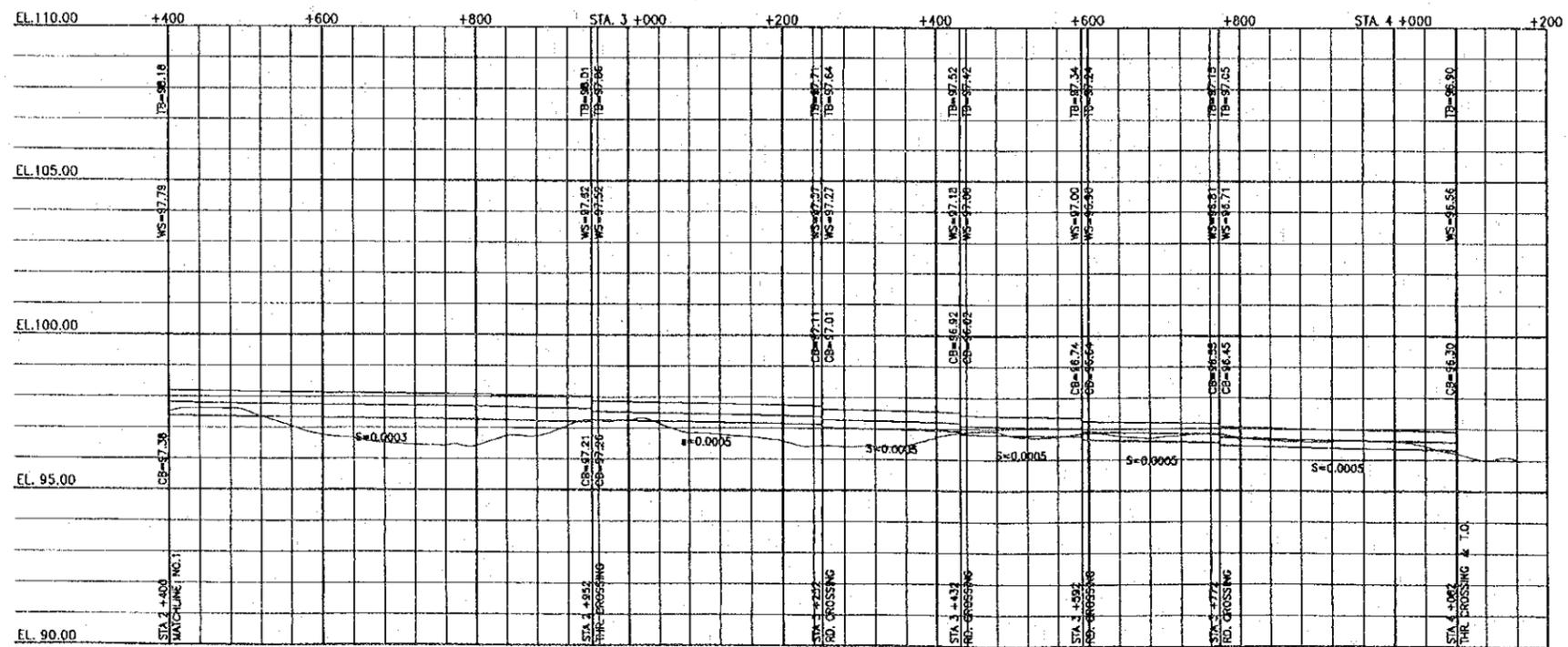


PLAN
SCALE: B



PROFILE OF MAIN CANAL (STA. 2 +400 ~ STA. 4 +082)
V = SCALE: A H = SCALE: B

CURVE ELEMENTS

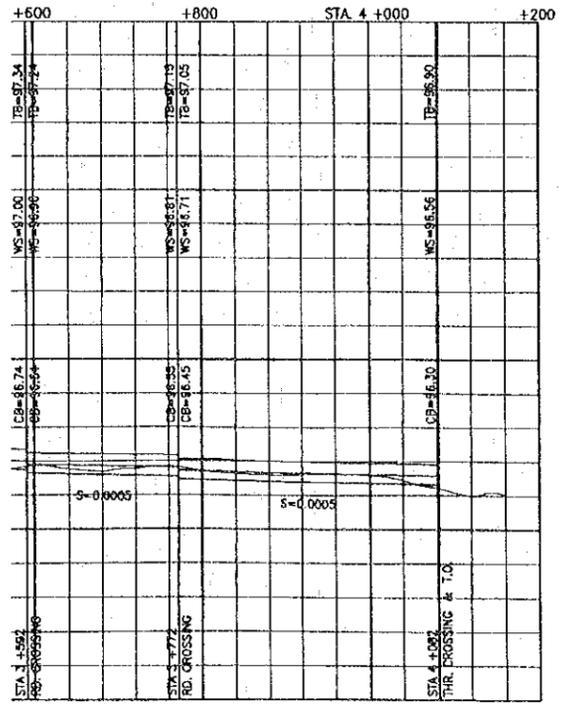
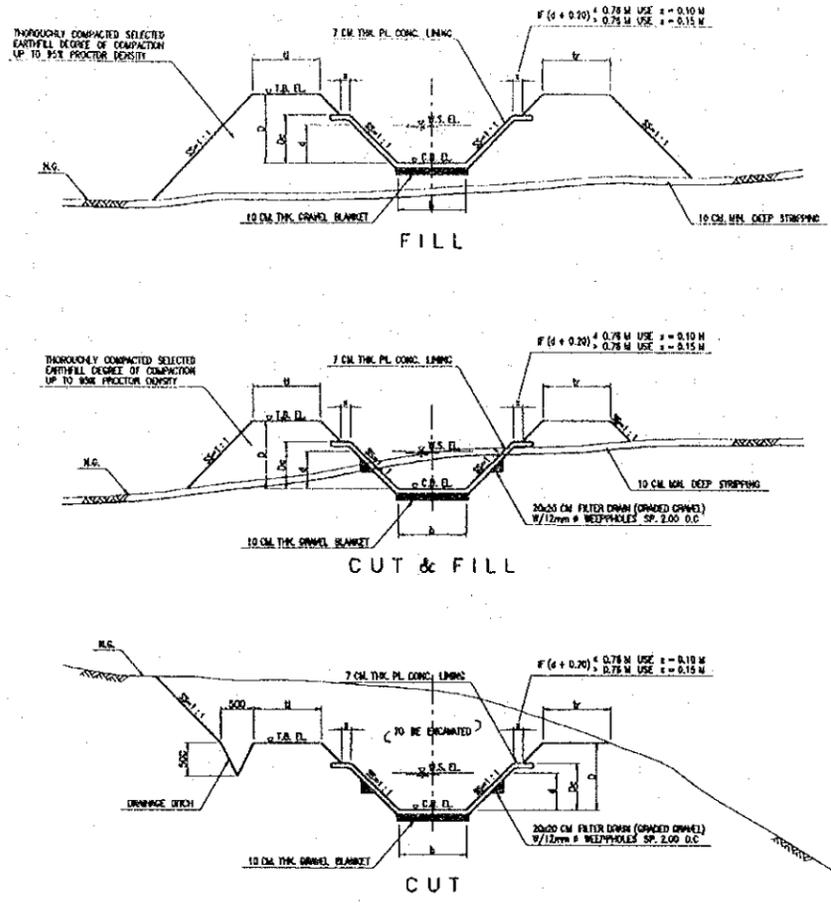
LINE PI TO PI	AZIMUTH	DISTANCE (m)	I	L.C.	R.	T	e
10 - 11	86 - 52	275.70	05 - 51	1.94	19	0.97	0.024
11 - 12	92 - 43	259.00	08 - 18	2.02	14	1.01	0.036
12 - 13	84 - 25	755.00	98 - 15	24.00	14	16.17	7.39
13 - 14	82 - 40	300.00	96 - 55	16.92	10	11.28	5.09
14 - 15	85 - 45	180.00	102 - 05	17.82	10	12.36	5.90
15 - 16	187 - 50	340.00	13 - 00	2.27	10	1.42	0.06
16 - 17	174 - 50	108.00	11 - 39	2.03	10	1.02	0.05
17 - 18	186 - 29	202.00					

CANAL ELEMENTS

FROM STATION	TO STATION	Q	V	A	b	d	D	Dc	r	U/tr
2 +197	2 +952	0.232	0.464	0.500	0.80	0.41	0.80	0.60	0.254	0.80/0.80
2 +952	4 +082	0.104	0.456	0.228	0.60	0.26	0.60	0.40	0.169	0.60/0.80



TYPICAL CANAL SECTION
(STA. 2+400 ~ STA. 4+082) NO TO SCALE

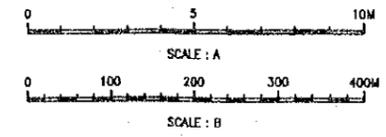


CURVE ELEMENTS

LINE P1 TO P1	AZIMUTH	DISTANCE (m)	I	L.C.	R.	T	o	STA. P.C.	STA. V	STA. P.T.
10 - 11	86 - 52	275.70	05 - 51	1.94	19	0.97	0.024	1 + 937.03	1 + 938	1 + 938.97
11 - 12	92 - 43	259.00	08 - 18	2.02	14	1.01	0.036	2 + 195.99	2 + 197	2 + 198.01
12 - 13	84 - 25	755.00	98 - 15	24.00	14	16.17	7.39	2 + 935.83	2 + 952	2 + 959.83
13 - 14	82 - 40	300.00	96 - 55	16.92	10	11.28	5.08	3 + 240.72	3 + 252	3 + 257.64
14 - 15	85 - 45	180.00	102 - 05	17.82	10	12.36	5.90	3 + 419.64	3 + 432	3 + 437.46
15 - 16	187 - 50	340.00	13 - 00	2.27	10	1.42	0.06	3 + 770.86	3 + 772	3 + 773.13
16 - 17	174 - 50	108.00	11 - 39	2.03	10	1.02	0.05	3 + 878.98	3 + 880	3 + 881.01
17 - 18	188 - 29	202.00						4 + 082		

CANAL ELEMENTS

FROM STATION	TO STATION	Q	V	A	b	d	D	Dc	r	u/lr	S	SS	n
2 + 197	2 + 952	0.232	0.464	0.500	0.80	0.41	0.80	0.60	0.254	0.80/0.80	0.0003	1 : 1	0.015
2 + 952	4 + 082	0.104	0.456	0.228	0.80	0.28	0.60	0.40	0.189	0.60/0.60	0.0005	1 : 1	0.015



THE REPUBLIC OF THE PHILIPPINES
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IN THE PROVINCE OF ISABELA

LAPOGAN CPIP
PLAN & PROFILE OF MAIN CANAL

STA 2 + 400 ~ STA 4 + 082

DWG
No. B-7

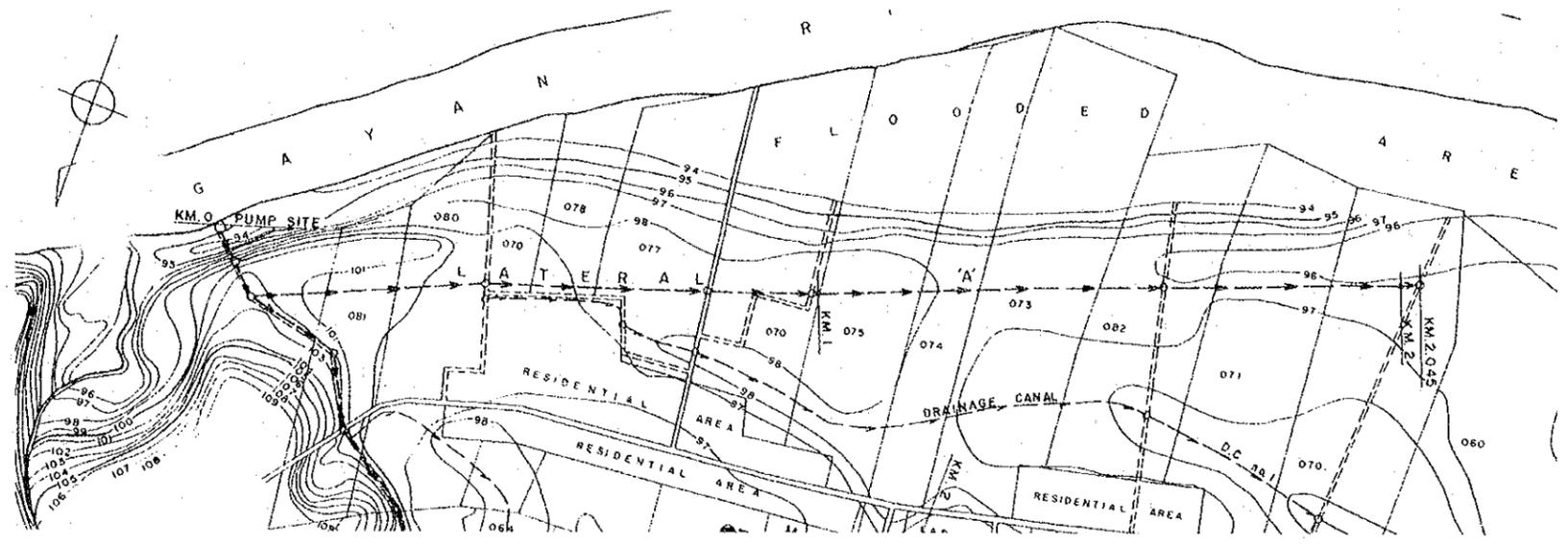
JAPAN INTERNATIONAL COOPERATION AGENCY

THOROUGHLY DENSIFIED SO
EARTHILL DEGREE OF COMP
UP TO 1% PROCTOR LEV

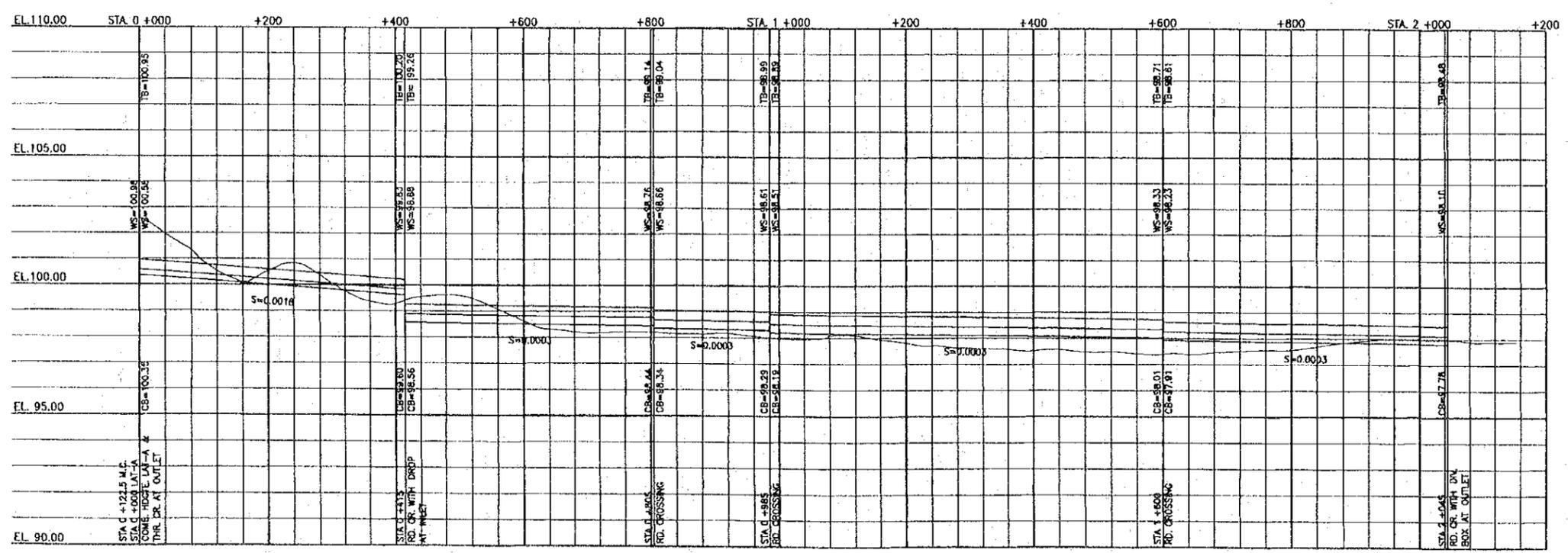
N.O.
THOROUGHLY COMPACT
EARTHILL DEGREE OF
UP TO 1% PROCTOR

R.G.
THOROUGHLY COMPACT
EARTHILL DEGREE OF
UP TO 1% PROCTOR

R.G.
THOROUGHLY COMPACT
EARTHILL DEGREE OF
UP TO 1% PROCTOR



PLAN
SCALE : B

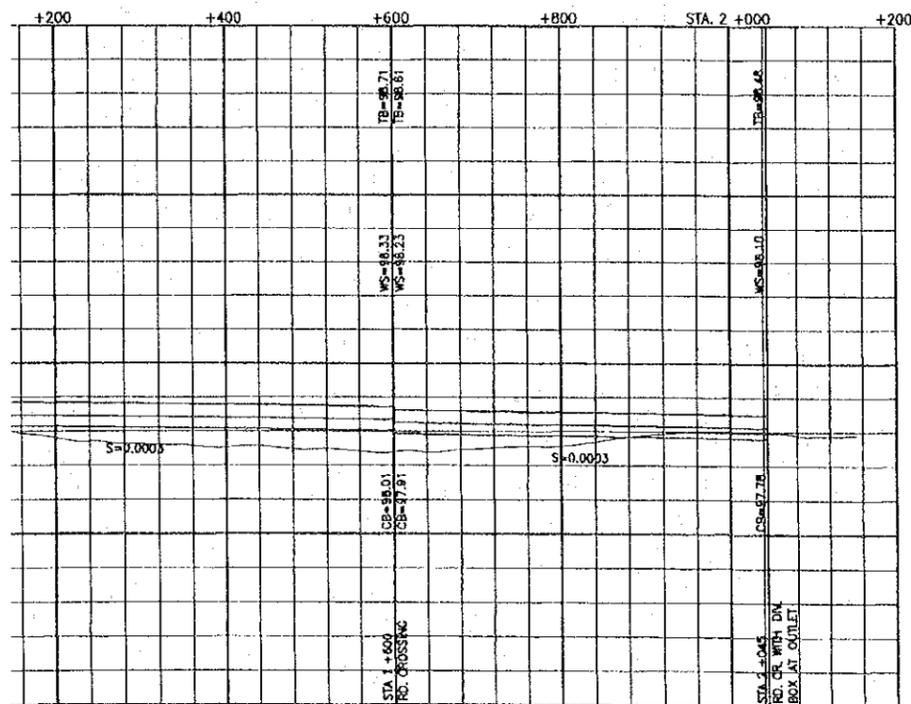
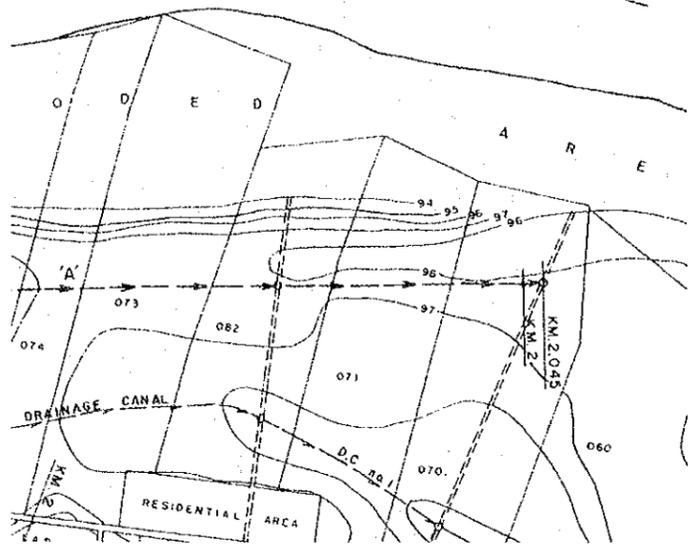


PROFILE OF LATERAL 'A'
V = SCALE : A H = SCALE : B

LINE P1 TO P1	AZIMUTH	DISTANCE (m)	i
MCI - 2	67 - 05	415.00	07 - 31
2 - 3	74 - 36	80.00	01 - 21
3 - 4	73 - 15	390.00	00 - 45
4 - 5	72 - 30	500.00	12 - 30
5 - 6	80 - 00	660.00	

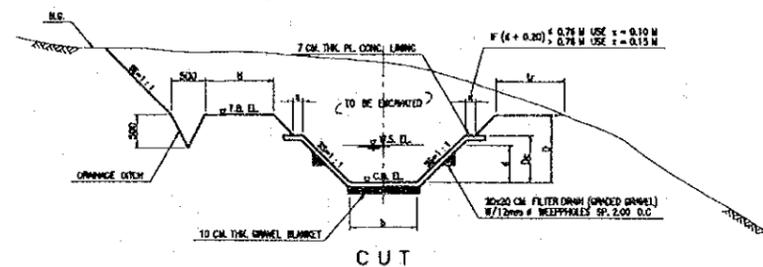
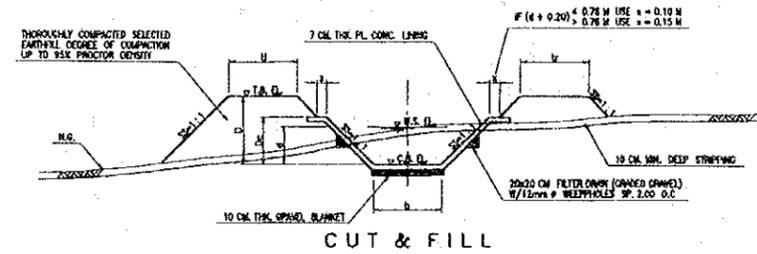
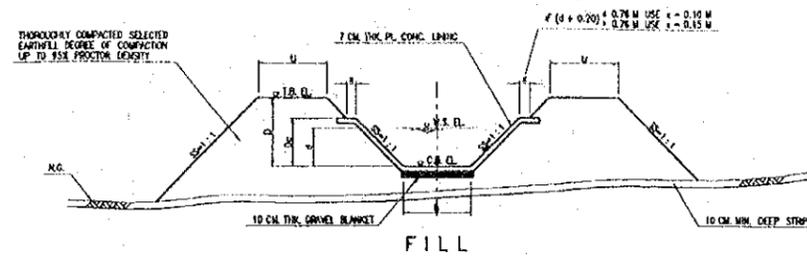
FROM STATION	TO STATION	Q m ³ /s	V m/s	A m ²	b m
0 + 000	0 + 415	0.126	0.775	0.163	0.50
0 + 415	2 + 045	0.126	0.396	0.320	0.70

