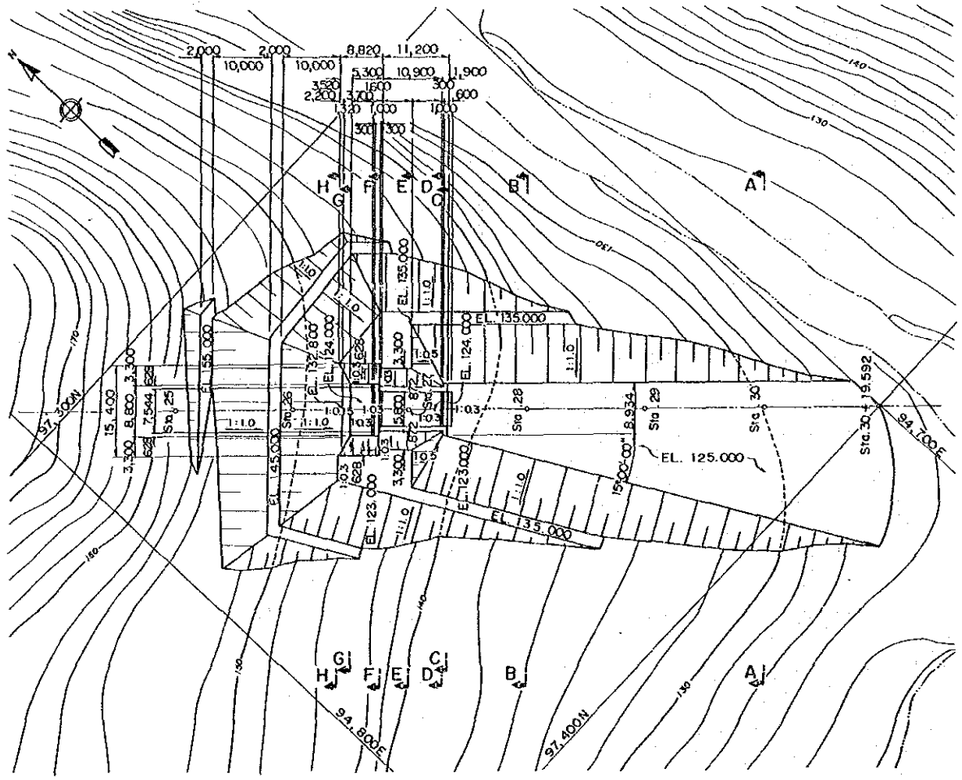
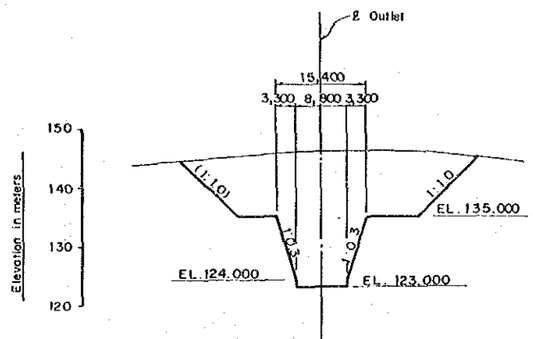
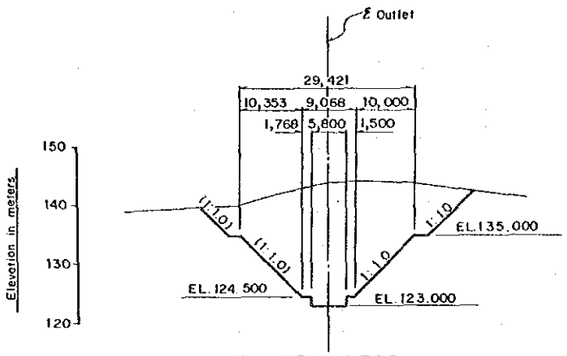
Fig. 3.2.29



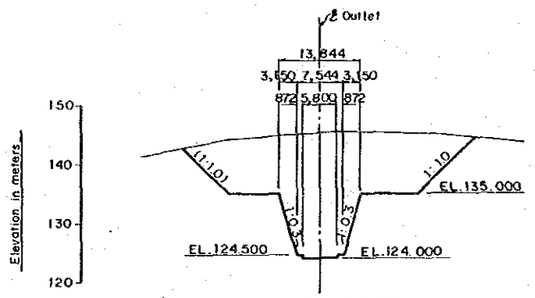
PLAN



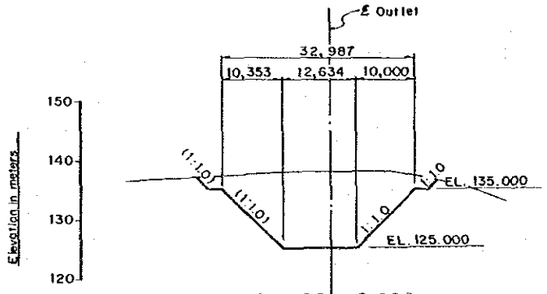
Sta. 26 + 15.000
(SECTION C-C)



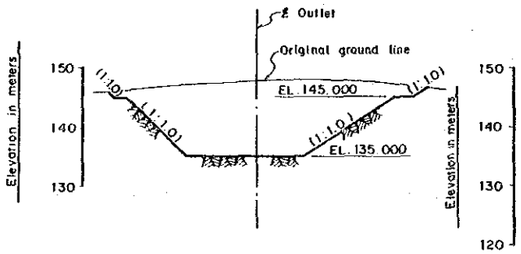
Sta. 27 + 11.500
(SECTION F-F)



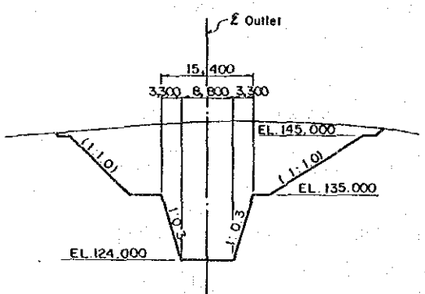
Sta. 27 + 0.000
(SECTION D-D)



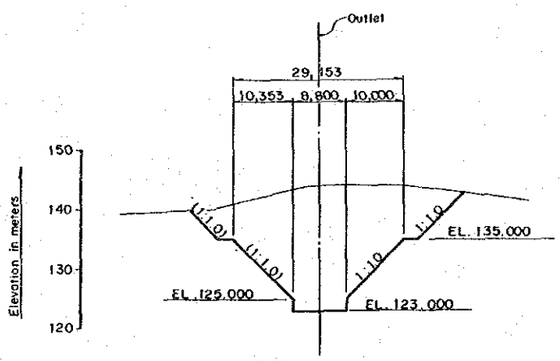
Sta. 28 + 0.000
(SECTION G-G)



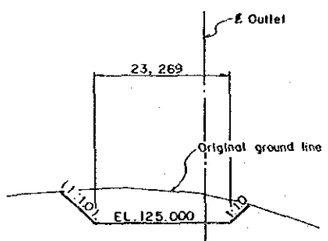
Sta. 26 + 8.000
(SECTION A-A)



Sta. 26 + 10.000
(SECTION B-B)



Sta. 27 + 5.691
(SECTION E-E)

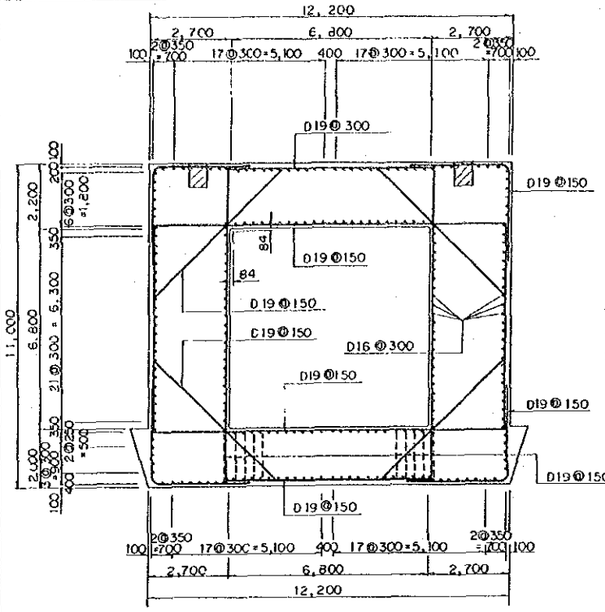


Sta. 30 + 0.000
(SECTION H-H)

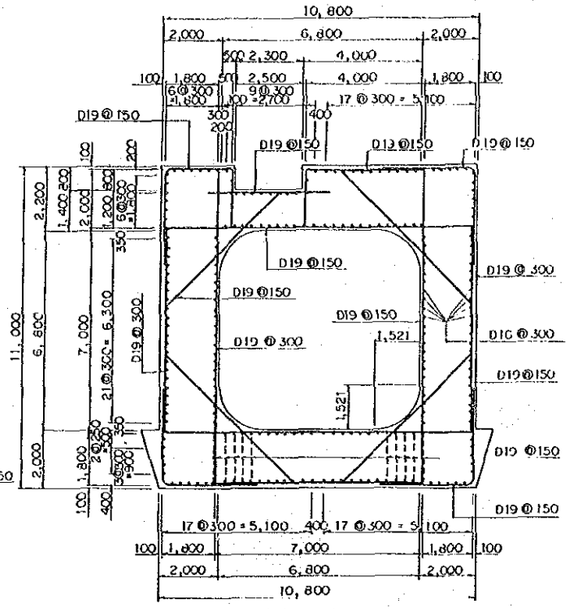
SCALE 0 50m

DIVERSION TUNNEL
OUTLET, EXCAVATION PLAN AND SECTIONS

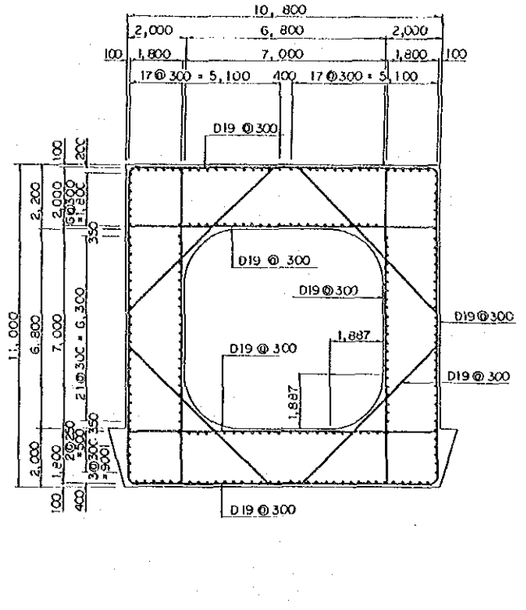
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



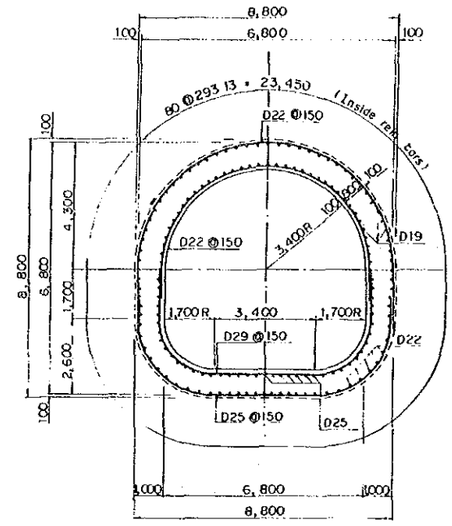
Sta. 2 + 5.500
(SECTION b – b)



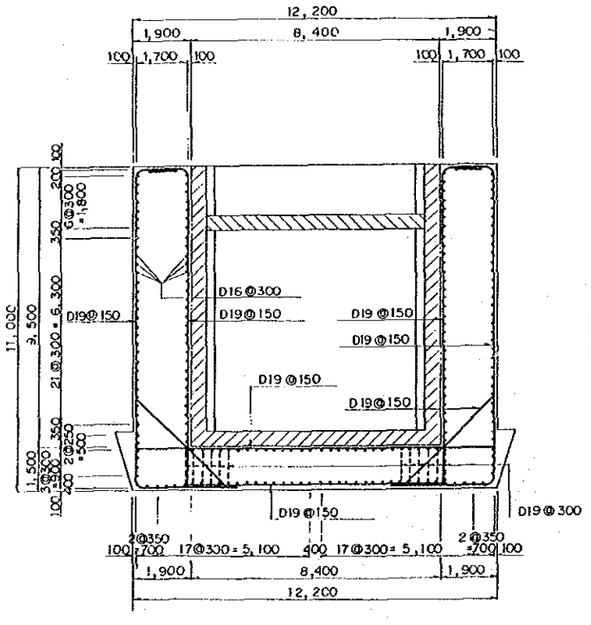
Sta. 2 + 12.200
(SECTION d – d)



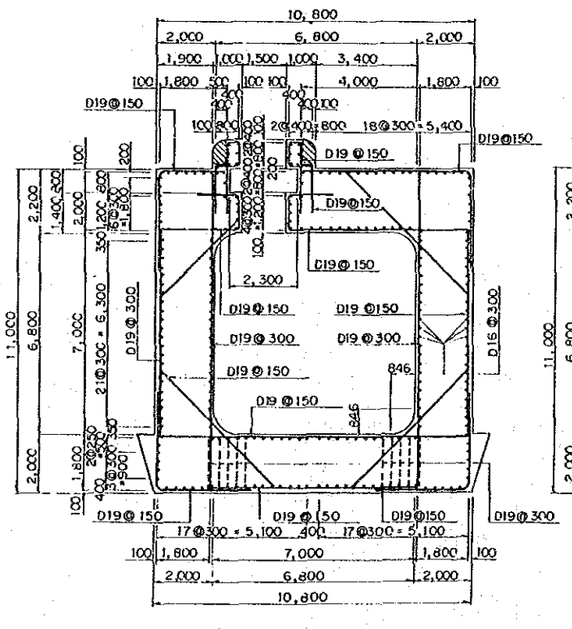
Sta. 2 + 15.250
(SECTION e – e)



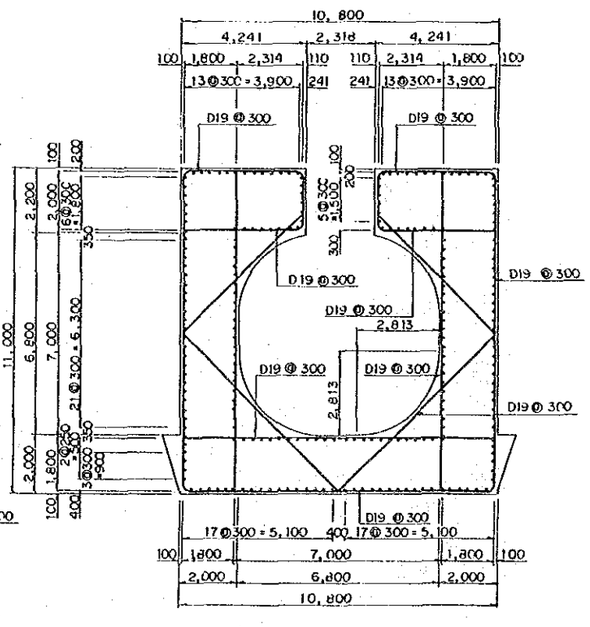
(SECTION g – g)



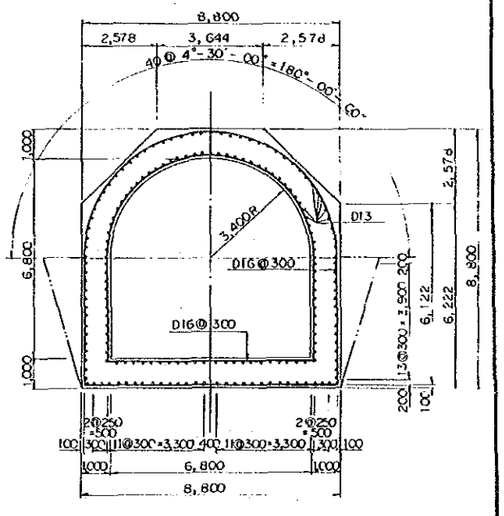
Sta. 2 + 3.200
(SECTION a – a)



Sta. 2 + 9.450
(SECTION c – c)



Sta.3 + 500
(SECTION f – f)



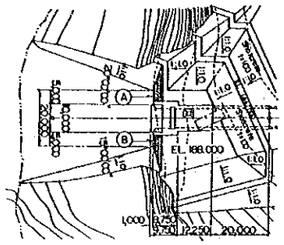
(SECTION h – h)

SCALE 0 10m

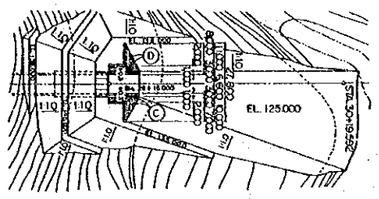
Note : For Section Nos., see Dwg. No. D-006 and D-007.

DIVERSION TUNNEL
INLET AND OUTLET, REINFORCEMENT BAR DETAILS

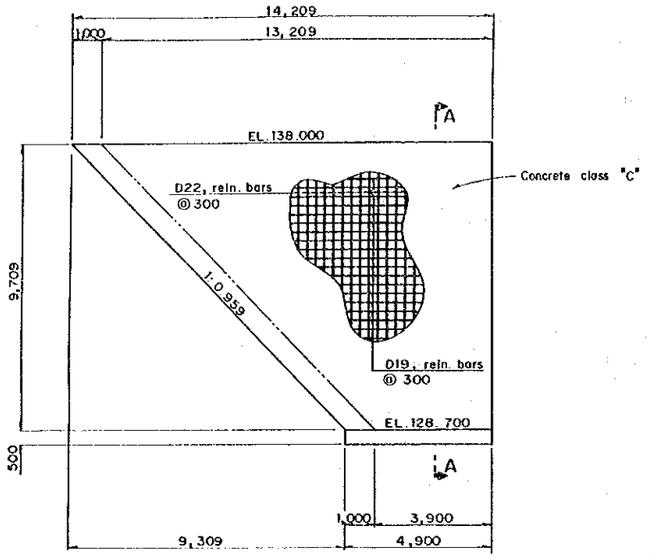
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



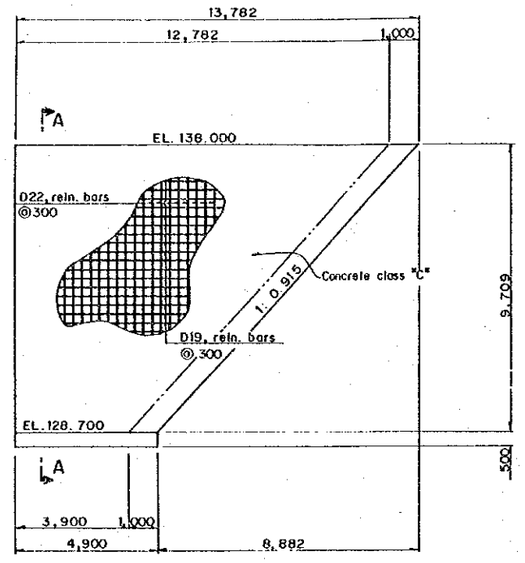
KEY PLAN OF INLET



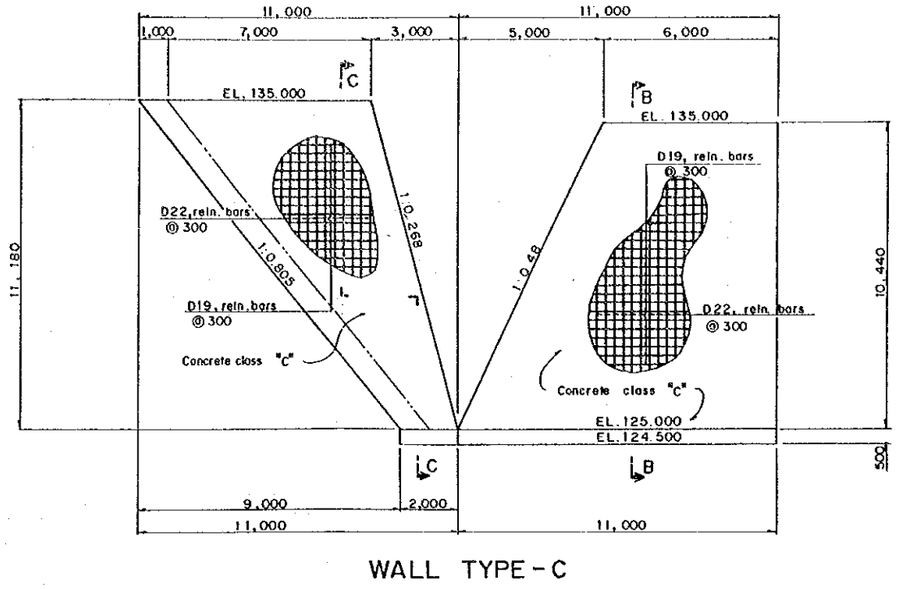
KEY PLAN OF OUTLET



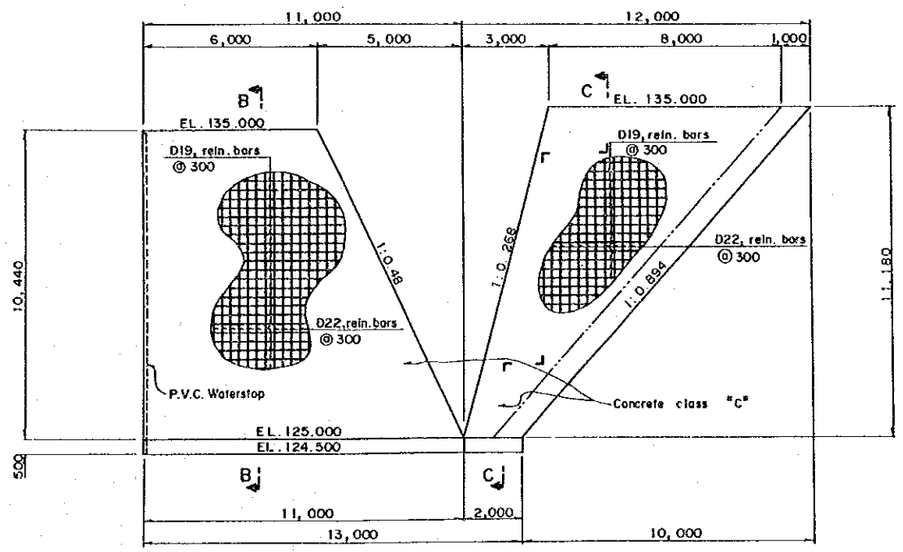
WALL TYPE A



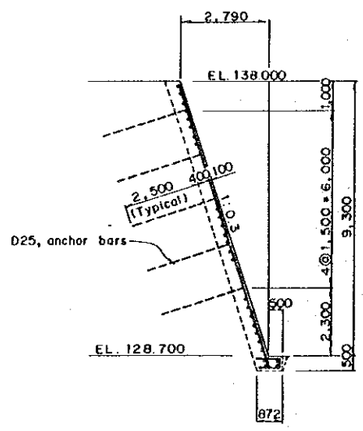
WALL TYPE B



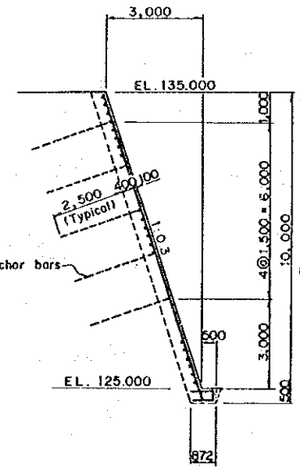
WALL TYPE - C



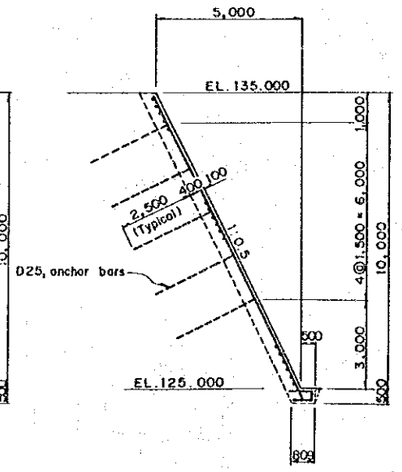
WALL TYPE - D



SECTION A-A



SECTION B-B



SECTION C-C

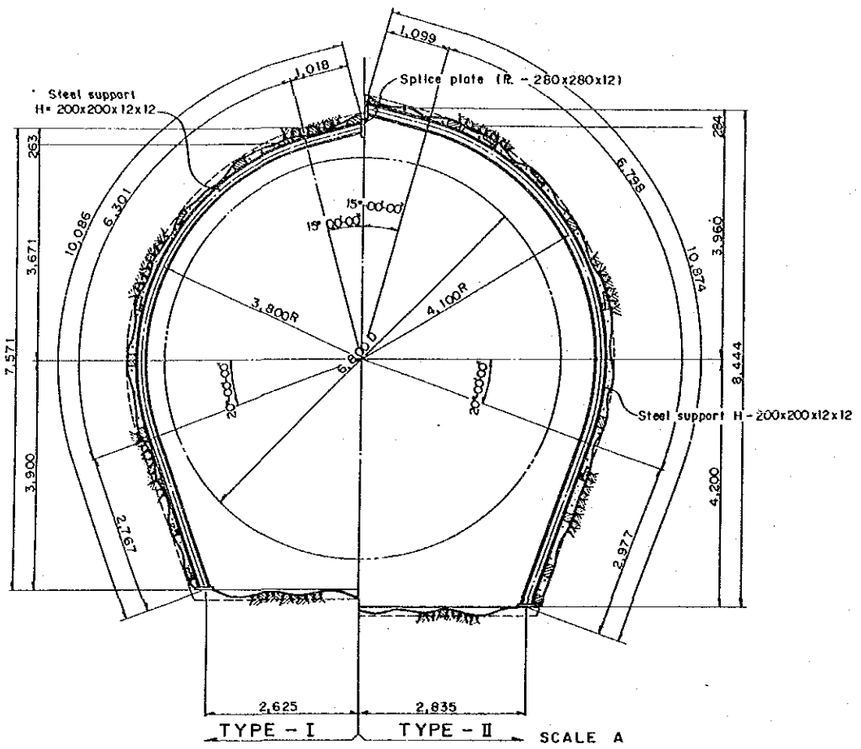
Note : For concrete finishes, see Dwg. No. D-002.

