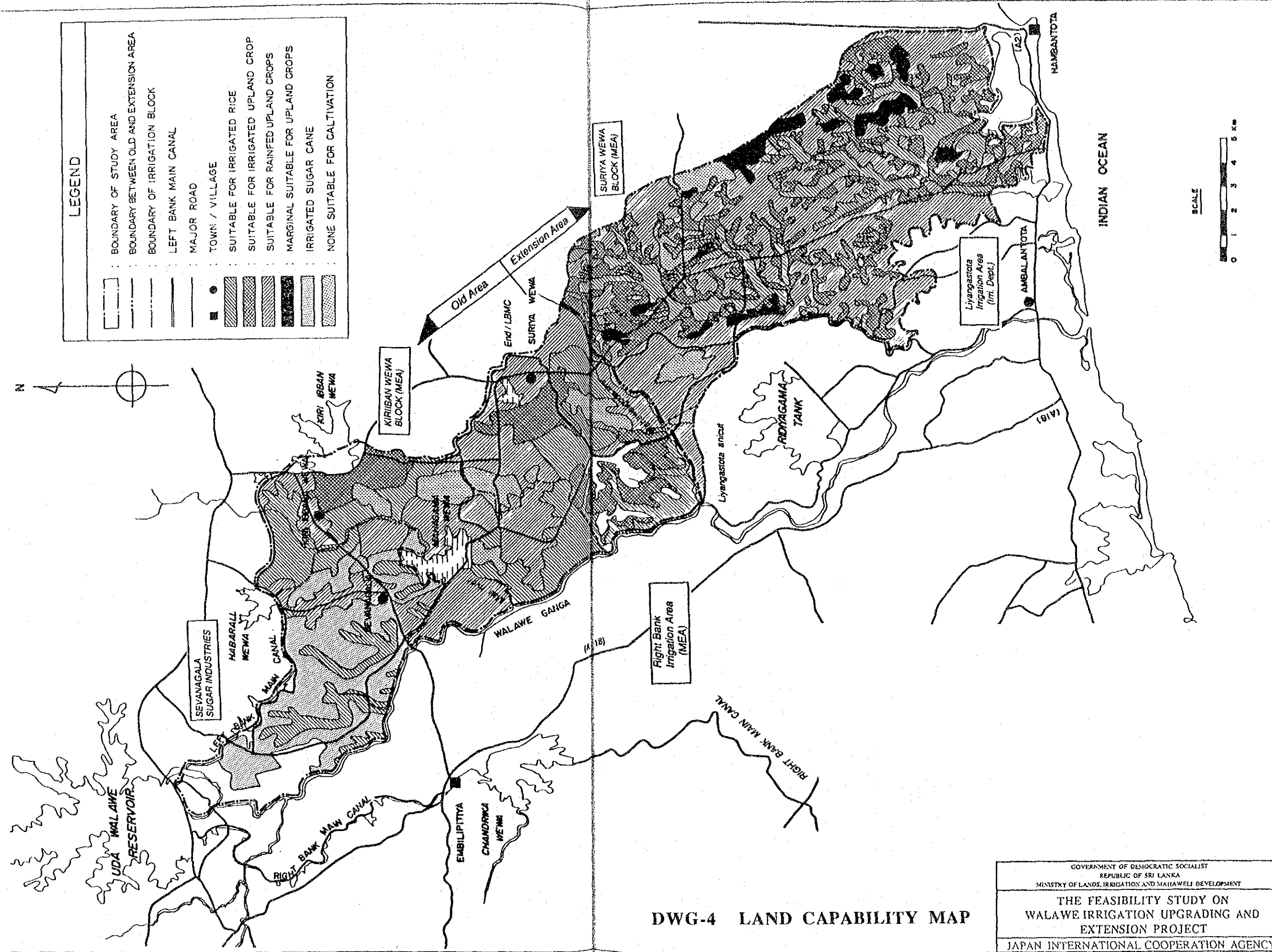
GOVERNMENT OF DEMOCRATIC SOCIALIST  
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LEGEND	
	BOUNDARY OF STUDY AREA
	BOUNDARY BETWEEN OLD AND EXTENSION AREA
	BOUNDARY OF IRRIGATION BLOCK
	LEFT BANK MAIN CANAL
	MAJOR ROAD
	TOWN / VILLAGE
	SUITABLE FOR IRRIGATED RICE
	SUITABLE FOR IRRIGATED UPLAND CROP
	SUITABLE FOR RAINFED UPLAND CROPS
	MARGINAL SUITABLE FOR UPLAND CROPS
	IRRIGATED SUGAR CANE
	NONE SUITABLE FOR CULTIVATION



DWG-4 LAND CAPABILITY MAP

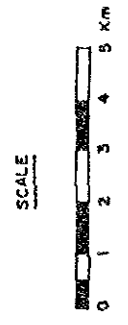
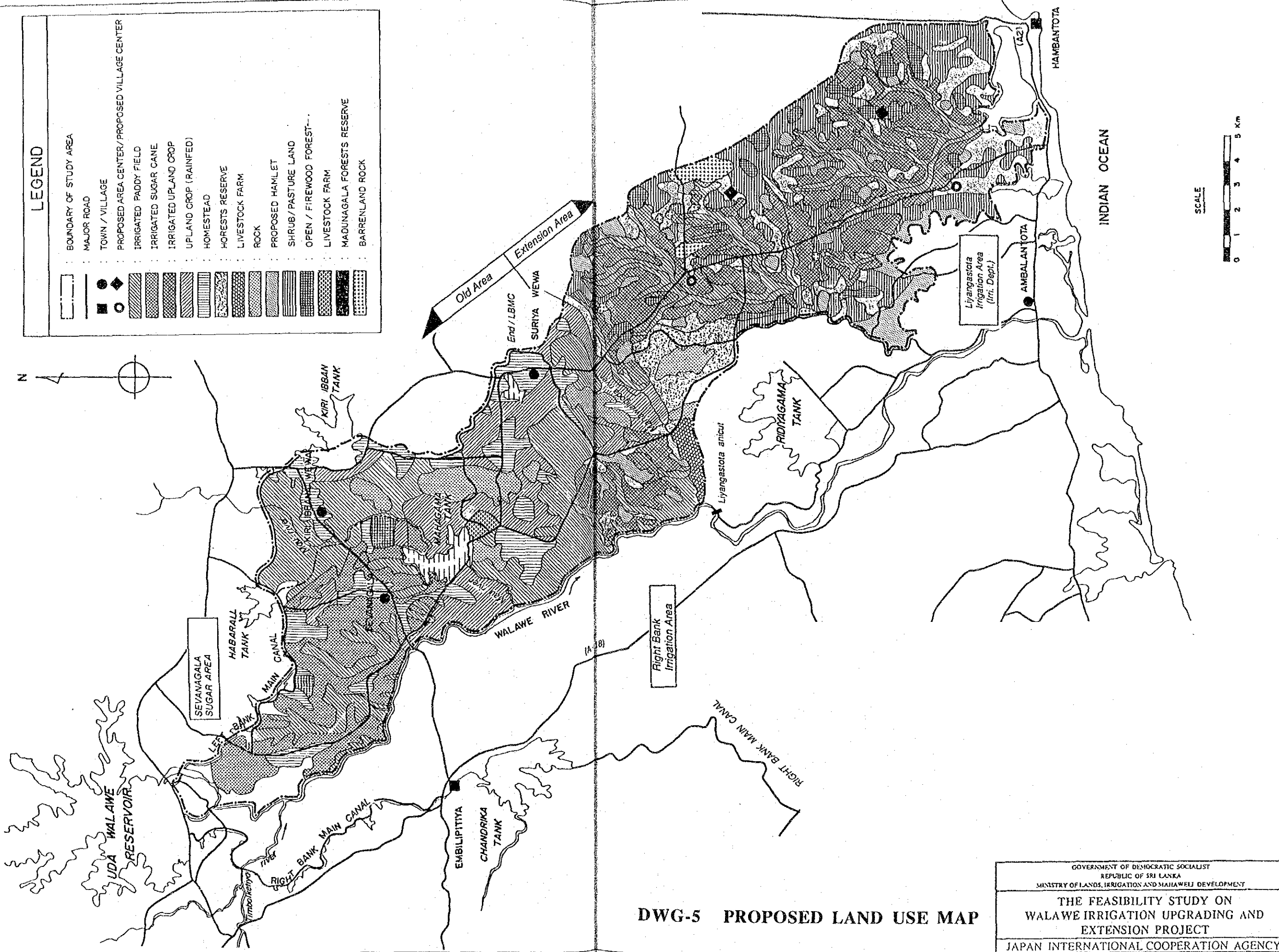
GOVERNMENT OF DEMOCRATIC SOCIALIST  
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THE FEASIBILITY STUDY ON  
 WALAWE IRRIGATION UPGRADING AND  
 EXTENSION PROJECT

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**LEGEND**

- BOUNDARY OF STUDY AREA
- MAJOR ROAD
- TOWN / VILLAGE
- PROPOSED AREA CENTER / PROPOSED VILLAGE CENTER
- IRRIGATED PADDY FIELD
- IRRIGATED SUGAR CANE
- IRRIGATED UPLAND CROP
- UPLAND CROP (RAINFED)
- HOMESTEAD
- HORESTS RESERVE
- LIVESTOCK FARM
- ROCK
- PROPOSED HAMLET
- SHRUB / PASTURE LAND
- OPEN / FIREWOOD FOREST
- LIVESTOCK FARM
- MADUNAGALA FORESTS RESERVE
- BARREN/LAND ROCK

