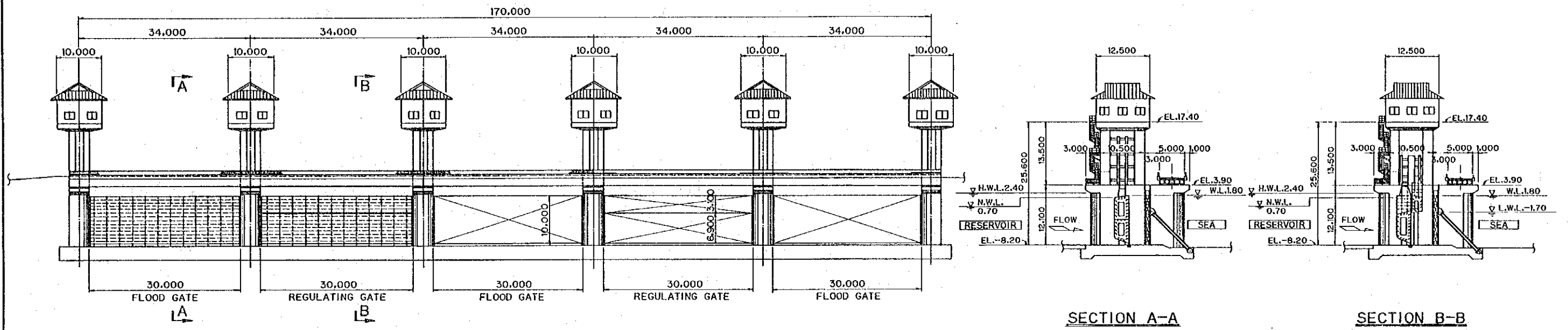


NOTE 1
MATERIAL FOR STAIRCASE IS TO BE GALVANIZED STEEL.

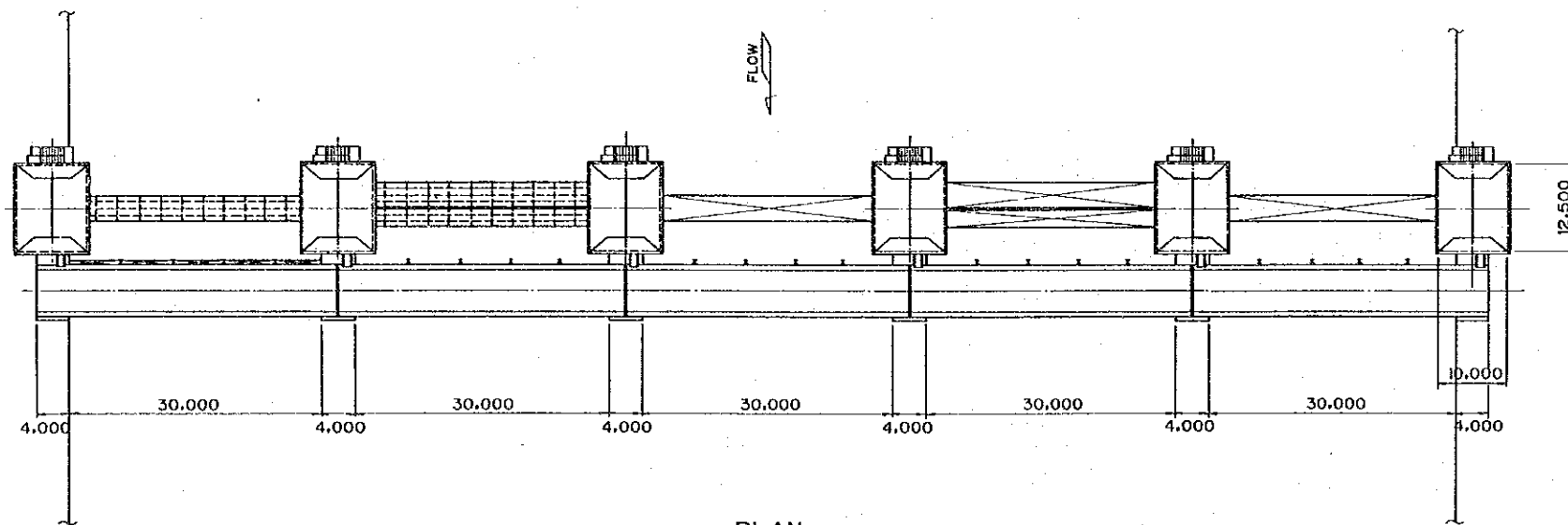
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM	
HOIST HOUSE (5/5)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1058	



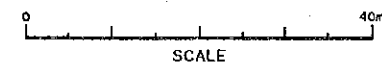
ELEVATION
(VIEW FROM DOWNSTREAM)

SECTION A-A
(FLOOD GATE)

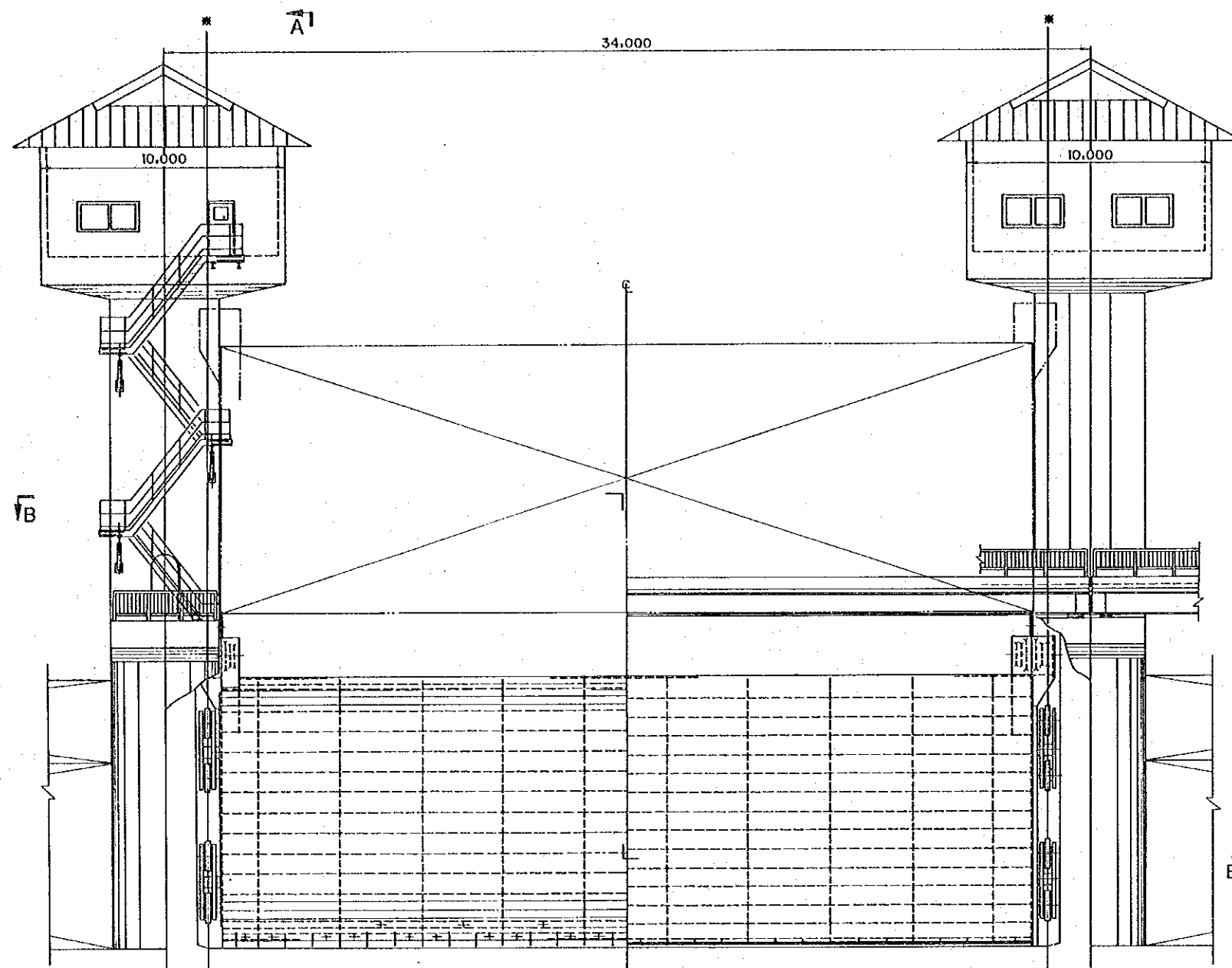
SECTION B-B
(REGULATING GATE)



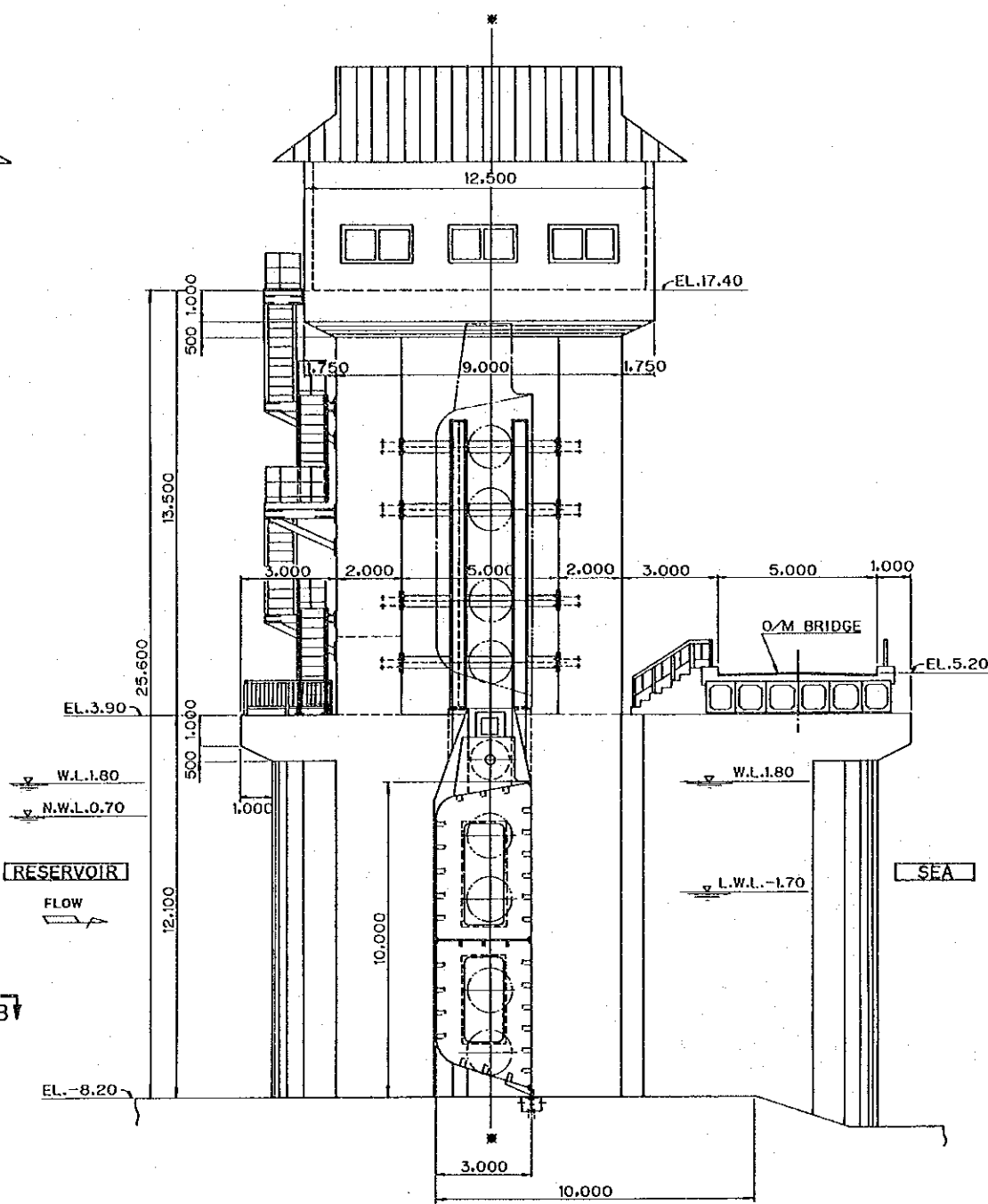
PLAN



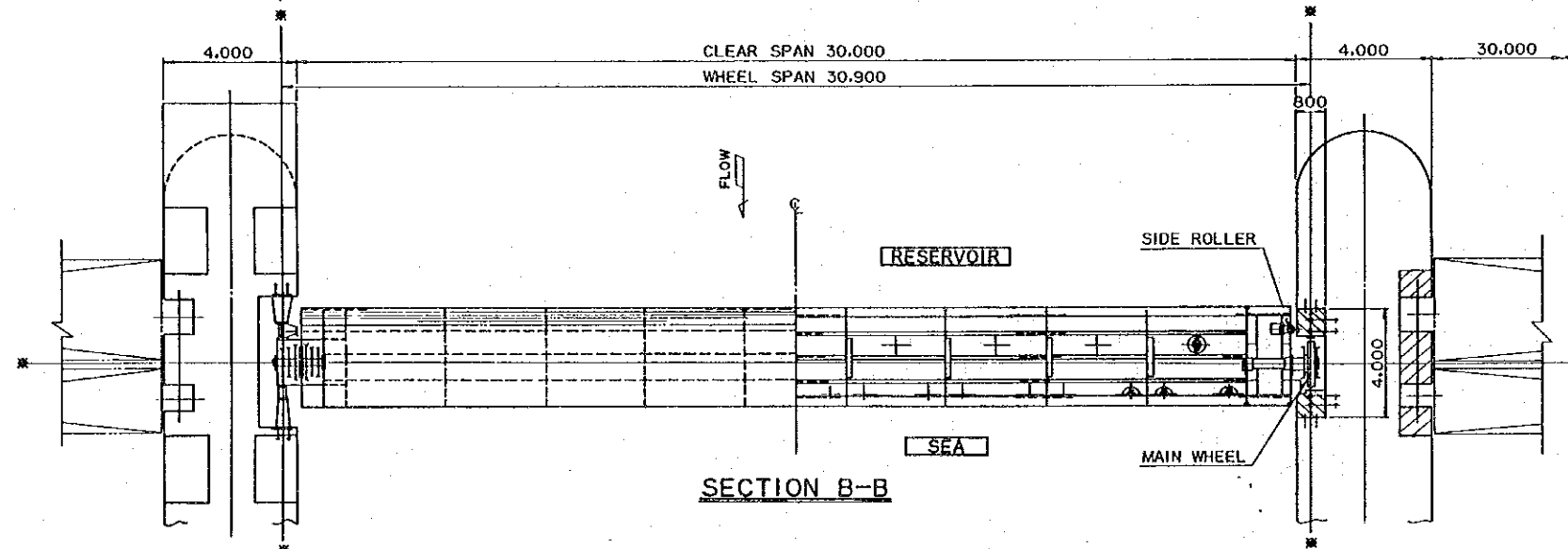
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM TIDE PROTECTION GATES ELEVATION AND SECTIONS	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1059	



VIEW FROM UPSTREAM ELEVATION VIEW FROM DOWNSTREAM



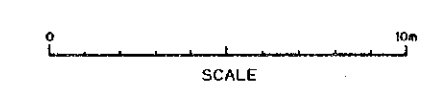
SECTION A-A



SECTION B-B

GATE DESIGN CONDITION

FLOOD GATE	
TYPE	SHELL TYPE FIXED WHEEL GATE
QUANTITY	3
CLEAR SPAN	30.000
GATE HEIGHT	10.000
WATER LEVEL UP STREAM	W.L.1.80
DOWN STREAM	L.L.W.L.-1.70
ELEVATION OPERATING FLOOR	EL.17.40
SILL	EL.-8.20
HOIST	WIRE ROPE WINCH
OPERATING SPEED	0.3M/Min



THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

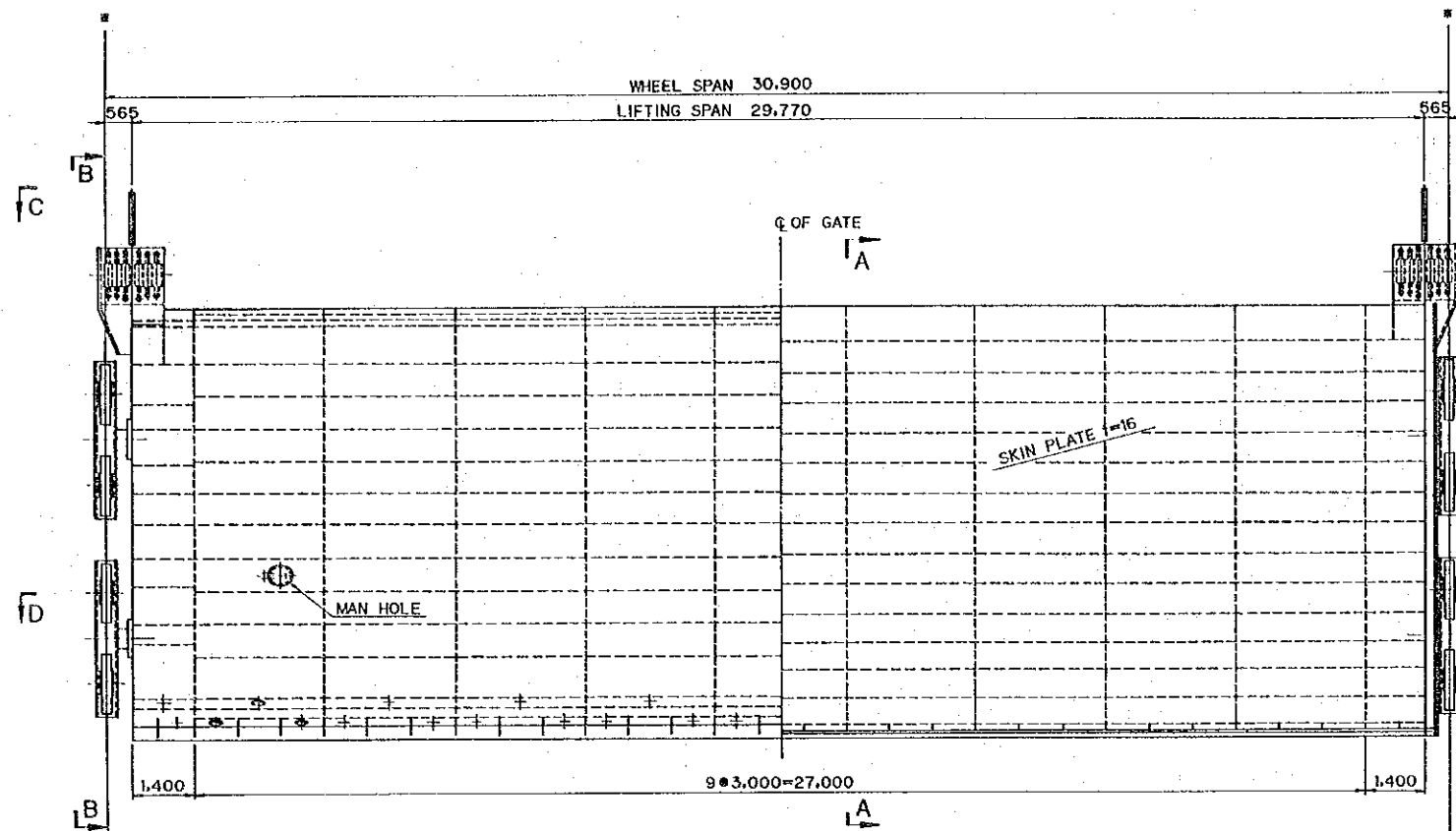
THE BANG PAKONG DIVERSION DAM PROJECT

BANG PAKONG DIVERSION DAM
GATE LEAF OF FLOOD GATE

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED _____
TRACED _____
CHECKED _____
APPROVED _____

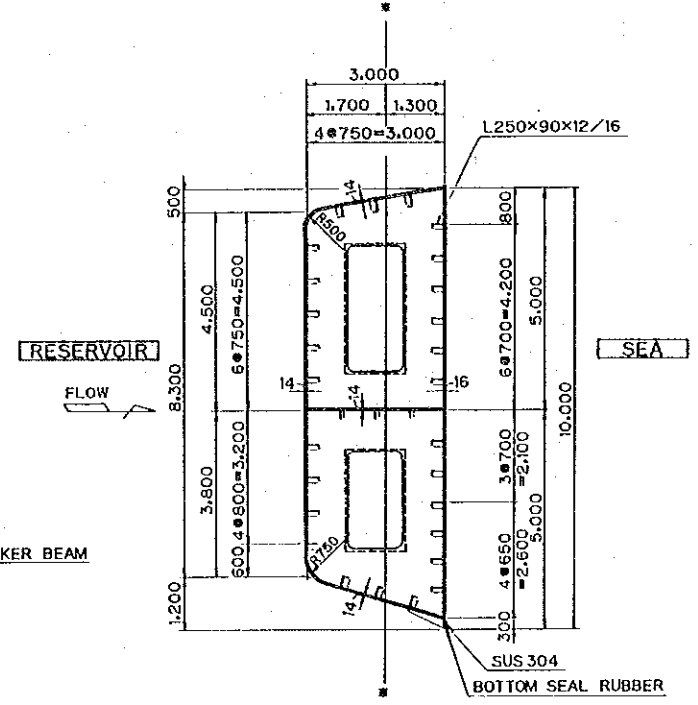
DRAWING NO. DDM - 1060



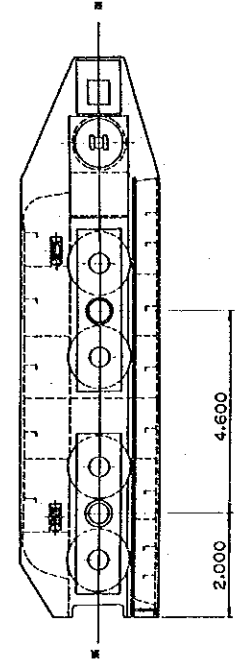
VIEW FROM UPSTREAM

ELEVATION

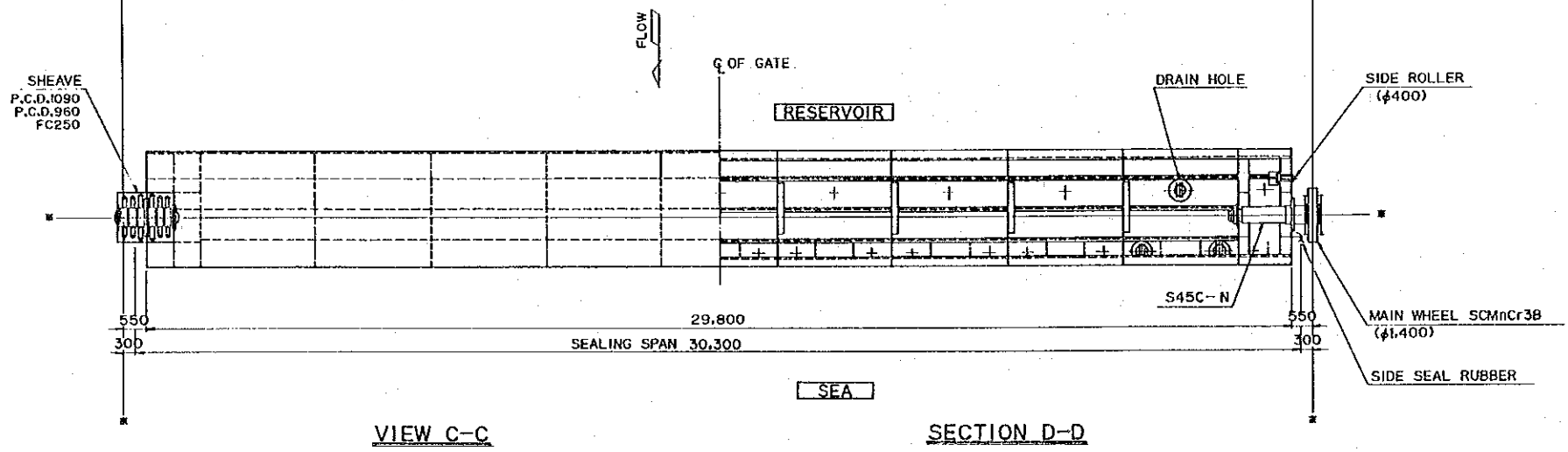
VIEW FROM DOWNSTREAM



SECTION A-A



VIEW B-B

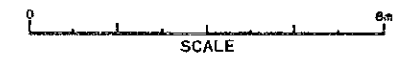


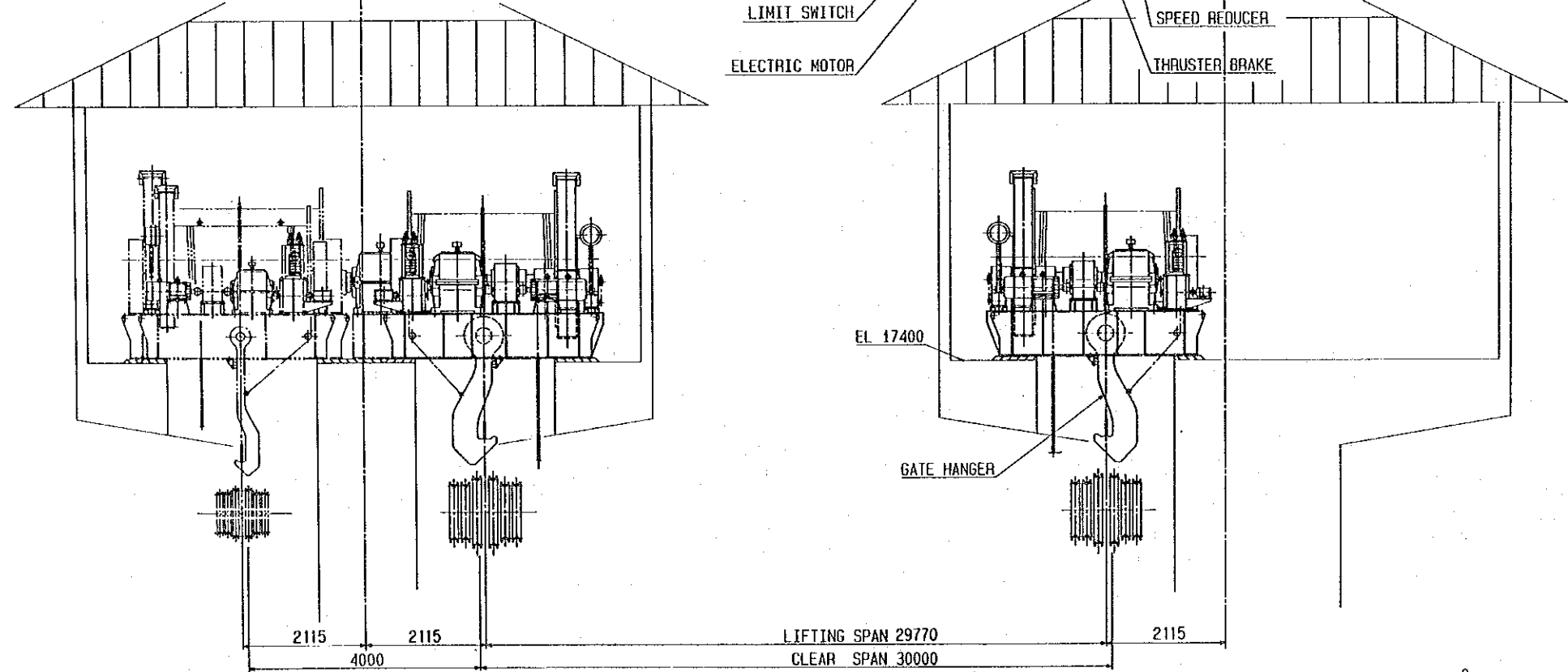
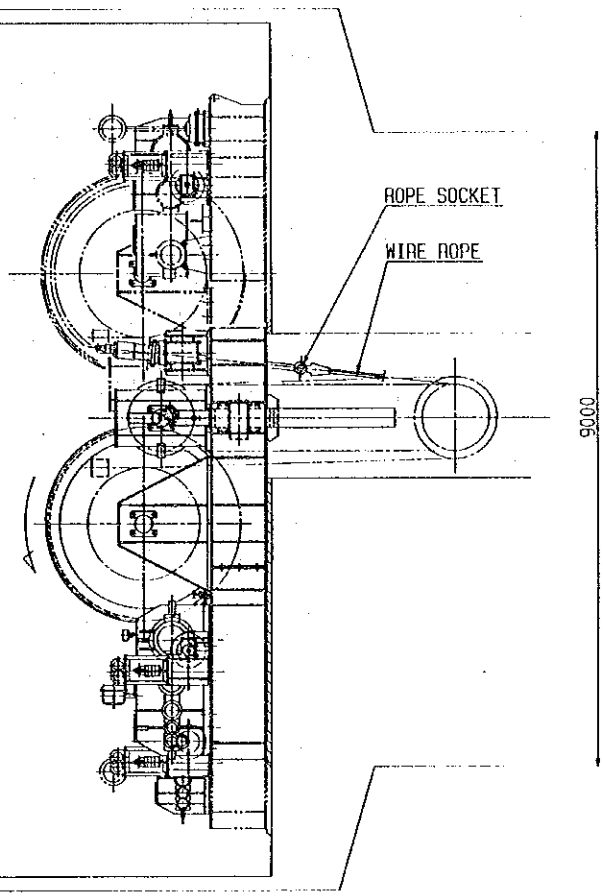
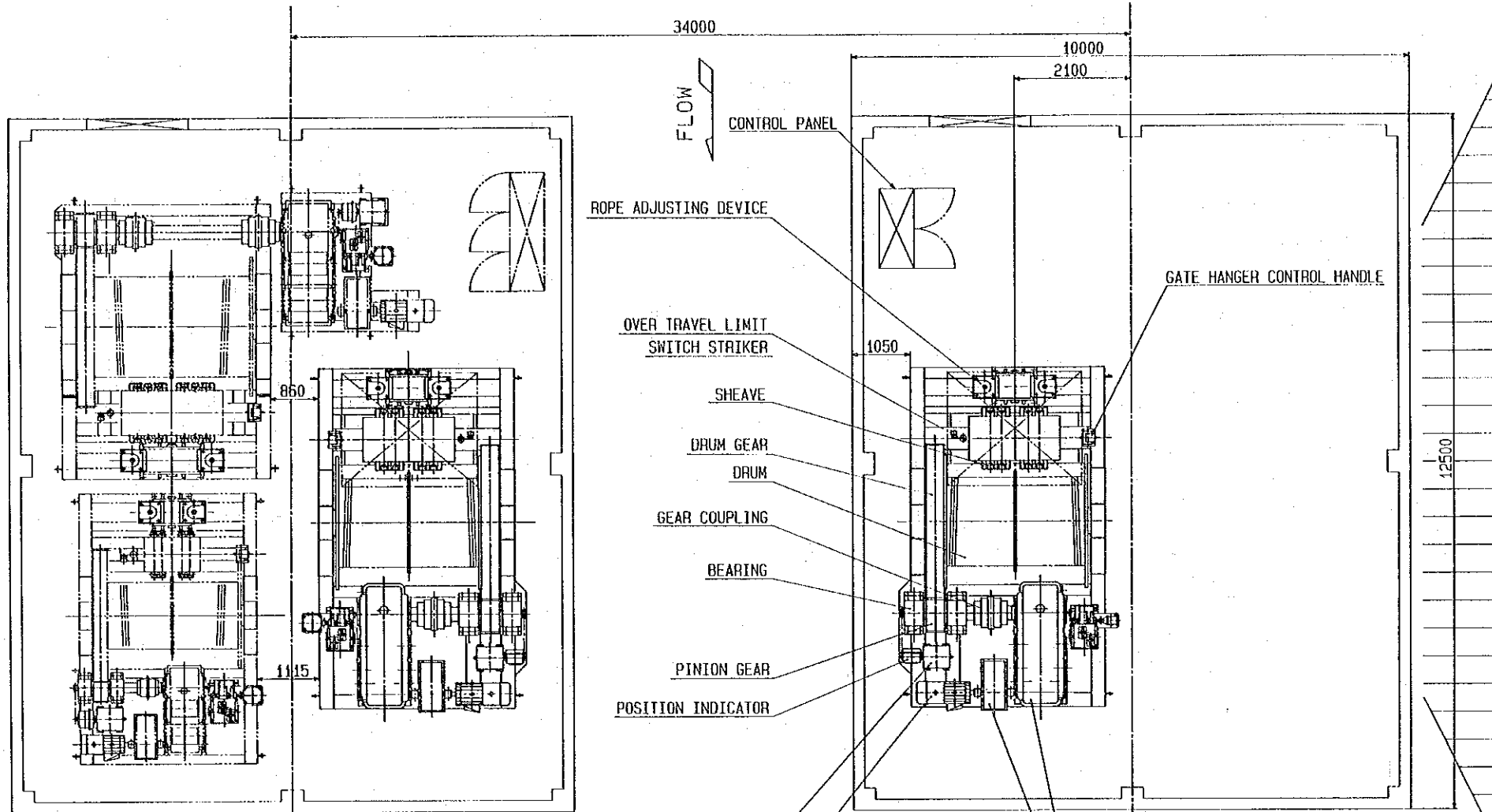
VIEW C-C

SECTION D-D

- NOTES:
1. THE MATERIALS TO BE USED SHALL BE OF JIS SS400 EXCEPT OTHERWISE SHOWN.
 2. LEGEND: — REFERENCE LINE.

THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM DETAILED GATE LEAF OF FLOOD GATE	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1051	





DESIGN DATA OF HOIST

FLOOD GATE	
TYPE OF HOIST	WIRE ROPE WINCH (2-MOTOR, 2-DRUM TYPE)
GATE LIFT	H = 12.1m
GATE SPEED	0.3 m/min
HOISTING LOAD	400 tonf
LEVEL OF HOIST DECK	EL+ 17400
QUANTITY OF HOIST	3

THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

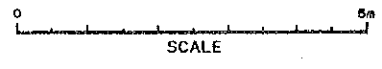
THE BANG PAKONG DIVERSION DAM PROJECT

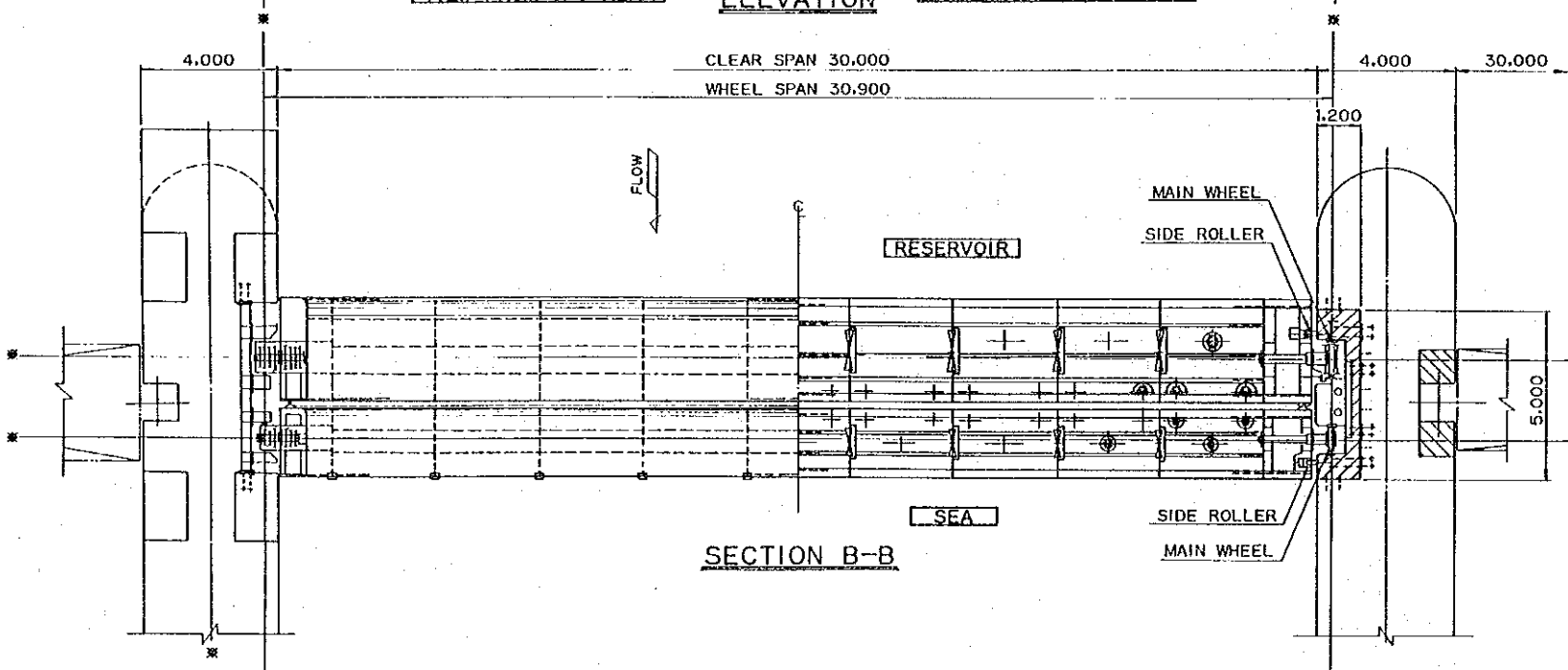
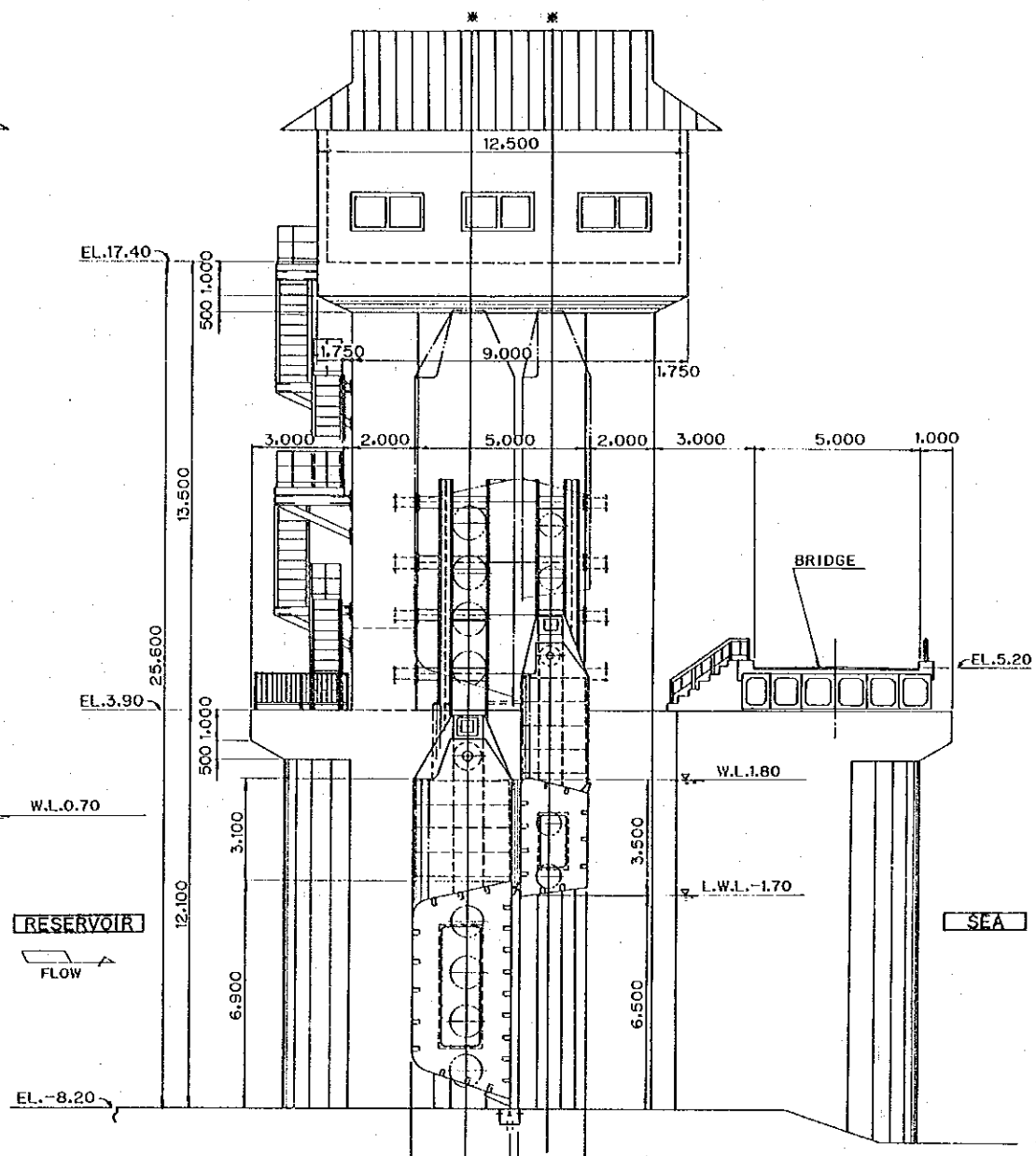
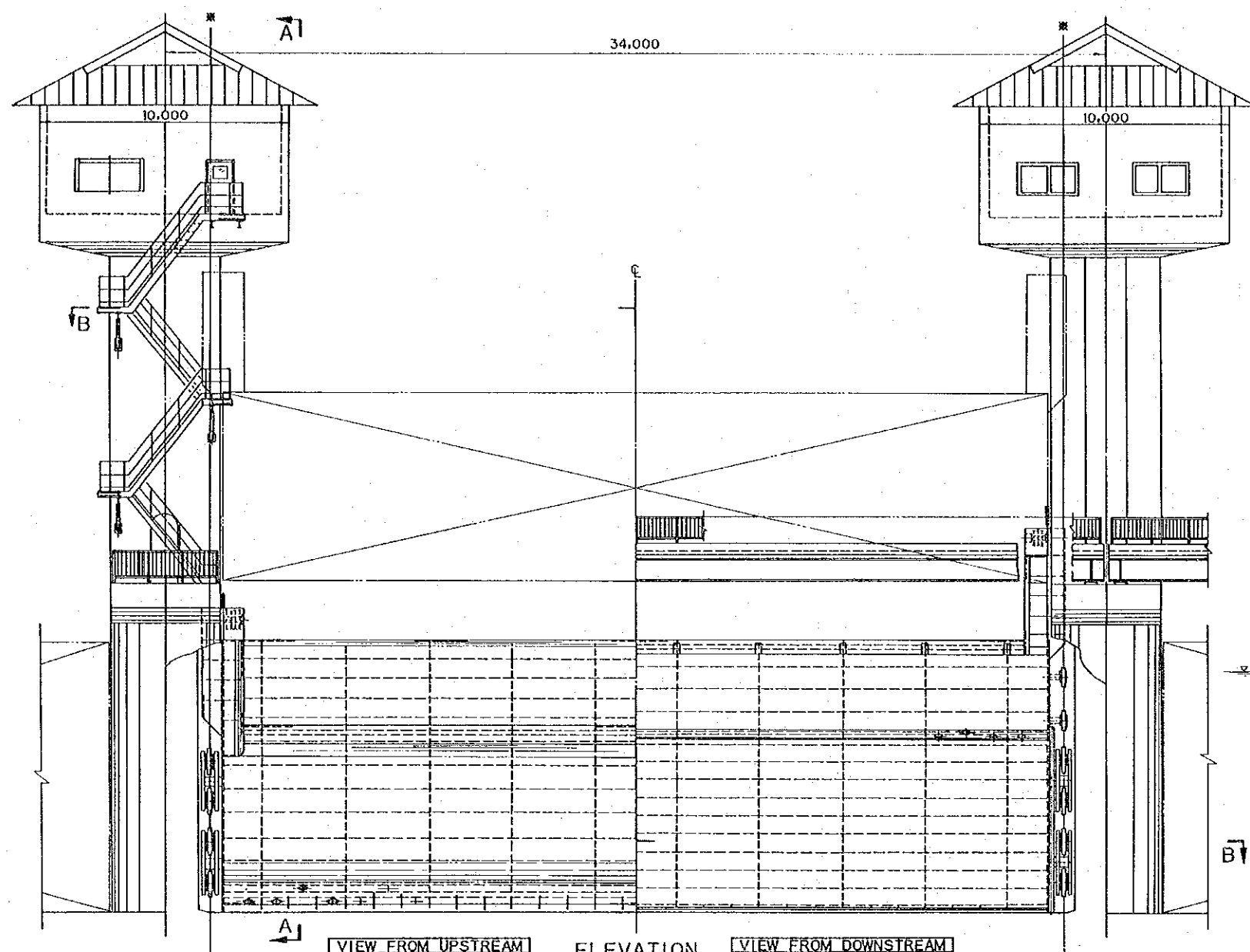
BANG PAKONG DIVERSION DAM
HOIST OF FLOOD GATE

