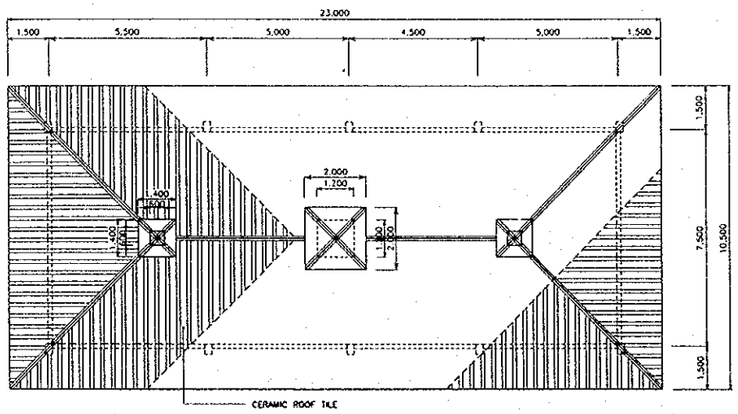
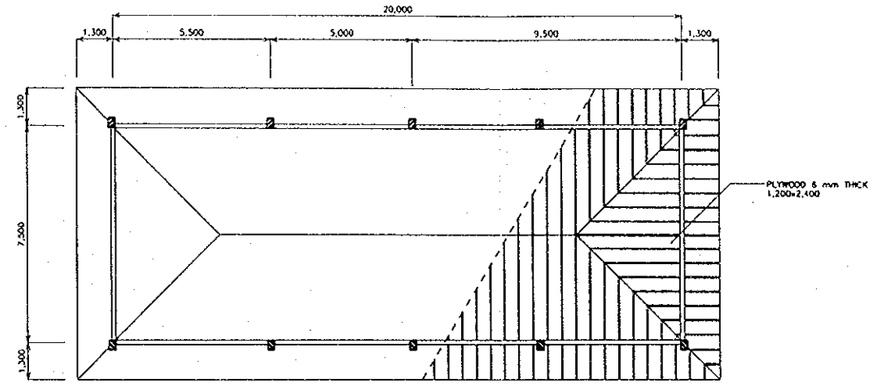
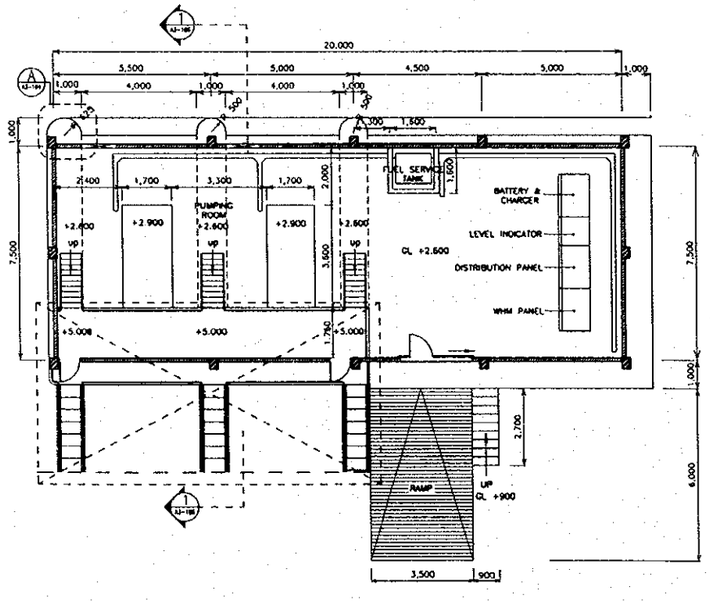


ROOF PLAN
SCALE A | A3 | 104

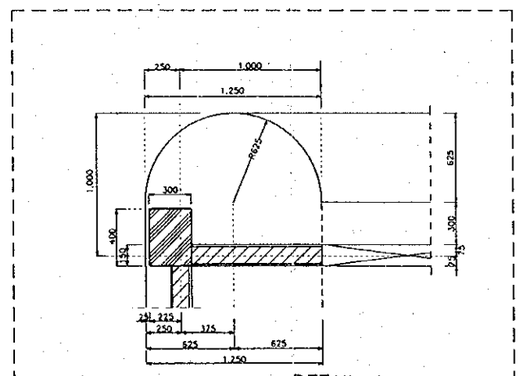


REFLECTED CEILING PLAN
SCALE A | A3 | 104



NOTES :
1. BASE IS CIVIL WORK.
2. MARK IS CIVIL WORK.

FLOOR PLAN
SCALE A | A3 | 104

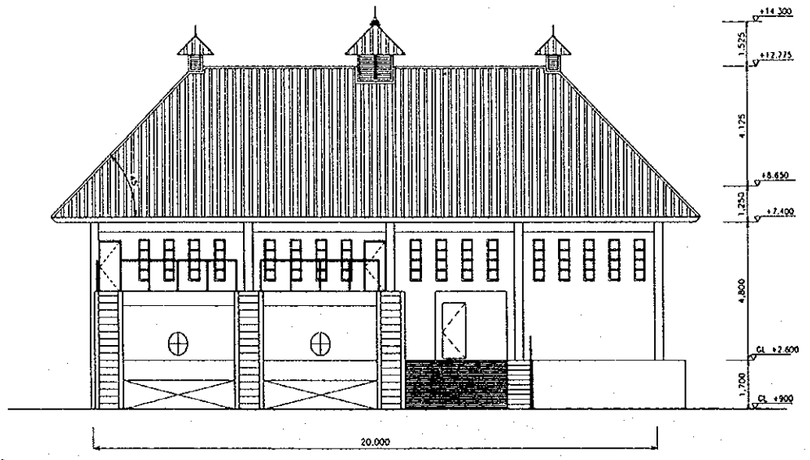


DETAIL A
SCALE B | A3 | 104

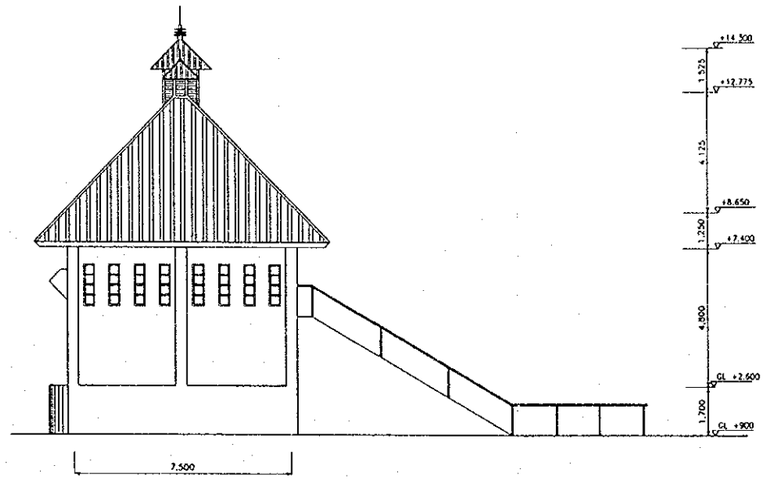
SCALE A 0 5 10 m
SCALE 1:100

SCALE B 0 1 2 m
SCALE 1:20

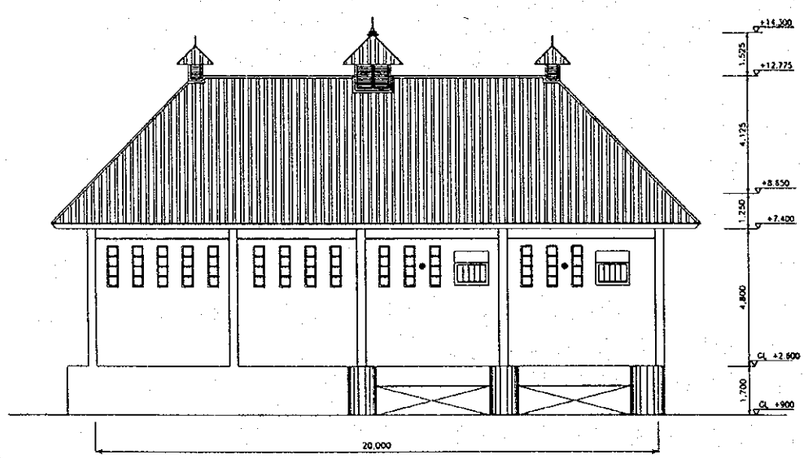
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.20 (1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	PUMP CONTROL BUILDING (1/2)