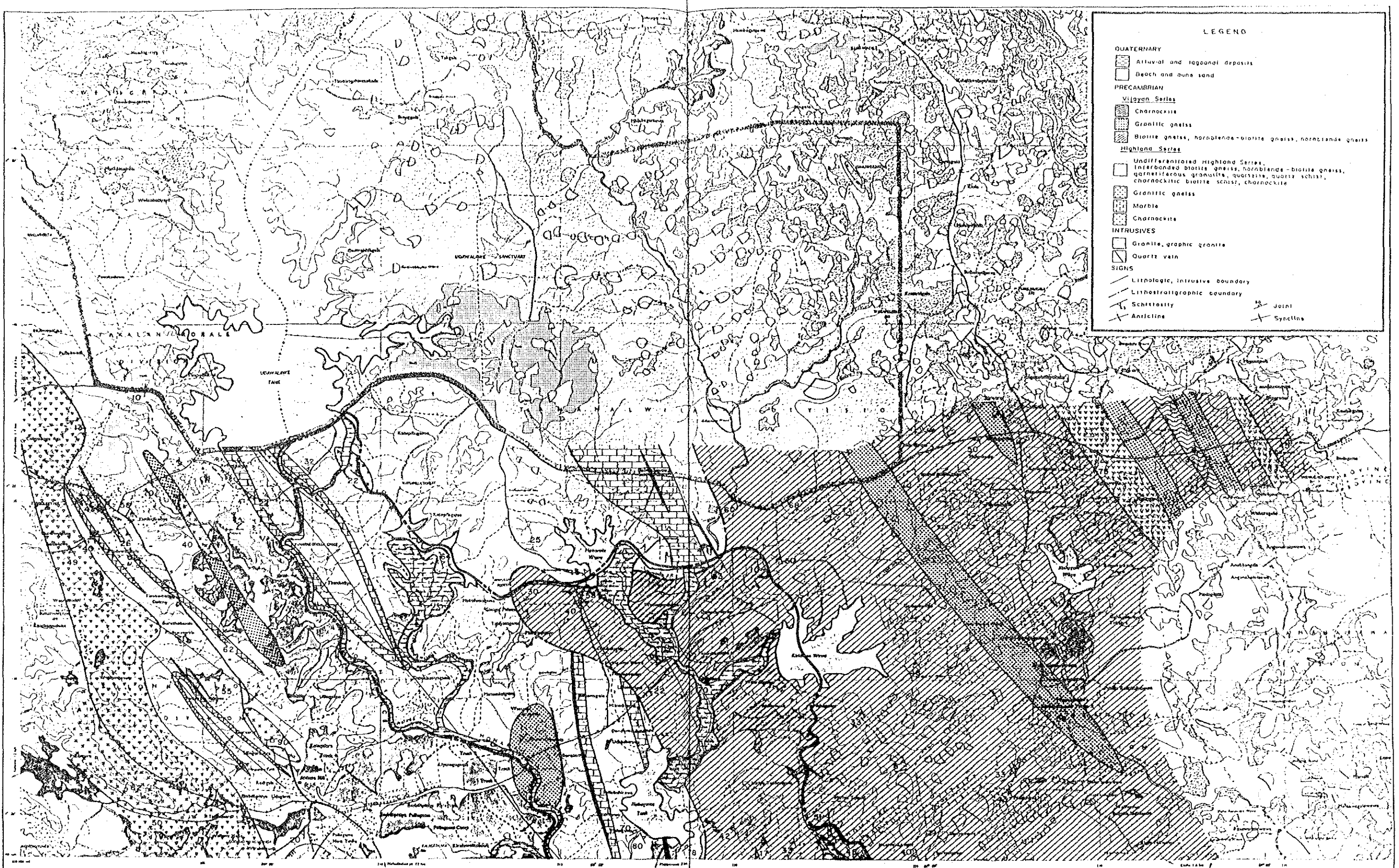


**DWG-5 PROPOSED LAND USE MAP**

GOVERNMENT OF DEMOCRATIC SOCIALIST  
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**THE FEASIBILITY STUDY ON  
 WALAWE IRRIGATION UPGRADING AND  
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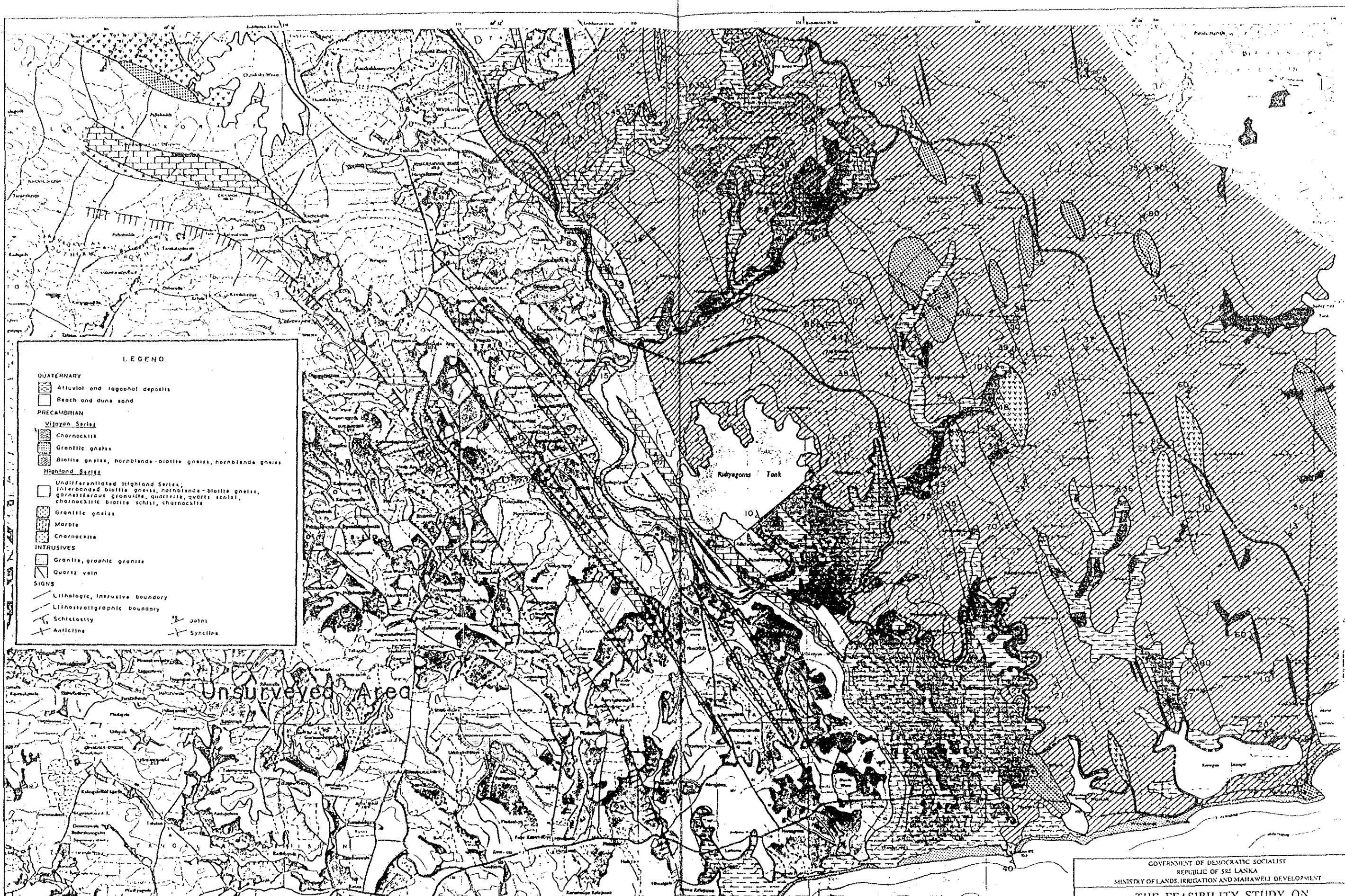


DWG-6 GEOLOGICAL MAP (1/2)

GOVERNMENT OF DEMOCRATIC SOCIALIST  
 REPUBLIC OF SRI LANKA  
 MINISTRY OF LANDS, IRRIGATION AND MAHAWEJ DEVELOPMENT

THE FEASIBILITY STUDY ON  
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**LEGEND**

**QUATERNARY**

- Alluvial and lagoonal deposits
- Beach and duna sand

**PRECAMBRIAN**

**Vijayan Series**

- Charnockite
- Granitic gneiss
- Biotite gneiss, hornblende-biotite gneiss, hornblende gneiss

**Highland Series**

- Undifferentiated Highland Series, interbedded biotite gneiss, hornblende-biotite gneiss, garnetiferous granodiorite, quartzite, quartz schist, charnockitic biotite schist, charnockite
- Granitic gneiss
- Marble
- Charnockite

**INTRUSIVES**

- Granite, graphic granite
- Quartz vein

**SIGNS**

- Lithologic, intrusive boundary
- Lithostratigraphic boundary
- Schistosity
- Anticline
- Joint
- Syncline

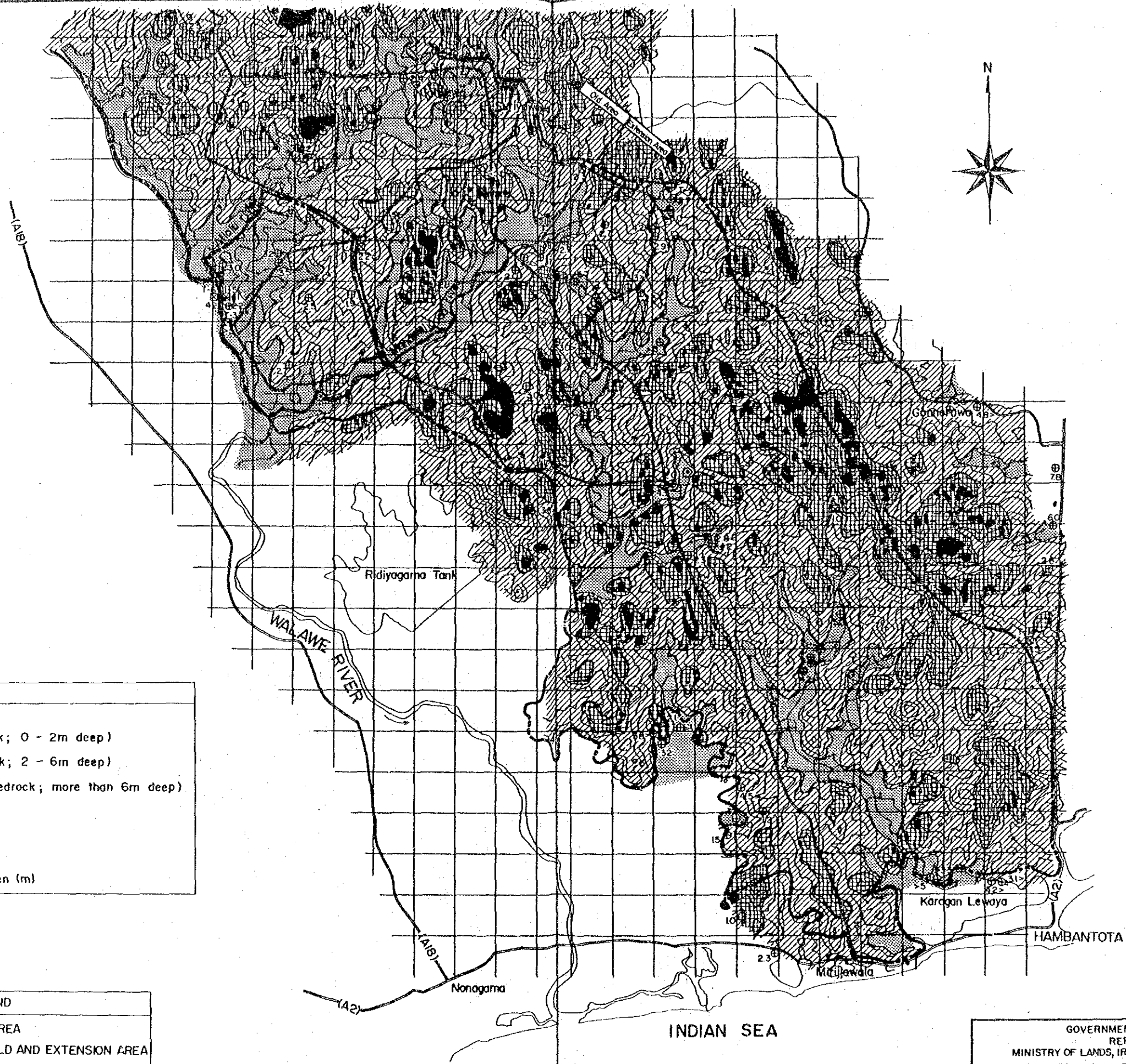
Unsurveyed Area

DWG-6 GEOLOGICAL MAP (2/2)








GOVERNMENT OF DEMOCRATIC SOCIALIST  
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LEGEND

-  0 - 1m (hard bedrock; 0 - 2m deep)
-  1 - 3m (hard bedrock; 2 - 6m deep)
-  More than 3m (hard bedrock; more than 6m deep)
-  Exposures of rocks
-  Deep Test Pits
-  Water wells
-  Thickness of overburden (m)

GENERAL LEGEND

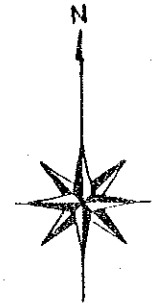
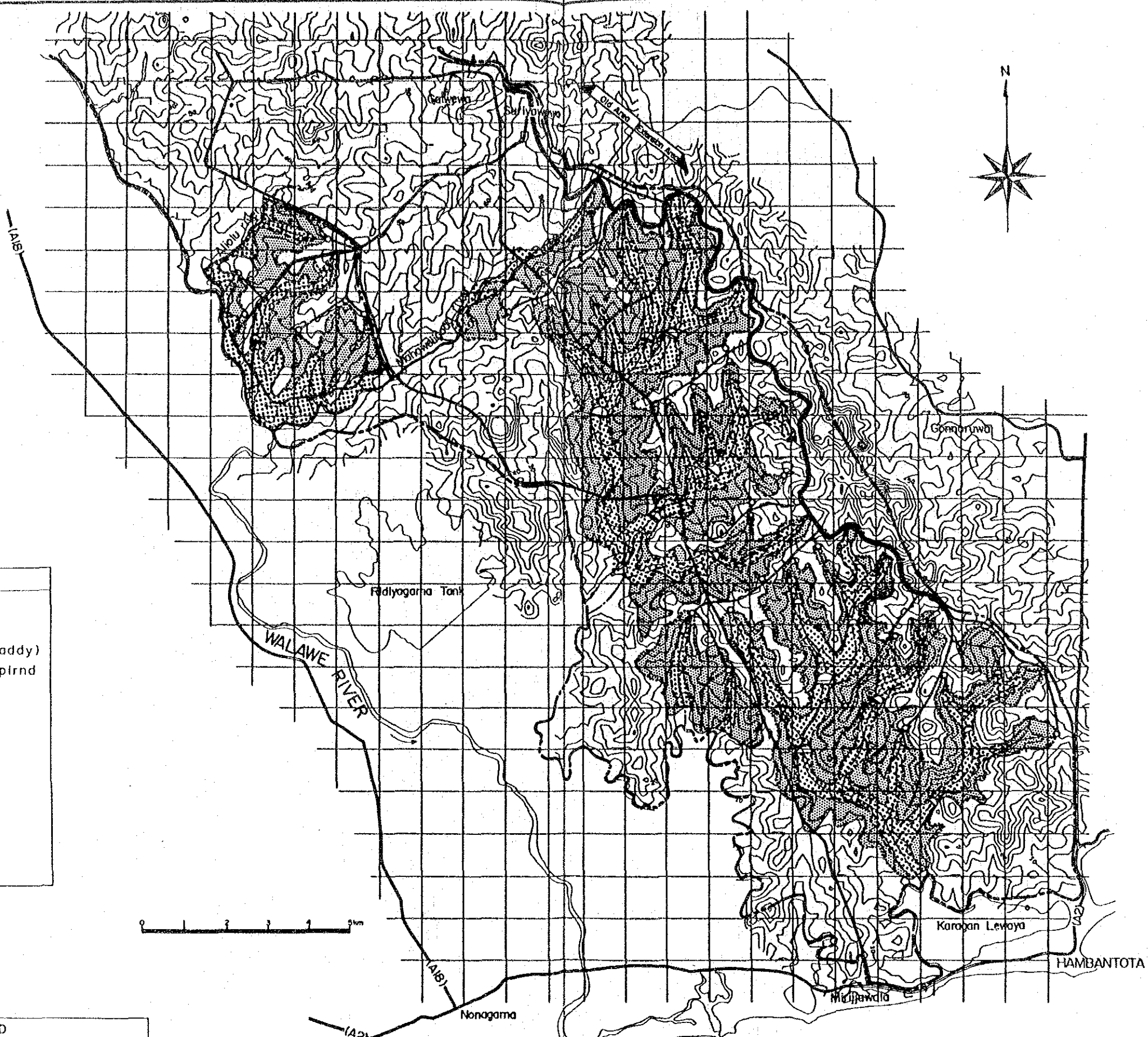
-  BOUNDARY OF STUDY AREA
-  BOUNDARY BETWEEN OLD AND EXTENSION AREA
-  RIVER/STREAM
-  MAJOR ROAD
-  TANK