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

DRAWING NO. DDM - 1062

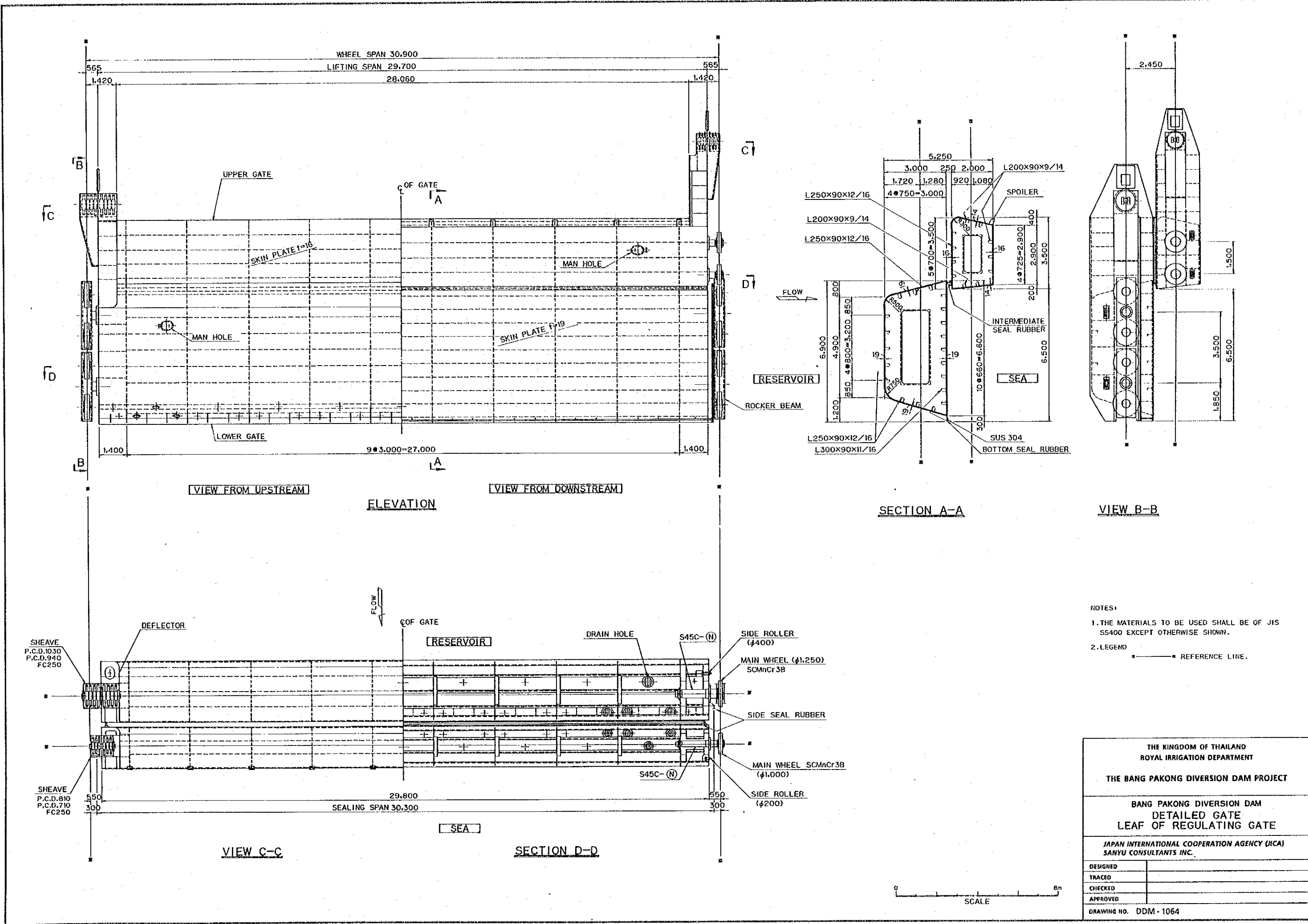




GATE DESIGN CONDITION

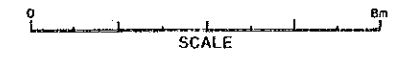
TYPE	FLOOD GATE
QUANTITY	2
CLEAR SPAN	30.000
GATE HEIGHT	10.000
WATER LEVEL	
UP STREAM	W.L.1.80
DOWN STREAM	L.L.W.L.-1.70
ELEVATION	
OPERATING FLOOR	EL.3.90
SILL	EL.-8.20
HOIST	WIRE ROPE WINCH
OPERATING SPEED	0.3M/Min

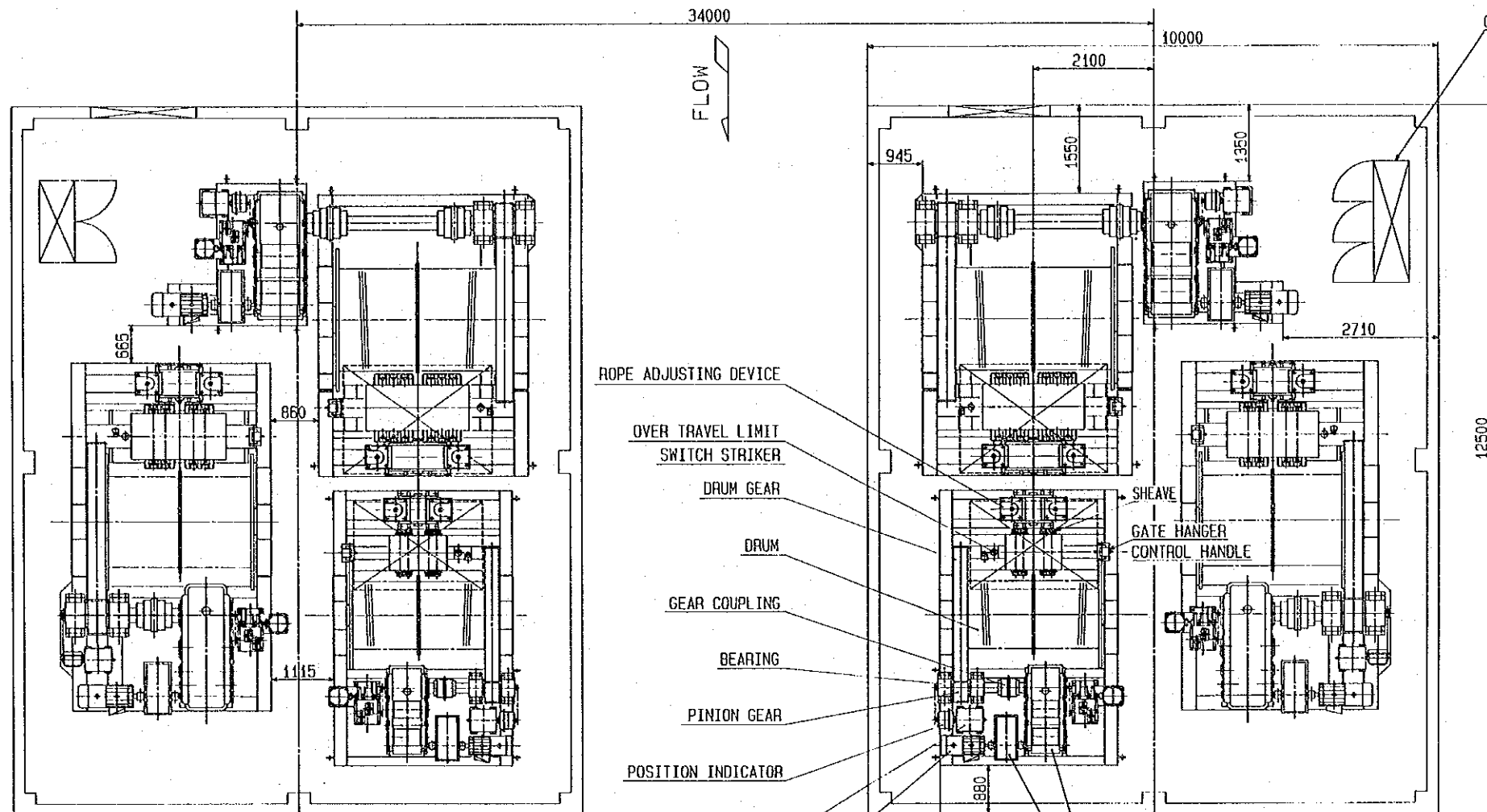
THE KINGDOM OF THAILAND
 ROYAL IRRIGATION DEPARTMENT
 THE BANG PAKONG DIVERSION DAM PROJECT
 BANG PAKONG DIVERSION DAM
 GATE LEAF OF REGULATING GATE
 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 SANYU CONSULTANTS INC.
 DESIGNED
 TRACED
 CHECKED
 APPROVED
 DRAWING NO. DDM-1063



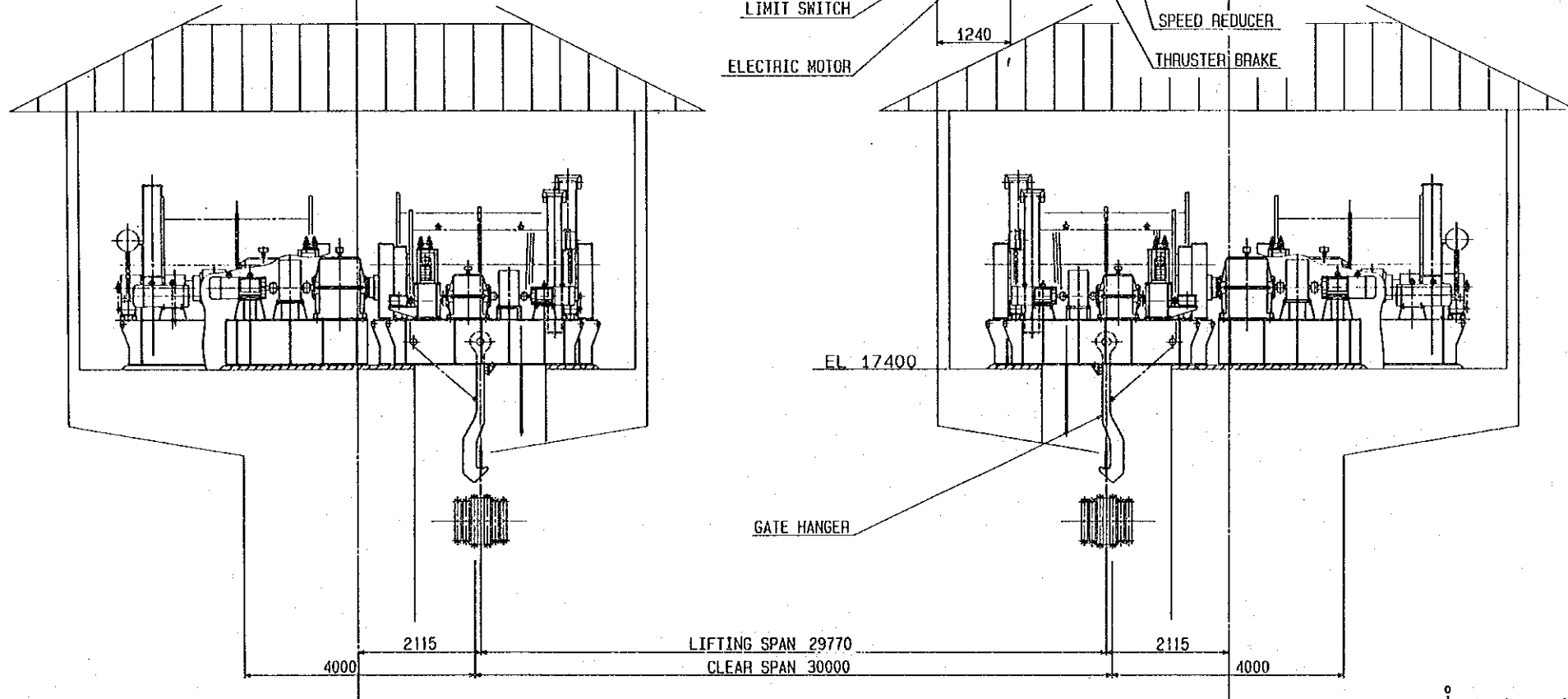
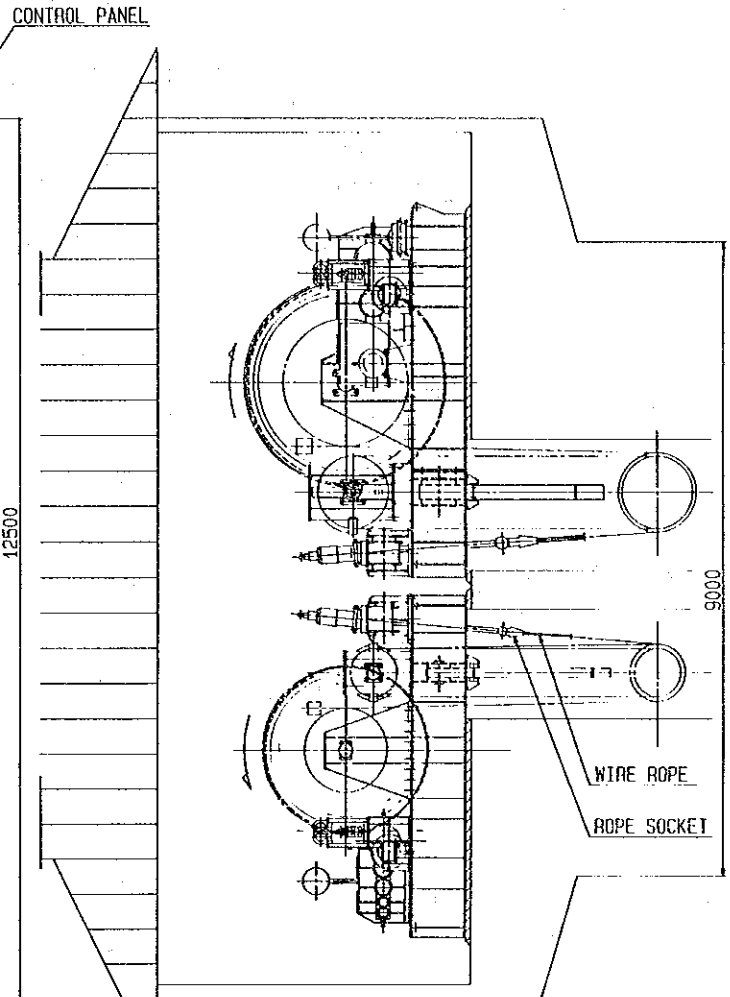
- NOTES:
1. THE MATERIALS TO BE USED SHALL BE OF JIS S5400 EXCEPT OTHERWISE SHOWN.
 2. LEGEND: — REFERENCE LINE.

THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM DETAILED GATE LEAF OF REGULATING GATE	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1064	





- ROPE ADJUSTING DEVICE
- OVER TRAVEL LIMIT SWITCH STRIKER
- DRUM GEAR
- DRUM
- GEAR COUPLING
- BEARING
- PINION GEAR
- POSITION INDICATOR
- LIMIT SWITCH
- ELECTRIC MOTOR
- SHEAVE
- GATE HANGER CONTROL HANDLE
- SPEED REDUCER
- THRUSTER BRAKE



DESIGN DATA OF HOIST

	UPPER REGULATING GATE	LOWER REGULATING GATE
TYPE OF HOIST	WIRE ROPE WINCH (2-MOTOR, 2-DRUM TYPE)	WIRE ROPE WINCH (2-MOTOR, 2-DRUM TYPE)
GATE LIFT	H = 12.1m	H = 12.1m
GATE SPEED	0.3 m/min	0.3 m/min
HOISTING LOAD	230 tonf	450 tonf
LEVEL OF HOIST DECK	EL+ 17400	EL+ 17400
QUANTITY OF HOIST	2	2

THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

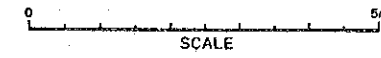
THE BANG PAKONG DIVERSION DAM PROJECT

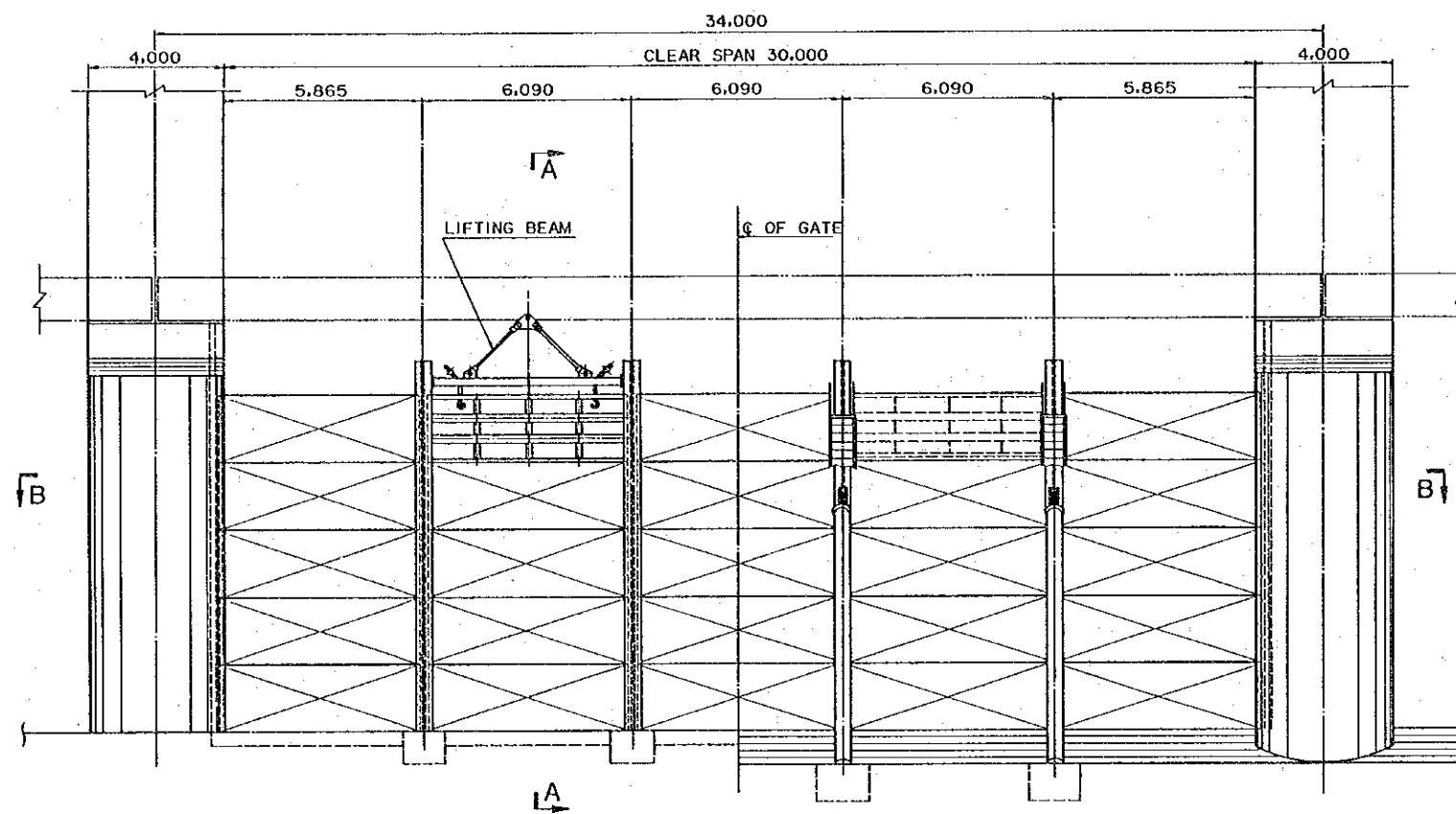
BANG PAKONG DIVERSION DAM
HOIST OF REGULATING GATE

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

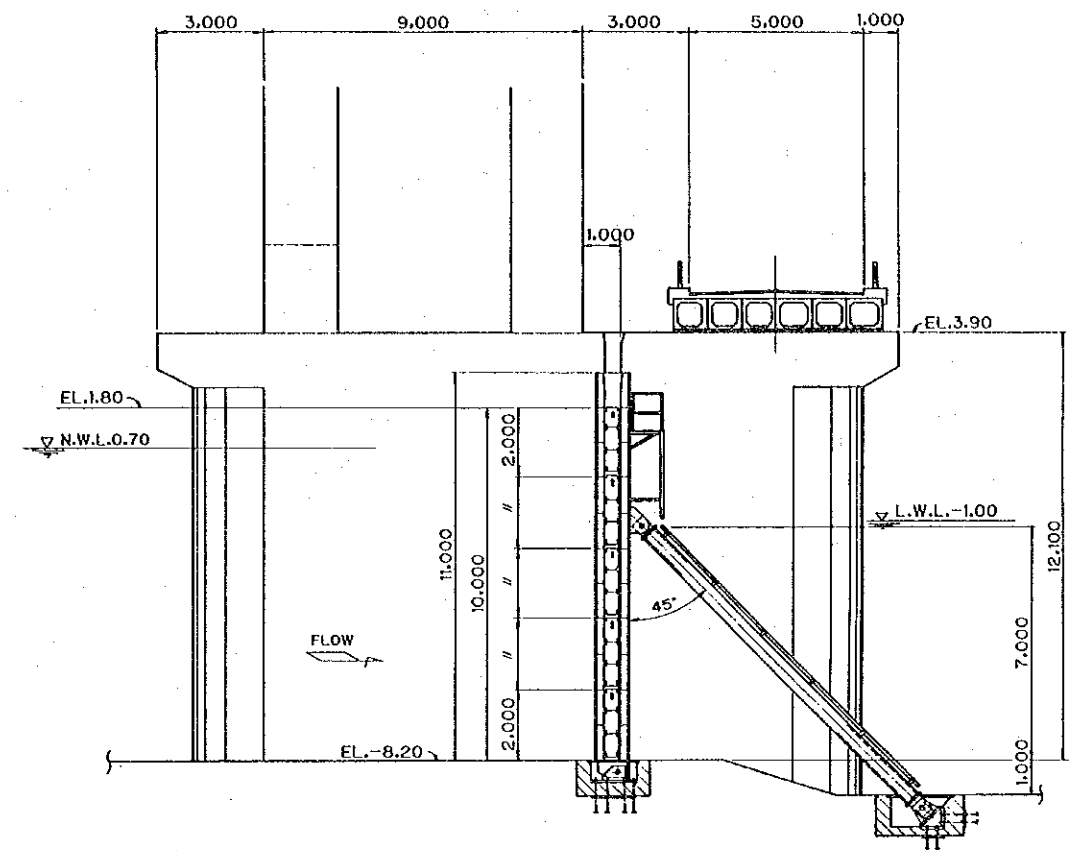
DESIGNED	
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APPROVED	

DRAWING NO. DDM - 1065

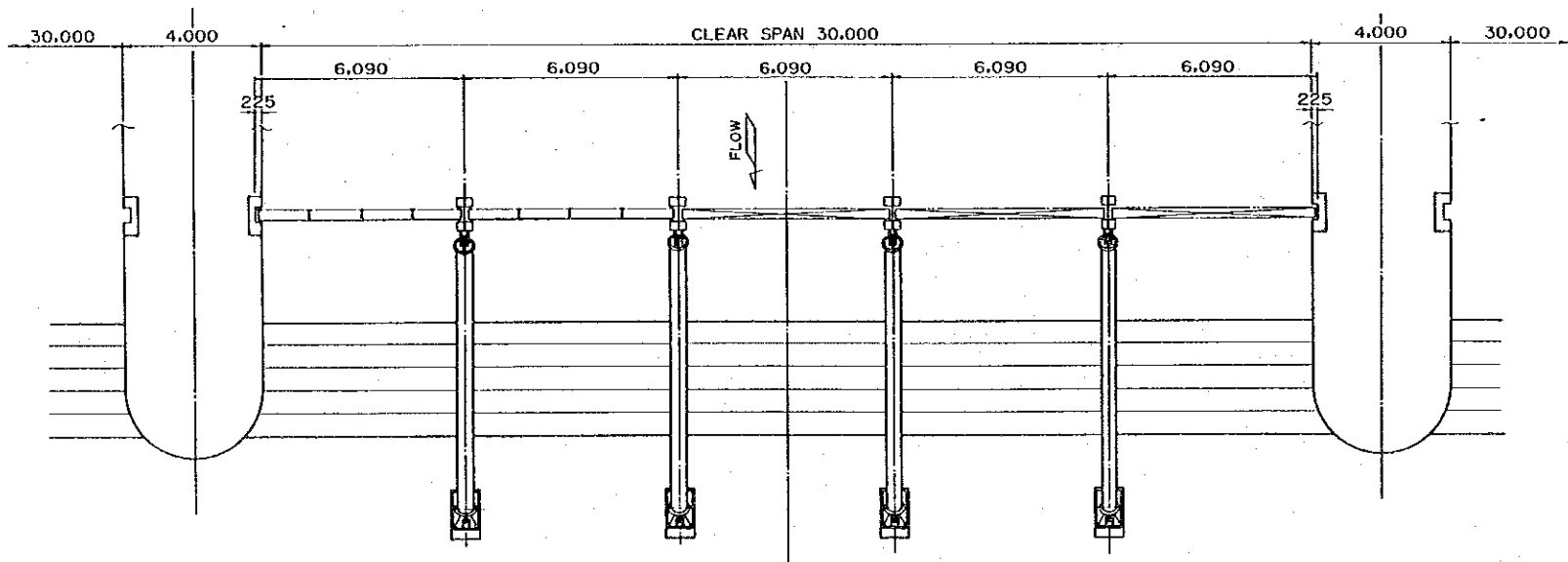




ELEVATION



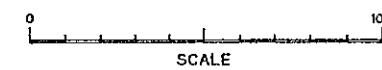
SECTION A-A



SECTION B-B

GATE DESIGN CONDITION

GATE DESIGN CONDITION	
TYPE	STOP LOG GIRDER TYPE SLUICE GATE
QUANTITY	25
CLEAR SPAN	30.000
GATE HEIGHT	10.000(2.000x5)
WATER LEVEL	
UP STREAM	N.W.L. 0.70
DOWN STREAM	L.W.L. -1.00
SILL ELEVATION	EL.-8.20



THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

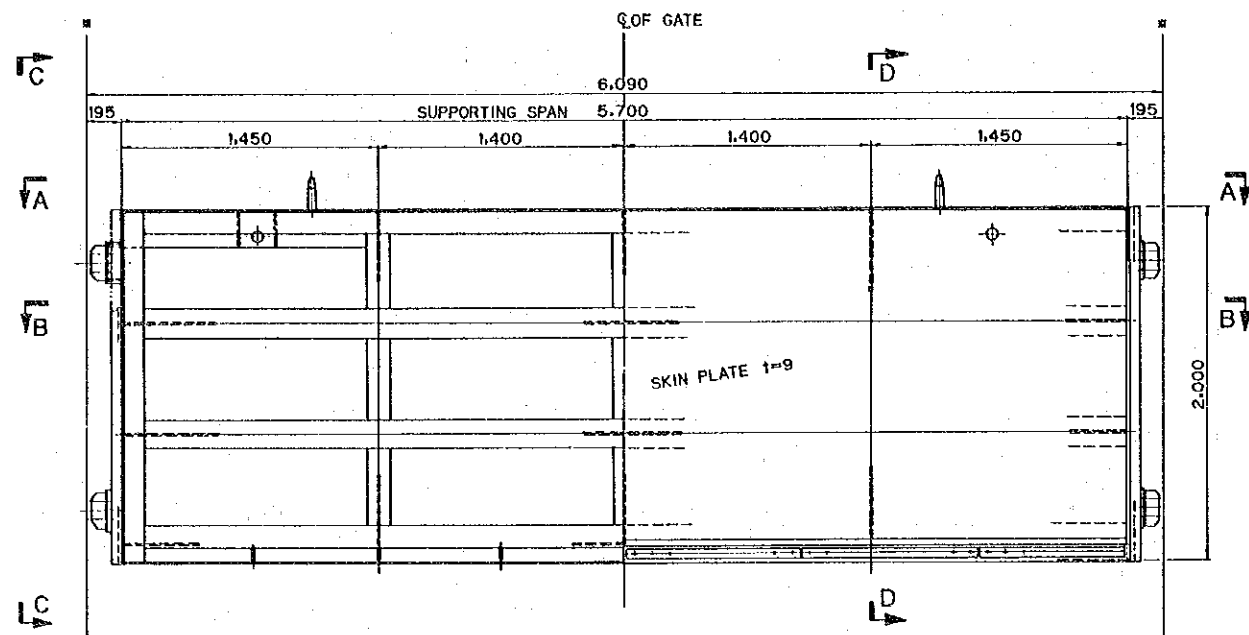
THE BANG PAKONG DIVERSION DAM PROJECT

BANG PAKONG DIVERSION DAM
STOP LOG ELEVATION AND SECTIONS

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

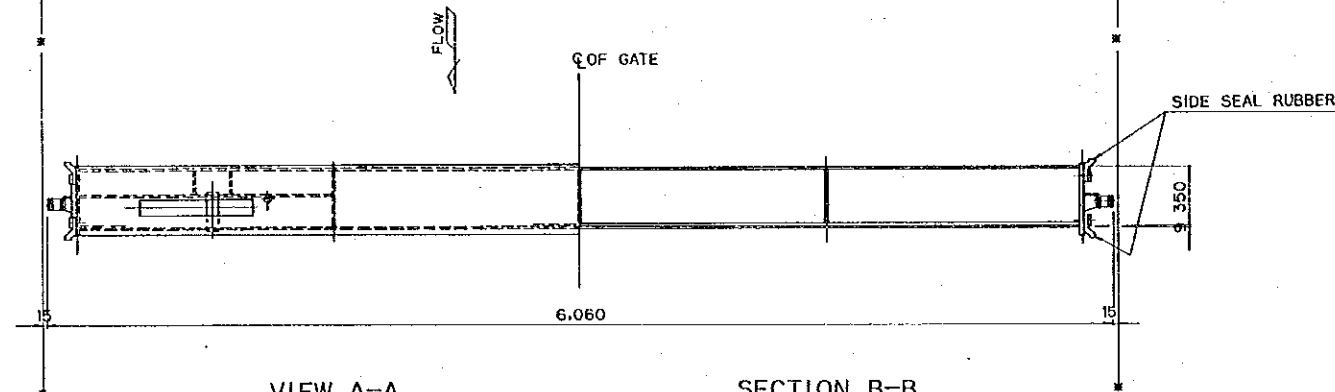
DRAWING NO. DDM - 1066



VIEW FROM UPSTREAM

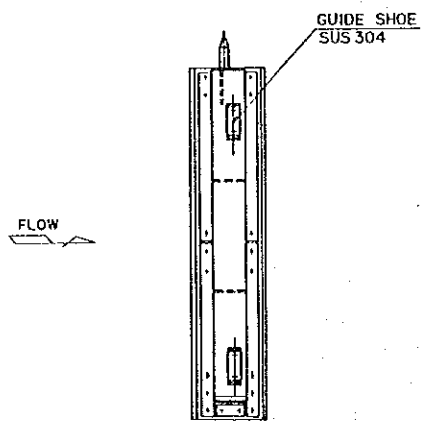
VIEW FROM DOWNSTREAM

ELEVATION
SCALE 'B'

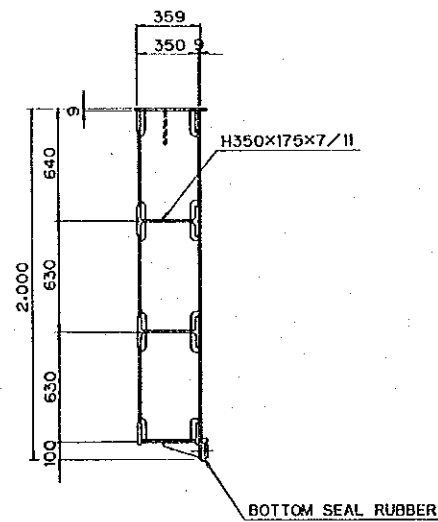


VIEW A-A
SCALE 'B'

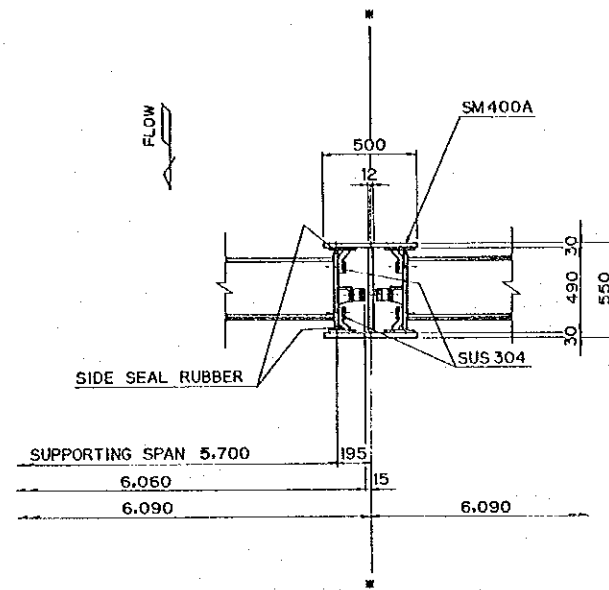
SECTION B-B
SCALE 'B'



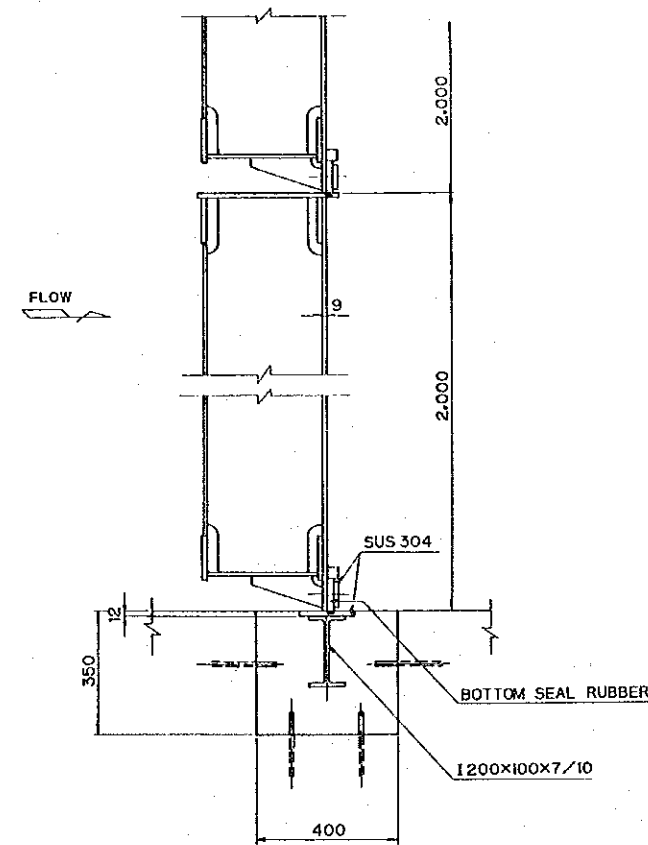
VIEW C-C
SCALE 'B'



SECTION D-D
SCALE 'B'

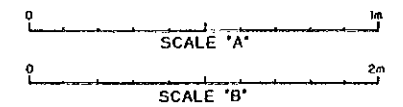


DETAIL OF SIDE SEAL
SCALE 'B'



DETAIL OF BOTTOM SEAL
SCALE 'A'

- NOTES:
1. THE MATERIALS TO BE USED SHALL BE OF JIS SS400 EXCEPT OTHERWISE SHOWN.
 2. LEGEND
— REFERENCE LINE.