CANAL



'A'
SCALE: B

TYPICAL CANAL SECTION
(STA. 0 +000 ~ STA. 2 +045) NO TO SCALE

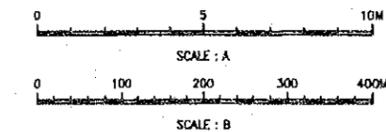


CURVE ELEMENTS

LINE PI TO PI	AZMUTH	DISTANCE (m)	I	LC	R	T	e	STA. P.C.	STA. V	STA. P.T.
MCI - 2	67 - 05	415.00	07 - 31	1.05	8	0.53	0.01	0 +414.47	0 +415	0 +414.52
2 - 3	74 - 36	80.00	01 - 21	0.28	12	0.14	0.001	0 +494.85	0 +495	0 +495.14
3 - 4	73 - 15	390.00	00 - 45	0.16	12	0.08	0.0002	0 +884.92	0 +885	0 +885.08
4 - 5	72 - 30	500.00	12 - 30	2.62	12	1.31	0.07	1 +363.69	1 +385	1 +386.31
5 - 6	80 - 00	660.00							2 +045	

CANAL ELEMENTS

FROM STATION	TO STATION	Q	V	A	b	d	D	Dc	r	U/tr	S	SS	n
0 +000	0 +415	0.126	0.775	0.163	0.50	0.23	0.60	0.40	0.144	0.60	0.0018	1:1	0.015
0 +415	2 +045	0.126	0.396	0.320	0.70	0.32	0.70	0.50	0.201	0.70	0.0003	1:1	0.015



THE REPUBLIC OF THE PHILIPPINES
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IN THE PROVINCE OF ISABELA

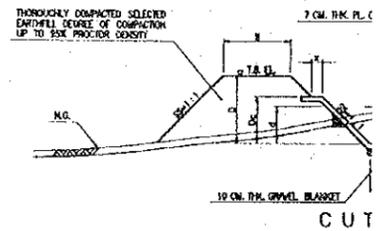
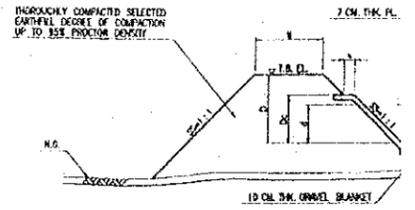
LAPOGAN CPIP
PLAN & PROFILE OF LAT - A

STA 0 +000 ~ STA 2 +045

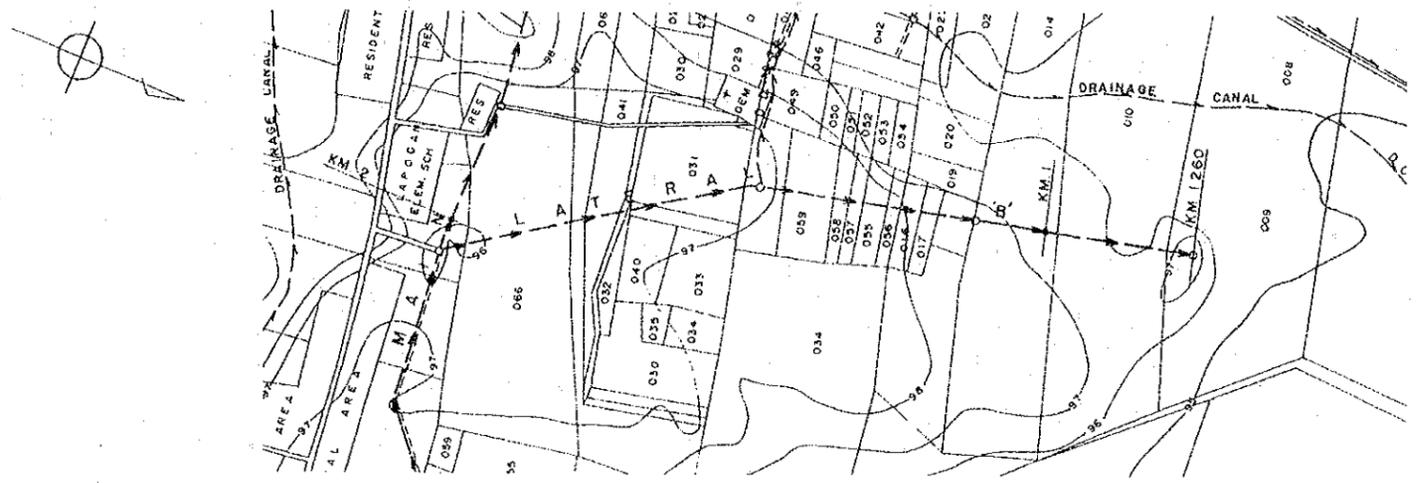
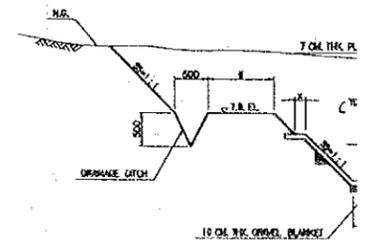
DWG
No. B-8

JAPAN INTERNATIONAL COOPERATION AGENCY

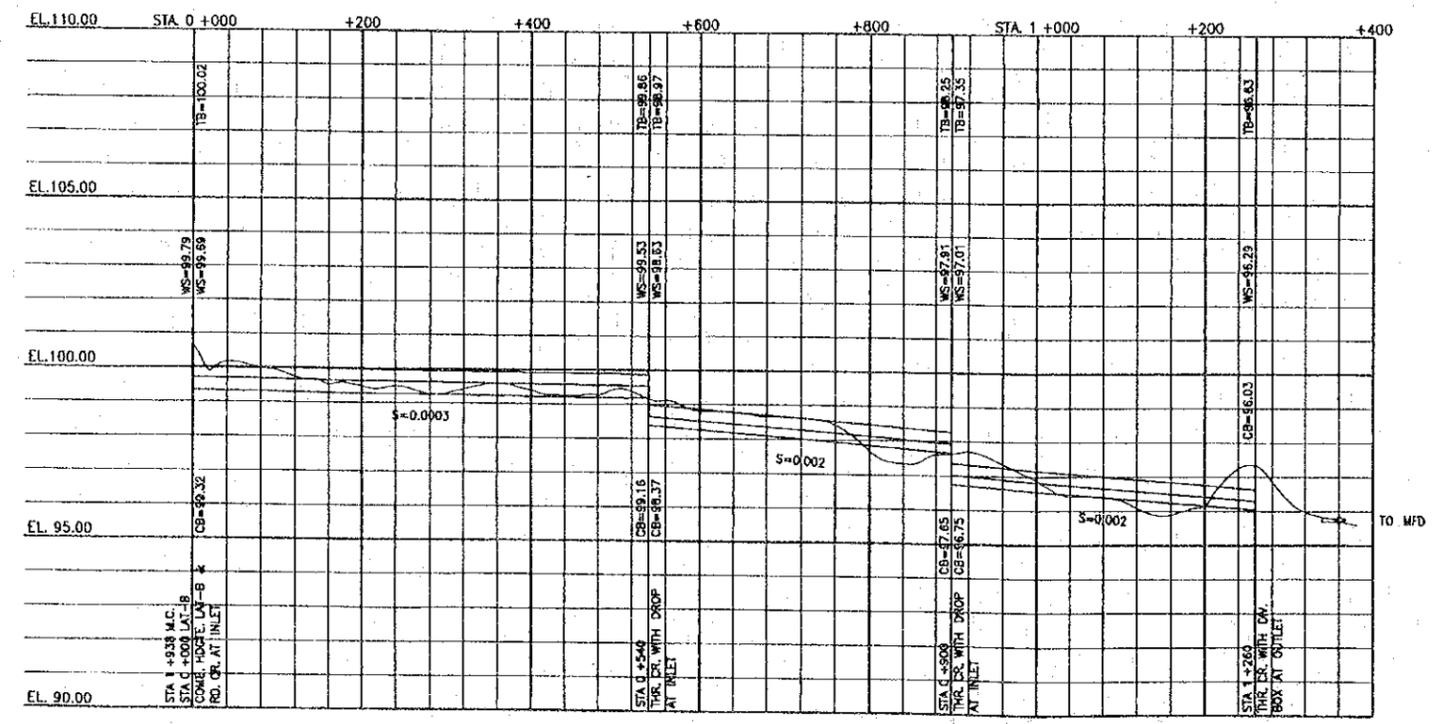
TYPICAL
(STA. 0 +000 ~ ST. 1 +260)



CUT



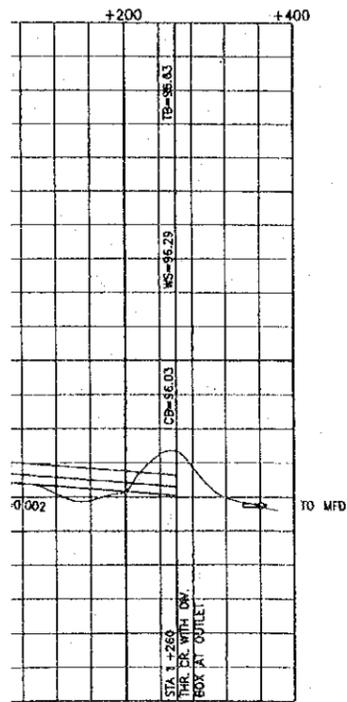
PLAN
SCALE: B



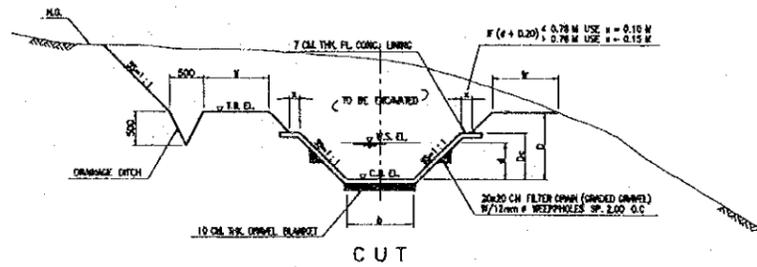
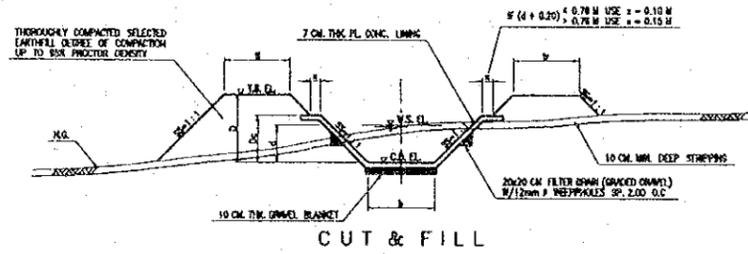
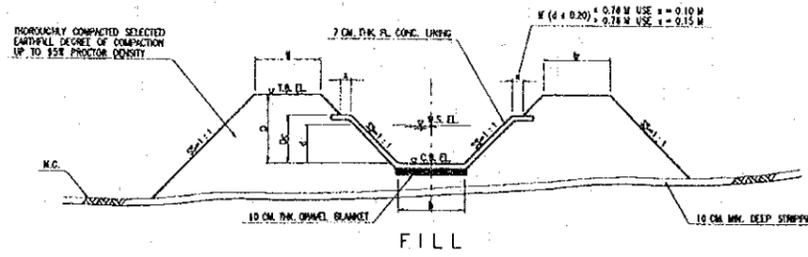
PROFILE OF LATERAL 'B'
V = SCALE: A H = SCALE: B

LINE	PI TO PI	AZIMUTH	DISTANCE (m)	I	L.C.	R.	T	e	STA. P.C.	STA. V
0-1		147 - 28	540.00	20 - 00	3.49	10	1.76	0.154	0 +538.24	0 +540
1-2		168 - 28	720.00							1 +260

FROM STATION	TO STATION	Q	V	A	b	d	D	Dc	r	U/v	S	SS	n
0 +000	0 +540	0.168	0.428	0.393	0.70	0.37	0.70	0.55	0.228	0.70	0.0003	1:1	0.015
0 +540	1 +260	0.168	0.671	0.193	0.50	0.26	0.60	0.45	0.158	0.60	0.002	1:1	0.015



TYPICAL CANAL SECTION
(STA. 0 +000 ~ STA. 1 +260) NO TO SCALE

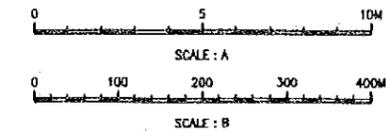


CURVE ELEMENTS

LINE PI TO PI	AZIMUTH °	DISTANCE (m)	I	L.C.	R.	T	e	STA. P.C.	STA. V	STA. P.T.
0 - 1	147 - 28	540.00	20 - 00	3.49	10	1.76	0.154	0 +538.24	0 +540	0 +541.73
1 - 2	158 - 28	720.00							1 +260	

CANAL ELEMENTS

FROM STATION	TO STATION	Q m ³ /s	V m/s	A sq.m	b m	d m	D m	Dc m	r m	U/Ur m	S	SS	n
0 +000	0 +540	0.168	0.428	0.393	0.70	0.37	0.70	0.55	0.228	0.70	0.0003	1 : 1	0.015
0 +540	1 +260	0.168	0.671	0.193	0.50	0.26	0.60	0.45	0.158	0.60	0.002	1 : 1	0.015

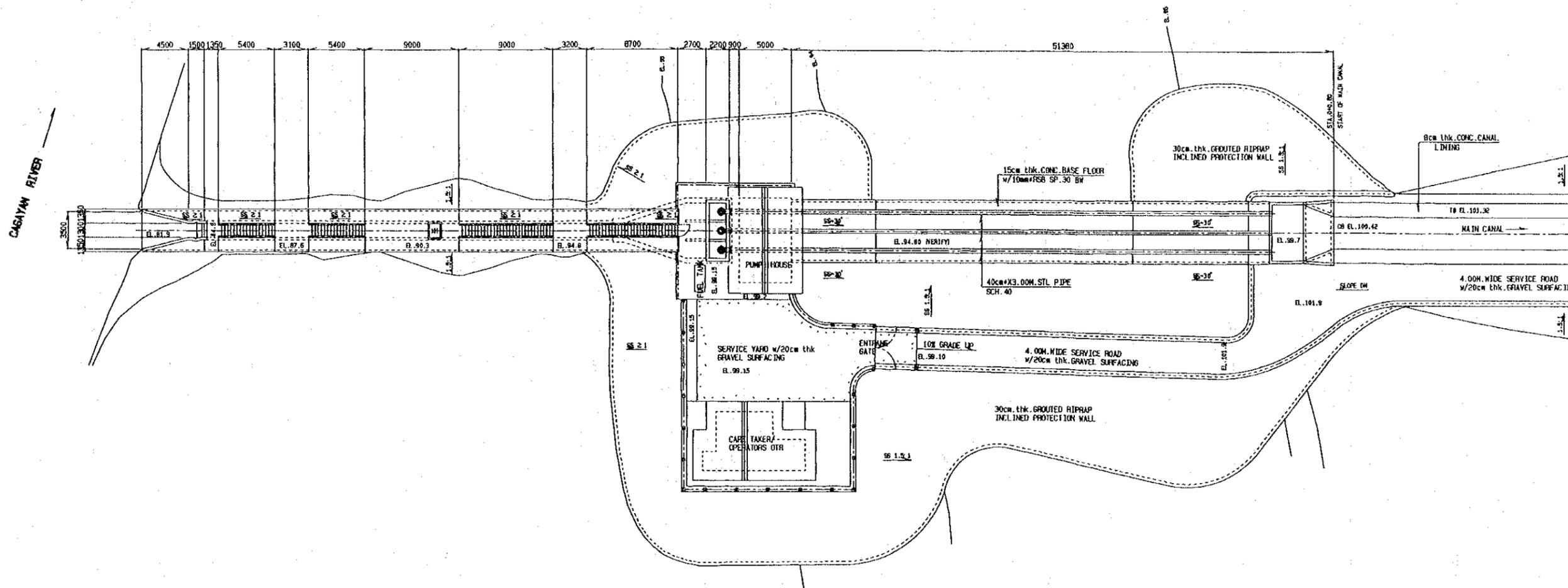


THE REPUBLIC OF THE PHILIPPINES
THE STUDY ON THE DEVELOPMENT OF ARCS
IN THE PROVINCE OF ISABELA

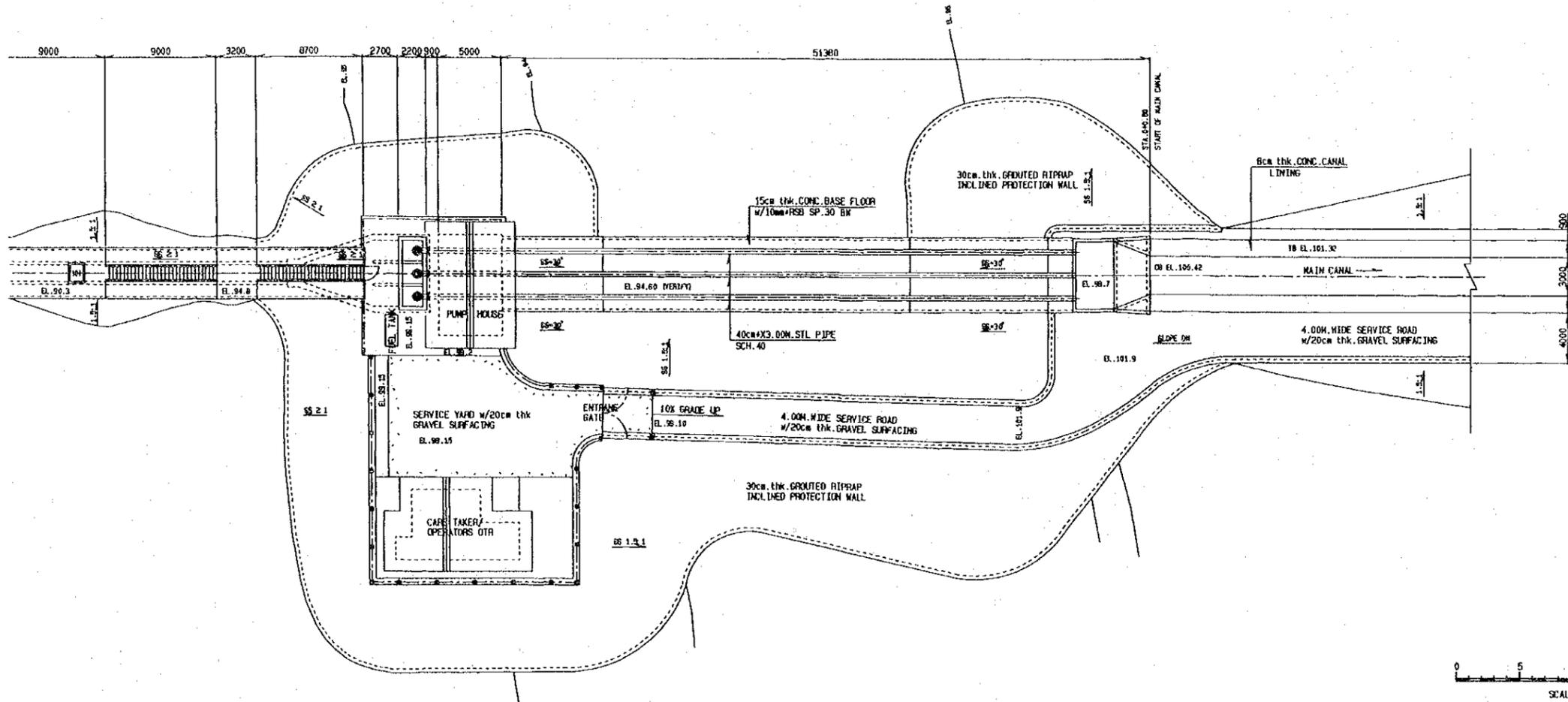
LAPOGAN CPIP
PLAN & PROFILE OF LAT - B
STA 0 + 000 ~ STA 1 + 260