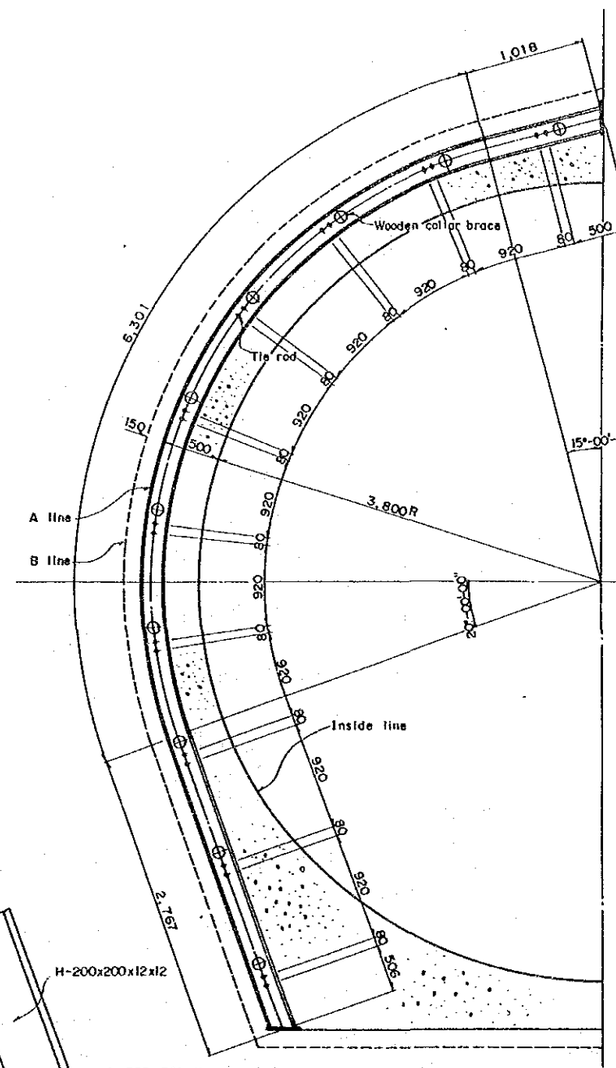
SCALE 0 10m

DIVERSION TUNNEL
INLET AND OUTLET, CONCRETE FACING

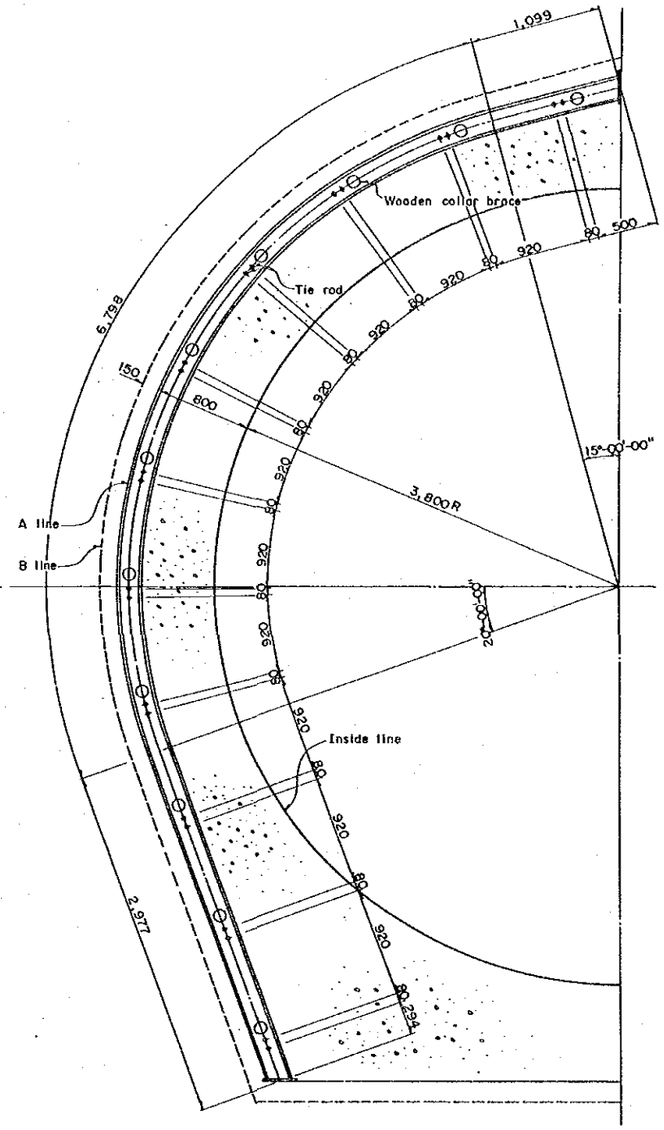
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.2.32

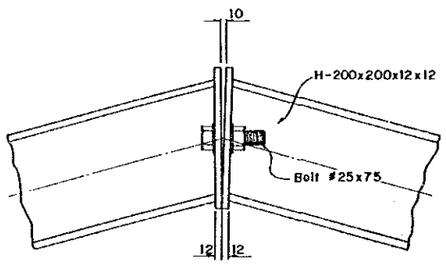


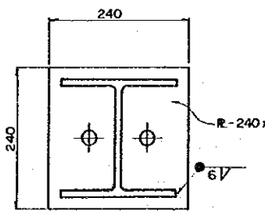


TYPE - I SCALE B

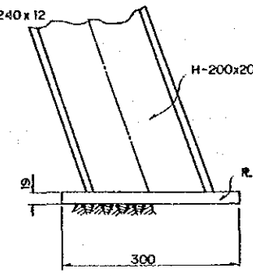


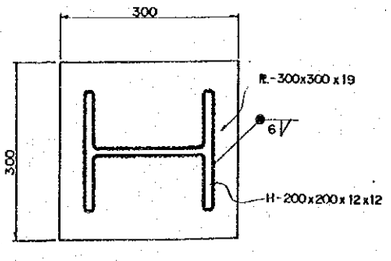
TYPE - II SCALE B



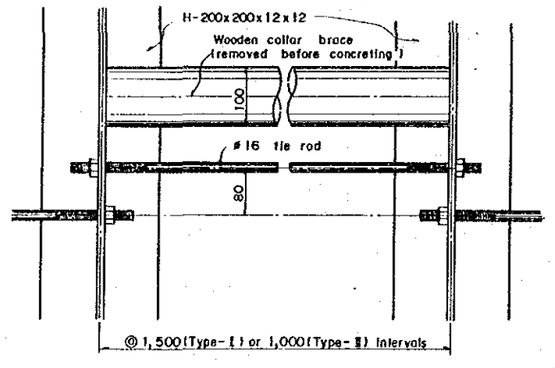


DETAIL OF CROWN BUTT JOINT SCALE D

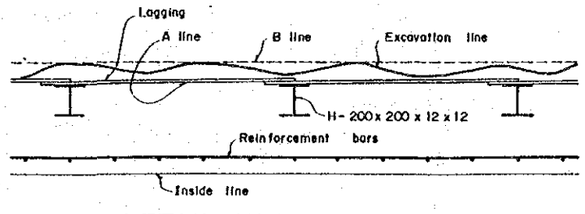




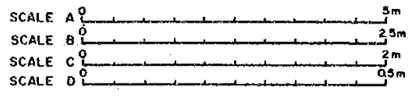
DETAIL OF FOOT PLATE SCALE D



DETAIL OF TIE ROD SCALE D



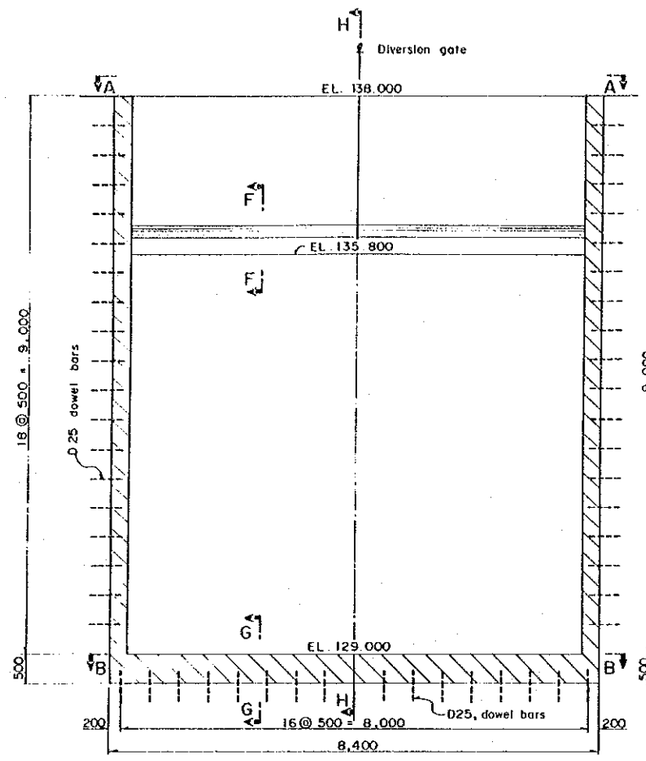
DETAIL OF LAGGING SCALE C



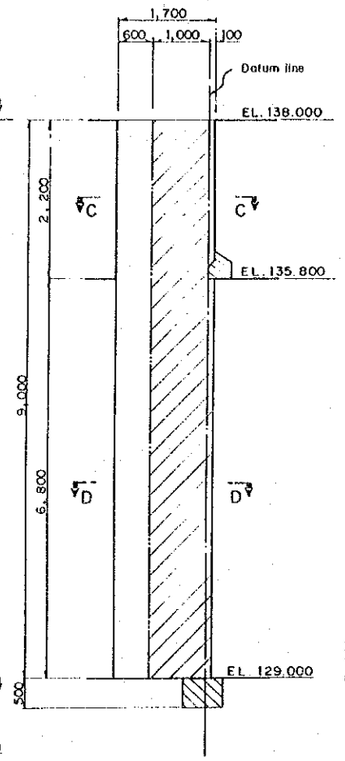
DIVERSION TUNNEL
ARRANGEMENT OF STEEL SUPPORT

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

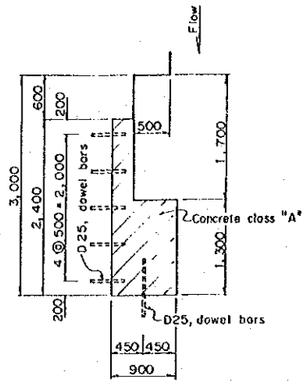
Fig. 3.2.33



ELEVATION (FOR DIVERSION GATE) SCALE A

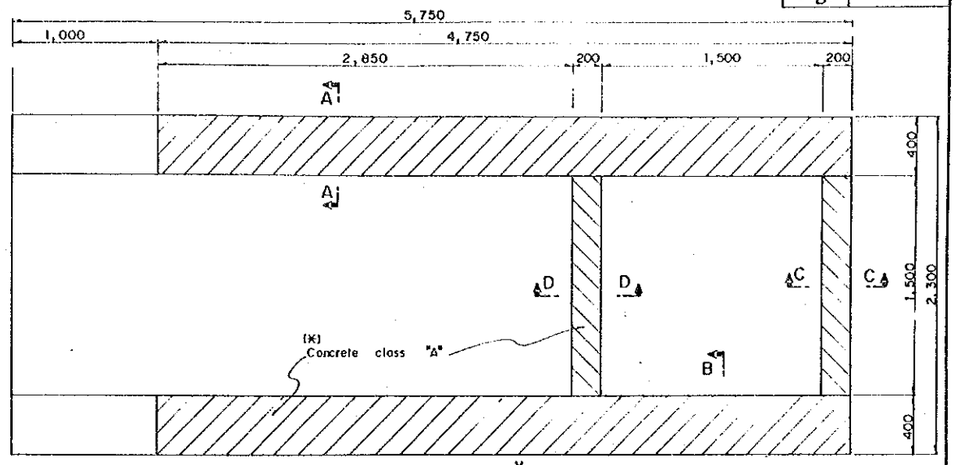


SECTION H-H SCALE A

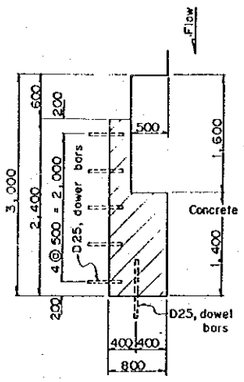


Betwee EL. 136.300 and EL. 138.000

SECTION C-C SCALE B

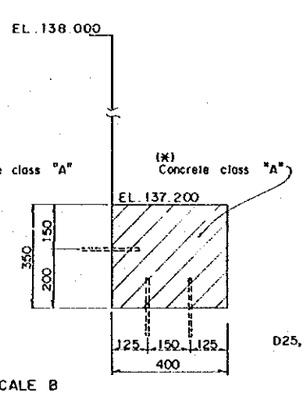


PLAN (FOR BULK GATE*) SCALE B

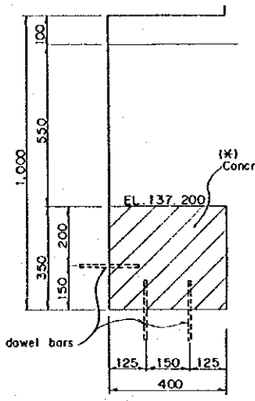


Below EL. 136.300

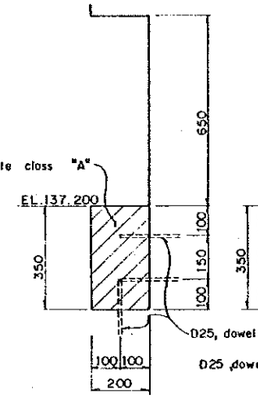
SECTION D-D SCALE B



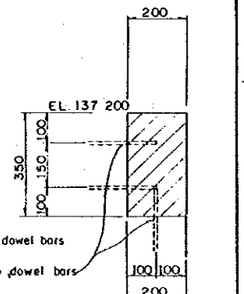
SECTION A-A SCALE B



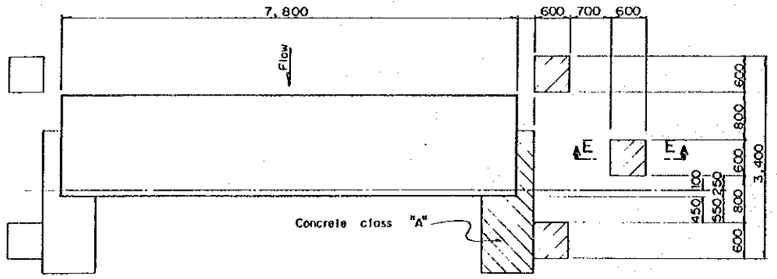
SECTION B-B SCALE B



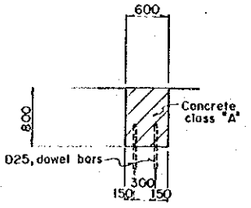
SECTION C-C SCALE B



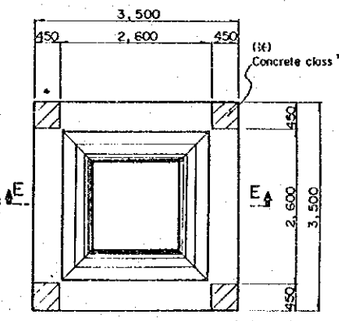
SECTION D-D SCALE B



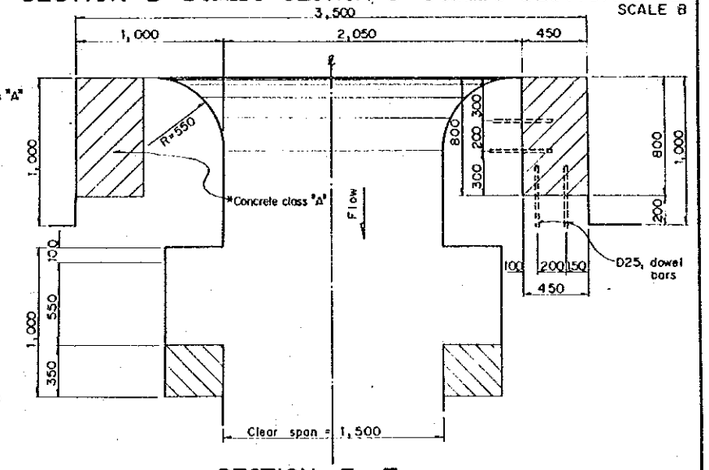
SECTION A - A SCALE A



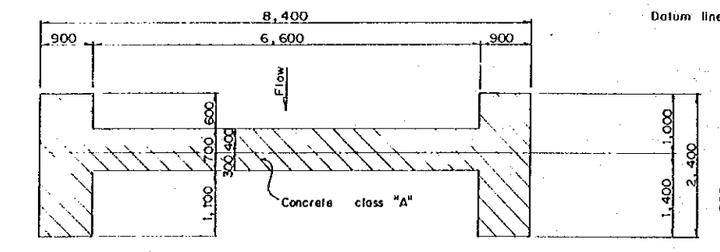
SECTION E-E SCALE B



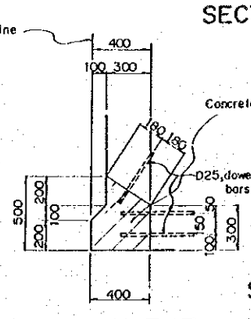
PLAN OF INTAKE SCALE A



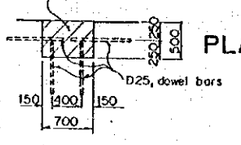
SECTION E-E SCALE B



SECTION B-B SCALE A



SECTION F-F SCALE C



SECTION G-G SCALE B

Note : Marked with (*) shall be constructed by Lot-II.

SCALE A 0 5m

SCALE B 0 4m

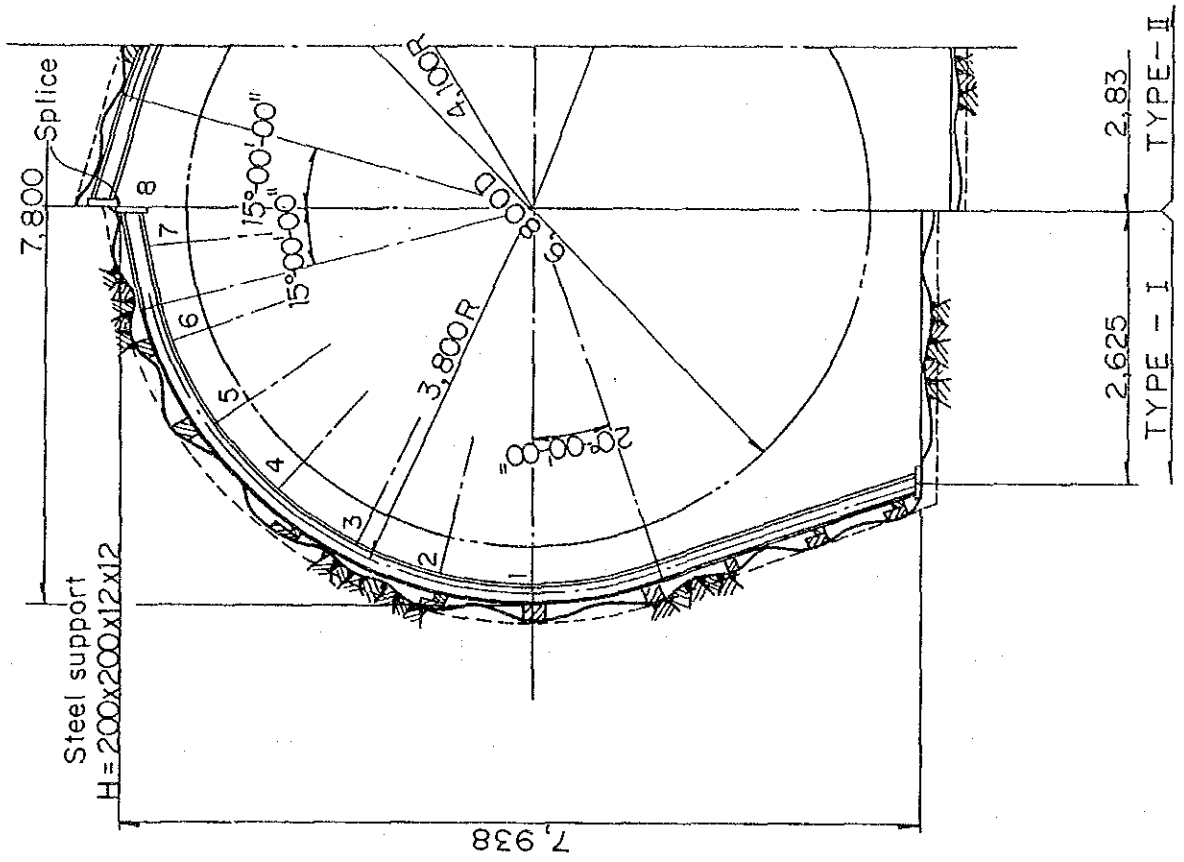
SCALE C 0 2m

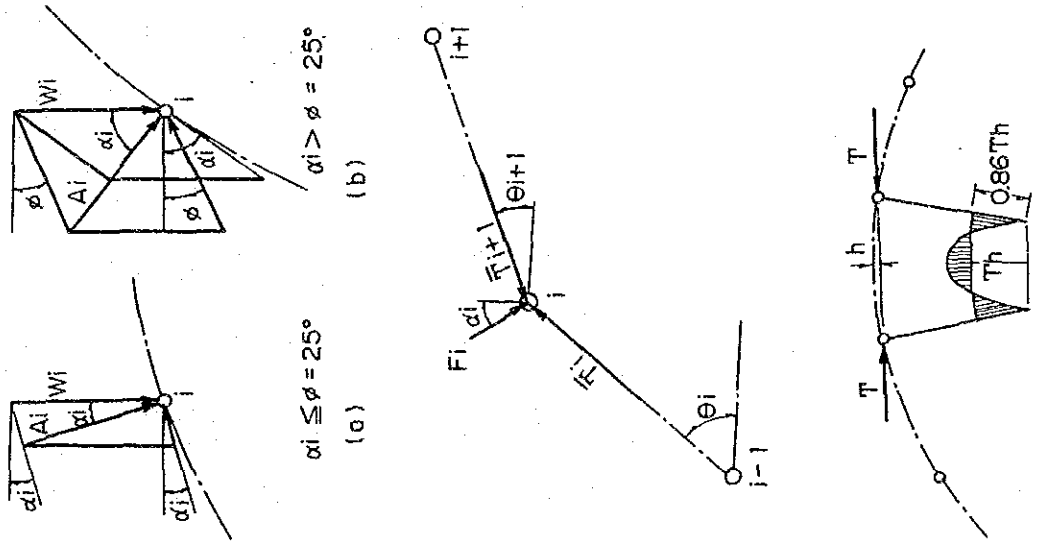
DIVERSION TUNNEL
BLOCKOUT DETAILS

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

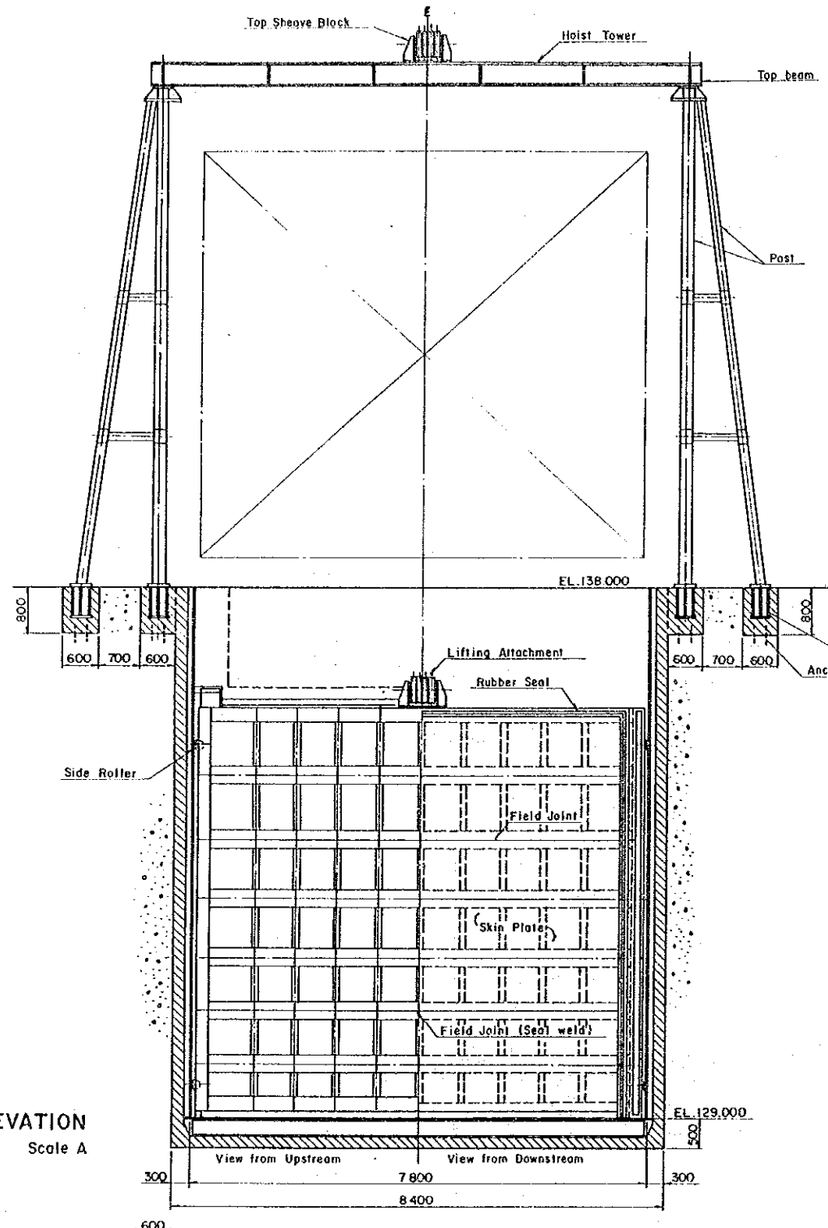
Fig. 3.2.34



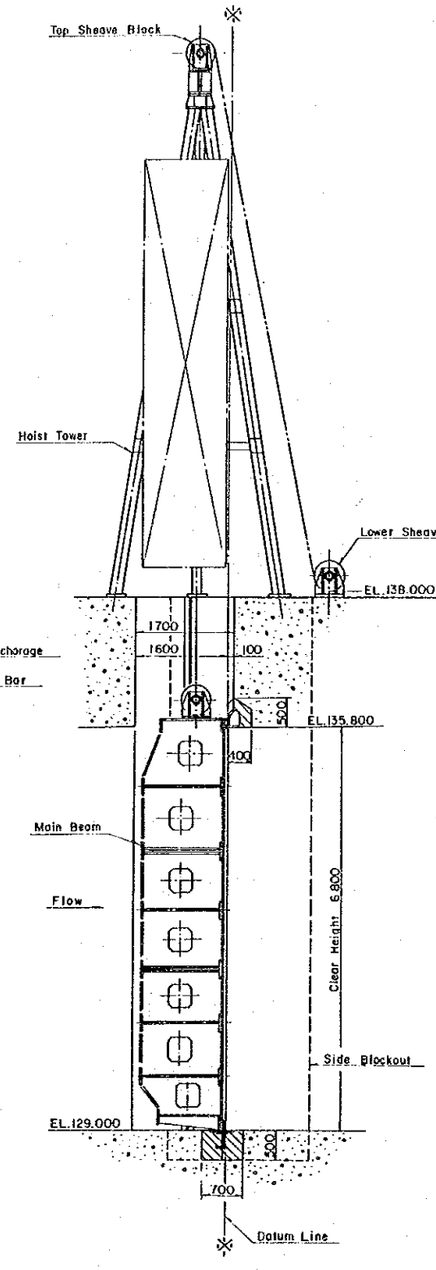


STRUCTURAL MODEL OF STEEL SUPPORT	GOVERNMENT OF MAURITIUS PORT LOUIS WATER SUPPLY PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY

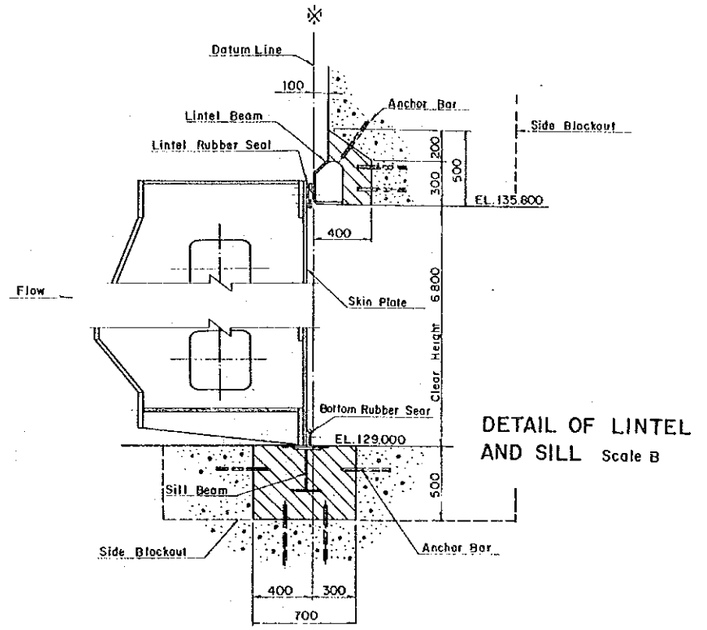
Fig. 3.3.1



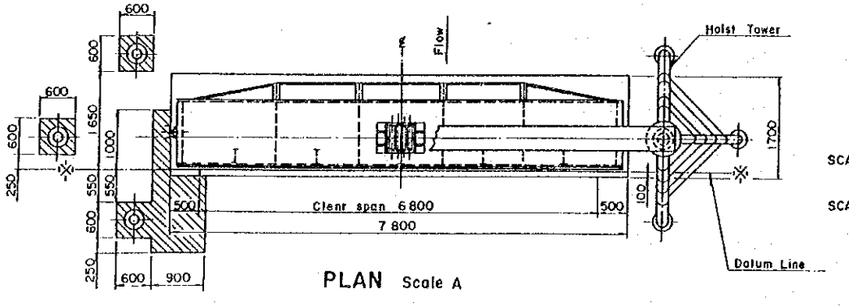
ELEVATION
Scale A



PROFILE Scale A



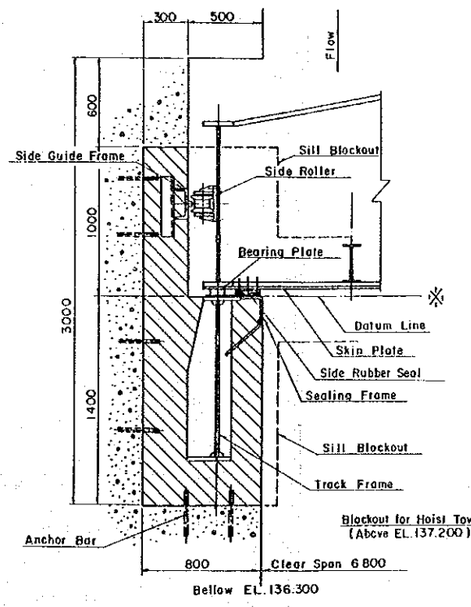
DETAIL OF LINTEL AND SILL Scale B

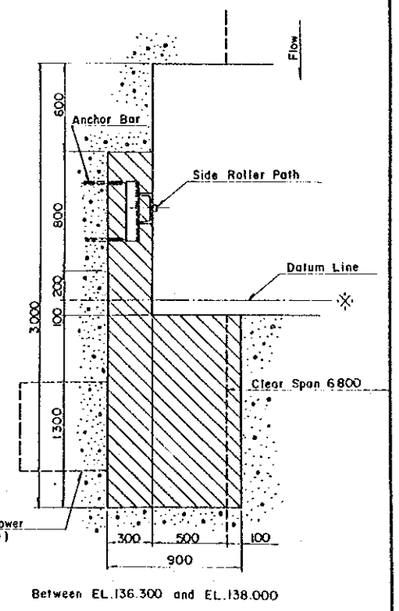


PLAN Scale A

SCALE A 0 5m

SCALE B 0 2m



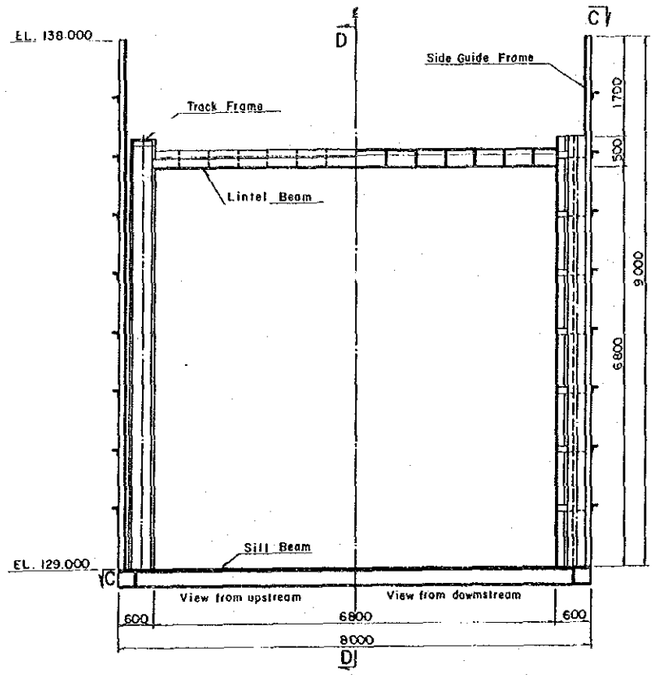


DETAIL OF SLOT Scale B

METAL WORK
DIVERSION GATE

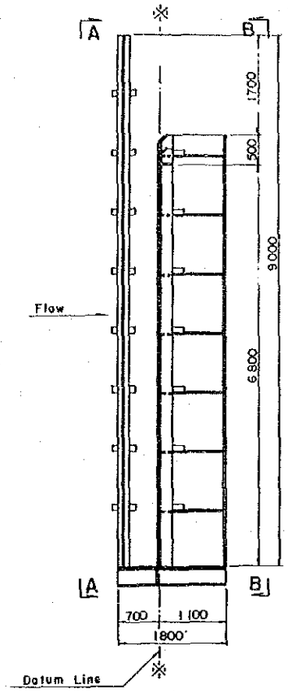
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.3.2

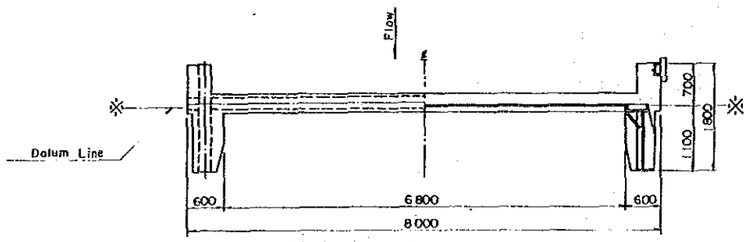


VIEW A-A VIEW B-B

Scale A



SECTION D-D Scale A



SECTION C-C Scale A

Scale A 0 5m

METAL WORK GUIDE FRAME OF DIVERSION GATE	GOVERNMENT OF MAURITIUS PORT LOUIS WATER SUPPLY PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.1

I. P. NO.	Coordinate	
	X	Y
NO. 0	8128.600	5115.600
I.P. – 1	8081.000	5138.800
I.P. – 2	7940.000	5375.500
I.P. – 3	7852.500	5471.000
I.P. – 4	7757.000	5553.000
I.P. – 5	7780.200	5669.700
I.P. – 6	7765.400	5672.400
I.P. – 7	7748.200	5583.800
I.P. – 8	7733.600	5561.000
I.P. – 9	7718.000	5560.000
I.P. – 10	7674.500	5534.000
I.P. – 11	7645.000	5510.000
I.P. – 12	7618.000	5444.000
I.P. – 13	7636.800	5408.000
I.P. – 14	7691.300	5351.000
I.P. – 15	7710.600	5275.300
I.P. – 16	7732.300	5220.000
I.P. – 17	7727.000	5114.400

Notes:
indicates the required relocation of the existing drain ditch.

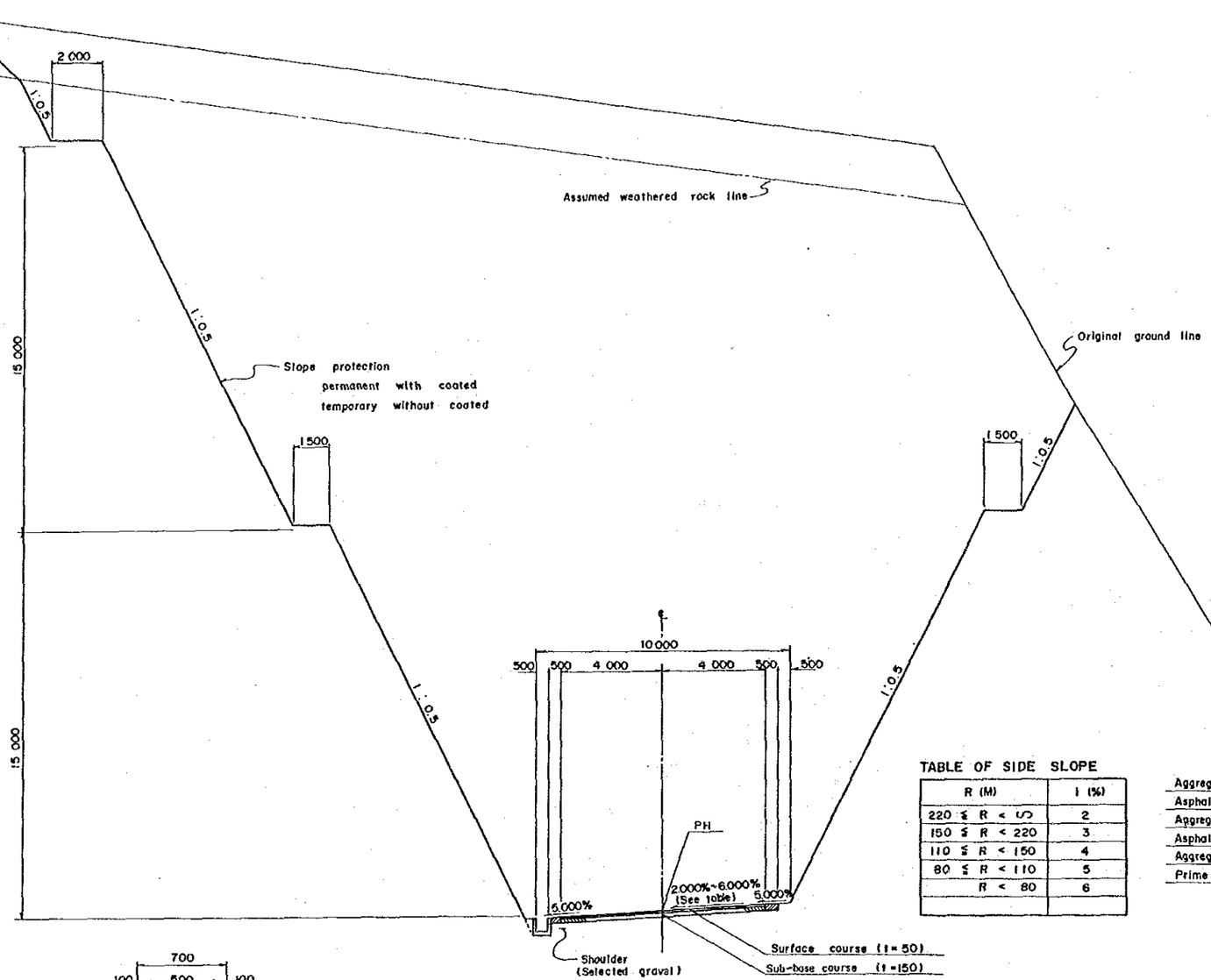
IA : Inter Angle (Degree)
R : Radius (m)
TL : Tangent Length (m)
CL : Curve Length (m)
SL : Secant Length (m)

SCALE 0 100m

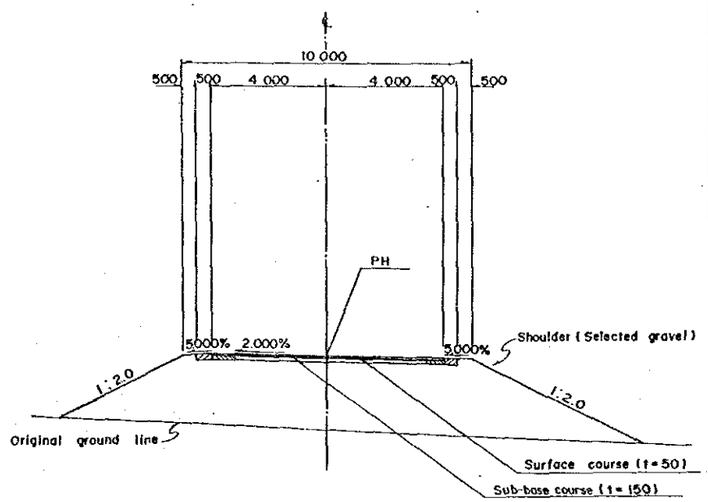
PREPARATORY WORKS
HAUL ROAD TO QUARRY SITE
PLAN

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.2



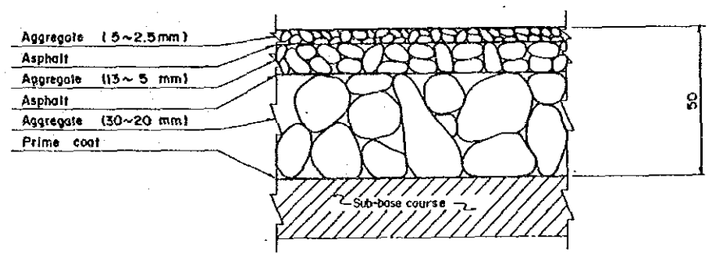
CUT SECTION SCALE A



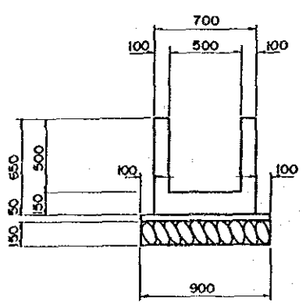
EMBANKMENT SECTION SCALE A

TABLE OF SIDE SLOPE

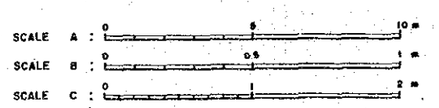
R (M)	I (%)
220 ≦ R < ∞	2
150 ≦ R < 220	3
110 ≦ R < 150	4
80 ≦ R < 110	5
R < 80	6



SURFACE COURSE SCALE B



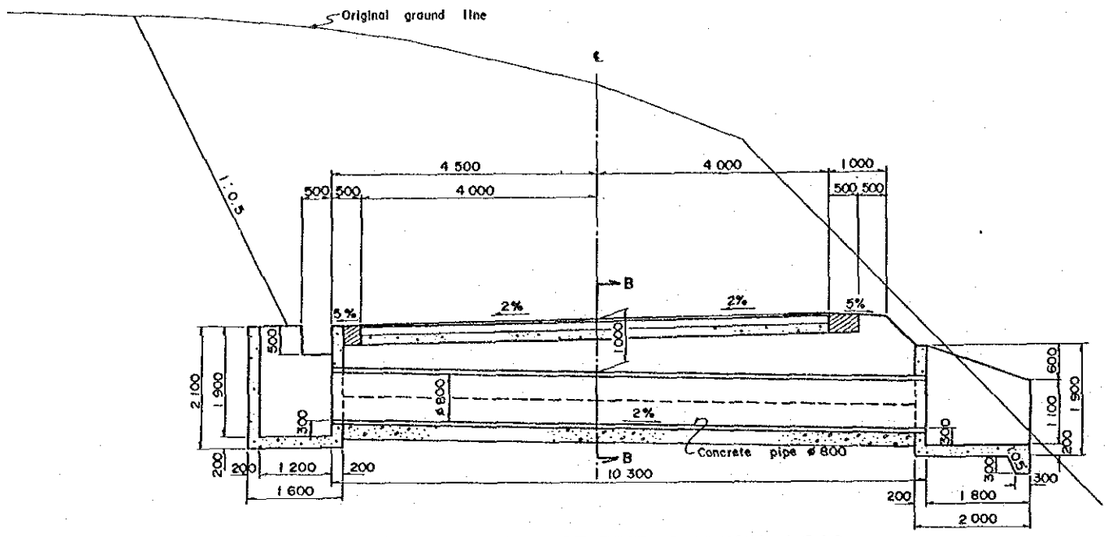
DRAIN DITCH SCALE C



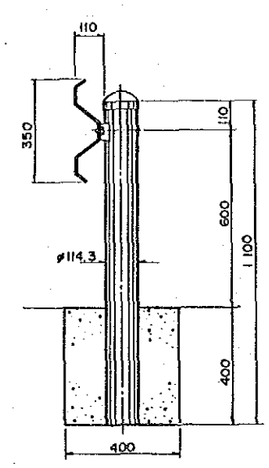
PREPARATORY WORKS
HAUL ROAD TO QUARRY SITE
TYPICAL CROSS SECTIONS

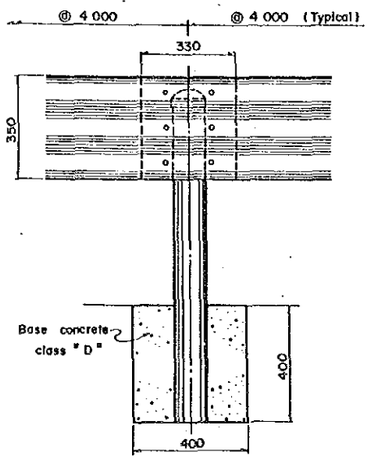
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.3