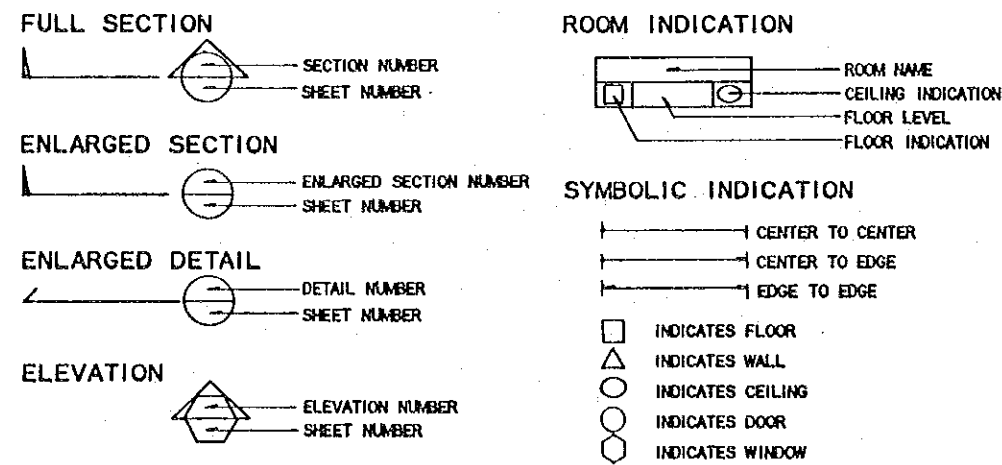


THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM DETAILED STOP LOG	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1067	

SPECIFICATION

SYMBOL	STRUCTURE/Framework	FINISHING	COVERING	MOLDING & SKIRTING	REMARKS
FLOOR WALL CEILING REINFORCED CONCRETE PRECAST CONCRETE POST TENSION 1. LAYER BRICK 2. LAYER BRICK CONCRETE BLOCK WOODEN JOIST WOODEN STUD GALVANIZED METAL STUD GALVANIZED METAL SUSPENSION ALUMINIUM T-BAR WOODEN CEILING JOIST	BRAND TYPE (mm.) SIZE (cm.) SPACING TROWELLED SMOOTH WOOD FLOAT FINE PLASTERING TEXTURED PLASTERING BROOMED FINISH PAVING BLOCK TERRAZZO EXPOSED AGGREGATE CERAMIC TILE MOSAIC TILE TERRA COTTA PYROGRESS ASBESTOS CEMENT SHEET VINYL/PVC TILE MARBLE GRANITE GYPSUM BOARD GYPSUM BOARD W/FLUSH JOINT PARQUET PLYWOOD WOODEN FLOOR ALUMINIUM INSULATION WATERPROOFING BRAND TYPE (cm.) SIZE (mm.) THICKNESS	EMULSION PAINT ENAMEL PAINT EPOXY PAINT TEXTURED PAINT VARNISH POLYURETHANE LIQUID SILICONE WALL PAPER LAMINATED PLASTIC CARPET HARDENER SYNTHETIC GLASS BRAND CODE No.	TEAK WOOD DAENG WOOD HARD WOOD TERRAZZO PVC MARBLE GRANITE CERAMIC TILE VINYL/PVC TILE BRAND TYPE (cm.) SIZE COATING	1) DIMENSION IS SHOWN IN METRIC SYSTEM UNLESS OTHERWISE INDICATED 2) ALL WOODEN STUD & FRAME MUST BE COATED WITH SHELL DRITE (TERMITICIDE)	
2					W/ APPROVED WATERPROOF ADMIXTURE
Δ	4"				
Δ	4"		15	(SUBMIT)	
NOTES: 3" CONC. BLOCK=70X190X390MM. 3/4" SHELL W/TIS, STANDARD		NOTES:	NOTES:	NOTES:	

KEY LEGEND



THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

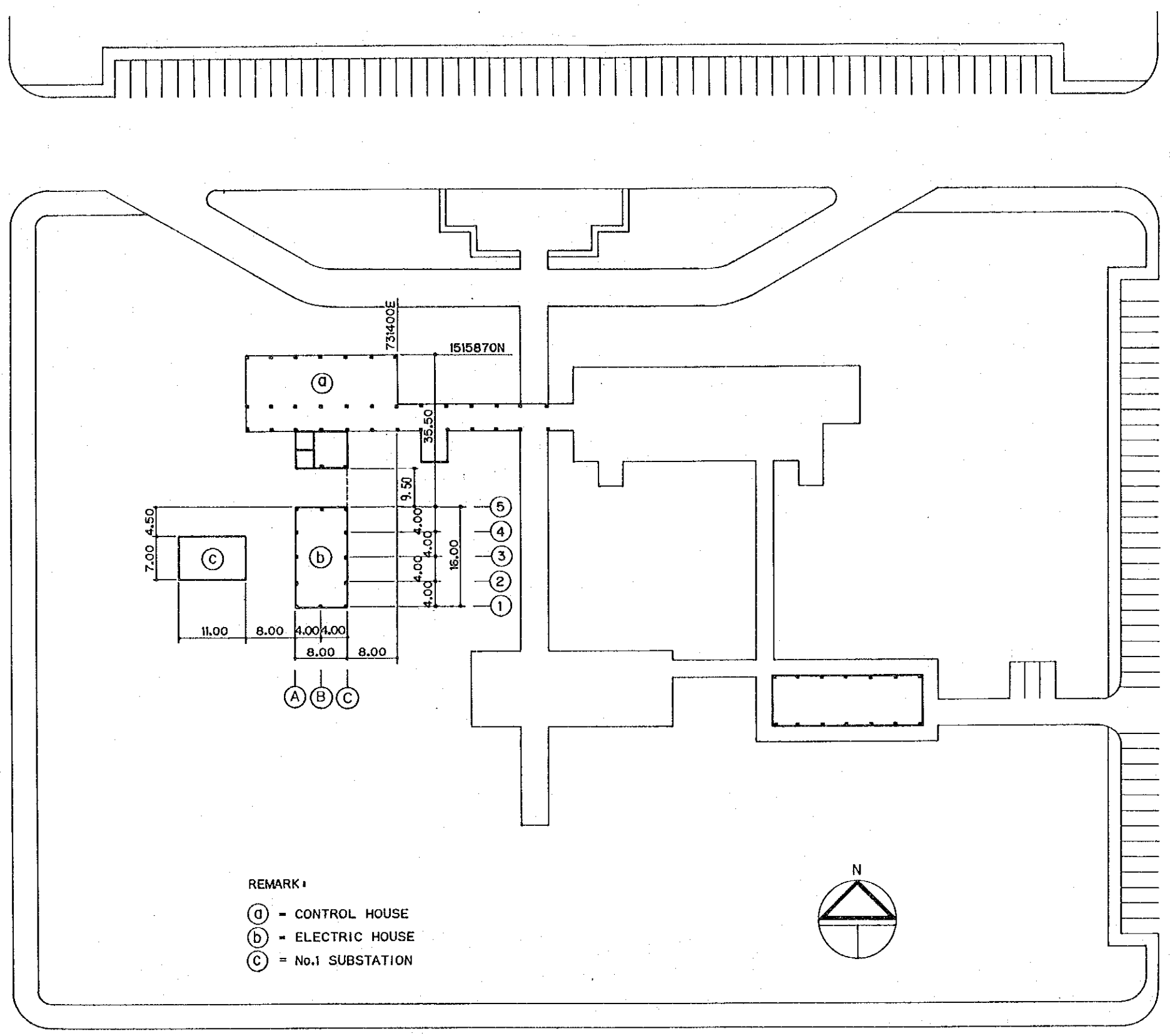
THE BANG PAKONG DIVERSION DAM PROJECT

BANG PAKONG DIVERSION DAM
**ELECTRIC HOUSE AND
No.1 SUBSTATION(1/14)**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

DRAWING NO. DDM-1058



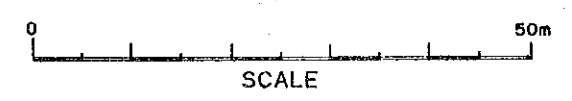
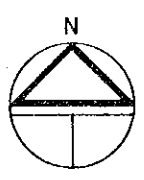
REMARK :

(a) - CONTROL HOUSE

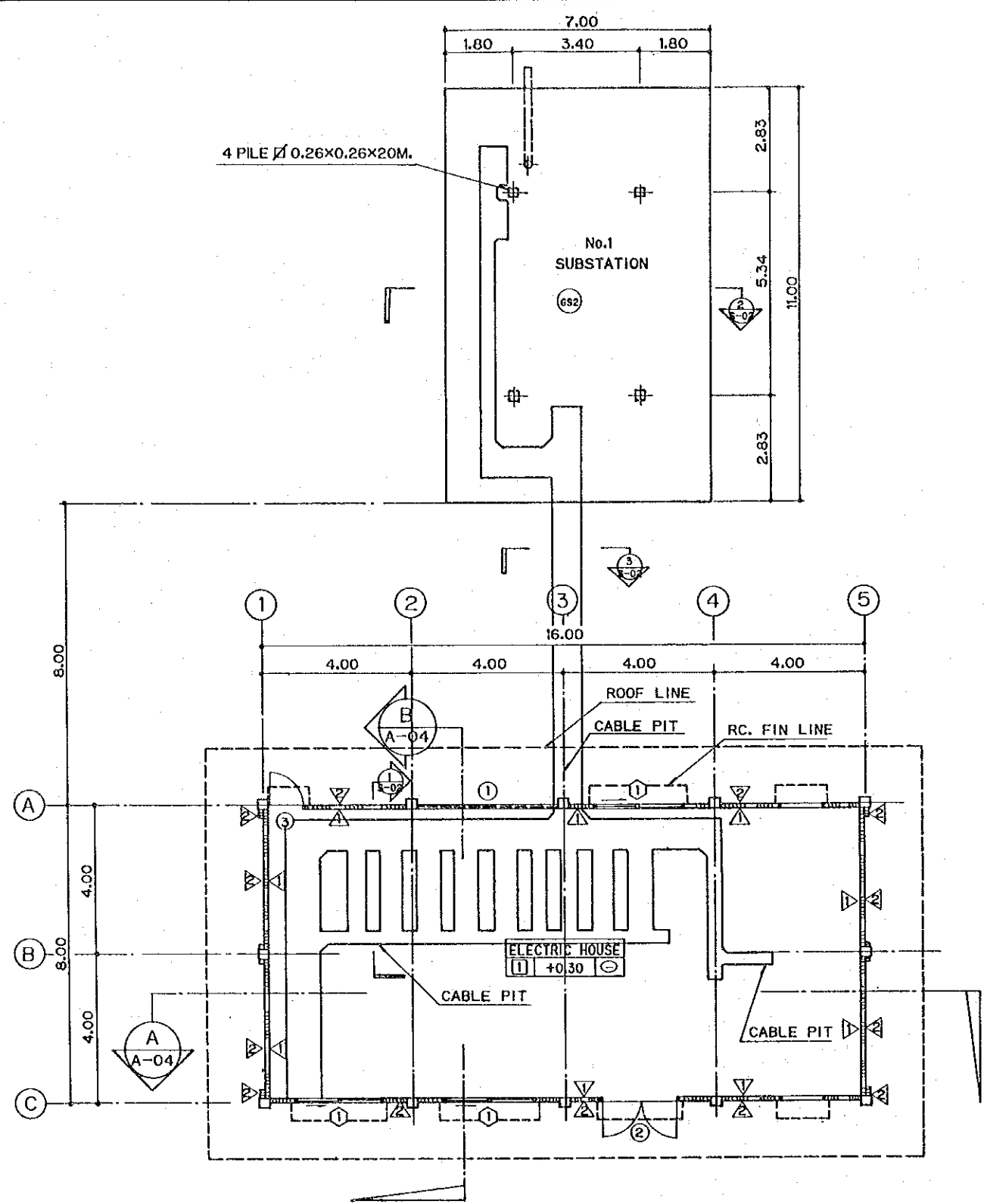
(b) - ELECTRIC HOUSE

(c) - No.1 SUBSTATION

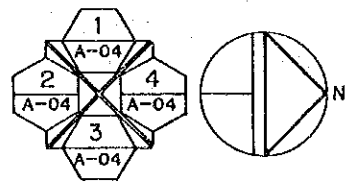
LAY-OUT



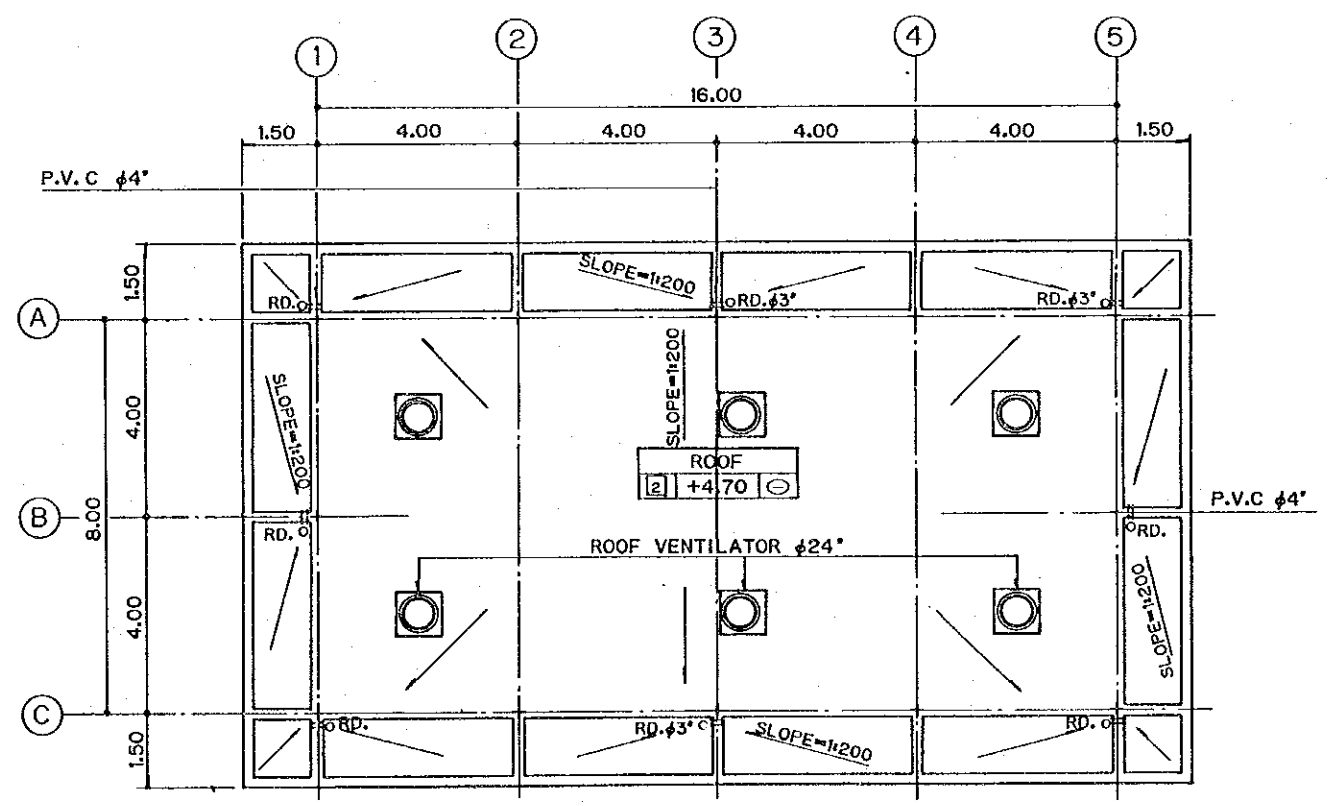
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(2/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1069	



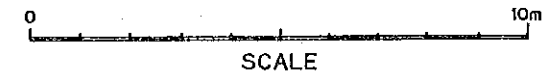
GROUND FLOOR PLAN



DIRECTION OF ELEVATION

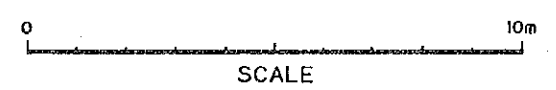
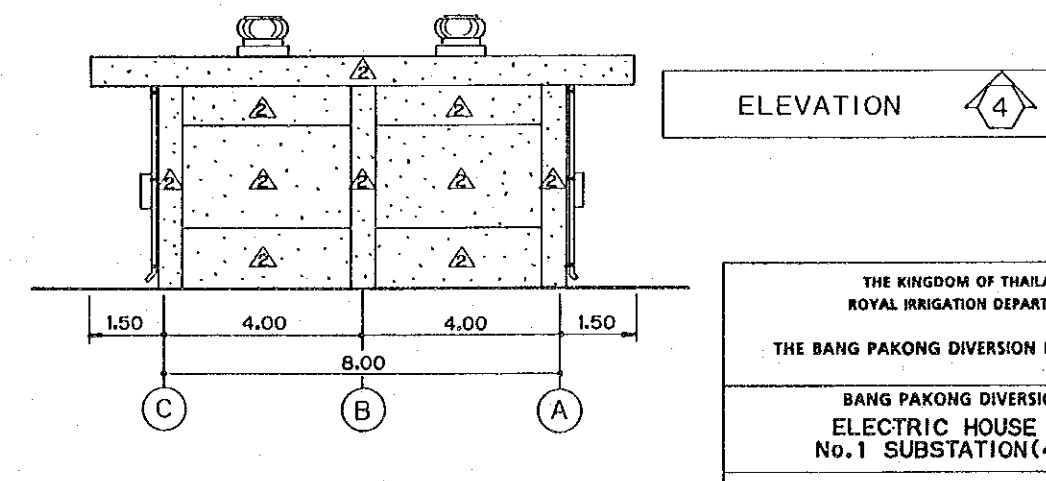
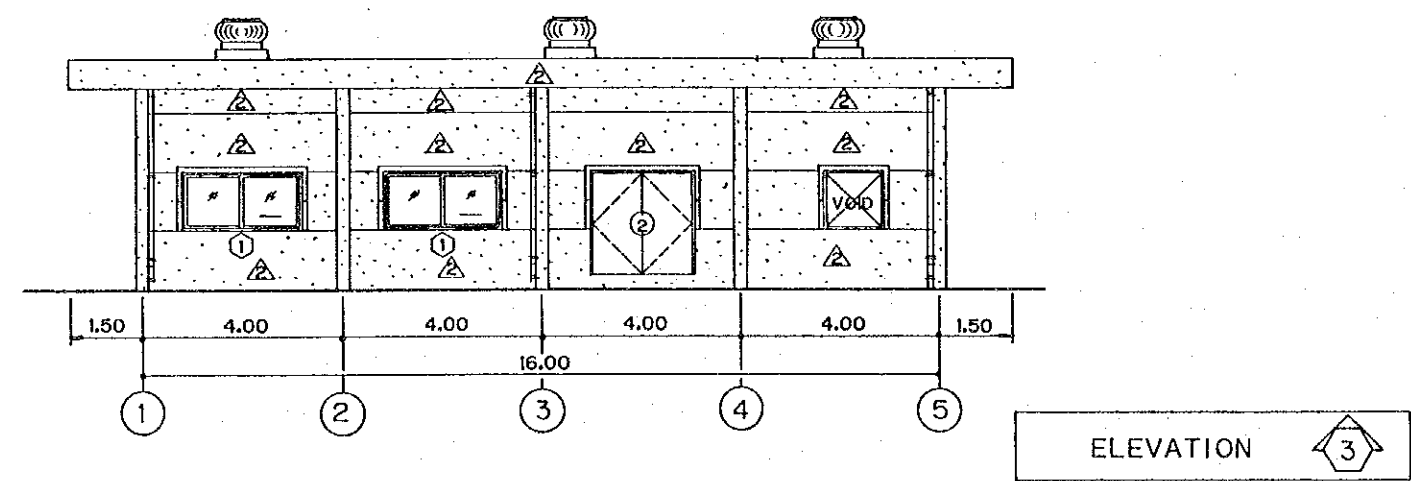
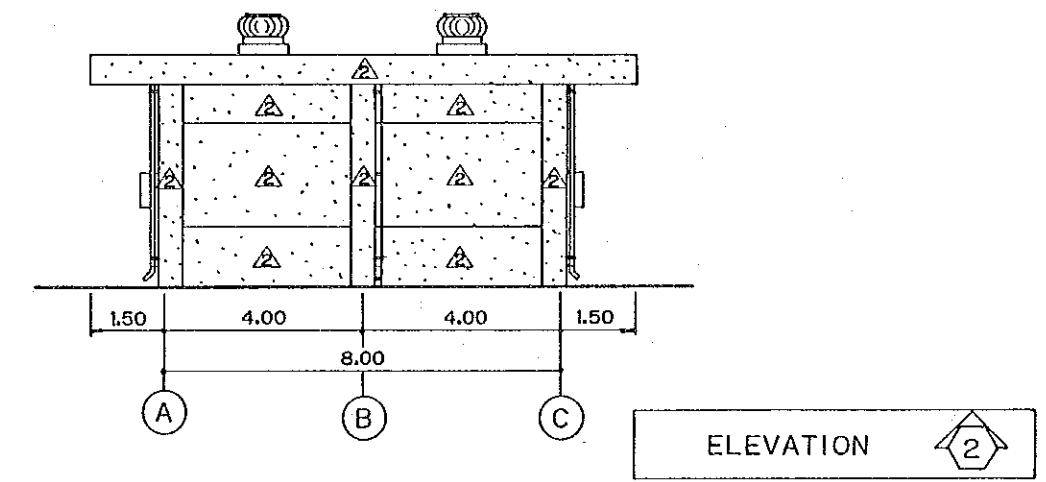
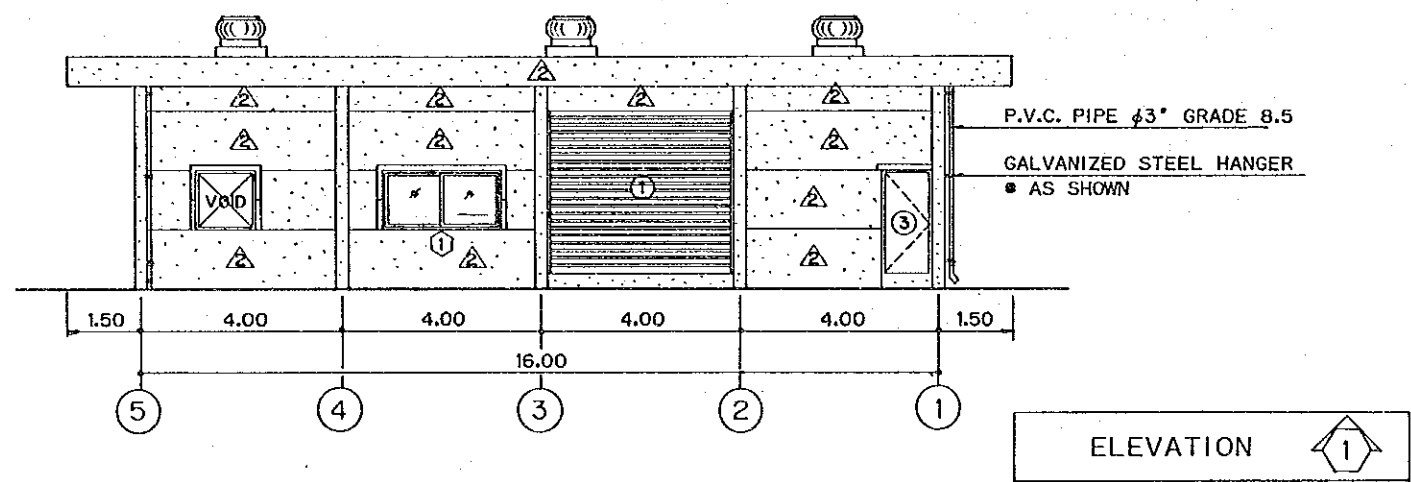
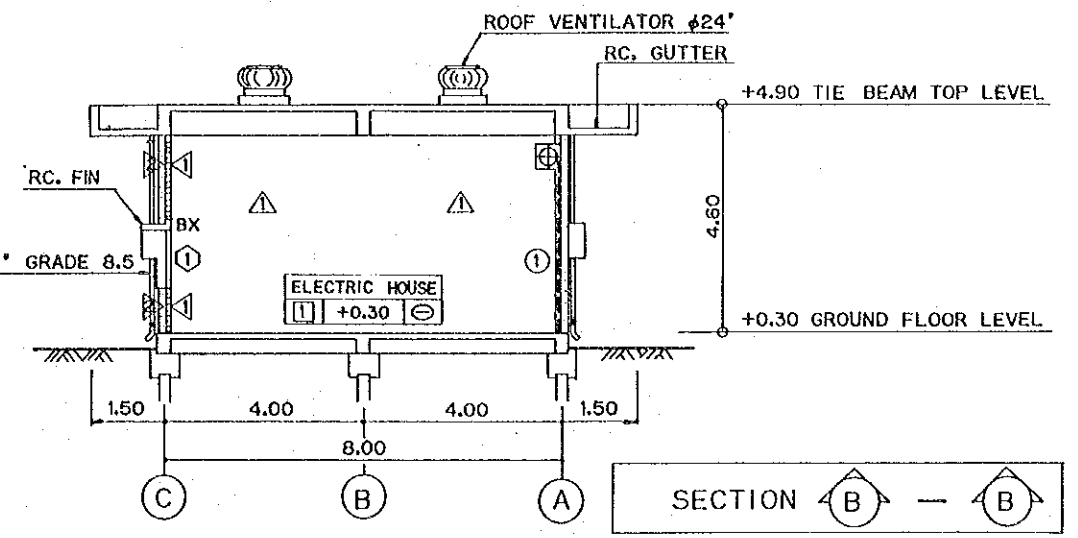
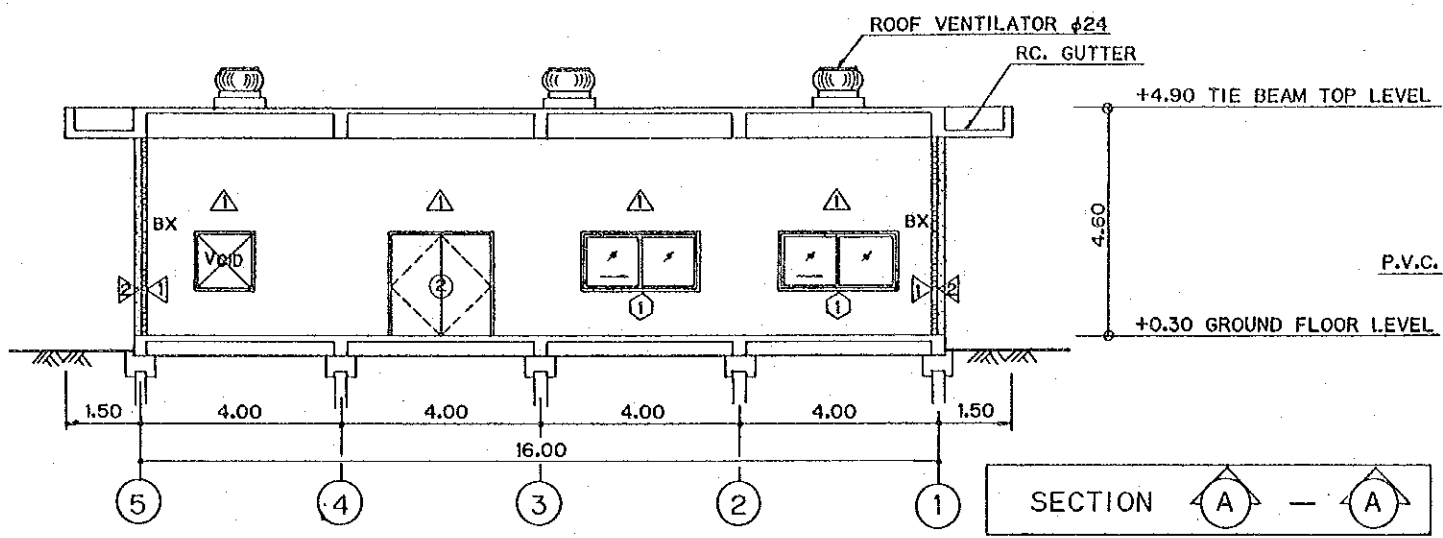


ROOF PLAN

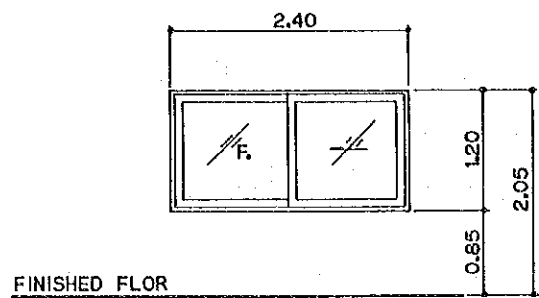


SCALE

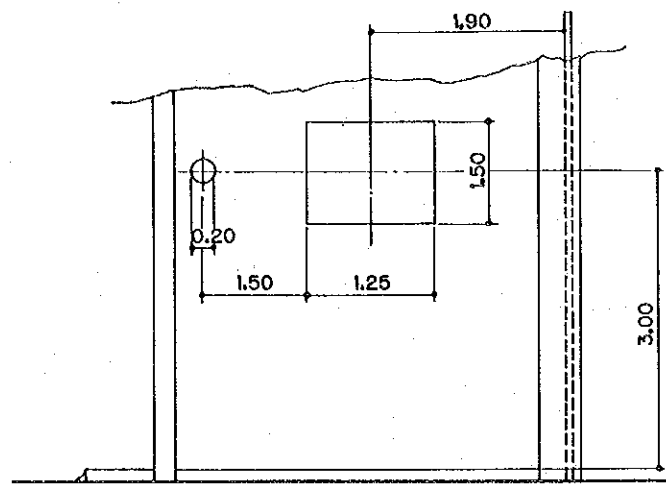
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(3/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1070	



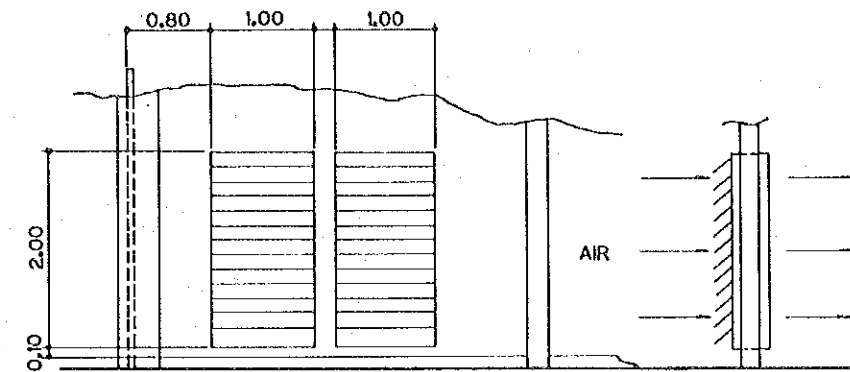
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(4/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1071	



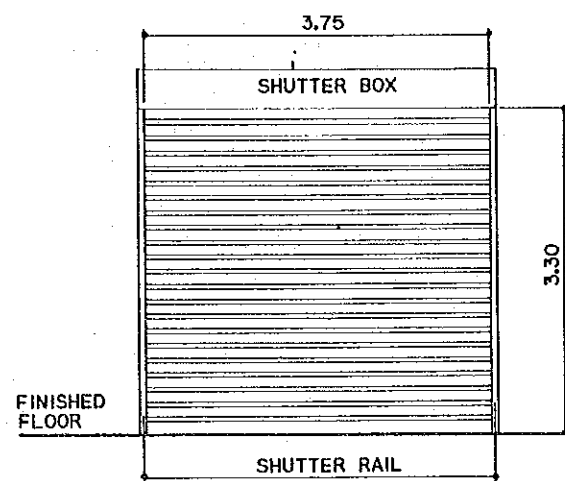
①



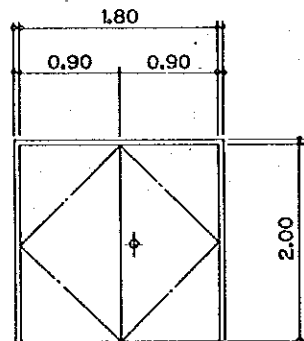
A-A' AIR-EXHAUST SCALE "A"



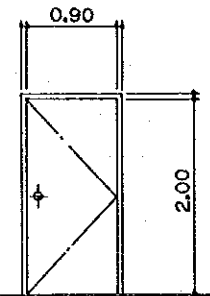
B-B' AIR-IN SCALE "A"



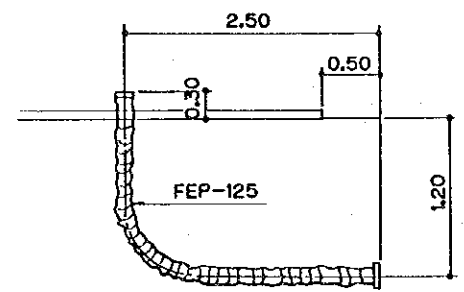
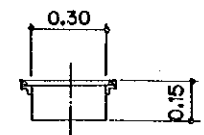
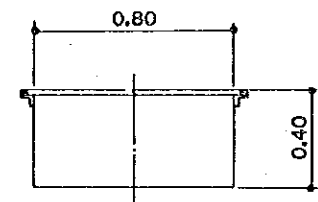
①



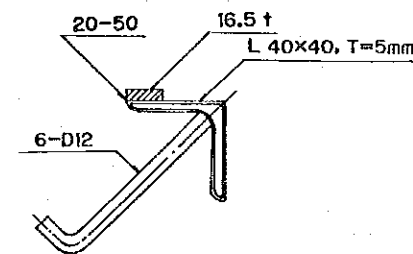
②



③



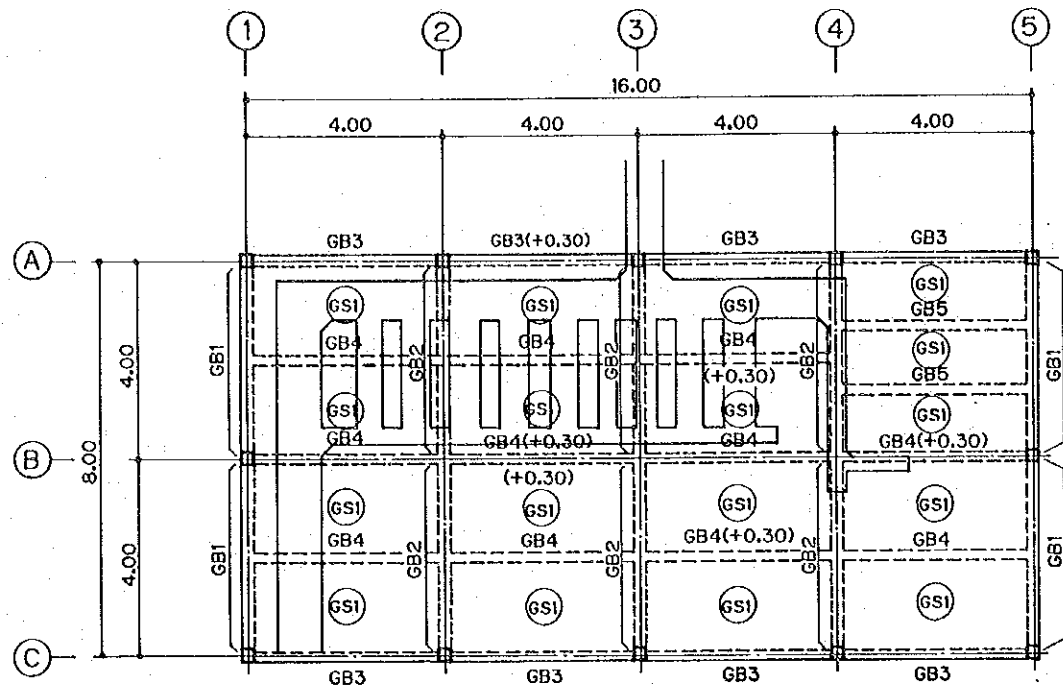
H-H' SCALE "A"



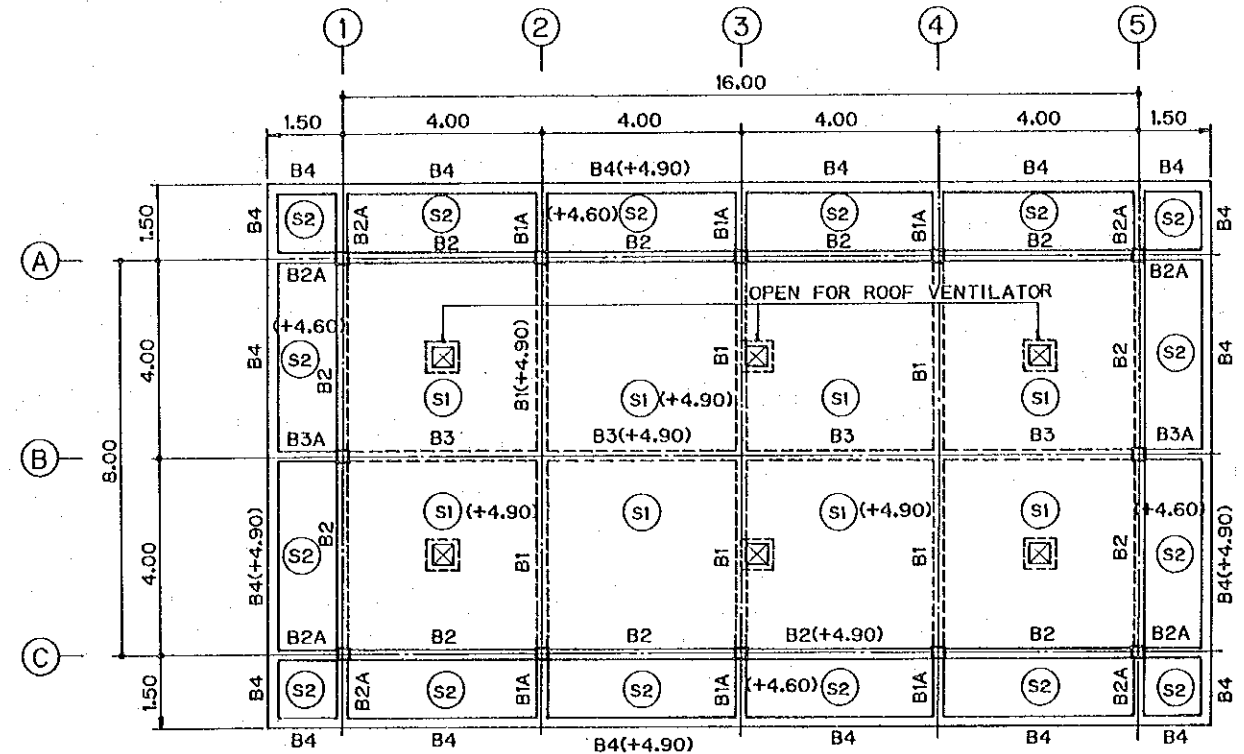
CABLE PIT



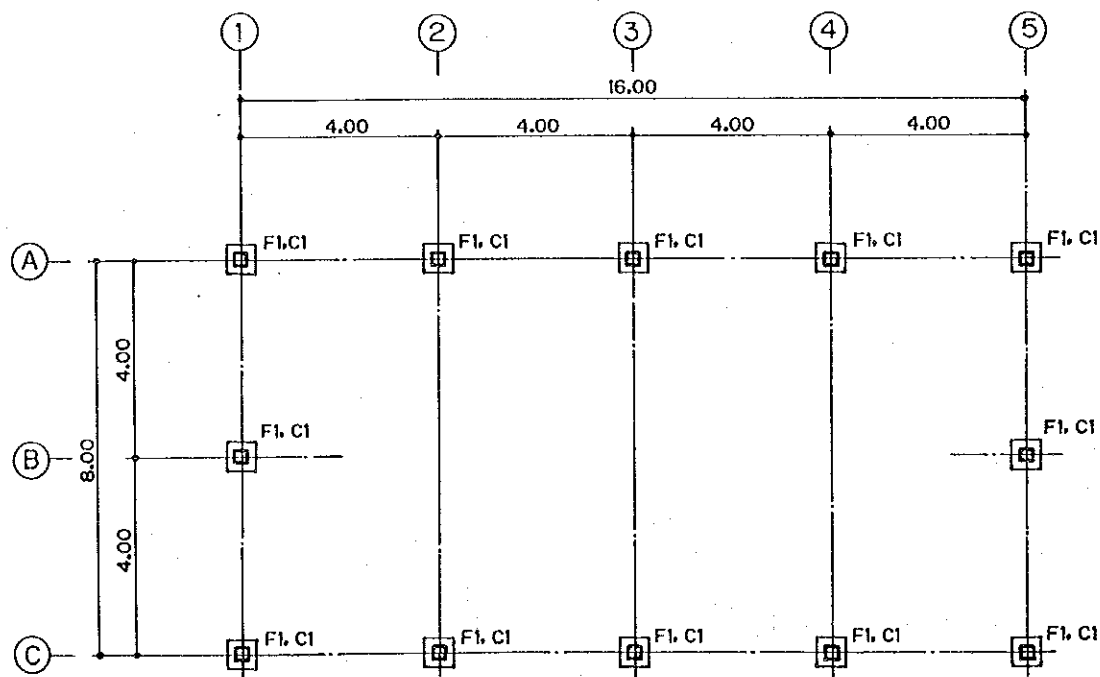
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(6/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
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DRAWING NO. DDM - 1073	



GROUND FLOOR FRAMING PLAN



ROOF FRAMING PLAN



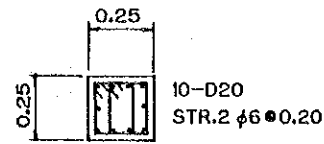
FOUNDATION & COLUMN PLAN

STRUCTURAL SPECIFICATION:

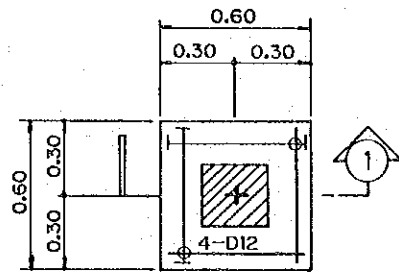
1. CONCRETE CYLINDER STRENGTH AT 28DAYS > 240KSC.
2. REINFORCE STEEL FOR $\phi 6\text{mm}$. -SR24
FOR $\phi 10\text{mm}$. UP -SD30
3. STRUCTURAL STEEL - ASTM.A36
4. F1 USE P.C. PILE $\phi 0.30 \times 20\text{m}$
(SAFE LOAD = 40TON/PILE)



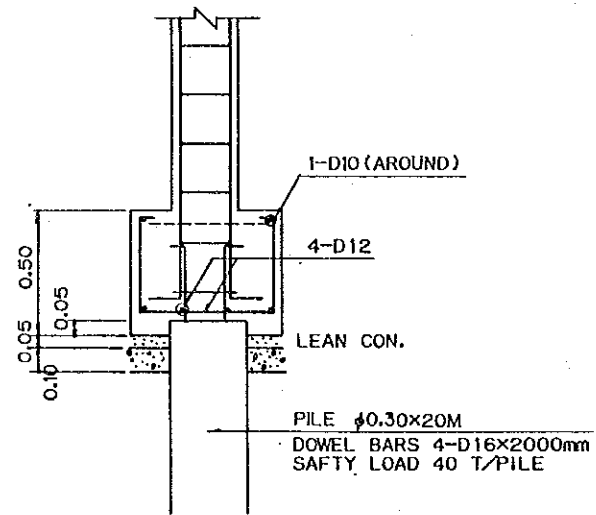
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(7/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1074	