DWG-7 THICKNESS OF OVERBURDEN

GOVERNMENT OF DEMOCRATIC SOCIALIST  
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Specific legend	
	Main Canal
	Branch Canal
	Distributary (Paddy)
	Distributary Upland
	Repair Tank
	Lower Tank
	Higher Tank
	Drain
	Upland crop field
	Paddy fields



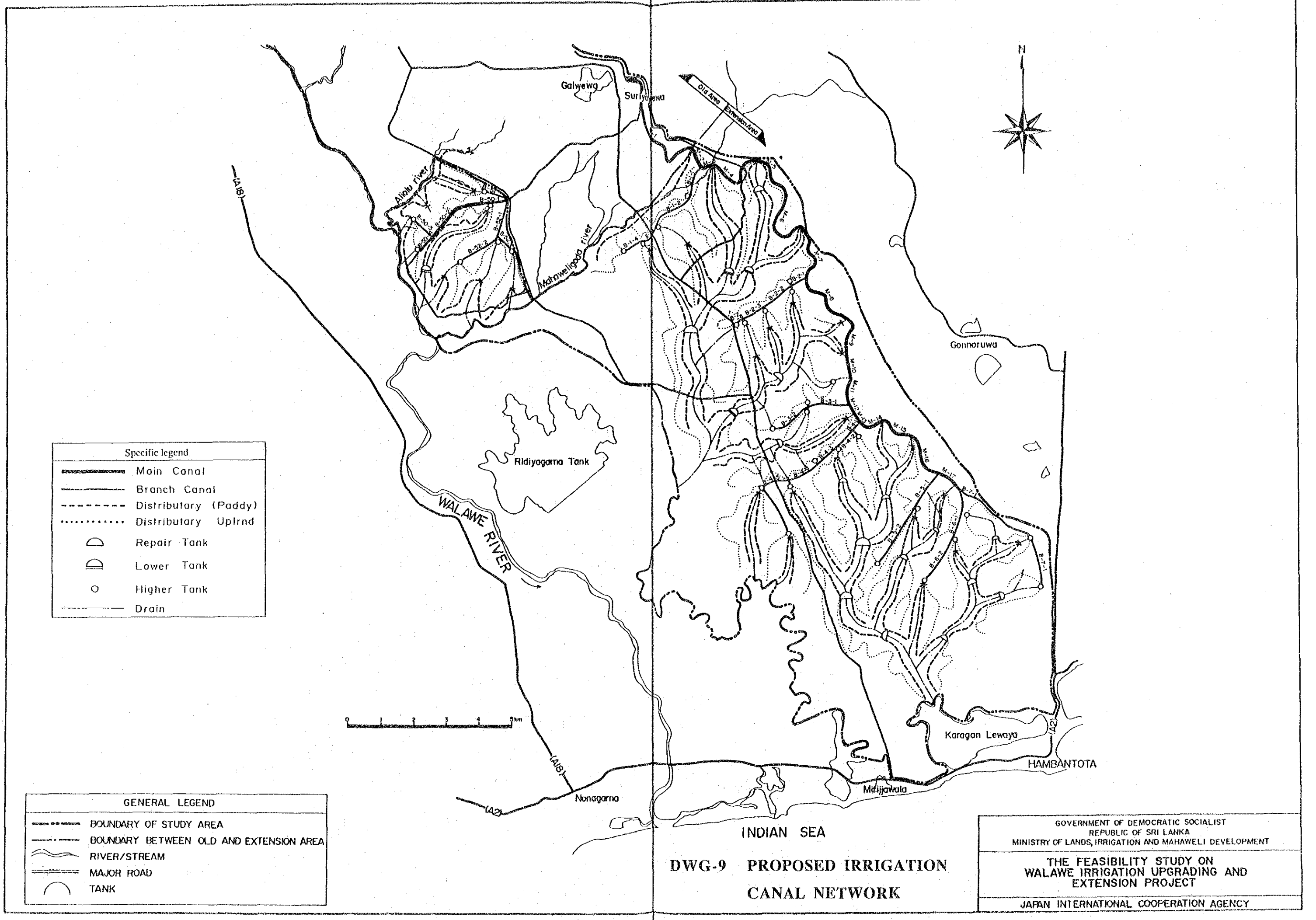
GENERAL LEGEND	
	BOUNDARY OF STUDY AREA
	BOUNDARY BETWEEN OLD AND EXTENSION AREA
	RIVER/STREAM
	MAJOR ROAD
	TANK

**DWG-8 PROPOSED IRRIGATION  
EXTENSION AREA**

GOVERNMENT OF DEMOCRATIC SOCIALIST  
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WALAWE IRRIGATION UPGRADING AND  
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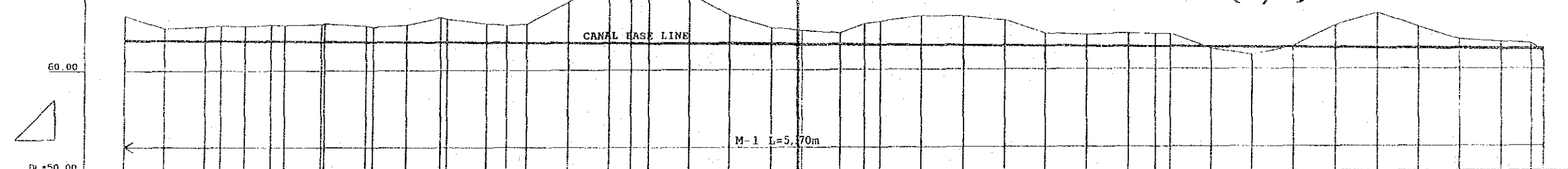
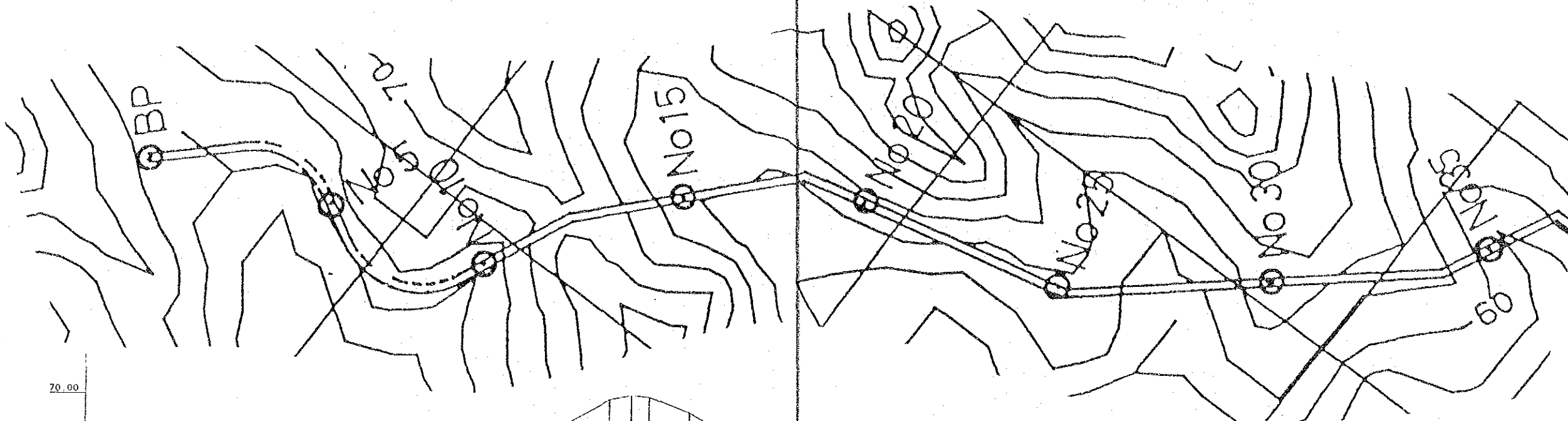
Specific legend	
	Main Canal
	Branch Canal
	Distributary (Paddy)
	Distributary Uplnd
	Repair Tank
	Lower Tank
	Higher Tank
	Drain

GENERAL LEGEND	
	BOUNDARY OF STUDY AREA
	BOUNDARY BETWEEN OLD AND EXTENSION AREA
	RIVER/STREAM
	MAJOR ROAD
	TANK

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 THE FEASIBILITY STUDY ON  
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 JAPAN INTERNATIONAL COOPERATION AGENCY

DWG-9 PROPOSED IRRIGATION  
 CANAL NETWORK





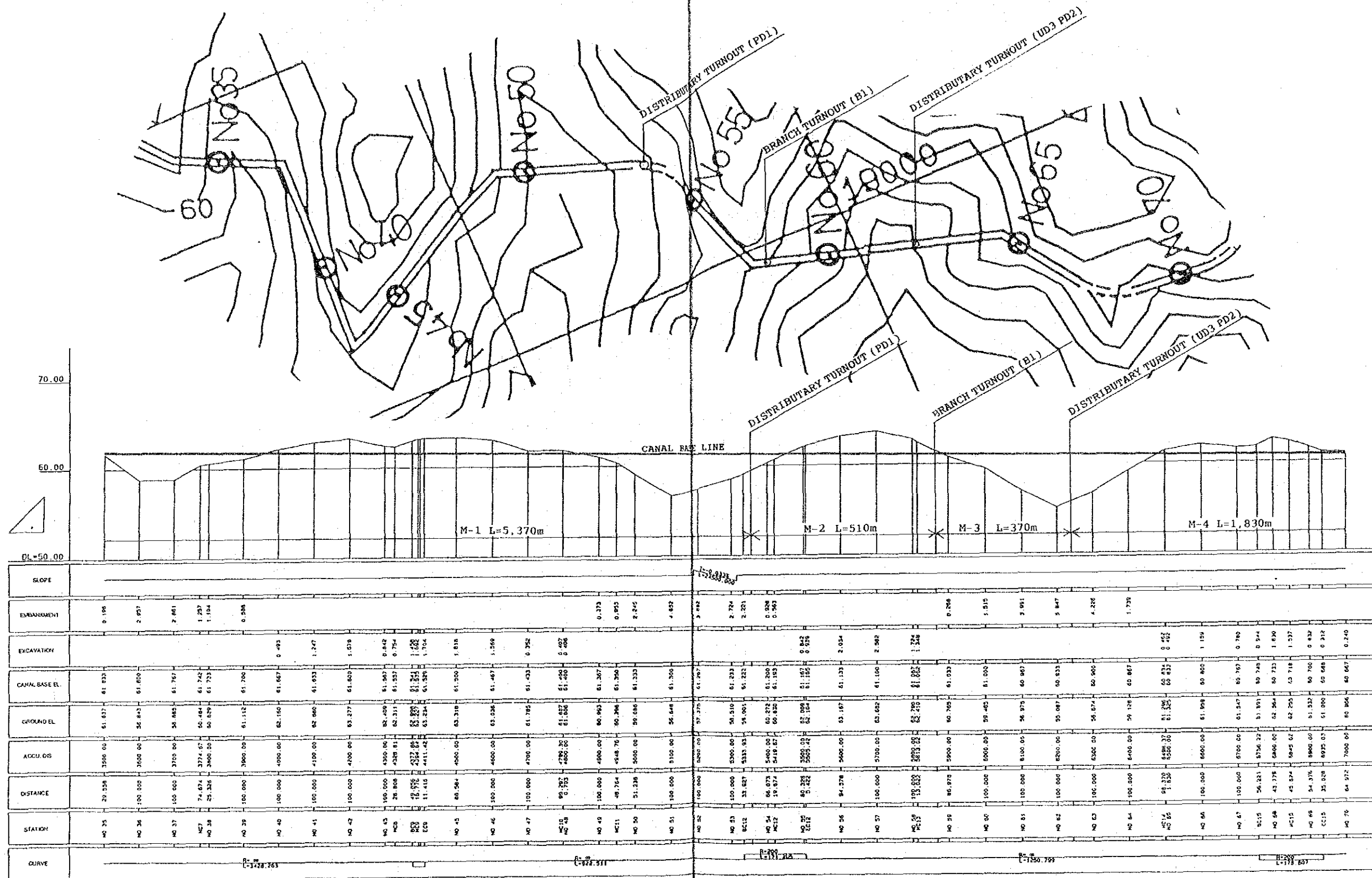
CURVE	STATION	DISTANCE	ACQY DIS	GROUND EL.	CANAL BASE EL.	EXCAVATION	EMBANKMENT	SLOPE
	No 0	0.000	0.00	65.475	61.000	2.475		
	No 1	100.000	100.00	64.100	62.967	1.216		
	No 2	200.000	200.00	64.374	62.832	1.441		
	No 3	300.000	300.00	64.461	62.928	1.541		
	No 4	400.000	400.00	64.410	62.800	1.610		
	No 5	500.000	500.00	64.513	62.876	1.637		
	No 6	600.000	600.00	64.468	62.867	1.601		
	No 7	700.000	700.00	64.505	62.855	1.650		
	No 8	800.000	800.00	64.409	62.800	1.609		
	No 9	900.000	900.00	64.276	62.794	1.476		
	No 10	1000.000	1000.00	64.490	62.767	1.723		
	No 11	1100.000	1100.00	65.345	62.738	2.607		
	No 12	1200.000	1200.00	65.071	62.733	2.338		
	No 13	1300.000	1300.00	64.951	62.700	2.251		
	No 14	1400.000	1400.00	64.427	62.683	1.743		
	No 15	1500.000	1500.00	64.543	62.687	1.856		
	No 16	1600.000	1600.00	65.765	62.633	3.132		
	No 17	1700.000	1700.00	65.027	62.600	2.427		
	No 18	1800.000	1800.00	65.444	62.582	2.862		
	No 19	1900.000	1900.00	65.278	62.597	2.673		
	No 20	2000.000	2000.00	67.088	62.533	4.555		
	No 21	2100.000	2100.00	65.377	62.500	2.877		
	No 22	2200.000	2200.00	64.128	62.487	1.641		
	No 23	2300.000	2300.00	63.582	62.490	1.092		
	No 24	2400.000	2400.00	64.507	62.380	2.127		
	No 25	2500.000	2500.00	64.727	62.397	2.330		
	No 26	2600.000	2600.00	65.271	62.337	2.934		
	No 27	2700.000	2700.00	65.229	62.300	2.929		
	No 28	2800.000	2800.00	64.834	62.357	2.477		
	No 29	2900.000	2900.00	63.497	62.233	1.264		
	No 30	3000.000	3000.00	63.362	62.200	1.162		
	No 31	3100.000	3100.00	63.482	62.187	1.295		
	No 32	3200.000	3200.00	63.427	62.145	1.282		
	No 33	3300.000	3300.00	63.410	62.132	1.278	0.115	
	No 34	3400.000	3400.00	61.965	62.130	0.165	0.175	
	No 35	3500.000	3500.00	61.352	62.061	0.709	0.195	
	No 36	3600.000	3600.00	62.171	62.031	0.136	0.196	
	No 37	3700.000	3700.00	64.282	62.000	2.282	0.196	
	No 38	3800.000	3800.00	65.304	61.951	3.353	0.196	
	No 39	3900.000	3900.00	64.125	61.933	2.192	0.196	
	No 40	4000.000	4000.00	62.402	61.887	0.515	0.196	
	No 41	4100.000	4100.00	61.533	61.833	0.667	0.196	