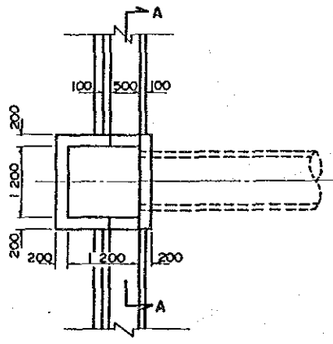


TYPICAL SECTION OF PIPE CULVERT ø 800 SCALE A

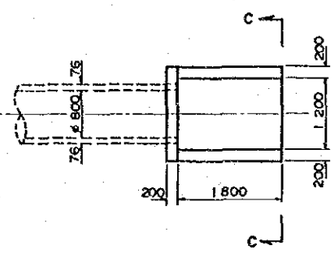




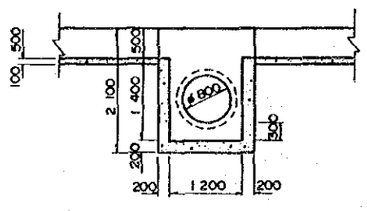
GUARD RAIL SCALE B



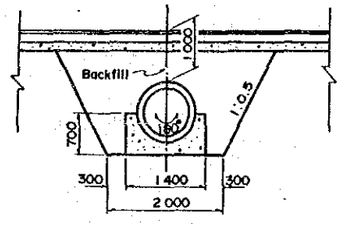
INLET SCALE A



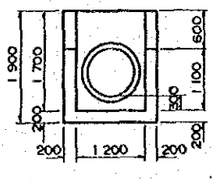
OUTLET SCALE A



SECTION A-A SCALE A



SECTION B-B SCALE A

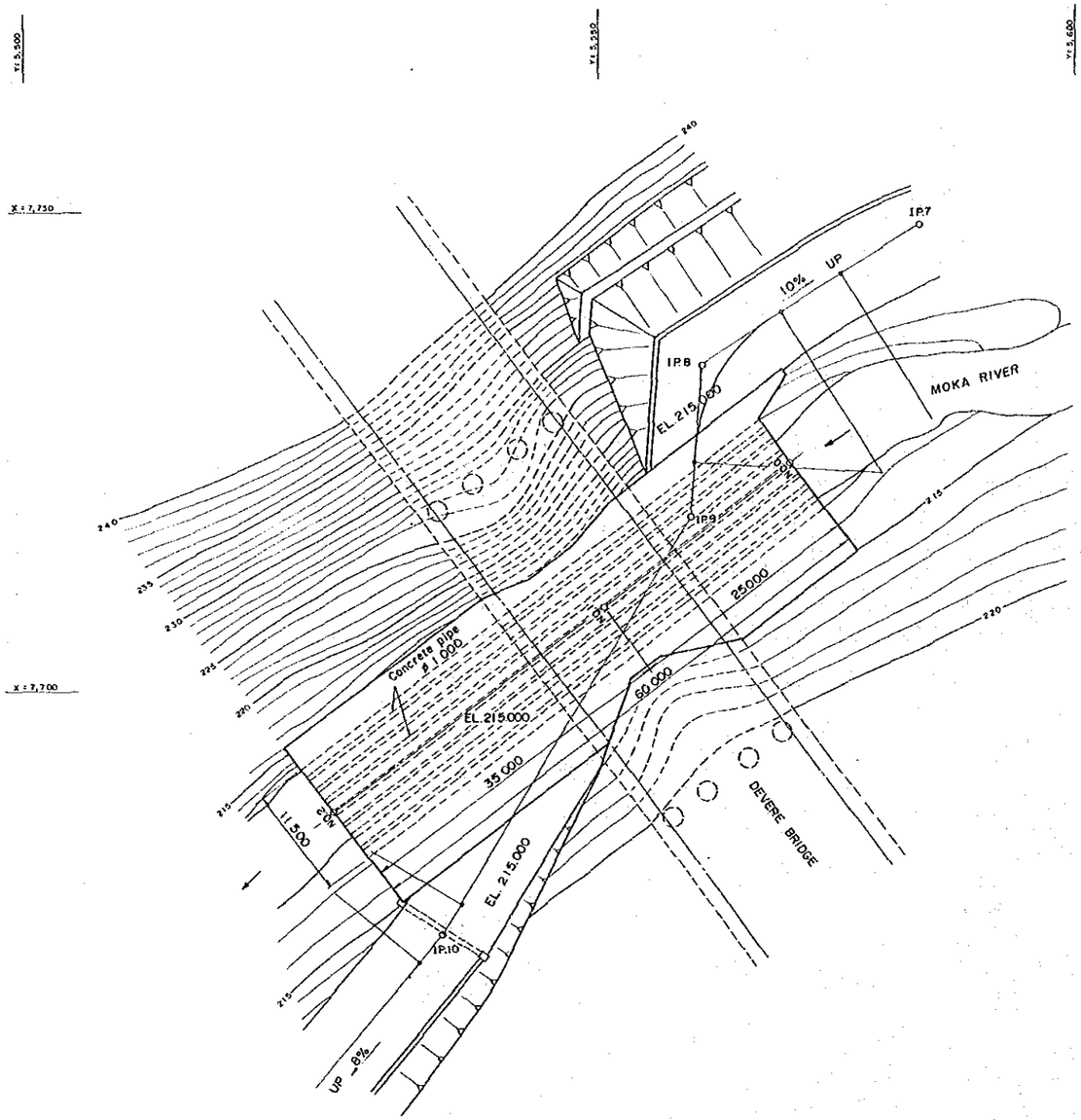


SECTION C-C SCALE A

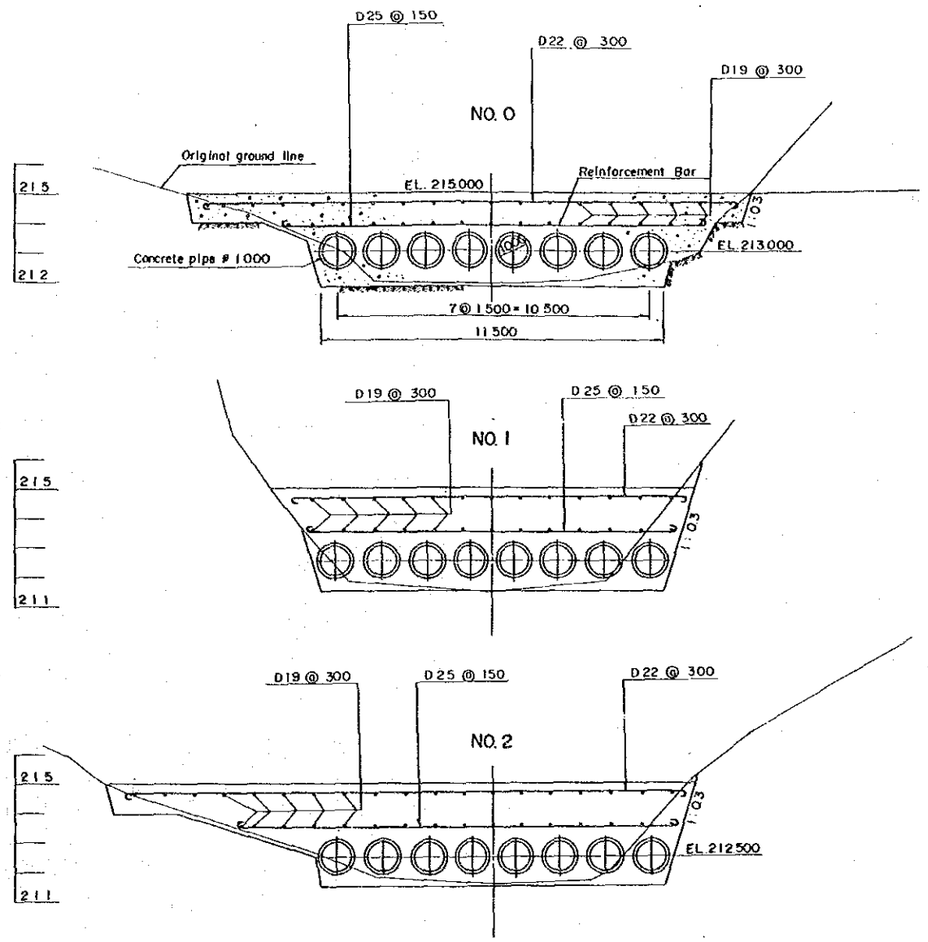
PREPARATORY WORKS
HAUL ROAD TO QUARRY SITE
TYPICAL CROSS SECTION OF PIPE CULVERT AND GUARD RAIL

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.4



PLAN OF SUBMERGIBLE BRIDGE
(SCALE a)

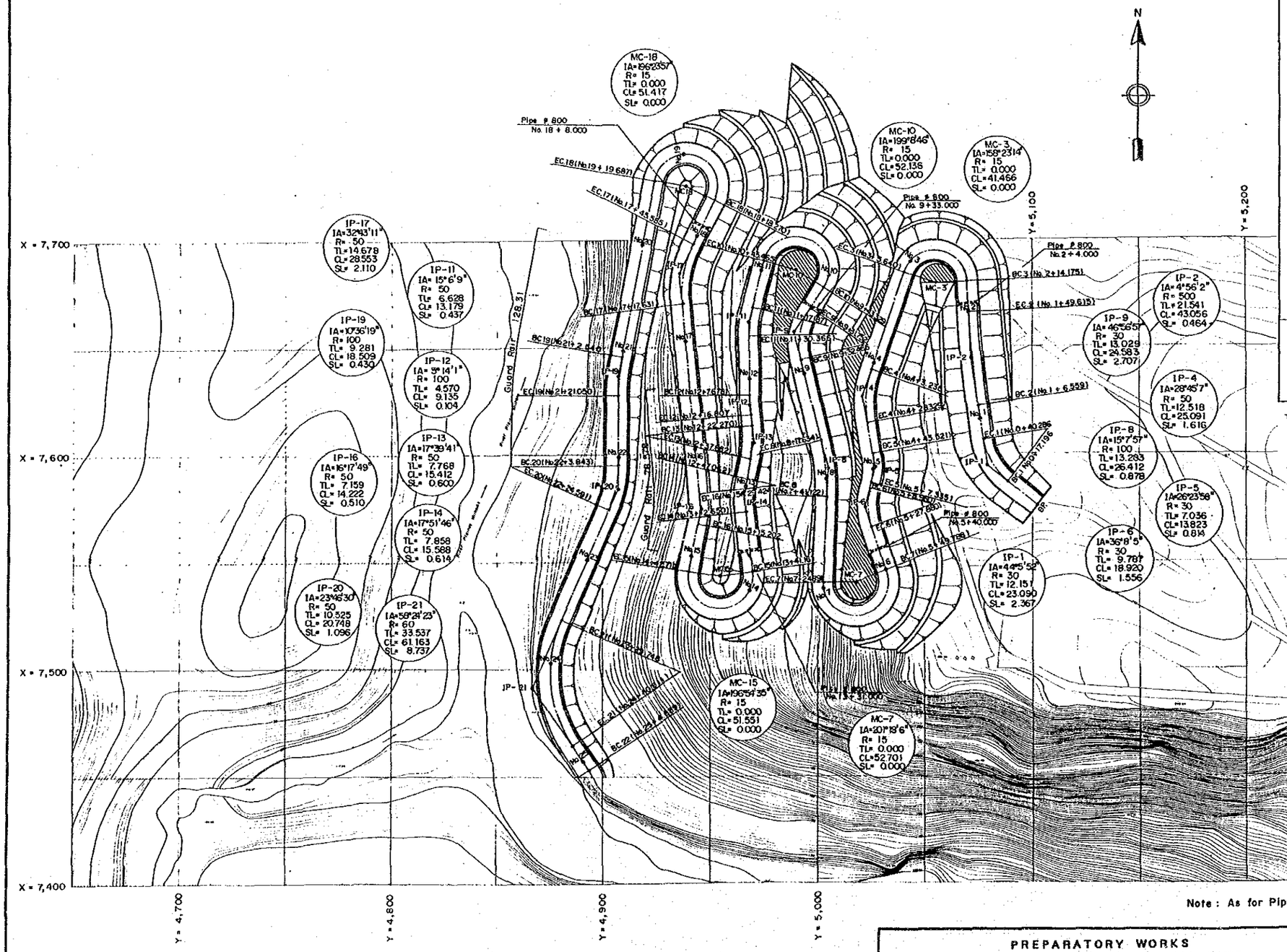


CROSS SECTION
(SCALE b)

SCALE a : 0 10 20 30m

SCALE b : 0 5 10m

PREPARATORY WORKS HAUL ROAD TO QUARRY SITE SUBMERGIBLE BRIDGE	GOVERNMENT OF MAURITIUS PORT LOUIS WATER SUPPLY PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY



IP. No.	COORDINATE X	COORDINATE Y
B P	7577.000	5100.900
I.P.— 1	7595.100	5077.800
I.P.— 2	7644.600	5071.000
M.C.— 3	7679.900	5054.200
I P — 4	7627.500	5020.600
I P — 5	7593.000	5026.700
I P — 6	7575.300	5021.500
M.C.— 7	7540.400	5018.100
I.P.— 8	7592.700	5004.500
I.P.— 9	7656.800	4989.000
M.C.— 10	7685.600	4990.000
I.P.— 11	7661.800	4968.500
I.P.— 12	7623.300	4969.100
I.P.— 13	7605.600	4971.000
I.P.— 14	7581.100	4966.000
M.C.— 15	7543.300	4955.100
I.P.— 16	7575.200	4945.800
I.P.— 17	7684.100	4934.900
M.C.— 18	7724.200	4938.500
I.P.— 19	7636.400	4906.800
I.P.— 20	7583.800	4906.800
I.P.— 21	7493.000	4866.800
I.P.— 22	7441.600	4902.300
I.P.— 23	7401.000	4869.500
I.P.— 24	7372.300	4944.600
I.P.— 25	7352.000	5032.800
I.P.— 26	7350.400	5126.400
I.P.— 27	7334.800	5182.100
I.P.— 28	7293.500	5205.400
I.P.— 29	7232.200	5264.200
E P	7210.000	5265.000
B P'	7422.421	4886.805
I.P.— 1'	7401.000	4869.500
I.P.— 2'	7431.000	4833.400
I.P.— 3'	7414.000	4708.400
E P'	7383.000	4709.000

TYPE OF THE ROAD

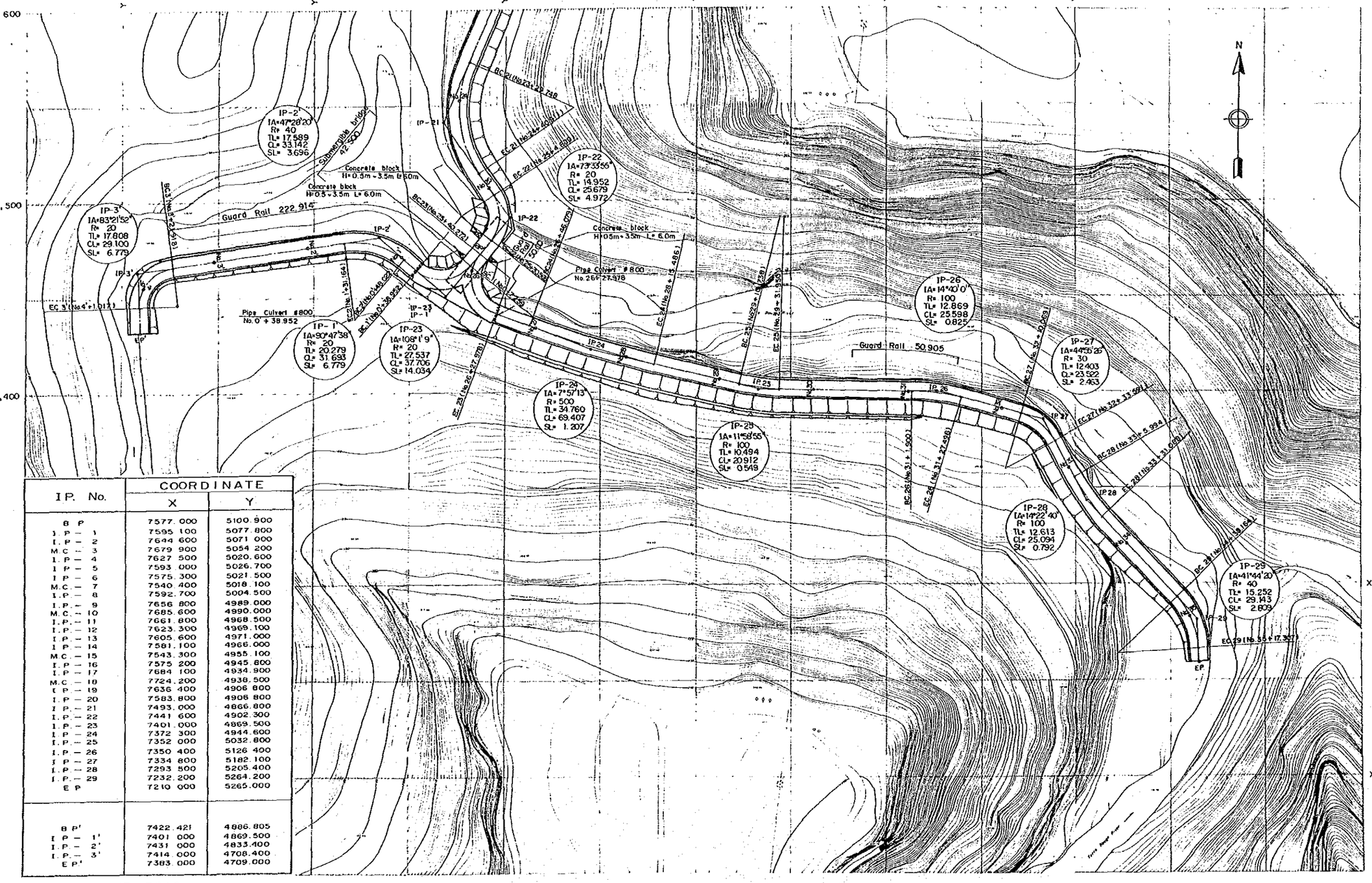
FROM BP. TO NO.7	PERMANENT
FROM NO.7 TO EP	TEMPORALY
FROM BP. TO EP	TEMPORALY

Note : As for Pipe Siphon, See Dwg. No. C—033

PREPARATORY WORKS
ACCESS ROAD AROUND DAM SITE
PLAN (1)

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.5(2)



IP. No.	COORDINATE X	COORDINATE Y
B P	7577.000	5100.900
I.P — 1	7595.100	5077.800
I.P — 2	7644.600	5071.000
M.C — 3	7679.900	5054.200
I.P — 4	7627.500	5020.600
I P — 5	7593.000	5026.700
I P — 6	7575.300	5021.500
M.C. — 7	7540.400	5018.100
I.P. — 8	7592.700	5004.500
I.P. — 9	7656.800	4989.000
M.C. — 10	7685.600	4990.000
I.P. — 11	7661.800	4968.500
I.P. — 12	7623.300	4969.100
I P — 13	7605.600	4971.000
I P — 14	7581.100	4966.000
M.C — 15	7543.300	4955.100
I.P — 16	7575.200	4945.800
I.P — 17	7684.100	4934.900
M.C — 18	7724.200	4938.500
I P — 19	7636.400	4906.800
I.P — 20	7583.800	4908.800
I P. — 21	7493.000	4866.800
I.P. — 22	7441.600	4902.300
I.P. — 23	7401.000	4869.500
I P — 24	7372.300	4944.600
I.P. — 25	7352.000	5032.800
I.P. — 26	7350.400	5126.400
I P — 27	7334.800	5182.100
I.P. — 28	7293.500	5205.400
I.P. — 29	7232.200	5264.200
E P	7210.000	5265.000
B P'	7422.421	4886.805
I P — 1'	7401.000	4869.500
I P. — 2'	7431.000	4833.400
I.P. — 3'	7414.000	4708.400
E P'	7383.000	4709.000

TYPE OF THE ROAD

FROM BP. TO NO.7	PERMANENT
FROM NO.7 TO EP	TEMPORALY
FROM BP. TO EP	TEMPORALY

SCALE 0 50m

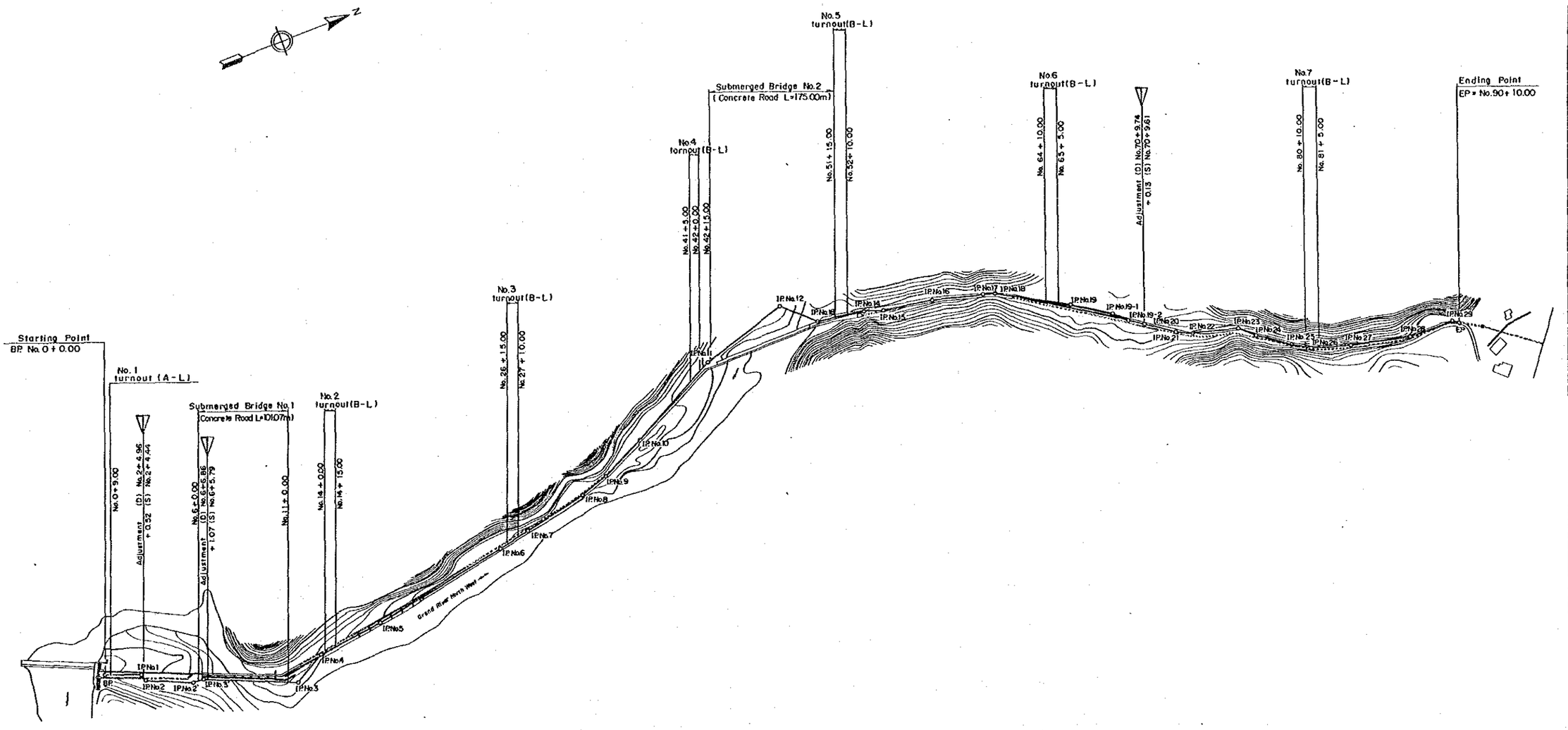
Note : See Dwg. No. C-032 for pipe culvert.

PREPARATORY WORKS
ACCESS ROAD AROUND DAM SITE
PLAN (2)

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.6

GENERAL PLAN

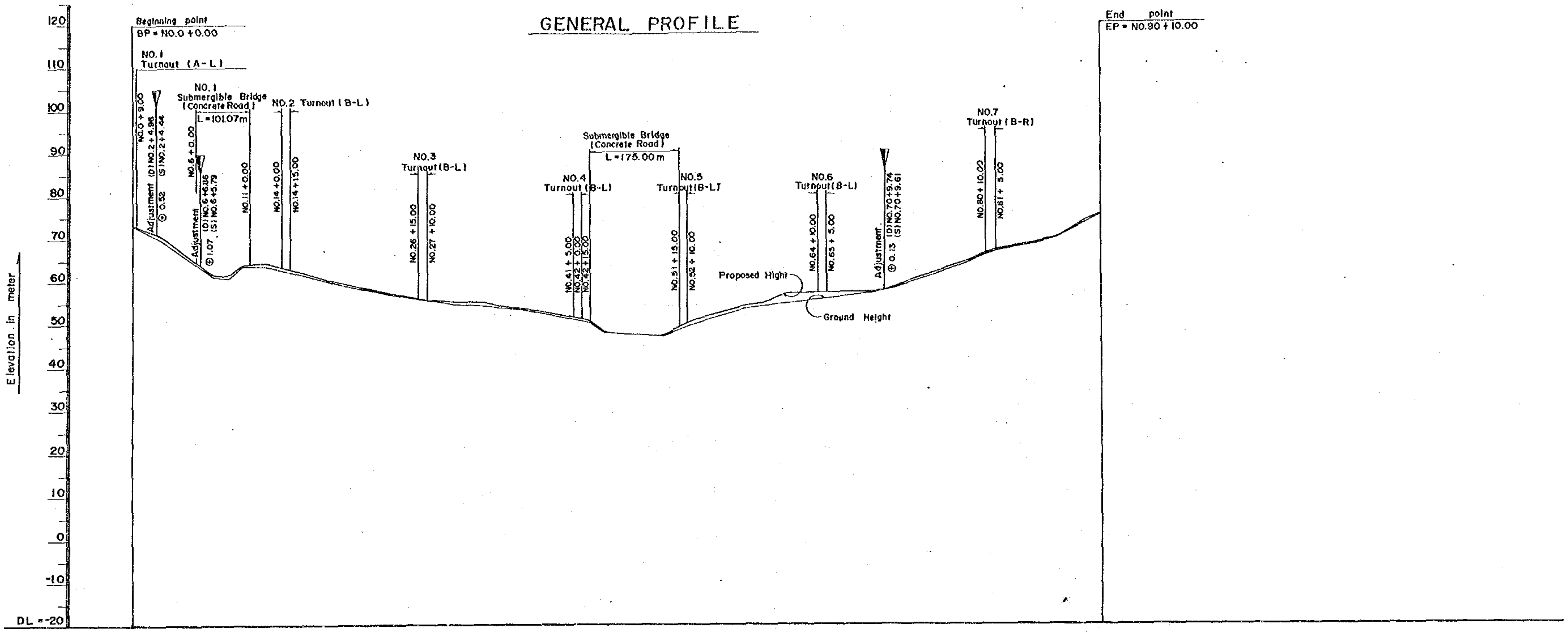


SCALE 0 250m

PREPARATORY WORKS ACCESS ROAD ALONG TRANSMISSION PIPE LINE GENERAL PLAN	GOVERNMENT OF MAURITIUS PORT LOUIS WATER SUPPLY PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.7

GENERAL PROFILE



GRADIENT: I=4.679%, I=-9.399%, LEVEL, I=10.000%, I=11.111%, I=3.200%, I=-4.000%, I=-3.250%, I=-2.556%, I=-1.375%, I=-2.500%, LEVEL, I=-3.1428, I=-0.500, I=-2.500%, I=-10.000, LEVEL, I=15.000%, I=13.600%, I=1.500%, I=13.500%, I=10.333%, [illegible], I=14.867%, I=14.22[illegible]%, I=5.667%, I=14.333, [illegible], I=3.000, I=7.590, I=3.800

STATION	PROPOSED HEIGHT	GROUND HEIGHT	ACCUMULATIVE DISTANCE	DISTANCE
NO. 0	73.50	73.25	0.00	0.00
	71.22	70.36	45.00	45.00
NO. 9	61.65	61.20	151.10	106.10
	61.71	60.78	180.00	28.90
	63.67	63.34	205.00	25.00
	64.27	63.63	250.00	45.00
NO.15	62.77	62.04	300.00	50.00
	60.78	60.55	350.00	50.00
	59.48	59.21	390.00	40.00
NO.24	57.24	56.82	480.00	90.00
NO.28	56.06	55.32	560.00	80.00
NO.30	55.18	54.77	600.00	40.00
	55.00	54.42	635.00	35.00
	54.08	53.64	690.00	35.00
	53.74	53.33	730.00	40.00
NO.44	50.57	50.20	850.00	120.00
	48.11	47.83	880.00	30.00
	47.96	46.79	990.00	110.00
NO.52	50.26	49.37	1040.00	50.00
NO.57	53.83	53.20	1140.00	100.00
NO.59	54.63	53.83	1180.00	40.00
NO.61	56.54	54.47	1220.00	40.00
	57.31	56.85	1370.00	150.00
	57.72	57.30	1410.00	40.00
	60.40	59.90	1470.00	60.00
NO.76	64.25	63.69	1560.00	90.00
	65.86	65.40	1590.00	30.00
NO.81	67.12	66.63	1620.00	30.00
	68.58	68.09	1688.00	68.00
	69.89	69.45	1730.00	42.00
	74.18	73.80	1790.00	60.00
	75.06	75.06	1810.00	20.00