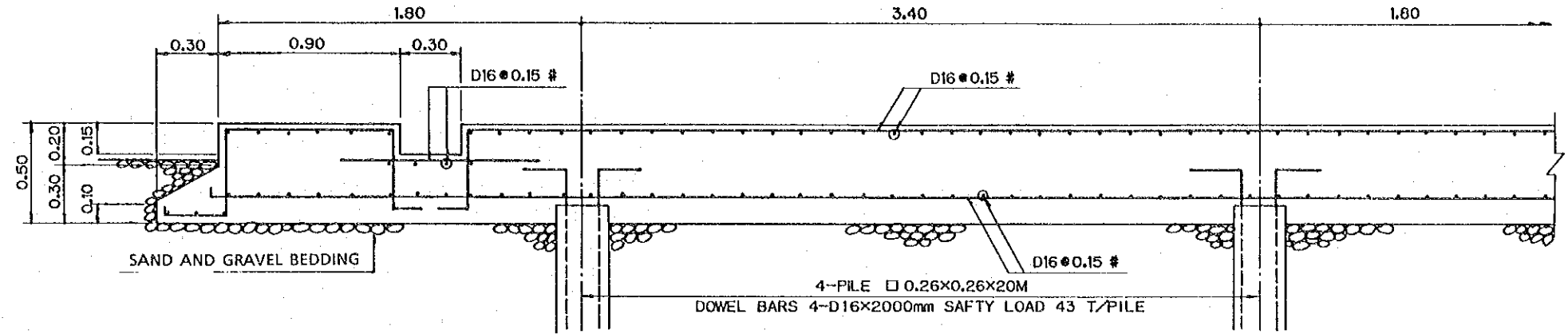
C1



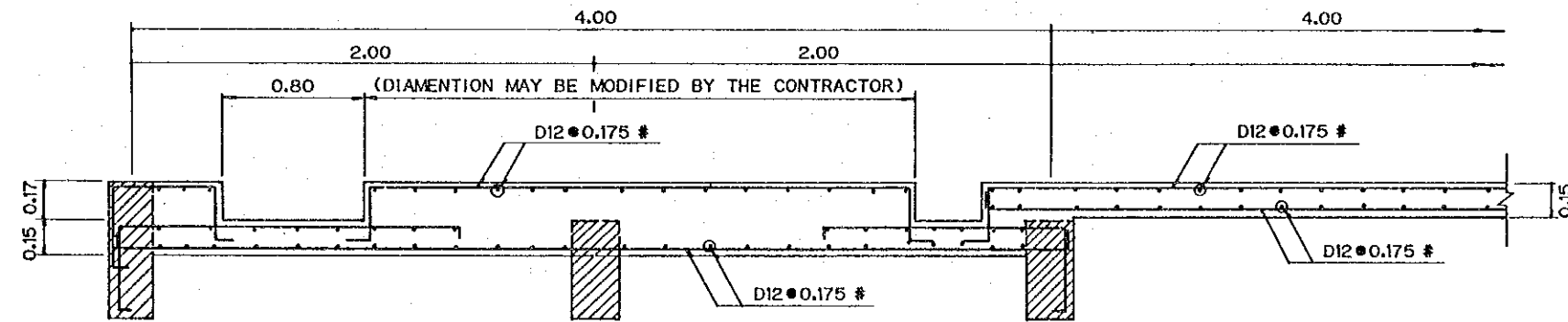
F1



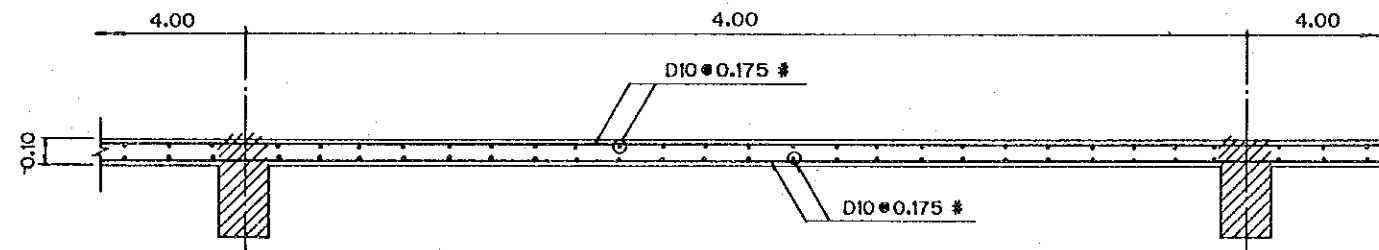
SECTION 1 FI



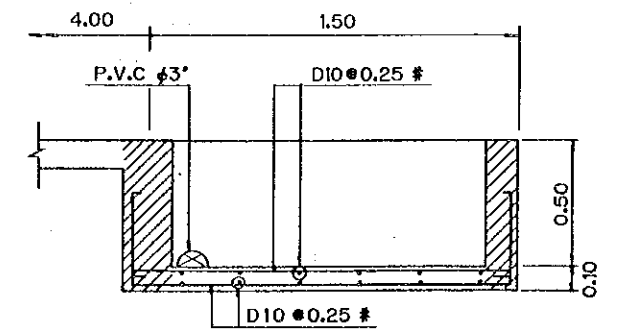
SECTION 2 GS2



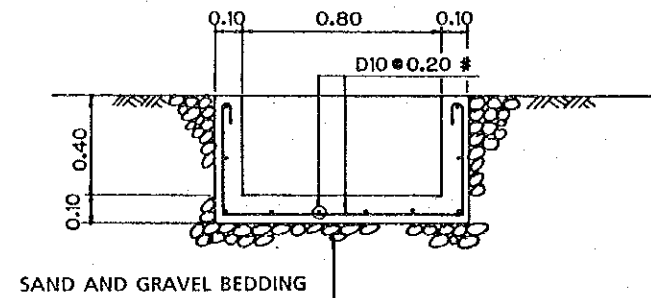
SECTION 1 GS1



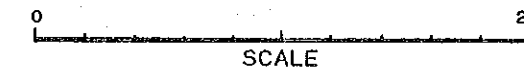
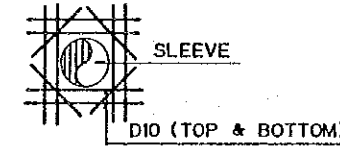
S1



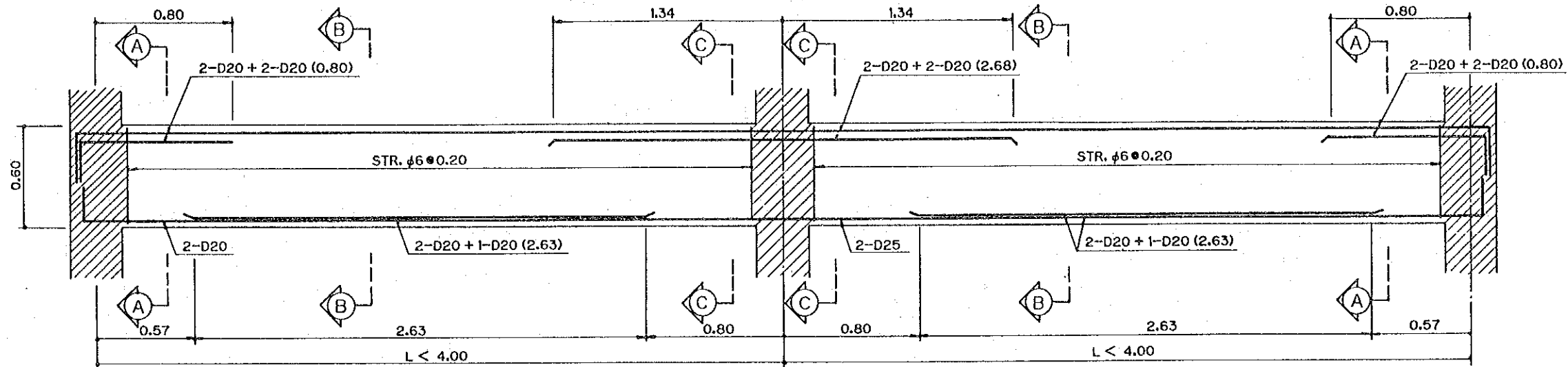
S2



SECTION 3 GS

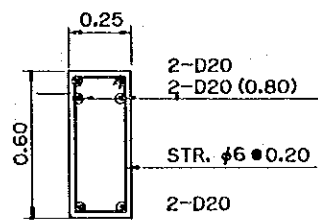


THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(8/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
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APPROVED	
DRAWING NO. DDM - 1075	



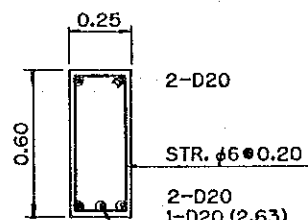
GB1 (LONG. SECTION)

GB1 (LONG. SECTION)



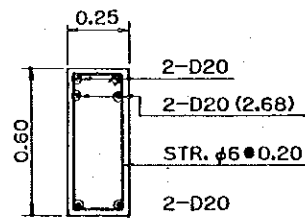
SECTION A-A

GB1



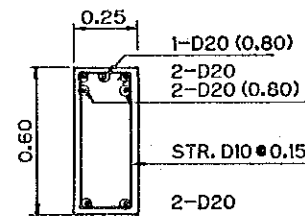
SECTION B-B

GB1



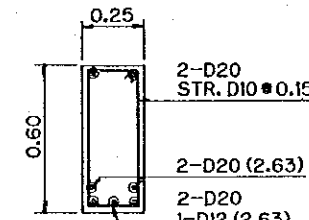
SECTION C-C

GB1



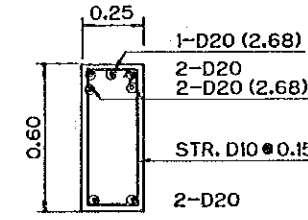
SECTION D-D

GB2



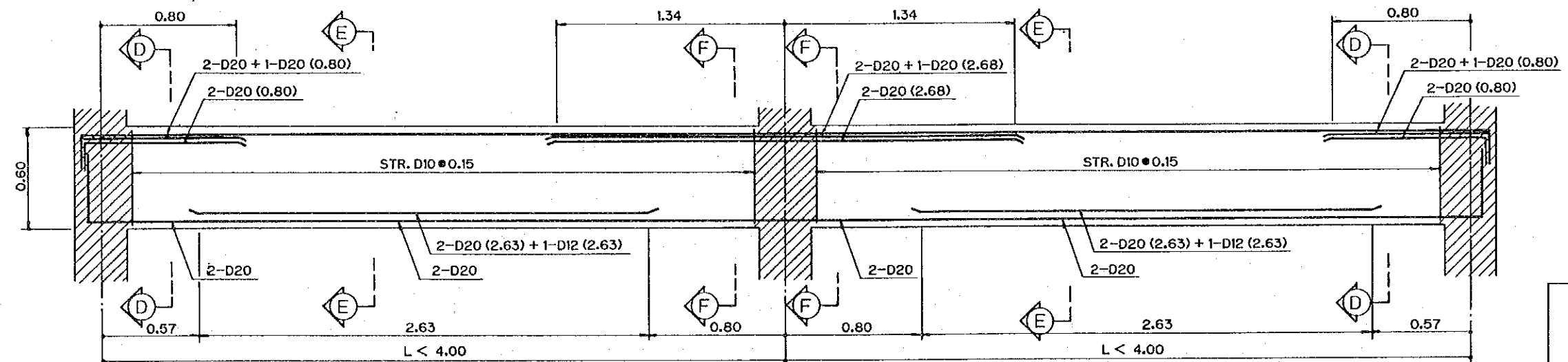
SECTION E-E

GB2



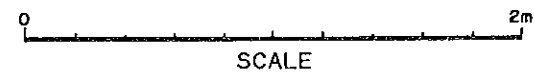
SECTION F-F

GB2

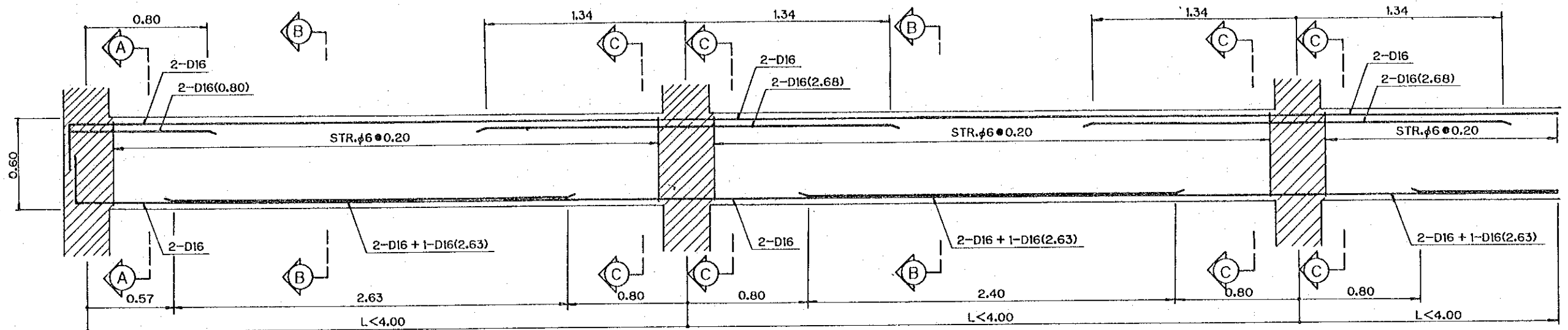


GB2 (LONG. SECTION)

GB2 (LONG. SECTION)

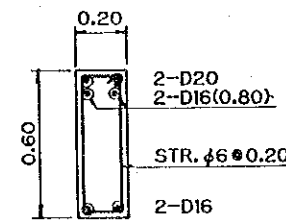


THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(9/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	DDM - 1076

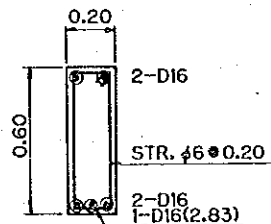


GB3 (LONG. SECTION)

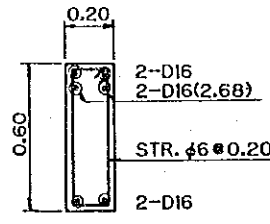
GB3 (LONG. SECTION)



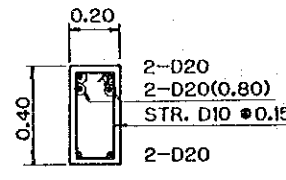
SECTION A-A
GB3



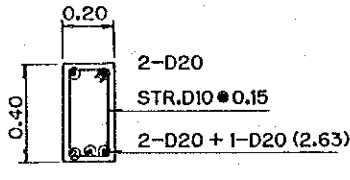
SECTION B-B
GB3



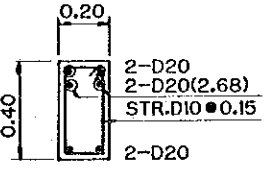
SECTION C-C
GB3



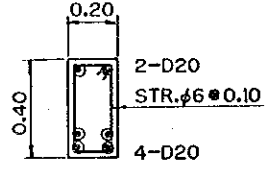
SECTION D-D
GB4



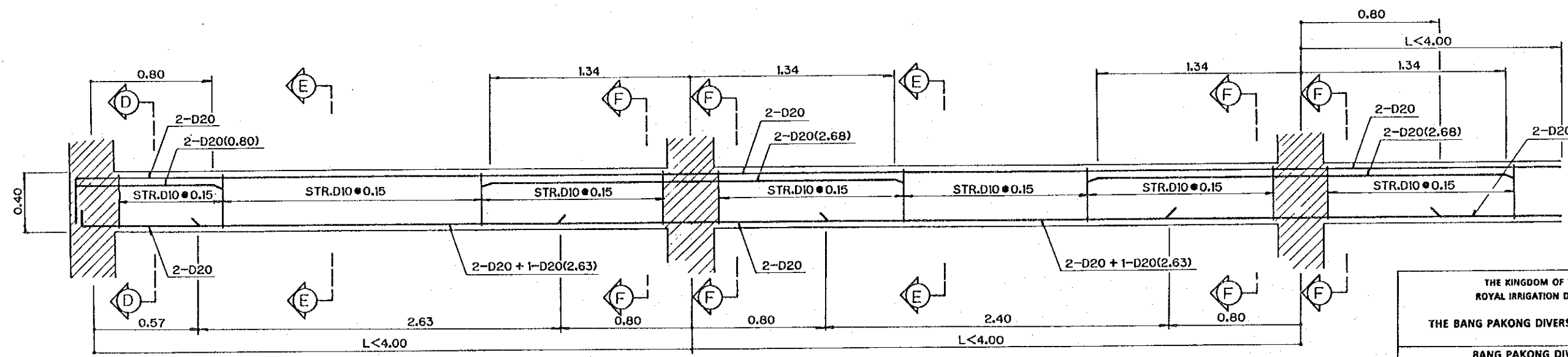
SECTION E-E
GB4



SECTION F-F
GB4



SECTION G-G
GB5

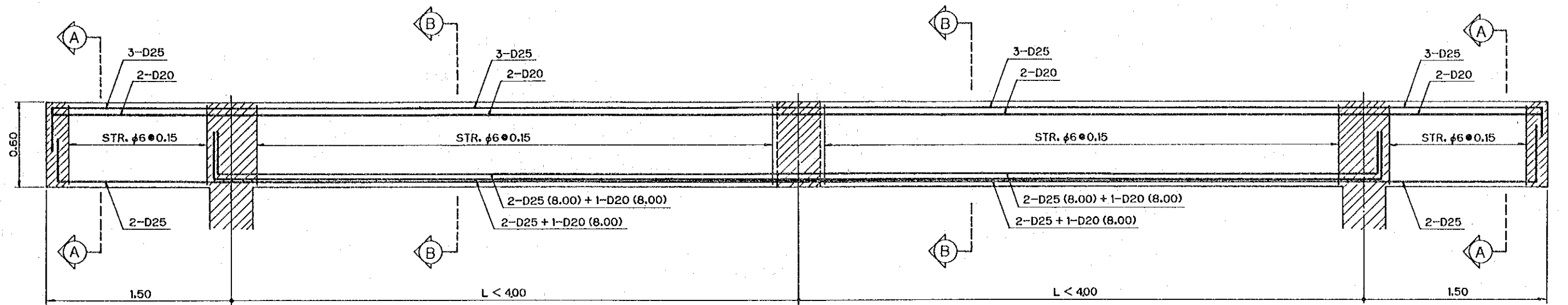


GB4 (LONG. SECTION)

GB4 (LONG. SECTION)



THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION (10/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
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APPROVED	
DRAWING NO. DDM - 1077	

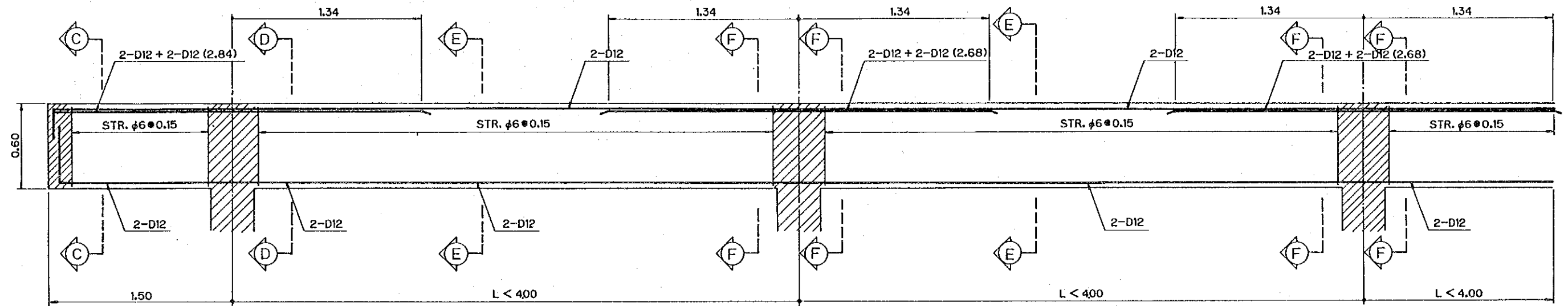


B1A (LONG. SECTION)

B1 (LONG. SECTION)

B1 (LONG. SECTION)

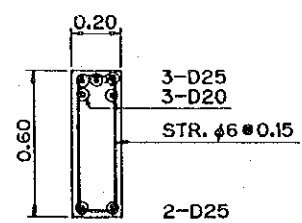
B1A (LONG. SECTION)



B2A (LONG. SECTION)

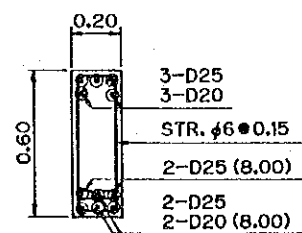
B2 (LONG. SECTION)

B2 (LONG. SECTION)



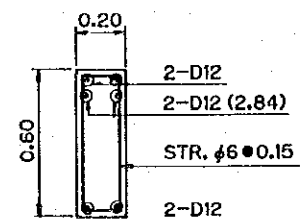
SECTION A-A

B1A



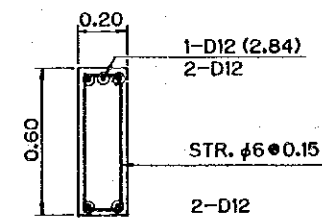
SECTION B-B

B1



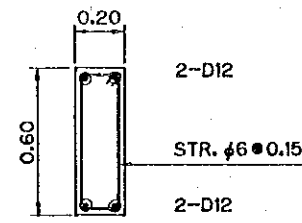
SECTION C-C

B2A



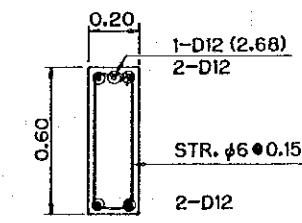
SECTION D-D

B2



SECTION E-E

B2

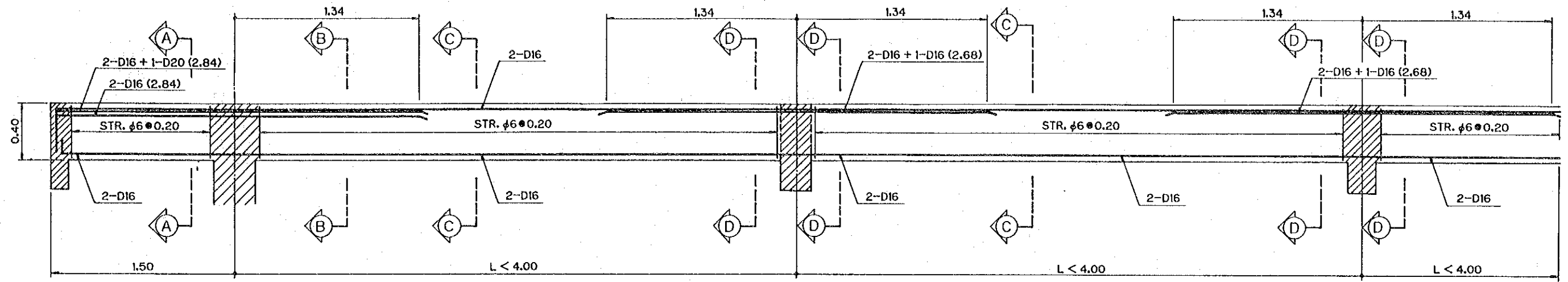


SECTION F-F

B2



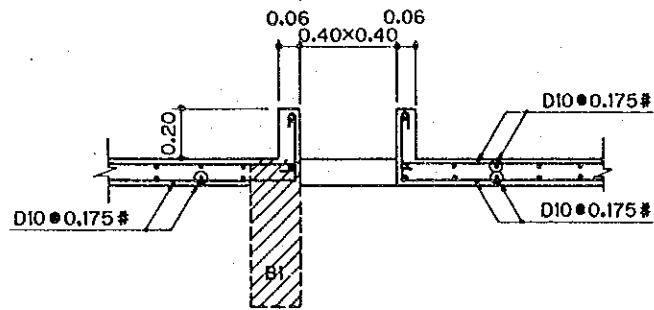
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(11/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1078	



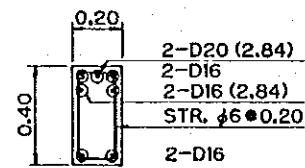
B3A (LONG. SECTION)

B3 (LONG. SECTION)

B3 (LONG. SECTION)

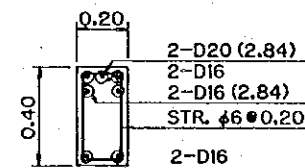


DETAIL OPENING FOR ROOF VENTILATOR



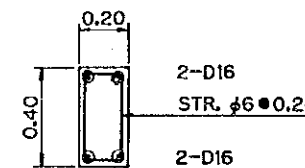
SECTION A-A

B3A



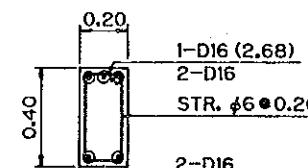
SECTION B-B

B3



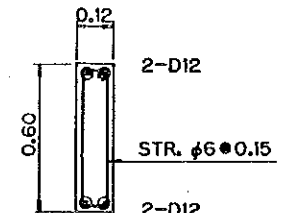
SECTION C-C

B3

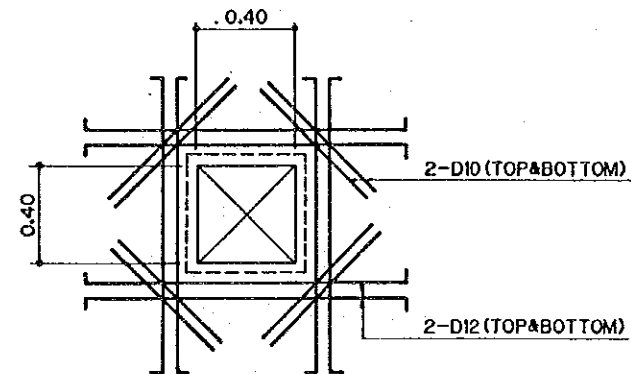


SECTION D-D

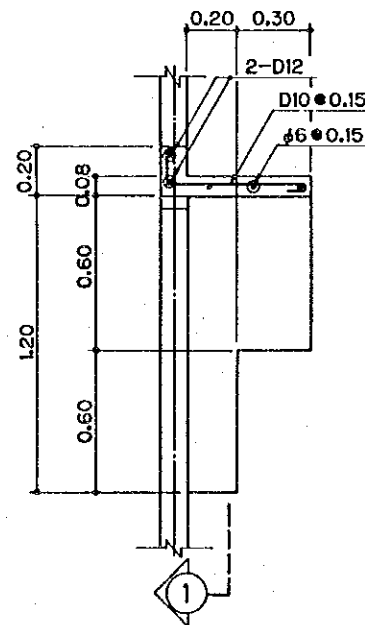
B3



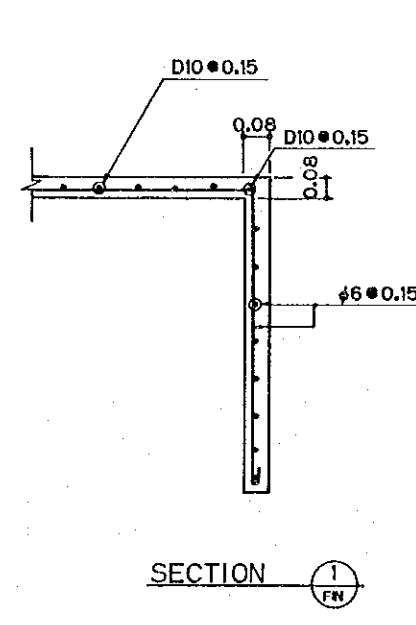
B4



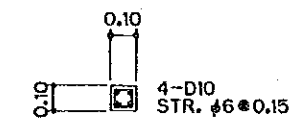
OPENING FOR ROOF VENTILATOR PLAN



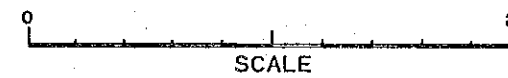
SECTION 1



SECTION 1 FN

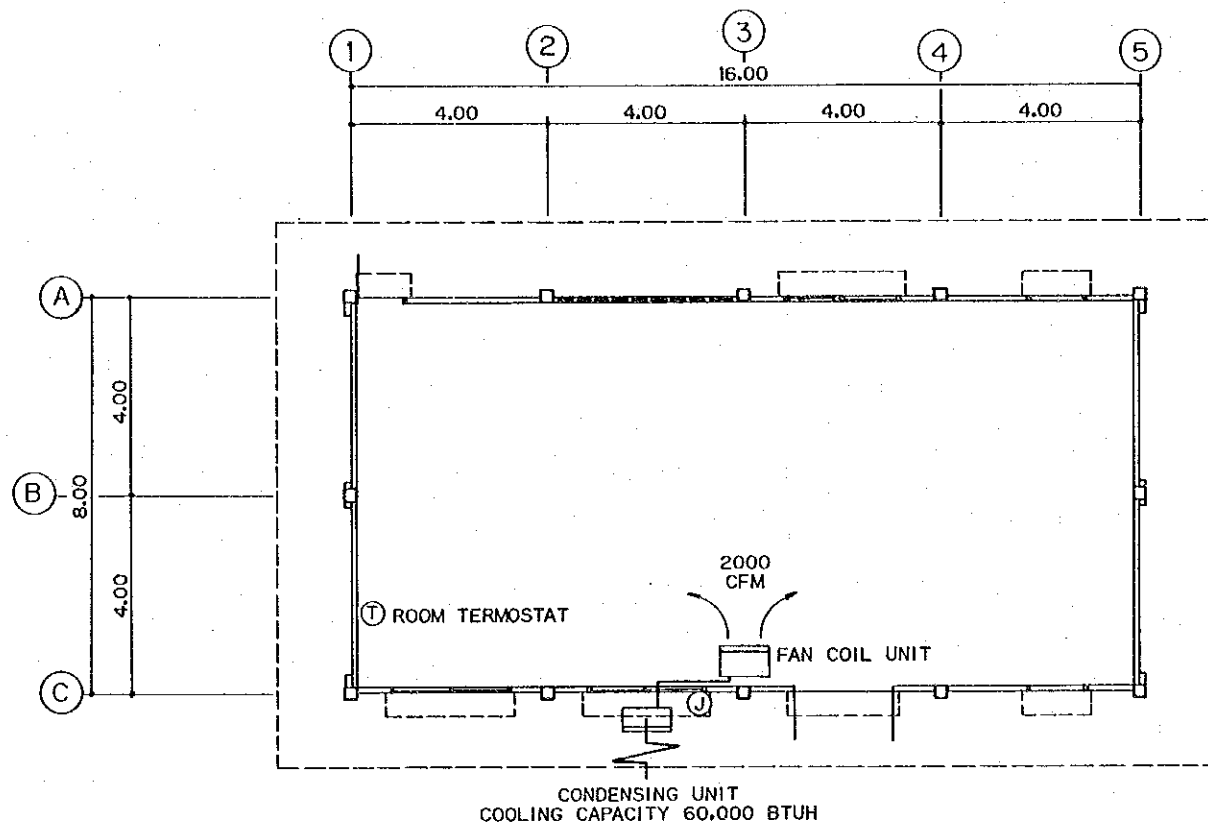


TIE COLUMN



SCALE

THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION (12/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO.	DDM - 1079



NOTES:

1. PACKAGE TYPE AIR-CONDITIONING SYSTEM.
2. AIR HANDLER MUST BE ABLE TO PROVIDE COOL-AIR NOT LESS THAN 2000 CFM.
3. CONDENSING UNIT AND AIR HANDLER MUST BE ABLE TO PROVIDE COOLING NOT LESS THAN 60,000 BTUH AT 80/67 FDB/FWB ON EVAPORATOR COIL TEMPERATURE AND 95 FDB ON CONDENSER COIL TEMPERATURE.
4. AIR HANDLER AND CONDENSING UNIT MUST BE THE SAME MANUFACTURING, BRAND NEW, AND THE DATA-MATCH SHOWN QUANTITY OF THE COOLING PROVIDED.
5. PIPING SIZE MUST BE THE STANDARD FROM THE MANUFACTORY.
6. $\phi 3/4$ " PVC CLASS 8.5 WASTE-WATER PIPE CONCEALED TO THE NEAREST-DRAINAGE.

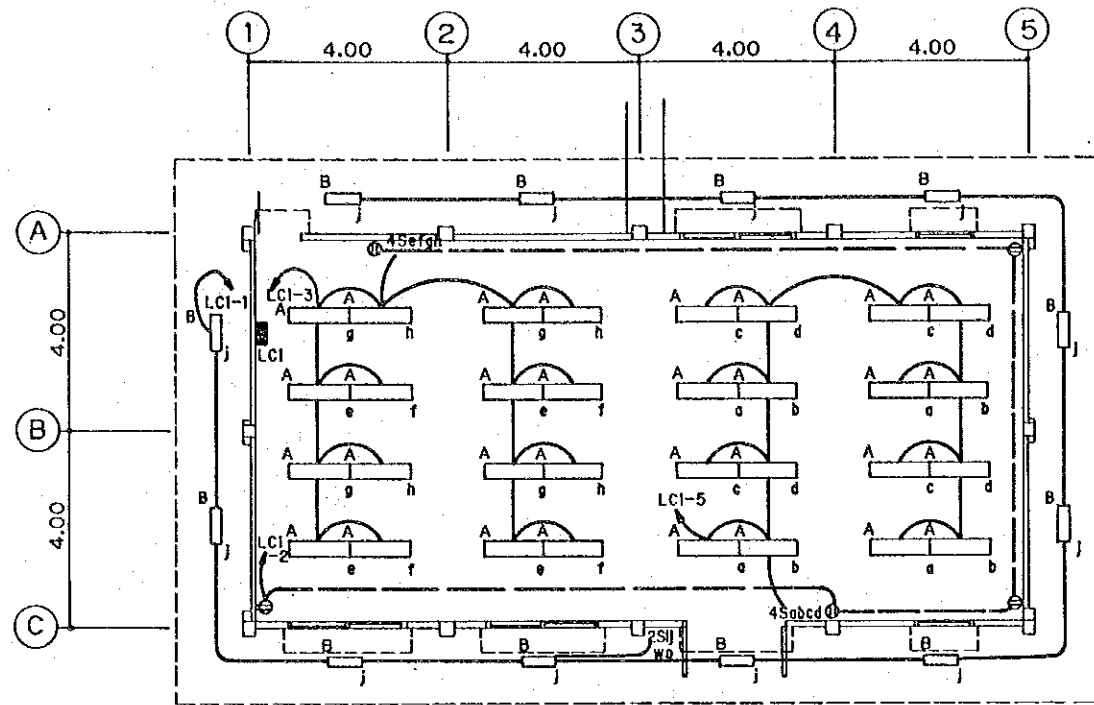
GROUND FLOOR PLAN
SCALE "A"



THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
BANG PAKONG DIVERSION DAM ELECTRIC HOUSE AND No.1 SUBSTATION(13/14)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. DDM - 1080	

380/220V STANDARD PANELBOARD SCHEDULE

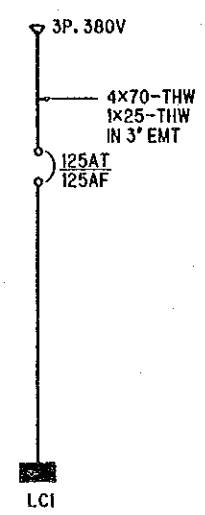
•SHEET No.:1/1 •PANEL No.:LC1 •LOCATION:
 •CAPACITY:42CIRCUITS •MAIN:CB •FOR:LIGHTING & POWER
 •TYPE OF DOOR:HINGED •MOUNTING: SURFACE



GROUND FLOOR PLAN
SCALE 'A'

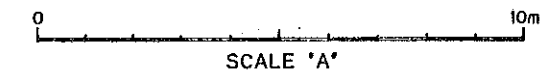
LEGEND

- A 2x36 WATT "LUSO" OR SIMILAR FLUORESENT LIGHT FIXTURE WITH TRANSPERENT PLASTIC COVER.
- B 1x18 WATT "LUSO" OR SIMILAR FLUORESENT LIGHT FIXTURE WITH WHITE OPAL DIFFUSER COVER.
- D 15A, 250V "NATIONAL" "TICINO" OR SIMILAR DUPLEX RECEPTACLE OUTLET.
- S 10A, 250V "NATIONAL" "TICINO" OR SIMILAR SWITCH.
- EMT CONDUIT EXPOSED CONCEALED IN CEILING.
- CONDUIT CONCEALED IN FLOOR SLAB, WALL OR PARTITION
- LOAD CENTER



SINGLE LINE DIAGRAM

CKT No.	CONNECTED LOAD IN VA			CB		CONDUCTORS		REMARKS
	PHASE A	PHASE B	PHASE C	No. POLE	AT	SIZE	TYPE	
1A	300			1	10	2.5	70	LIGHTING
3B		1600		1	10	2.5	70	#
5C			1600	1	10	2.5	70	#
7A	340							
9B		340		3	15	-	-	ROOF VENT FAN
11C			340					
13A	340							
15B		340		3	15	-	-	
17C			340					#
19A				1	10	-	-	SPARE
21B				1	15	-	-	#
23C				1	15	-	-	#
25A								
27B								
29C								
31A								
33B								
35C								
37A								
39B								
41C								
2A	720			1	15	4	70	RECEPTACLE
4B				1	15	-	-	SPARE
6C				1	15	-	-	#
8A	340							
10B		340		3	15	-	-	ROOF VENT FAN
12C			340					
14A	340			3	15	-	-	#
16B		340						
18C			340					
20A	5600							
22B		5600		3	50			SPARE FOR A/C
24C			5600					
26A				1	15	-	-	#
28B				1	15	-	-	#
30C				1	20	-	-	#
32A								
34B								SPARE FOR EQUIPMENT 30KW.
36C								
38A								
40B								
42C								
TOT.	7980	8560	8560	MAIN: 125A/125AF		4x70 1x25	70 70	CONNECTED TO FEEDER NUMBER.
	25100+30000=62600					CONDUIT: 3"EMT		



THE KINGDOM OF THAILAND
 ROYAL IRRIGATION DEPARTMENT
 THE BANG PAKONG DIVERSION DAM PROJECT

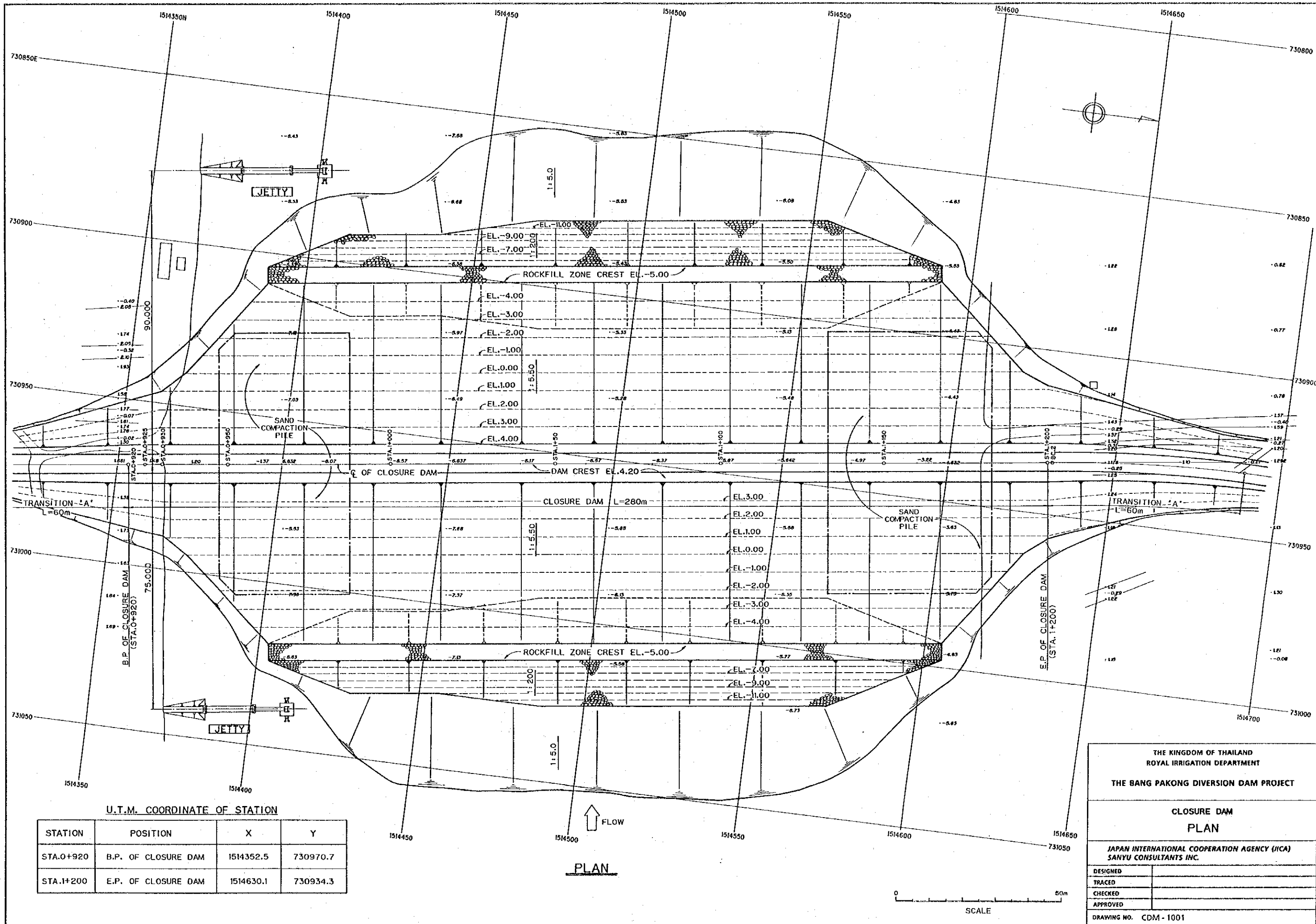
BANG PAKONG DIVERSION DAM
 ELECTRIC HOUSE AND
 No.1 SUBSTATION(14/14)

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
 SANYU CONSULTANTS INC.