DWG
No. B- 9

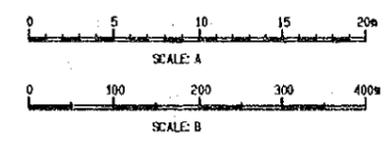
JAPAN INTERNATIONAL COOPERATION AGENCY



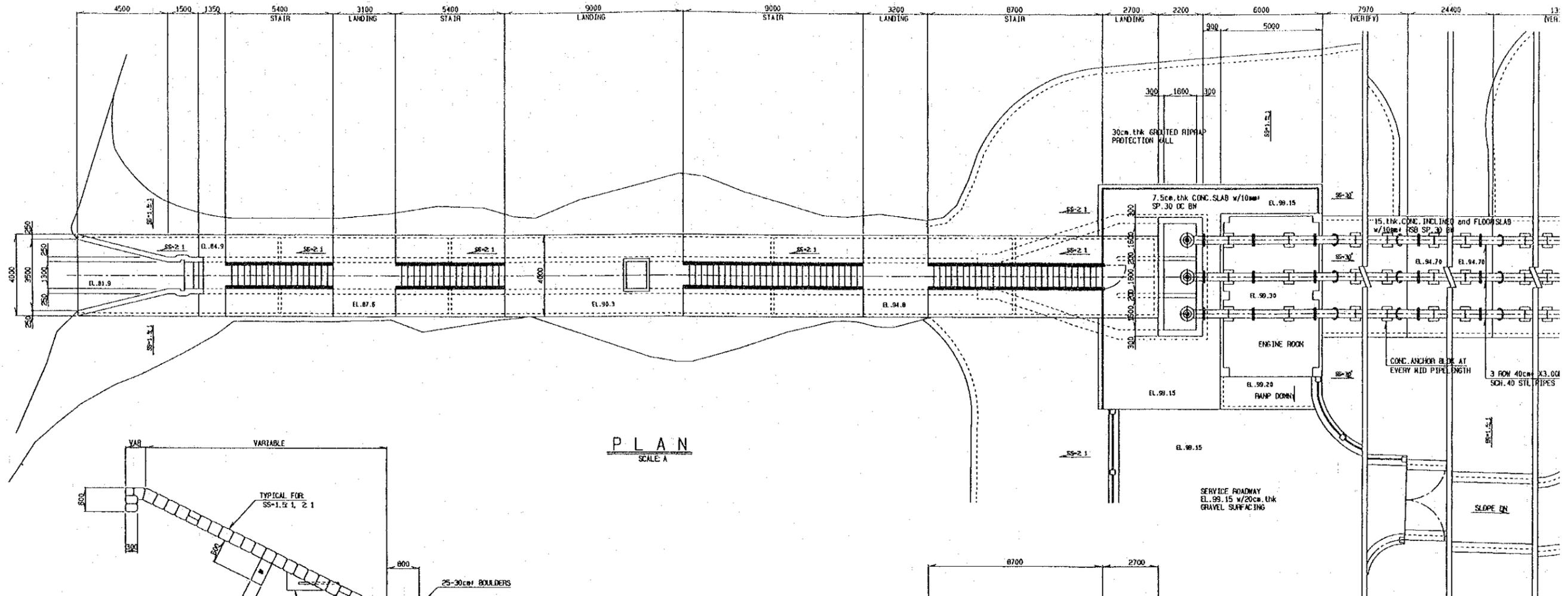
DEVELOPMENT PLAN
SCALE: A



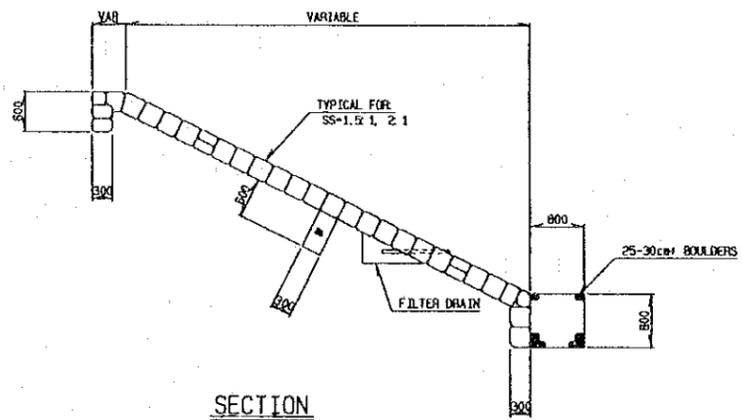
DEVELOPMENT PLAN
SCALE: A



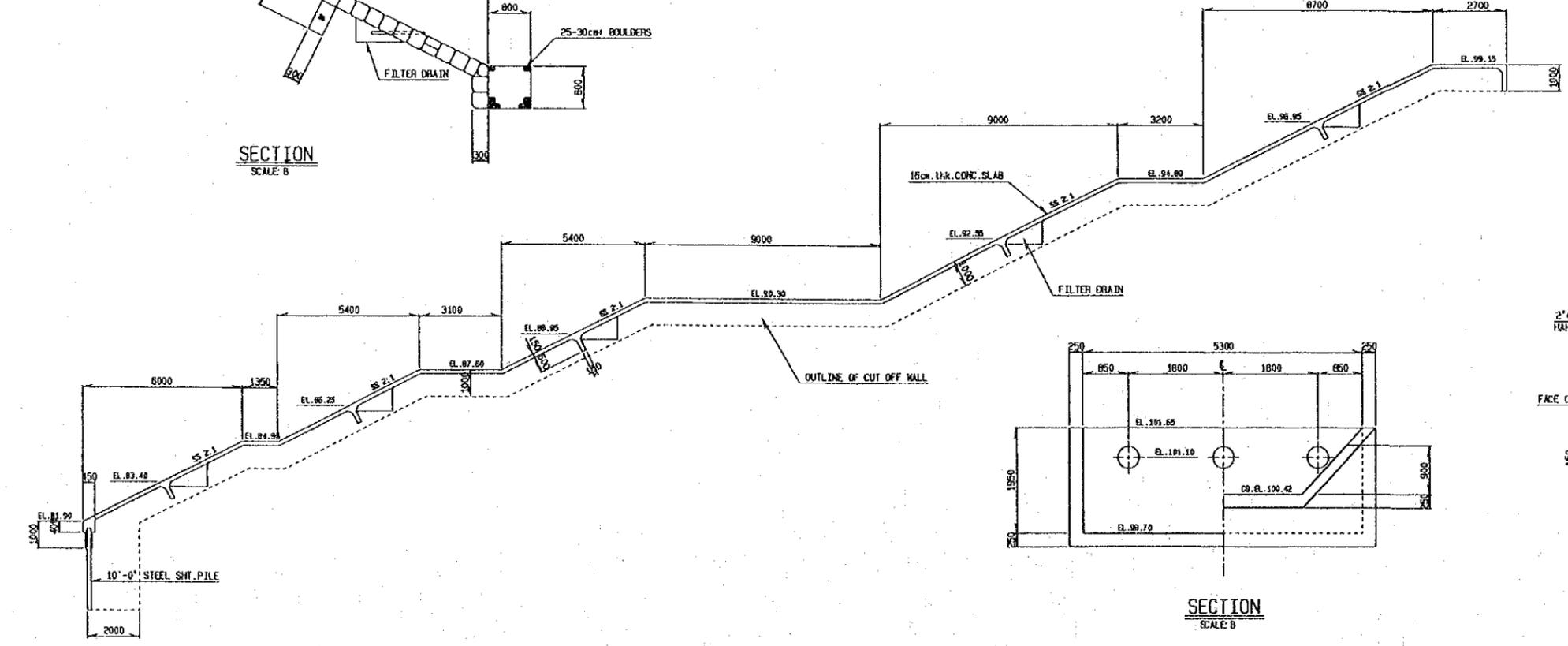
THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA	
LAPOGAN CPIP	DWG
PUMPING STATION (1)	No. B-10
JAPAN INTERNATIONAL COOPERATION AGENCY	



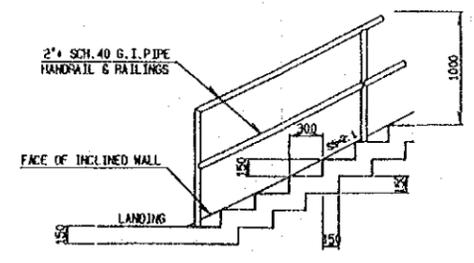
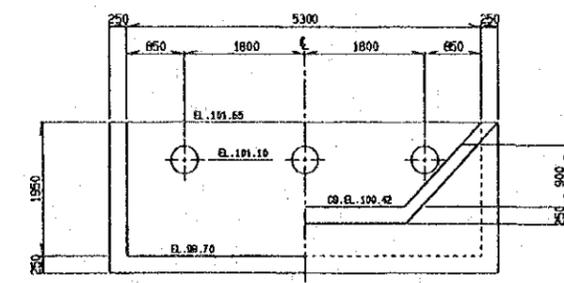
PLAN
SCALE A



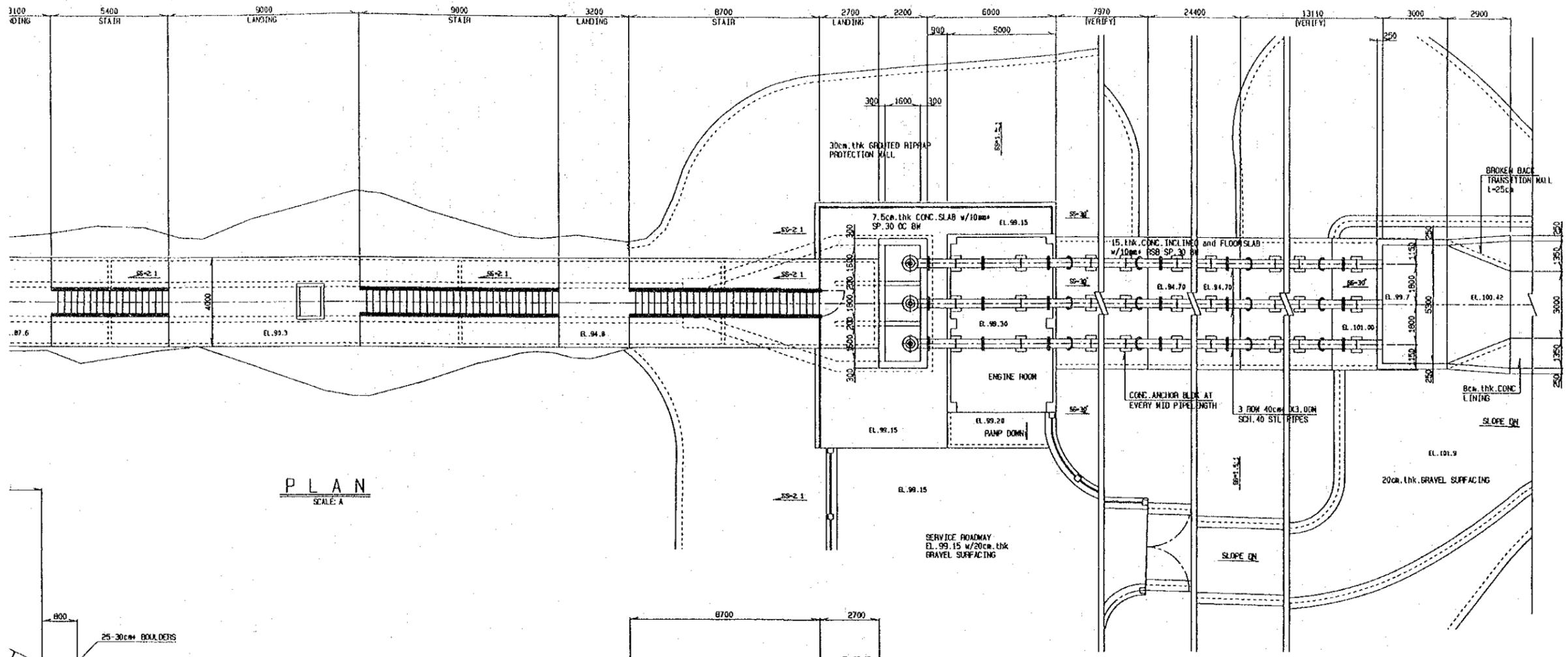
SECTION
SCALE B



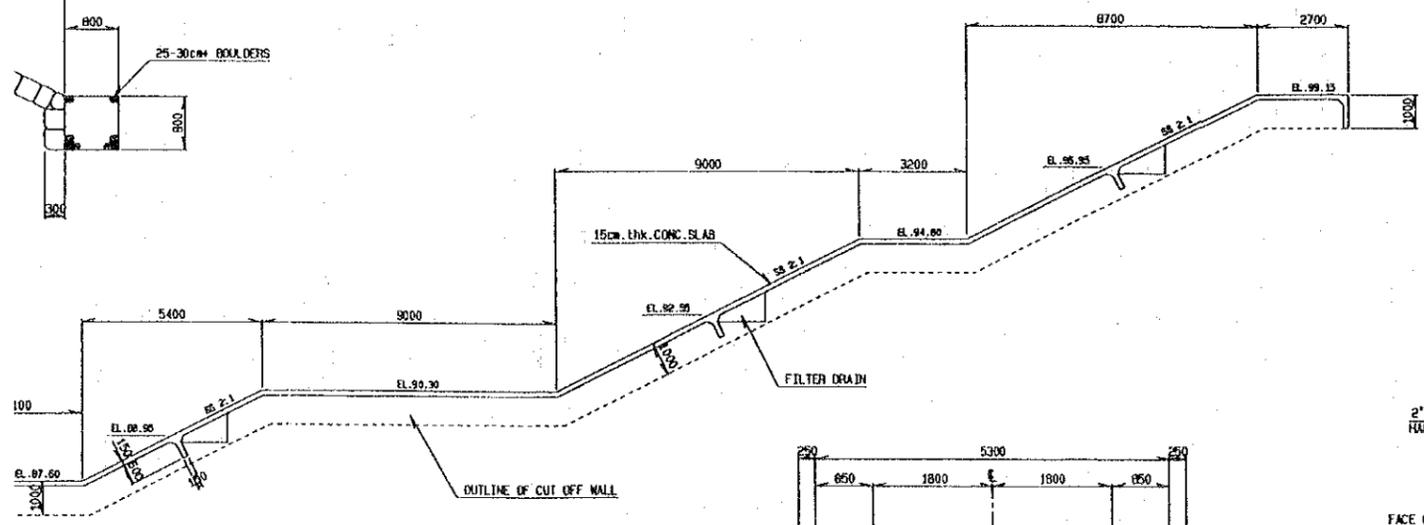
SECTION
SCALE B



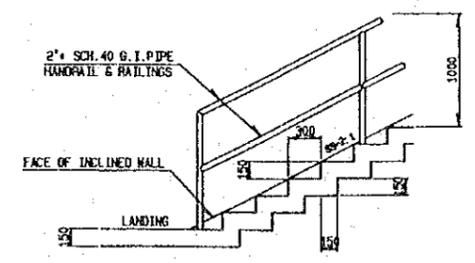
DETAIL
SCALE C



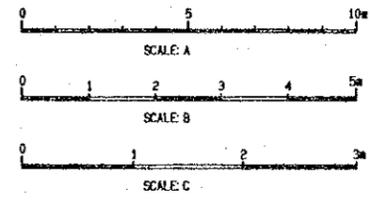
PLAN
SCALE: A



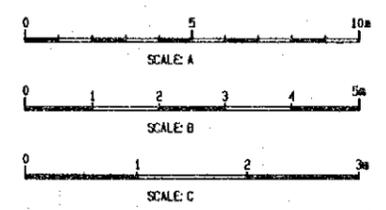
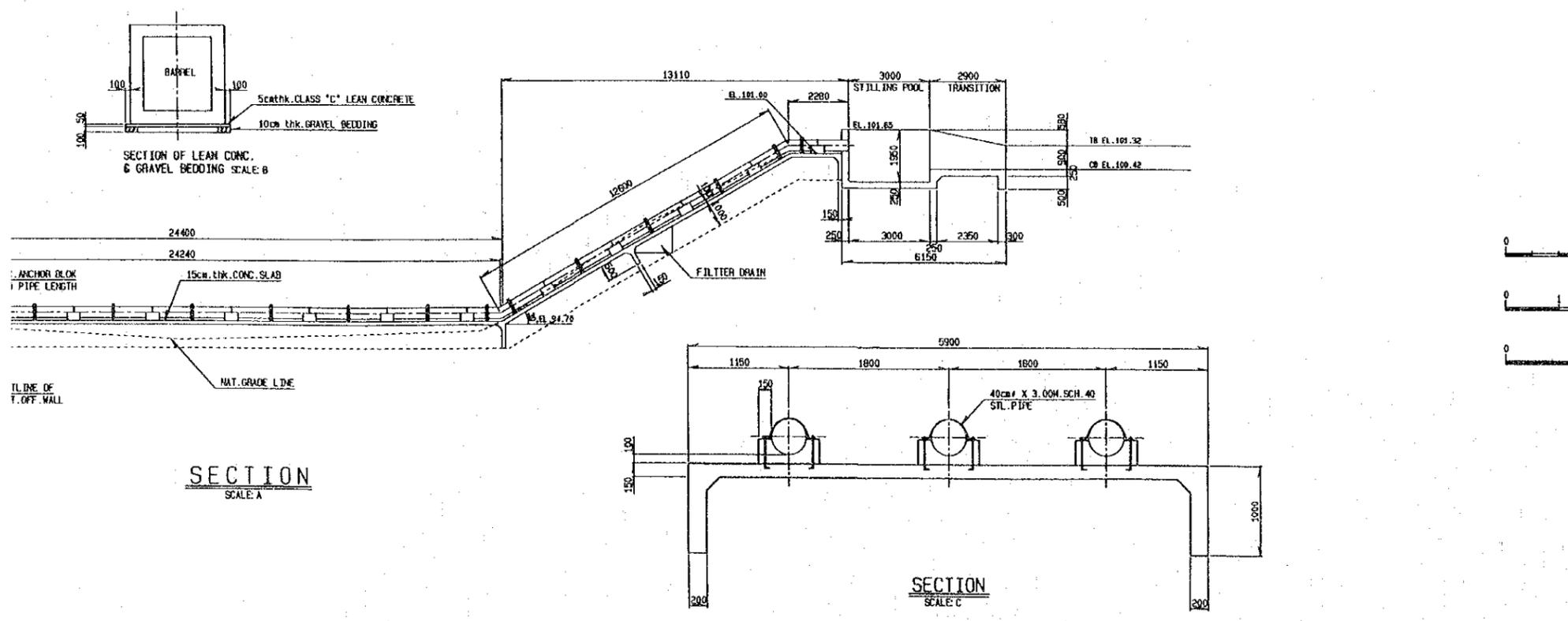
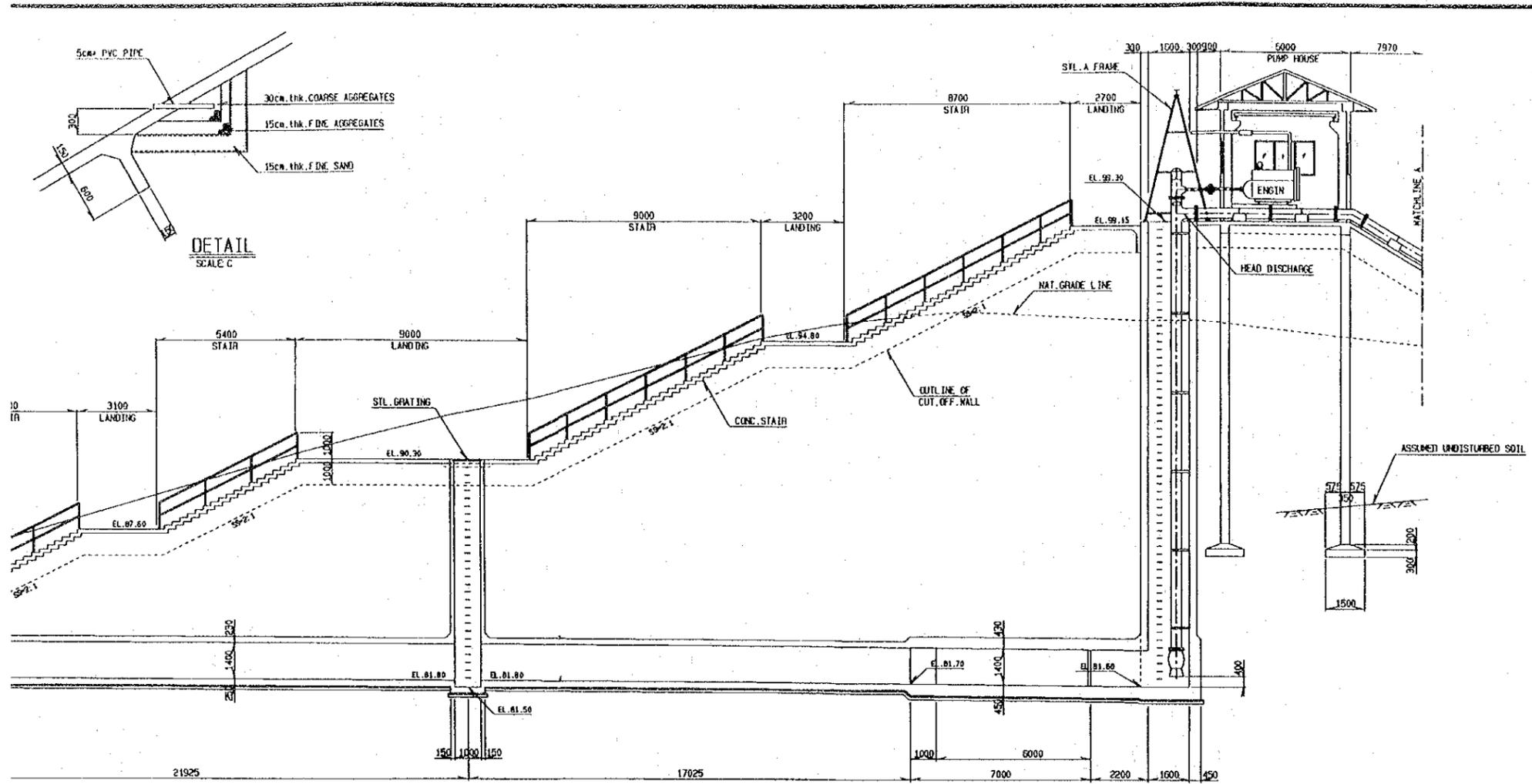
SECTION
SCALE: B