VERTICAL 0 — 50m
HORIZONTAL 0 — 400m

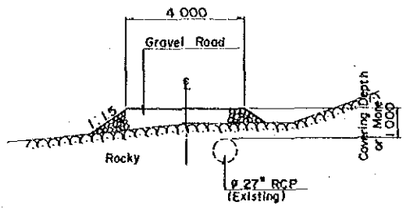
PREPARATORY WORKS
ACCESS ROAD ALONG TRANSMISSION PIPE LINE
GENERAL PROFILE

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

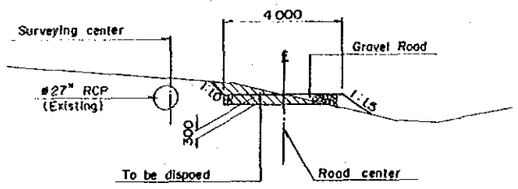
Fig. 3.4.8

STANDARD SECTION SCALE B

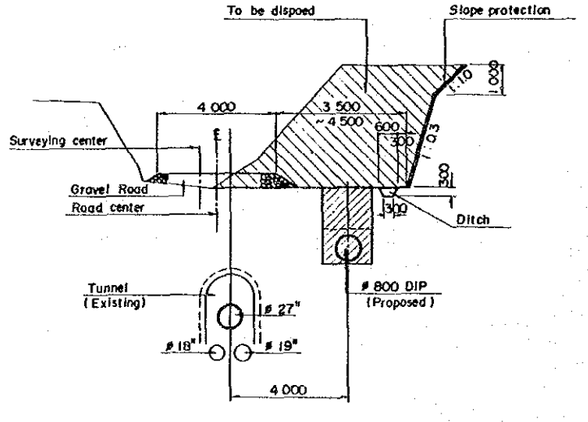
TYPE - 1



TYPE - 2

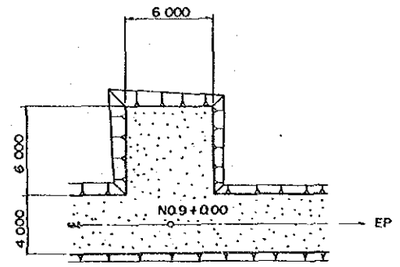


TYPE - 3

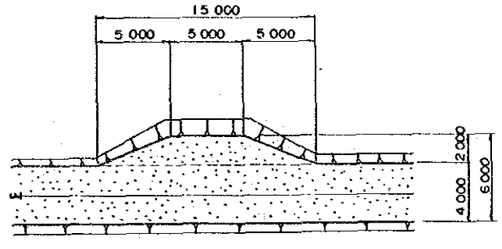


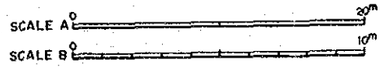
TURNOUT SCALE A

TYPE - A



TYPE - B

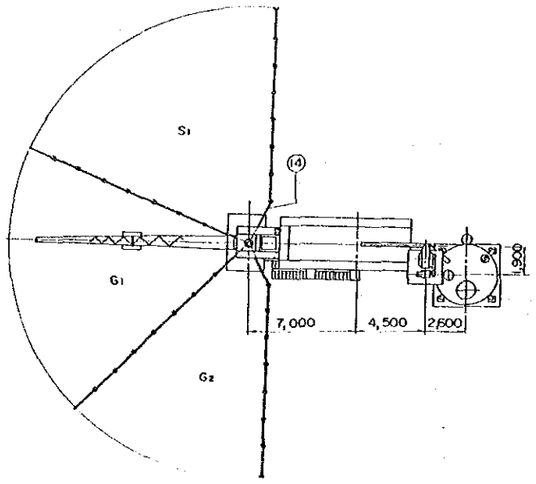




PREPARATORY WORKS
ACCESS ROAD ALONG TRANSMISSION PIPE LINE
STANDARD SECTIONS

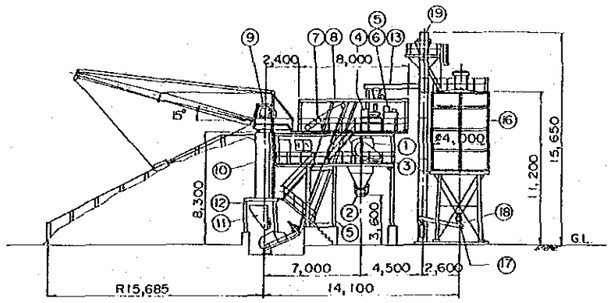
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY



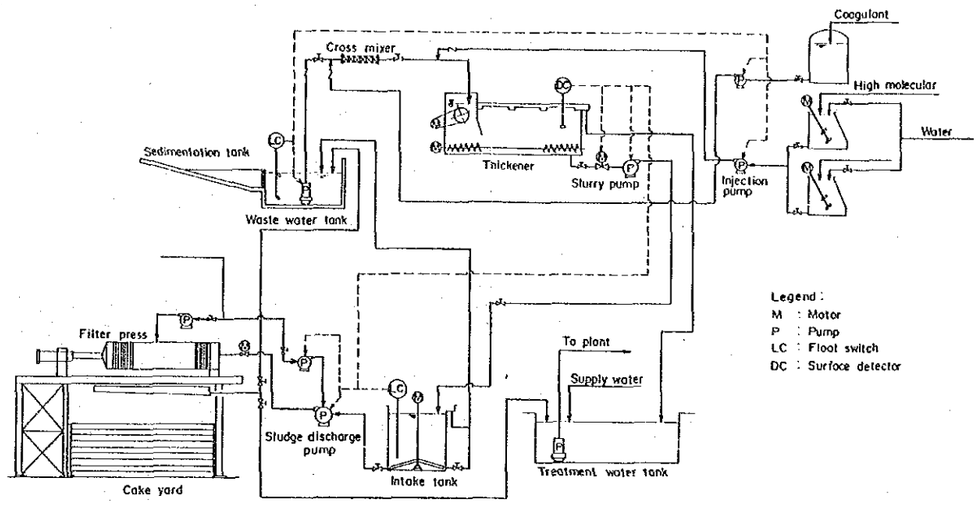
PLAN

1	Mixer
2	Concrete hopper
3	Mixing unit and control room
4	Cement weigher
5	Water weigher
6	Additive agent weigher
7	Winch unit for hoisting on aggregate skip
8	Weigher unit
9	Radial scraper
10	Radial scraper stand
11	Aggregate weighing device
12	Aggregate weighing stand
13	Upper cement screw conveyer
14	Stockyard central part partition baad
15	Stand and guide rolls
16	Cement silo
17	Rotary feeder
18	Under cement screw conveyer
19	Bucket elevator

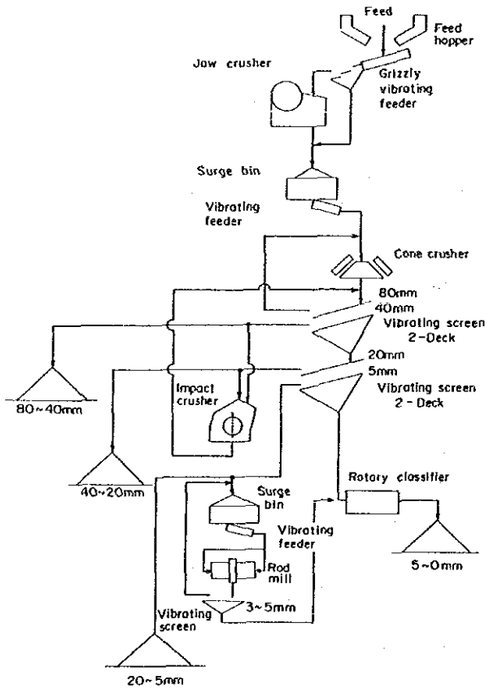


SECTION

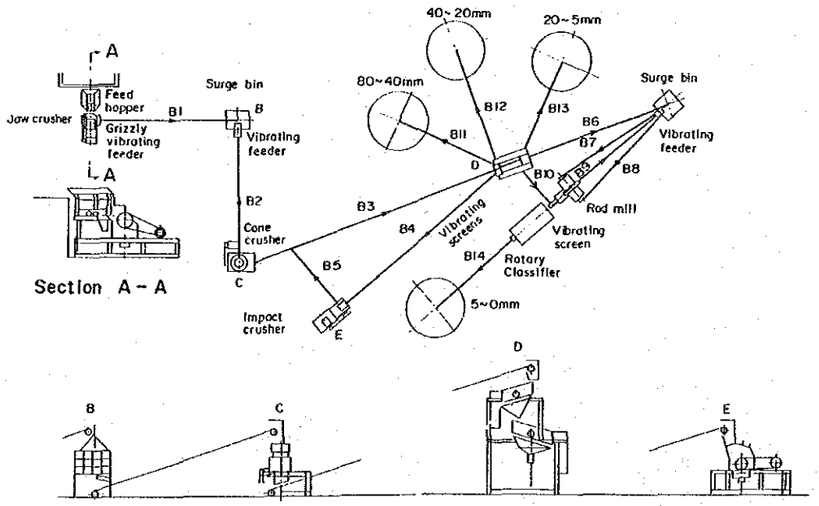
CONCRETE PLANT



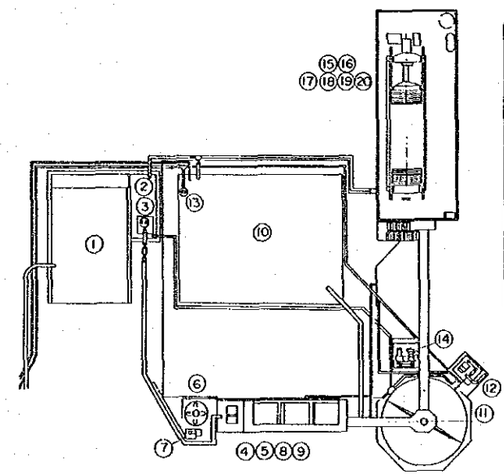
FLOW SHEET OF WASTE WATER TREATMENT



FLOW SHEET FOR AGGREGATE PLANT



AGGREGATE PLANT



1	Sedimentation tank
2	Waste water tank
3	Water pump
4	Thickener
5	Slurry pump
6	Coagulant stock tank
7	Injection pump
8	High molecular tank
9	Injection pump
10	Treatment water tank
11	Intake tank
12	Sludge discharge pump
13	Water supply pump
14	Sludge discharge pump
15	Filter press
16	Filter press stand
17	Filter press building
18	Coke yard
19	Filter cleaning pump
20	Control panel

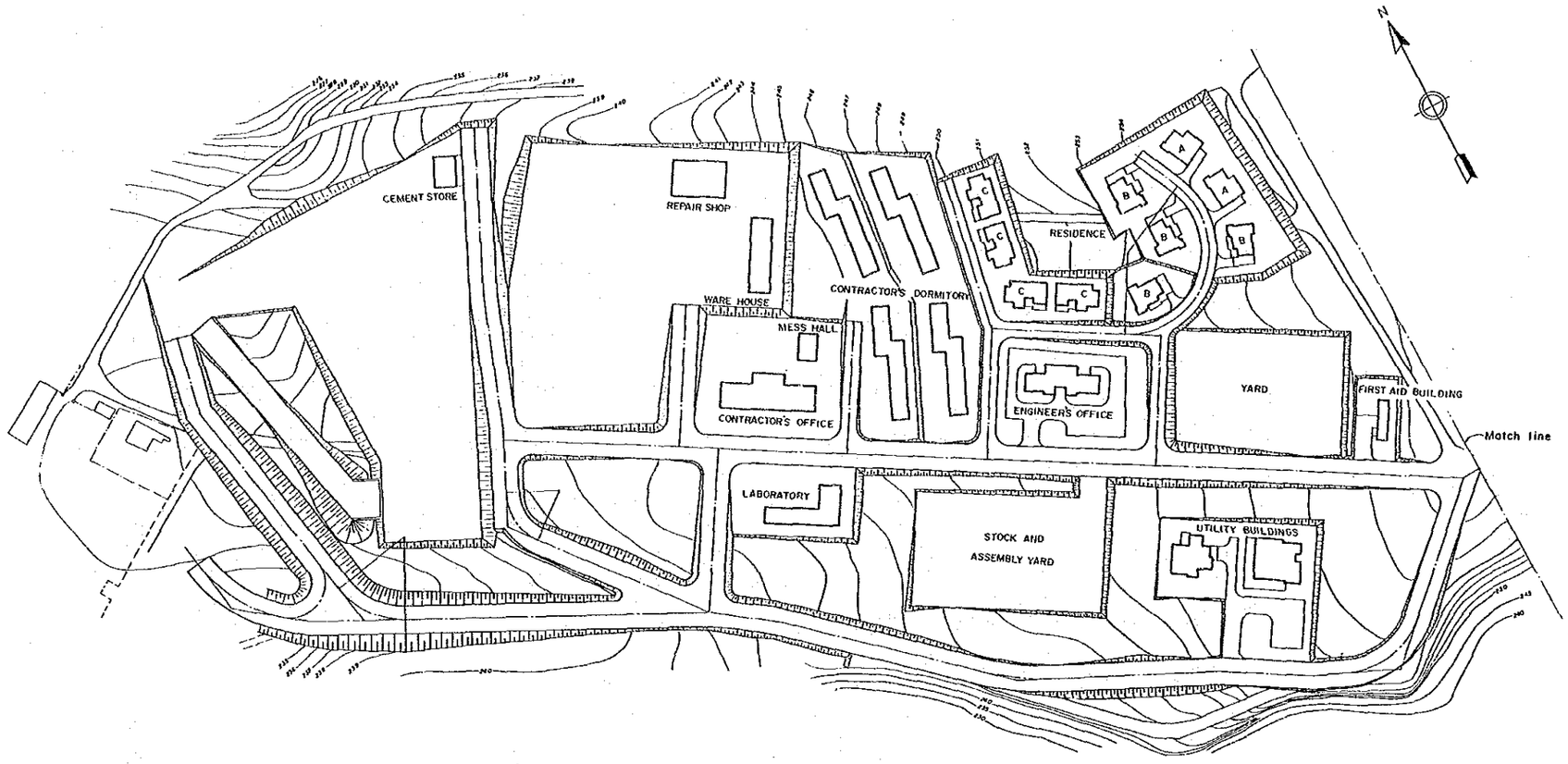
WASTE WATER TREATMENT

Note ; Details shown are only indicative.

PREPARATORY WORKS
CONSTRUCTION PLANT
PLAN, PROFILE AND FLOW SHEET

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

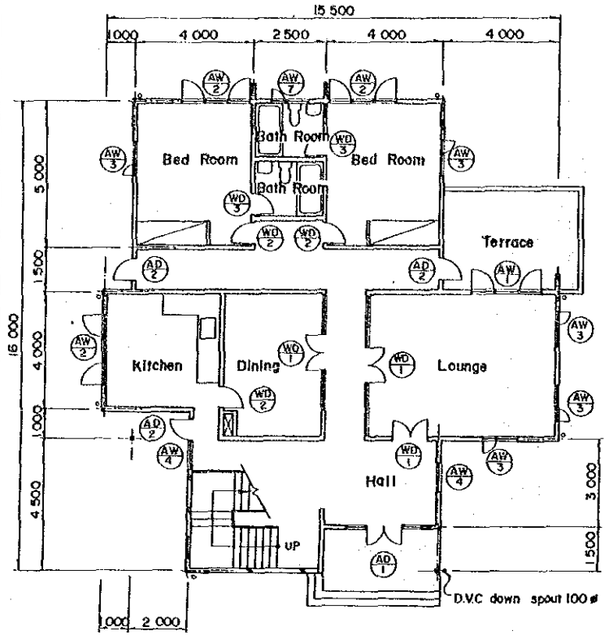
Fig. 3.4.10



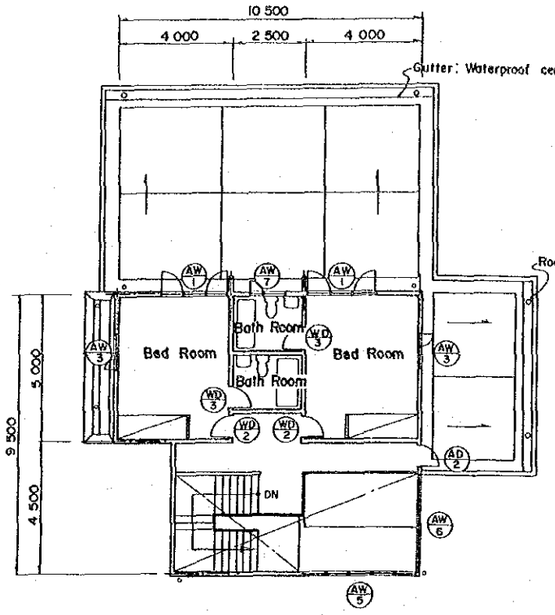
PREPARATORY WORKS
BUILDING WORKS
GENERAL PLAN

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

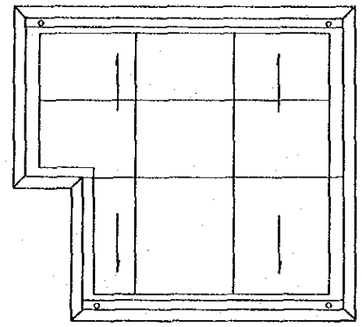
Fig. 3.4.11



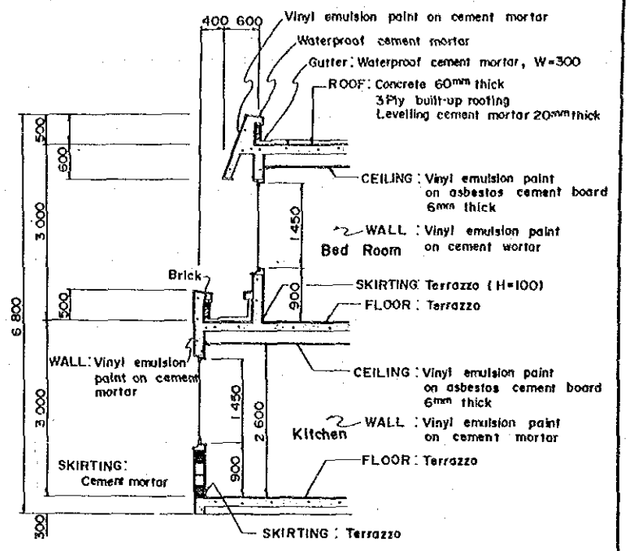
GROUND FL PLAN SCALE A



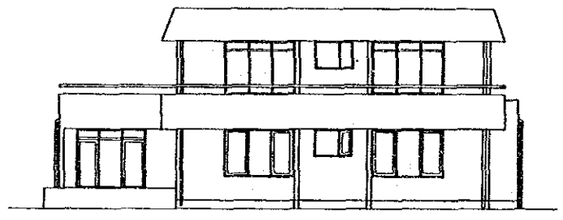
1st FL PLAN SCALE A



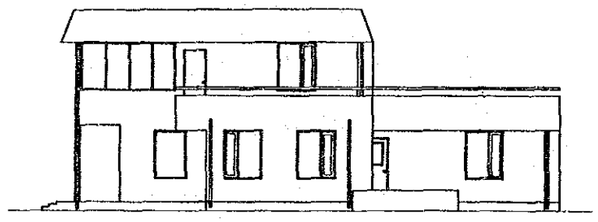
ROOF PLAN SCALE A



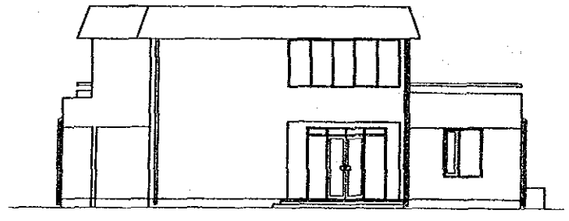
SECTION DETAIL SCALE B



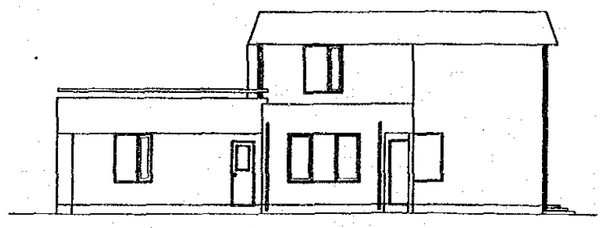
FRONT ELEVATION SCALE A



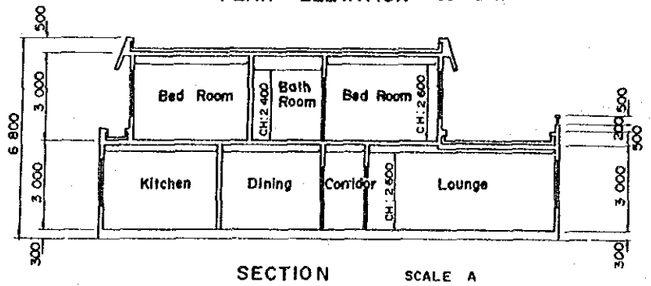
LEFT SIDE ELEVATION SCALE A



REAR ELEVATION SCALE A



RIGHT SIDE ELEVATION SCALE A



SECTION SCALE A

SCALE A 0 5 10m

SCALE B 0 5m

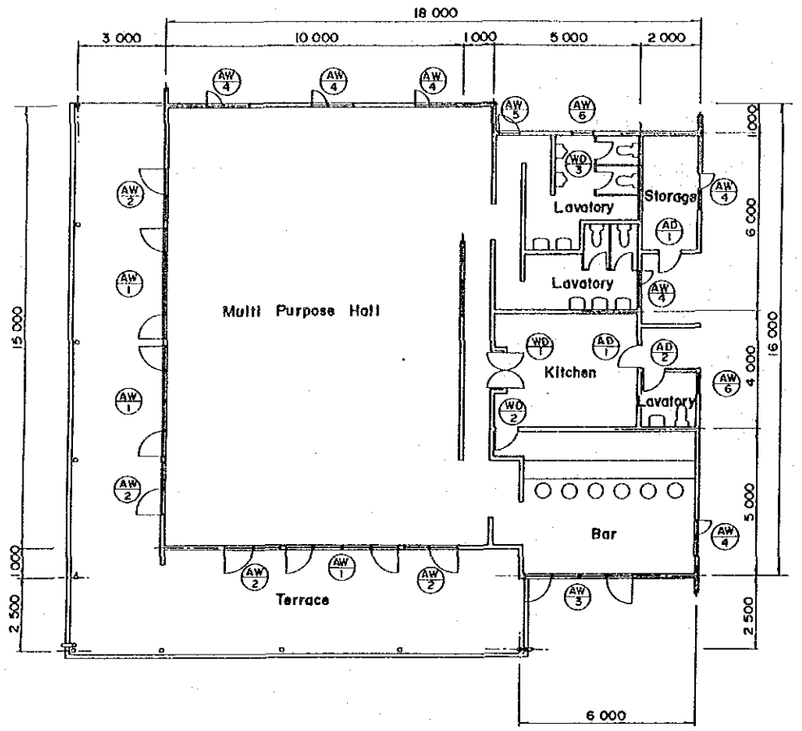
DOOR AND WINDOW SCHEDULE

Symbol	Size(W x H)	Quantity	Depth	Type	Glass	Hardware and accessories	Paint	Remarks
AW 1 Aluminium Window	2 350 x 2 350	3 nos	70mm (for frame)	Fixed & Opened	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 2 Aluminium Window	2 350 x 1 450	3 nos	70mm (for frame)	-Do-	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 3 Aluminium Window	1 200 x 1 450	7 nos	70mm (for frame)	-Do-	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 4 Aluminium Window	1 100 1 450	2 nos	70mm (for frame)	Fixed	Plate glass 5mm thick			
AW 5 Aluminium Window	3 800 x 1 450	1 no	70mm (for frame)	-Do-	Plate glass 5mm thick			
AW 6 Aluminium Window	3 150 x 1 450	1 no	70mm (for frame)	-Do-	Plate glass 5mm thick			
AW 7 Aluminium Window	1 200 x 1 050	2 nos	40mm (for door)	-Do-	Figured glass 4mm thick	Hinges, Handle, Closer		
AD 1 Aluminium Door	2 600 x 2 350	1 no	40mm (for door)	Glazed Flush and Fixed	Figured glass 4mm thick Plate glass 5mm thick	Cylinder door rock, Hinges Flush bolts, Door closer, Door knob		
AD 2 Aluminium Door	800 x 2 100	4 nos	40mm (for door)	Flush and Glazed Flush	Figured glass 4mm thick	Cylinder door rock, Hinges Flush bolts, Door closer, Door knob		
WD 1 Wood Door	1 200 x 2 100	3 nos	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Cylinder door rock, Hinges Flush bolts, Door closer, Door knob	Oil paint	
WD 2 Wood Door	800 x 2 100	5 nos	40mm (for door)	Flush and Glazed Flush	Figured glass 4mm thick	Cylinder door rock, Hinges Flush bolts, Door closer, Door knob	Oil paint	
WD 3 Wood Door	700 x 2 100	4 nos	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Hinges, Door closer Door knob	Oil paint	

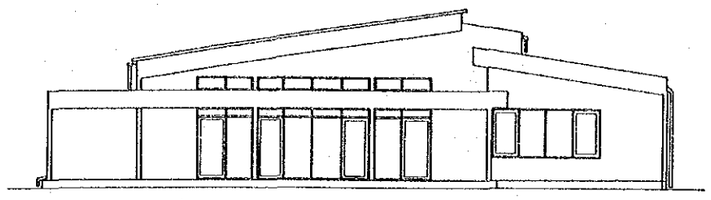
EXTERIOR FINISH SCHEDULE	
ROOF	Concrete 60mm thick, 3 Ply built-up roofing, Levelling cement mortar 20mm
WALL	Vinyl emulsion paint on cement mortar
SKIRTING	Cement mortar, H=300
INTERIOR FINISH SCHEDULE	
FLOOR	Terrazzo (Bath Room (Ground floor): Masaic tile; Bath Room (1st floor): Mosaic tile cement mortar 40mm~30mm thick 3 Ply built-up waterproofing, Levelling cement mortar)
SKIRTING	Terrazzo H=100
WALL	Vinyl emulsion paint on cement mortar (Bath Room: Ceramic tile)
CEILING	Vinyl emulsion paint on asbestos cement board 6mm thick H=2 600 (Bath Room: H=2 400)