DWG-10 PLAN AND PROFILE OF EXTENSION ROUTE OF THE LEFT BANK MAIN CANAL (1/8)

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DWG-10 PLAN AND PROFILE OF EXTENSION ROUTE OF THE LEFT BANK MAIN CANAL (2/8)

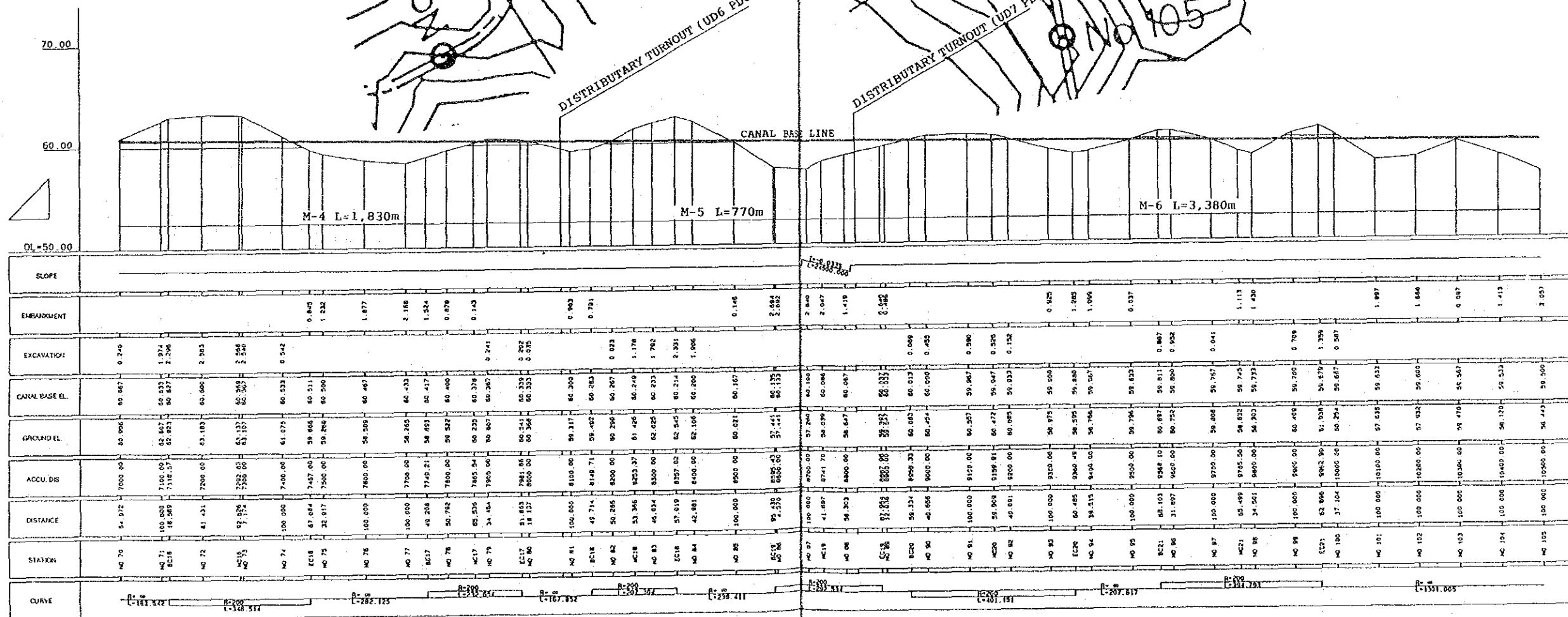
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DISTRIBUTARY TURNOUT (UD6 PD6)

DISTRIBUTARY TURNOUT (UD7 PD9)

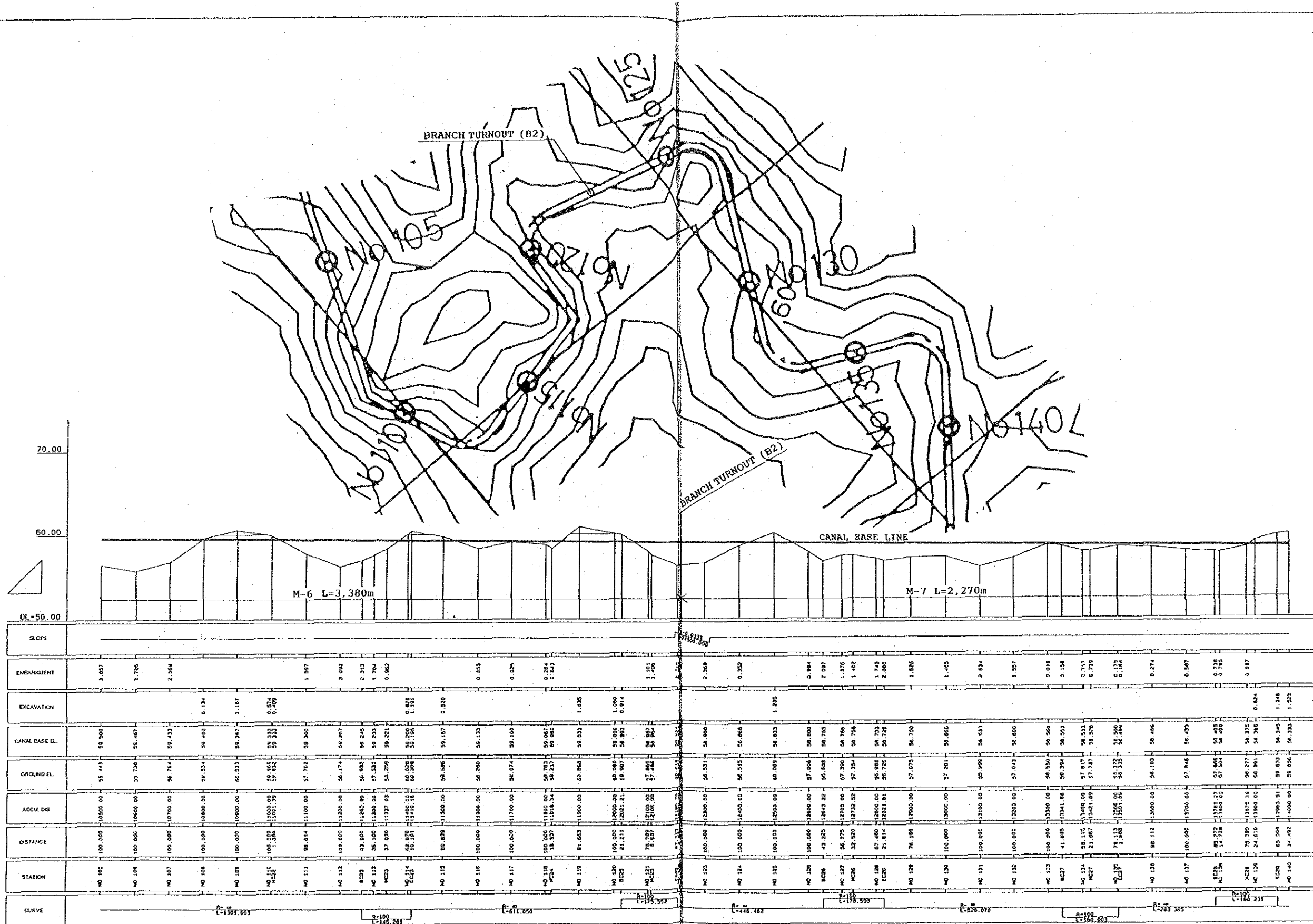


DWG-10 PLAN AND PROFILE OF EXTENSION ROUTE OF THE LEFT BANK MAIN CANAL (3/8)

GOVERNMENT OF DEMOCRATIC SOCIALIST  
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 MINISTRY OF LANDS, IRRIGATION AND MAHAWEI DEVELOPMENT

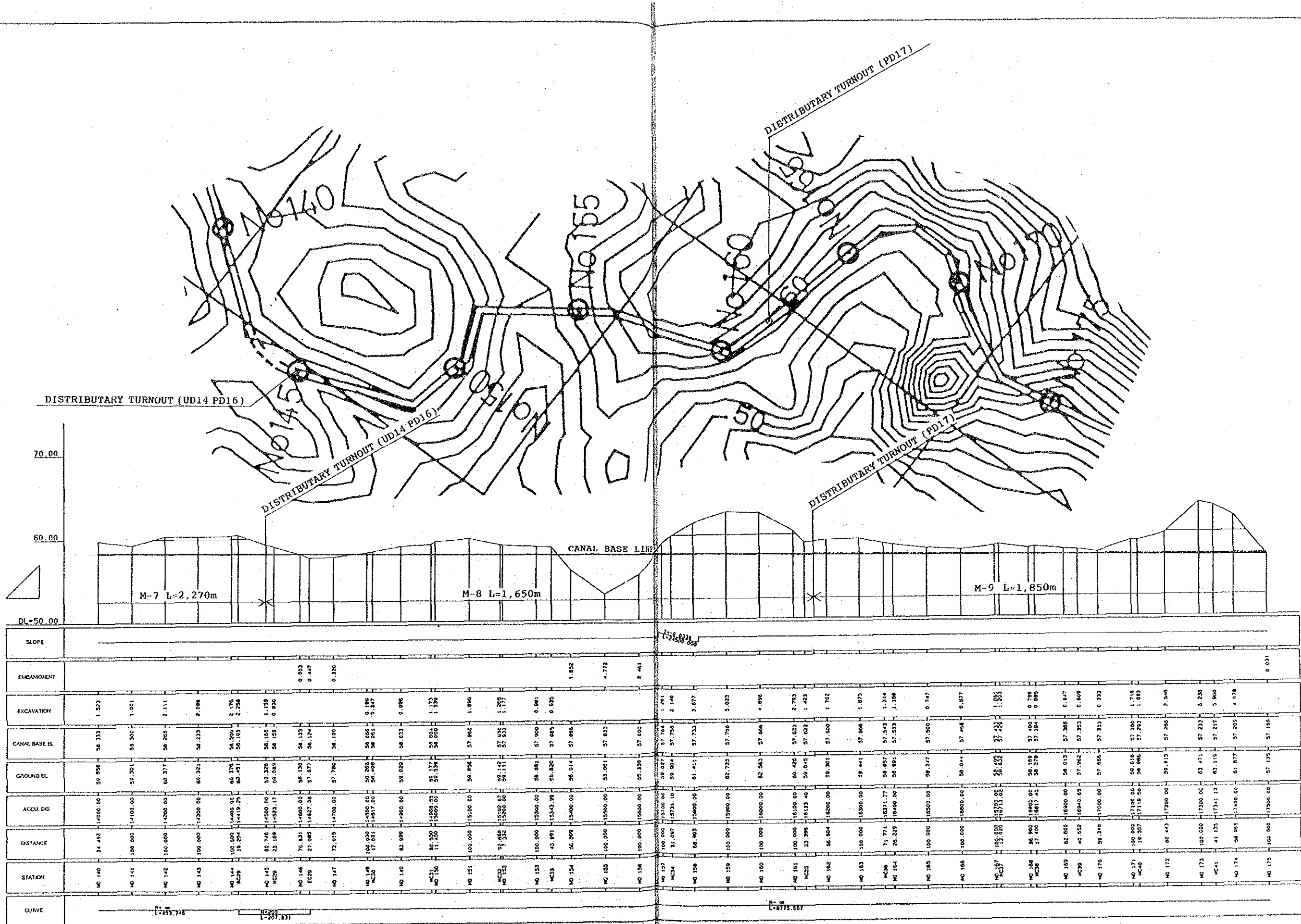
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DWG-10 PLAN AND PROFILE OF EXTENSION ROUTE OF THE LEFT BANK MAIN CANAL (4/8)