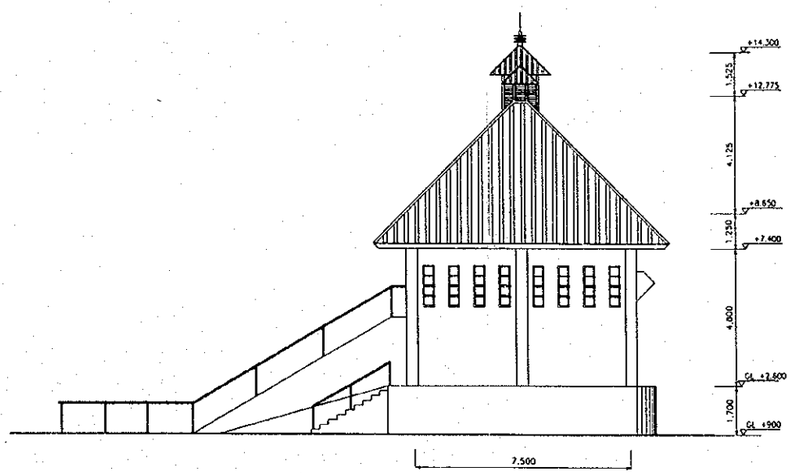
SOUTH ELEVATION
SCALE A
A3 105



WEST ELEVATION
SCALE A
A3 105



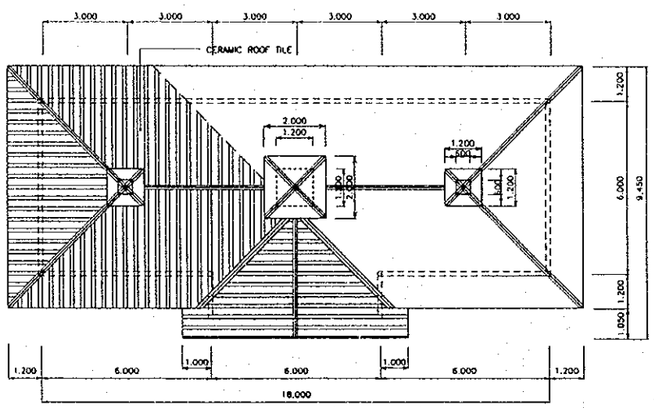
NORTH ELEVATION
SCALE A
A3 105



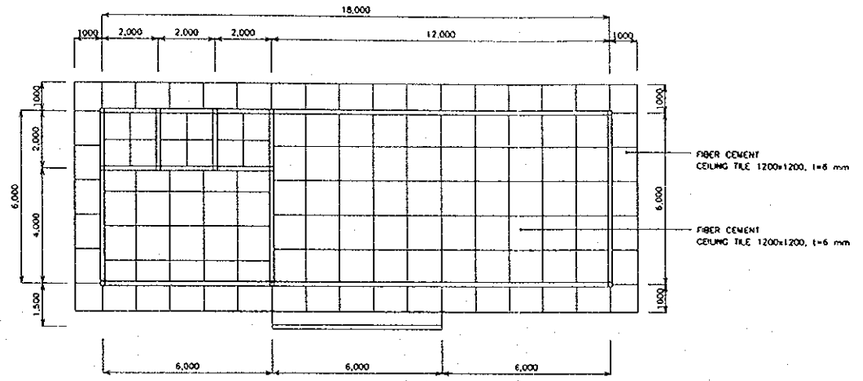
EAST ELEVATION
SCALE A
A3 105

SCALE A 0 5 10 m
SCALE 1:100

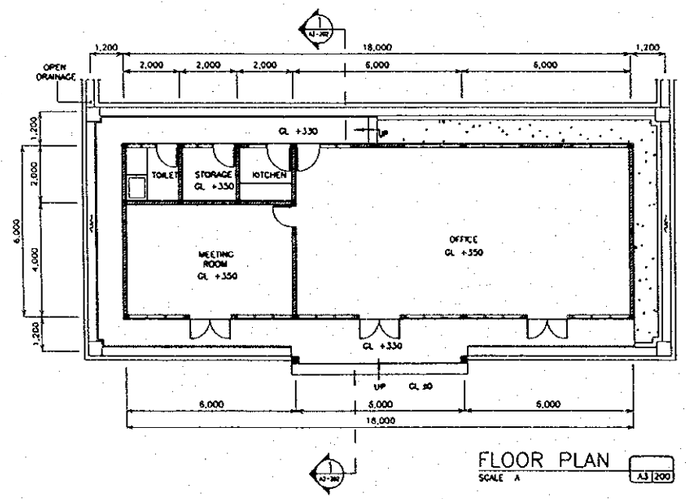
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.20 (2/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	PUMP CONTROL BUILDING (2/2)



ROOF PLAN
SCALE A



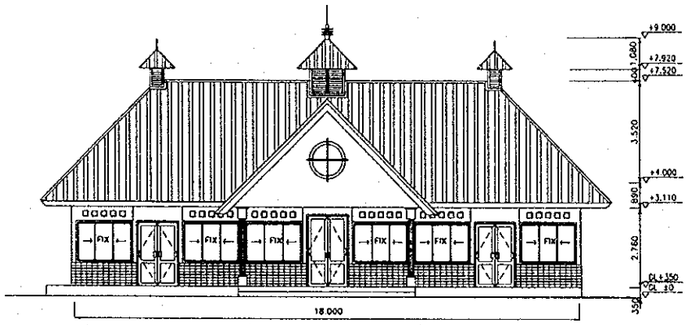
REFLECTED CEILING PLAN
SCALE A



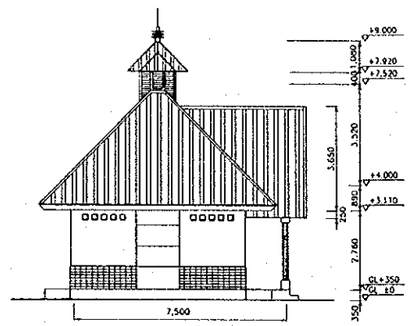
FLOOR PLAN
SCALE A

SCALE A 0 5 10 m
SCALE 1:100

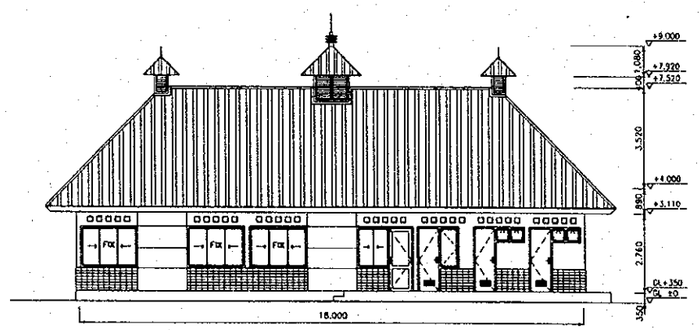
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.21 (1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	MANAGEMENT OFFICE (1/2)



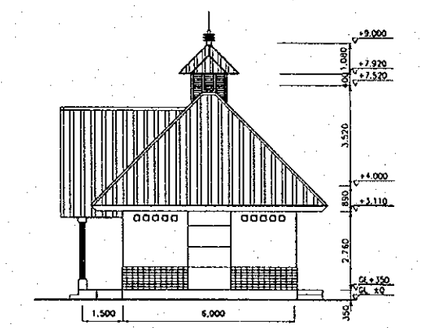
EAST ELEVATION
SCALE A



SOUTH ELEVATION
SCALE A



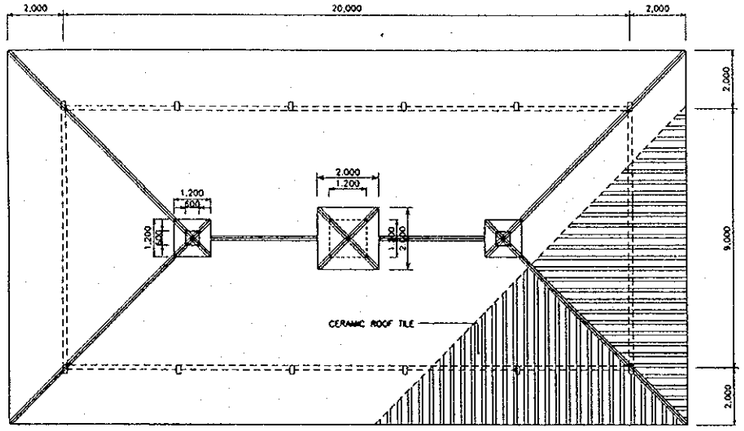
WEST ELEVATION
SCALE A



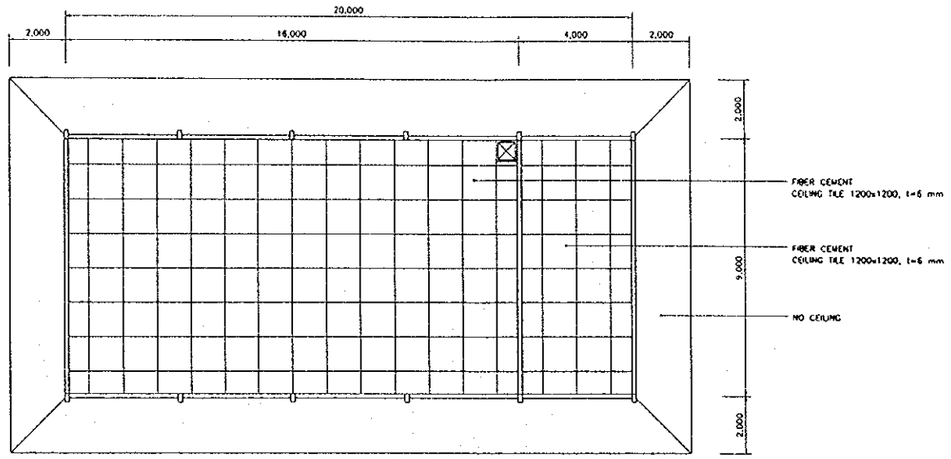
NORTH ELEVATION
SCALE A

SCALE A 0 5 10 m
SCALE 1:100

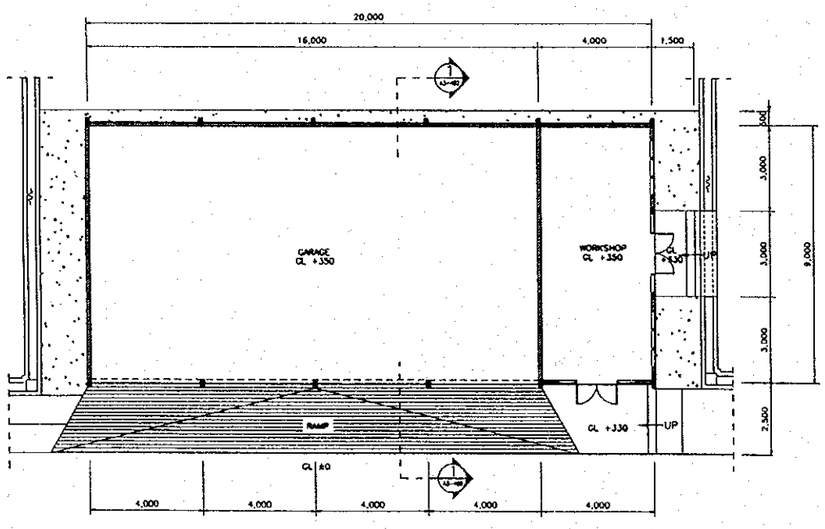
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.21 (2/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	MANAGEMENT OFFICE (2/2)



ROOF PLAN
SCALE A



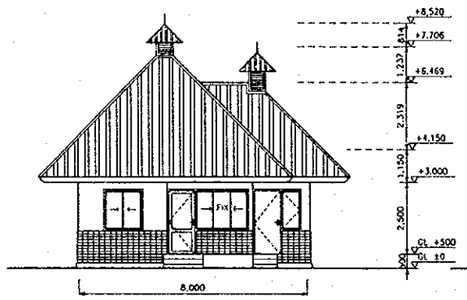
REFLECTED CEILING PLAN
SCALE A



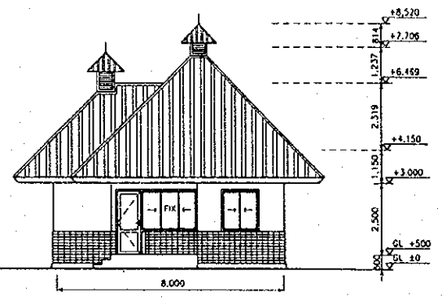
FLOOR PLAN
SCALE A

SCALE A 0 5 10 m
SCALE 1:100

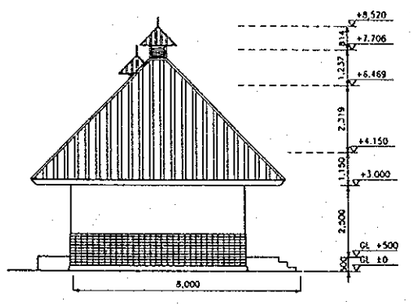
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.22
JAPAN INTERNATIONAL COOPERATION AGENCY	GARAGE