DESIGNED _____
 TRACED _____
 CHECKED _____
 APPROVED _____

DRAWING NO. DDM - 1081

CLOSURE DAM



U.T.M. COORDINATE OF STATION

STATION	POSITION	X	Y
STA. 0+920	B.P. OF CLOSURE DAM	1514352.5	730970.7
STA. 1+200	E.P. OF CLOSURE DAM	1514630.1	730934.3

PLAN

THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

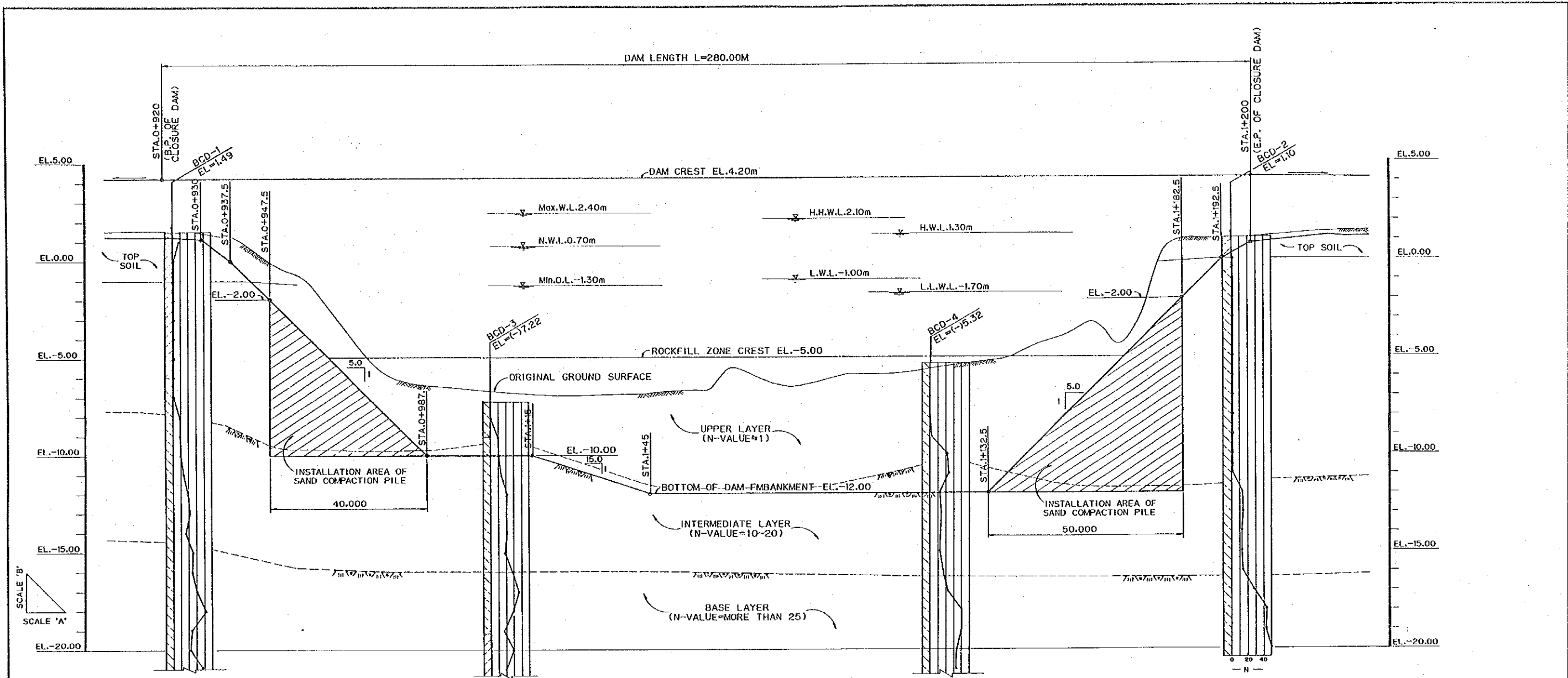
THE BANG PAKONG DIVERSION DAM PROJECT

**CLOSURE DAM
PLAN**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

DRAWING NO. CDM - 1001

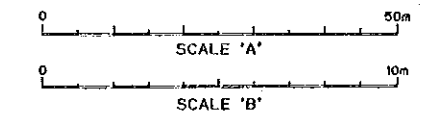


SCALE 'B'
SCALE 'A'

GROUND ELEVATION	1.60	1.50	1.40	1.20	-0.30	-2.50	-5.50	-6.40	-6.70	-6.90	-7.05	-6.90	-6.80	-6.20	-5.90	-5.40	-6.20	-4.05	-4.20	-1.00	1.10	1.15
EXCAVATION ELEVATION	1.30	1.20	1.10	0.00	-2.50	-5.00	-7.50	-10.00	-10.00	-10.00	-10.67	-12.00	-12.00	-12.00	-12.00	-12.00	-12.00	-8.50	-5.00	-3.50	0.00	0.80
CREST ELEVATION	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
ACCUM. DISTANCE	0.00	5.00	10.00	17.50	30.00	42.50	55.00	67.50	80.00	95.00	105.00	125.00	130.00	155.00	180.00	205.00	212.50	230.00	247.50	255.00	272.50	280.00
DISTANCE	0.00	5.00	5.00	7.50	12.50	12.50	12.50	12.50	12.50	15.00	10.00	20.00	5.00	25.00	25.00	25.00	7.50	17.50	17.50	7.50	17.50	7.50
STATION	STA. 0+920.00	+925.00	+930.00	+937.50	+950.00	+962.50	+975.00	+987.50	STA. 1+000.00	+105.00	+125.00	+150.00	+175.00	+200.00	+225.00	+250.00	+275.00	+300.00	+325.00	+350.00	+375.00	+400.00

- LEGEND**
- CL' SILTY CLAY (TOP SOIL)
 - CL LEAN CLAY, SILTY CLAY
 - SC CLAYEY SAND
 - GEOLOGICAL BOUNDARY LINE
 - INTERMEDIATE LAYER LINE (ASSUMED)
 - BASE LAYER LINE (ASSUMED)

PROFILE ON AXIS OF CLOSURE DAM



THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

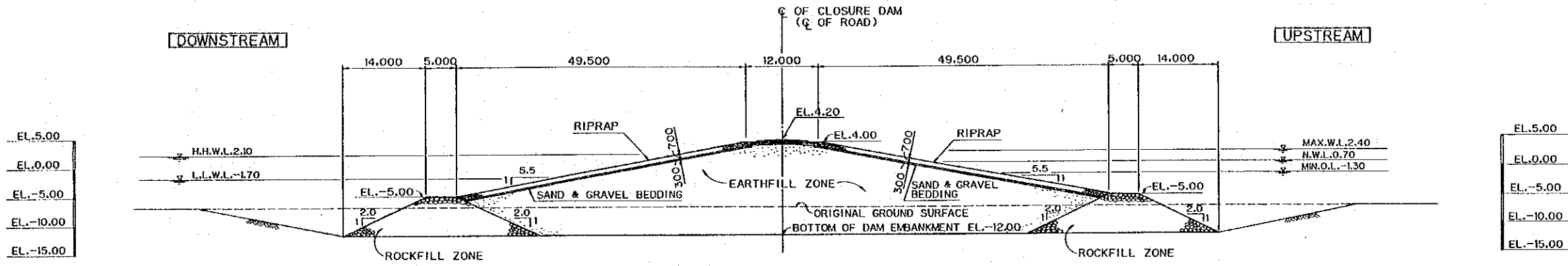
THE BANG PAKONG DIVERSION DAM PROJECT

CLOSURE DAM
PROFILE

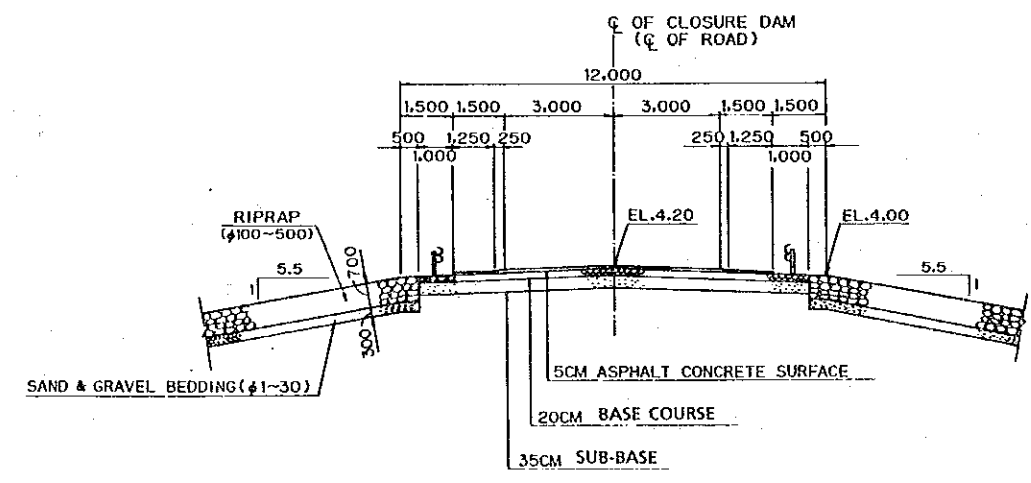
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

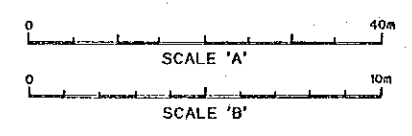
DRAWING NO. CDM - 1002



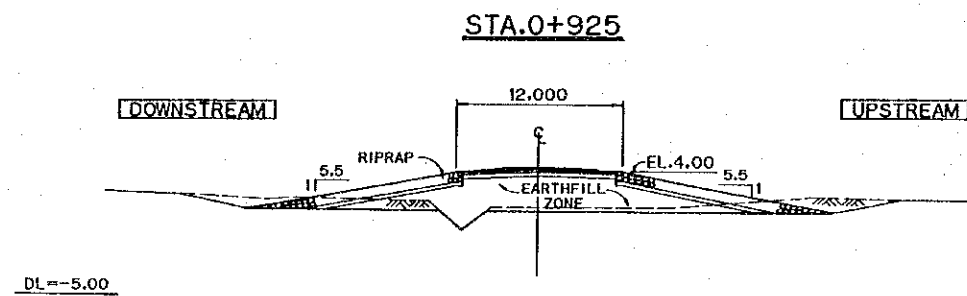
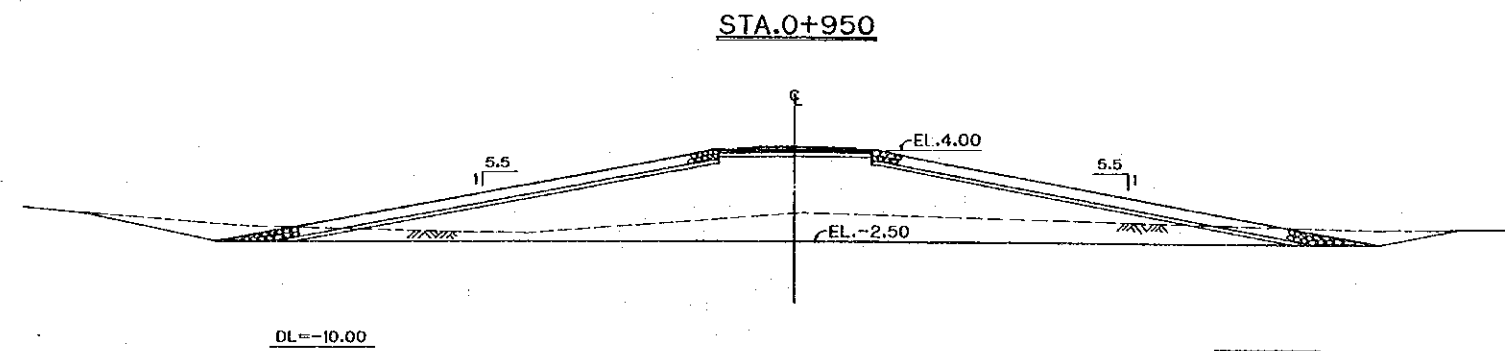
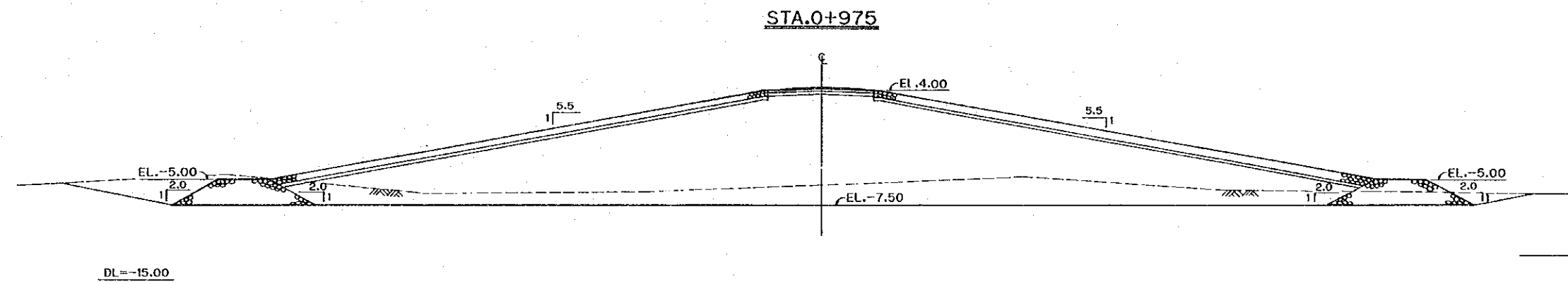
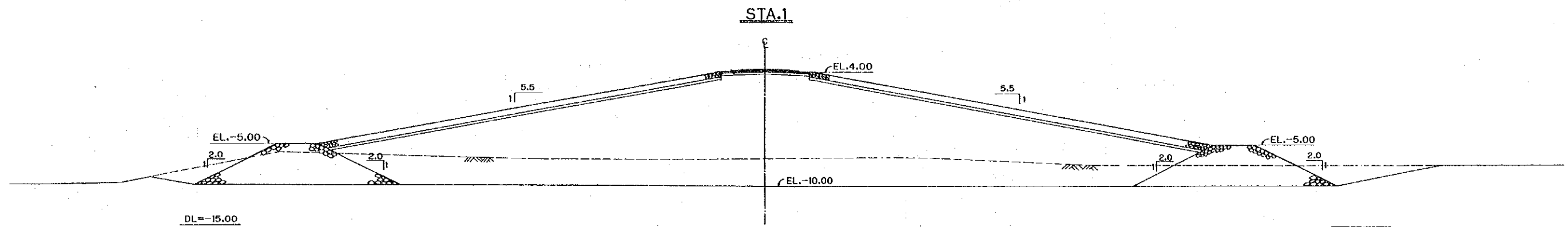
TYPICAL SECTION
SCALE 'A'



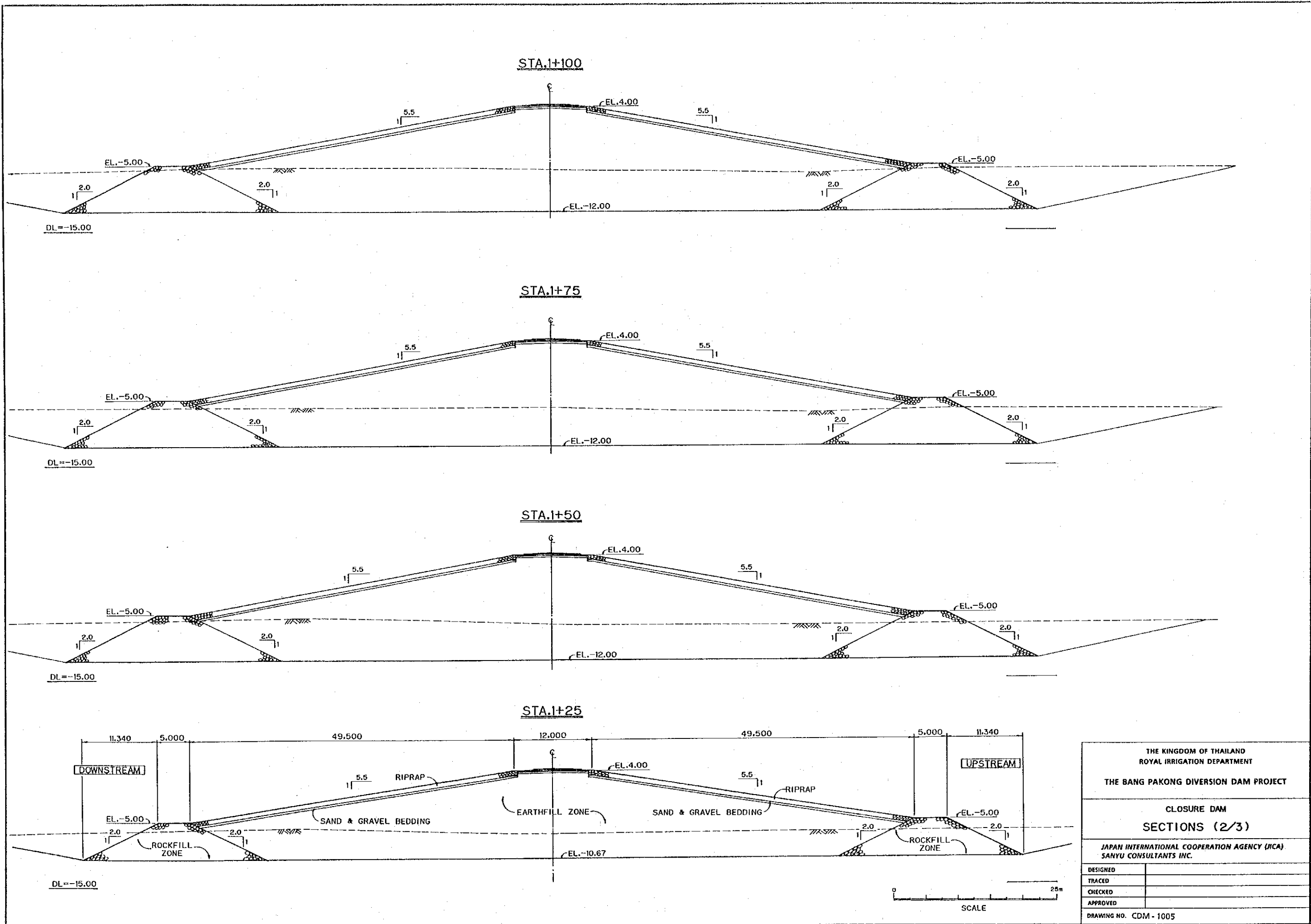
DETAIL OF CREST
SCALE 'B'



THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
CLOSURE DAM MAXIMUM SECTION	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. CDM - 1003	

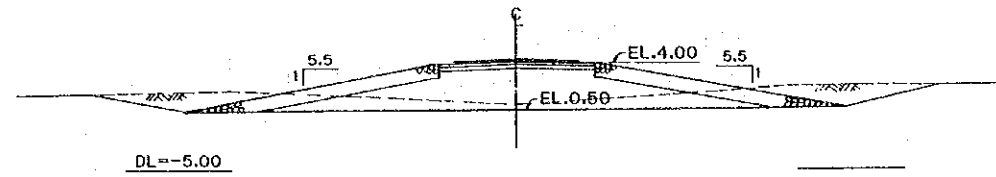


THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
CLOSURE DAM SECTIONS (1/3)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. CDM - 1004	

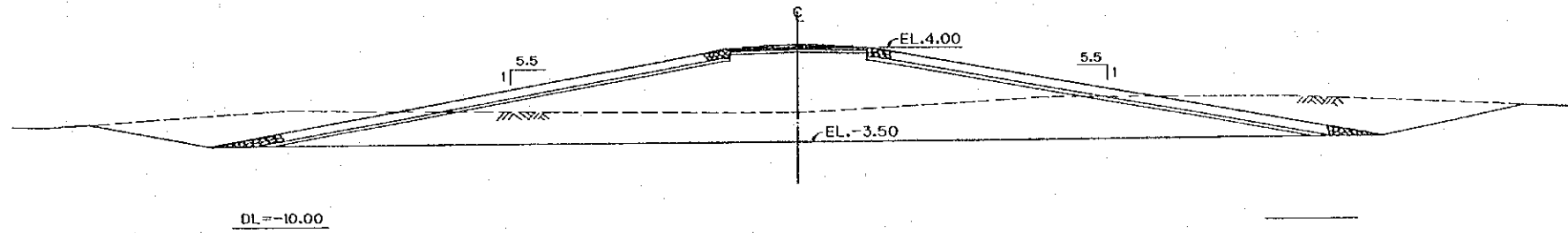


THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
CLOSURE DAM	
SECTIONS (2/3)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. CDM - 1005	

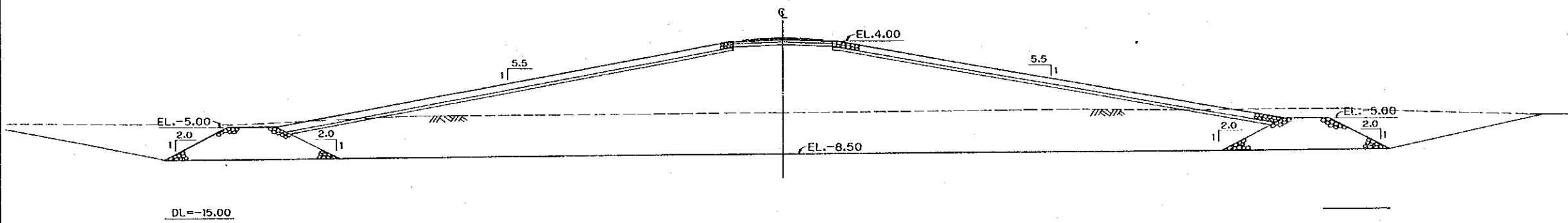
STA.1+200



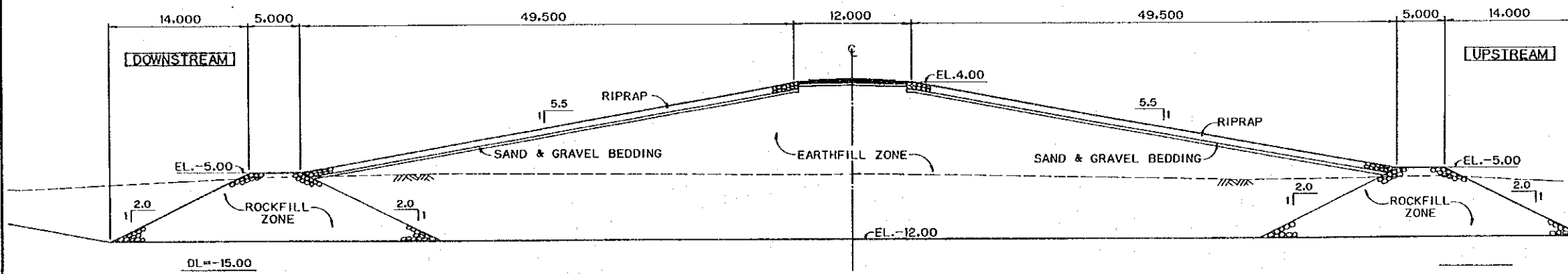
STA.1+175



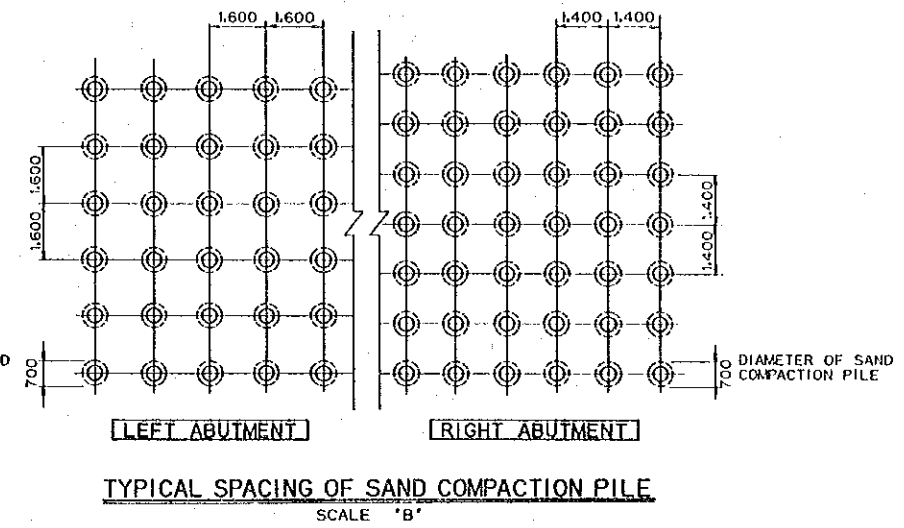
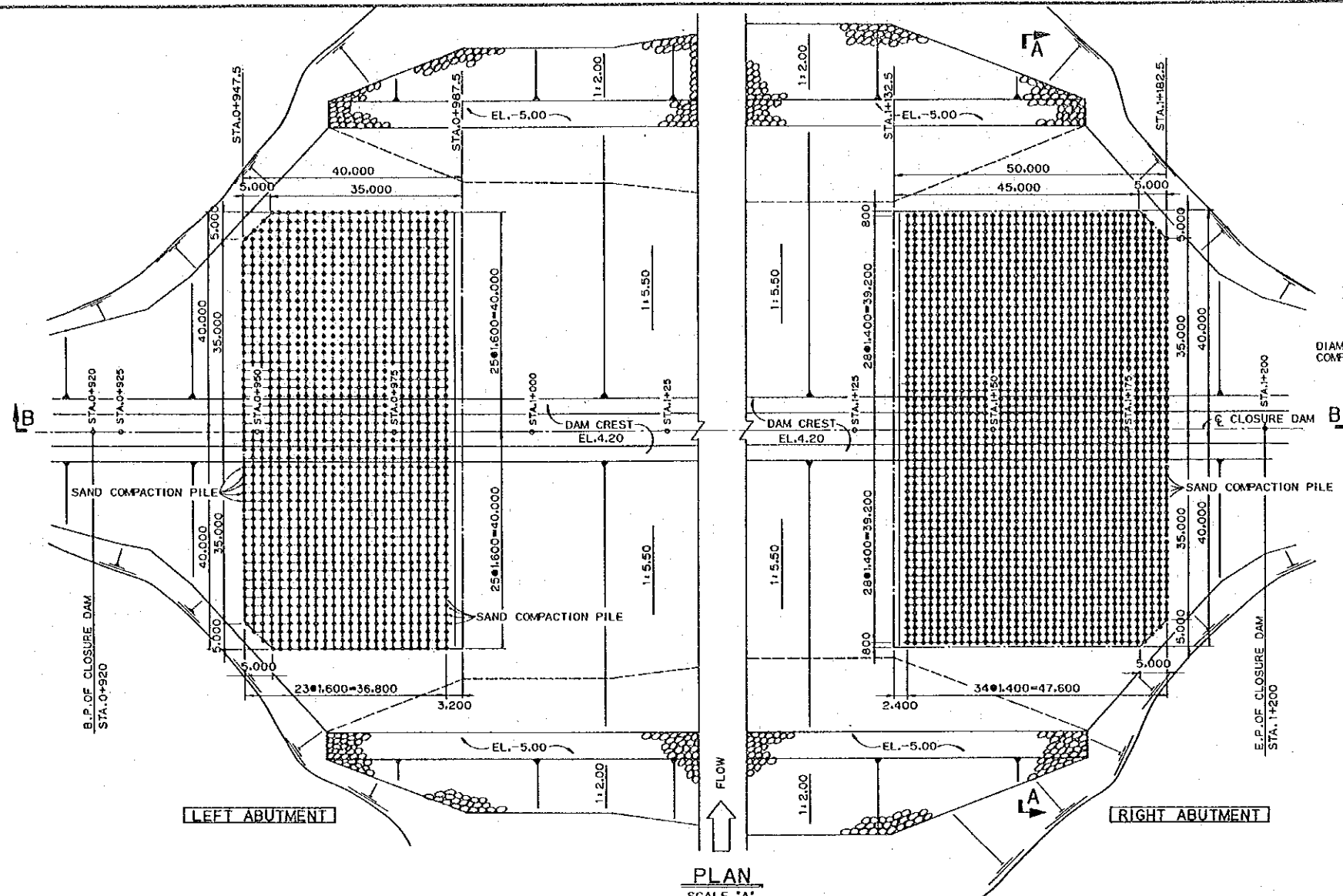
STA.1+150



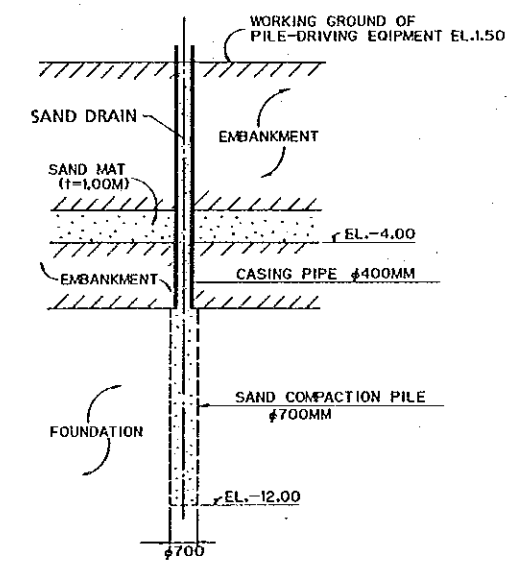
STA.1+125



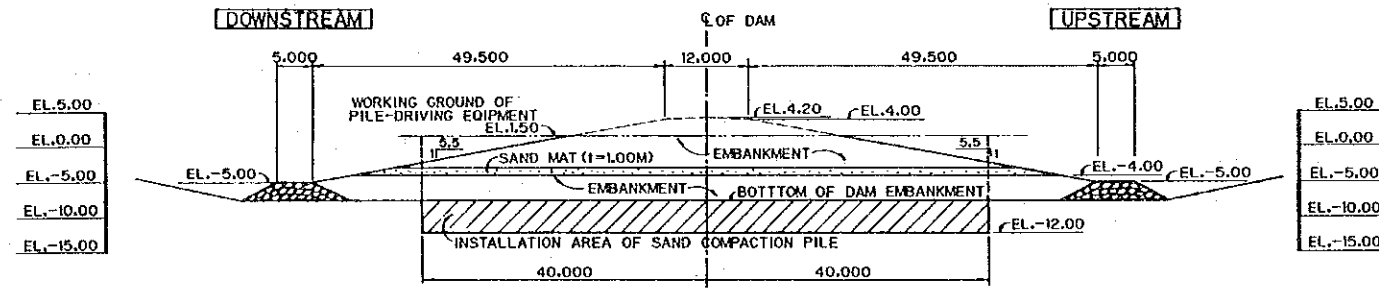
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
CLOSURE DAM SECTIONS (3/3)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. CDM - 1005	



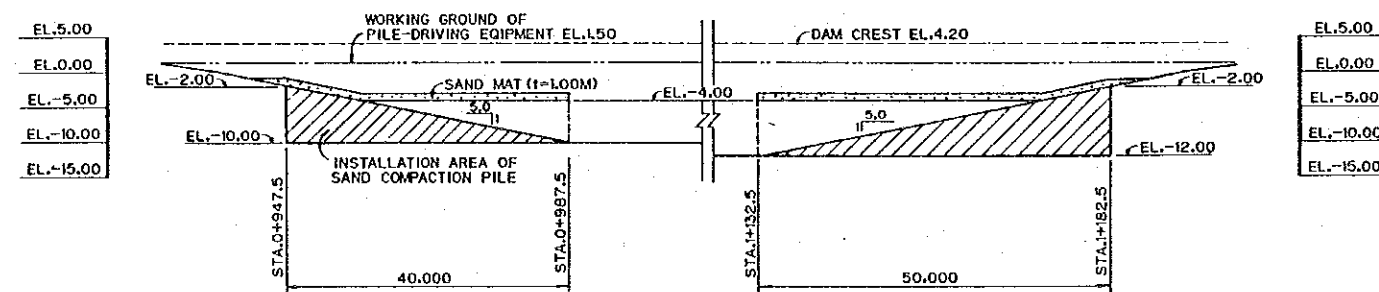
TYPICAL SPACING OF SAND COMPACTION PILE
SCALE 'B'



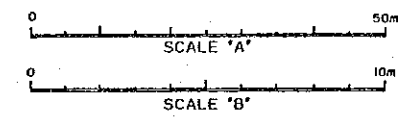
DETAIL OF SAND COMPACTION PILE
(NO SCALE)



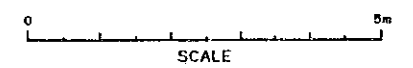
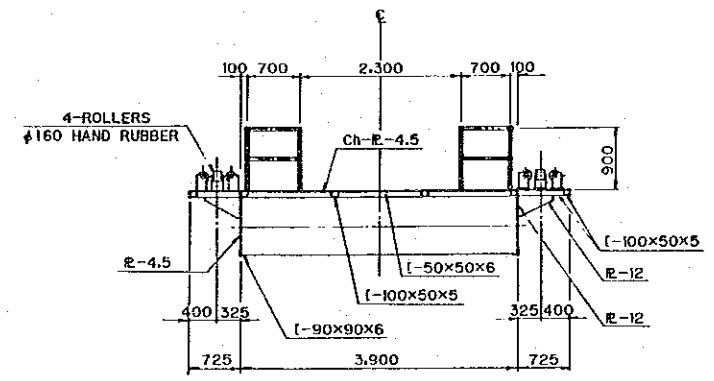
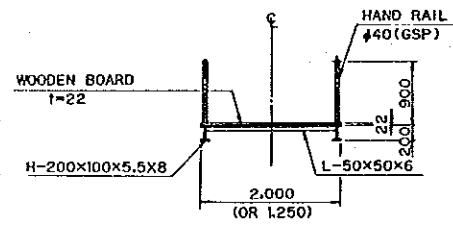
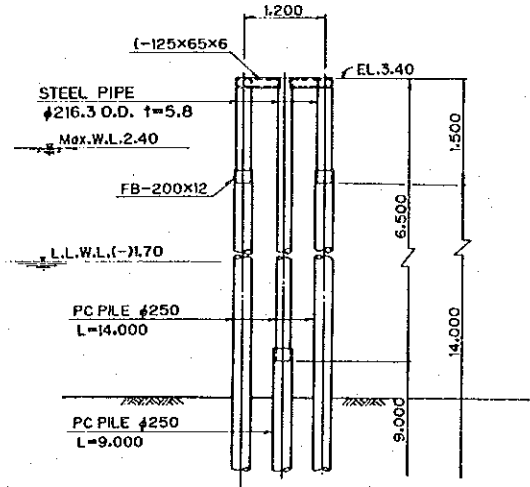
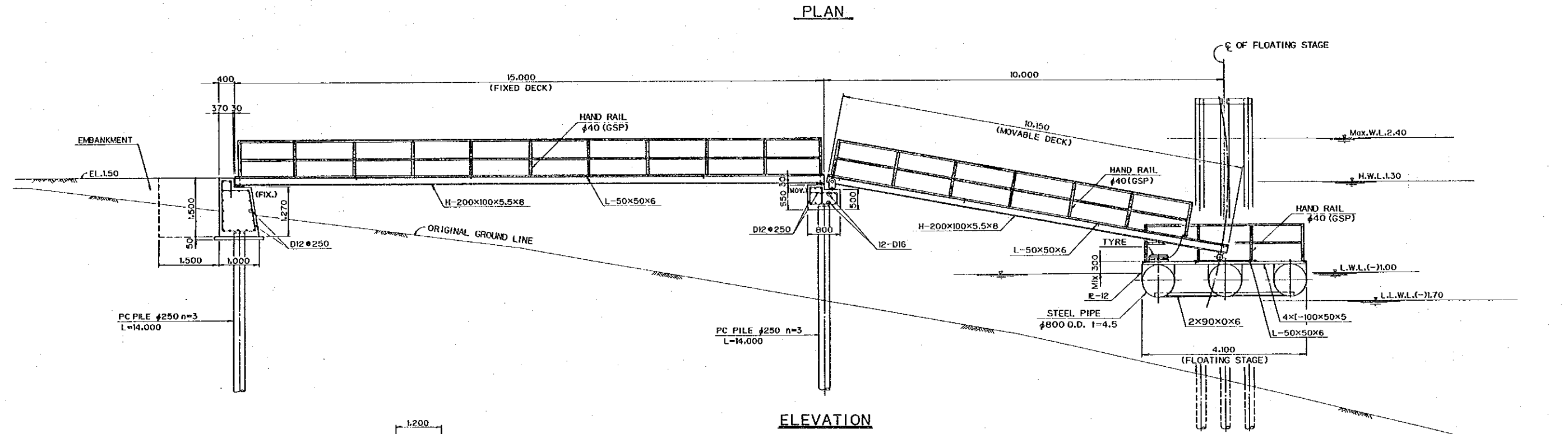
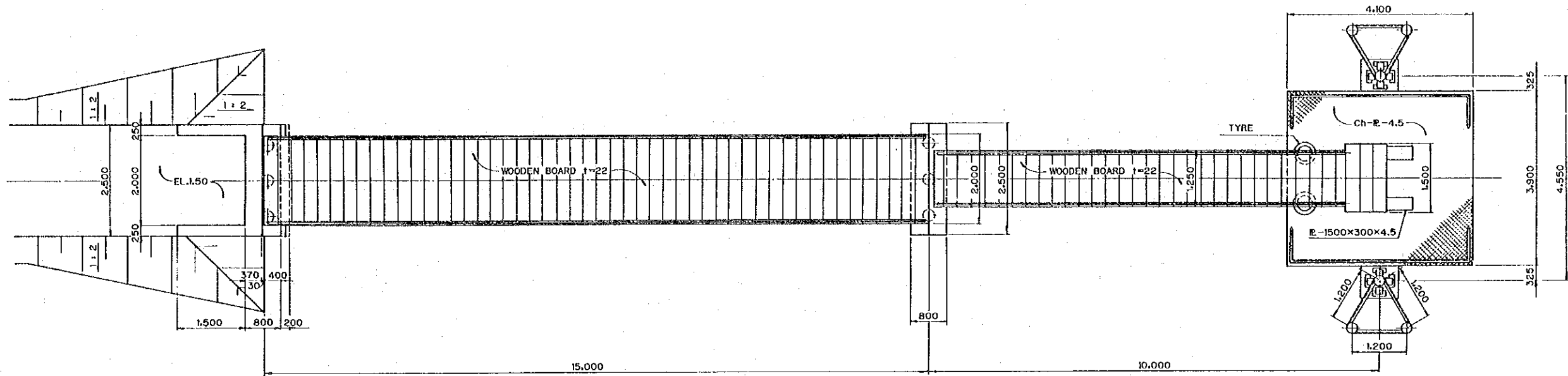
SECTION A-A
SCALE 'B'



SECTION B-B
SCALE 'B'

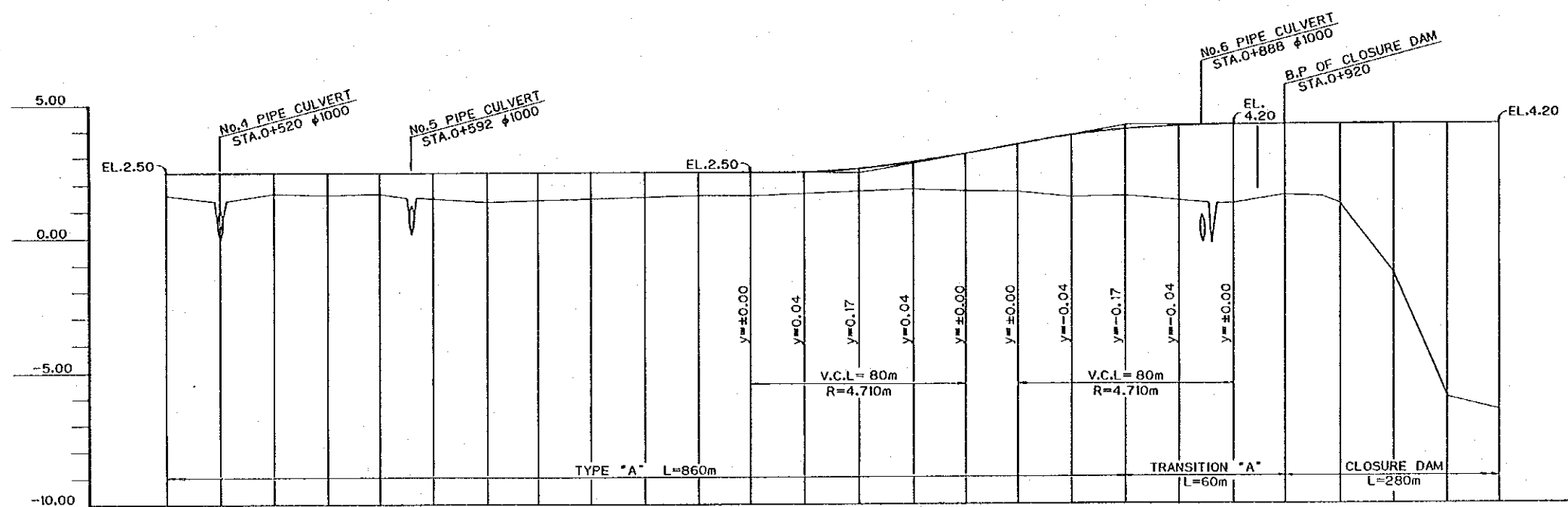
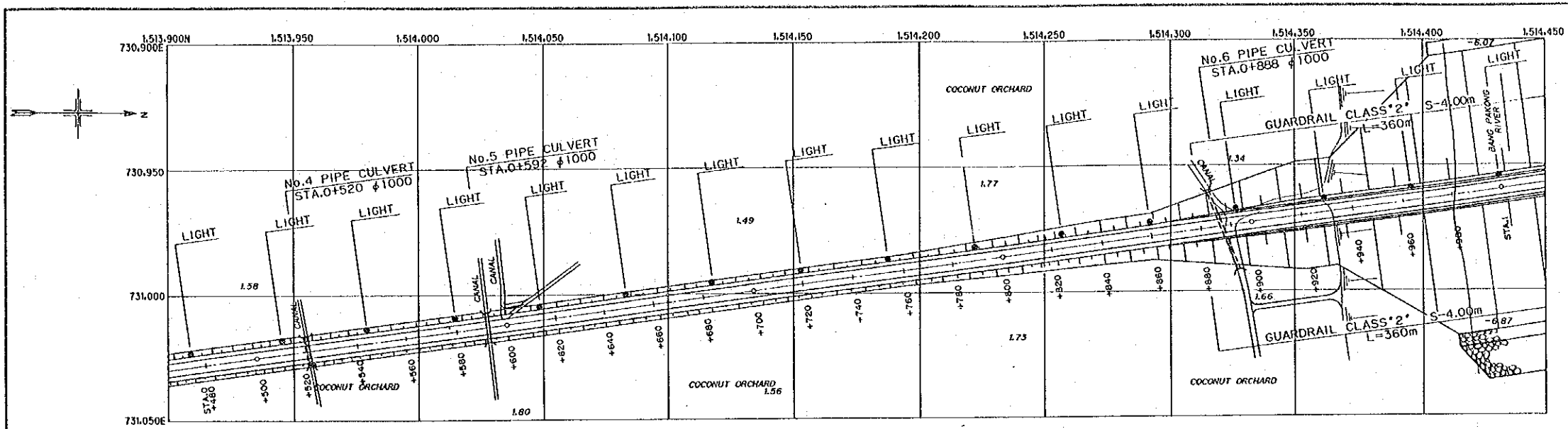


THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
CLOSURE DAM	
DETAIL OF SAND COMPACTION PILE	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. CDM - 1007	



THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
CLOSURE DAM JETTY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. CDM - 1008	

ROAD



LONGITUD. SLOPE	LEVEL L=660m																				LEVEL L=400m							
CREST ELEVATION	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.54	2.67	2.88	3.16	3.52	3.82	4.03	4.16	4.20	4.20	4.20	4.20	4.20	4.20	
GROUND ELEVATION	1.55	0.05	1.53	1.58	1.62	1.43	1.30	1.38	1.47	1.52	1.54	1.54	1.63	1.75	1.80	1.71	1.63	1.47	1.50	1.35	1.20	1.52	1.20	1.37	-6.07	-6.57		
ACCUM. DISTANCE	500.00	520.00	540.00	560.00	580.00	600.00	620.00	640.00	660.00	680.00	700.00	720.00	740.00	760.00	780.00	800.00	820.00	840.00	860.00	880.00	900.00	920.00	940.00	960.00	980.00	1000.00		
DISTANCE	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00		
STATION	STA.0+500	+520	+540	+560	+580	+600	+620	+640	+660	+680	+700	+720	+740	+760	+780	+800	+820	+840	+860	+880	+900	+920	+940	+960	+980	STA.1+000		
CURVE ARRANGE.	—																											
SUPER ELEVATION	— 3.50% — RIGHT — 3.50% — 3.50% — 3.50% — 3.50% — 3.50% — 3.50% —																											

THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

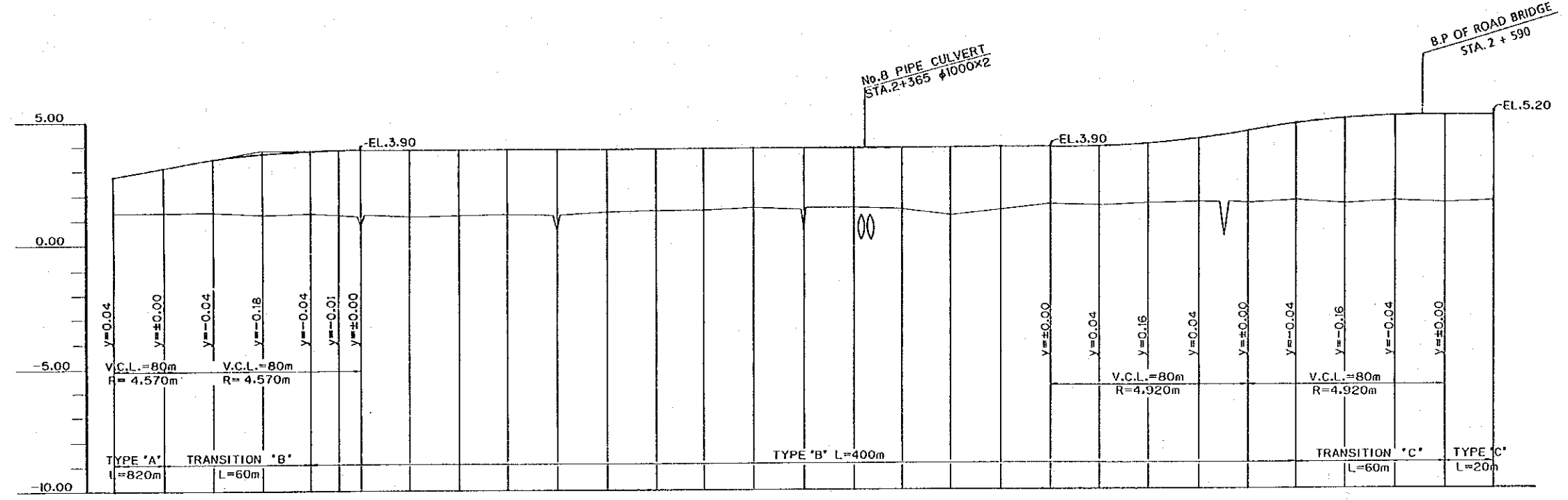
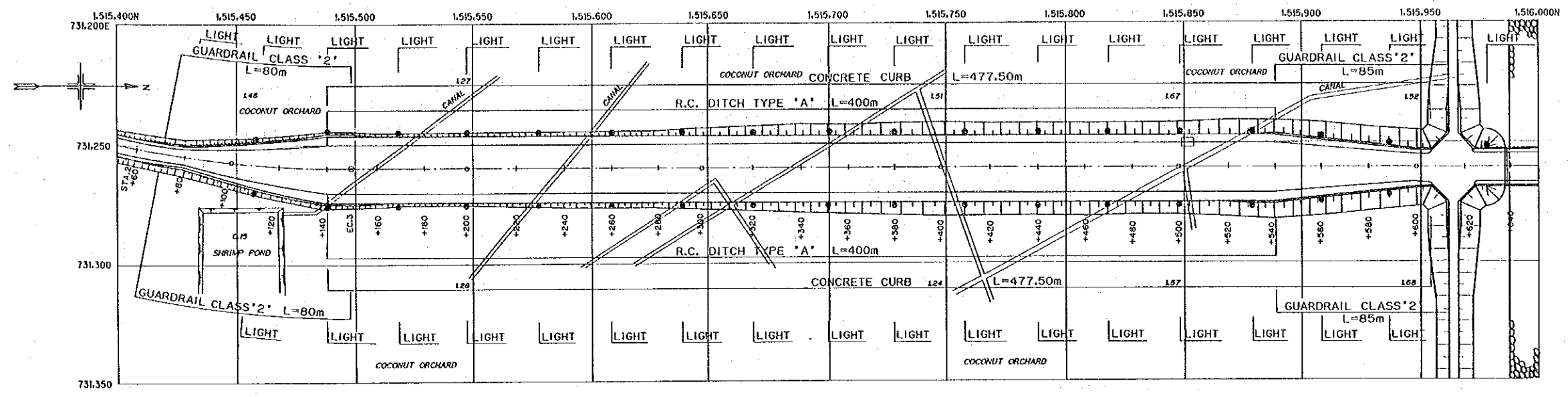
THE BANG PAKONG DIVERSION DAM PROJECT

ROAD
PLAN & PROFILE (2/6)

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

DRAWING NO. ROD-1002



LONGITUD. SLOPE	LEVEL L=360m																				LEVEL L=380m									
CREST ELEVATION	2.89	3.20	3.51	3.72	3.86	3.89	3.90	1.80	1.80	1.85	2.01	2.27	2.64	3.06	3.43	3.69	3.85	3.90	3.90	3.90	3.94	4.06	4.27	4.55	4.83	5.04	5.16	5.20	5.20	
GROUND ELEVATION	1.31	1.35	1.33	1.25	1.30	1.25	0.87	1.19	1.23	1.25	0.53	1.36	1.39	1.40	1.50	0.60	1.43	1.39	1.18	1.36	1.55	1.46	1.58	1.62	1.57	1.73	1.66	1.71	1.59	1.62
ACCUM. DISTANCE	2050.00	2080.00	2100.00	2120.00	2140.00	2150.66	2160.00	2180.00	2200.00	2220.00	2240.00	2260.00	2280.00	2300.00	2320.00	2340.00	2360.00	2380.00	2400.00	2420.00	2440.00	2460.00	2480.00	2500.00	2520.00	2540.00	2560.00	2580.00	2600.00	2620.00
DISTANCE	20.00	20.00	20.00	20.00	20.00	10.66	9.34	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	
STATION	STA. 2 +50	+80	+100	+120	+140	EC. 3	+160	+180	+200	+220	+240	+260	+280	+300	+320	+340	+360	+380	+400	+420	+440	+460	+480	+500	+520	+540	+560	+580	+600	+620
CURVE ARRANGE.	IP. 3 IA=33°10'54" R=500 TL=148.97 CL=289.56 SL=21.72																													
SUPER ELEVATION																														

THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

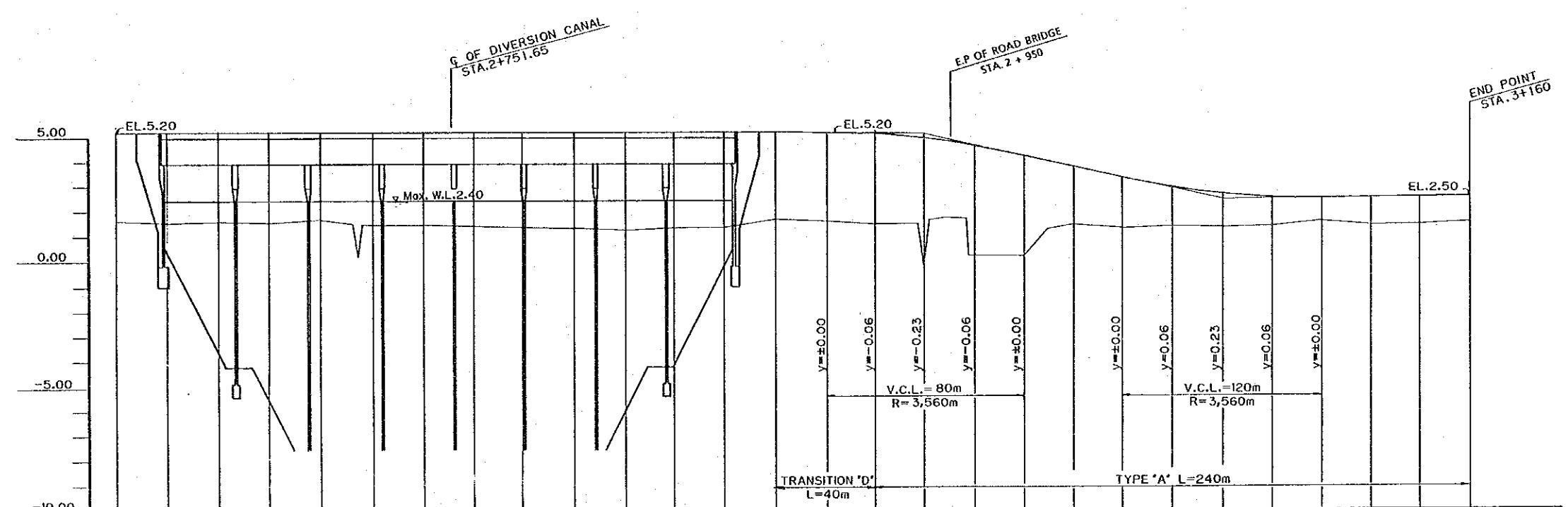
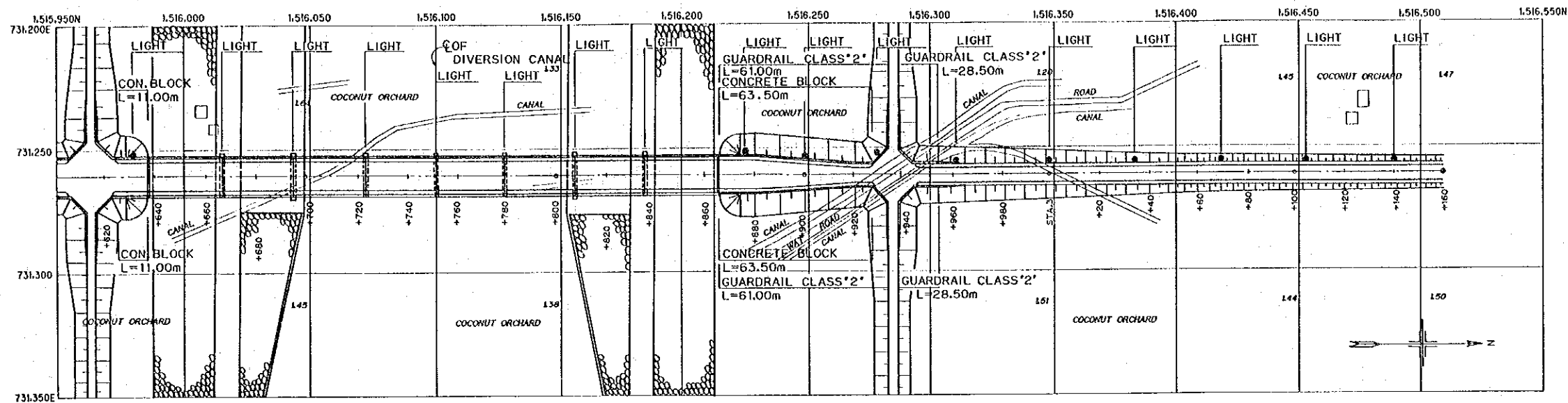
THE BANG PAKONG DIVERSION DAM PROJECT

ROAD
PLAN & PROFILE (5/6)

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

DRAWING NO. ROD-1005



LONGITUDI. SLOPE	LEVEL L=380m																				LEVEL L=100m												
CREST ELEVATION	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.14	4.97	4.69	4.30	3.85	3.40	3.01	2.73	2.56	2.50	2.50	2.50	2.50				
GROUND ELEVATION	1.62	1.55	1.57	1.58	1.65	1.46	1.43	1.45	1.37	1.32	1.25	1.31	1.34	1.64	1.63	1.48	-0.15	0.20	0.15	1.43	1.28	1.33	1.30	1.33	1.54	1.28	1.38	1.45					
ACCLM. DISTANCE	2620.00	2640.00	2660.00	2680.00	2700.00	2720.00	2740.00	2760.00	2780.00	2800.00	2820.00	2840.00	2860.00	2880.00	2900.00	2920.00	2940.00	2960.00	2980.00	3000.00	3020.00	3040.00	3060.00	3080.00	3100.00	3120.00	3140.00	3160.00					
DISTANCE	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00					
STATION	STA. 2+620	+640	+660	+680	+700	+720	+740	+760	+780	+800	+820	+840	+860	+880	+900	+920	+940	+960	+980	STA. 3+000	+420	+440	+460	+480	+100	+120	+140	+160					
CURVE ARRANGE.																																	
SUPER ELEVATION	-3.50%																																

THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

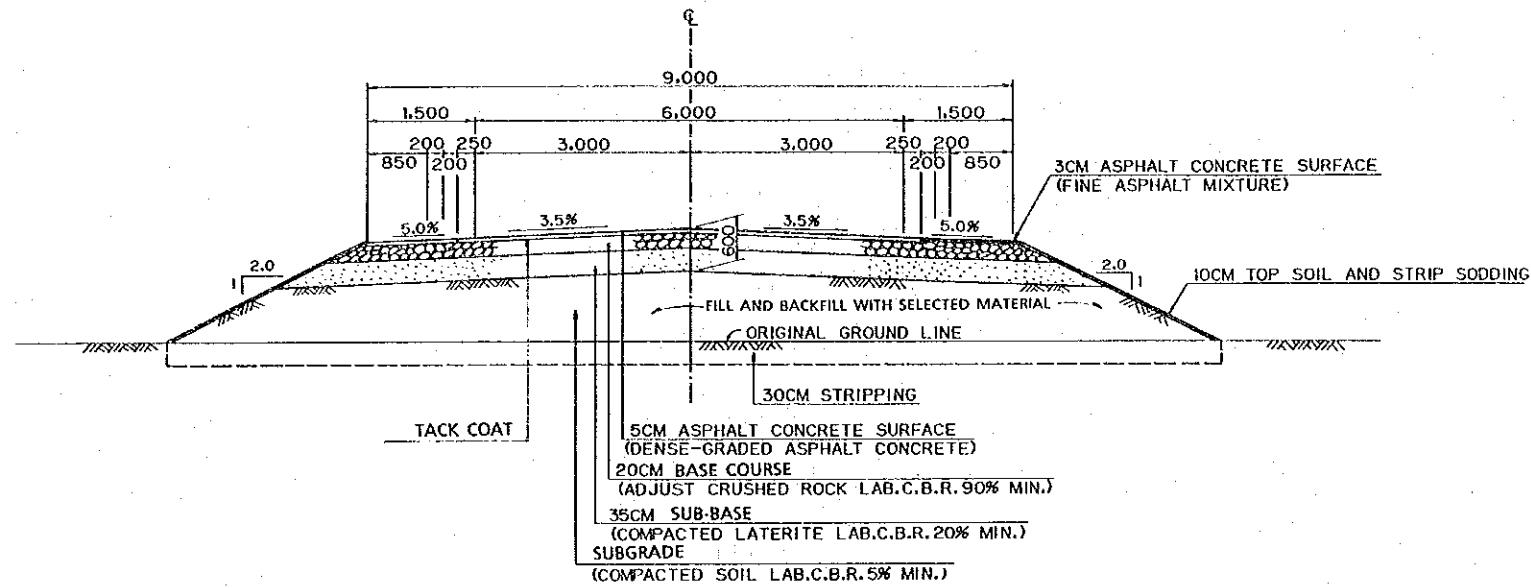
THE BANG PAKONG DIVERSION DAM PROJECT

**ROAD
PLAN & PROFILE (6/6)**

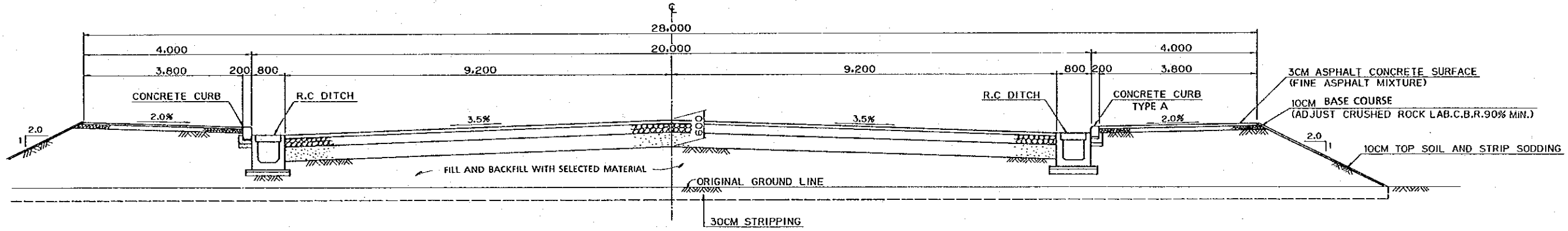
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

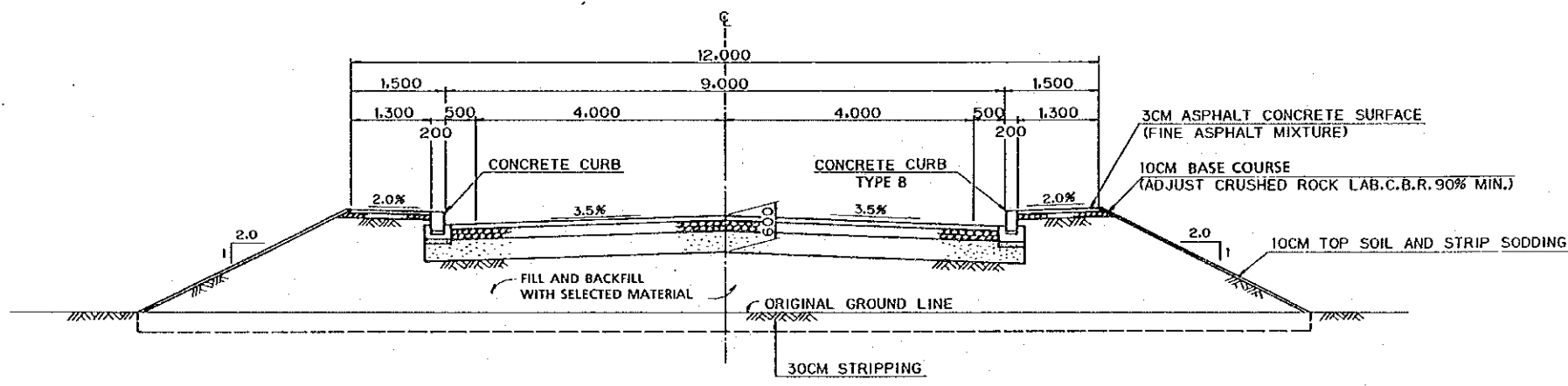
DRAWING NO. ROD - 1006



TYPE 'A'



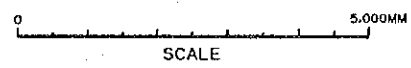
TYPE 'B'



TYPE 'C'

DESIGN CONDITIONS

CLASS OF ROAD		CLASS 4	
DESIGN SPEED		60 TO 80km/hr	
DESIGN C.B.R.		3%	
PAVEMENT	UNIT	TA	H
REQUIRED THICKNESS	C.M	19	48
DESIGN THICKNESS	"	19	60
ASPHALT SURFACE	FINE ASPHALT	"	5.0 5
BASE COURSE	ADJUST CRUSHED ROCK	"	7.0 20
SUB-BASE	COMPACTED LATERITE	"	7.0 35



THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

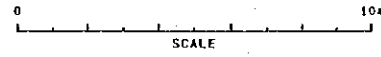
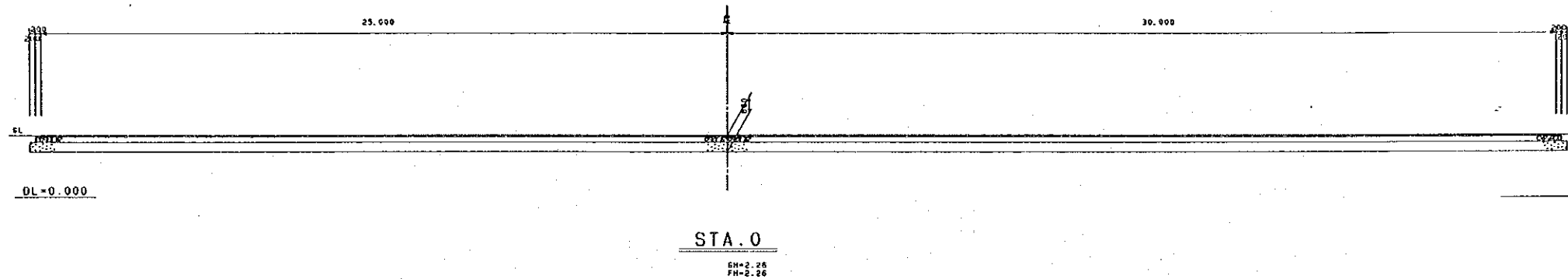
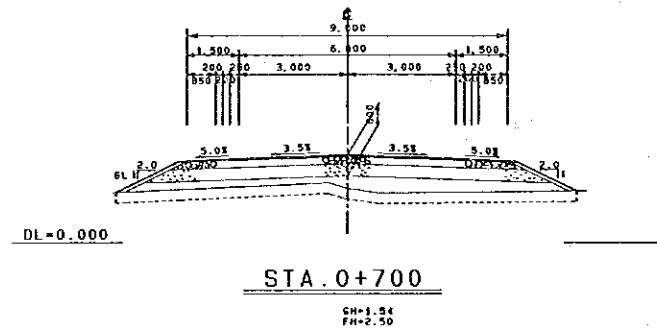
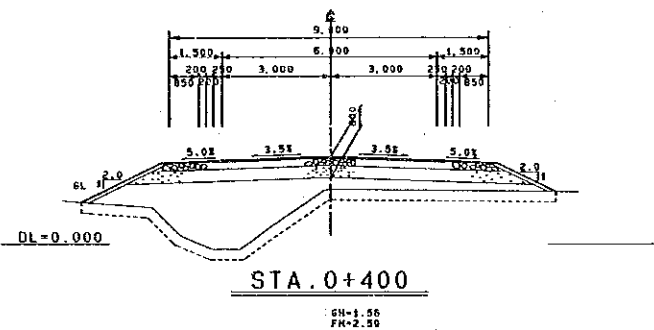
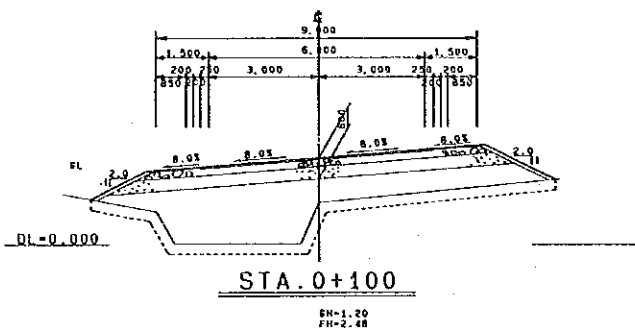
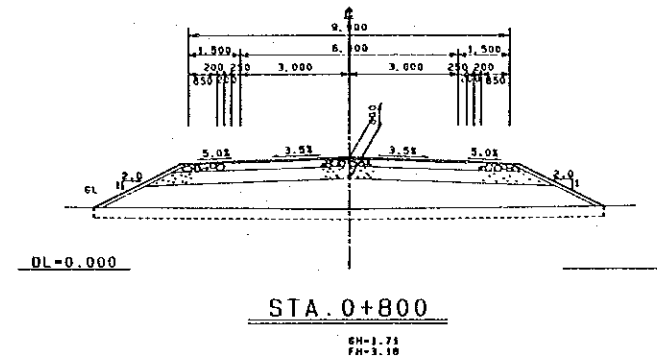
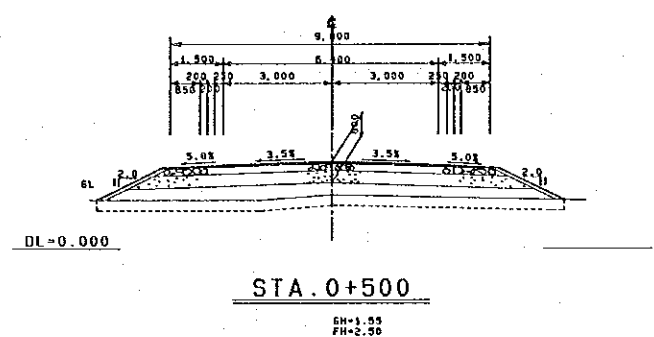
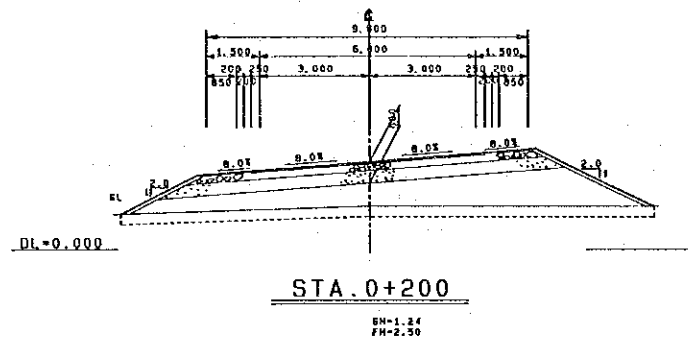
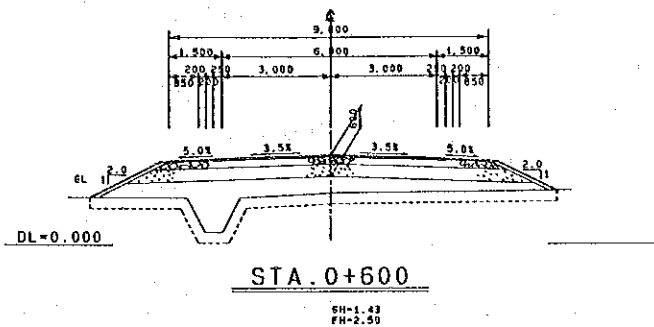
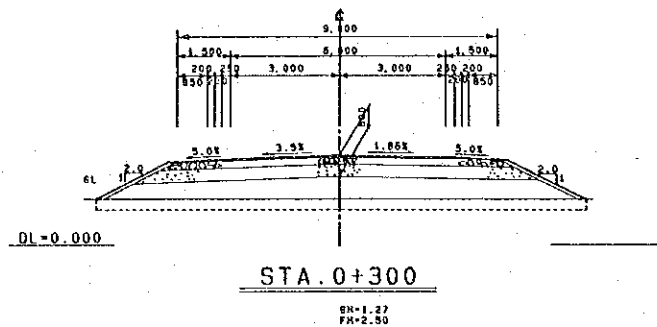
THE BANG PAKONG DIVERSION DAM PROJECT

ROAD
TYPICAL SECTION

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

DRAWING NO. ROD - 1007

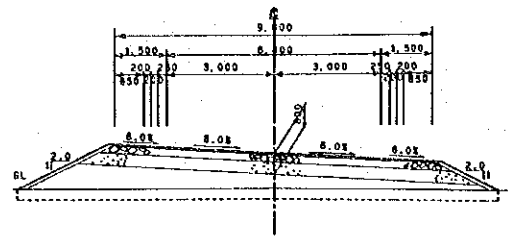


LEGEND

GH..... ORIGINAL GROUND ELEVATION AT CENTER
FH..... PLANNING ELEVATION AT CENTER
DL..... DATUM LINE
C..... CENTER OF ROAD
GL..... GROUND LINE

THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD CROSS SECTIONS (1/4)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. ROD-1008	

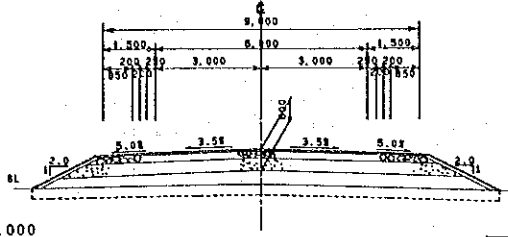
DL=0.000



STA. 1+400

SH=1.51
FH=2.50

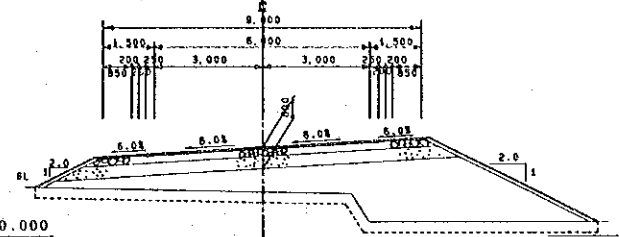
DL=0.000



STA. 1+600

SH=1.51
FH=2.50

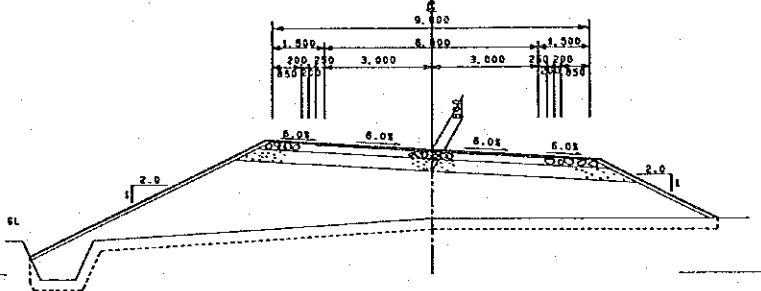
DL=0.000



STA. 1+900

SH=1.25
FH=2.50

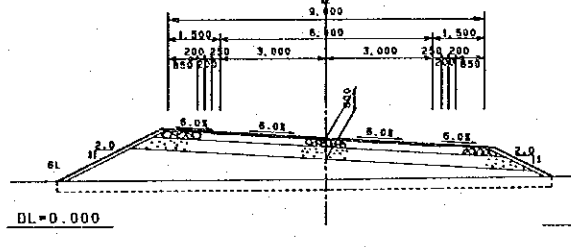
DL=0.000



STA. 1+300

SH=1.37
FH=3.52

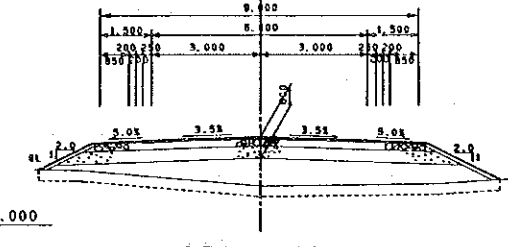
DL=0.000



STA. 1+500

SH=1.33
FH=2.50

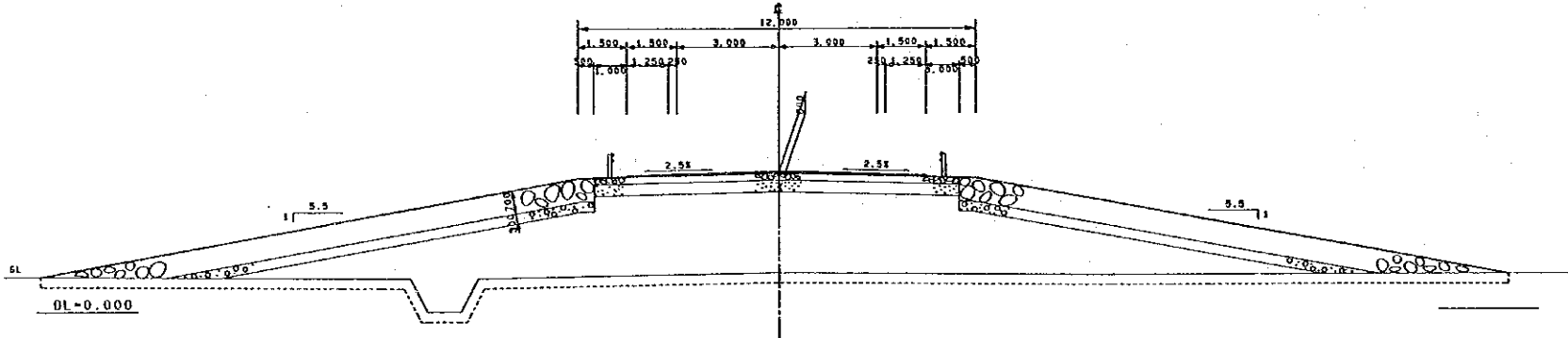
DL=0.000



STA. 1+800

SH=1.11
FH=2.50

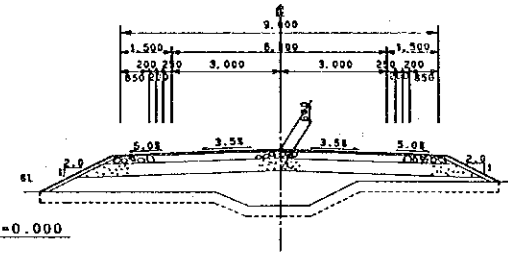
DL=0.000



STA. 1+200

SH=1.17
FH=4.20

DL=0.000

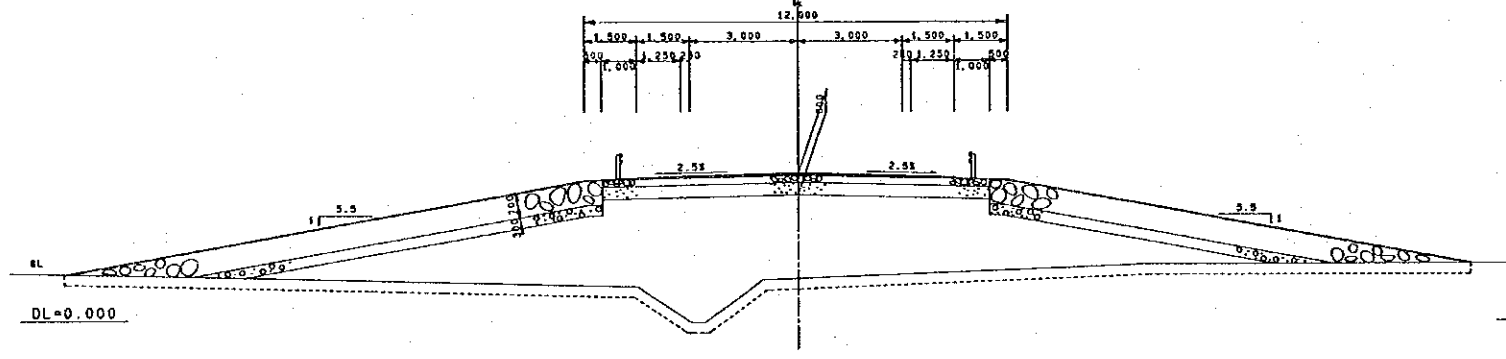


STA. 1+700

SH=0.91
FH=2.50



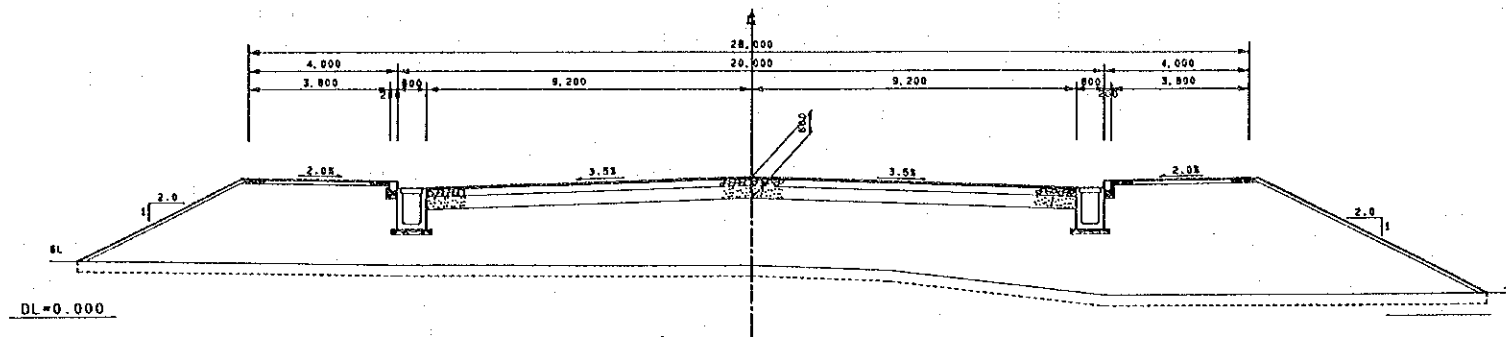
DL=0.000



STA. 0+920

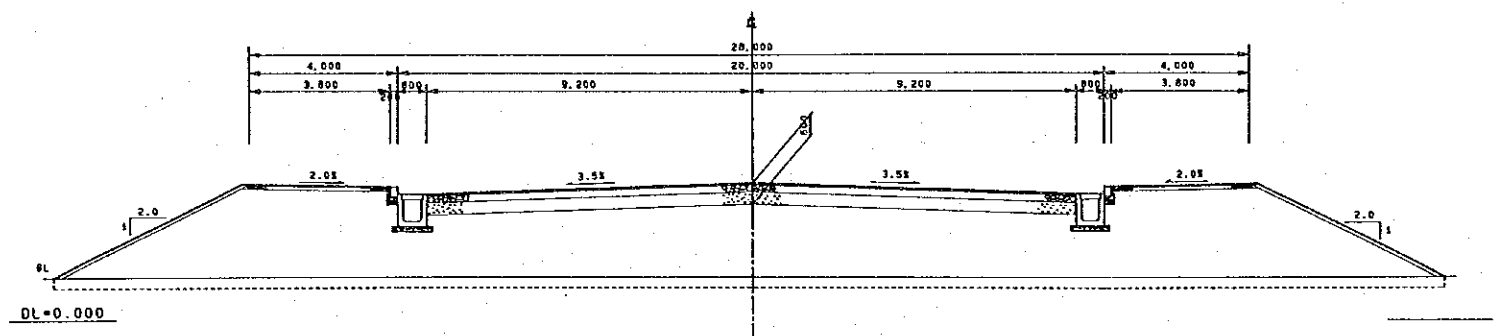
SH=1.52
FH=4.20

THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD CROSS SECTIONS(2/4)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. ROD-1009	