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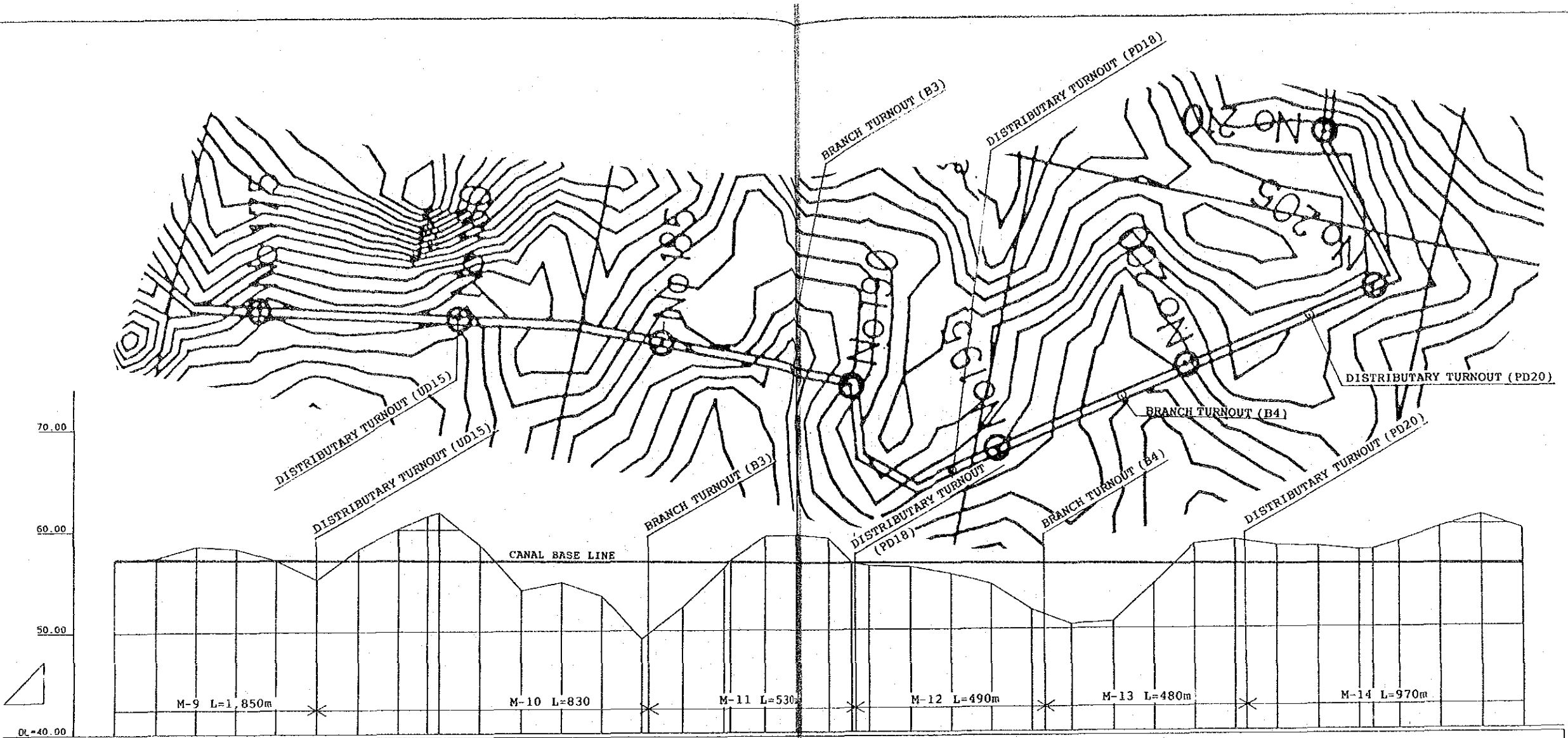


DWG-10 PLAN AND PROFILE OF EXTENSION ROUTE OF THE LEFT BANK MAIN CANAL (5/8)

GOVERNMENT OF DEMOCRATIC SOCIALIST  
 REPUBLIC OF SRI LANKA  
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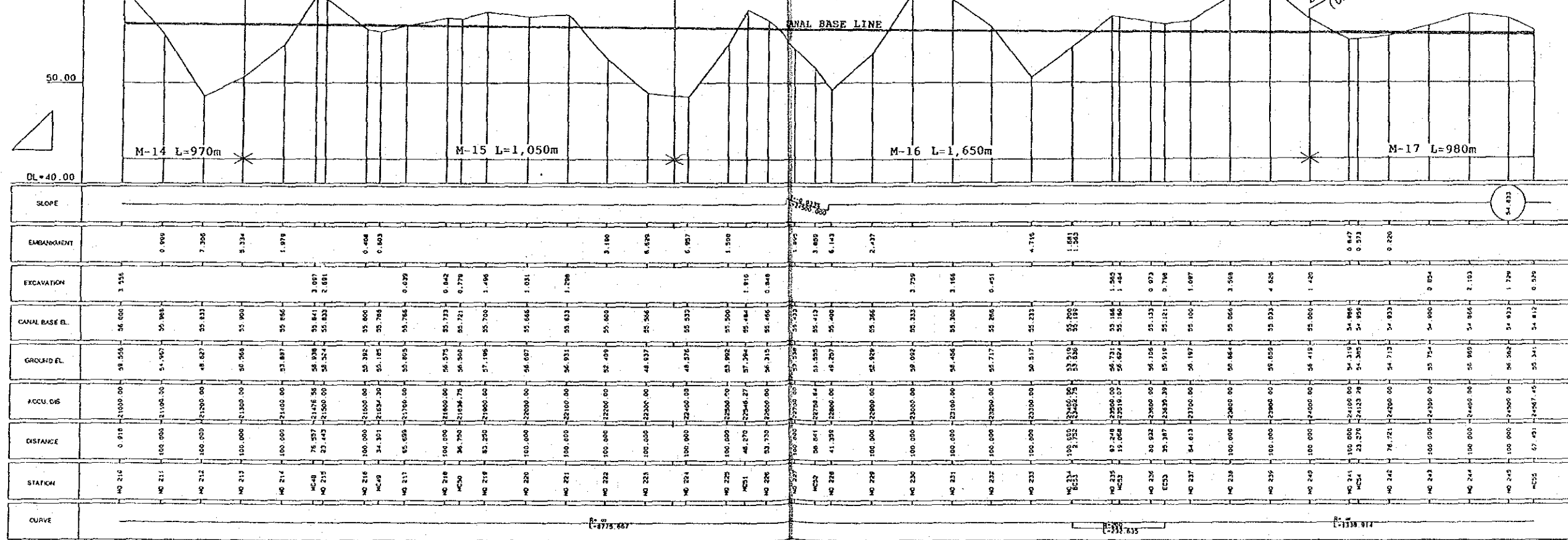
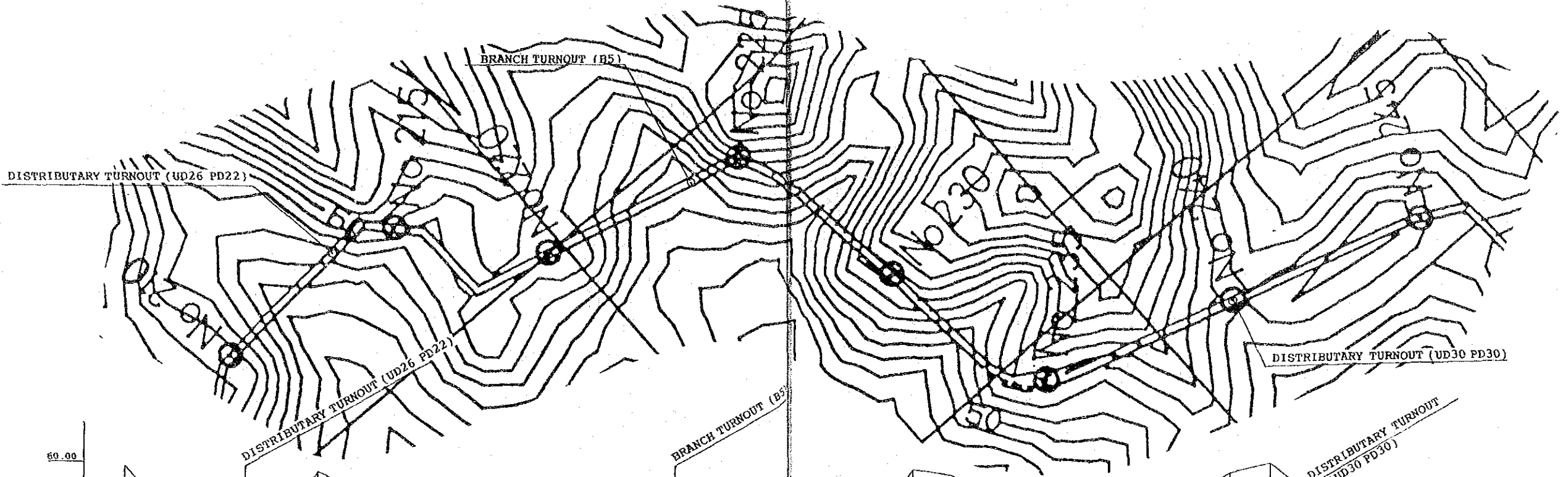
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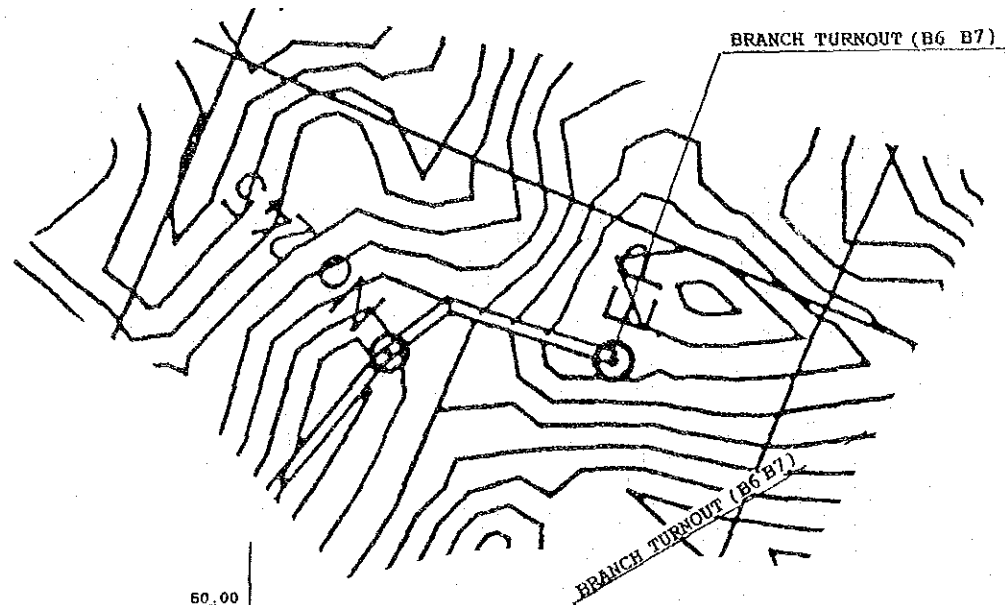
STATION	DISTANCE	ACCUM. DIS.	GROUND EL.	CANAL BASE EL.	EXCAVATION	SLOPE
MC 175	100.000	17500.00	57.135	57.166	0.031	
MC 176	100.000	17600.00	57.313	57.333	0.100	
MC 177	100.000	17700.00	58.476	57.100	1.378	
MC 178	100.000	17800.00	59.216	57.006	1.151	
MC 179	100.000	17900.00	57.053	57.033	0.020	
MC 180	100.000	18000.00	55.110	57.000	1.890	
MC 181	100.000	18100.00	56.141	56.966	1.124	
MC 182	100.000	18200.00	59.122	56.933	3.189	
MC 183	71.199	18271.20	61.370	56.900	4.461	
MC 184	29.801	18300.00	61.700	56.900	4.800	
MC 185	100.000	18400.00	58.495	56.866	1.634	
MC 186	100.000	18500.00	53.948	56.833	2.885	
MC 187	100.000	18600.00	54.797	56.800	2.043	
MC 188	100.000	18700.00	53.375	56.766	3.391	
MC 189	100.000	18800.00	52.242	56.733	4.491	
MC 190	100.000	18900.00	56.134	56.700	0.566	
MC 191	84.164	19000.00	56.833	56.666	0.167	
MC 192	100.000	19100.00	59.194	56.633	2.561	
MC 193	100.000	19200.00	59.012	56.600	2.412	
MC 194	26.128	19256.13	56.546	56.566	0.020	
MC 195	43.871	19300.00	56.230	56.533	0.303	
MC 196	100.000	19400.00	56.109	56.500	0.390	
MC 197	100.000	19500.00	55.403	56.466	1.063	
MC 198	100.000	19600.00	54.387	56.433	2.046	
MC 199	100.000	19700.00	51.843	56.400	4.557	
MC 200	100.000	19800.00	50.834	56.366	5.526	
MC 201	100.000	19900.00	54.328	56.333	3.605	
MC 202	100.000	20000.00	56.191	56.300	1.109	
MC 203	100.000	20100.00	55.039	56.266	1.227	
MC 204	100.000	20200.00	56.027	56.233	0.206	
MC 205	100.000	20300.00	57.003	56.200	0.803	
MC 206	100.000	20400.00	57.519	56.166	1.353	
MC 207	34.648	20434.65	57.372	56.133	1.239	
MC 208	65.352	20500.00	56.334	56.100	2.234	
MC 209	100.000	20600.00	59.721	56.066	3.655	
MC 210	100.000	20700.00	60.034	56.033	4.001	
MC 211	99.000	20800.00	58.527	56.000	2.527	
MC 212	0.000	20800.00	58.527	56.000	2.527	