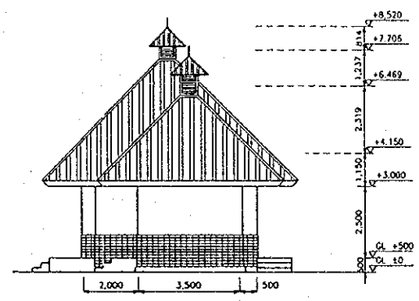
EAST ELEVATION
SCALE A



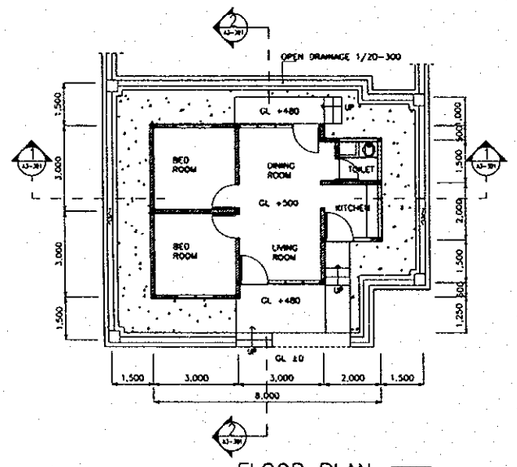
WEST ELEVATION
SCALE A



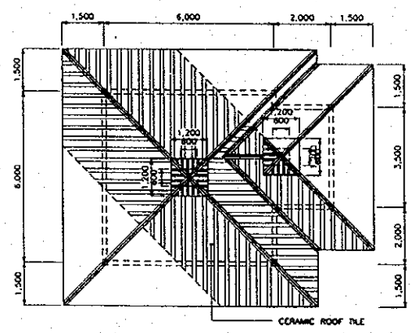
SOUTH ELEVATION
SCALE A



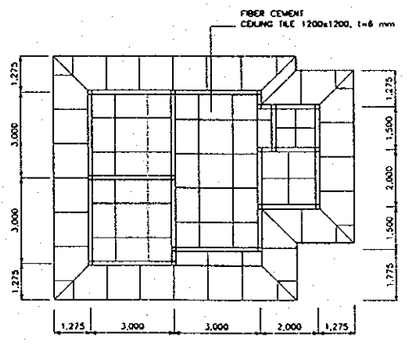
NORTH ELEVATION
SCALE A



FLOOR PLAN
SCALE A



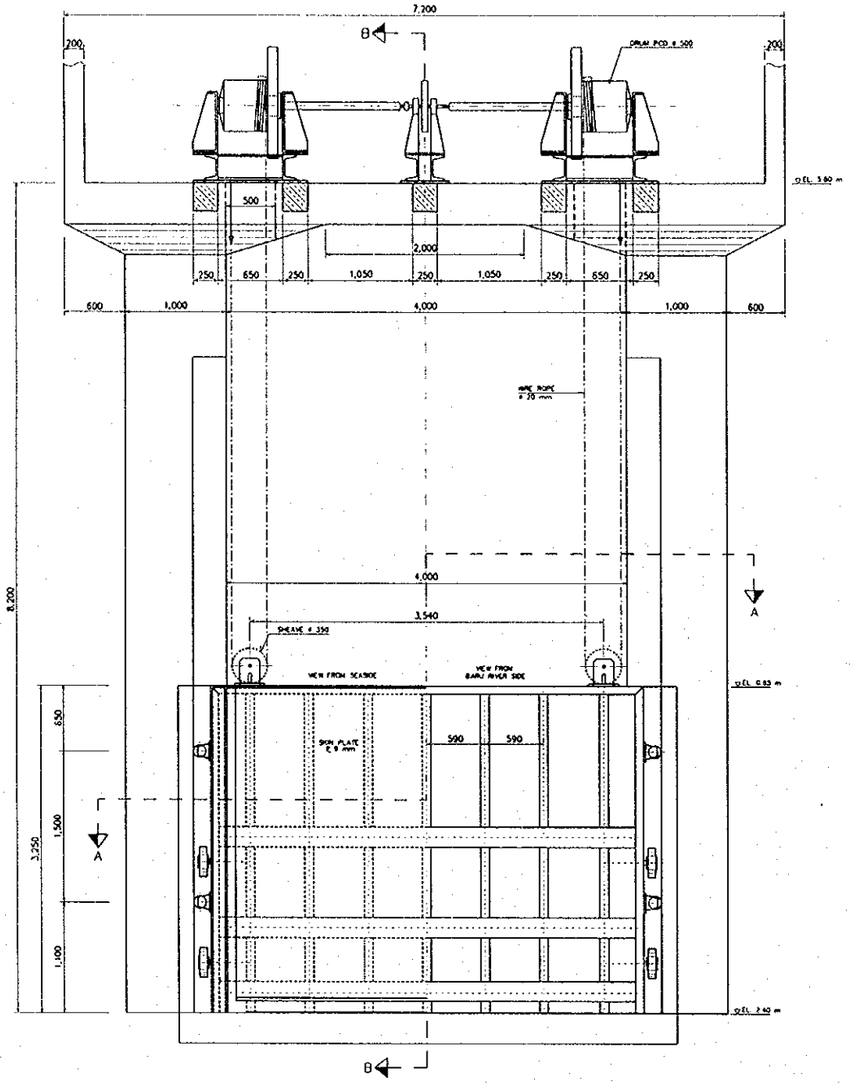
ROOF PLAN
SCALE A



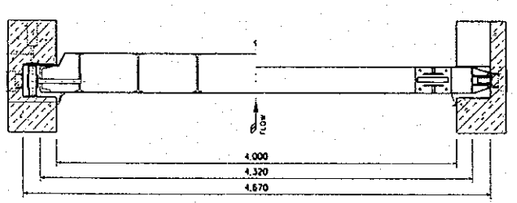
REFLECTED CEILING PLAN
SCALE A

SCALE A 0 5 10 m
SCALE 1:100

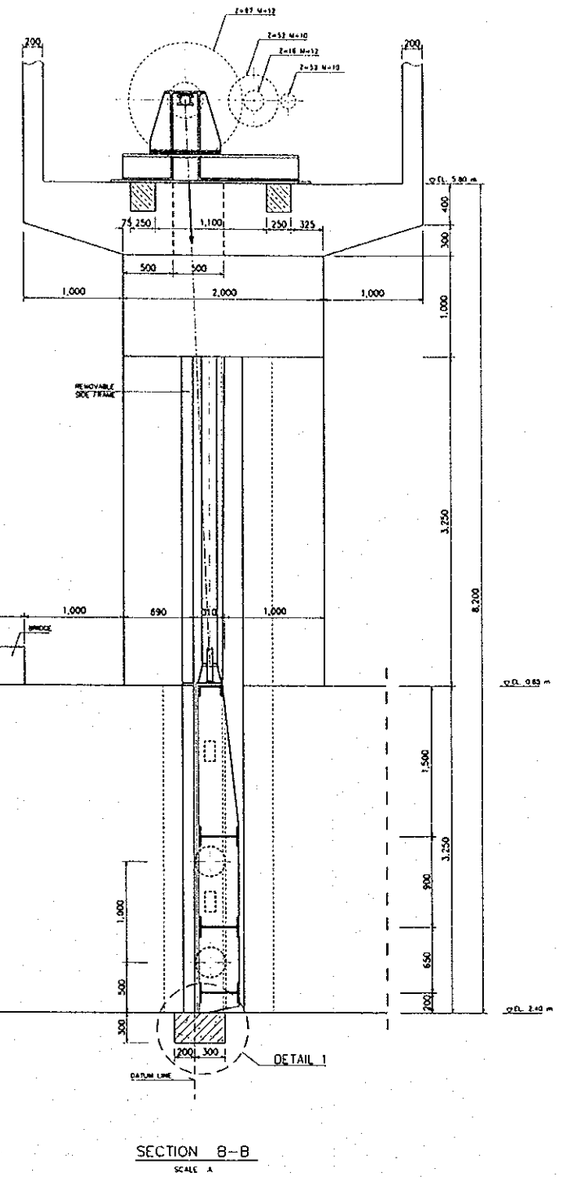
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.23 STAFF HOUSE
JAPAN INTERNATIONAL COOPERATION AGENCY	



ELEVATION
SCALE A



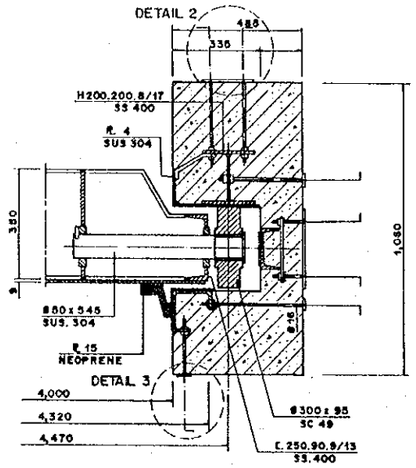
SECTION A–A
SCALE A



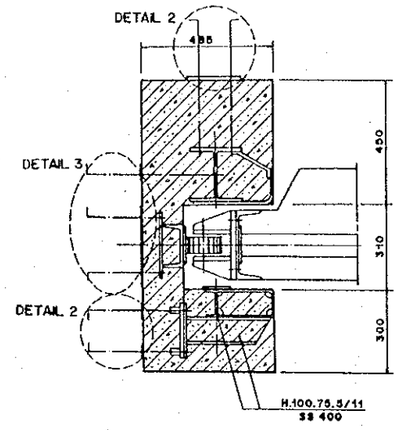
SECTION B–B
SCALE A

SCALE A 0 0.5 1 2 2.5 m

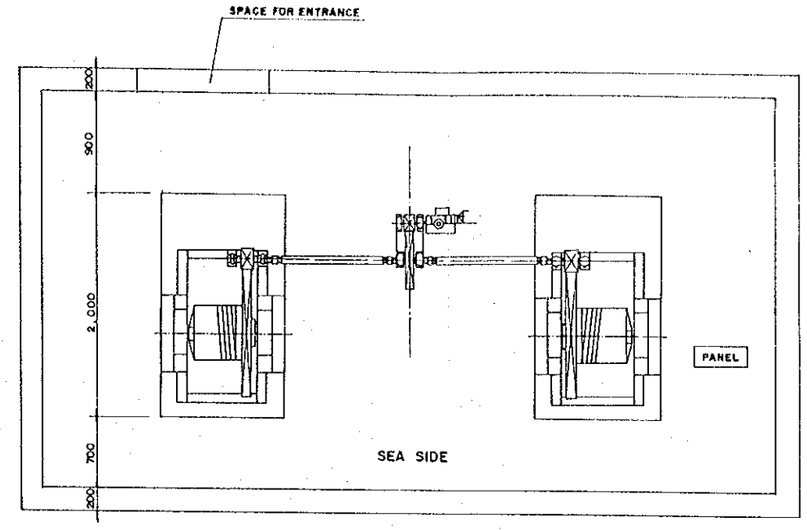
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.24 GENERAL STRUCTURE OF BARU PUMPING STATION GATE
JAPAN INTERNATIONAL COOPERATION AGENCY	