PREPARATORY WORKS
BUILDING WORKS
UTILITY BUILDING (A)

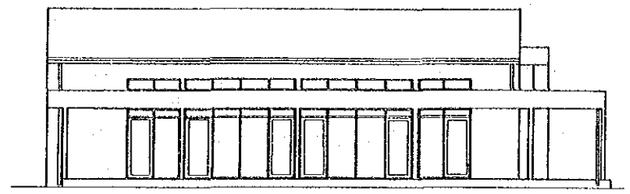
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



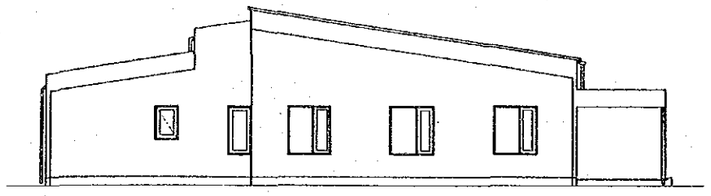
GROUND FL PLAN SCALE A



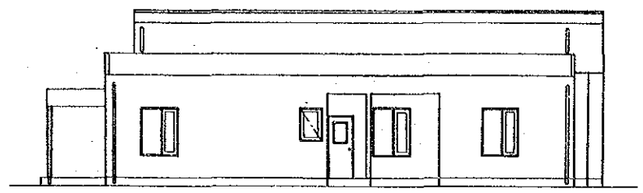
FRONT ELEVATION SCALE A



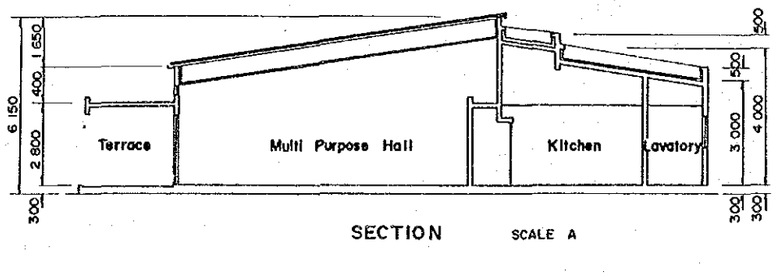
LEFT SIDE ELEVATION SCALE A



REAR ELEVATION SCALE A

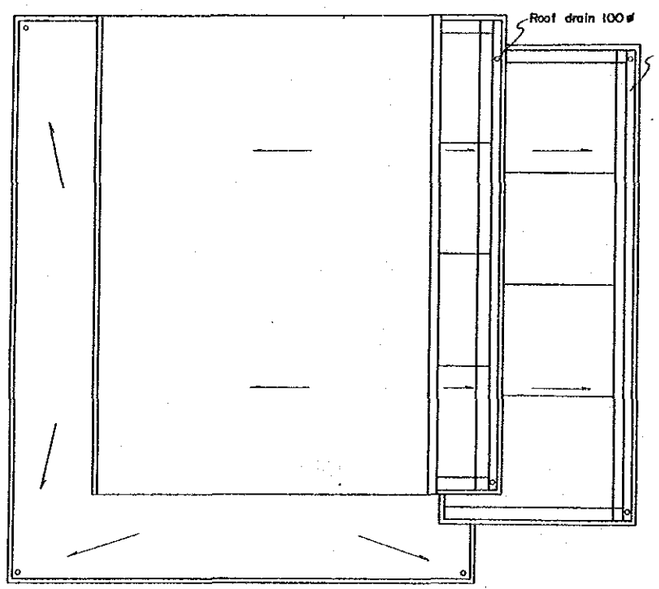


RIGHT SIDE ELEVATION SCALE A

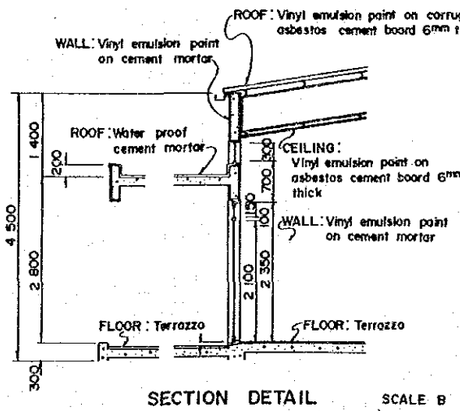


SECTION SCALE A

EXTERIOR FINISH SCHEDULE	
WALL, SKIRTING	Vinyl emulsion paint on cement mortar
ROOF (on steel)	Vinyl emulsion paint on corrugated asbestos cement board 6mm thick
ROOF (on concrete)	Concrete 60mm thick, 3 Ply built-up roofing, Levelling cement mortar 20mm thick
INTERIOR FINISH SCHEDULE	
FLOOR	Terrazzo (Lavatory : Mosaic tile.)
SKIRTING	Terrazzo H=100
WALL	Vinyl emulsion paint on cement mortar (Lavatory : Ceramic tile)
CEILING (on steel)	Vinyl emulsion paint on asbestos cement board 6mm thick
CEILING (on concrete)	Vinyl emulsion paint on exposed concrete H=2 600 (Labatory, H=2 400)



ROOF PLAN SCALE A



SECTION DETAIL SCALE B

DOOR AND WINDOW SCHEDULE

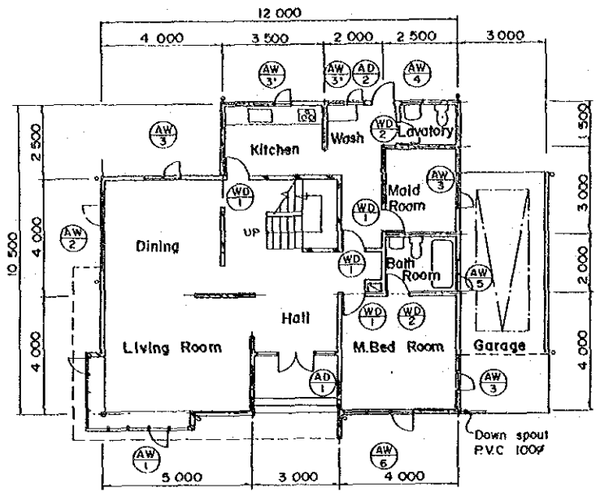
Symbol	Size (W x H)	Quantity	Depth	Type	Glass	Hardwere and accessories	Paint	Remarks
AW 1 Aluminium Window	3 750 x 2 350 (3 750 x 300)	3 nos	70mm (for frame)	Fixed & Opened	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 2 Aluminium Window	1 750 x 2 350 (1 750 x 300)	4 nos	70mm (for frame)	-Do-	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 3 Aluminium Window	3 750 x 1 450	1 no	70mm (for frame)	-Do-	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 4 Aluminium Window	1 200 x 1 450	6 nos	70mm (for frame)	-Do-	Plate glass 5mm thick	Hinges, Handle, Closer		Storage, Lavatory, Bar: Figured glass 4mm thick
AW 5 Aluminium Window	700 x 1 450	1 no	70mm (for frame)	Opened	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 6 Aluminium Window	700 x 1 050	2 nos	70mm (for frame)	Fixed	Figured glass 5mm thick	Hinges, Handle, Closer		
AD 1 Aluminium Door	800 x 2 100	2 nos	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Cylinder door lock, Hinges Flush bolts, Door closer, Door knob		
AD 2 Aluminium Door	700 x 2 100	1 no	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Cylinder door lock Hinges Flush bolts, Door closer, Door knob		
WD 1 Wood Door	1 200 x 2 100	1 no	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Push & Pull plate, Hinges Door closer	Oil paint	
WD 2 Wood Door	800 x 2 100	1 no	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Hinges, Door closer Door knob	Oil paint	
WD 3 Wood Door	600 x 1 800	4 nos	40mm (for door)	Flush		Lavatory hinges Lavatory latch	Plastic laminated plywood	

SCALE A 0 5 10m

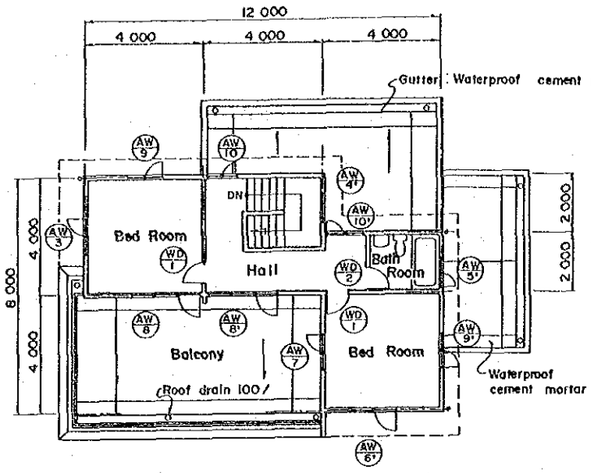
SCALE B 0 5m

PREPARATORY WORKS
BUILDING WORKS
UTILITY BUILDING (B)

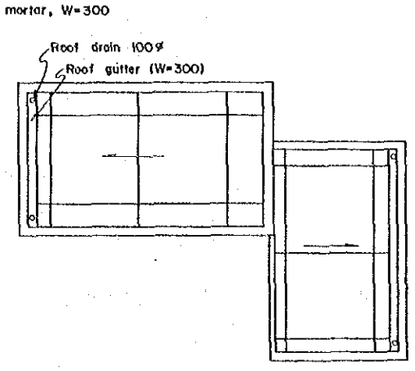
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



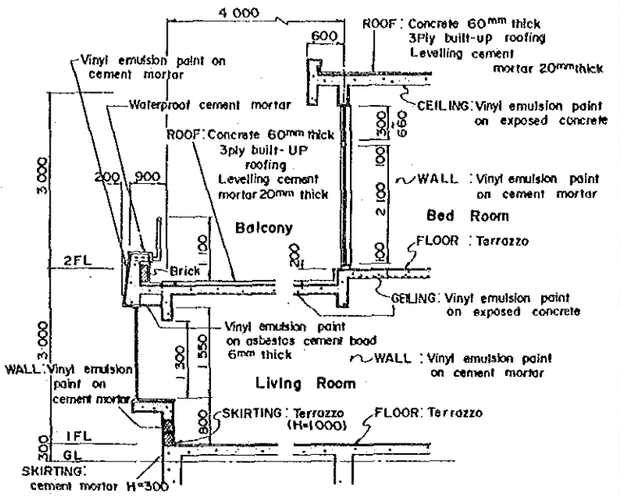
GROUND FL PLAN SCALE A



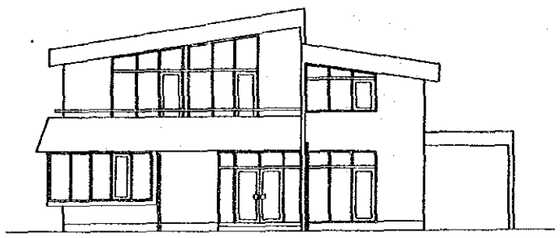
1st FL PLAN SCALE A



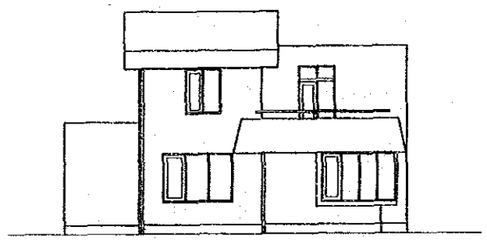
ROOF PLAN SCALE A



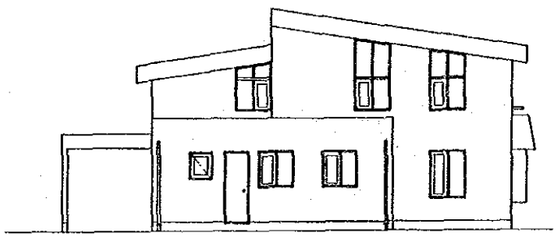
SECTION DETAIL SCALE B



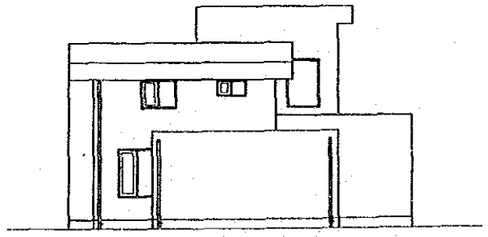
FRONT ELEVATION SCALE A



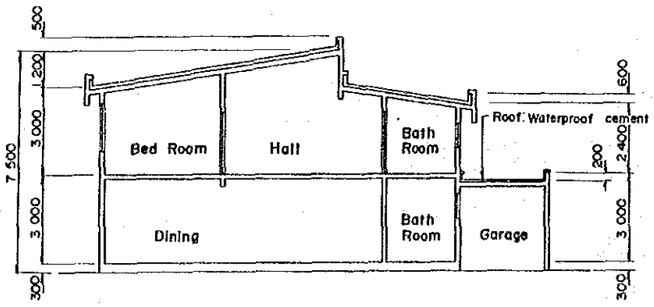
LEFT SIDE ELEVATION SCALE A



REAR ELEVATION SCALE A



RIGHT SIDE ELEVATION SCALE A



SECTION SCALE A

SCALE A 0 5 10m

SCALE B 0 5m

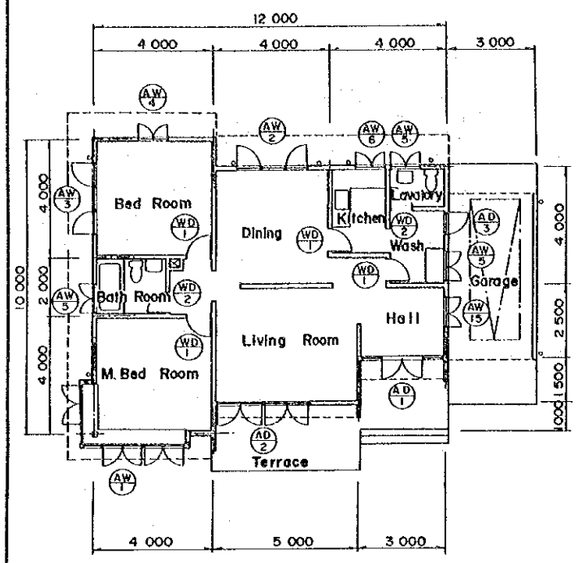
DOOR AND WINDOW SCHEDULE

Symbol		Size (W x H)	Quantity	Depth	Type	Glass	Hardware and accessories	Paint	Remarks
AW 1	Aluminium Window	3 400 / 2 400 x 1 550	2 nos	70mm (for frame)	Fixed & Opened	Plate glass 5mm thick	Hinge, Handle, Closer		
AW 2	Aluminium Window	2 300 x 1 550	1 no	70mm (for frame)	– Do –	Plate glass 5mm thick	Hinge, Handle, Closer		
AW 3 AW 3'	Aluminium Window	(AW-3) 1 100 x 1 550 / (AW-3') 1 100 x 1 150	4 nos / 2 nos	70mm (for frame)	– Do –	Plate glass 5mm thick	Hinge, Handle, Closer		AW-3' : Figured glass 4mm thick
AW 4 AW 41	Aluminium Window	(AW-4) 700 x 850 / (AW-41) 900 x 1 550	1 no / 1 no	70mm (for frame)	Fixed	Plate glass 5mm thick	Hinge, Handle, Closer		AW-4 : Figured glass 4mm thick
AW 5 AW 51	Aluminium Window	(AW-5) 1 100 x 850 / (AW-51) 1 100 450	1 no / 1 no	70mm (for frame)	Fixed & Opened	Plate glass 5mm thick	Hinge, Handle, Closer		
AW 6 AW 61	Aluminium Window	(AW-6) 2 300 x 2 350 / (AW-61) 2300 x 1200-1500	1 no / 1 no	70mm (for frame)	– Do –	Plate glass 5mm thick	Hinge, Handle, Closer		
AW 7	Aluminium Window	1 100 x 2 350	1 no	70mm (for frame)	– Do –	Plate glass 5mm thick	Hinge, Handle, Closer		
AW 8 AW 81	Aluminium Window	(AW-8) 2300 x 2600-2900 / (AW-81) 2300 x 2950-3300	1 no / 1 no	70mm (for frame)	– Do –	Plate glass 5mm thick	Hinge, Handle, Closer		
AW 9 AW 91	Aluminium Window	(AW-9) 1100 x 800-1950 / (AW-91) 1100 x 900	1 no / 1 no	70mm (for frame)	– Do –	Plate glass 5mm thick	Hinge, Handle, Closer		
AW 10 AW 101	Aluminium Window	(AW-10) 1100 x 2000-2400 / (AW-101) 1100 x 400-1600	1 no / 1 no	70mm (for frame)	– Do –	Plate glass 5mm thick	Hinge, Handle, Closer		
AD 1	Aluminium Door	2 750 x 2 350	1 no	70mm (for frame)	Fixed Flush	Plate glass 5mm thick	Cylinder door lock, Hinges Door closer, Door knob		
AD 2	Aluminium Door	700 x 2 350	1 no	70mm (for frame)	Flush		Cylinder door lock, Hinges Door closer, Door knob		
WD 1	Wood Door	850 x 2 100	6 nos	40mm (for frame)	Flush		Cylinder door lock, Hinges Door closer, Door knob	Oil paint	
WD 2	Wood Door	750 x 2 100	3 nos	40mm (for frame)	Flush	Figured glass 4mm thick	Push & Pull plate Hinges, Closer	Oil pait	

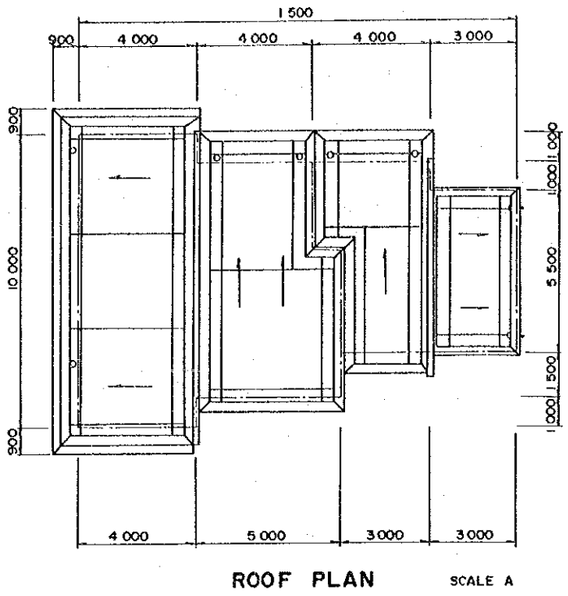
EXTERIOR FINISH SCHEDULE	
WALL	Vinyl emulsion paint on cement mortar
ROOF	Concrete 60mm thick, 3 Ply built-up roofing, Levelling cement mortar 20mm thick
SKIRTING	Cement mortar H=300
INTERIOR FINISH SCHEDULE	
FLOOR	Terrazzo (Bath Room & Lavatry (Ground floor) Mosaik tile / Bath Room (1st floor) Mosaic tile, Waterproof cement mortar 40 ~ 30 thick, 3Ply built-up roofing, Levelling cement mortar)
SKIRTING	Terrazzo H=100
WALL	Vinyl emulsion paint on cement mortar (Bath Room & Lavatory : Ceramic tile)
CEILING	Vinyl emulsion paint on exposed concrete

PREPARATORY WORKS
BUILDING WORKS
RESIDENCE TYPE–A

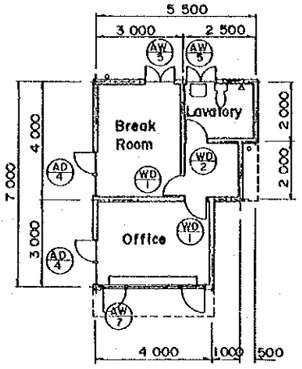
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



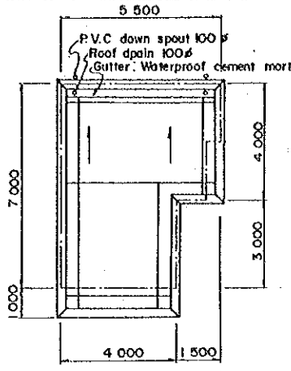
GROUND FL PLAN SCALE A



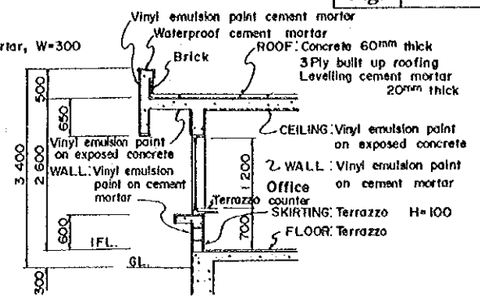
ROOF PLAN SCALE A



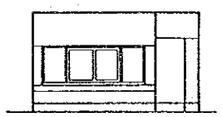
GROUND FL PLAN SCALE A



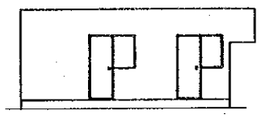
ROOF PLAN SCALE A



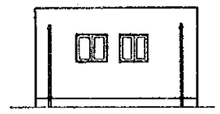
SECTION DETAIL SCALE B



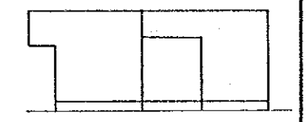
FRONT ELEVATION SCALE A



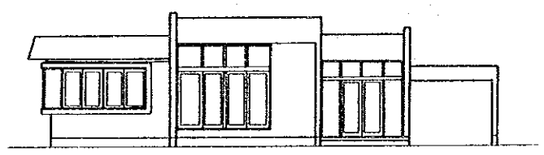
LEFT SIDE ELEVATION SCALE A



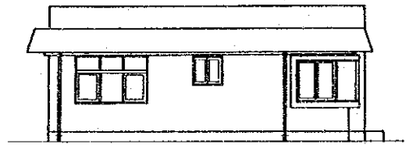
REAR ELEVATION SCALE A



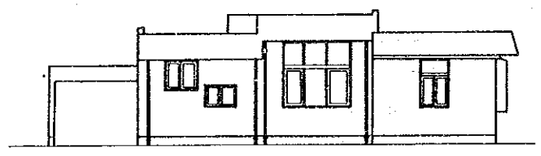
RIGHT SIDE ELEVATION SCALE A



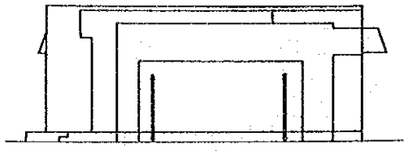
FRONT ELEVATION SCALE A



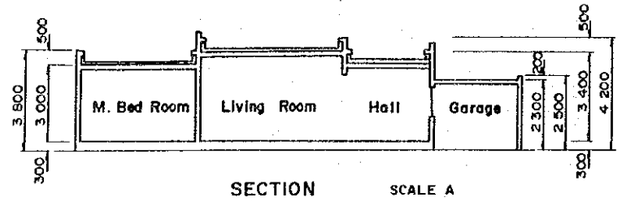
LEFT SIDE ELEVATION SCALE A



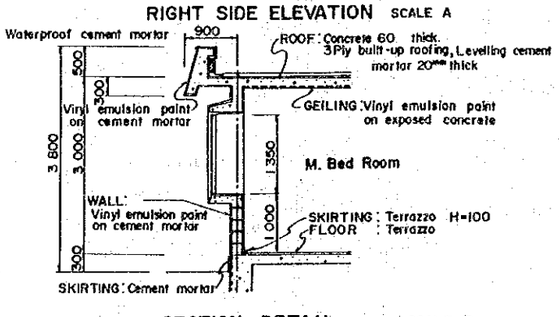
REAR ELEVATION SCALE A



RIGHT SIDE ELEVATION SCALE A



SECTION SCALE A



SECTION DETAIL SCALE B

SCALE A 0 5 10m

SCALE B 0 5m

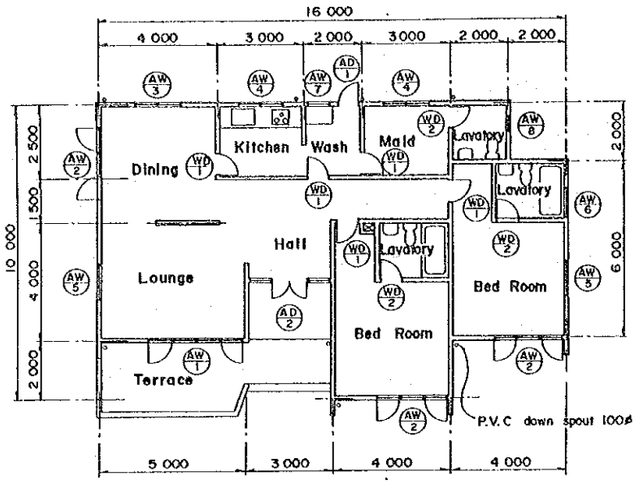
DOOR AND WINDOW SCHEDULE

Symbol	Size (WxH)	Residence type B	Guard House	Depth	Type	Glass	Hardware and accessories	Paint	Remarks
AW 1	Aluminium window	5 500 x 1 350	1 no	70mm (for frame)	Fixed & Opened	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 2	Aluminium window	2 350 x 2 150	1 no	70mm (for frame)	—Do—	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 3	Aluminium window	2 350 x 1 550	1 no	70mm (for frame)		Plate glass 5mm thick	Hinges, Closer, Handle		
AW 4	Aluminium window	1 000 x 1 550	1 no	70mm (for frame)		Plate glass 5mm thick	Hinges, Closer, Handle		
AW 5	Aluminium window	1 000 x 950	4 nos	2nos 70mm (for frame)	Opened	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 6	Aluminium window	1 000 x 600	1 no	70mm (for frame)	—Do—	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 7	Aluminium window	3 500 x 1 200		1 no 70mm (for frame)	Fixed & Opened	Plate glass 5mm thick	Hinges, Closer, Handle		
AD 1	Aluminium door	2 750 x 2 500	1 no	40mm (for door)	Fixed	Plate glass 5mm thick	Cylinder door lock, hinges Flush bolts, Door closer, Door knob		
AD 2	Aluminium door	3 070 x 2 850	1 no	40mm (for door)	Fixed	Plate glass 5mm thick	Cylinder door lock, hinges Flush bolts, Door closer, Door knob		
AD 3	Aluminium door	800 2 100	1 no	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Cylinder door lock, hinges Flush bolts, Door closer, Door knob		
AD 4	Aluminium door	1 570 x 2 100		2nos 40mm (for door)	Flush and Fixed	Plate glass 5mm thick	Cylinder door lock, hinges Flush bolts, Door closer, Door knob		
WD 1	Wood door	800 x 2 100	4 nos	2nos 40mm (for door)	Flush and Glazed Flush	Figured glass 4mm thick	Cylinder door lock, hinges Flush bolts, Door closer, Door knob	Oil paint	
WD 2	Wood door	700 x 2100	2 nos	1 no 40mm (for door)	Glazed Flush	Figured glass 4mm thick	Hinges, Door closer, Door knob	Oil paint	