DWG-10 PLAN AND PROFILE OF EXTENSION ROUTE OF THE LEFT BANK MAIN CANAL (6/8)



STATION	DISTANCE	ACCU. DIS	GROUND EL.	CANAL BASE EL.	EXCAVATION	EMBANKMENT	SL. (%)
MC 210	0.00	0.00	48.55	48.00	0.55	0.00	0.00
MC 211	100.00	100.00	48.27	47.83	0.44	7.36	0.44
MC 212	200.00	200.00	48.67	48.33	0.34	5.34	0.34
MC 213	300.00	300.00	50.58	50.00	0.58	1.87	0.58
MC 214	400.00	400.00	53.87	53.00	0.87	0.00	0.87
MC 215	500.00	500.00	55.54	55.00	0.54	0.00	0.54
MC 216	600.00	600.00	55.92	55.00	0.92	0.00	0.92
MC 217	700.00	700.00	55.18	55.00	0.18	0.00	0.18
MC 218	800.00	800.00	55.85	55.00	0.85	0.00	0.85
MC 219	900.00	900.00	56.57	55.00	1.57	0.00	1.57
MC 220	1000.00	1000.00	56.91	55.00	1.91	0.00	1.91
MC 221	1100.00	1100.00	52.09	52.00	0.09	3.10	0.09
MC 222	1200.00	1200.00	48.07	48.00	0.07	6.49	0.07
MC 223	1300.00	1300.00	48.27	48.00	0.27	0.00	0.27
MC 224	1400.00	1400.00	53.92	53.00	0.92	0.00	0.92
MC 225	1500.00	1500.00	57.34	57.00	0.34	0.00	0.34
MC 226	1600.00	1600.00	56.31	56.00	0.31	0.00	0.31
MC 227	1700.00	1700.00	51.55	51.00	0.55	0.00	0.55
MC 228	1800.00	1800.00	49.27	49.00	0.27	0.00	0.27
MC 229	1900.00	1900.00	52.32	52.00	0.32	2.47	0.32
MC 230	2000.00	2000.00	58.02	58.00	0.02	0.00	0.02
MC 231	2100.00	2100.00	56.68	56.00	0.68	0.00	0.68
MC 232	2200.00	2200.00	55.77	55.00	0.77	0.00	0.77
MC 233	2300.00	2300.00	50.17	50.00	0.17	4.71	0.17
MC 234	2400.00	2400.00	53.00	53.00	0.00	0.00	0.00
MC 235	2500.00	2500.00	55.71	55.00	0.71	0.00	0.71
MC 236	2600.00	2600.00	56.18	56.00	0.18	0.00	0.18
MC 237	2700.00	2700.00	55.10	55.00	0.10	0.00	0.10
MC 238	2800.00	2800.00	55.51	55.00	0.51	0.00	0.51
MC 239	2900.00	2900.00	56.18	56.00	0.18	0.00	0.18
MC 240	3000.00	3000.00	55.64	55.00	0.64	0.00	0.64
MC 241	3100.00	3100.00	55.05	55.00	0.05	4.85	0.05
MC 242	3200.00	3200.00	55.41	55.00	0.41	0.00	0.41
MC 243	3300.00	3300.00	54.15	54.00	0.15	1.42	0.15
MC 244	3400.00	3400.00	54.96	54.00	0.96	0.00	0.96
MC 245	3500.00	3500.00	54.30	54.00	0.30	0.00	0.30
MC 246	3600.00	3600.00	54.83	54.00	0.83	0.00	0.83
MC 247	3700.00	3700.00	54.71	54.00	0.71	0.00	0.71
MC 248	3800.00	3800.00	54.75	54.00	0.75	0.00	0.75
MC 249	3900.00	3900.00	55.90	55.00	0.90	2.10	0.90
MC 250	4000.00	4000.00	56.50	56.00	0.50	0.00	0.50
MC 251	4100.00	4100.00	56.50	56.00	0.50	0.00	0.50
MC 252	4200.00	4200.00	54.82	54.00	0.82	1.29	0.82
MC 253	4300.00	4300.00	55.34	55.00	0.34	0.00	0.34
MC 254	4400.00	4400.00	54.42	54.00	0.42	0.00	0.42
MC 255	4500.00	4500.00	54.42	54.00	0.42	0.00	0.42

DWG-10 PLAN AND PROFILE OF EXTENSION ROUTE OF THE LEFT BANK MAIN CANAL (7/8)



60.00

DL = 50.00

CANAL BASE LINE

M-17 L=980m

SLOPE					
EMBANKMENT	0.376	2.034	0.896		
EXCAVATION	0.328			3.025	2.228
CANAL BASE EL.	54.812	54.803	54.777	54.742	54.713
GROUND EL.	53.341	54.208	53.153	54.055	57.783
ACCU. DS	2453.42	2460.00	2460.00	2460.00	2460.00
DISTANCE	67.451	32.545	195.002	100.000	74.301
STATION	MC25 42+245	MC27 42+277	MC 42+472	MC 42+572	42+646
CURVE					

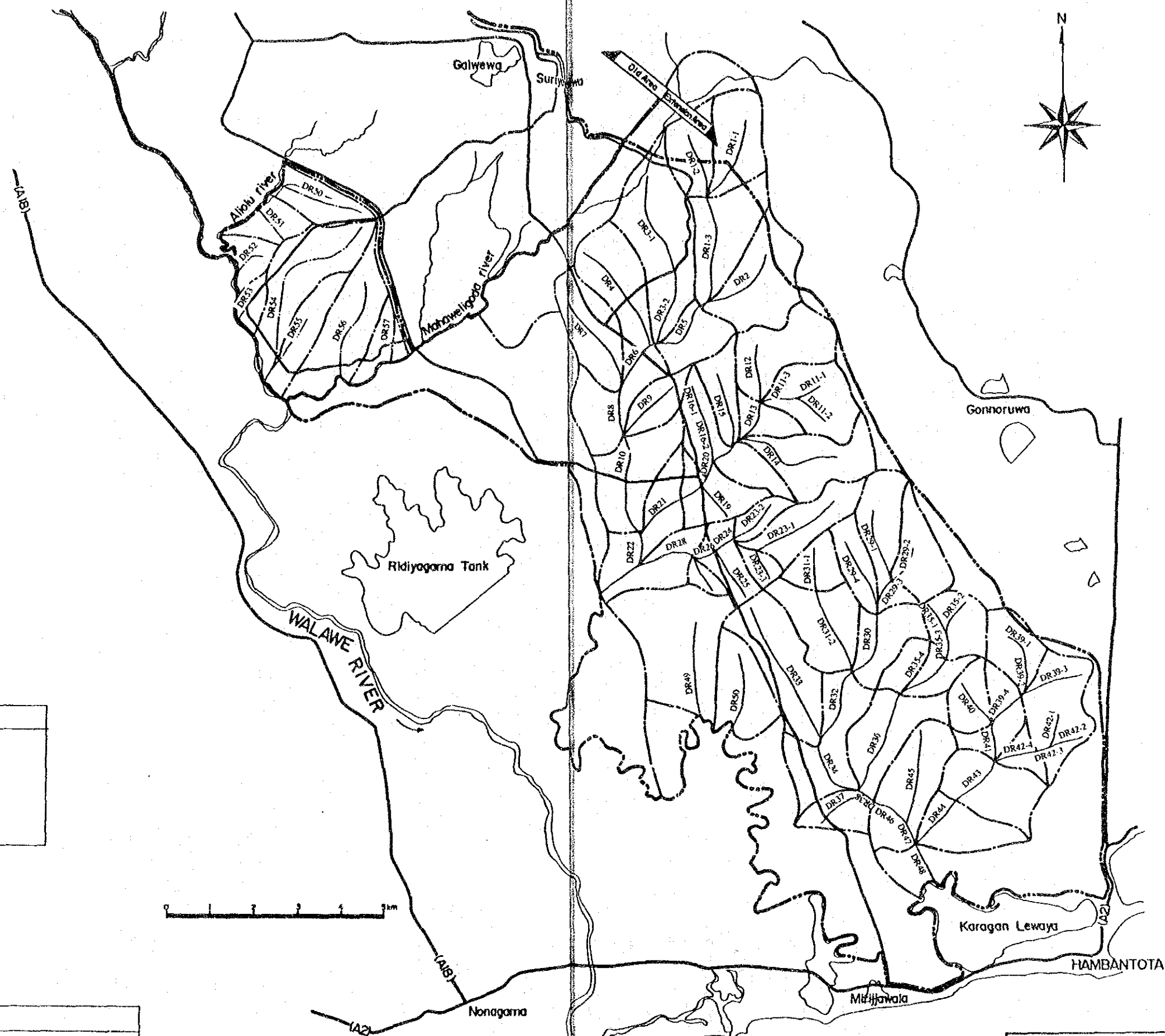
DWG-10 PLAN AND PROFILE OF EXTENSION ROUTE  
OF THE LEFT BANK MAIN CANAL (8/8)

GOVERNMENT OF DEMOCRATIC SOCIALIST  
REPUBLIC OF SRI LANKA  
MINISTRY OF LANDS, IRRIGATION AND MAHAWELE DEVELOPMENT

THE FEASIBILITY STUDY ON  
WALAWE IRRIGATION UPGRADING AND  
EXTENSION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY





Specific legend	
	Watershed line
	Drainage canal (No. 48)

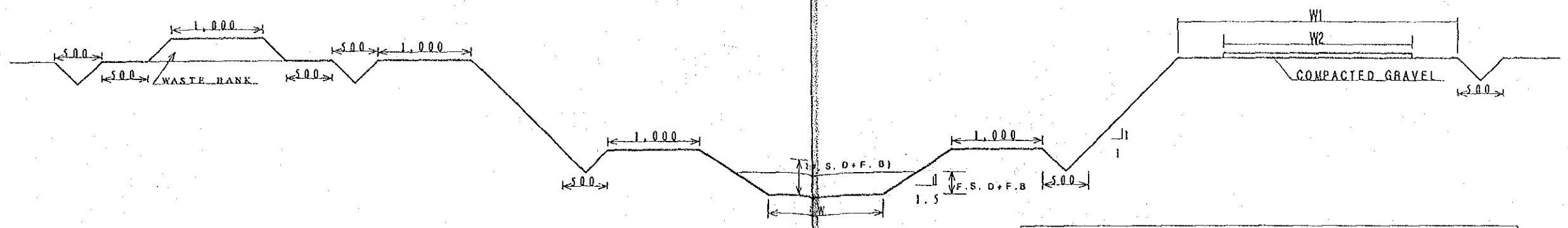


GENERAL LEGEND	
	BOUNDARY OF STUDY AREA
	BOUNDARY BETWEEN OLD AND EXTENSION AREA
	RIVER/STREAM
	MAJOR ROAD
	TANK

INDIAN SEA

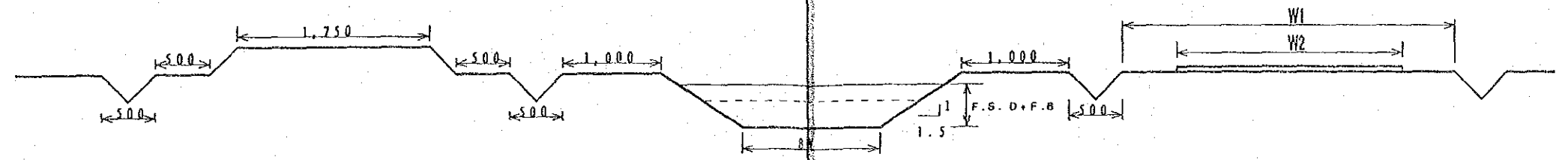
DWG-II PROPOSED DRAINAGE CANAL NETWORK

GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF LANDS, IRRIGATION AND MAHAWELE DEVELOPMENT
<b>THE FEASIBILITY STUDY ON WALAWE IRRIGATION UPGRADING AND EXTENSION PROJECT</b>
JAPAN INTERNATIONAL COOPERATION AGENCY