SECTION C - C

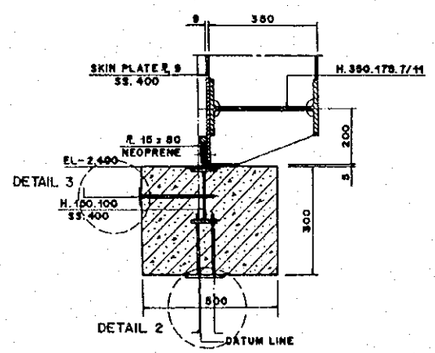


SECTION D - D

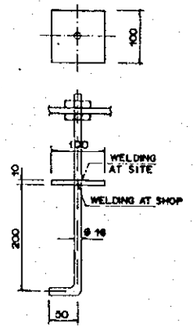


PLAN OF HOIST
SCALE B

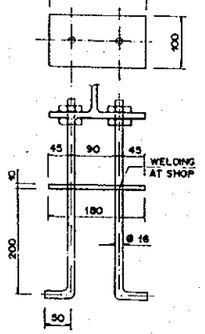
DETAIL OF GUIDE FRAME
SCALE A



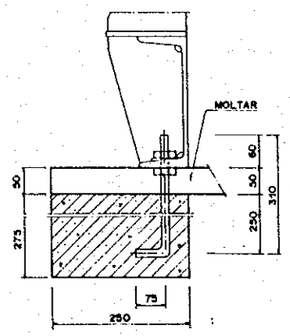
DETAIL 1
SCALE A



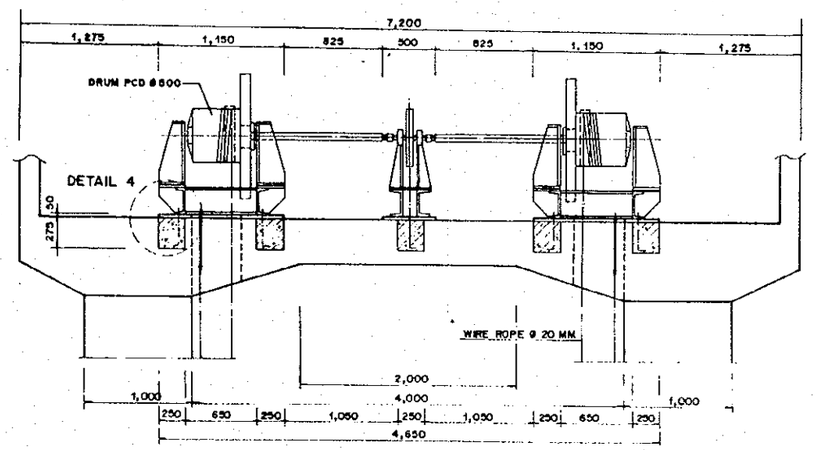
DETAIL 3
SCALE C



DETAIL 2
SCALE C



DETAIL 4
SCALE C



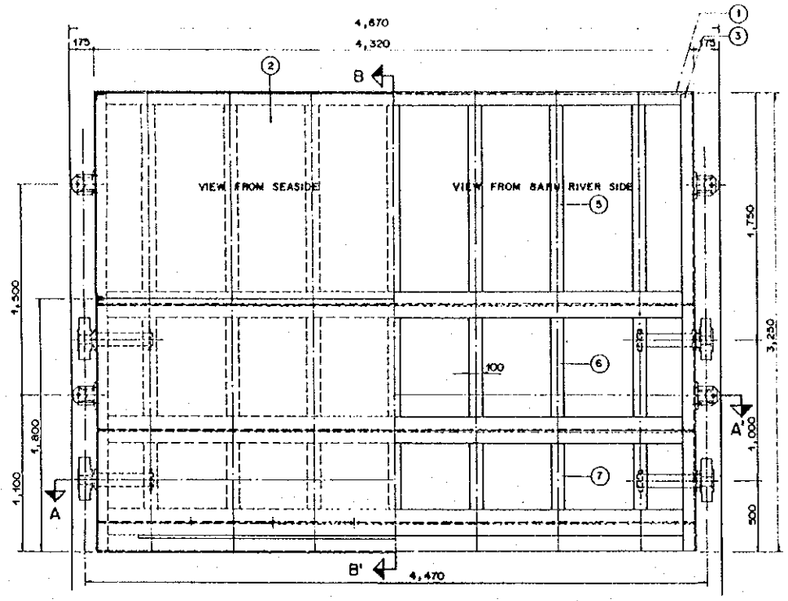
ELEVATION OF HOIST
SCALE B

SCALE C 1 : 5 — 0 100 200 300 400 500 mm

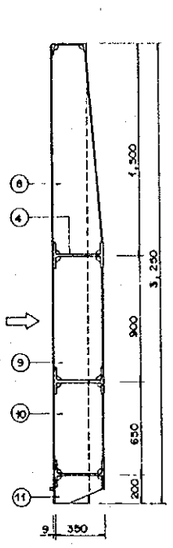
SCALE B 1 : 25 — 0 500 1,000 1,500 2,000 2,500 mm

SCALE A 1 : 10 — 0 200 400 600 800 1,000 mm

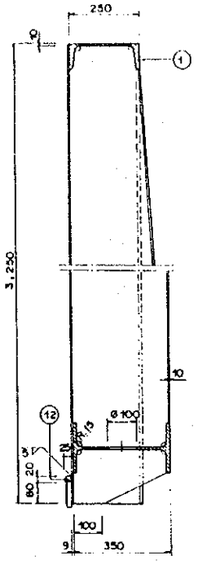
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.25 (1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	DETAIL OF GUIDE FRAME/LAYOUT OF HOIST



ELEVATION OF GATE LEAF
SCALE A

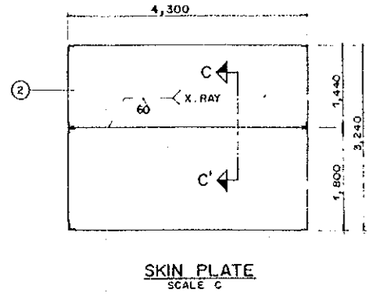


(SCALE A)

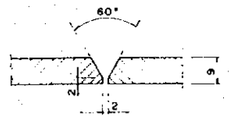


(SCALE B)

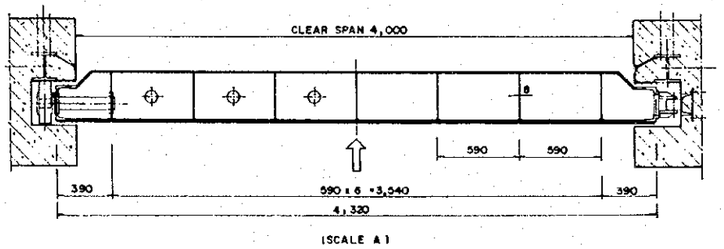
SECTION OF GATE LEAF
B - B'



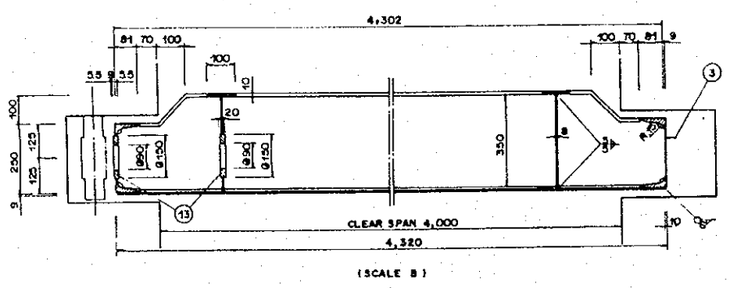
SKIN PLATE
SCALE C



SECTION (C - C')
SCALE B

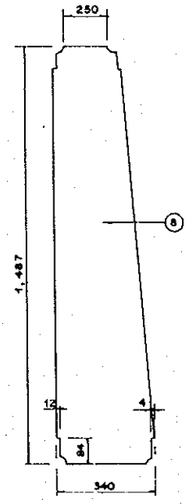


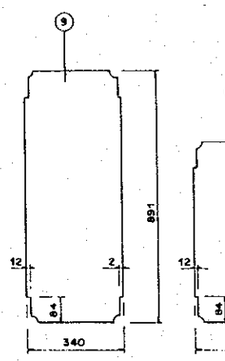
(SCALE A)

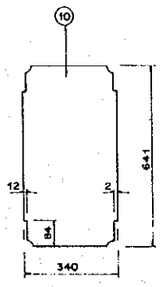


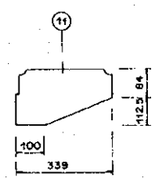
(SCALE B)

SECTION OF GATE LEAF
A - A'









DIMENSION OF GIRDERS
SCALE B

PART No.	DESCRIPTION	Q'TY	MATERIAL	DIMENSION
1	HORIZONTAL BEAM	1	SS. 400	C 250
2	SKIN PLATE	1	SS. 400	PL. 9
3	VERTICAL BEAM	2	SS. 400	C . 250
4	HORIZONTAL BEAM	3	SS. 400	H .350.175.7/11
5	VERTICAL GIRDER	7	SS. 400	PL. 10
6	VERTICAL GIRDER	7	SS. 400	PL. 10
7	VERTICAL GIRDER	7	SS. 400	PL. 10
8	VERTICAL GIRDER	7	SS. 400	PL. 8
9	VERTICAL GIRDER	7	SS. 400	PL. 8
10	VERTICAL GIRDER	7	SS. 400	PL. 8
11	VERTICAL GIRDER	7	SS. 400	PL. 8
12	STOPPER	1	SS. 400	PL. 20 x 25
13	REINFORCEMENT	8	SS. 400	Ø 150 x 20

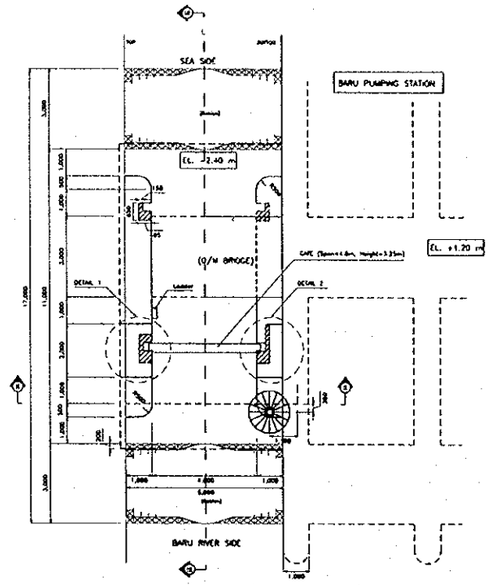
SCALE C 1 : 50 — 0 1.0 2.0 3.0 4.0 5.0 m
SCALE B 1 : 10 — 0 0.5 1.0 m
SCALE A 1 : 20 — 0 1.0 2.0 m

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

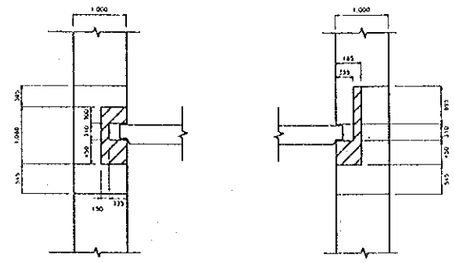
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.4.25 (2/2)