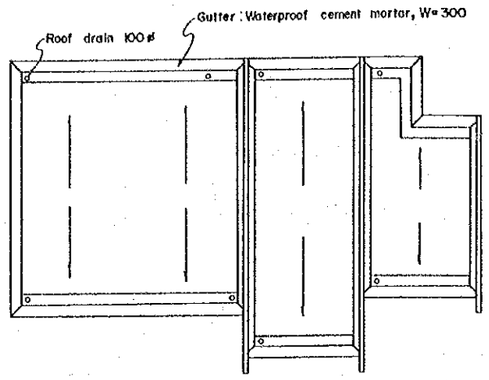
EXTERIOR FINISH SCHEDULE	
ROOF	Concrete 60mm thick, 3 Ply built-up roofing, Leveling cement mortar 20mm thick (Garage: Waterproof cement mortar)
WALL	Vinyl emulsion paint on cement mortar
SKIRTING	Cement mortar H=300
INTERIOR FINISH SCHEDULE	
FLOOR	Terrazzo (Bath Room: Mosaic tile)
SKIRTING	Terrazzo H=100
WALL	Vinyl emulsion paint on cement mortar (Bath Room: Ceramic tile)
CEILING	Vinyl emulsion paint on exposed concrete

PREPARATORY WORKS
BUILDING WORKS
RESIDENCE TYPE—B

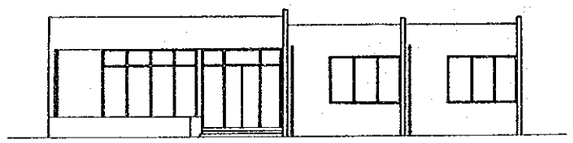
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



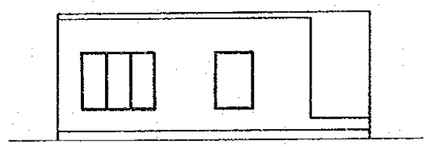
GROUND FL PLAN SCALE A



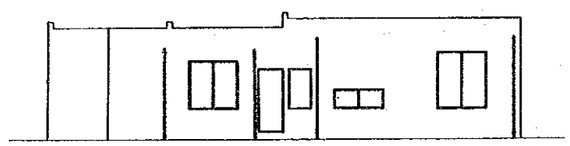
ROOF PLAN SCALE A



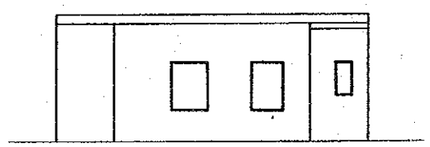
FRONT ELEVATION SCALE A



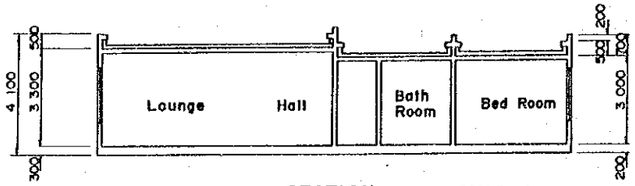
LEFT SIDE ELEVATION SCALE A



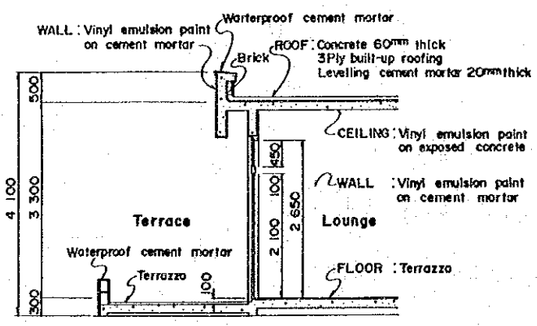
REAR ELEVATION SCALE A



RIGHT SIDE ELEVATION SCALE A



SECTION SCALE A



SECTION DETAIL SCALE B

SCALE A 0 5 10m

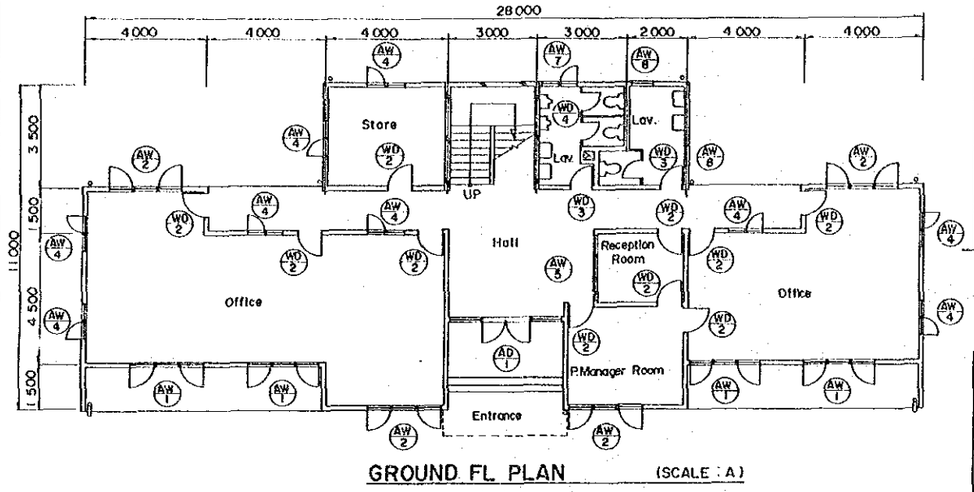
SCALE B 0 5m

DOOR AND WINDOW SCHEDULE								
Symbol	Size (W x H)	Quantity	Depth	Type	Glass	Hardware and accessories	Paint	Remarks
AW 1 Aluminium Window	3 100 x 2 650	1 no	70mm (for frame)	Fixed & Opened	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 2 Aluminium Windo	2 300 x 1 450	3 nos	70mm (for frame)	– Do–	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 3 Aluminium Window	1 500 x 1 750	1 no	70mm (for frame)	Fixed	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 4 AW 4T Aluminium Window	1 500 x 1 450 (1 500 x 600)	1 + 1 nos	70mm (for frame)	Fixed	Plate glass 5mm thick	Hinges, Closer, Handle		AW-4T : Figured glass 4mm thick
AW 5 Aluminium Window	1 200 x 1 450	2 nos	70mm (for frame)	Fixed	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 6 Aluminium Window	1 000 x 1 450	1 no	70mm (for frame)	Fixed	Figured glass 5mm thick	Hinges, Closer, Handle		
AW 7 Aluminium Window	700x 1 200	1 no	70mm (for frame)	Fixed	Plate glass 5mm thick	Hinges, Closer, Handle		
AW 8 Aluminum Window	500x 1 050	1 no	70mm (for frame)	Fixed	Figured glass 4mm thick	Hinges, Closer, Handle		
AD 1 Aluminium Door	800x 2 100	1 no	40mm (for door)	Flush		Cylinder door lock, Hinges Flush bolts, Door closer, Door knob		
AD 2 Aluminium Door	2 750 2 650	1 no	40mm (for door)	Flush and Fixed	Plate glass 5mm thick	Cylinder door lock, Hinges Flush bolts, Door closer, Door knob		
WD 1 Wood Door	800x 2 100	5 nos	40mm (for door)	Flush and Glazed Flush	Figured glass 4mm thick	Cylinder door lock, Hinges Door closer, Door knob	Oil paint	
WD 2 Wood Door	700x 2 100	3 nos	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Cylinder door lock, Hinges Door closer, Door knob	Oil paint	

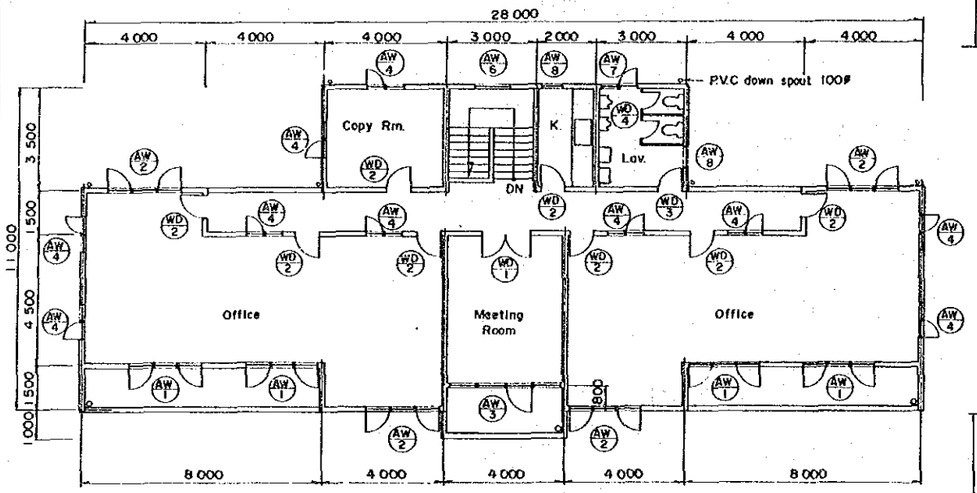
EXTERIOR FINISH SCHEDULE	
WALL	Vinyl emulsion paint on cement mortar
ROOF	Concrete 60mm thick, 3 Ply built-up roofing, Levelling cement mortar 20mm thick
SKIRTING	Cement mortar H=300
INTERIOR FINISH SCHEDULE	
FLOOR	Terrazzo (Lavatory : Mosaic tile)
SKIRTING	Terrazzo H=100
WALL	Vinyl emulsion paint on cement mortar (Bath Room : Ceramic tile)
CEILING	Vinyl emulsion paint on exposed concrete

PREPARATORY WORKS
BUILDING WORKS
RESIDENCE TYPE–C

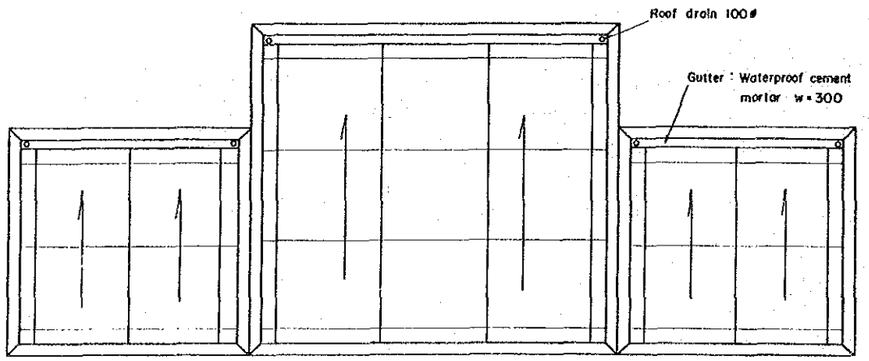
GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



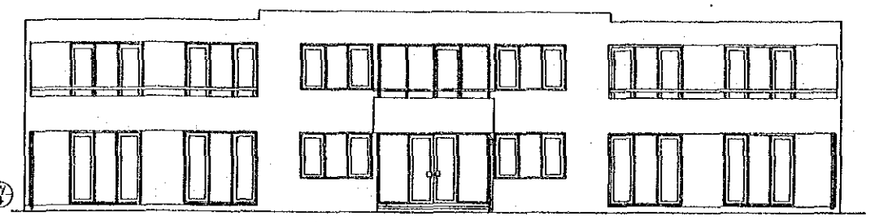
GROUND FL PLAN (SCALE : A)



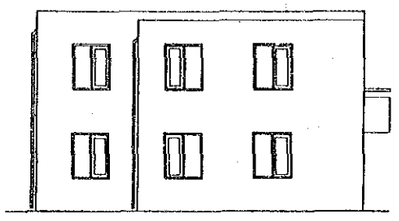
1st FL PLAN (SCALE : A)



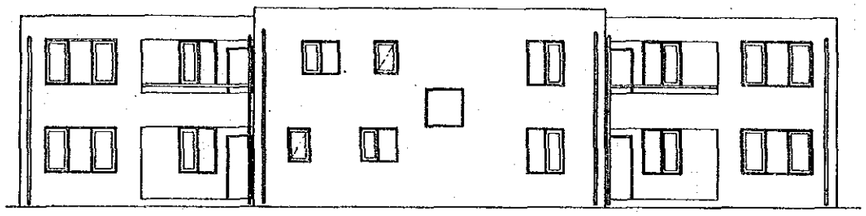
ROOF PLAN (SCALE : A)



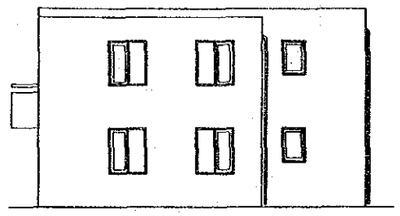
FRONT ELEVATION (SCALE : A)



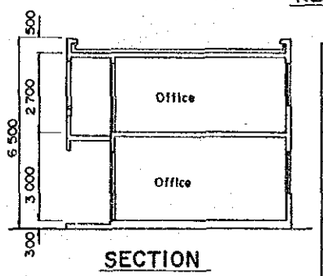
LEFT SIDE ELEVATION (SCALE : A)



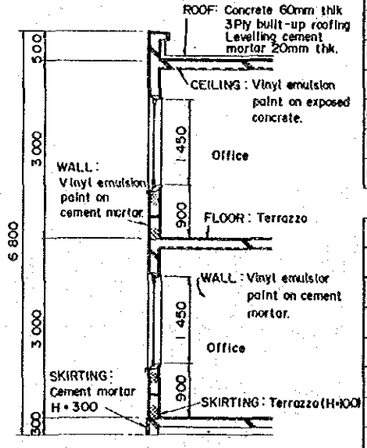
REAR ELEVATION (SCALE : A)



RIGHT SIDE ELEVATION (SCALE : A)



SECTION



SECTION DETAIL (SCALE : B)

DOOR AND WINDOW SCHEDULE

Symbol	Size (W x H)	Quantity	Depth	Type	Glass	Hardware and accessories	Paint	Remarks
AW 1 Aluminium Window	2 400 x 2 350	8 nos	70mm (for frame)	Fixed & Opened	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 2 Aluminium Window	2 400 x 1 450	8 nos	70mm (for frame)	- Do -	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 3 Aluminium Window	3 750 x 2 350	1 no	70mm (for frame)	- Do -	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 4 Aluminium Window	1 200 x 1 450	19 nos	70mm (for frame)	- Do -	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 5 Aluminium Window	2 250 x 1 450	1 no	70mm (for frame)	Fixed	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 6 Aluminium Window	1 200 x 1 200	1 no	70mm (for frame)	Fixed	Plate glass 5mm thick	Hinges, Handle, Closer		
AW 7 Aluminium Window	1 200 x 1 050	2 nos	70mm (for frame)	Fixed & Opened	Figured glass 4mm thick	Hinges, Handle, Closer		
AW 8 Aluminium Window	700 x 1 050	4 nos	70mm (for frame)	Fixed	Figured glass 4mm thick	Hinges, Handle, Closer		
AD 1 Aluminium Door	3 750 x 2 350	1 no	40mm (for door)	Glazed Flush and Fixed	Plate glass 5mm thick	Cylinder door lock, Hinges Flush bolts, Door closer, Door knob		
WD 1 Wood Door	1 600 x 2 100	1 no	40mm (for door)	Flush		Cylinder door lock, Hinges Flush bolts, Door closer, Door knob	Oil paint	
WD 2 Wood Door	800 x 2 100	18 nos	40mm (for door)	Flush and Glazed Flush	Figured glass 4mm thick	Cylinder door lock, Hinges Flush bolts, Door closer, Door knob	Oil paint	
WD 3 Wood Door	700 x 2 100	3 nos	40mm (for door)	Glazed Flush	Figured glass 4mm thick	Hinges, Door closer, Door knob	Oil paint	
WD 4 Wood Door	600 x 1 800	5 nos	40mm (for door)	Flush		Lavatory hinges Lavatory latch	Plastic laminated plywood	

EXTERIOR FINISH SCHEDULE

ROOF	Concrete 60mm thick, 3 Ply built-up roofing, Levelling cement mortar 20mm thick
WALL	Vinyl emulsion paint on cement mortar
SKIRTING	Cement mortar H=300

INTERIOR FINISH SCHEDULE

FLOOR	Terrazzo (Lavatory : Mosaic tile)
SKIRTING	Terrazzo H=100
WALL	Vinyl emulsion paint on cement mortar (Lavatory : Ceramic tile)
CEILING	Vinyl emulsion paint on exposed concrete

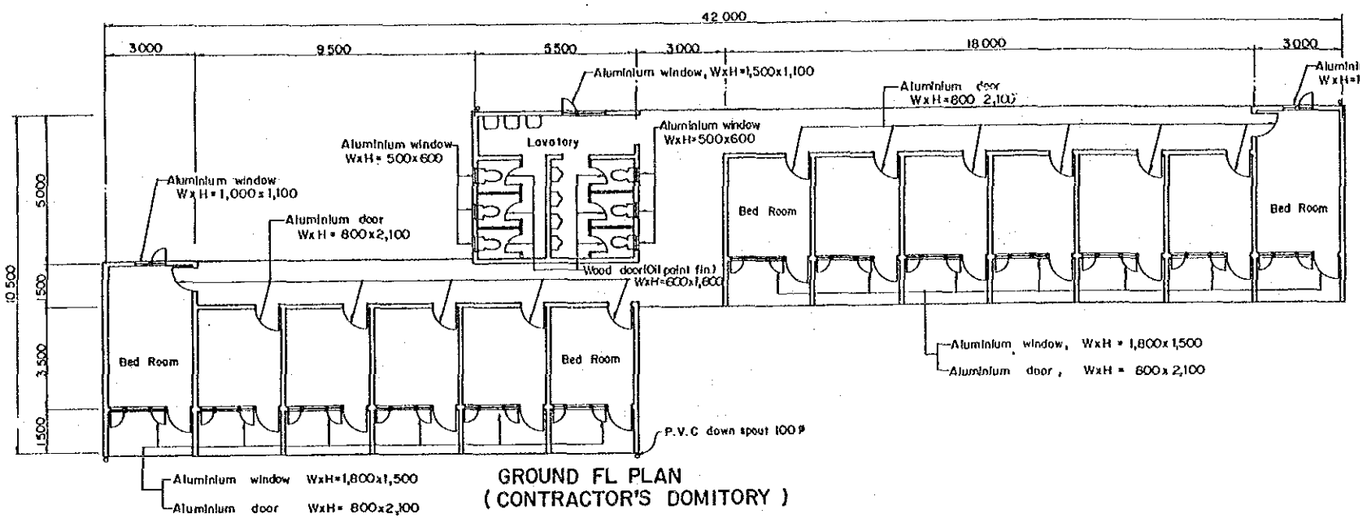
SCALE : A 0 5 10m

SCALE : B 0 5m

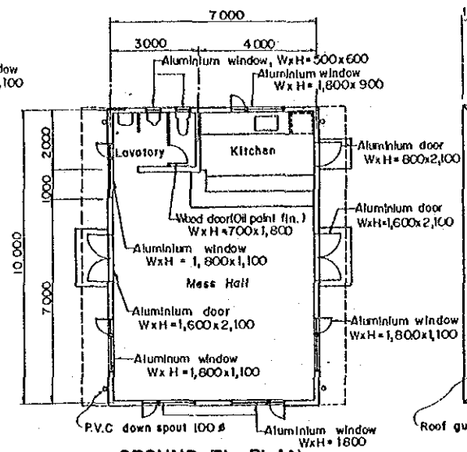
PREPARATORY WORKS
BUILDING WORKS
ENGINEER'S OFFICE

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

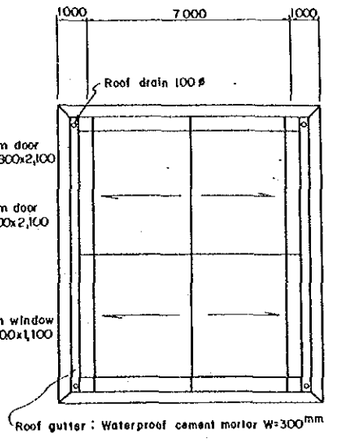
Fig. 3.4.16(2)



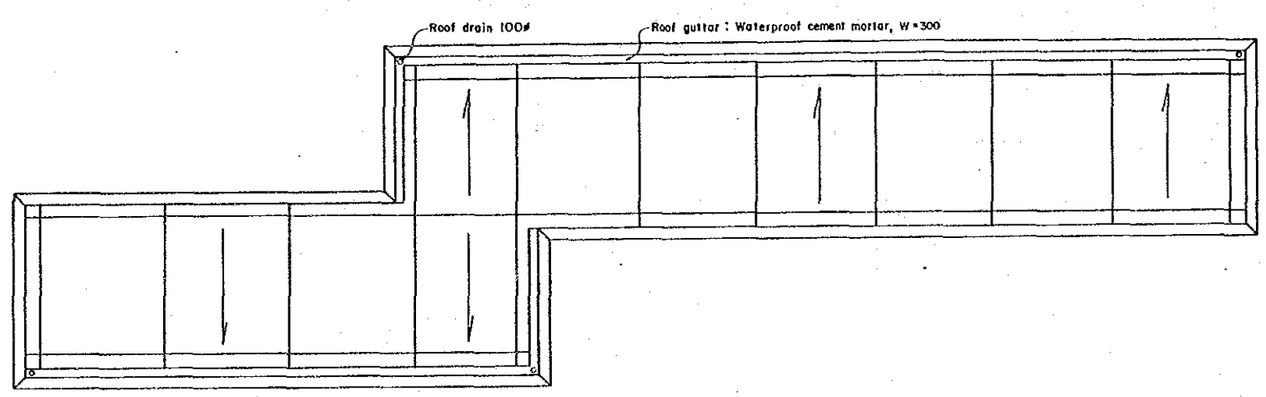
GROUND FL PLAN
(CONTRACTOR'S DOMITORY)



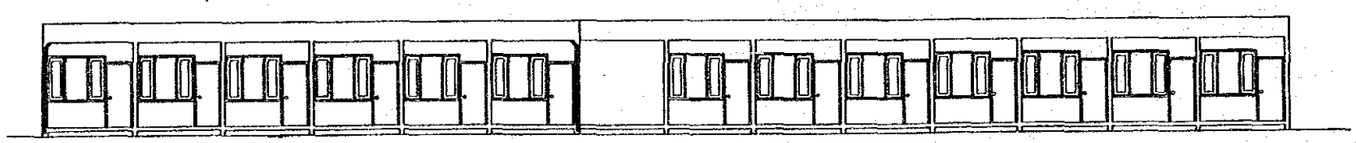
GROUND FL PLAN
(MESS HALL)