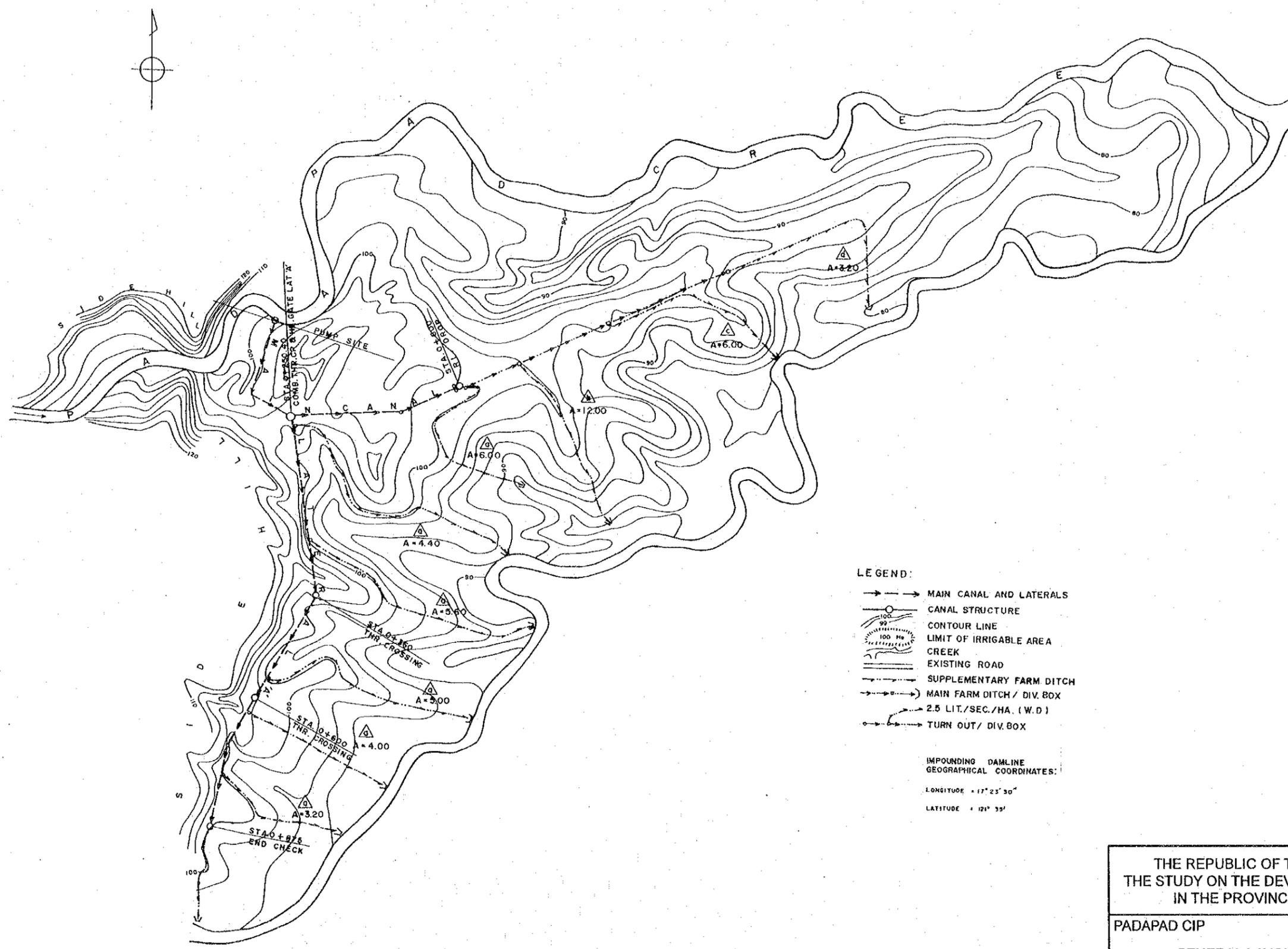
DETAIL
SCALE: C



THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA	
LAPOGAN CPIP	DWG
PUMPING STATION (2)	No. B-11
JAPAN INTERNATIONAL COOPERATION AGENCY	



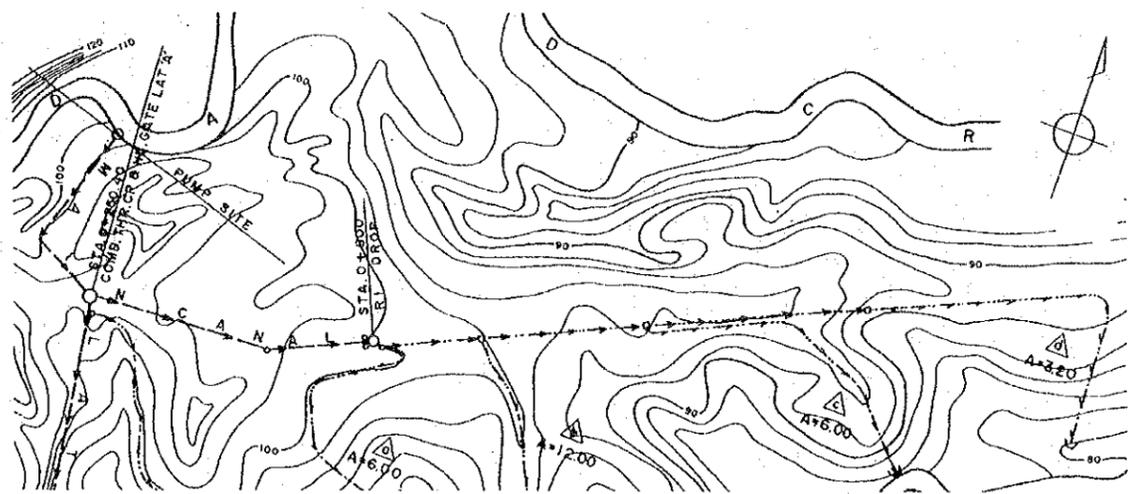
THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA	
LAPOGAN CPIP	DWG
PUMPING STATION (3)	No. B-12
JAPAN INTERNATIONAL COOPERATION AGENCY	



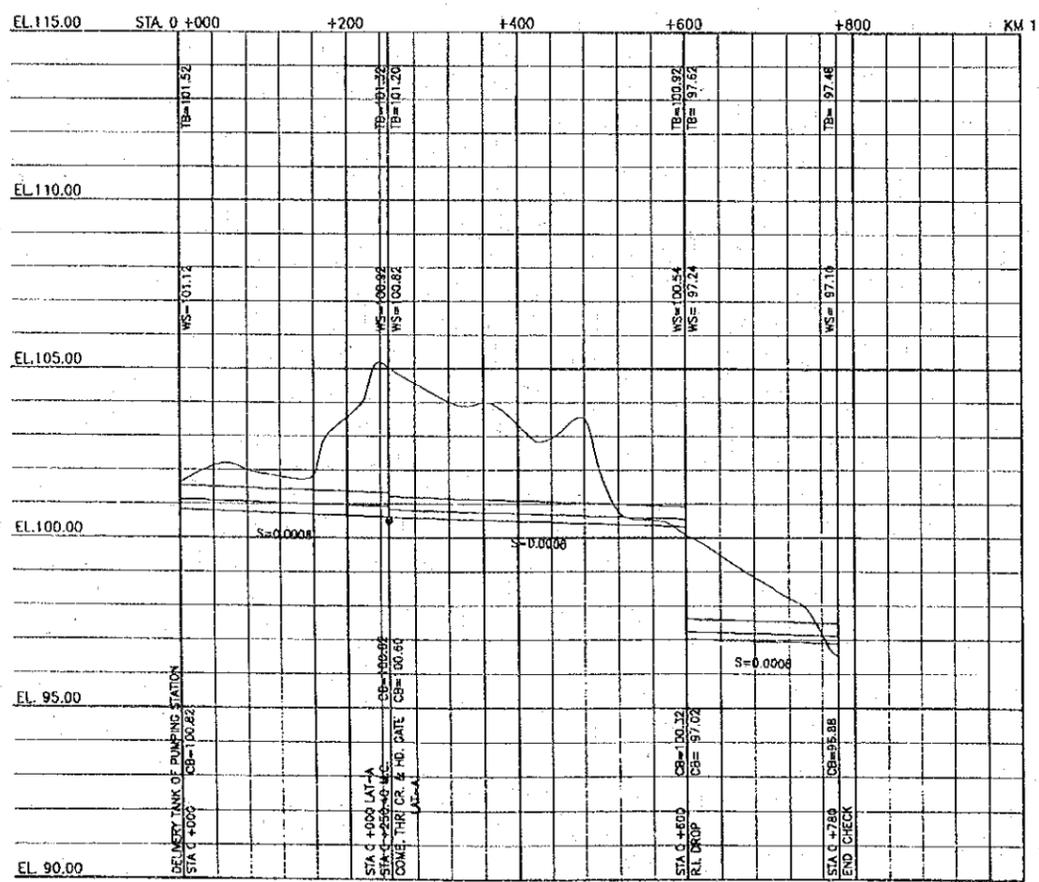
- LEGEND:**
- → → MAIN CANAL AND LATERALS
 - CANAL STRUCTURE
 - CONTOUR LINE
 - LIMIT OF IRRIGABLE AREA
 - ~ CREEK
 - EXISTING ROAD
 - SUPPLEMENTARY FARM DITCH
 - → → MAIN FARM DITCH / DIV. BOX
 - → → 2.5 LIT./SEC./HA. (W.D)
 - → → TURN OUT/ DIV. BOX

IMPOUNDING DAMLINE
 GEOGRAPHICAL COORDINATES:
 LONGITUDE = 117° 23' 30"
 LATITUDE = 121° 33'

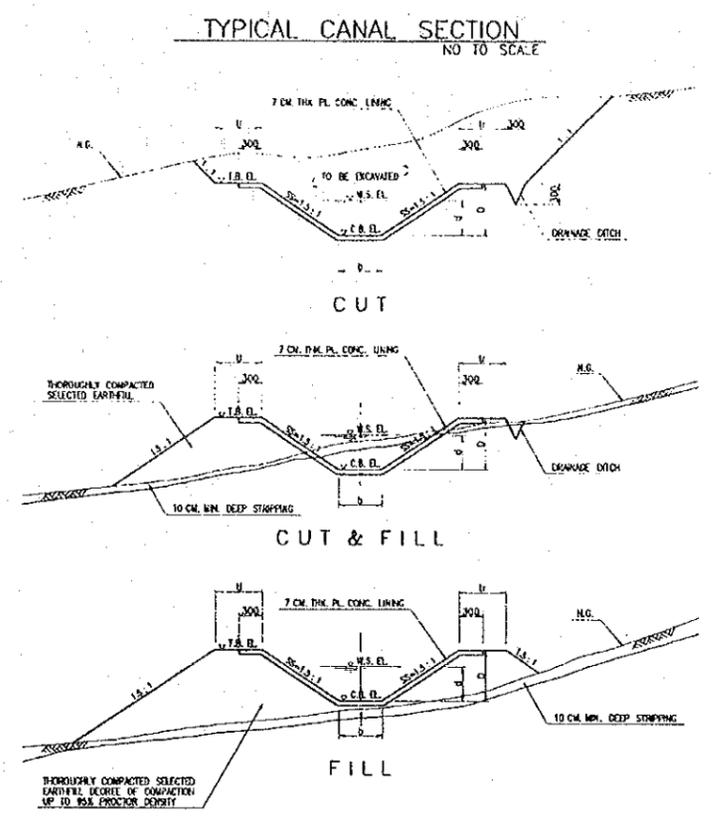
THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA	
PADAPAD CIP GENERAL LAYOUT	DWG No. B- 13
JAPAN INTERNATIONAL COOPERATION AGENCY	



PLAN
SCALE:



PROFILE OF MAIN CANAL

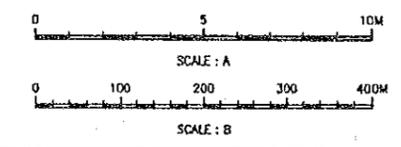


CURVE ELEMENTS

LINE PI TO PI	AZIMUTH	DISTANCE (m)	I	L.C.	R.	T	e	STA. P.C.	STA. V	STA. P.T.
0-1	18-00	160.00	82-36	24.51	17	14.93	5.63	0+145.07	0+160	0+169.58
1-2	295-24	90.40	28-30	8.46	17	4.32	0.54	0+246.08	0+250.40	0+254.54
2-3	266-54	224.70	21-53	4.97	13	2.51	0.24	0+472.59	0+475.10	0+477.56
3-4	245-01	304.90							0+780	

CANAL ELEMENTS

FROM STATION	TO STATION	Q m ³ /s	V m/s	A m ²	b m	d m	D m	r m	B/tr	S	SS	n
0+000	0+250.40	0.110	0.370	0.300	0.60	0.30	0.70	0.187	0.60	0.0008	1.5:1	0.025
0+250.40	0+780	0.055	0.305	0.180	0.50	0.22	0.60	0.140	0.60	0.0008	1.5:1	0.025



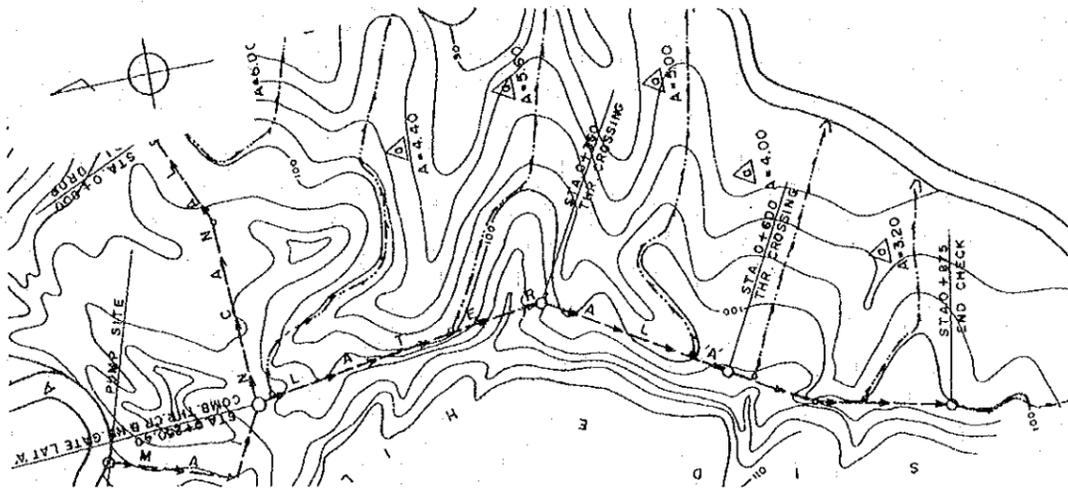
THE REPUBLIC OF THE PHILIPPINES
THE STUDY ON THE DEVELOPMENT OF ARCS
IN THE PROVINCE OF ISABELA

PADAPAD CIP

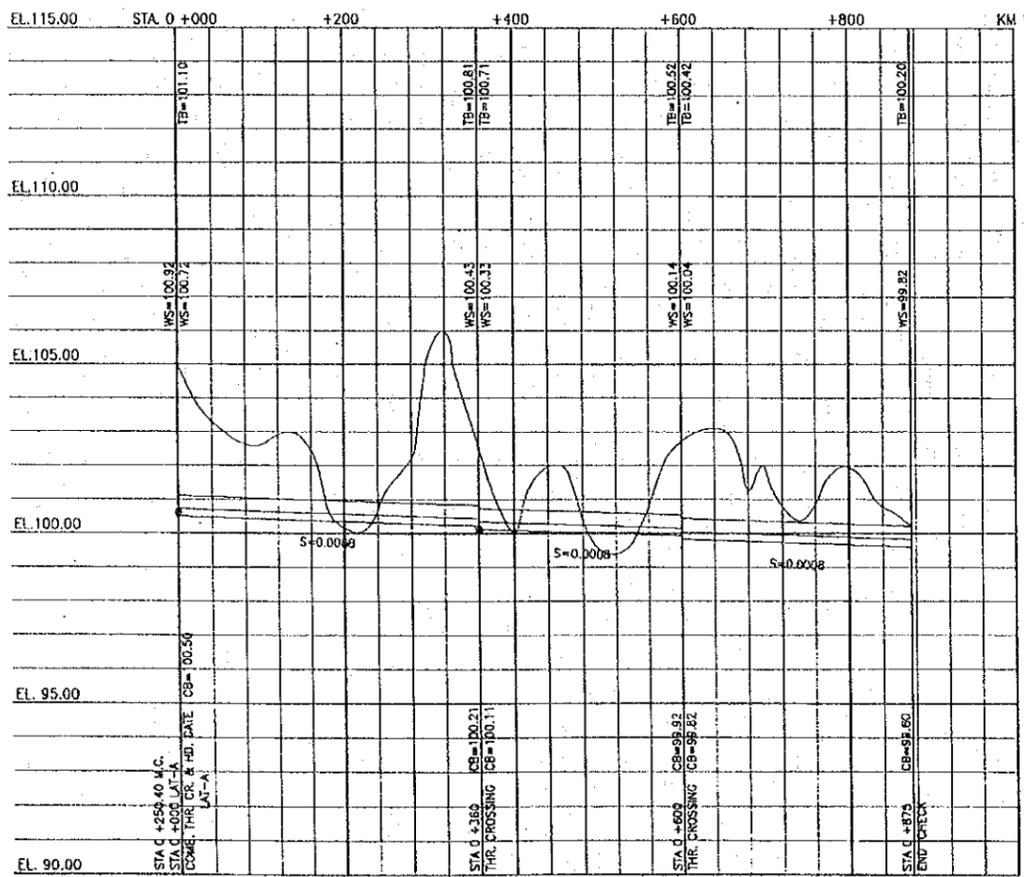
PLAN & PROFILE MAIN CANAL

DWG
No. B-14

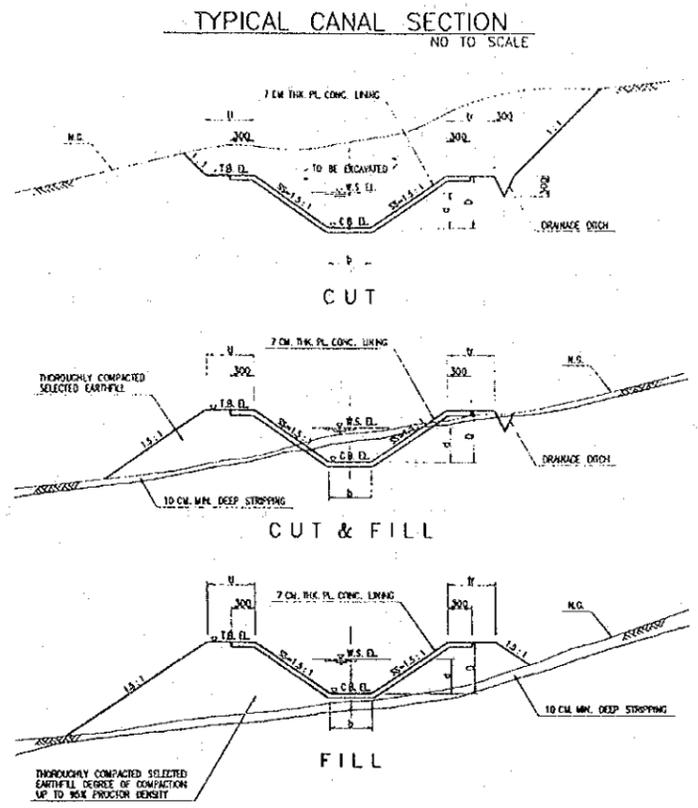
JAPAN INTERNATIONAL COOPERATION AGENCY



PLAN
SCALE : B



PROFILE OF LATERAL 'A'
V = SCALE : A H = SCALE : B

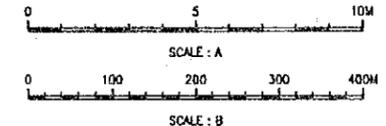


CURVE ELEMENTS

LINE PI TO P1	AZIMUTH	DISTANCE (m)	l	L.C.	R.	T	e	STA. P.C.	STA. V	STA. P.T.
0 - 1	352 - 36	360.00	37 - 17	5.21	8	2.70	0.44	0 + 357.30	0 + 360	0 + 362.51
1 - 2	29 - 53	345.00	19 - 38	2.74	8	1.38	0.12	0 + 703.62	0 + 705	0 + 708.38
2 - 3	10 - 15	170.00							0 + 875	

CANAL ELEMENTS

FROM STATION	TO STATION	Q	V	A	b	d	D	r	U/tr	S	SS	n
0 + 000	0 + 875	0.055	0.305	0.180	0.50	0.22	0.60	0.140	0.60	0.0008	1.5 : 1	0.025