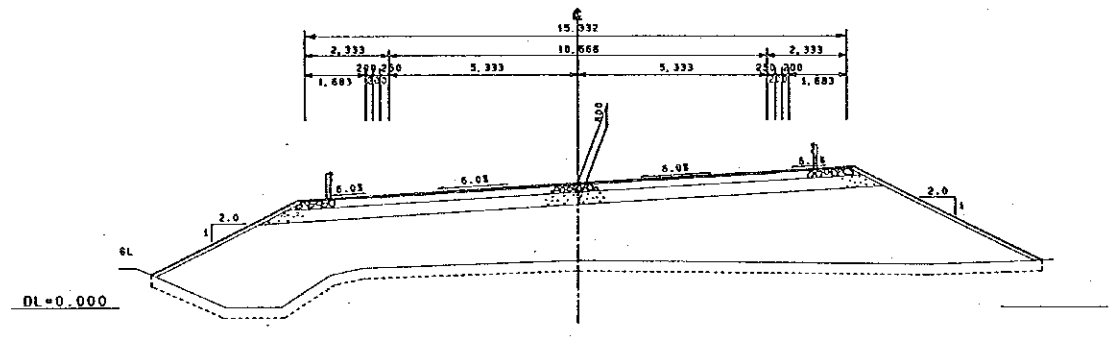
STA. 2+300

SH=1.40
FH=3.90



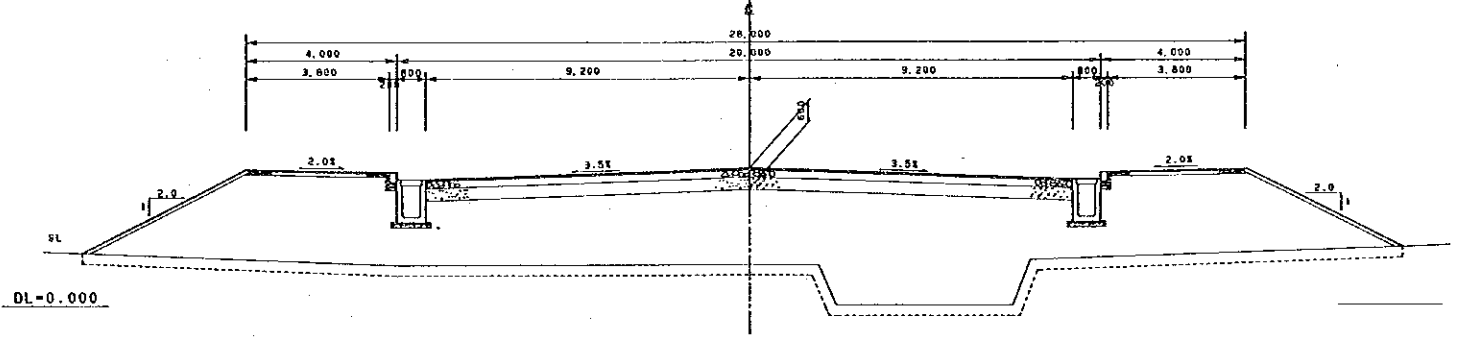
STA. 2+200

SH=1.23
FH=3.90



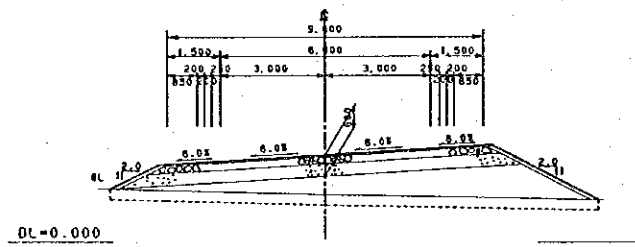
STA. 2+100

SH=1.33
FH=3.51



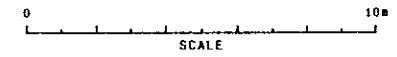
STA. 2+400

SH=1.18
FH=3.90

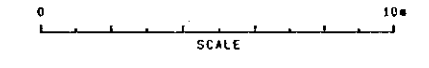
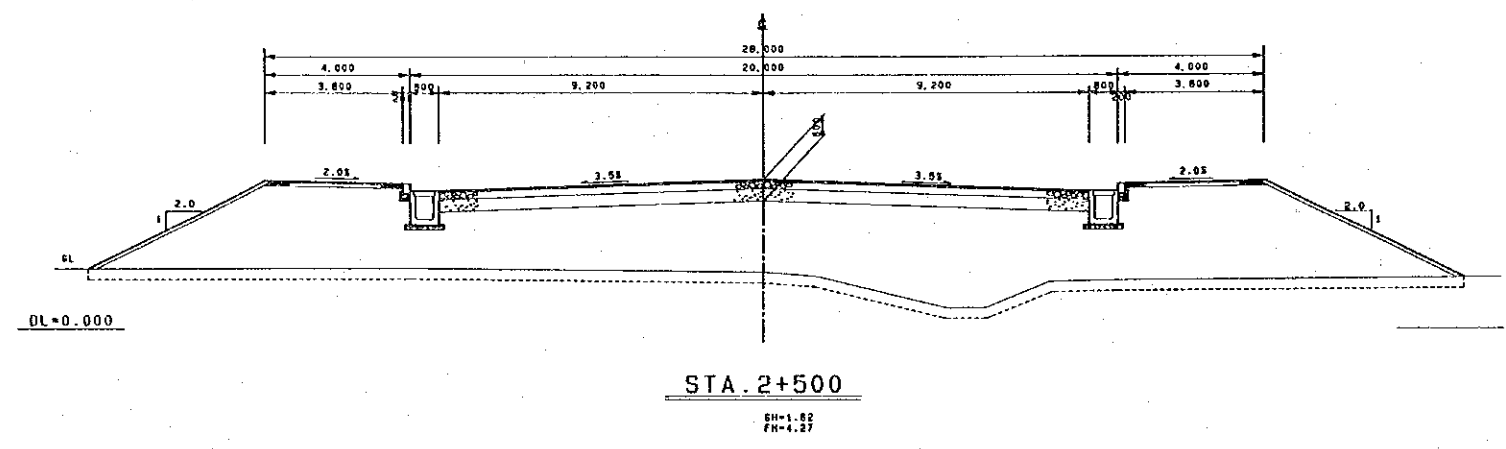
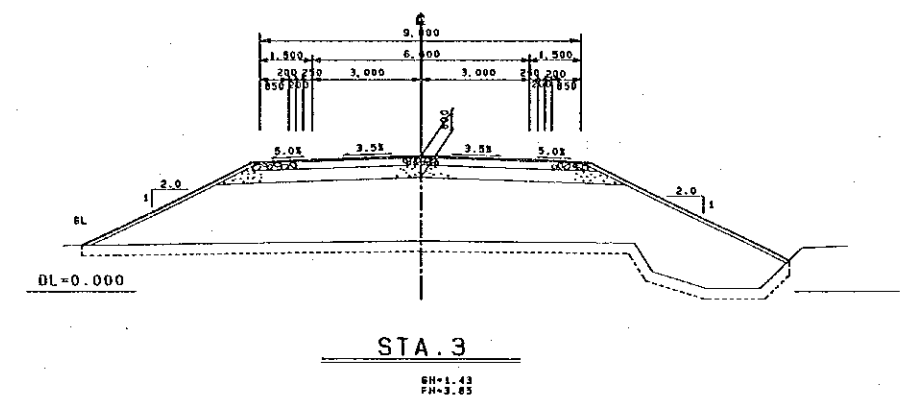
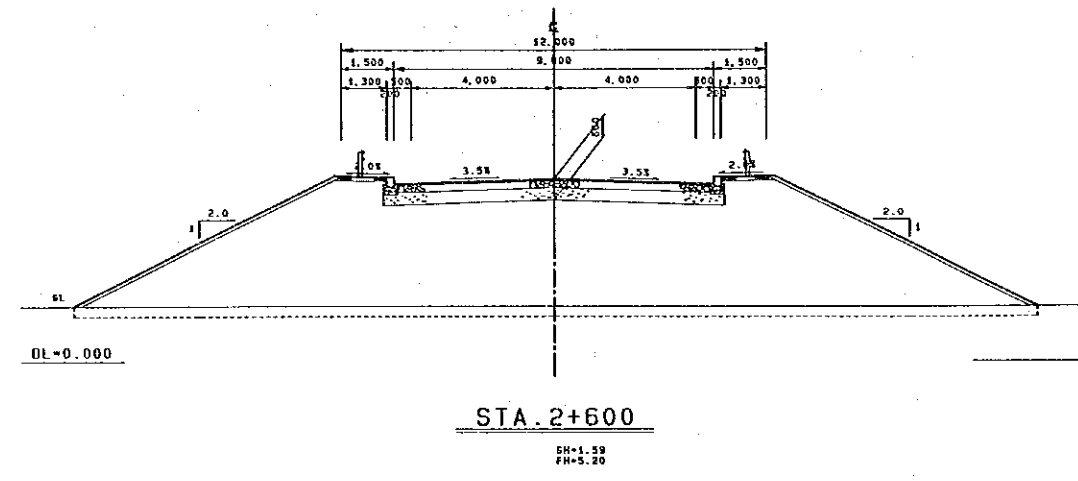
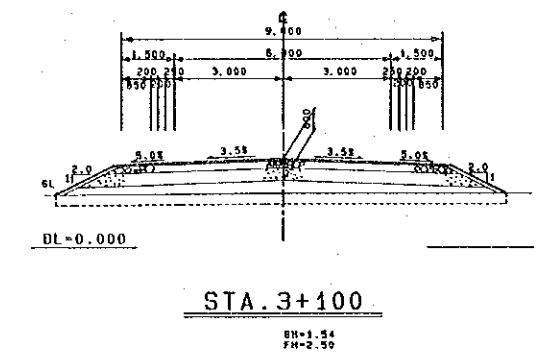
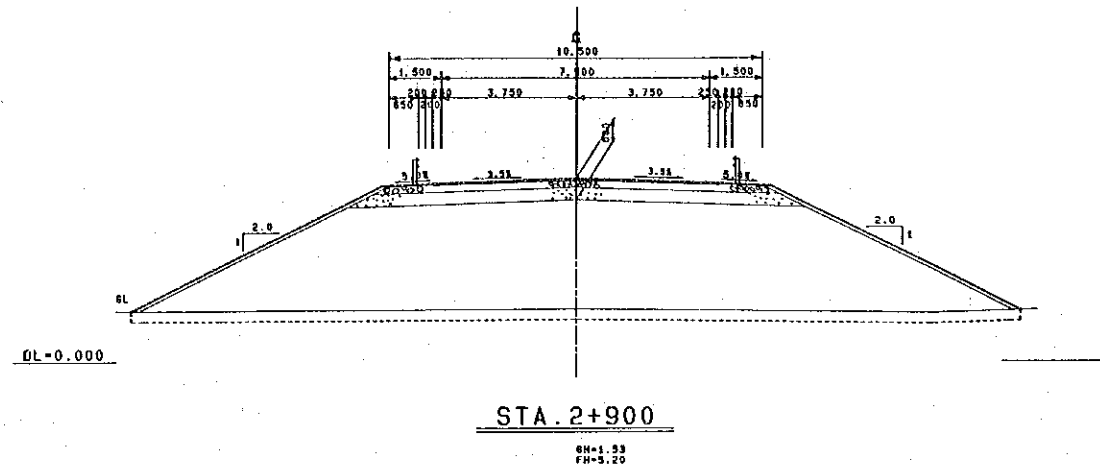


STA. 2

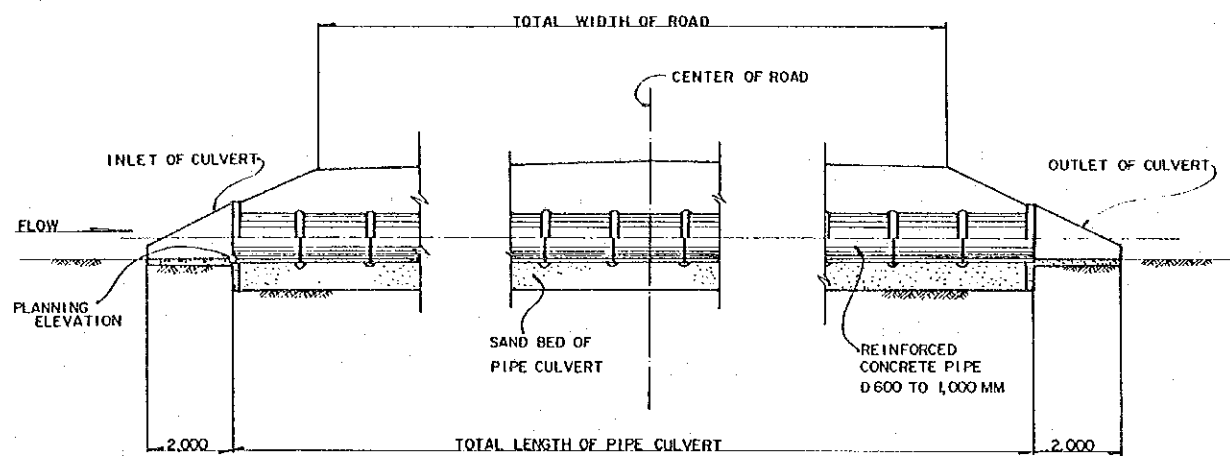
SH=1.39
FH=2.50



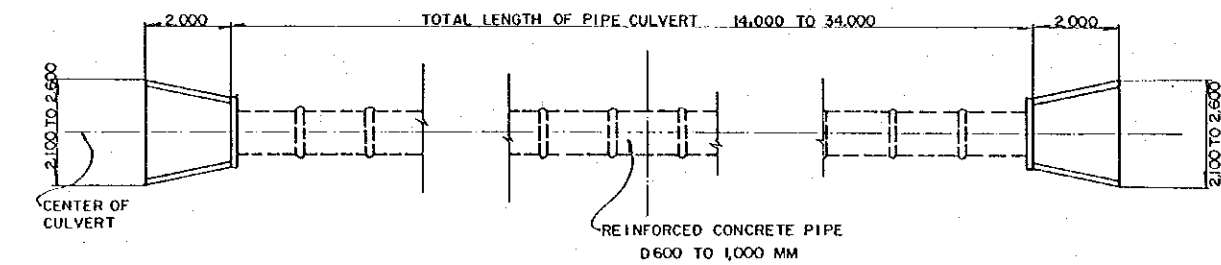
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD CROSS SECTIONS (3/4)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. ROD-1010	



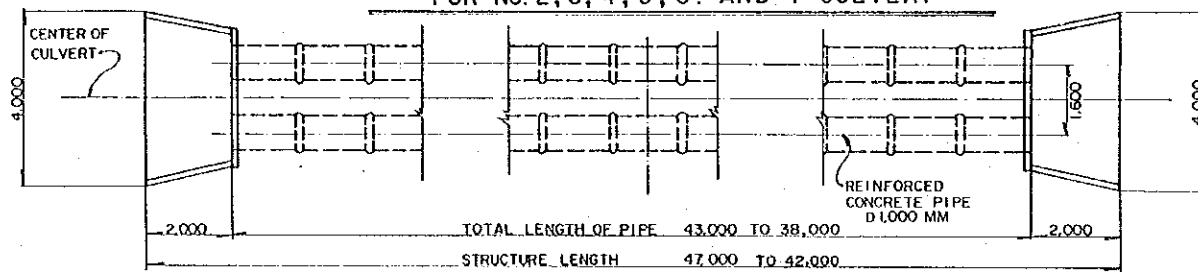
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD CROSS SECTIONS (4/4)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. ROD-1011	



PROFILE OF PIPE CULVERT



PLAN OF PIPE CULVERT (SINGLE RANGE)
FOR NO. 2, 3, 4, 5, 6, AND 7 CULVERT



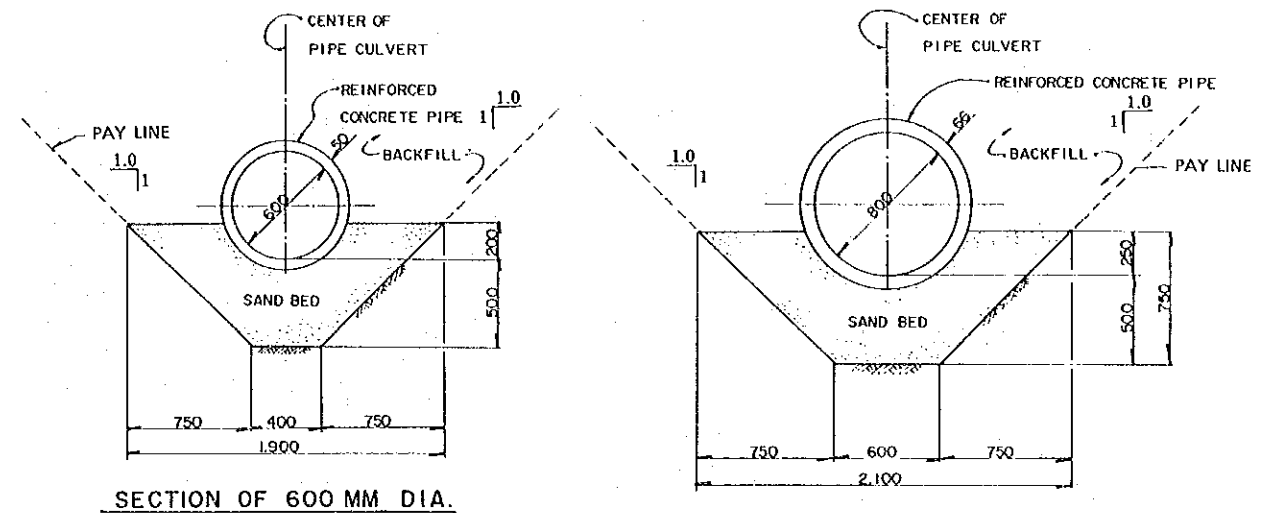
PLAN OF NO. 1, 8 PIPE CULVERT

INSTALLATION LIST OF PIPE CULVERT

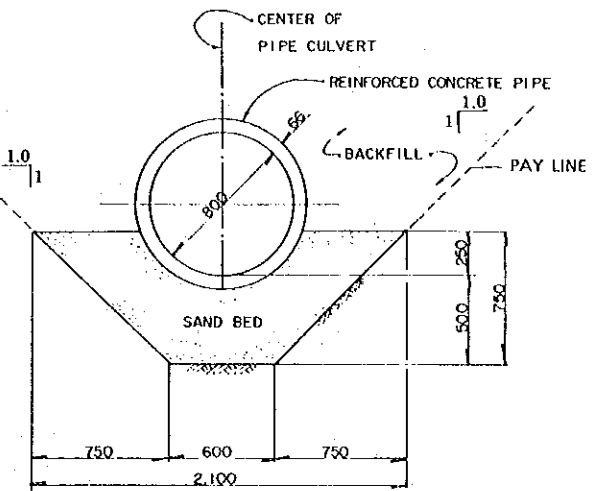
CULVERT NUMBER	STATION	DIMENSION OF CULVERT	PLANNING ELEVATION
NO. 1	STA. 0 + 10	D. 1,000 MM X 43 M X 2 PIPES	EL. (+) 0.19 M
NO. 2	STA. 0 + 108	D. 800 MM X 22 M X 1 PIPE	EL. (+) 0.03 M
NO. 3	STA. 0 + 140	D. 600 MM X 27 M X 1 PIPE	EL. (+) 0.25 M
NO. 4	STA. 0 + 520	D. 1,000 MM X 14 M X 1 PIPE	EL. (+) 0.05 M
NO. 5	STA. 0 + 592	D. 1,000 MM X 14 M X 1 PIPE	EL. (+) 0.08 M
NO. 6	STA. 0 + 888	D. 1,000 MM X 34 M X 1 PIPE	EL. (+) 0.04 M
NO. 7	STA. 1 + 441	D. 1,000 MM X 14 M X 1 PIPE	EL. (+) 0.01 M
NO. 8	STA. 2 + 365	D. 1,000 MM X 38 M X 2 PIPES	EL. (+) 0.20 M

D INSIDE DIAMETER OF PIPE.

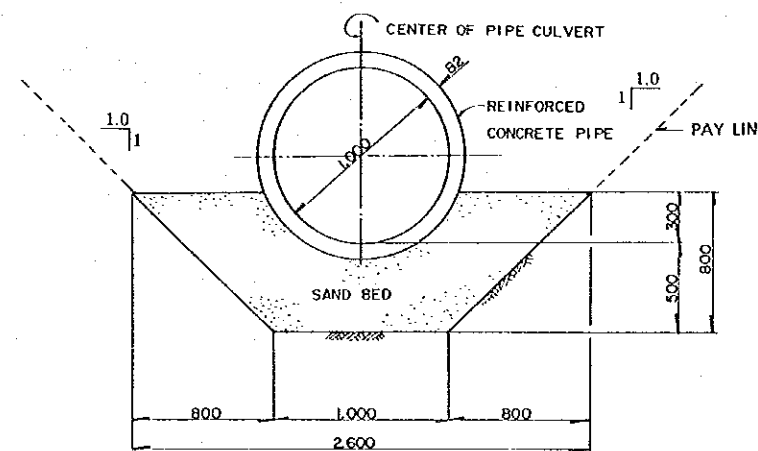
PLANNING ELEVATION SHALL BE INSTRUCTED BY THE EMPLOYER
IN FINAL AT THE SITE.



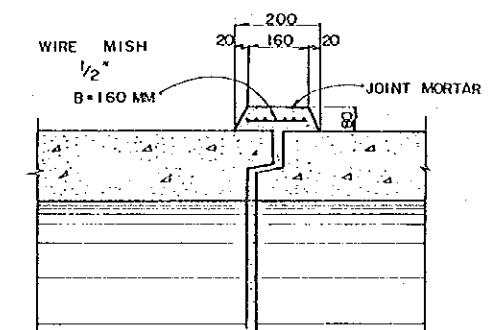
SECTION OF 600 MM DIA.



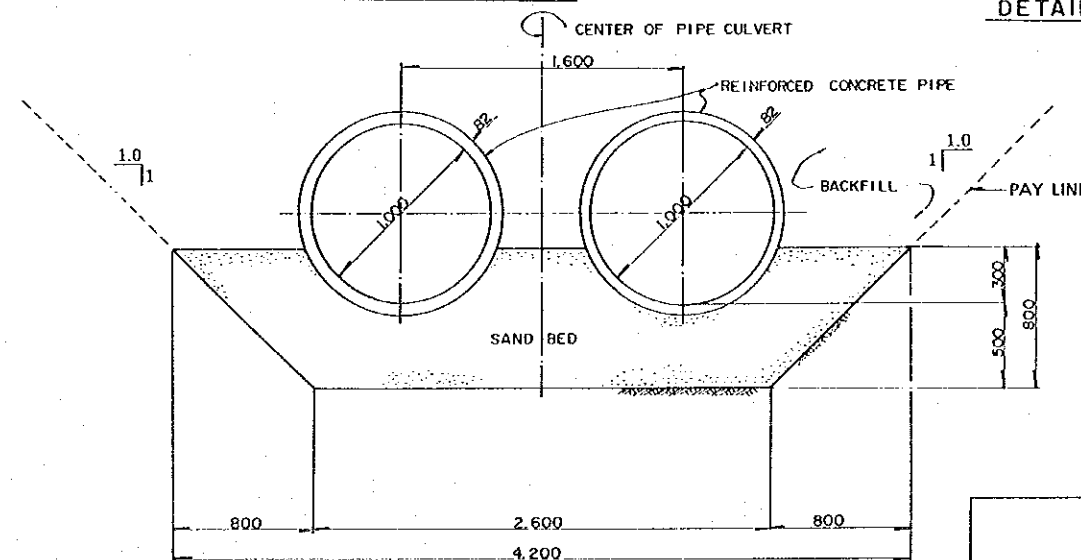
SECTION OF 800 MM DIA.



SECTION OF 1,000 MM DIA.

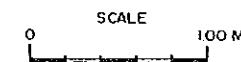


DETAIL OF PIPE JOINT

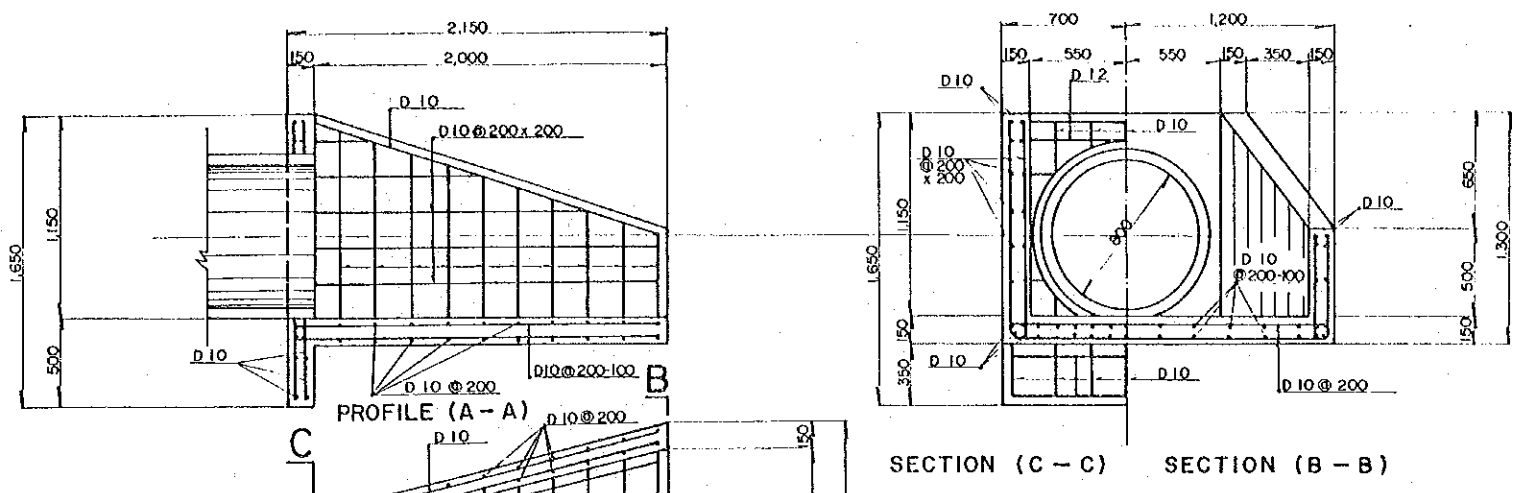
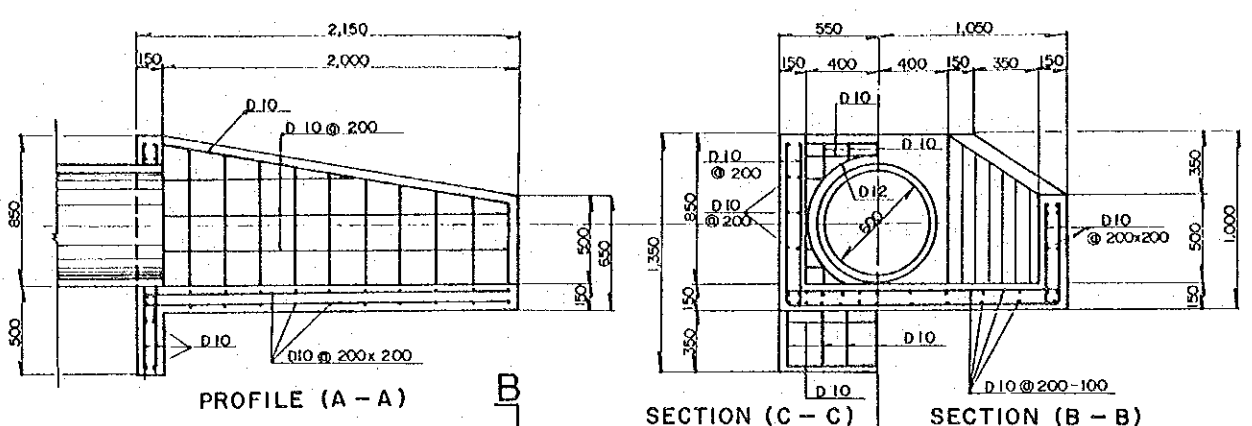


SECTION OF 1,000 MM DIA. x 2 PIPES

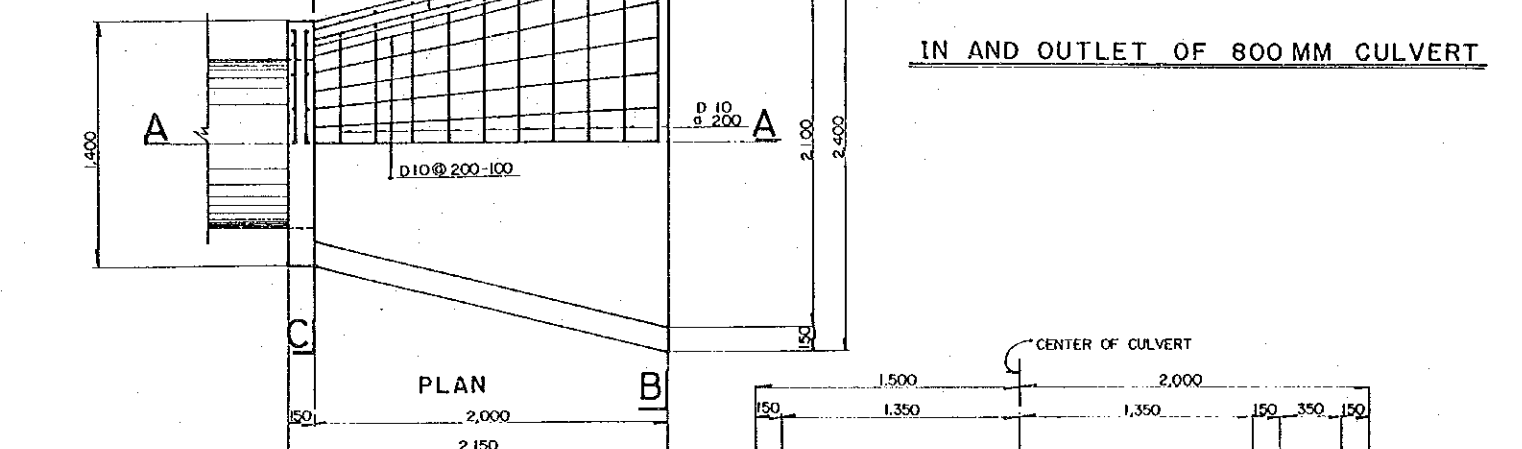
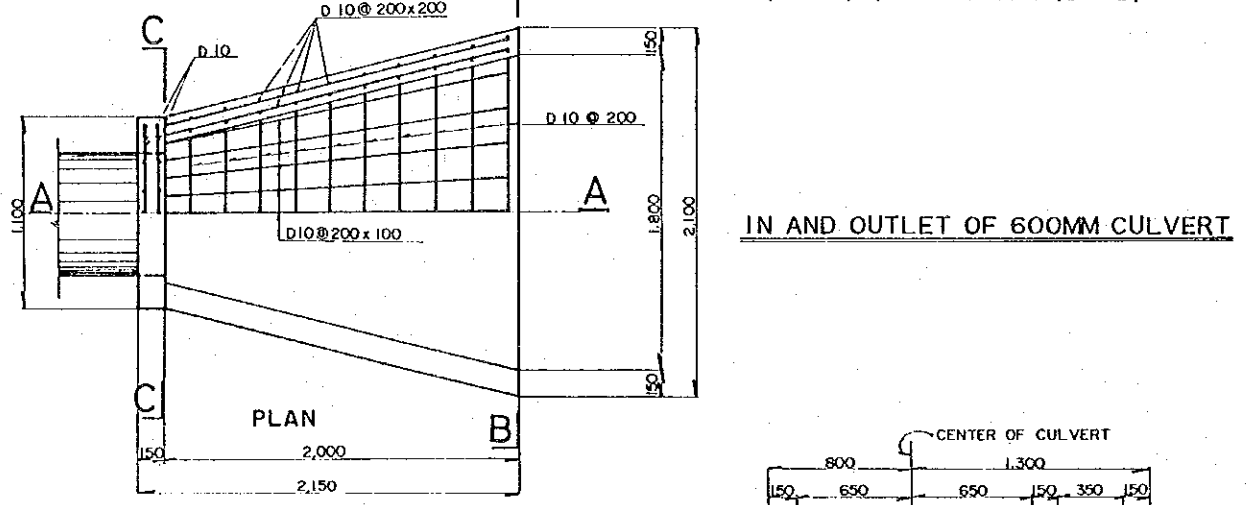
SECTION OF PIPE CULVERT AT SAND BED PORTION



THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD PIPE CULVERT (1/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. ROD-1012	

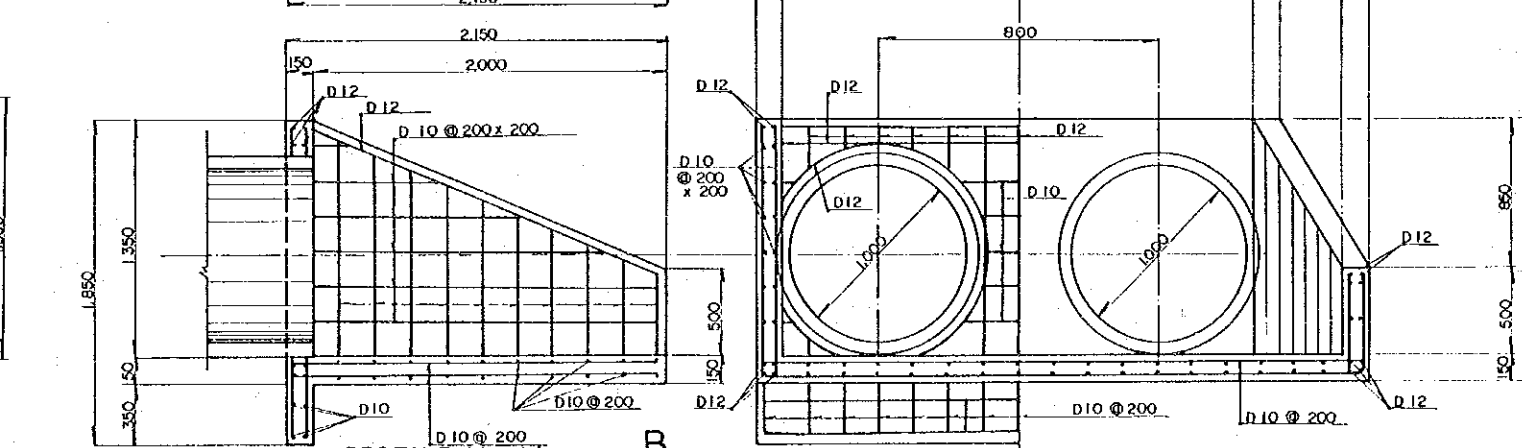
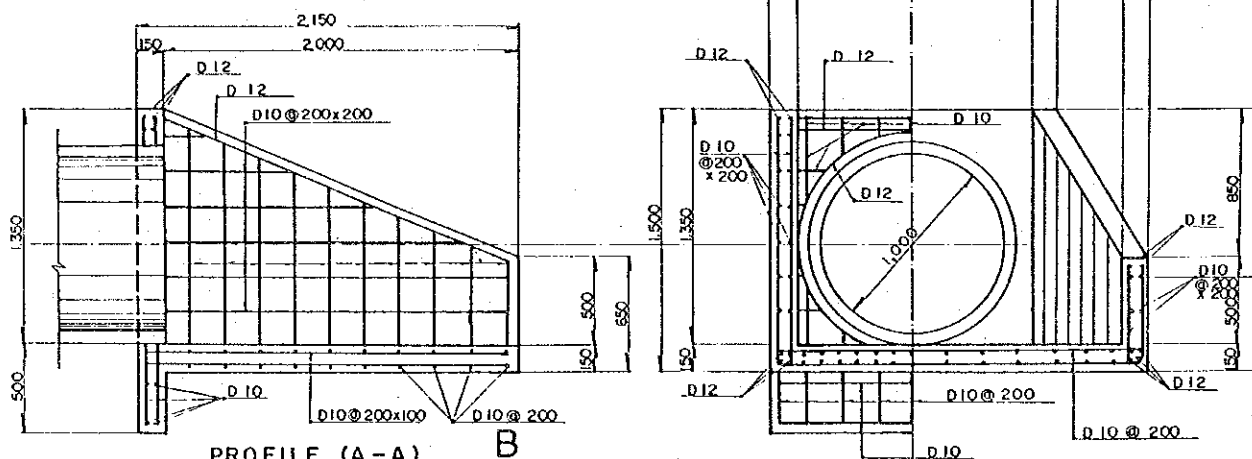


IN AND OUTLET OF 800MM CULVERT



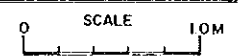
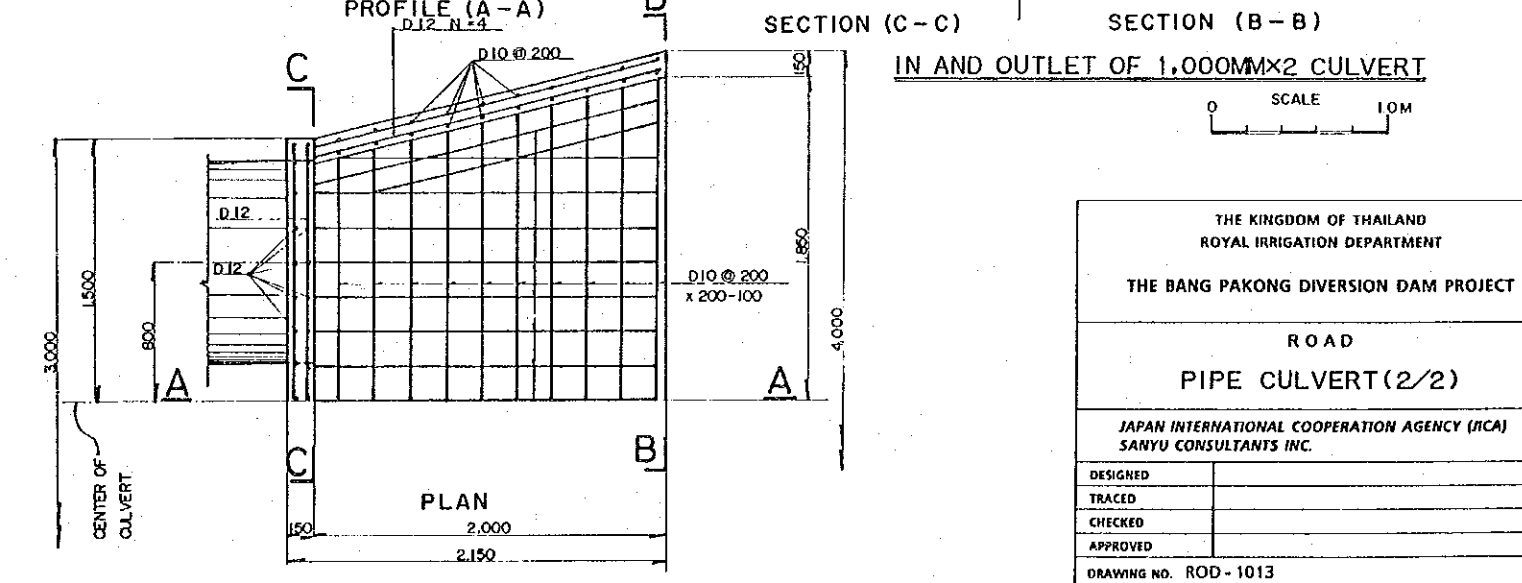
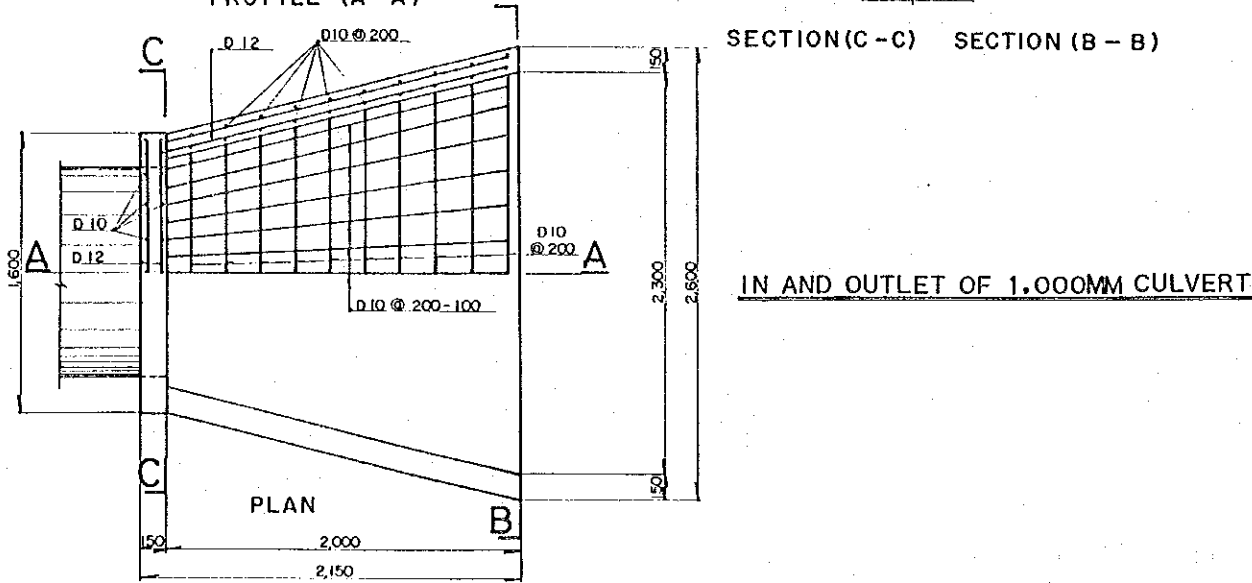
IN AND OUTLET OF 600MM CULVERT