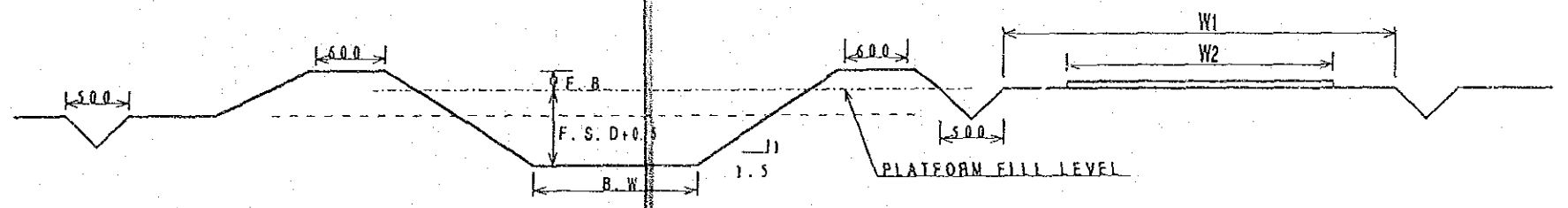


TOTAL CUT (F. S. D+F. B)  
THROUGH CUT

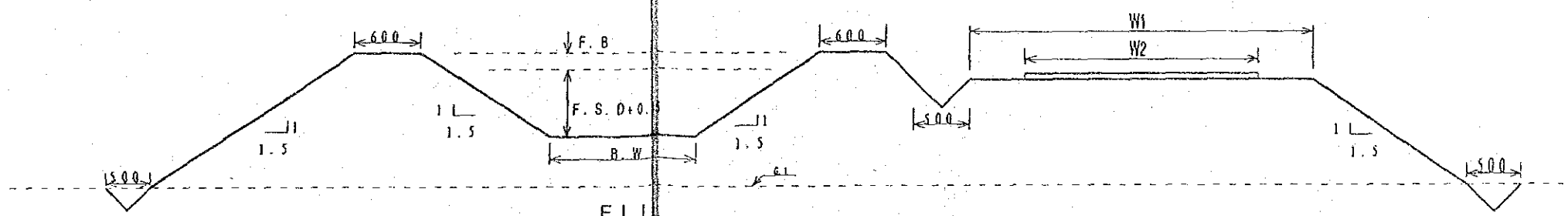
MAIN CANAL	W1 = 6.0 m	W2 = 4.5 m
BRANCH CANAL	W1 = 6.0 m	W2 = 4.5 m
DISTRIBUTARY CANAL	W1 = 3.1 m	W2 = 2.1 m



TOTAL CUT (F. S. D+F. B)  
THROUGH CUT



NORMAL

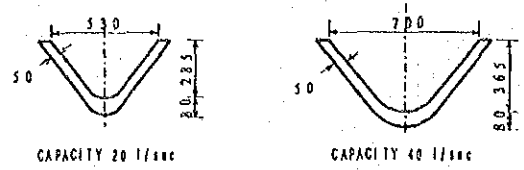


FILL

TYPICAL CANAL SECTION

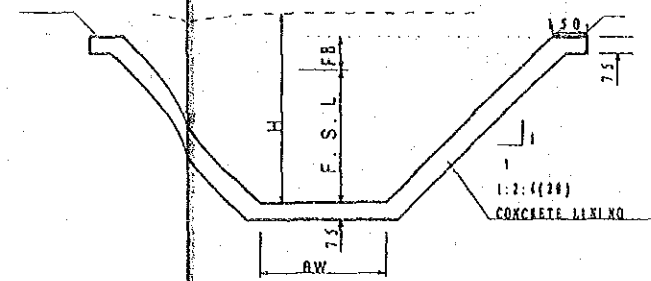
DWG-12 TYPICAL SECTIONS OF PROPOSED  
CANALS AND ROADS (1/3)

TYPICAL CANAL SECTION AND LINING DETAILS



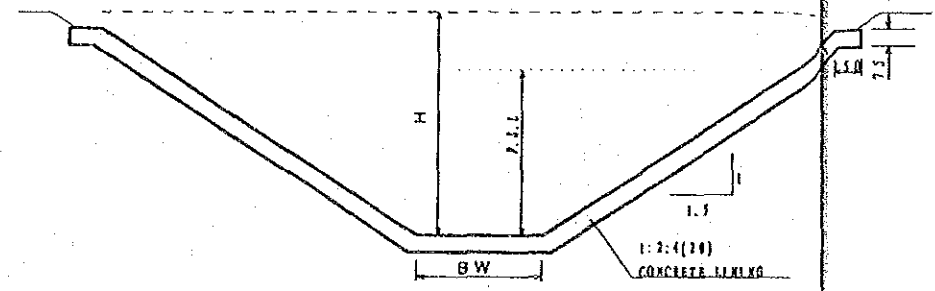
CAPACITY 20 l/sec      CAPACITY 40 l/sec

FIELD CANAL



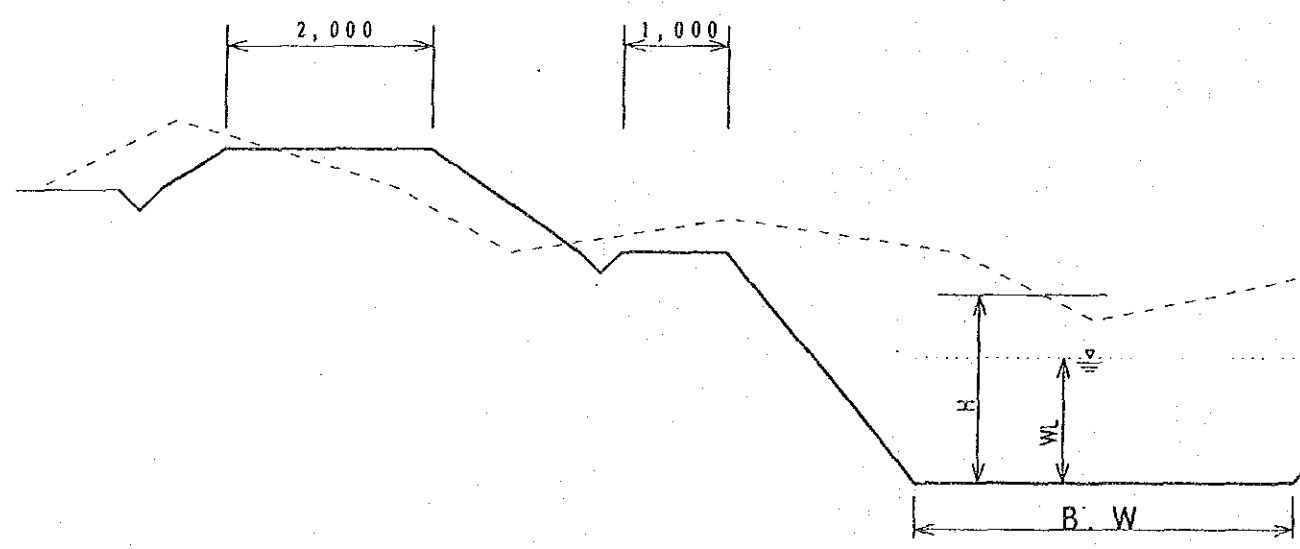
TYPE C-1 CANAL

C-1	1	2	3	4	5	6	7
BW	300	300	300	300	300	600	600
H	300	350	400	450	550	600	750

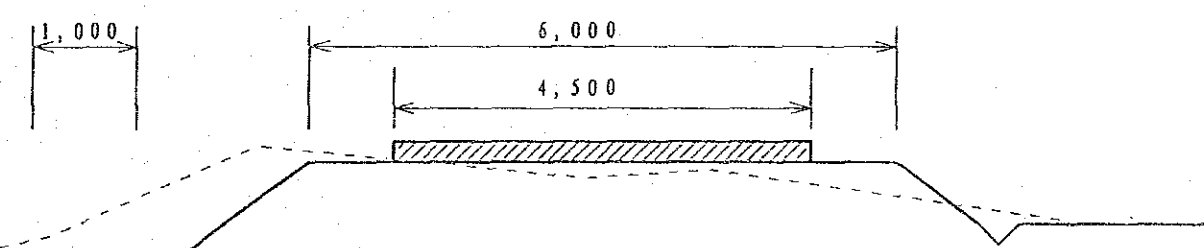


TYPE C-2 CANAL

C-2	1	2	3	4	5	6	7	8	9
BW	600	600	600	600	600	600	600	600	600
H	800	850	900	1,000	1,100	1,150	1,200	1,300	1,400



MAIN CANAL



M	1	2	3	4	5	6	7	8
BW	1,000	1,500	2,000	2,000	3,000	3,500	4,000	4,500
H	1,600	1,700	1,900	2,100	2,300	2,500	2,600	2,600

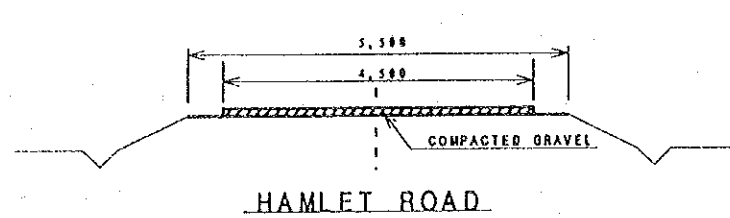
TYPICAL CANAL SECTION AND LINING DETAILS

DWG-12 TYPICAL SECTIONS OF PROPOSED CANALS AND ROADS (2/3)

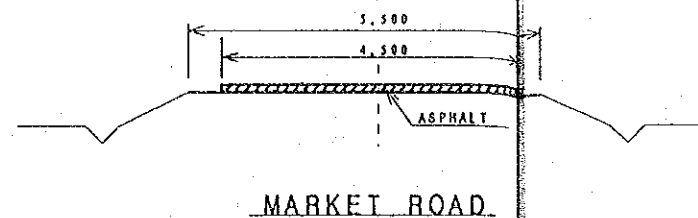
GOVERNMENT OF DEMOCRATIC SOCIALIST  
REPUBLIC OF SRI LANKA  
MINISTRY OF LANDS, IRRIGATION AND MAHAWELEI DEVELOPMENT

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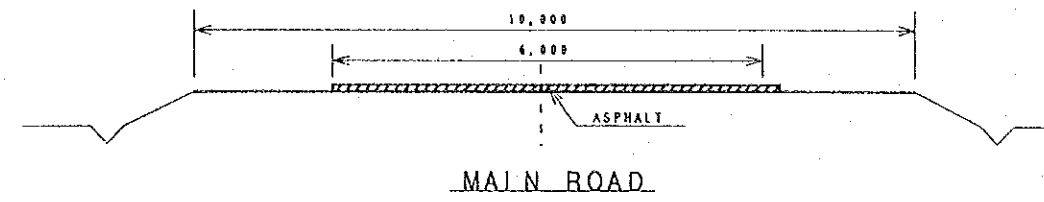
JAPAN INTERNATIONAL COOPERATION AGENCY



HAMLET ROAD

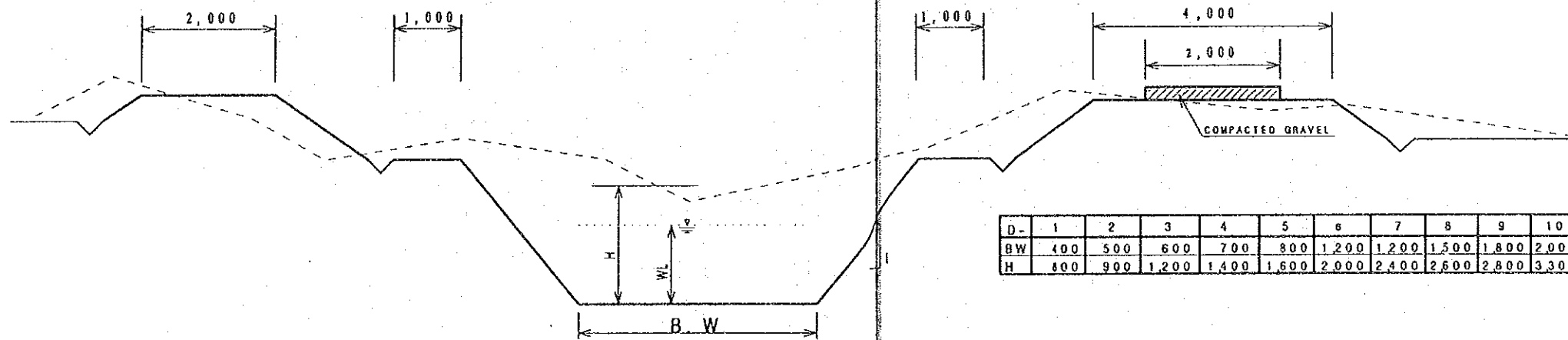


MARKET ROAD



MAIN ROAD

TYPICAL ROAD SECTION



DRAIN

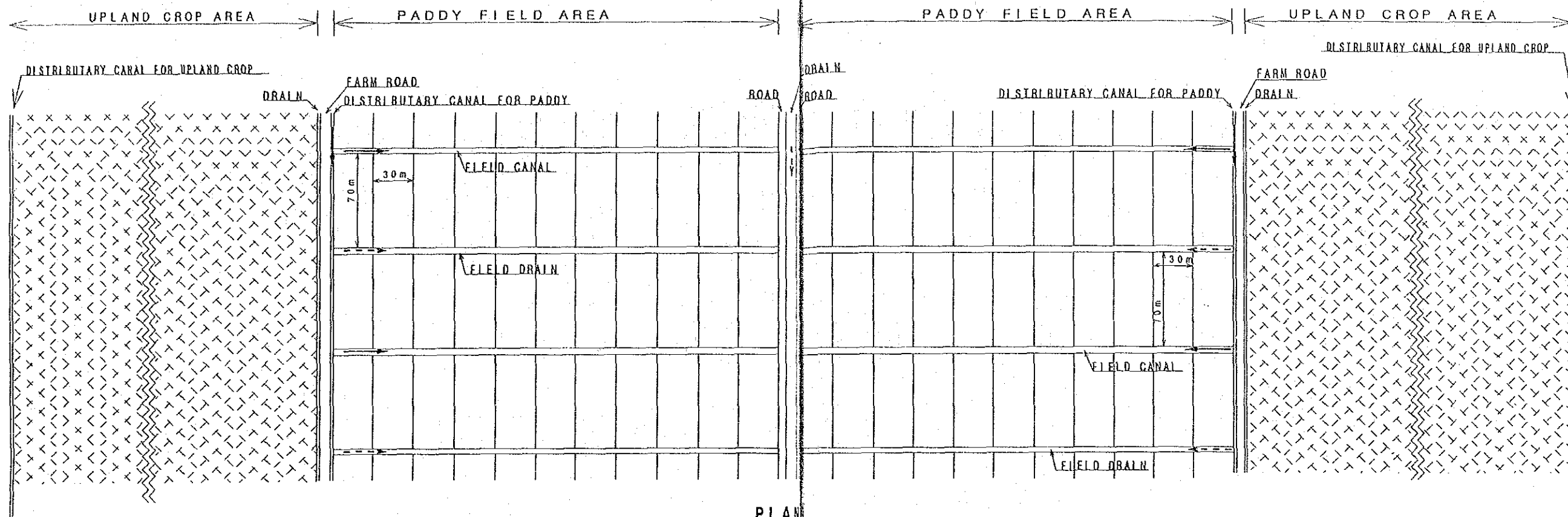
D-	1	2	3	4	5	6	7	8	9	10	11
BW	400	500	600	700	800	1,200	1,200	1,500	1,800	2,000	4,000
H	600	900	1,200	1,400	1,600	2,000	2,400	2,600	2,800	3,300	3,500