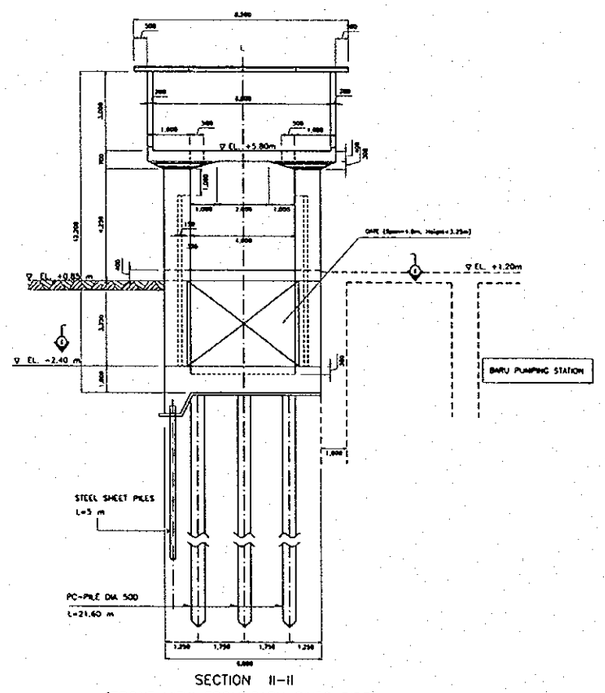
GATE LEAF



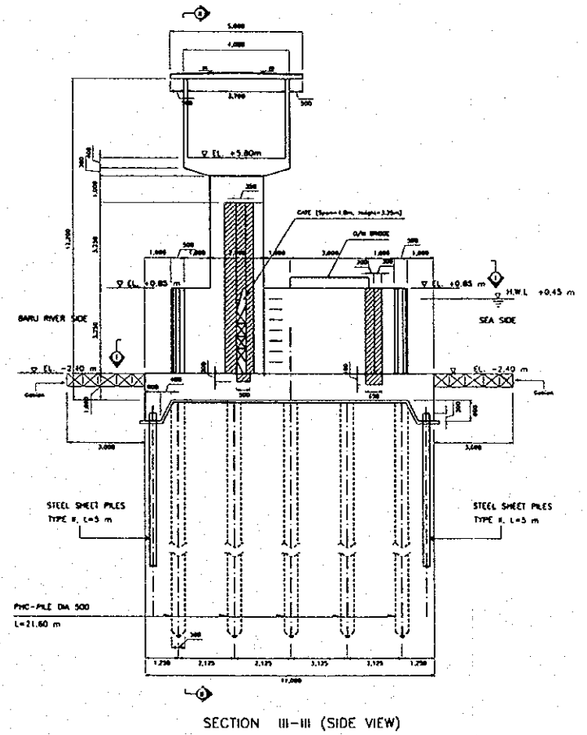
SECTION I–I (PLAN)
SCALE A



DETAIL OF SECONDARY CONCRETE (Column)
SCALE B



SECTION II–II
(FRONT VIEW FROM BARU RIVER SIDE)
SCALE A

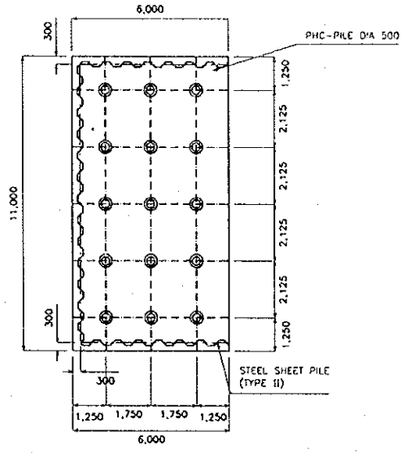


SECTION III–III (SIDE VIEW)
SCALE A

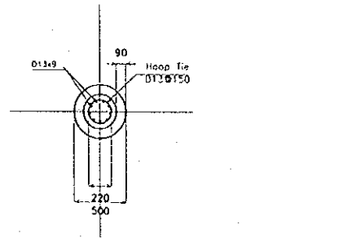
SCALE A 0 5 10m

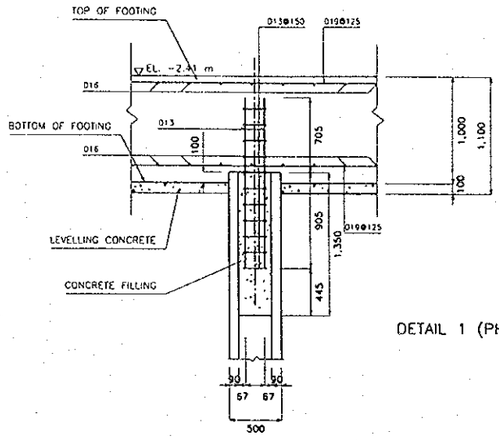
SCALE B 0 1 2 3 4 5m

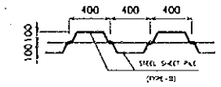
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.26 BARU PUMPING STATION GATE
JAPAN INTERNATIONAL COOPERATION AGENCY	



PLAN
SCALE A



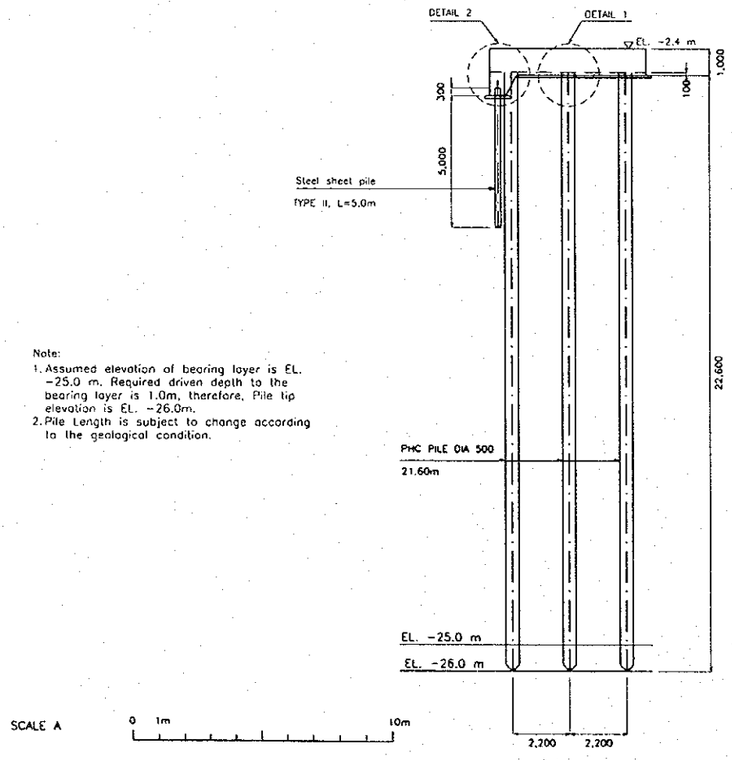




DETAIL OF STEEL SHEET PILE
SCALE B

Note:
1. Detail of Reinforcing bar arrangements of footing are shown on the drawings "Asin Pumping Station Gate, Reinforcing Bar Arrangement".
2. No pc-cables of PHC-Pile are shown on this drawing.
3. Embedding of reinforcing bar basket for treatment of pile top is done at site.

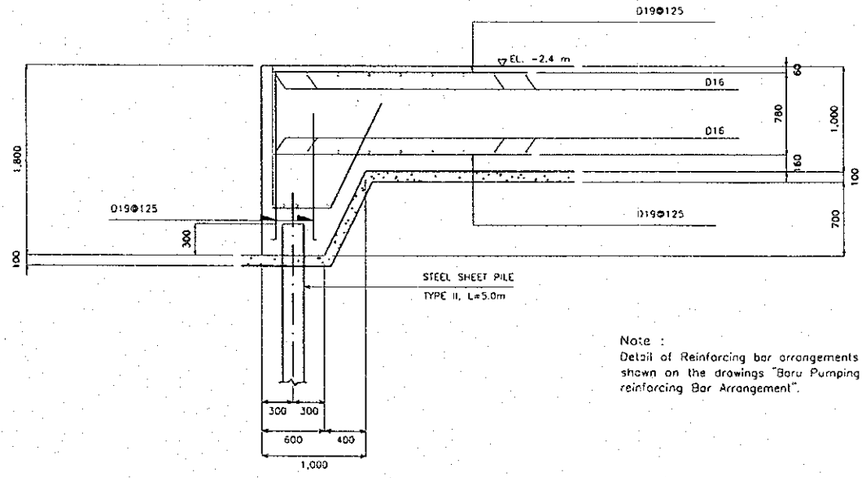
DETAIL 1 (PHC PILE TOP TREATMENT)
SCALE B



Note:
1. Assumed elevation of bearing layer is EL. -25.0 m. Required driven depth to the bearing layer is 1.0m, therefore, Pile tip elevation is EL. -26.0m.
2. Pile Length is subject to change according to the geological condition.

SCALE A 0 1m 10m
SCALE B 0 0.5m 2.5m

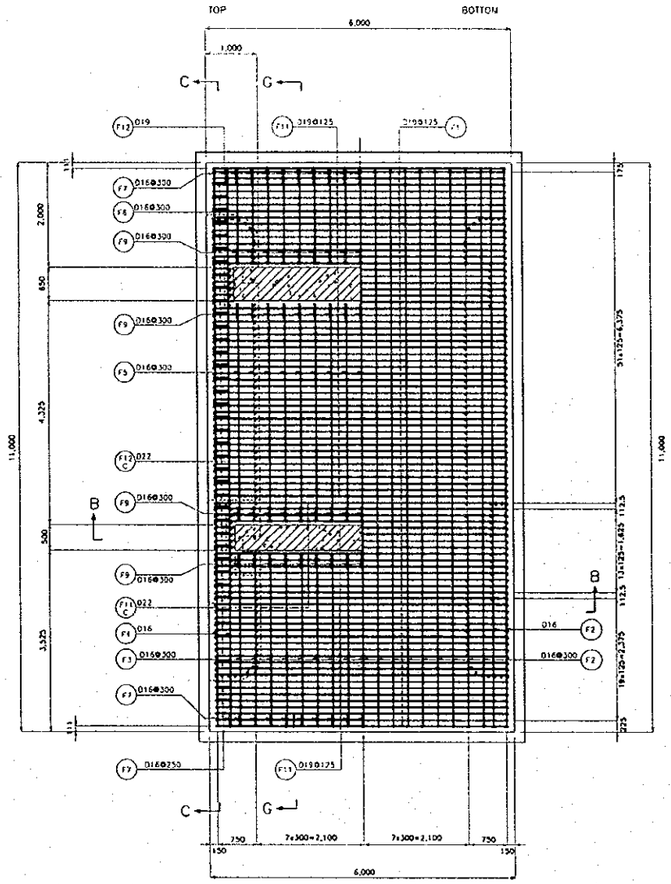
SECTION
SCALE A



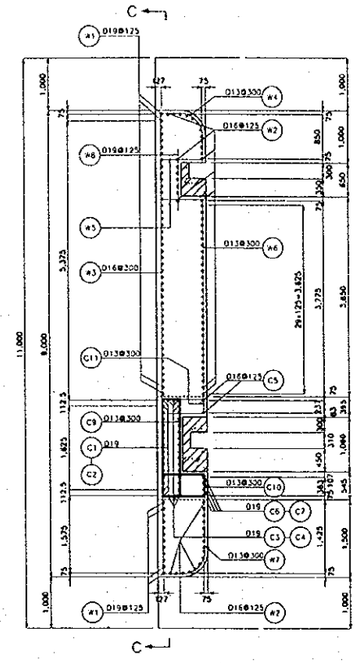
Note :
Detail of Reinforcing bar arrangements of footing are shown on the drawings "Baru Pumping Station Gate, reinforcing Bar Arrangement".