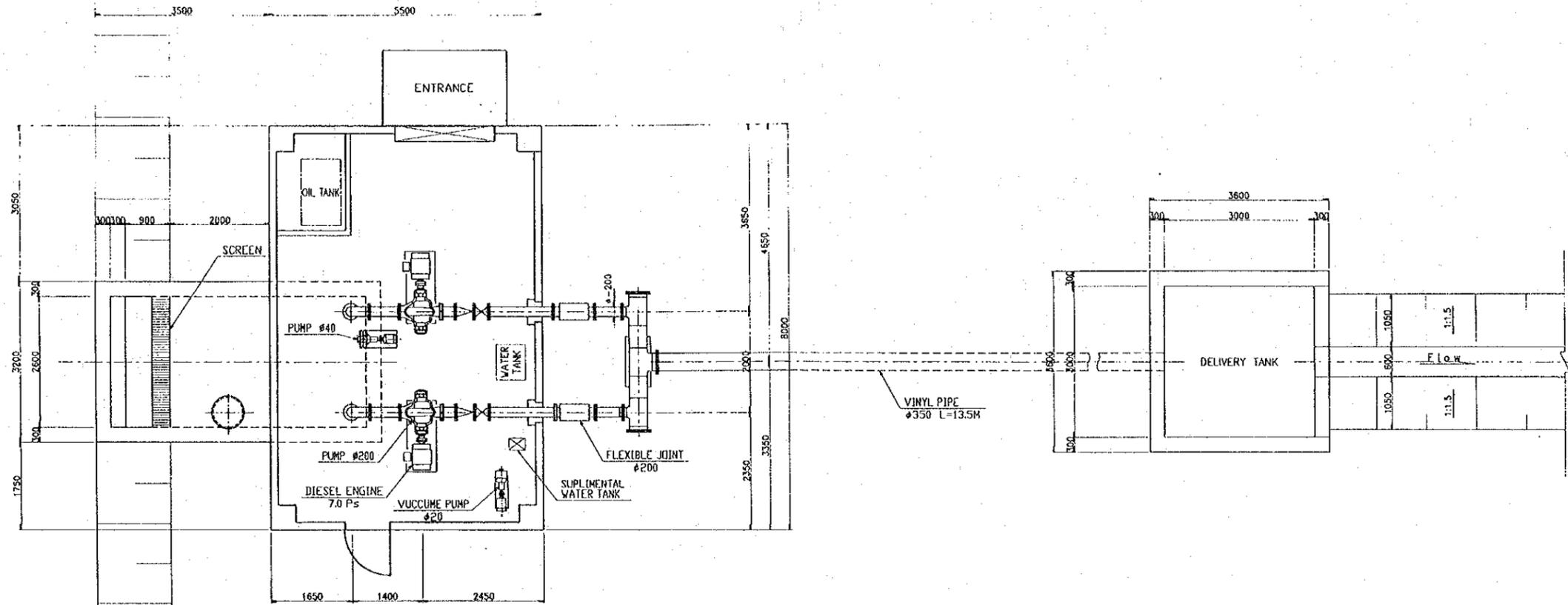
THE REPUBLIC OF THE PHILIPPINES
THE STUDY ON THE DEVELOPMENT OF ARCS
IN THE PROVINCE OF ISABELA

PADAPAD CIP	DWG
PLAN & PROFILE LATERAL CANAL	No. B-15

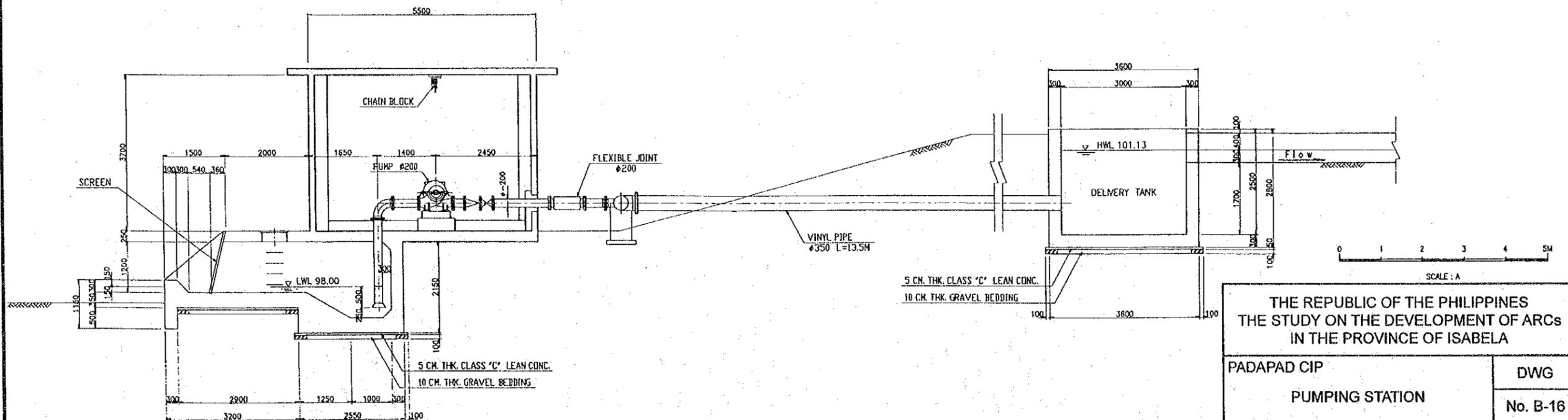
JAPAN INTERNATIONAL COOPERATION AGENCY

PUMPING STATION WORKS
SCALE : A

PLAN

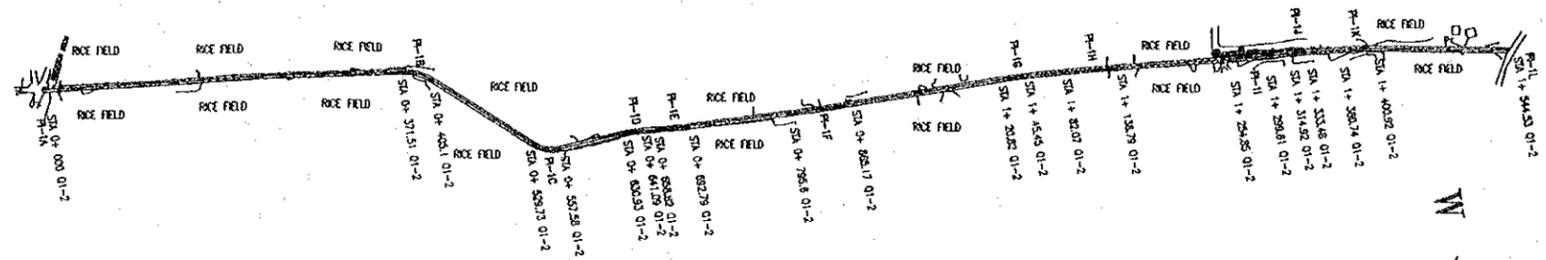


SECTION

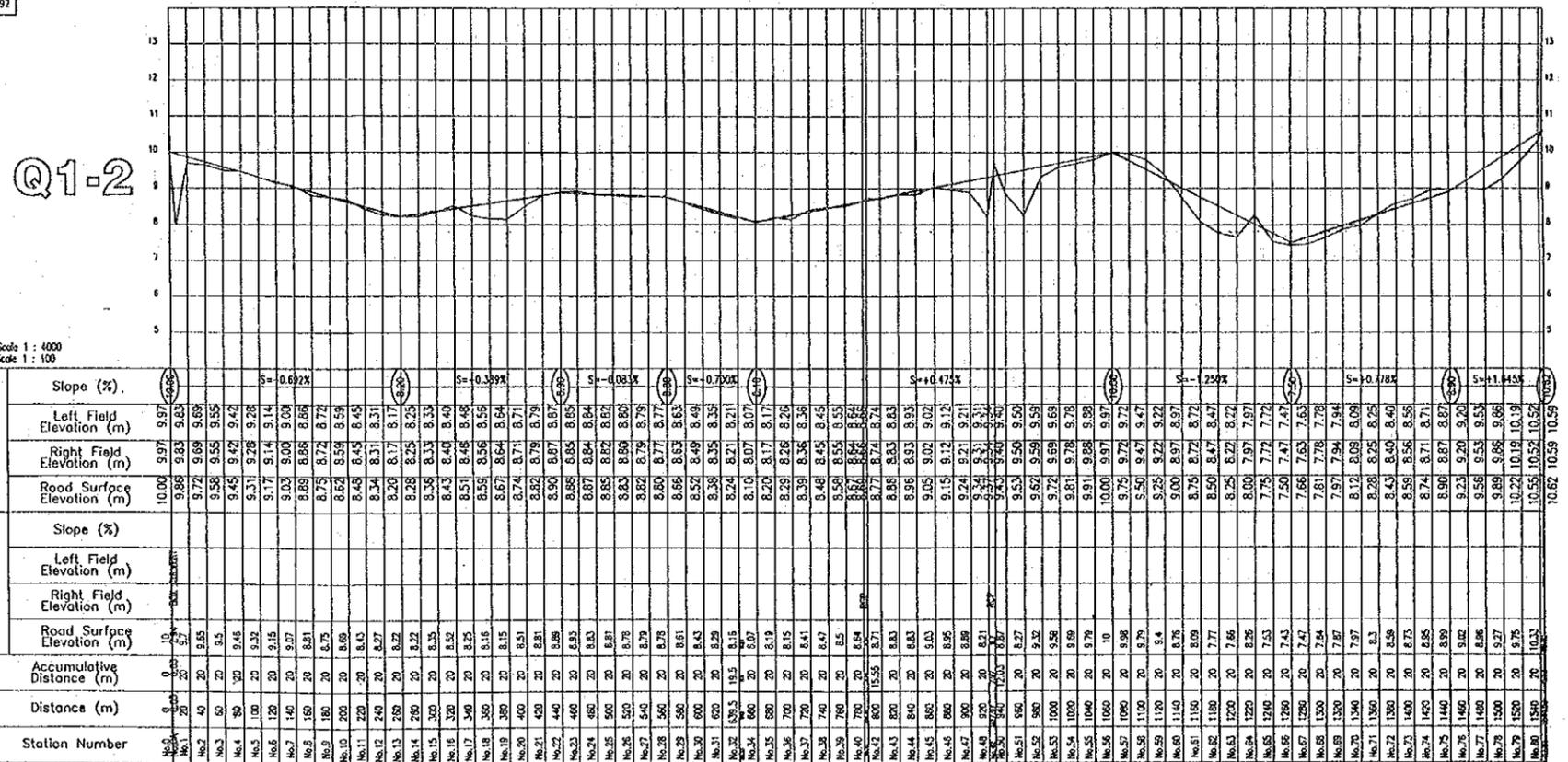


THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA	
PADAPAD CIP PUMPING STATION	DWG No. B-16
JAPAN INTERNATIONAL COOPERATION AGENCY	

PI#	COORDINATES		DISL.	BEARING	T	I	R	Lc	E	D	PC	PT
	NORTHING	EASTING										
ROAD-1												
PI-1A	20000	20000										
PI-1B	20386.601	20041.412	388.81	N 6-7 E	17.3	33-57	58.7	33.59	2.58	20.21	Sta. 0+ 371.51	Sta. 0+ 405.1
PI-1C	20506.465	20142.192	156.6	N 40-3 E	14.66	44-18	38.02	27.85	2.87	31.82	Sta. 0+ 529.73	Sta. 0+ 557.58
PI-1D	20599.309	20135.305	93.1	N 4-15 W	5.09	9-0	64.68	10.16	0.2	17.72	Sta. 0+ 630.93	Sta. 0+ 641.09
PI-1E	20638.9757	20138.731	39.81	N 4-56 E	16.99	3-38	534.83	33.97	0.27	2.14	Sta. 0+ 658.82	Sta. 0+ 692.79
PI-1F	20793.502	20143.074	154.50	N 1-37 E	34.79	1-57	2036.77	89.56	0.3	0.56	Sta. 0+ 795.6	Sta. 0+ 865.17
PI-1G	20996.254	20141.846	202.78	N 0-21 W	12.32	3-43	360.17	24.62	0.2	3.01	Sta. 1+ 208.2	Sta. 1+ 45.45
PI-1H	21073.423	20146.382	77.3	N 3-22 E	28.36	1-37	2009.5	56.71	0.2	0.57	Sta. 1+ 82.07	Sta. 1+ 138.79
PI-1I	21239.5994	20160.865	166.81	N 4-59 E	22.39	2-49	911.72	44.76	0.27	1.26	Sta. 1+ 254.85	Sta. 1+ 299.61
PI-1J	21266.53	20162.847	45.97	N 2-25 E	9.28	2-28	431.55	18.56	0.1	2.86	Sta. 1+ 314.92	Sta. 1+ 333.48
PI-1K	21352.9286	20168.4613	66.64	N 4-50 E	10.1	6-55	167.35	20.18	0.3	6.85	Sta. 1+ 380.74	Sta. 1+ 400.92
PI-1L	21594.355	20194.822	153.71	N 9-54 E								



TOTAL DISTANCE OF Q1-2=1,544.53 M.



SURVEYED BY:
MEGA PHILIPPINES, INC.
 Block 3, Lot 14, Orchids cor. Rocas Streets, West, Fairview, Quezon City
 Tel. Nos. 936-06-06 937-68-95 937-66-78
 Loc. 1 to 12 Direct Line 936-71-18
 Fax (632) 936-27-61

GEODETIC ENGINEER:
NICANOR VALENCIA ANDAYON
 REG. NO. 3532 DATE: 03-20-87
 LIC. NO. 7953671 DATE: 01-04-24

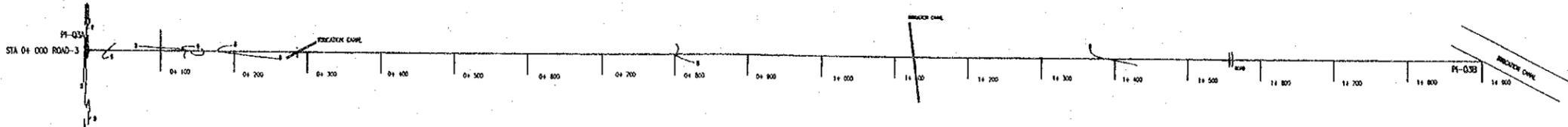
PROJECT TITLE:
FARM TO MARKET ROADS
 THE DEVELOPMENT OF AGRARIAN REFORM COMMUNITIES (ARC'S) IN THE PROVINCE OF ISABELA
 IN THE REPUBLIC OF THE PHILIPPINES

DATE SURVEYED:
 August 14-17, 2000
LOCATION:
 Ba. Quiling, Roxas, Isabela

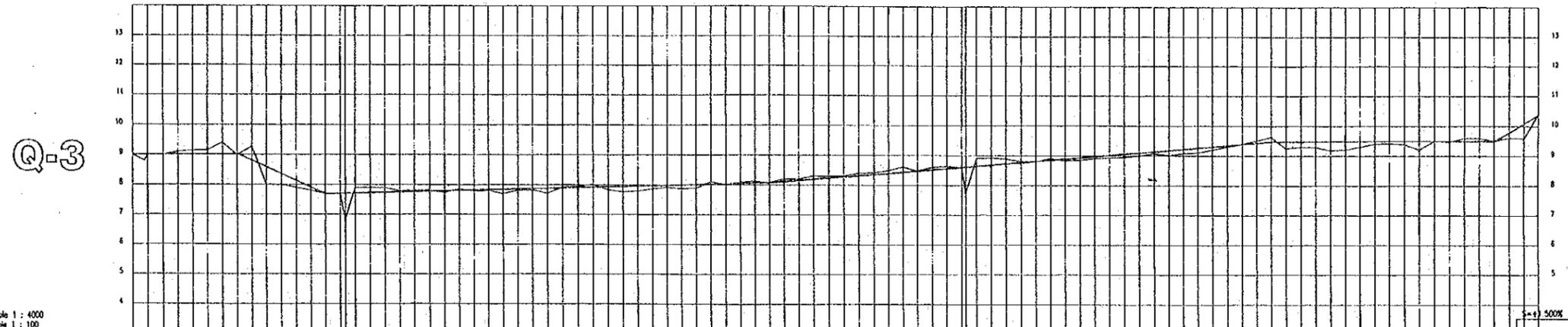
FILE NAME:
 Q1-2
CAD BY:
 TALAHIB

THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA
 Road Profile (Q-1, Q-2)
 DWG
 IB-17
 JAPAN INTERNATIONAL COOPERATION AGENCY

P.L.#	COORDINATES		DST.	BEARING	T	I	R	L	E	D	PC	PI
	NORTHING	EASTING										
Q-3												
PI-03A	20820.76	20142.96										
PI-03B	2080.89	18242.99	1900	N 89°41'W								



TOTAL DISTANCE OF Q3=1,900 M.



Hor. Scale 1 : 4000
Ver. Scale 1 : 100

Station Number	Distance (m)	Accumulative Distance (m)	Road Surface Elevation (m)	Propose			Actual		
				Slope (%)	Left Field Elevation (m)	Right Field Elevation (m)	Slope (%)	Left Field Elevation (m)	Right Field Elevation (m)
No.0	0	0	9.05	9.02	9.02	9.02	9.05	9.05	
No.1	20	20	9.05	9.02	9.02	9.02	9.05	9.05	
No.2	40	40	9.05	9.02	9.02	9.02	9.05	9.05	
No.3	60	60	9.05	9.02	9.02	9.02	9.05	9.05	
No.4	80	80	9.05	9.02	9.02	9.02	9.05	9.05	
No.5	100	100	9.05	9.02	9.02	9.02	9.05	9.05	
No.6	120	120	9.05	9.02	9.02	9.02	9.05	9.05	
No.7	140	140	9.05	9.02	9.02	9.02	9.05	9.05	
No.8	160	160	9.05	9.02	9.02	9.02	9.05	9.05	
No.9	180	180	9.05	9.02	9.02	9.02	9.05	9.05	
No.10	200	200	9.05	9.02	9.02	9.02	9.05	9.05	
No.11	220	220	9.05	9.02	9.02	9.02	9.05	9.05	
No.12	240	240	9.05	9.02	9.02	9.02	9.05	9.05	
No.13	260	260	9.05	9.02	9.02	9.02	9.05	9.05	
No.14	280	280	9.05	9.02	9.02	9.02	9.05	9.05	
No.15	300	300	9.05	9.02	9.02	9.02	9.05	9.05	
No.16	320	320	9.05	9.02	9.02	9.02	9.05	9.05	
No.17	340	340	9.05	9.02	9.02	9.02	9.05	9.05	
No.18	360	360	9.05	9.02	9.02	9.02	9.05	9.05	
No.19	380	380	9.05	9.02	9.02	9.02	9.05	9.05	
No.20	400	400	9.05	9.02	9.02	9.02	9.05	9.05	
No.21	420	420	9.05	9.02	9.02	9.02	9.05	9.05	
No.22	440	440	9.05	9.02	9.02	9.02	9.05	9.05	
No.23	460	460	9.05	9.02	9.02	9.02	9.05	9.05	
No.24	480	480	9.05	9.02	9.02	9.02	9.05	9.05	
No.25	500	500	9.05	9.02	9.02	9.02	9.05	9.05	
No.26	520	520	9.05	9.02	9.02	9.02	9.05	9.05	
No.27	540	540	9.05	9.02	9.02	9.02	9.05	9.05	
No.28	560	560	9.05	9.02	9.02	9.02	9.05	9.05	
No.29	580	580	9.05	9.02	9.02	9.02	9.05	9.05	
No.30	600	600	9.05	9.02	9.02	9.02	9.05	9.05	
No.31	620	620	9.05	9.02	9.02	9.02	9.05	9.05	
No.32	640	640	9.05	9.02	9.02	9.02	9.05	9.05	
No.33	660	660	9.05	9.02	9.02	9.02	9.05	9.05	
No.34	680	680	9.05	9.02	9.02	9.02	9.05	9.05	
No.35	700	700	9.05	9.02	9.02	9.02	9.05	9.05	
No.36	720	720	9.05	9.02	9.02	9.02	9.05	9.05	
No.37	740	740	9.05	9.02	9.02	9.02	9.05	9.05	
No.38	760	760	9.05	9.02	9.02	9.02	9.05	9.05	
No.39	780	780	9.05	9.02	9.02	9.02	9.05	9.05	
No.40	800	800	9.05	9.02	9.02	9.02	9.05	9.05	
No.41	820	820	9.05	9.02	9.02	9.02	9.05	9.05	
No.42	840	840	9.05	9.02	9.02	9.02	9.05	9.05	
No.43	860	860	9.05	9.02	9.02	9.02	9.05	9.05	
No.44	880	880	9.05	9.02	9.02	9.02	9.05	9.05	
No.45	900	900	9.05	9.02	9.02	9.02	9.05	9.05	
No.46	920	920	9.05	9.02	9.02	9.02	9.05	9.05	
No.47	940	940	9.05	9.02	9.02	9.02	9.05	9.05	
No.48	960	960	9.05	9.02	9.02	9.02	9.05	9.05	
No.49	980	980	9.05	9.02	9.02	9.02	9.05	9.05	
No.50	1000	1000	9.05	9.02	9.02	9.02	9.05	9.05	
No.51	1020	1020	9.05	9.02	9.02	9.02	9.05	9.05	
No.52	1040	1040	9.05	9.02	9.02	9.02	9.05	9.05	
No.53	1060	1060	9.05	9.02	9.02	9.02	9.05	9.05	
No.54	1080	1080	9.05	9.02	9.02	9.02	9.05	9.05	
No.55	1100	1100	9.05	9.02	9.02	9.02	9.05	9.05	
No.56	1120	1120	9.05	9.02	9.02	9.02	9.05	9.05	
No.57	1140	1140	9.05	9.02	9.02	9.02	9.05	9.05	
No.58	1160	1160	9.05	9.02	9.02	9.02	9.05	9.05	
No.59	1180	1180	9.05	9.02	9.02	9.02	9.05	9.05	
No.60	1200	1200	9.05	9.02	9.02	9.02	9.05	9.05	
No.61	1220	1220	9.05	9.02	9.02	9.02	9.05	9.05	
No.62	1240	1240	9.05	9.02	9.02	9.02	9.05	9.05	
No.63	1260	1260	9.05	9.02	9.02	9.02	9.05	9.05	
No.64	1280	1280	9.05	9.02	9.02	9.02	9.05	9.05	
No.65	1300	1300	9.05	9.02	9.02	9.02	9.05	9.05	
No.66	1320	1320	9.05	9.02	9.02	9.02	9.05	9.05	
No.67	1340	1340	9.05	9.02	9.02	9.02	9.05	9.05	
No.68	1360	1360	9.05	9.02	9.02	9.02	9.05	9.05	
No.69	1380	1380	9.05	9.02	9.02	9.02	9.05	9.05	
No.70	1400	1400	9.05	9.02	9.02	9.02	9.05	9.05	
No.71	1420	1420	9.05	9.02	9.02	9.02	9.05	9.05	
No.72	1440	1440	9.05	9.02	9.02	9.02	9.05	9.05	
No.73	1460	1460	9.05	9.02	9.02	9.02	9.05	9.05	
No.74	1480	1480	9.05	9.02	9.02	9.02	9.05	9.05	
No.75	1500	1500	9.05	9.02	9.02	9.02	9.05	9.05	
No.76	1520	1520	9.05	9.02	9.02	9.02	9.05	9.05	
No.77	1540	1540	9.05	9.02	9.02	9.02	9.05	9.05	
No.78	1560	1560	9.05	9.02	9.02	9.02	9.05	9.05	
No.79	1580	1580	9.05	9.02	9.02	9.02	9.05	9.05	
No.80	1600	1600	9.05	9.02	9.02	9.02	9.05	9.05	
No.81	1620	1620	9.05	9.02	9.02	9.02	9.05	9.05	
No.82	1640	1640	9.05	9.02	9.02	9.02	9.05	9.05	
No.83	1660	1660	9.05	9.02	9.02	9.02	9.05	9.05	
No.84	1680	1680	9.05	9.02	9.02	9.02	9.05	9.05	
No.85	1700	1700	9.05	9.02	9.02	9.02	9.05	9.05	
No.86	1720	1720	9.05	9.02	9.02	9.02	9.05	9.05	
No.87	1740	1740	9.05	9.02	9.02	9.02	9.05	9.05	
No.88	1760	1760	9.05	9.02	9.02	9.02	9.05	9.05	
No.89	1780	1780	9.05	9.02	9.02	9.02	9.05	9.05	
No.90	1800	1800	9.05	9.02	9.02	9.02	9.05	9.05	
No.91	1820	1820	9.05	9.02	9.02	9.02	9.05	9.05	
No.92	1840	1840	9.05	9.02	9.02	9.02	9.05	9.05	
No.93	1860	1860	9.05	9.02	9.02	9.02	9.05	9.05	
No.94	1880	1880	9.05	9.02	9.02	9.02	9.05	9.05	
No.95	1900	1900	9.05	9.02	9.02	9.02	9.05	9.05	