DWG-12 TYPICAL SECTIONS OF PROPOSED CANALS AND ROADS (3/3)

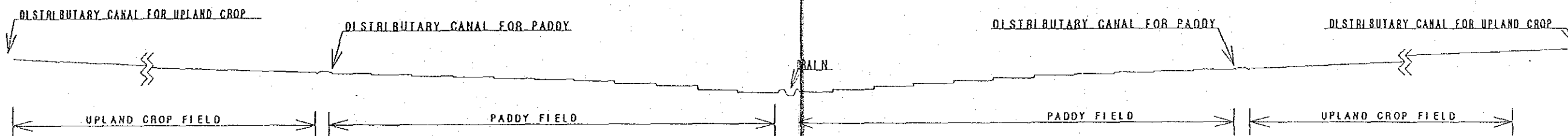
GOVERNMENT OF DEMOCRATIC SOCIALIST  
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MINISTRY OF LANDS, IRRIGATION AND MAHAWELE DEVELOPMENT

THE FEASIBILITY STUDY ON  
WALAWE IRRIGATION UPGRADING AND  
EXTENSION PROJECT

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PLAN

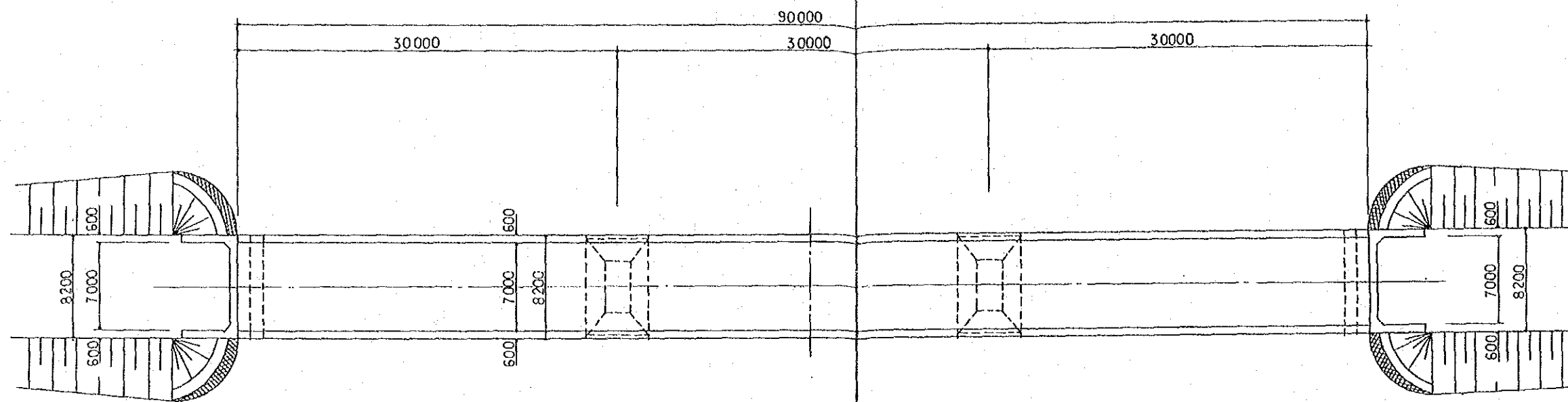


TYPICAL CROSS SECTION

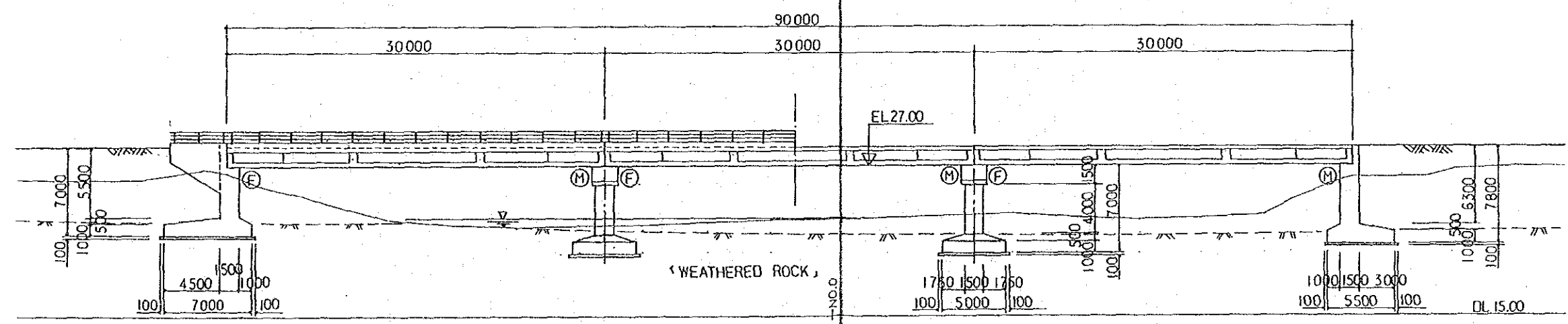
DWG-13 SCHEMATIC LAYOUT OF  
PROPOSED ON-FARM FACILITIES

GOVERNMENT OF DEMOCRATIC SOCIALIST  
REPUBLIC OF SRI LANKA  
MINISTRY OF LANDS, IRRIGATION AND MAHAWELE DEVELOPMENT  
THE FEASIBILITY STUDY ON  
WALAWE IRRIGATION UPGRADING AND  
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JAPAN INTERNATIONAL COOPERATION AGENCY

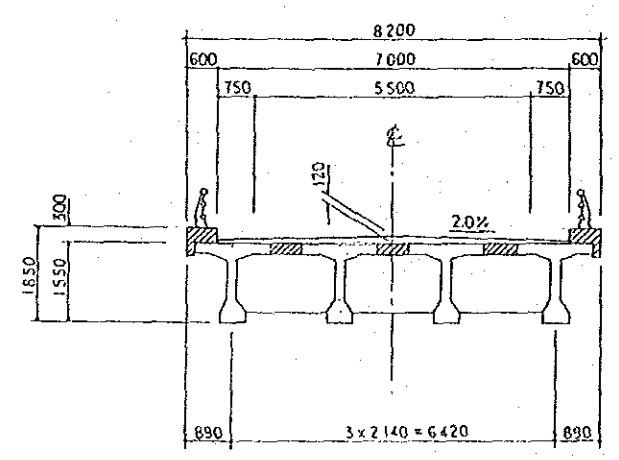
P L A N



LONGITUDINAL SECTION



CROSS SECTION



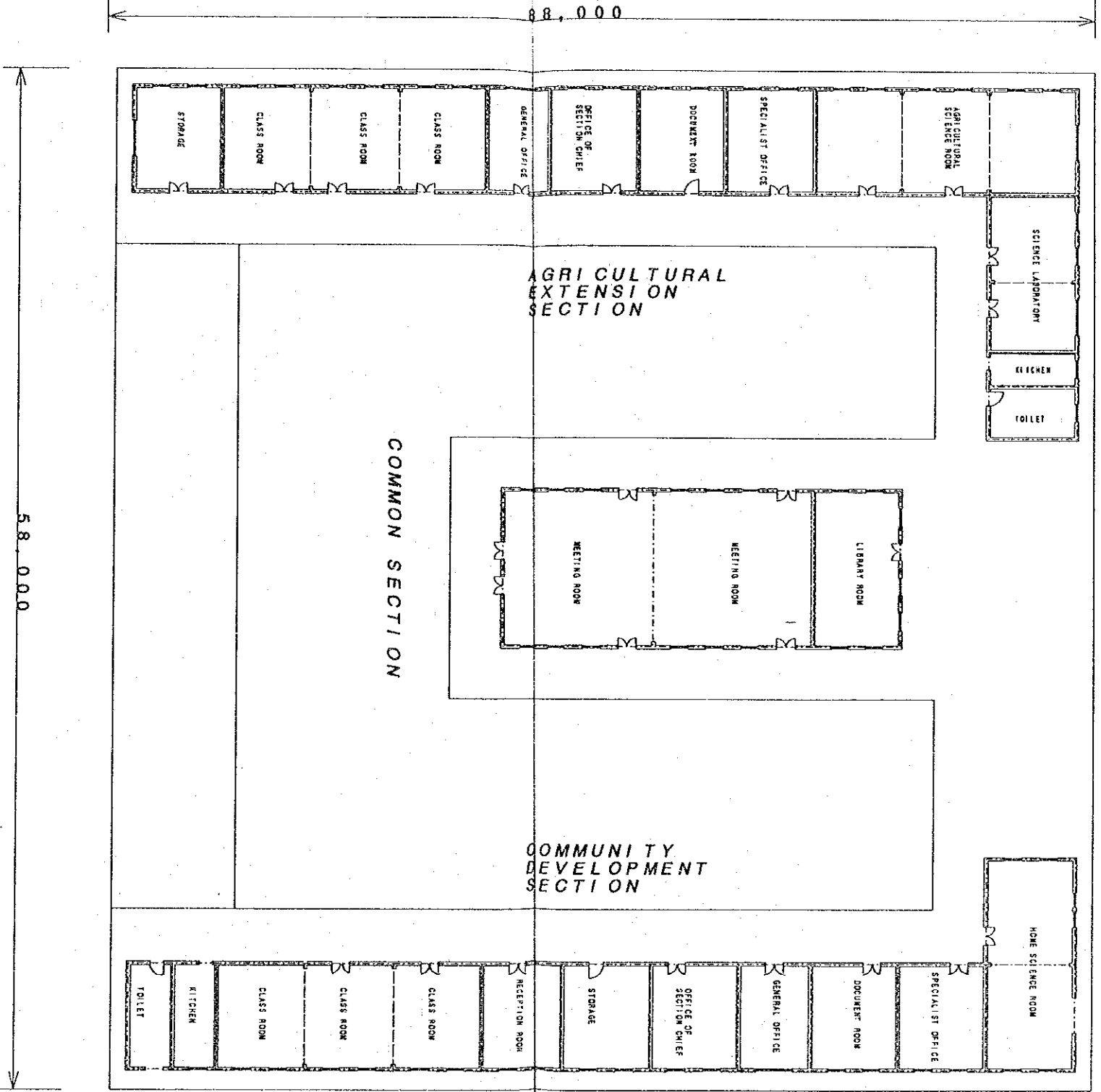
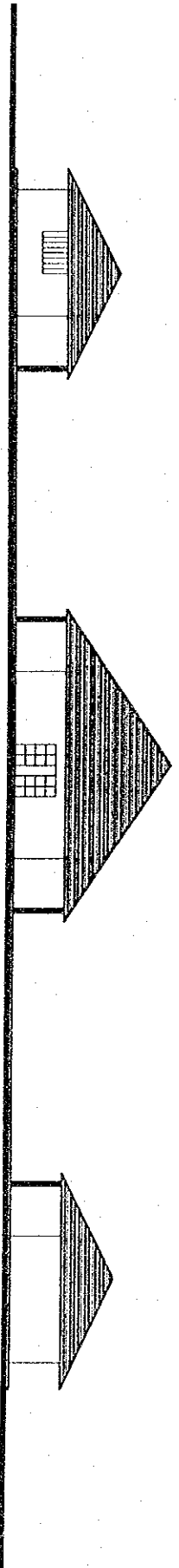
DWG-14 MAIN FEATURES OF PROPOSED BRIDGE ON THE WALAWE RIVER

GOVERNMENT OF DEMOCRATIC SOCIALIST  
REPUBLIC OF SRI LANKA  
MINISTRY OF LANDS, IRRIGATION AND MAHAWELE DEVELOPMENT

THE FEASIBILITY STUDY ON  
WALAWE IRRIGATION UPGRADING AND  
EXTENSION PROJECT

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FRONT ELEVATION



PLAN

DWG-15 LAYOUT PLAN OF PROPOSED DEVELOPMENT CENTER

GOVERNMENT OF DEMOCRATIC SOCIALIST  
 REPUBLIC OF SRI LANKA  
 MINISTRY OF LANDS, IRRIGATION AND MAHAWELE DEVELOPMENT

THE FEASIBILITY STUDY ON  
 WALAWE IRRIGATION UPGRADING AND  
 EXTENSION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

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