DETAIL 2
(JOINT BETWEEN STEEL SHEET PILE AND FOOTING)
SCALE B

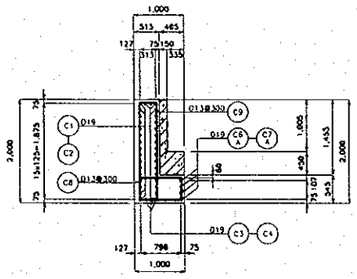
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.27
JAPAN INTERNATIONAL COOPERATION AGENCY	PILE FOUNDATION OF BARU PUMPING STATION GATE



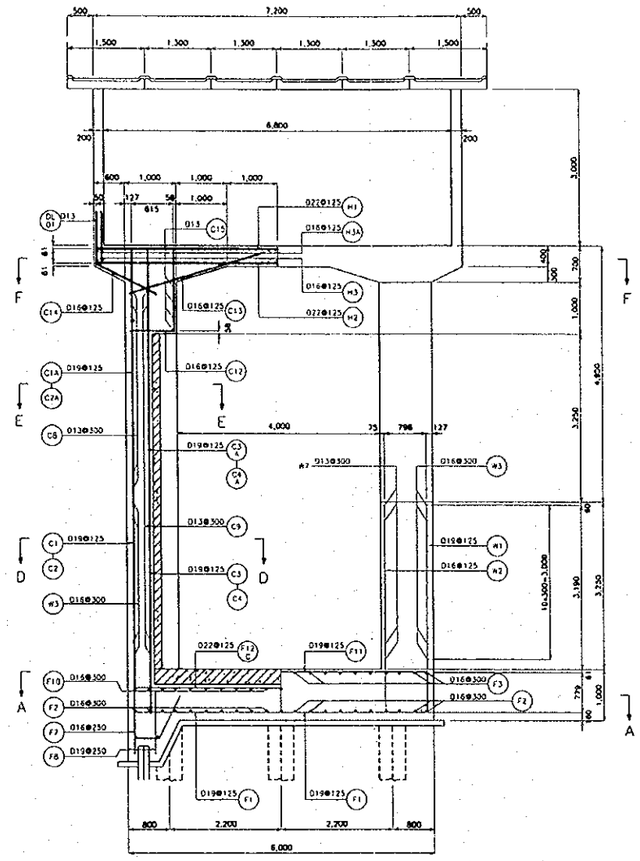
SECTION A–A
SCALE A



SECTION D–D
Scale A



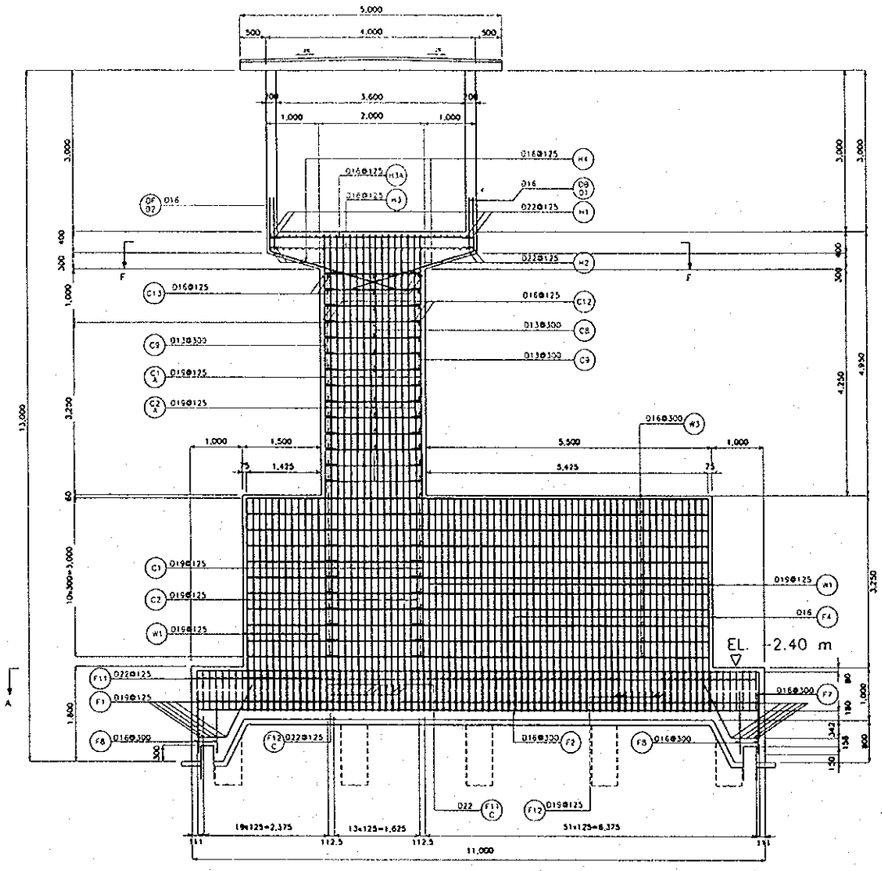
SECTION E–E
Scale A



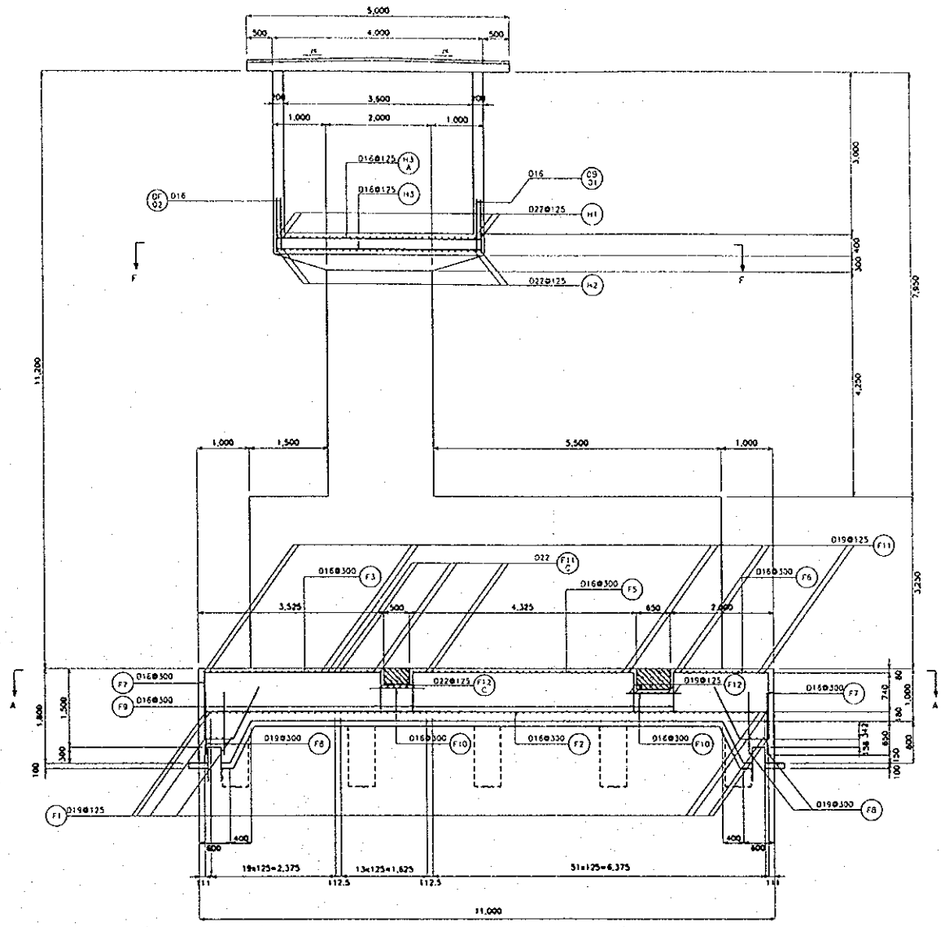
SECTION B–B
SCALE A

Note :
This drawing only shows the reinforcing Bar Arrangements for left side pier/column. However, same Reinforcing Bar Arrangements are applied for right side pier/column.

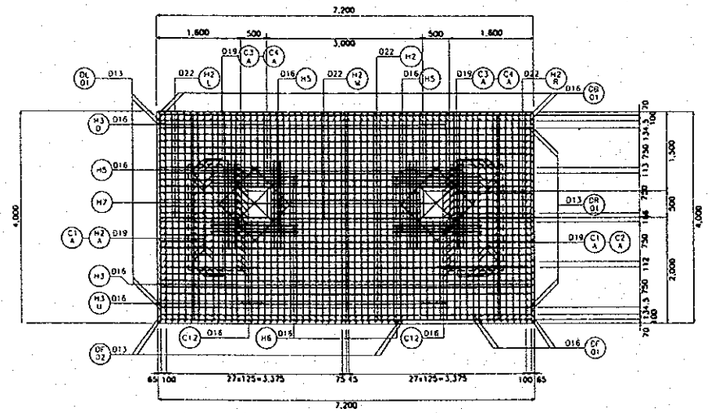
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.28 (1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	REINFORCING BAR ARRANGEMENT OF PIERS AND FOUNDATION (1/2)