SURVEYED BY:
MEGA PHILIPPINES, INC.
Block 3, Lot 14, Orchids cor. Roxas Streets, West,
Fairview, Quezon City
Tel. Nos. 938-06-06 937-66-96 937-66-78
Loc. 1 to 12 Direct Line 938-71-18
Fax (632) 938-27-61

GEODETIC ENGINEER:
NICANOR VALENCIA ANDAYON
REG. NO. 3532 DATE: 03-20-87
LIC. NO. 7953671 DATE: 01-04-2K

PROJECT TITLE:
FARM TO MARKET ROADS
THE DEVELOPMENT OF AGRARIAN REFORM COMMUNITIES (ARC'S)
IN THE PROVINCE OF ISABELA
IN THE REPUBLIC OF THE PHILIPPINES

DATE SURVEYED:
August 18-20, 2000
LOCATION:
Bo. Quiling, Roxas, Isabela

FILE NAME:
Q3
CAD BY:
TALAHIB

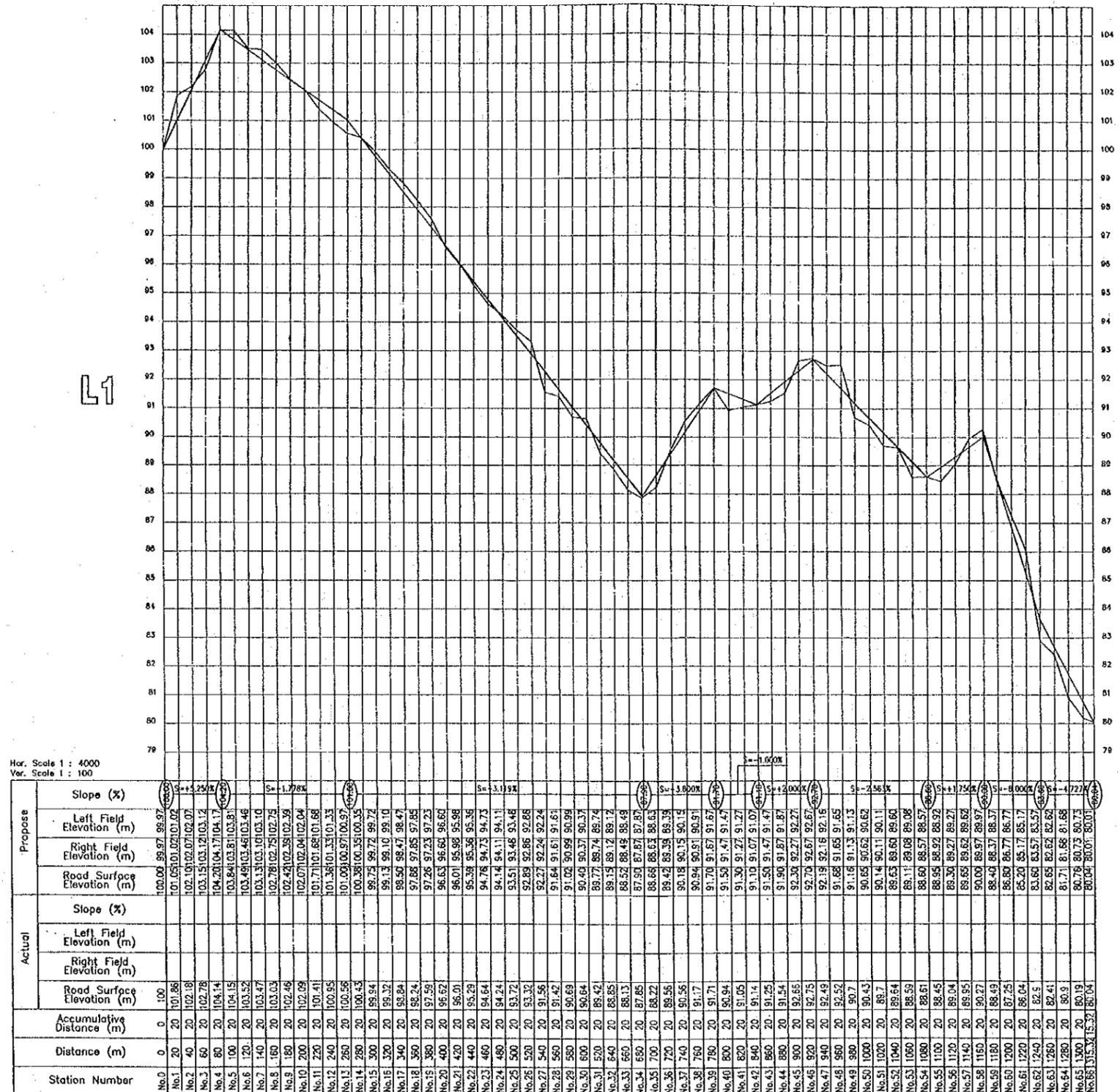
THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS
IN THE PROVINCE OF ISABELA

Road Profile (Q-3)

DWG
B-18

JAPAN INTERNATIONAL COOPERATION AGENCY

L1



Station Number	Propose			Actual			Accumulative Distance (m)	Distance (m)
	Slope (%)	Left Field Elevation (m)	Right Field Elevation (m)	Slope (%)	Left Field Elevation (m)	Right Field Elevation (m)		
No.0		100.00	99.97		100		0	0
No.1	2.25%	101.05	101.00		101.98		20	20
No.2		102.10	102.07		102.18		40	40
No.3		103.15	103.12		102.78		60	60
No.4		104.20	104.17		104.14		80	80
No.5		103.84	103.81		104.15		100	100
No.6		103.48	103.45		103.52		120	120
No.7		102.78	102.75		103.47		140	140
No.8		102.42	102.39		103.03		160	160
No.9		102.07	102.04		102.46		180	180
No.10		101.71	101.68		102.09		200	200
No.11		101.36	101.33		101.41		220	220
No.12		101.01	100.98		100.95		240	240
No.13		100.66	100.63		100.58		260	260
No.14		100.31	100.28		100.45		280	280
No.15		99.96	99.93		99.94		300	300
No.16		99.61	99.58		99.32		320	320
No.17		99.26	99.23		98.94		340	340
No.18		98.91	98.88		98.24		360	360
No.19		98.56	98.53		97.59		380	380
No.20		98.21	98.18		96.52		400	400
No.21		97.86	97.83		95.01		420	420
No.22		97.51	97.48		93.29		440	440
No.23		97.16	97.13		91.64		460	460
No.24		96.81	96.78		90.24		480	480
No.25		96.46	96.43		88.72		500	500
No.26		96.11	96.08		87.21		520	520
No.27		95.76	95.73		85.31		540	540
No.28		95.41	95.38		83.56		560	560
No.29		95.06	95.03		81.56		580	580
No.30		94.71	94.68		79.42		600	600
No.31		94.36	94.33		77.05		620	620
No.32		94.01	93.98		74.45		640	640
No.33		93.66	93.63		71.62		660	660
No.34		93.31	93.28		68.56		680	680
No.35		92.96	92.93		65.27		700	700
No.36		92.61	92.58		61.75		720	720
No.37		92.26	92.23		58.00		740	740
No.38		91.91	91.88		54.03		760	760
No.39		91.56	91.53		49.84		780	780
No.40		91.21	91.18		45.43		800	800
No.41		90.86	90.83		40.80		820	820
No.42		90.51	90.48		36.95		840	840
No.43		90.16	90.13		32.88		860	860
No.44		89.81	89.78		28.59		880	880
No.45		89.46	89.43		24.08		900	900
No.46		89.11	89.08		19.35		920	920
No.47		88.76	88.73		14.40		940	940
No.48		88.41	88.38		9.23		960	960
No.49		88.06	88.03		3.84		980	980
No.50		87.71	87.68		-1.77		1000	1000
No.51		87.36	87.33		-7.14		1020	1020
No.52		87.01	86.98		-12.27		1040	1040
No.53		86.66	86.63		-17.16		1060	1060
No.54		86.31	86.28		-21.81		1080	1080
No.55		85.96	85.93		-26.22		1100	1100
No.56		85.61	85.58		-30.39		1120	1120
No.57		85.26	85.23		-34.32		1140	1140
No.58		84.91	84.88		-38.01		1160	1160
No.59		84.56	84.53		-41.46		1180	1180
No.60		84.21	84.18		-44.67		1200	1200
No.61		83.86	83.83		-47.64		1220	1220
No.62		83.51	83.48		-50.37		1240	1240
No.63		83.16	83.13		-52.86		1260	1260
No.64		82.81	82.78		-55.11		1280	1280
No.65		82.46	82.43		-57.12		1300	1300
No.66		82.11	82.08		-58.89		1320	1320

SURVEYED BY:
MEGA PHILIPPINES, INC.
 Block 3, Lot 14, Orchids cor. Rocas Streets, West, Fairview, Quezon city
 Tel. Nos. 936-06-06 937-66-98 937-66-78
 Loc. 1 to 12 Direct Line 936-71-18
 Fax (632) 936-27-81

GEODETIC ENGINEER:
NICANOR VALENCIA ANDAYON
 REG. NO. 3532 DATE: 03-20-87
 LIC. NO. 7933671 DATE: 01-04-24

PROJECT TITLE:
FARM TO MARKET ROADS
 THE DEVELOPMENT OF AGRARIAN REFORM COMMUNITIES (ARC'S) IN THE PROVINCE OF ISABELA
 IN THE REPUBLIC OF THE PHILIPPINES

DATE SURVEYED:
 August 29 - September 2, 2000

LOCATION:
 Ba. Lapogan, Tumaquini, Isabela

FILE NAME:
 L1

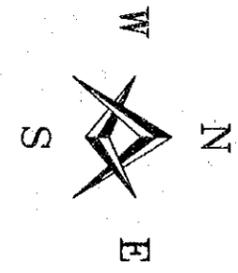
CAD BY:
 TALAHIB

THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA

Road Profile (L-1)

DWG B-19

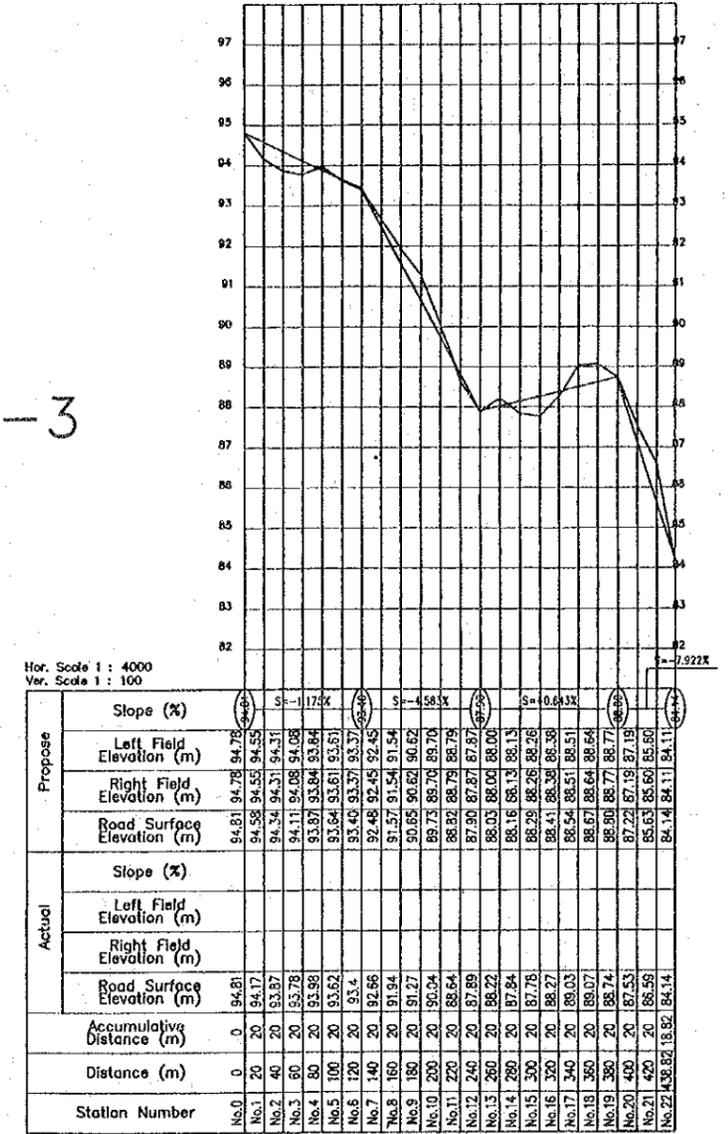
JAPAN INTERNATIONAL COOPERATION AGENCY



P.I.	COORDINATES		DIST.	BEARING	T (M)	I	R (M)	Lc (M)	E	D	PC	PT
	NORTHING	EASTING										
ROAD-3												
PI-JA	20185.632	19774.475										
PI-SB	20285.461	19784.1792	100.3	N 5-33 E	19.75	14-59	150.23	39.28	1.29	7.63	Sta. 0+ 80.55	Sta. 0+ 119.83
PI-JC	20344.325	19774.405	59.67	N 9-28 W								
PI-3D	20402.5075	19760.1234	59.91	N 13-47 W	46.69	17-39	300.75	92.64	3.6	3.81	Sta. 0+ 172.96	Sta. 0+ 265.6
PI-3E	20462.7	19764.182	60.33	N 3-51 E								
PI-3F	20622.053	19755.764	159.58	N 3-1 W								

TOTAL DIST. OF L3 = 438.82 M.

L-3



SURVEYED BY:
MEGA PHILIPPINES, INC.
 Block 3, Lot 14, Orchids cor. Rocas Streets, West, Foinview, Quezon city
 Tel. Nos. 936-06-06 937-66-88 937-66-78
 Loc. 1 to 12 Direct Line 938-71-18
 Fax (632) 938-27-81

GEODETIC ENGINEER:
NICANOR VALENCIA ANDAYON
 REG. NO. 3532 DATE: 03-20-87
 LIC. NO. 7953671 DATE: 01-04-2K

PROJECT TITLE:
FARM TO MARKET ROADS
 THE DEVELOPMENT OF AGRARIAN REFORM COMMUNITIES (ARC'S) IN THE PROVINCE OF ISABELA
 IN THE REPUBLIC OF THE PHILIPPINES

DATE SURVEYED:
 Aug. 29 - Sept. 2, 2K

LOCATION:
 Bo.Lapogon, Tumauini, Isabela

FILE NAME:
 L3

CAD BY:
 TALAHIB

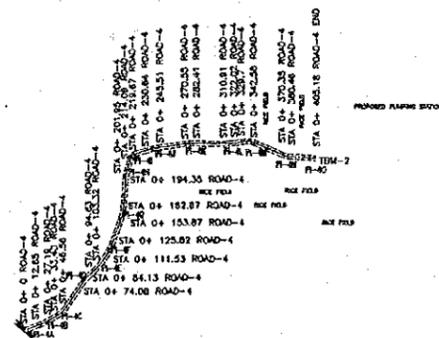
THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA

Road Profile (L-3)

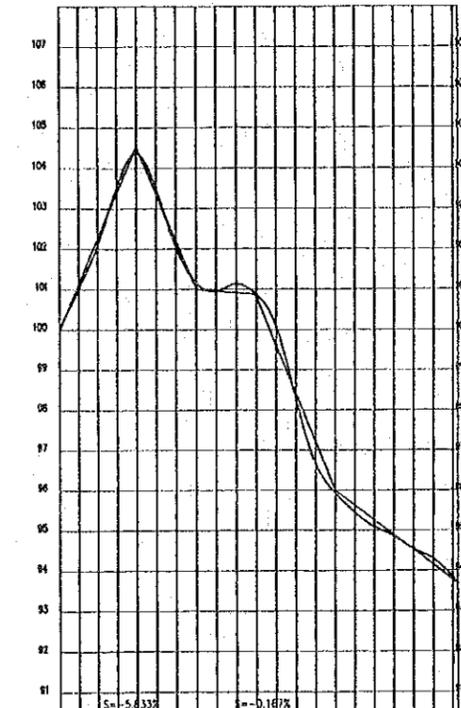
DWG B-21

JAPAN INTERNATIONAL COOPERATION AGENCY

P.I.#	COORDINATES		DST.	BEARING	T (M)	I	R (M)	Lc (M)	E	D	PC	PT
	NORTHING	EASTING										
R-1	20037.339	20012.102	ELEV.	103.009	NAIL WITH CROWN DRIVEN ON TREE							
R-2	19938.286	19932.884	ELEV.	94.481	NAIL WITH CROWN DRIVEN ON WOODEN ELEC. POST							
ROAD-4												
PI-4A	20000	20000										
PI-4B	19981.453	20007.306	19.93	S 21-30 E	7.29	8-19	100.25	14.55	0.26	11.43	Sta. 0+ 12.65	Sta. 0+ 27.19
PI-4C	19964.377	20017.091	19.68	S 29-49 E	6.16	24-30	28.36	12.13	0.66	40.41	Sta. 0+ 33.43	Sta. 0+ 45.56
PI-4D	19941.418	20049.5	39.72	S 54-41 E	5.04	11-8	51.74	10.05	0.25	22.15	Sta. 0+ 74.08	Sta. 0+ 84.13
PI-4E	19927.082	20063.306	19.9	S 43-55 E	4.36	9-59	49.87	8.69	0.19	22.98	Sta. 0+ 94.63	Sta. 0+ 103.32
PI-4F	19915.444	20079.268	19.75	S 53-54 E	7.19	16-25	49.87	14.29	0.52	22.98	Sta. 0+ 111.53	Sta. 0+ 125.82
PI-4G	19901.991	20116.695	39.77	S 70-14 E	4.53	14-41	35.14	9.01	0.29	32.61	Sta. 0+ 153.87	Sta. 0+ 162.87
PI-4H	19898.399	20156.35	39.82	S 84-49 E	3.82	12-36	34.58	7.6	0.21	33.14	Sta. 0+ 194.35	Sta. 0+ 201.95
PI-4I	19892.606	20174.422	18.98	S 72-14 E	3.02	54-19	5.89	5.58	0.73	194.55	Sta. 0+ 214.09	Sta. 0+ 219.67
PI-4J	19872.1934	20181.0161	21.45	S 17-54 E	7.46	10-51	78.56	14.87	0.35	14.59	Sta. 0+ 230.64	Sta. 0+ 245.51
PI-4K	19834.048	20185.738	38.44	S 7-3 E	5.94	8-39	78.56	11.86	0.22	14.59	Sta. 0+ 270.55	Sta. 0+ 282.41
PI-4L	19794.044	20185.171	40.01	S 0-49 W	5.57	9-45	65.36	11.12	0.24	17.53	Sta. 0+ 310.91	Sta. 0+ 322.02
PI-4M	19774.444	20188.528	19.89	S 9-43 E	6.64	34-21	21.48	12.88	1	53.35	Sta. 0+ 329.7	Sta. 0+ 342.58
PI-4N	19738.226	20172.743	39.51	S 23-33 W	5.1	18-33	31.25	10.11	0.41	36.67	Sta. 0+ 370.35	Sta. 0+ 380.46
PI-4O	19708.475	20170.688	29.82	S 3-57 W								