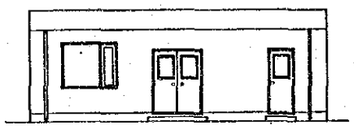
ROOF PLAN



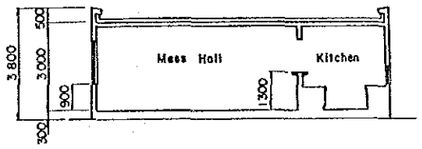
ROOF PLAN



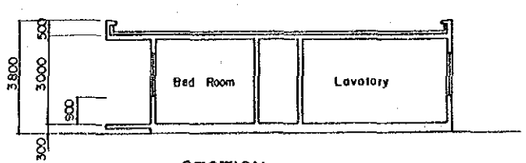
FRONT ELEVATION



FRONT ELEVATION



SECTION



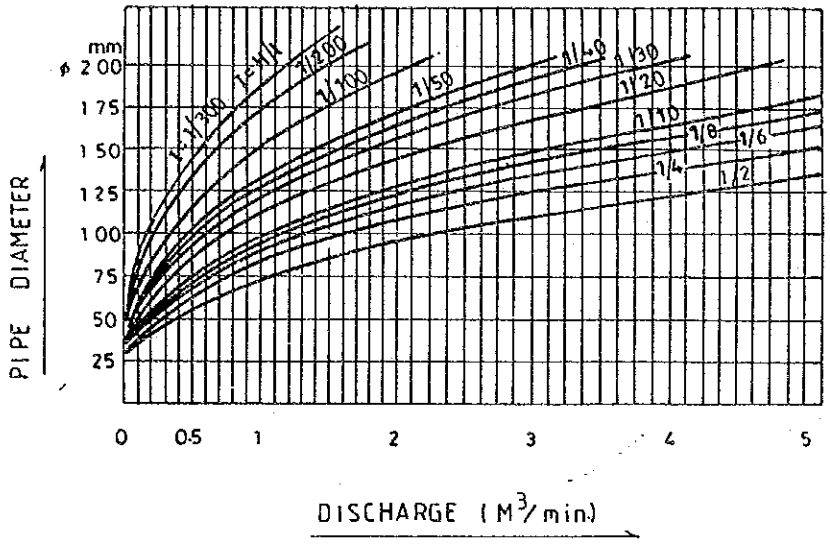
SECTION

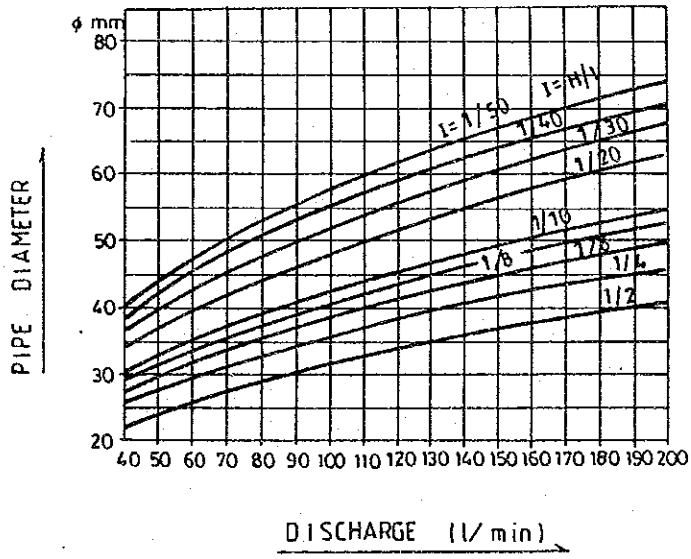
EXTERIOR FINISH SCHEDULE	
WALL	Vinyl emulsion paint on cement mortar
ROOF	Levelling cement mortar 20mm thk., 3Ply built-up roofining, Concrete 60mm thick,
SKIRTING	Cement mortar H = 300
INTERIOR FINSH SCHEDULE	
FLOOR	Terrazzo. (Lavatory ; Mosaic tile)
SKIRTING	Terrazzo. H = 100
WALL	Vinyl emulsion paint on cement mortar
CEILING	Vinyl emulsion paint on exposed concrete

SCALE 0 100mm

PREPARATORY WORKS
BUILDING WORKS
CONTRACTOR'S DORMITORY AND MESS HALL

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY





RELATIONSHIP AMONG DISCHARGE, GRADIENT AND PIPE DIAMETER

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.18

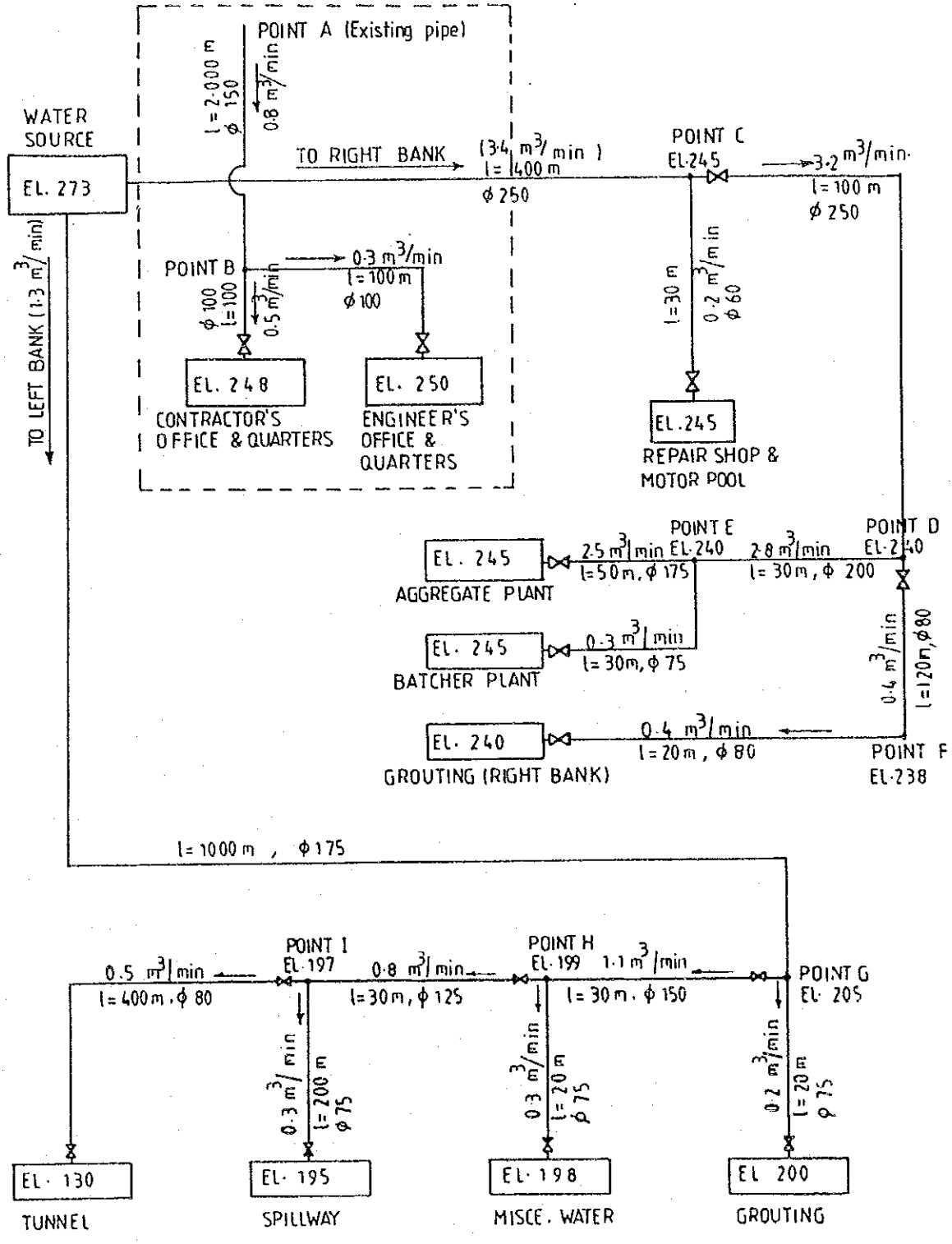


DIAGRAM OF WATER SUPPLY SYSTEM

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.19

N

MOKA RIVER

Existing CWA Pipeline

Point A

TRUNK ROAD

Riviere Profonde

Existing Drain Ditch

D150 DIP

Intake Water Pit

Point B

D250 DIP

X = 997,500

X = 997,300

X = 997,000

X = 996,800

X = 995,600

X = 995,400

Trees and Shadow

D100 DIP

D75 SP

Point C

Point D

D75 SP

D75 SP

The Governor's Residence

REMARKS:
DIP : Ductile Iron Pipe
SP : Steel Pipe
--- : Treated Water
---- : Without Treated Water

Ground surface

min 1000

600

TYPICAL SECTION (1)

Drain ditch Road

600

TYPICAL SECTION (2)

SCALE

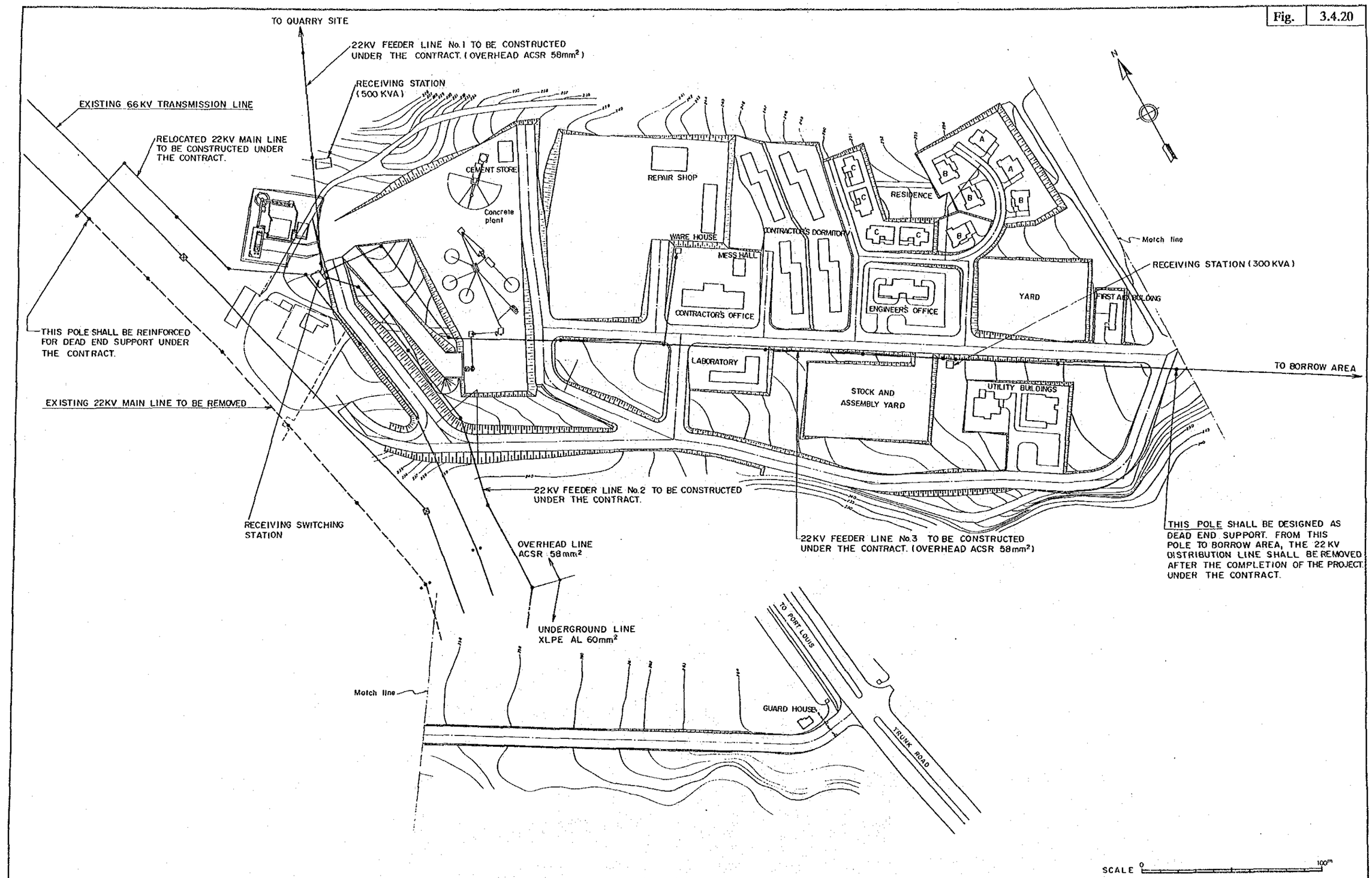
0 200m

PREPARATORY WORKS
WATER SUPPLY SYSTEM
PLAN AND TYPICAL SECTION

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.20

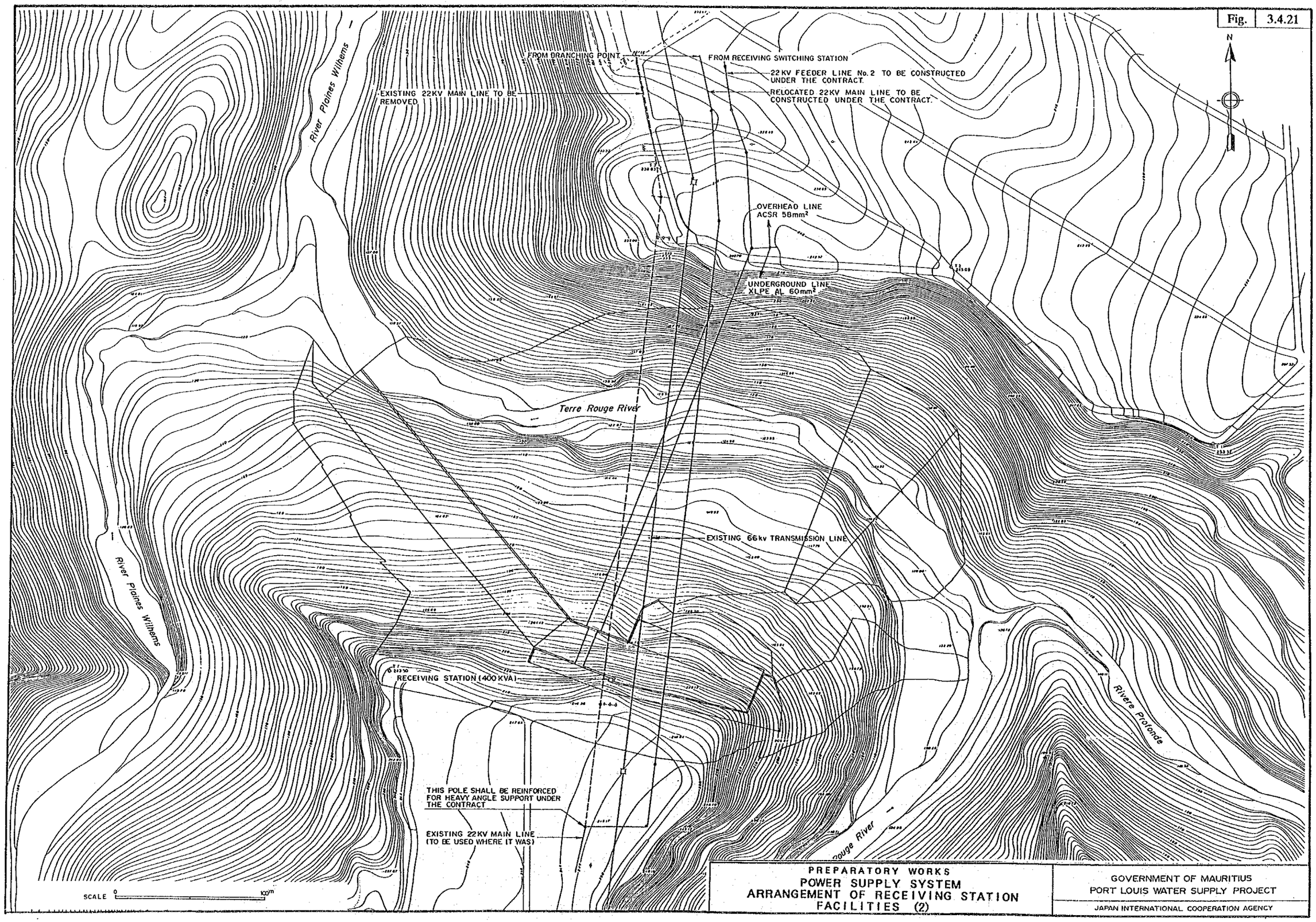


PREPARATORY WORKS
POWER SUPPLY SYSTEM
ARRANGEMENT OF RECEIVING STATION FACILITIES (1)

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT

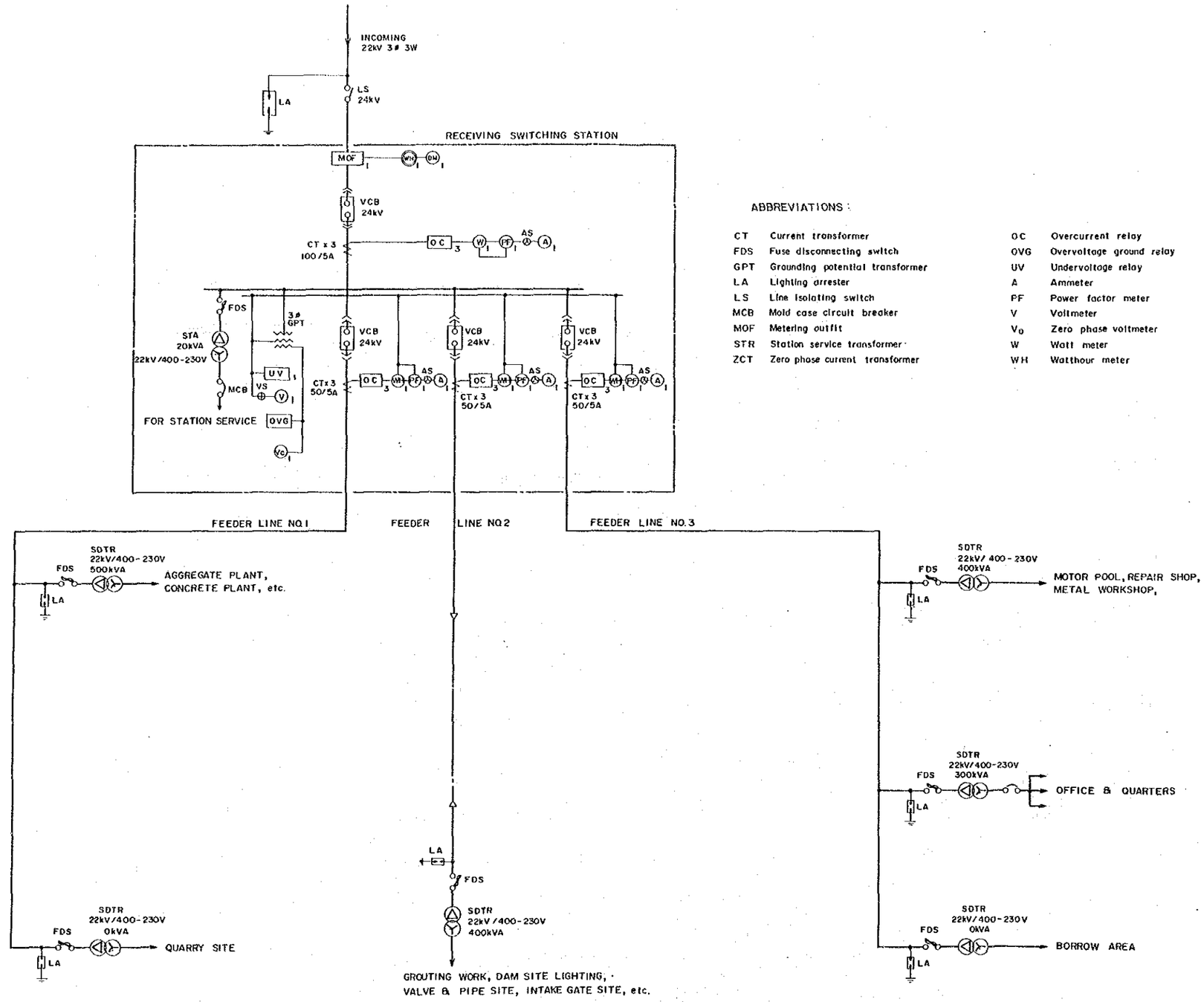
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.21



PREPARATORY WORKS
POWER SUPPLY SYSTEM
ARRANGEMENT OF RECEIVING STATION FACILITIES (2)

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY



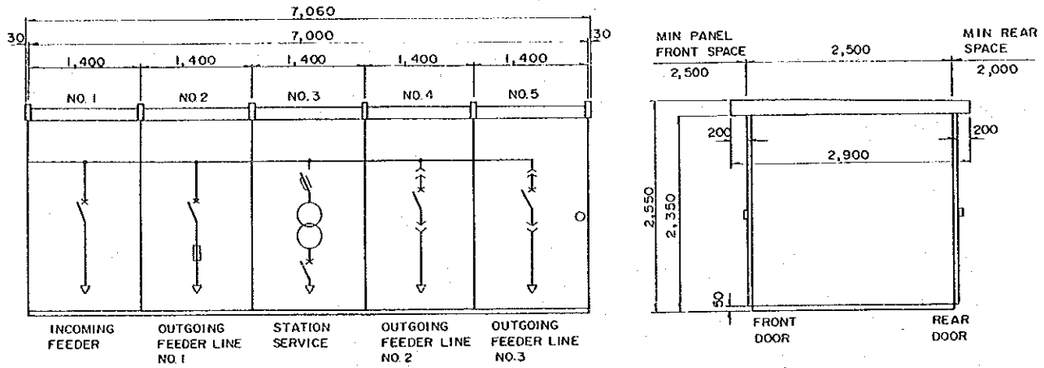
ABBREVIATIONS :

CT	Current transformer	OC	Overcurrent relay
FDS	Fuse disconnecting switch	OVG	Overvoltage ground relay
GPT	Grounding potential transformer	UV	Undervoltage relay
LA	Lighting arrester	A	Ammeter
LS	Line isolating switch	PF	Power factor meter
MCB	Mold case circuit breaker	V	Voltmeter
MOF	Metering outfit	V_0	Zero phase voltmeter
STR	Station service transformer	W	Watt meter
ZCT	Zero phase current transformer	WH	Watthour meter

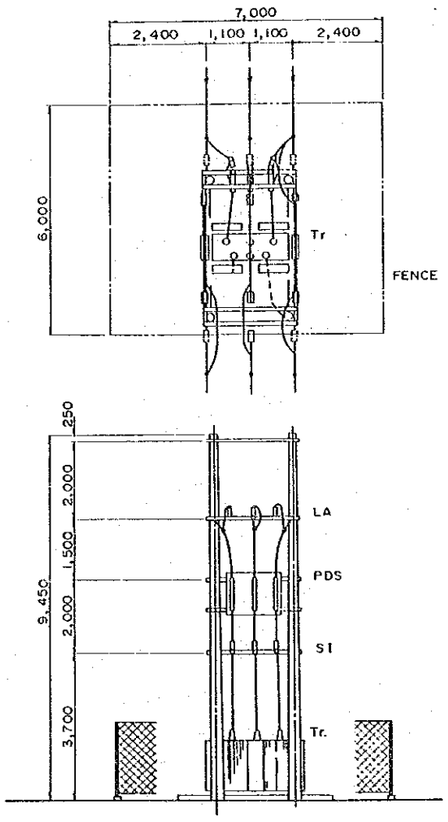
PREPARATORY WORKS
POWER SUPPLY SYSTEM
CONNECTION DIAGRAM OF POWER SYSTEM (1)

GOVERNMENT OF MAURITIUS
PORT LOUIS WATER SUPPLY PROJECT
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 3.4.23



22KV OUTDOOR SWITCHGEAR AT RECEIVING SWITCHING STATION



TYPICAL RECEIVING STATION ARRANGEMENT

PREPARATORY WORKS POWER SUPPLY SYSTEM CONNECTION DIAGRAM OF POWER SYSTEM (2)	GOVERNMENT OF MAURITIUS PORT LOUIS WATER SUPPLY PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY

CHAPTER IV. CONSTRUCTION SCHEDULE

4.1 Pre-construction Program

The pre-construction activities for Lot I Works comprise detailed design, preparation of tender documents, financial arrangement including implementation program, prequalification of contractor, tendering, evaluation and award of the contract. The pre-construction program is essential to determine the time of commencement for the construction works.

The detailed design covers the preparation of design drawings, general and technical specifications and tender documents on the basis of accurate surveys, foundation borings and necessary tests to be conducted in the detailed survey. The detailed design and preparation of tender documents for Lot I Works were completed by the middle of February, 1991 in a draft form and finalized by the end of March 1991.

The financial arrangement of foreign loan is expected to be completed by the end of October 1991, before starting the tendering of Lot I Works and the selection of the consultant for construction supervision.

The financial arrangement of national budget is also expected by the end of November 1991, before starting the tendering of Lot I Works as well as compensation of the land acquisition.

The both financial arrangements shall be made by the Government of Mauritius.

The selection of the consultant for the construction supervision will also be made before starting the Lot I international tendering.

The tendering time which comprises of advertisement of tender and prequalification, tender evaluation and negotiation and contract awarding are expected as shown in Fig. 4.1, Implementation Schedule for the Port Louis Water Supply Project.

The following target dates of the major works are required to ensure the good sequence of the Lot I and Lot II construction works.

4.2 Construction Period and Target Date of the Project

The construction period required for implementation of the Lot I and Lot II Works is planned to be 47 months. As for the overall construction works of the international competitive tendering, each construction period including the mobilization is planned to be as follows:

Lot I : 15 months, December 1992 - February 1994
Lot II : 34 months, January 1994 - October 1996
Lot III : 26 months from September 1994

Lot I: Construction Facilities and Diversion Tunnel

a.	Award of contract	:	November 30, 1992
b.	Completion of temporary buildings	:	November 30, 1993
c.	Completion of permanent buildings	:	July 31, 1993
d.	Completion of aggregate and concrete batcher plant	:	September 30, 1993
e.	Completion of water supply system	:	August 31, 1993
f.	Completion of electric power supply system	:	April 30, 1993
g.	Haul road from quarry site	:	November 30, 1993
h.	Access road around damsite	:	November 30, 1993
i.	Access road to intake	:	November 30, 1993
j.	Inspection road along water transmission pipeline	:	February 28, 1994
k.	Tunnel excavation in diversion tunnel	:	September 15, 1993
l.	Concrete lining in diversion tunnel	:	December 15, 1993
m.	Completion date of Lot I Works	:	February 28, 1994

Lot II: Dam and Relevant Facilities

a.	Award of contract	:	January 1, 1994
b.	River diversion, started	:	March 1, 1994
c.	Cofferdam, completed	:	June 30, 1994
d.	Main dam excavation, completed	:	September 30, 1994
e.	Diversion tunnel closure, started	:	June 1, 1996
f.	Main dam, completed	:	May 31, 1996
g.	River outlet work, completed	:	October 31, 1996
h.	Completion date of Lot II Works	:	October 31, 1996