SECTION C–C
SCALE A



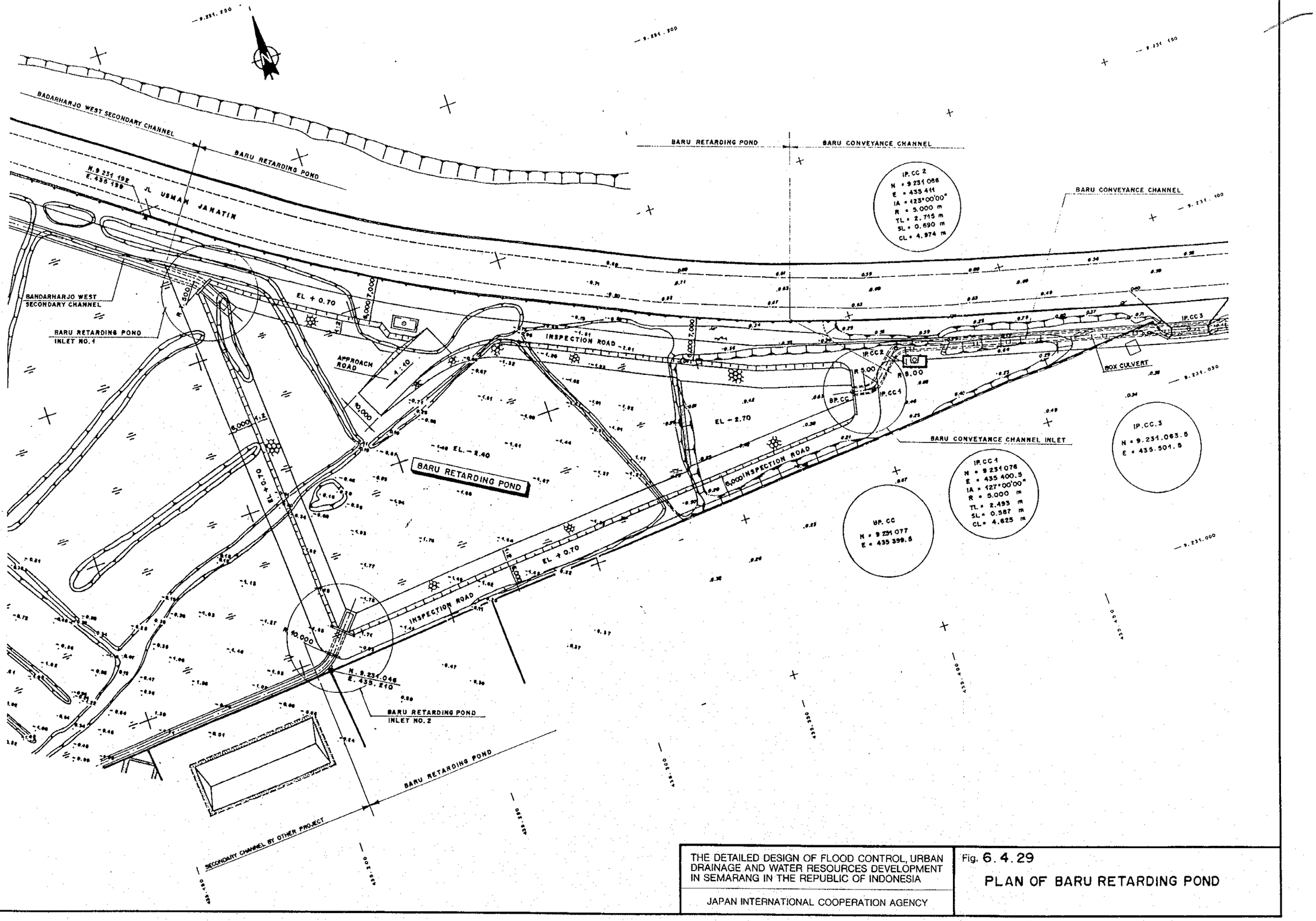
SECTION G–G
SCALE A



SECTION F–F
SCALE A

SCALE A 0 1m 5m

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.28 (2/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	REINFORCING BAR ARRANGEMENT OF PIERS AND FOUNDATION (2/2)

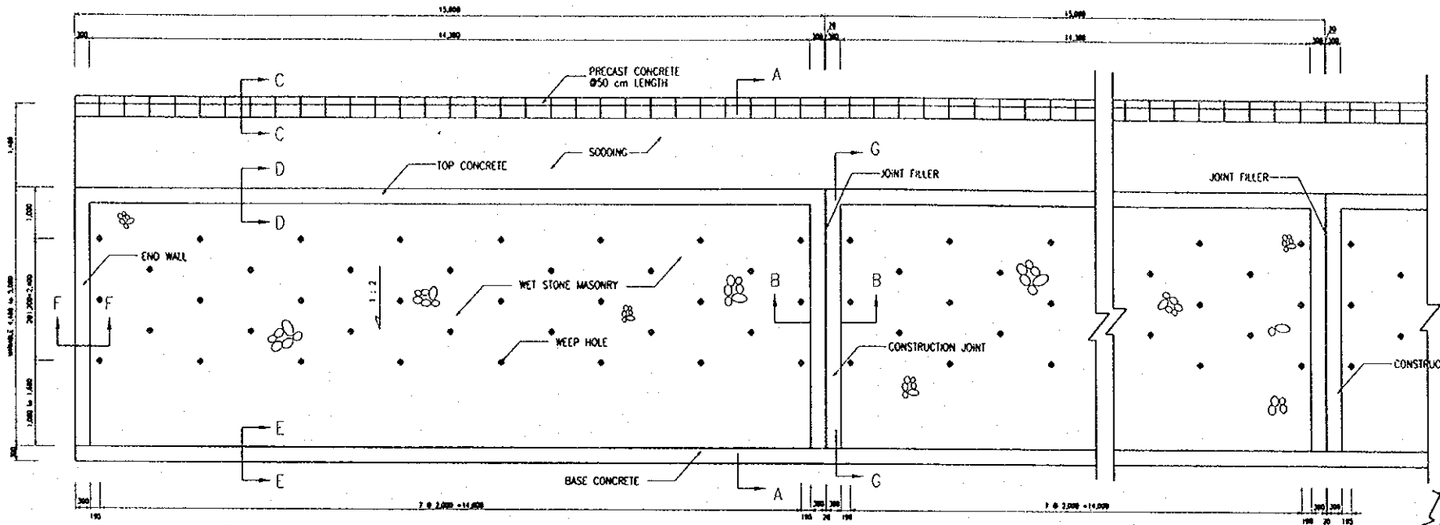


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

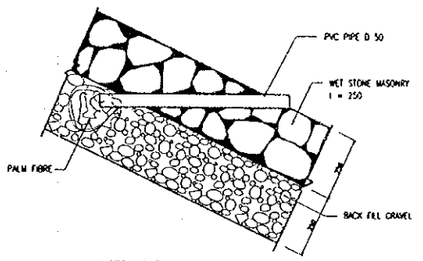
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.4.29

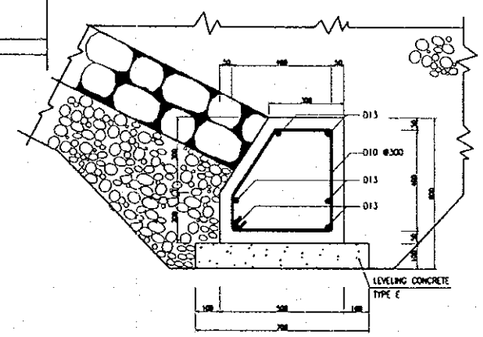
PLAN OF BARU RETARDING POND



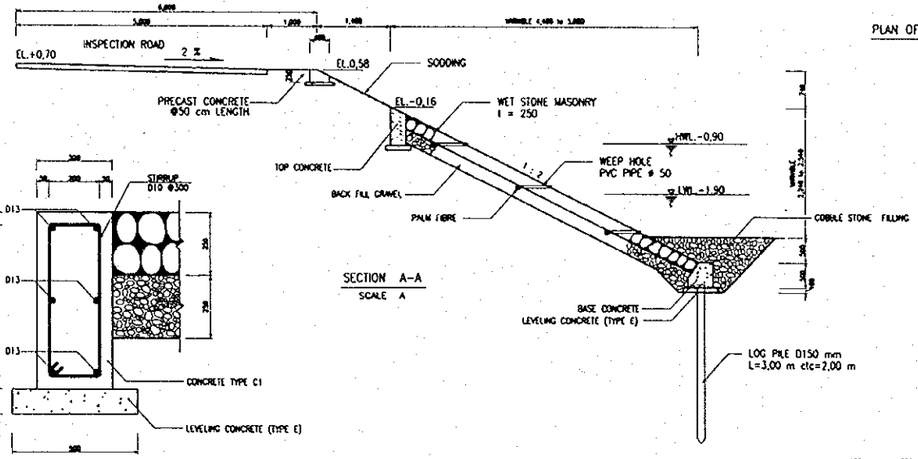
PLAN OF WET MASONRY REVETMENT, TYPE A-4
SCALE A