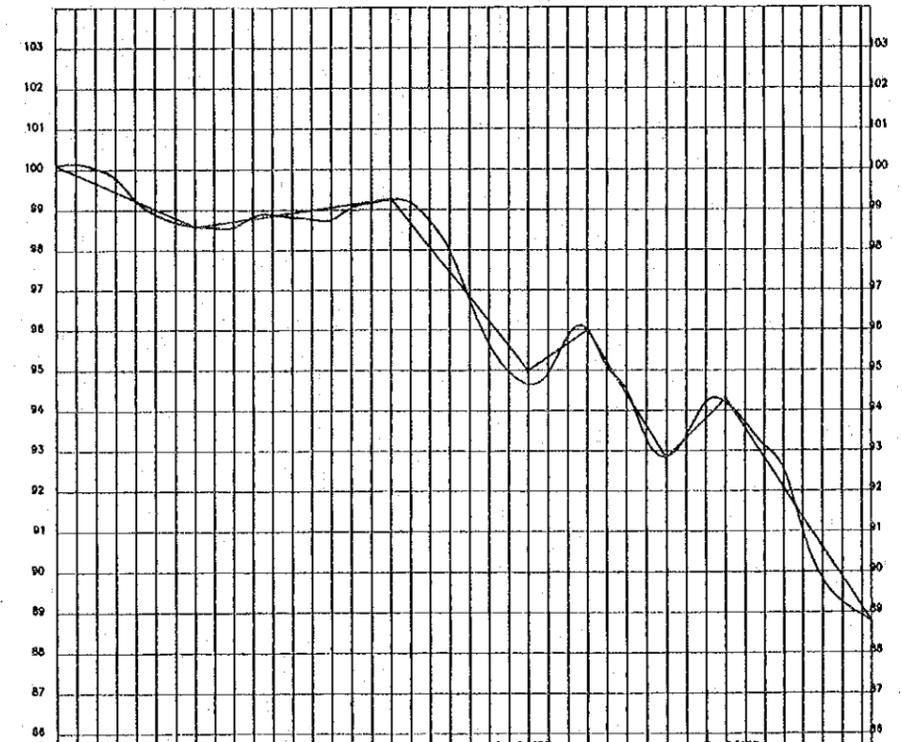
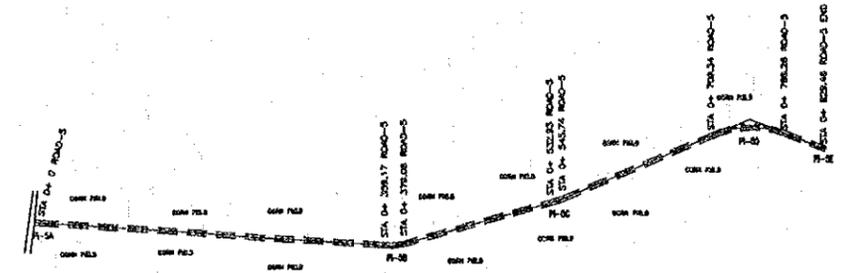
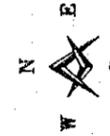


TOTAL DIST. OF L4 = 405.18 M.



Station Number	Propose				Actual			
	Slope (%)	Left Field Elevation (m)	Right Field Elevation (m)	Road Surface Elevation (m)	Slope (%)	Left Field Elevation (m)	Right Field Elevation (m)	Road Surface Elevation (m)
No.0		100.00	99.97	99.97		100.00	99.97	99.97
No.1	+5.633%	101.13	101.01	101.01		101.04	101.01	101.01
No.2		102.25	102.22	102.22		102.40	102.38	102.38
No.3		103.38	103.35	103.35		103.60	103.58	103.58
No.4		104.50	104.47	104.47		104.75	104.72	104.72
No.5		105.63	105.60	105.60		105.90	105.87	105.87
No.6		106.75	106.72	106.72		107.05	107.02	107.02
No.7	-2.167%	107.88	107.85	107.85		108.20	108.17	108.17
No.8		109.00	108.97	108.97		109.35	109.32	109.32
No.9		110.13	110.10	110.10		110.50	110.47	110.47
No.10		111.25	111.22	111.22		111.65	111.62	111.62
No.11		112.38	112.35	112.35		112.80	112.77	112.77
No.12		113.50	113.47	113.47		113.95	113.92	113.92
No.13		114.63	114.60	114.60		115.10	115.07	115.07
No.14		115.75	115.72	115.72		116.25	116.22	116.22
No.15		116.88	116.85	116.85		117.40	117.37	117.37
No.16		118.00	117.97	117.97		118.55	118.52	118.52
No.17		119.13	119.10	119.10		119.70	119.67	119.67
No.18		120.25	120.22	120.22		120.85	120.82	120.82
No.19		121.38	121.35	121.35		122.00	121.97	121.97
No.20		122.50	122.47	122.47		123.15	123.12	123.12
No.21		123.63	123.60	123.60		124.30	124.27	124.27
No.22		124.75	124.72	124.72		125.45	125.42	125.42
No.23		125.88	125.85	125.85		126.60	126.57	126.57
No.24		127.00	126.97	126.97		127.75	127.72	127.72
No.25		128.13	128.10	128.10		128.90	128.87	128.87
No.26		129.25	129.22	129.22		130.05	129.99	129.99
No.27		130.38	130.35	130.35		131.20	131.13	131.13
No.28		131.50	131.47	131.47		132.35	132.28	132.28
No.29		132.63	132.60	132.60		133.50	133.43	133.43
No.30		133.75	133.72	133.72		134.65	134.58	134.58
No.31		134.88	134.85	134.85		135.80	135.73	135.73
No.32		136.00	135.97	135.97		136.95	136.88	136.88
No.33		137.13	137.10	137.10		138.10	138.03	138.03
No.34		138.25	138.22	138.22		139.25	139.18	139.18
No.35		139.38	139.35	139.35		140.40	140.33	140.33
No.36		140.50	140.47	140.47		141.55	141.48	141.48
No.37		141.63	141.60	141.60		142.70	142.63	142.63
No.38		142.75	142.72	142.72		143.85	143.78	143.78
No.39		143.88	143.85	143.85		145.00	144.93	144.93
No.40		145.00	144.97	144.97		146.15	146.08	146.08
No.41		146.13	146.10	146.10		147.30	147.23	147.23
No.42		147.25	147.22	147.22		148.45	148.38	148.38
No.43		148.38	148.35	148.35		149.60	149.53	149.53
No.44		149.50	149.47	149.47		150.75	150.68	150.68
No.45		150.63	150.60	150.60		151.90	151.83	151.83
No.46		151.75	151.72	151.72		153.05	152.98	152.98
No.47		152.88	152.85	152.85		154.20	154.13	154.13
No.48		153.00	152.97	152.97		155.35	155.28	155.28
No.49		154.13	154.10	154.10		156.50	156.43	156.43
No.50		155.25	155.22	155.22		157.65	157.58	157.58
No.51		156.38	156.35	156.35		158.80	158.73	158.73
No.52		157.50	157.47	157.47		160.00	159.93	159.93
No.53		158.63	158.60	158.60		161.15	161.08	161.08
No.54		159.75	159.72	159.72		162.30	162.23	162.23
No.55		160.88	160.85	160.85		163.45	163.38	163.38
No.56		162.00	161.97	161.97		164.60	164.53	164.53
No.57		163.13	163.10	163.10		165.75	165.68	165.68
No.58		164.25	164.22	164.22		166.90	166.83	166.83
No.59		165.38	165.35	165.35		168.05	167.98	167.98
No.60		166.50	166.47	166.47		169.20	169.13	169.13
No.61		167.63	167.60	167.60		170.35	170.28	170.28
No.62		168.75	168.72	168.72		171.50	171.43	171.43
No.63		169.88	169.85	169.85		172.65	172.58	172.58
No.64		171.00	170.97	170.97		173.80	173.73	173.73
No.65		172.13	172.10	172.10		174.95	174.88	174.88
No.66		173.25	173.22	173.22		176.10	176.03	176.03
No.67		174.38	174.35	174.35		177.25	177.18	177.18
No.68		175.50	175.47	175.47		178.40	178.33	178.33
No.69		176.63	176.60	176.60		179.55	179.48	179.48
No.70		177.75	177.72	177.72		180.70	180.63	180.63
No.71		178.88	178.85	178.85		181.85	181.78	181.78
No.72		180.00	179.97	179.97		183.00	182.93	182.93
No.73		181.13	181.10	181.10		184.15	184.08	184.08
No.74		182.25	182.22	182.22		185.30	185.23	185.23
No.75		183.38	183.35	183.35		186.45	186.38	186.38
No.76		184.50	184.47	184.47		187.60	187.53	187.53
No.77		185.63	185.60	185.60		188.75	188.68	188.68
No.78		186.75	186.72	186.72		189.90	189.83	189.83
No.79		187.88	187.85	187.85		191.05	190.98	190.98
No.80		189.00	188.97	188.97		192.20	192.13	192.13
No.81		190.13	190.10	190.10		193.35	193.28	193.28
No.82		191.25	191.22	191.22		194.50	194.43	194.43
No.83		192.38	192.35	192.35		195.65	195.58	195.58
No.84		193.50	193.47	193.47		196.80	196.73	196.73
No.85		194.63	194.60	194.60		197.95	197.88	197.88
No.86		195.75	195.72	195.72		199.10	199.03	199.03
No.87		196.88	196.85	196.85		200.25	200.18	200.18
No.88		198.00	197.97	197.97		201.40	201.33	201.33
No.89		199.13	199.10	199.10		202.55	202.48	202.48
No.90		200.25	200.22	200.22		203.70	203.63	203.63
No.91		201.38	201.35	201.35		204.85	204.78	204.78
No.92		202.50	202.47	202.47		206.00	205.93	205.93
No.93		203.63	203.60					

P.I.#	COORDINATES		DST.	BEARING	T (m)	I	R (m)	Lc (m)	E	D	PC	PT
	NORTHING	EASTING										
R-1	20006.703	20007.770	ELEV.	NAIL WITH CROWN DRIVEN ON TREE								
R-2	20005.214	20014.819	ELEV.	NAIL WITH CROWN DRIVEN ON TREE								
ROAD-5												
PI-5A	19998.917	20003.034	369.22	S 3-53 W	10.05	18-54	60.36	19.91	0.83	18.98	Sta. 0+ 359.17	Sta. 0+ 379.08
PI-5B	19630.5495	19978.0307										
PI-5C	19466.054	20022.166	170.31	S 15-1 E	6.41	7-10	102.36	12.81	0.2	11.19	Sta. 0+ 532.93	Sta. 0+ 545.74
PI-5D	19271.2459	20101.6207	210.39	S 22-11 E	40.38	43-3	102.36	76.92	7.68	11.19	Sta. 0+ 709.34	Sta. 0+ 786.26
PI-5E	19193.1476	20071.8509	83.58	S 20-52 W								



Hor. Scale 1 : 4000
Ver. Scale 1 : 100

	Propose		Actual		Accumulative Distance (m)	Distance (m)	Station Number
	Slope (%)	Road Surface Elevation (m)	Slope (%)	Road Surface Elevation (m)			
	100.10	100.07		100.1	0	0	No.0
		99.89		100.21	20	20	No.1
		99.67		100.03	40	40	No.2
		99.46		99.88	60	60	No.3
		99.24		99.19	80	80	No.4
		99.03		98.88	100	100	No.5
		98.81		98.59	120	120	No.6
		98.60		98.57	140	140	No.7
		98.39		98.71	160	160	No.8
		98.18		98.9	180	180	No.9
		97.97		98.8	200	200	No.10
		97.76		98.91	220	220	No.11
		97.55		98.8	240	240	No.12
		97.34		98.65	260	260	No.13
		97.13		98.12	280	280	No.14
		96.92		98.17	300	300	No.15
		96.71		98.27	320	320	No.16
		96.50		98.27	340	340	No.17
		96.29		98.74	360	360	No.18
		96.08		98.74	380	380	No.19
		95.87		98.57	400	400	No.20
		95.66		98.57	420	420	No.21
		95.45		98.92	440	440	No.22
		95.24		98.92	460	460	No.23
		95.03		98.74	480	480	No.24
		94.82		98.65	500	500	No.25
		94.61		98.29	520	520	No.26
		94.40		98.29	540	540	No.27
		94.19		98.03	560	560	No.28
		93.98		98.03	580	580	No.29
		93.77		98.03	600	600	No.30
		93.56		98.03	620	620	No.31
		93.35		98.03	640	640	No.32
		93.14		98.03	660	660	No.33
		92.93		98.03	680	680	No.34
		92.72		98.03	700	700	No.35
		92.51		98.03	720	720	No.36
		92.30		98.03	740	740	No.37
		92.09		98.03	760	760	No.38
		91.88		98.03	780	780	No.39
		91.67		98.03	800	800	No.40
		91.46		98.03	820	820	No.41
		91.25		98.03	840	840	No.42
		91.04		98.03	860	860	No.43
		90.83		98.03	880	880	No.44
		90.62		98.03	900	900	No.45
		90.41		98.03	920	920	No.46
		90.20		98.03	940	940	No.47
		90.00		98.03	960	960	No.48
		89.79		98.03	980	980	No.49
		89.58		98.03	1000	1000	No.50

L5

TOTAL DIST OF L5 = 829.46 M.



SURVEYED BY:
MEGA PHILIPPINES, INC.
Block 3, Lot 14, Orchids cor. Rocas Streets, West, Fairview, Quezon city
Tel. Nos. 936-06-08 937-66-98 937-66-78
Loc. 1 to 12 Direct Line 936-71-18
Fax (032) 936-27-01

GEODETIC ENGINEER:
NICANOR VALENCIA ANDAYON
REG. NO. 3532 DATE: 03-20-87
LIC. NO. 7953871 DATE: 01-04-2K

PROJECT TITLE:
FARM TO MARKET ROADS
THE DEVELOPMENT OF AGRARIAN REFORM COMMUNITIES (ARC'S) IN THE PROVINCE OF ISABELA
IN THE REPUBLIC OF THE PHILIPPINES

DATE SURVEYED:
Aug. 21- Sept. 2, 2K

LOCATION:
Bo.Lopogan, Turmaini, Isabela

FILE NAME:
L5

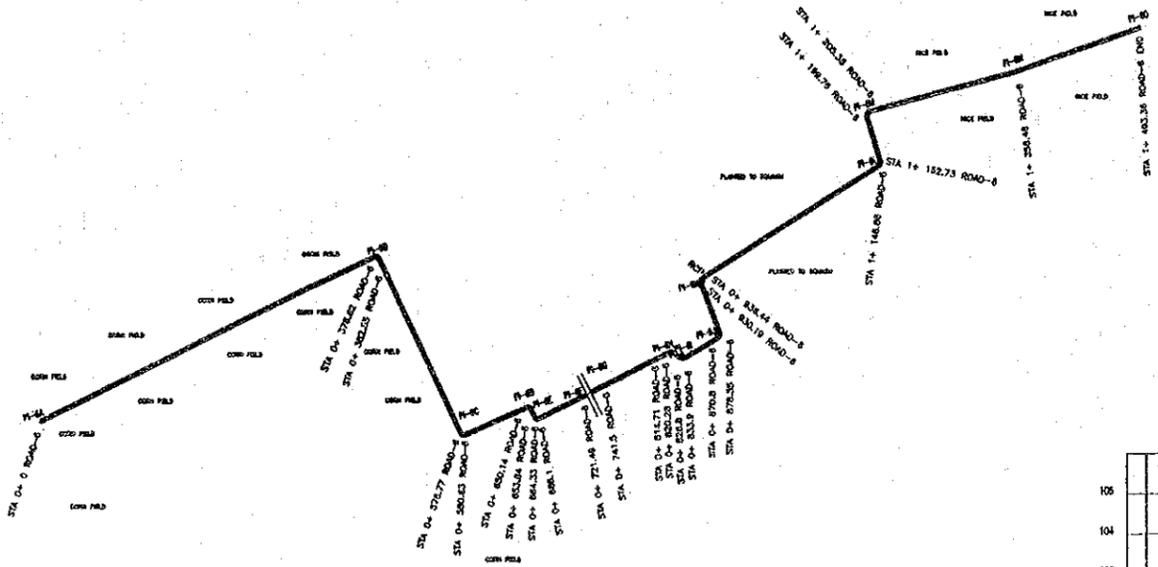
CAD BY:
TALAHIB

THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS IN THE PROVINCE OF ISABELA

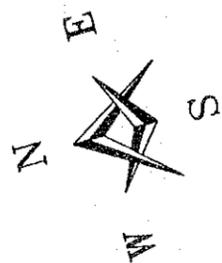
Road Profile (L-5)

DWG B-23

JAPAN INTERNATIONAL COOPERATION AGENCY

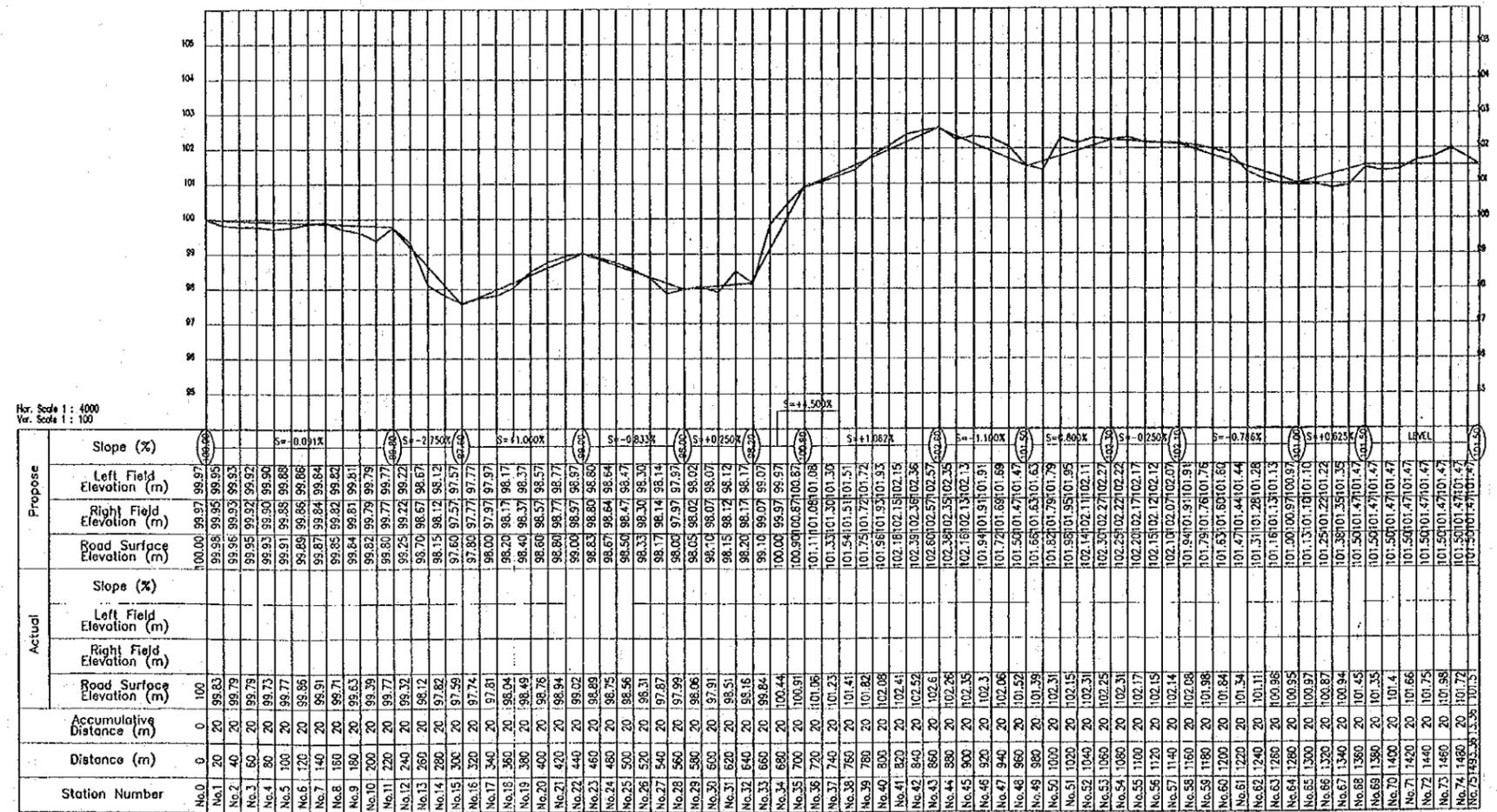


P.I.	COORDINATES		DST.	BEARING	T (M)	I (M)	R (M)	Lc (M)	E (M)	D (M)	PC	PT
	NORTHING	EASTING										
R-1	20378.284	19934.333	ELEV.	100.346	NAIL WITH CROWN DRIVEN ON TREE							
R-2	20377.438	19934.435	ELEV.	99.641	NAIL WITH CROWN DRIVEN ON TREE							
ROAD-6												
PI-6A	20000	20000										
PI-6B	20375.439	19934.435	381.12	N 9-54 W	2.5	90-4	2.5	3.93	1.04	458.37	Sta. 0+ 378.82	Sta. 0+ 382.55
PI-6C	20409.472	20130.66	189.15	N 80-10 E	2.43	88-22	2.5	3.86	0.99	458.37	Sta. 0+ 576.77	Sta. 0+ 580.63
PI-6D	20482.938	20120.058	74.23	N 8-13 W	2.28	84-42	2.5	3.7	0.68	458.37	Sta. 0+ 650.14	Sta. 0+ 653.84
PI-6E	20486.469	20134.754	15.11	N 76-29 E	2.34	86-15	2.5	3.76	0.93	458.37	Sta. 0+ 664.33	Sta. 0+ 668.1
PI-6F	20541.399	20125.299	55.74	N 9-46 W								
PI-6G	20560.997	20121.269	20.01	N 11-37 W								
PI-6H	20635.882	20106.515	76.32	N 11-9 W								
PI-6I	20644.172	20117.377	13.66	N 52-39 E	3.11	63-48	5	5.57	0.89	229.18	Sta. 0+ 814.71	Sta. 0+ 820.28
PI-6J	20688.181	20105.403	45.61	N 15-13 W	4.04	67-52	6	7.11	1.23	190.99	Sta. 0+ 826.8	Sta. 0+ 833.9
PI-6K	20681.934	20045.661	60.07	S 84-2 W	4.68	80-45	5.5	7.75	1.72	208.35	Sta. 0+ 870.8	Sta. 0+ 878.55
PI-6L	20890.742	19984.429	217.6	N 16-21 W	3.75	79-38	4.5	6.25	1.36	254.65	Sta. 0+ 930.19	Sta. 0+ 936.44
PI-6M	20889.755	19930.348	54.09	S 88-57 W	3.43	74-42	4.5	5.87	1.16	254.65	Sta. 1+ 146.86	Sta. 1+ 152.73
PI-6N	21046.461	19933.037	156.73	N 0-59 E	3.63	92-2	3.5	5.62	1.54	327.4	Sta. 1+ 199.76	Sta. 1+ 205.38
PI-6O	21181.156	19925.965	134.88	N 3-0 W								



L6

TOTAL DIST. OF L6 = 1,493.36 M.