IN AND OUTLET OF 1,000MMx2 CULVERT

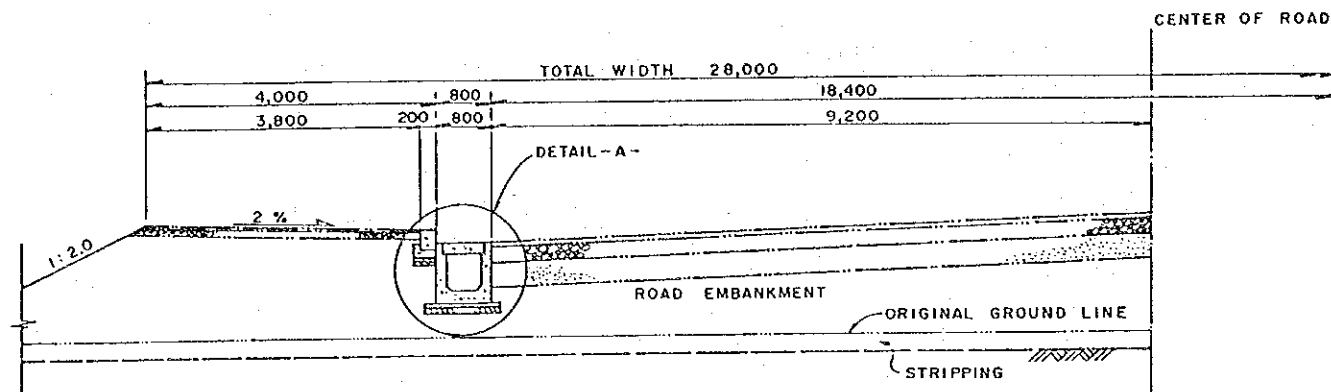


IN AND OUTLET OF 1,000MM CULVERT

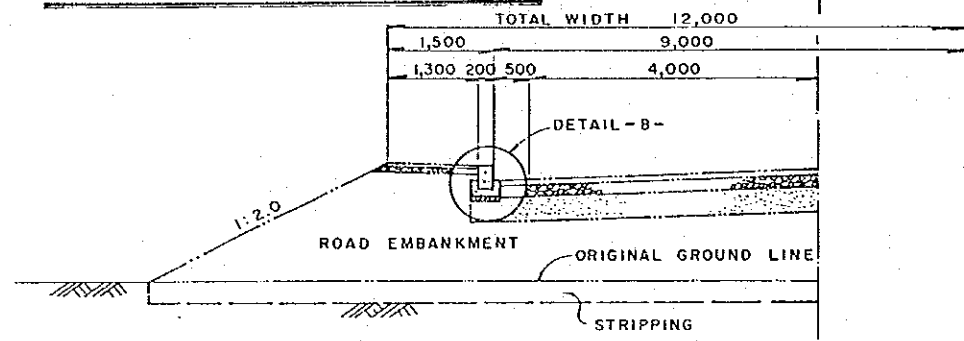
IN AND OUTLET OF 1,000MMx2 CULVERT



THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD PIPE CULVERT (2/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. ROD-1013	

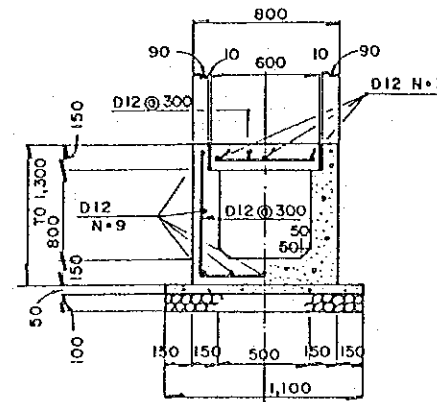


ROAD SECTION (TYPE B)

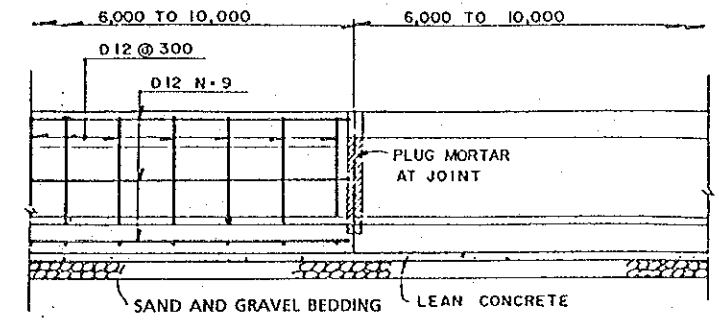


ROAD SECTION (TYPE C)

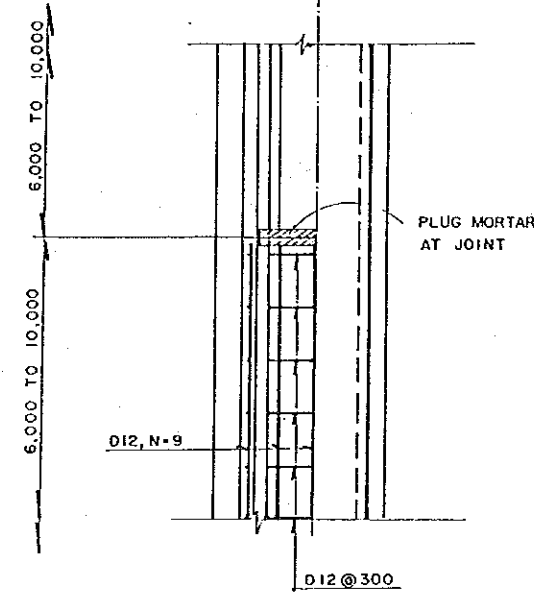
FOR TYPE OF ROAD SECTION, SEE DWG. NO. ROD-1007



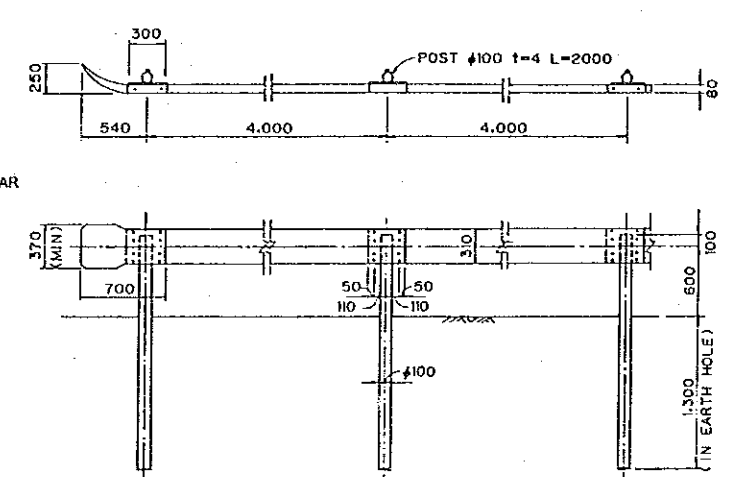
SECTION



PROFILE

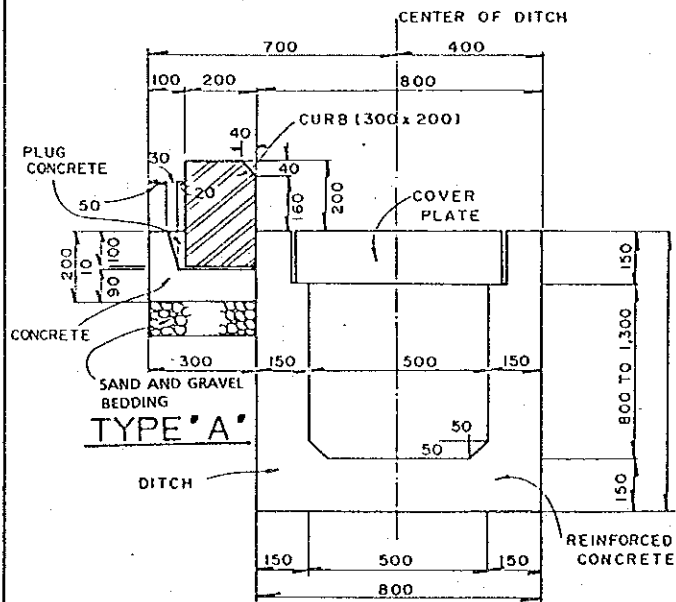


PLAN



PLAN AND ELEVATION
DETAILS OF GUARDRAIL

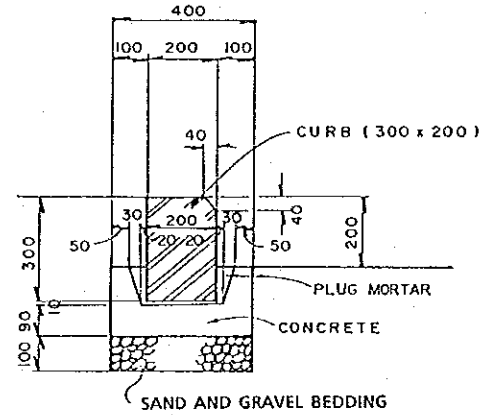
SCALE 2.0M



CONCRETE CURB

DETAIL - A -

SCALE 1.0M

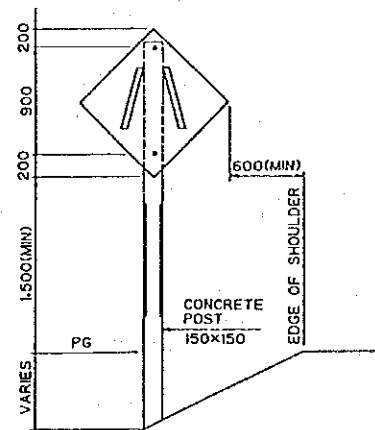


TYPE 'B'

DETAIL - B -

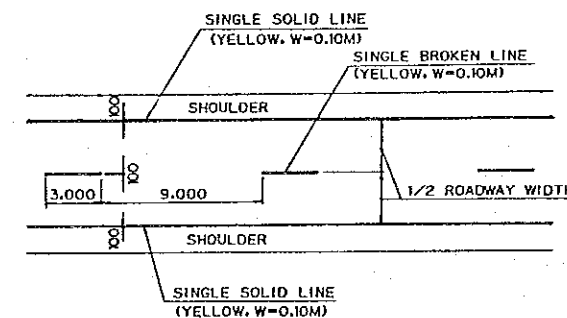
REMARKS

- LENGTH OF CURB SHALL BE PROPOSED IN SHOP DRAWING BY THE CONTRACTOR FOR THE APPROVAL.
- USING OF PRE-FABRICATED CONCRETE BY THE MANUFACTURE ON THE CURB, THE CONTRACTOR SHALL SUBMIT FOLLOWING DATA FOR THE APPROVAL.
 - MANUFACTURE'S NAME, MAKE & MODEL.
 - TECHNICAL SPECIFICATION



WARNING SIGN

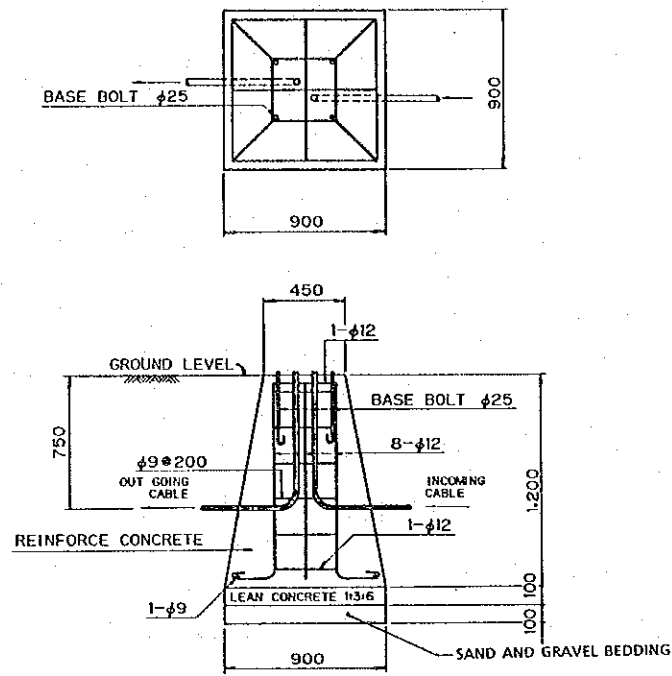
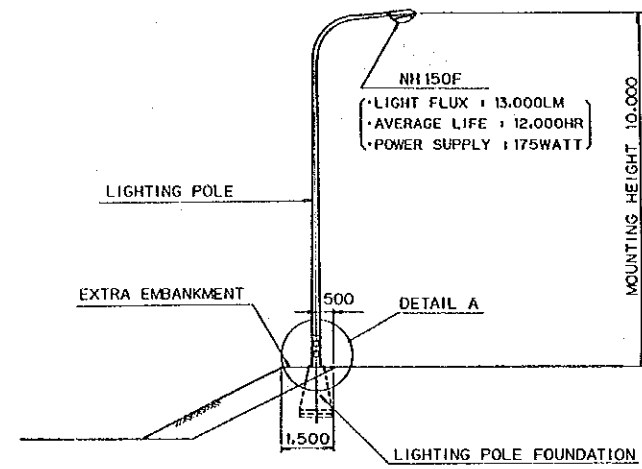
SCALE 1.0M



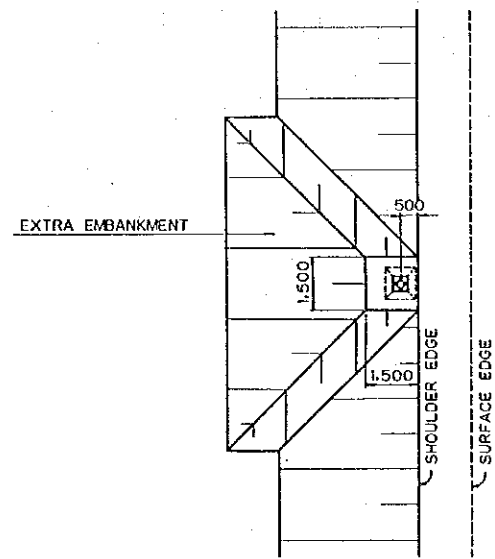
PLAN OF MARKING

SCALE 10M

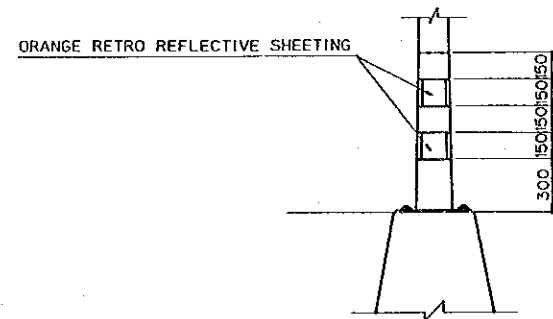
THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD CURB & DITCH	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. ROD-1014	



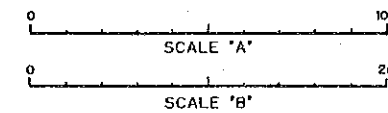
LIGHTING POLE FOUNDATION DETAILS
SCALE 'B'



LOCATION OF LIGHTING POLE
SCALE 'A'

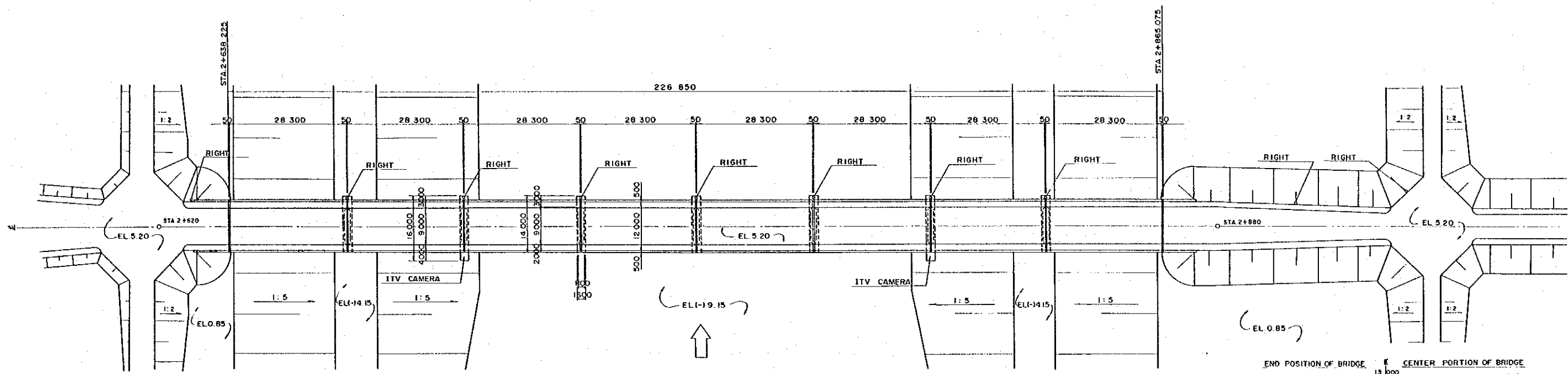


DETAIL A
SCALE 'B'

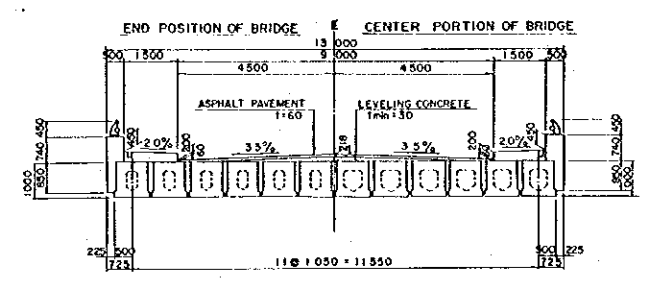


THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD DETAIL OF LIGHTING	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. ROD - 1015	

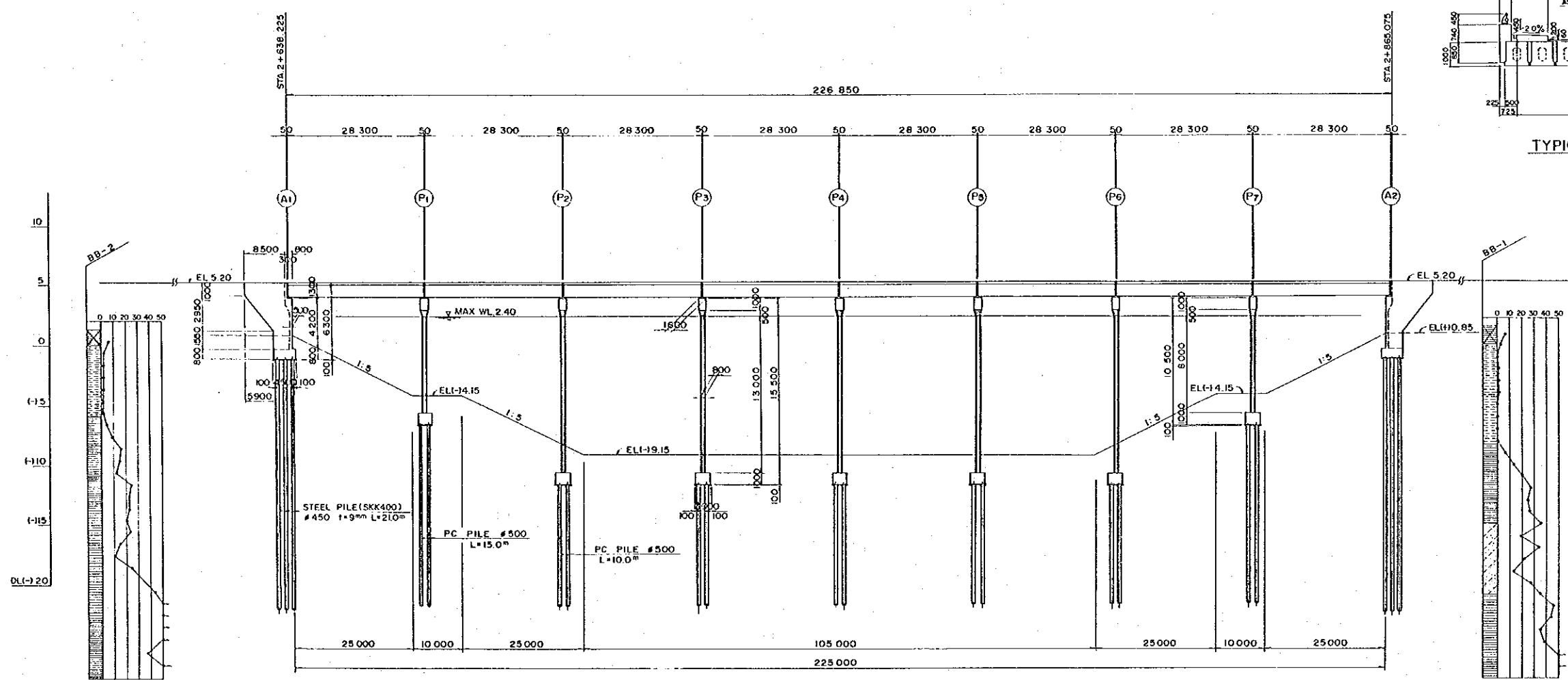
ROAD BRIDGE



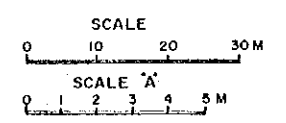
PLAN OF ROAD BRIDGE



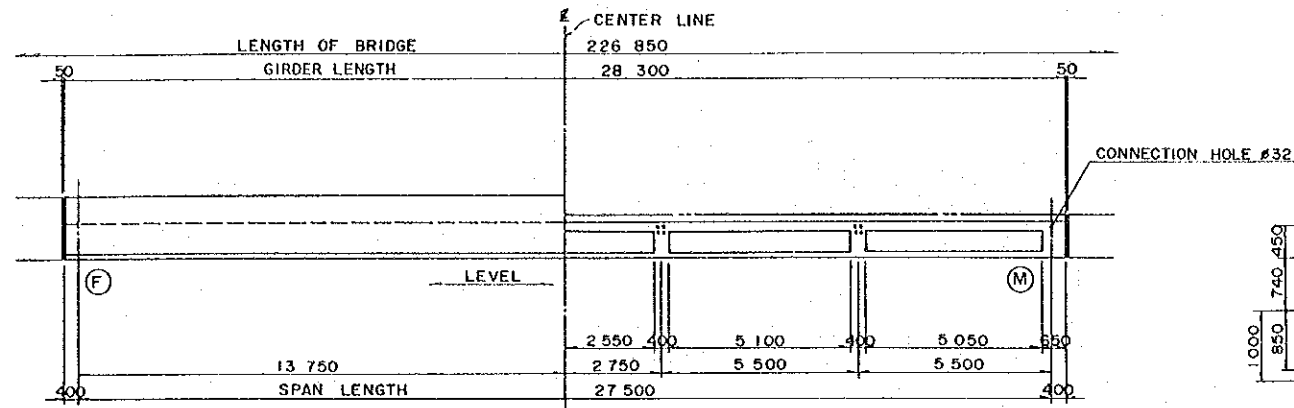
TYPICAL SECTION OF ROAD BRIDGE
SCALE 'A'



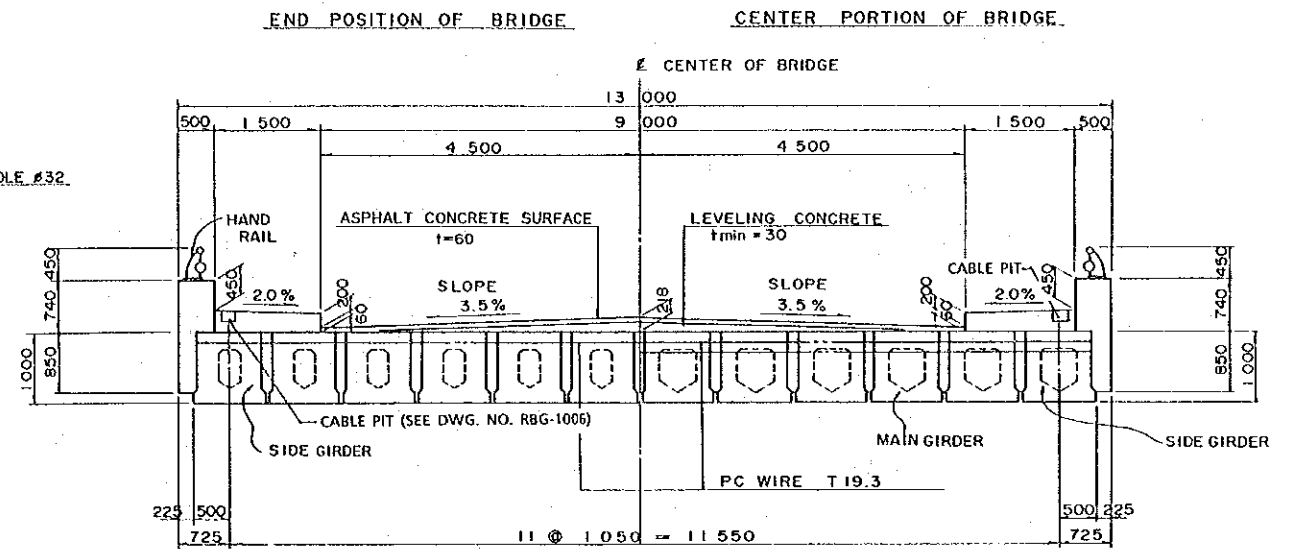
ELEVATION OF ROAD BRIDGE



THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD BRIDGE PLAN & ELEVATION	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. RBG - 1001	

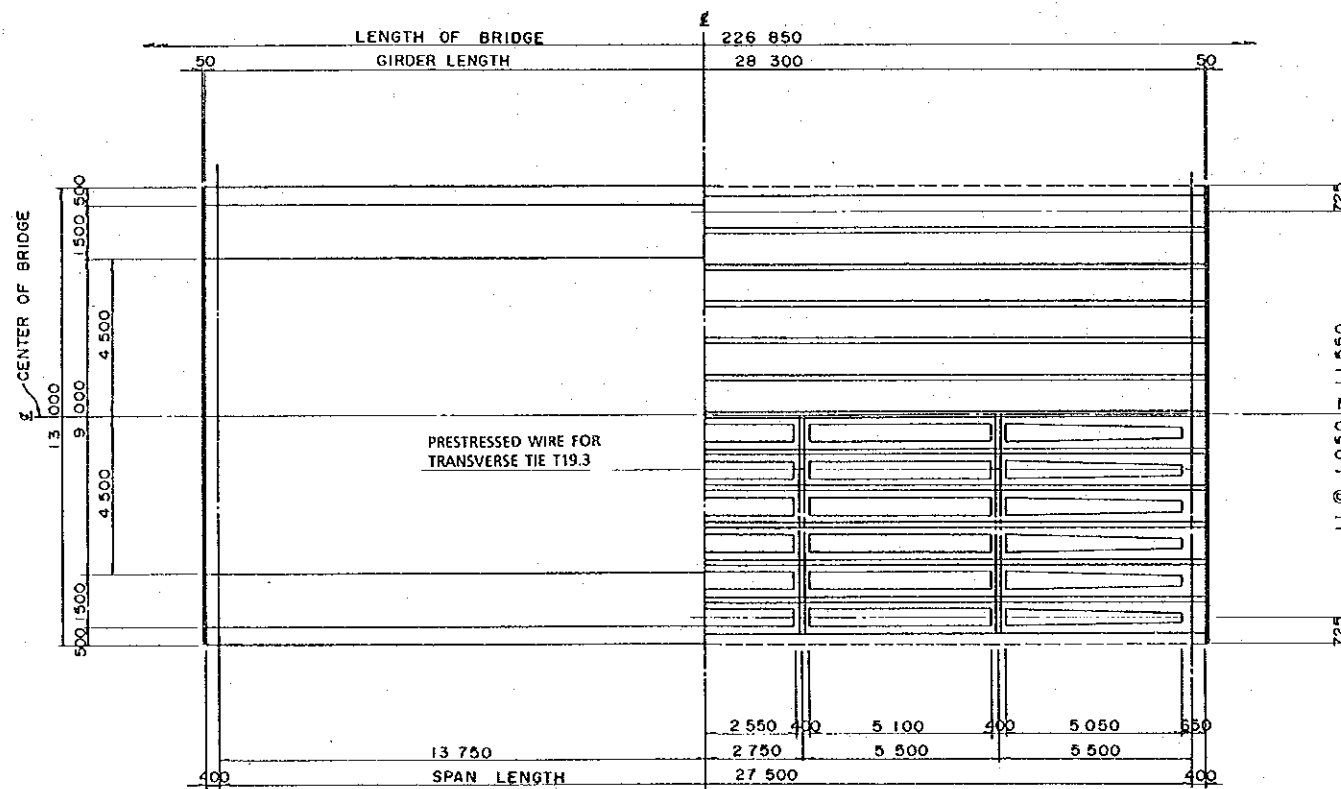


ELEVATION

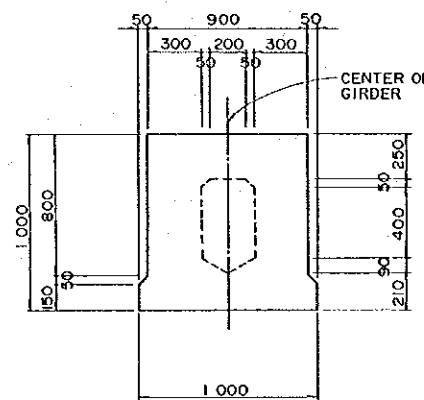


TYPICAL SECTION OF BRIDGE

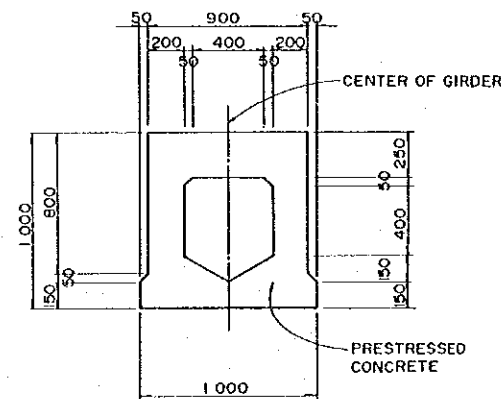
SCALE "A"



PLAN



END POINT



CENTER POINT

DETAIL OF MAIN GIRDER

SCALE "B"

DESIGN CONDATION

KIND OF BRIDGE	PRESTRESSED CONCRETE ROAD BRIDGE
TYPE	POST TENSION, SIMPLE GIRDER HOLLOW TYPE
TOTAL LENGTH OF BRIDGE	226.850 M
GIRDER LENGTH	28.300 M
SPAN LENGTH	27.500 M
TOTAL WIDTH OF BRIDGE	13.000 M
TRAFFIC WIDTH	9.00 M (VEHICLE) + 1.500 x 2 (SIDE WALK)
LOAD	TL - 20
SCREW	RIGTH ANGLE 90° 00'

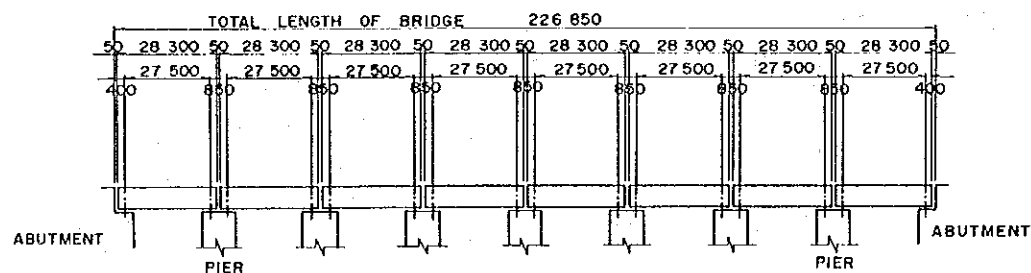
ALLOWABLE STRESS AND STRENGTH

CONCRETE	DESIGN STRENGTH	GIRDER	CONCRETING AT SITE
kg-f/sqcm	ALLOWABLE COMPRESIVE STRESS	400	240
	DESIGN	180	108
	PRESTRESSING	180	-
	ALLOWABLE TENSION STRESS		
	DESIGN	-15	0
	PROSTRESSING	-15	-
	ALLOWABLE SHEARING STRESS		
	DESIGN	5.5	-
	FINAL LOADING	53	-
	ALLOWABLE INCLINED SHEARING STRESS		
	COMPRESIVE STRESS AT PRESTRESSING	340	-

PC STEEL

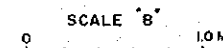
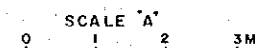
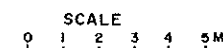
KIND	SWPRTA	SWPR 19
kg-f/sqmm	12 T 12.4	T 19.3
	PRESTRESSING STRESS	175
	STRENGTH OF YIELDING	150
	ALLOWABLE TENSION STRESS	
	- DESIGN	105
	- PRESTRESSING	122.5
	- WORKING TIME OF PRESTRESS	135
	- ALLOWABLE TENSION STRESS	1,400

REINFORCING BAR (SD30) kg-f/sqcm



LONGITUDINAL SECTION OF THE BRIDGE

NO SCALE



NOTE

I. LEGEND

- (M) MOVABLE POINT
- (F) FIXING POINT

THE KINGDOM OF THAILAND
ROYAL IRRIGATION DEPARTMENT

THE BANG PAKONG DIVERSION DAM PROJECT

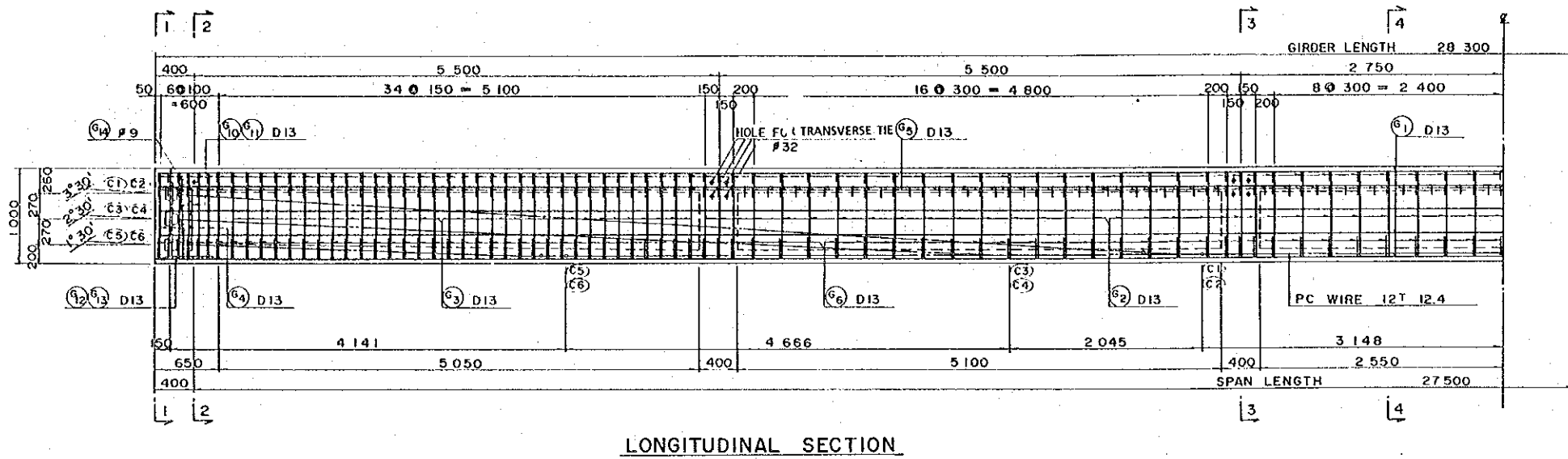
ROAD BRIDGE

DETAILS OF GIRDER (1/2)

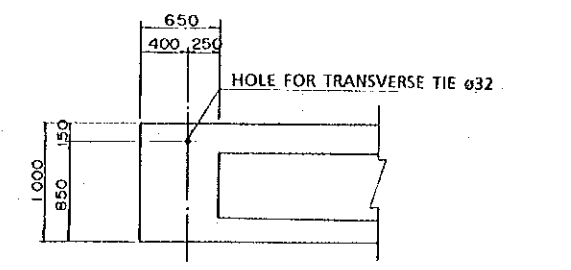
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
SANYU CONSULTANTS INC.

DESIGNED	
TRACED	
CHECKED	
APPROVED	

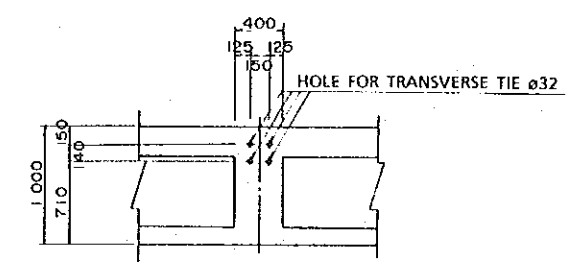
DRAWING NO. RBG - 1002



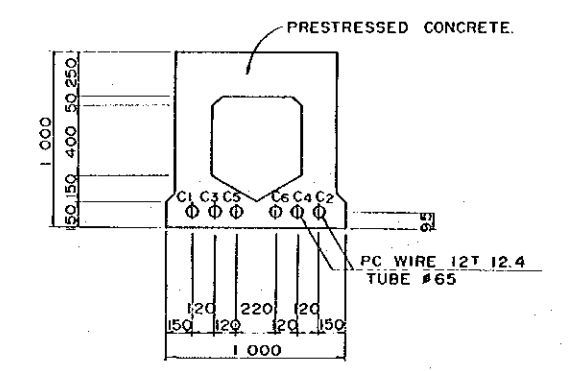
LONGITUDINAL SECTION



END PORTION



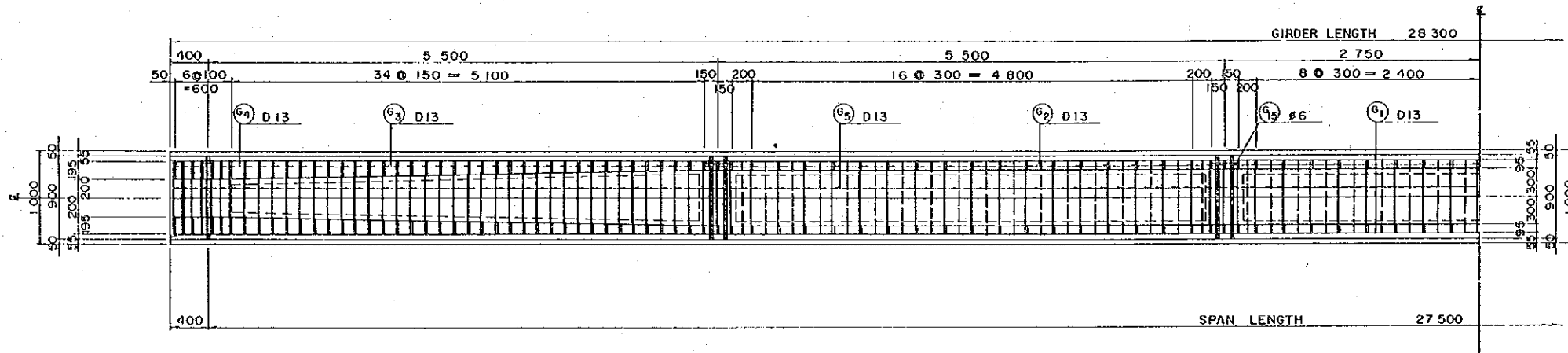
OTHER THAN END PORTION
HOLE FOR TRANSVERSE TIE



INSTALLATION OF PC WIRE & WIRE TUBE
SCALE 'A'

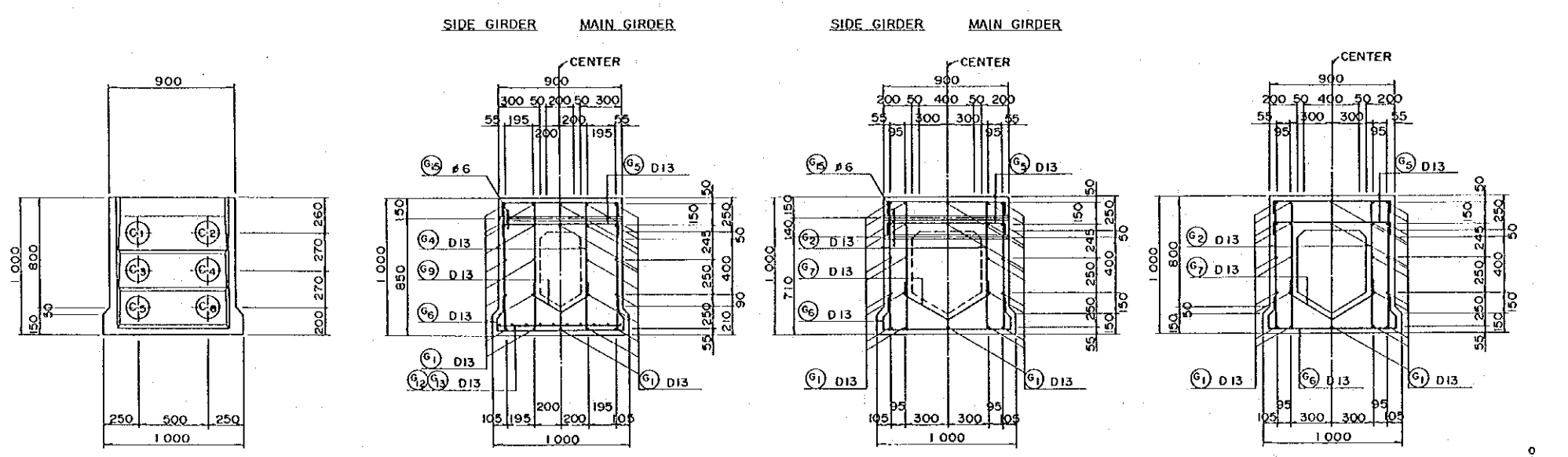
NOTE
1. ALL DIMENSIONS ARE GIVEN IN MILLIMETER EXCEPT THE OTHERS SPECIFIED.
2. LEGEND
G REINFORCING BAR
C PC WIRE, TUBE AND FIXING.

MAIN GIRDER SIDE GIRDER

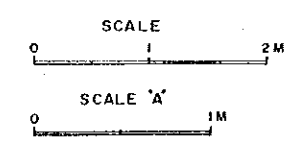


PLAN

DETAILS OF MAIN GIRDER



DETAILS OF GIRDER SECTION
SCALE 'A'



THE KINGDOM OF THAILAND ROYAL IRRIGATION DEPARTMENT	
THE BANG PAKONG DIVERSION DAM PROJECT	
ROAD BRIDGE	
DETAILS OF GIRDER (2/2)	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) SANYU CONSULTANTS INC.	
DESIGNED	
TRACED	
CHECKED	
APPROVED	
DRAWING NO. RBG-1003	