SURVEYED BY:
MEGA PHILIPPINES, INC.
Block 3, Lot 14, Orchids cor. Rocas Streets, West, Fairview, Quezon City
Tel. Nos. 936-06-06 937-65-96 937-66-78
Loc. 1 to 12 Direct Line 938-71-18
Fax (832) 938-27-61

GEODETIC ENGINEER:
NICANOR VALENCIA ANDAYON
REG. NO. 3532 DATE: 03-20-87
LIC. NO. 7953671 DATE: 01-04-2K

PROJECT TITLE:
FARM TO MARKET ROADS
THE DEVELOPMENT OF AGRARIAN REFORM COMMUNITIES (ARC'S)
IN THE PROVINCE OF ISABELA
IN THE REPUBLIC OF THE PHILIPPINES

DATE SURVEYED:
Aug. 21- Sept. 2, 2K

LOCATION:
Bo.Lopogan, Tumanuini, Isabela

FILE NAME:
L6

CAD BY:
TALAHIB

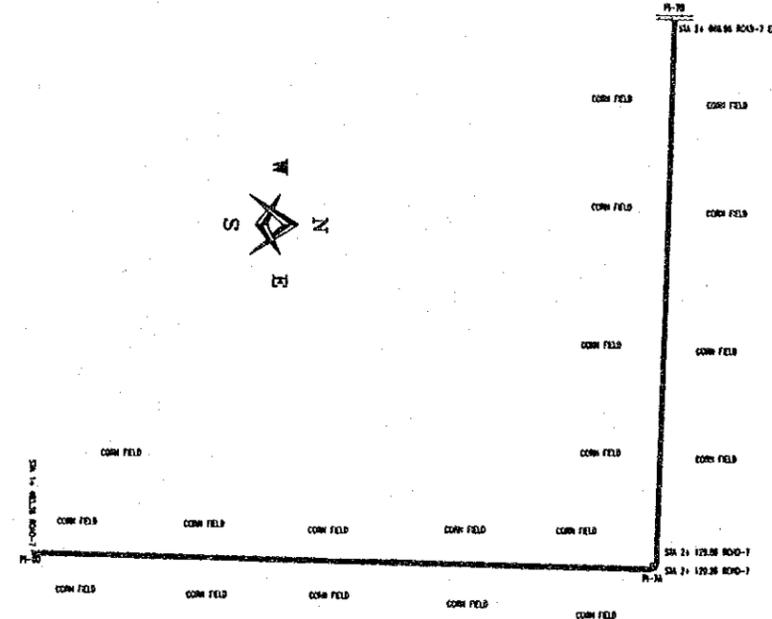
THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS
IN THE PROVINCE OF ISABELA

Road Profile (L-6)

DWG B-24

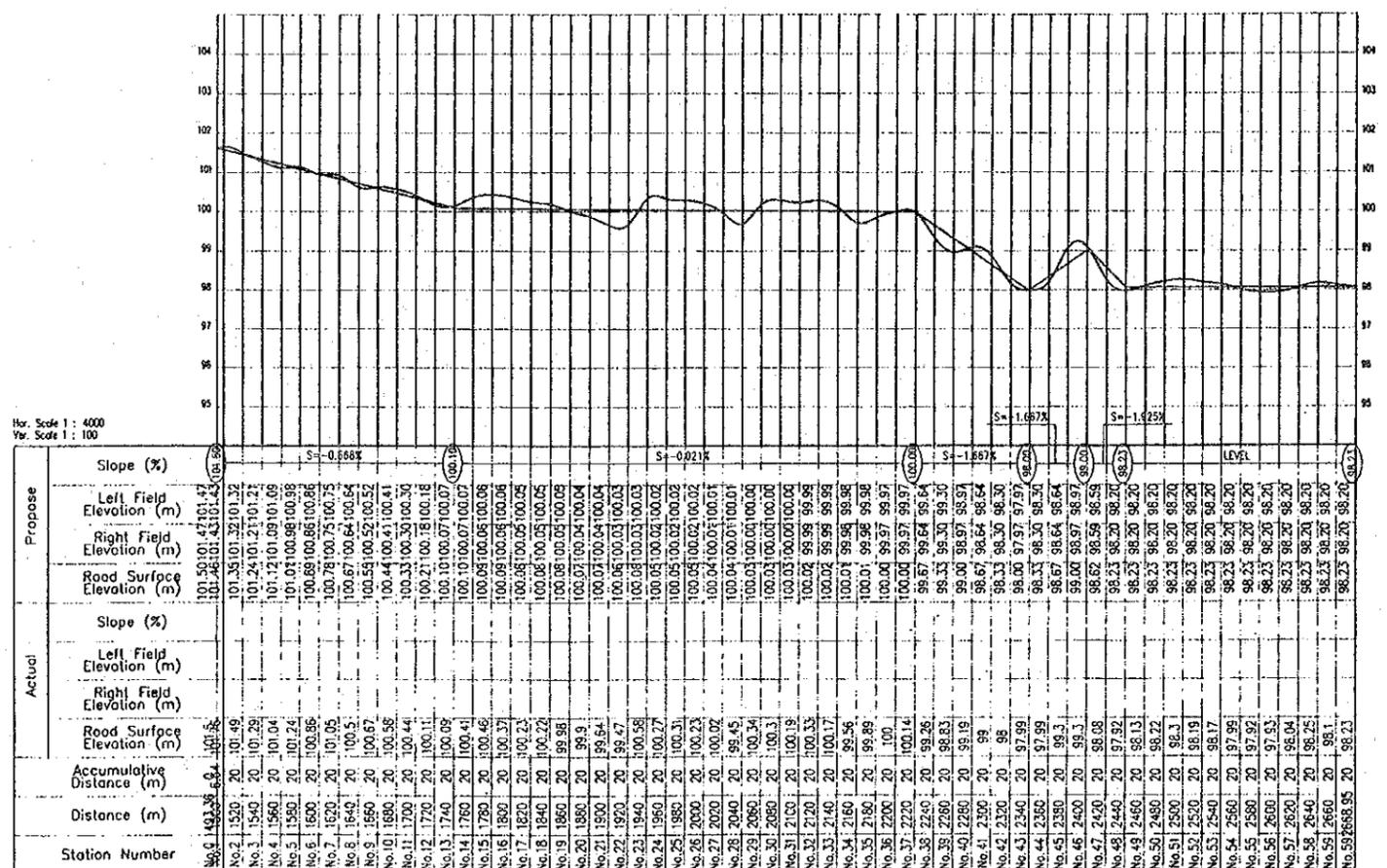
JAPAN INTERNATIONAL COOPERATION AGENCY

P.I.	COORDINATES		DST.	BEARING	T M	I	R M	Lc M	E	D	PC	PT
	NORTHING	EASTING										
ROAD-7												
PI-60	21181.156	19925.965										
PI-7A	21813.79	19943.442	632.88	N 1-35 E	5.98	89-46	6	9.4	2.47	190.99	Sta. 2+ 120.26	Sta. 2+ 129.66
PI-7B	21831.0322	19398.4502	545.26	N 88-11 W								



L7

TOTAL DIST. OF L7 = 1,175.59 M.



Hor. Scale 1 : 4000
Ver. Scale 1 : 100

Station Number	Propose			Actual		
	Slope (%)	Left Field Elevation (m)	Right Field Elevation (m)	Slope (%)	Left Field Elevation (m)	Right Field Elevation (m)
No. 0 140.36		101.50	101.47		101.50	101.47
No. 1 152.00		101.35	101.32		101.49	101.46
No. 2 154.00		101.24	101.21		101.29	101.26
No. 3 156.00		101.17	101.14		101.04	101.01
No. 4 158.00		101.01	100.98		100.74	100.71
No. 5 160.00		100.89	100.86		100.96	100.93
No. 6 162.00		100.78	100.75		100.85	100.82
No. 7 164.00		100.67	100.64		100.65	100.62
No. 8 166.00		100.55	100.52		100.67	100.64
No. 9 168.00		100.44	100.41		100.58	100.55
No. 10 170.00		100.33	100.30		100.44	100.41
No. 11 172.00		100.21	100.18		100.33	100.30
No. 12 174.00		100.10	100.07		100.21	100.18
No. 13 176.00		100.09	100.06		100.09	100.06
No. 14 178.00		100.05	100.02		100.06	100.03
No. 15 180.00		100.09	100.06		100.06	100.03
No. 16 182.00		100.08	100.05		100.06	100.03
No. 17 184.00		100.06	100.03		100.06	100.03
No. 18 186.00		100.06	100.03		100.06	100.03
No. 19 188.00		100.08	100.05		100.06	100.03
No. 20 190.00		100.07	100.04		100.06	100.03
No. 21 192.00		100.06	100.03		100.06	100.03
No. 22 194.00		100.05	100.02		100.06	100.03
No. 23 196.00		100.05	100.02		100.06	100.03
No. 24 198.00		100.05	100.02		100.06	100.03
No. 25 200.00		100.04	100.01		100.06	100.03
No. 26 202.00		100.04	100.01		100.06	100.03
No. 27 204.00		100.04	100.01		100.06	100.03
No. 28 206.00		100.03	100.00		100.06	100.03
No. 29 208.00		100.03	100.00		100.06	100.03
No. 30 210.00		100.03	100.00		100.06	100.03
No. 31 212.00		100.03	100.00		100.06	100.03
No. 32 214.00		100.03	100.00		100.06	100.03
No. 33 216.00		100.03	100.00		100.06	100.03
No. 34 218.00		100.03	100.00		100.06	100.03
No. 35 220.00		100.03	100.00		100.06	100.03
No. 36 222.00		100.03	100.00		100.06	100.03
No. 37 224.00		100.03	100.00		100.06	100.03
No. 38 226.00		100.03	100.00		100.06	100.03
No. 39 228.00		100.03	100.00		100.06	100.03
No. 40 230.00		100.03	100.00		100.06	100.03
No. 41 232.00		100.03	100.00		100.06	100.03
No. 42 234.00		100.03	100.00		100.06	100.03
No. 43 236.00		100.03	100.00		100.06	100.03
No. 44 238.00		100.03	100.00		100.06	100.03
No. 45 240.00		100.03	100.00		100.06	100.03
No. 46 242.00		100.03	100.00		100.06	100.03
No. 47 244.00		100.03	100.00		100.06	100.03
No. 48 246.00		100.03	100.00		100.06	100.03
No. 49 248.00		100.03	100.00		100.06	100.03
No. 50 250.00		100.03	100.00		100.06	100.03
No. 51 252.00		100.03	100.00		100.06	100.03
No. 52 254.00		100.03	100.00		100.06	100.03
No. 53 256.00		100.03	100.00		100.06	100.03
No. 54 258.00		100.03	100.00		100.06	100.03
No. 55 260.00		100.03	100.00		100.06	100.03
No. 56 262.00		100.03	100.00		100.06	100.03
No. 57 264.00		100.03	100.00		100.06	100.03
No. 58 266.00		100.03	100.00		100.06	100.03
No. 59 268.00		100.03	100.00		100.06	100.03
No. 60 270.00		100.03	100.00		100.06	100.03



SURVEYED BY:
MEGA PHILIPPINES, INC.
Block 3, Lot 14, Orchids cor. Rocas Streets, West,
Fairview, Quezon city
Tel. Nos. 938-08-06 937-66-96 937-66-78
Loc. 1 to 12 Direct Line 938-71-18
Fax (832) 938-27-61

GEODETC ENGINEER:
NICANOR VALENCIA ANDAYON
REG. NO. 3532 DATE: 03-20-87
LIC. NO. 7953871 GATE: 01-04-2K

PROJECT TITLE:
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IN THE REPUBLIC OF THE PHILIPPINES

DATE SURVEYED:
Aug. 29 - Sept. 2, 2K

LOCATION:
Bo. Lapogon, Turanuini, Isabela

FILE NAME:
L7

CAD BY:
TALAHIB

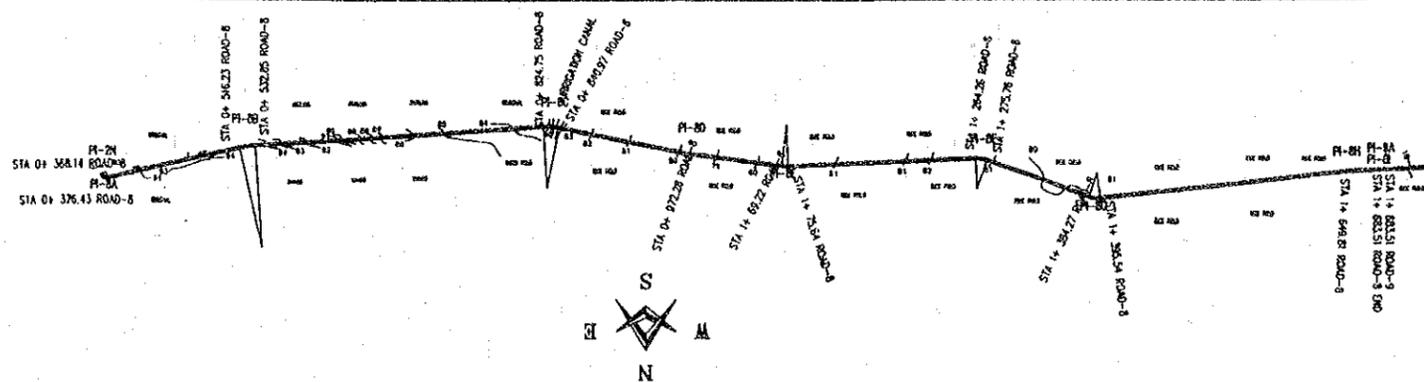
THE REPUBLIC OF THE PHILIPPINES THE STUDY ON THE DEVELOPMENT OF ARCS
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Road Profile (L-7)

DWG
B-25

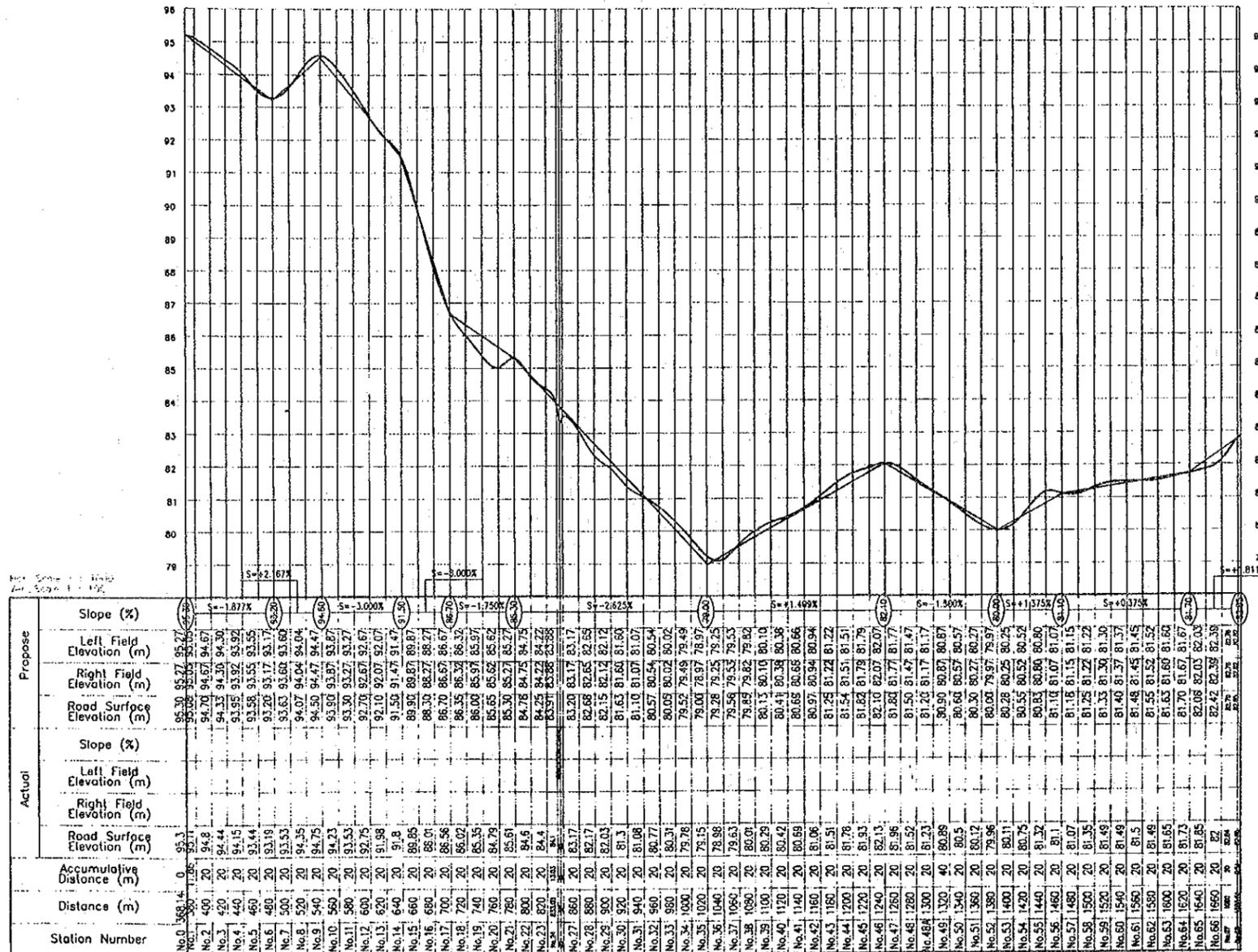
JAPAN INTERNATIONAL COOPERATION AGENCY

P.I.	COORDINATES		DIST.	BEARING	T (M)	I	R (M)	Lc (M)	E	D	PC	PT
	NORTHING	EASTING										
ROAD-8												
PI-2N	21185.566	21223.1145										
PI-8A	21190.746	21221.9771	5.3	N 12-23 W	5.3	90-48	5.23	8.29	2.22	219.1	Sta. 0+ 0	Sta. 0+ 8.29
PI-8B	21155.7538	21072.5866	153.43	S 76-49 W	8.33	9-29	100.36	16.62	0.34	11.42	Sta. 0+ 516.23	Sta. 0+ 532.85
PI-8C	21135.8702	20764.8418	308.39	S 86-18 W	8.16	15-17	60.78	16.22	0.54	18.85	Sta. 0+ 824.75	Sta. 0+ 840.97
PI-8D	21163.8931	20628.2171	139.47	N 78-25 W								
PI-8E	21176.0427	20528.8027	100.15	N 83-2 W	3.22	9-0	40.89	6.42	0.13	28.02	Sta. 1+ 69.22	Sta. 1+ 75.64
PI-8F	21169.0404	20331.266	197.66	S 87-58 W	5.82	21-43	30.36	11.51	0.55	37.74	Sta. 1+ 264.26	Sta. 1+ 275.76
PI-8G	21209.4853	20218.2248	120.06	N 70-19 W	5.73	25-41	25.14	11.27	0.65	45.58	Sta. 1+ 384.27	Sta. 1+ 395.54
PI-8H	21182.2974	19959.6468	260	S 84-0 W								
PI-8I	21181.156	19925.965	33.7	S 88-4 W								



L8

TOTAL DIST. OF LB = 1,315.37 M.



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GEODETIC ENGINEER:
NICANOR VALENCIA ANDAYON
 REG. NO. 3532 DATE: 03-20-87
 LIC. NO. 7933871 DATE: 01-04-2K

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 TALAHIB

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 IN THE PROVINCE OF ISABELA

Road Profile (L-8)

DWG B-26

JAPAN INTERNATIONAL COOPERATION AGENCY