WEEP HOLE
SCALE C

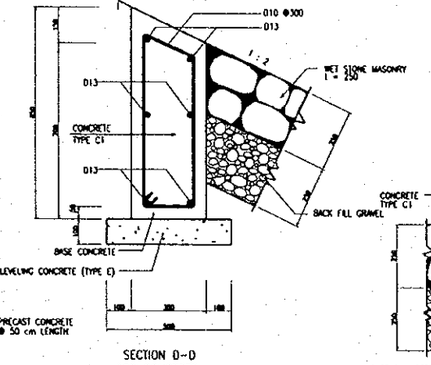


SECTION E-E
BASE CONCRETE
SCALE C

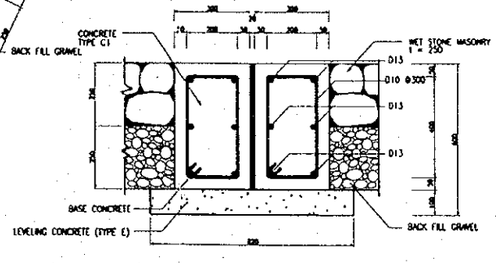


SECTION A-A
SCALE A

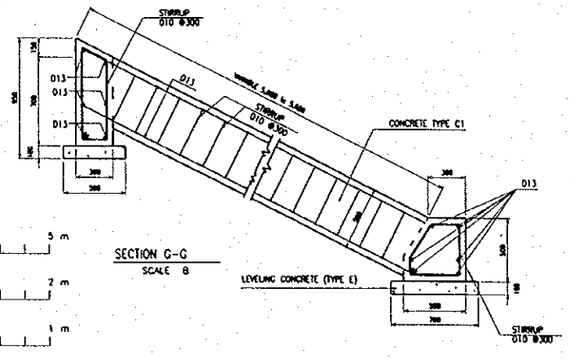
SECTION F-F
END WALL
SCALE C



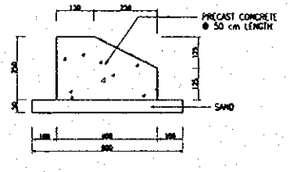
SECTION D-D
TOP CONCRETE
SCALE C



SECTION B-B
CONSTRUCTION JOINT
SCALE C



SECTION G-G
SCALE B



SECTION C-C
PRECAST CONCRETE
SCALE C

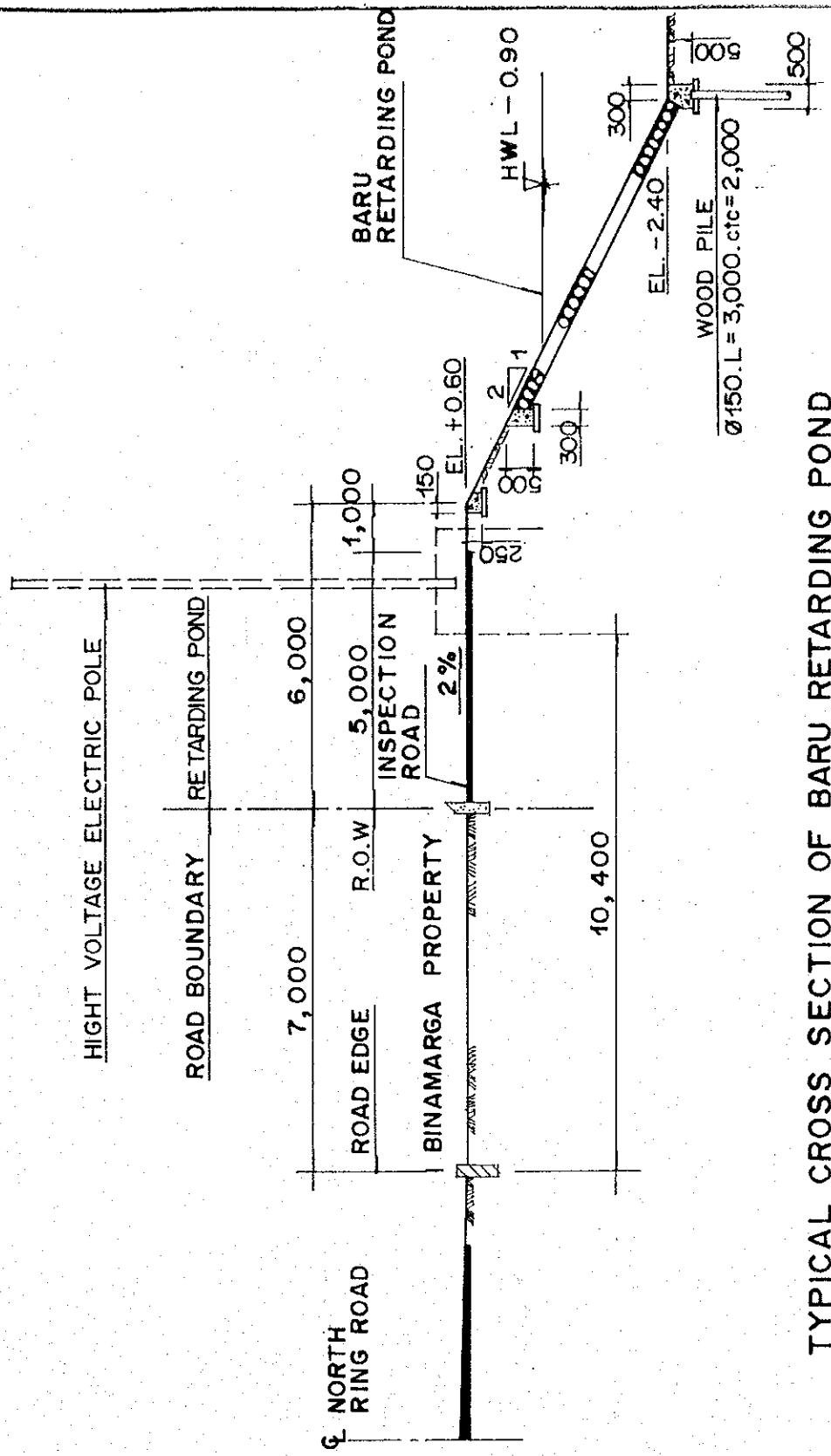
SCALE A 0 1 2.5 5 m
SCALE B 0 1 2 m
SCALE C 0 0.1 0.5 1 m

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

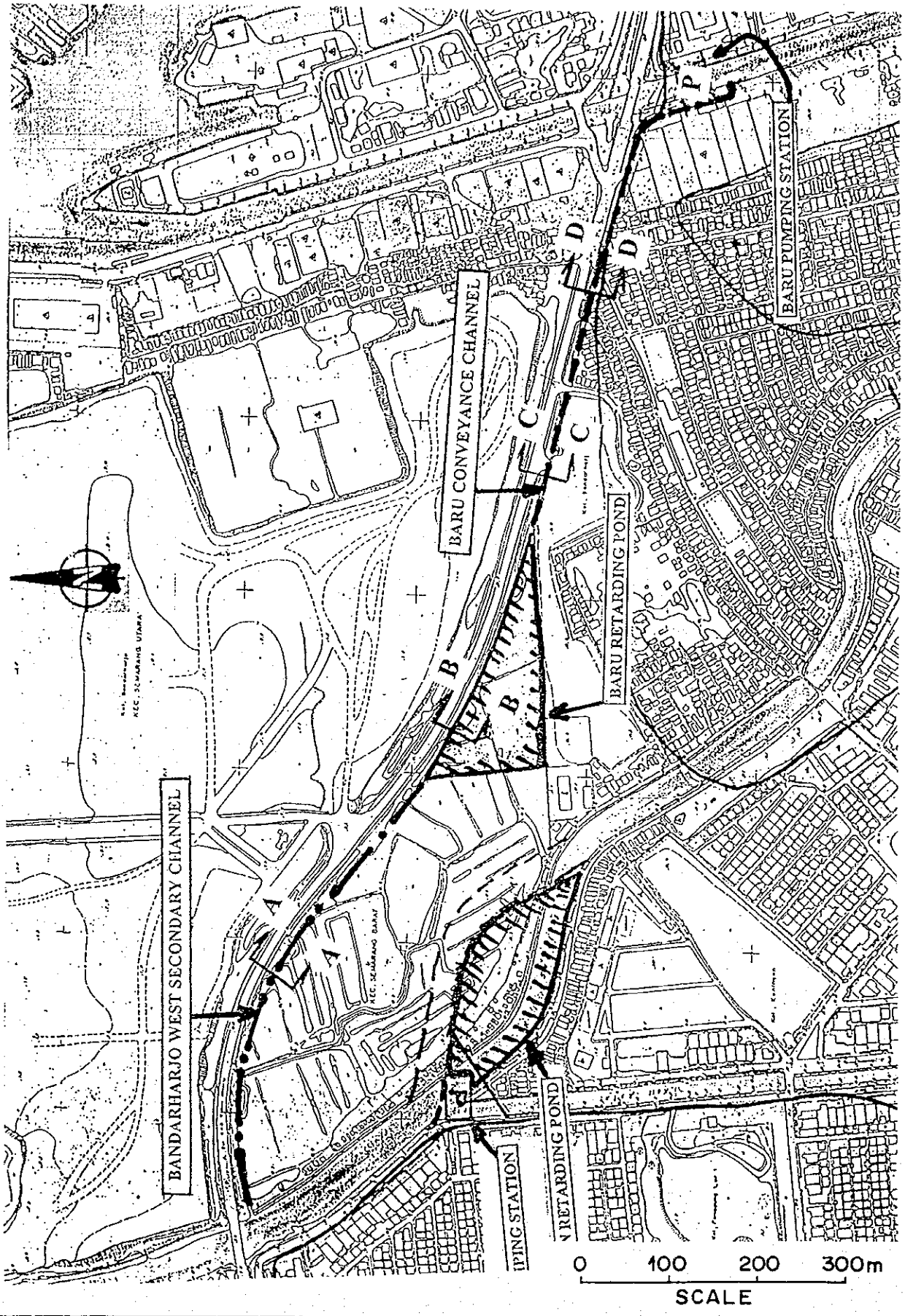
Fig. 6.4.30

REVETMENT OF BARU RETARDING POND



TYPICAL CROSS SECTION OF BARU RETARDING POND
(SECTION B - B , refer to Fig. 2.3.48)

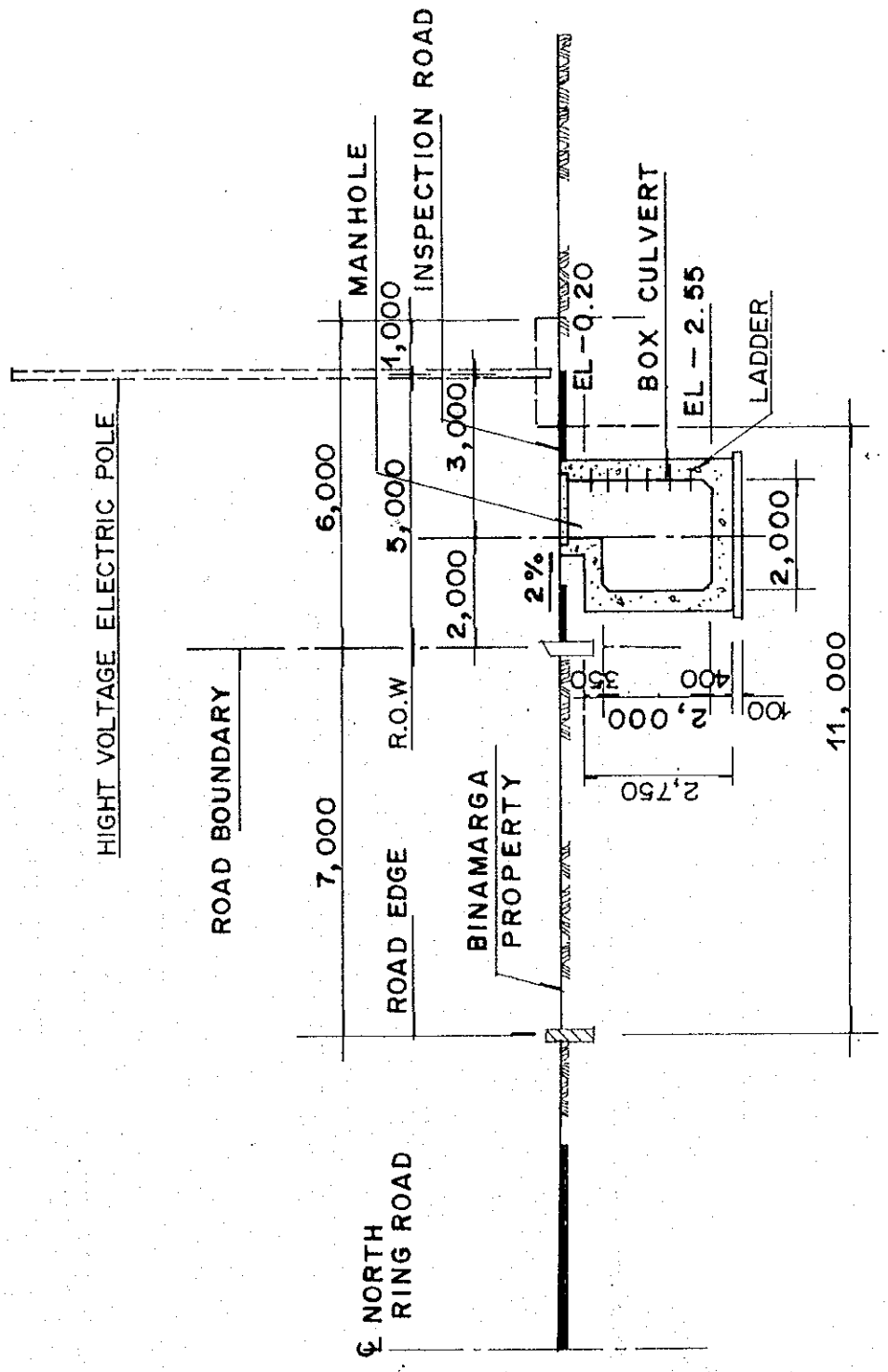
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig 6.4.31 CROSS SECTION OF BARU RETARDING POND
JAPAN INTERNATIONAL COOPERATION AGENCY	



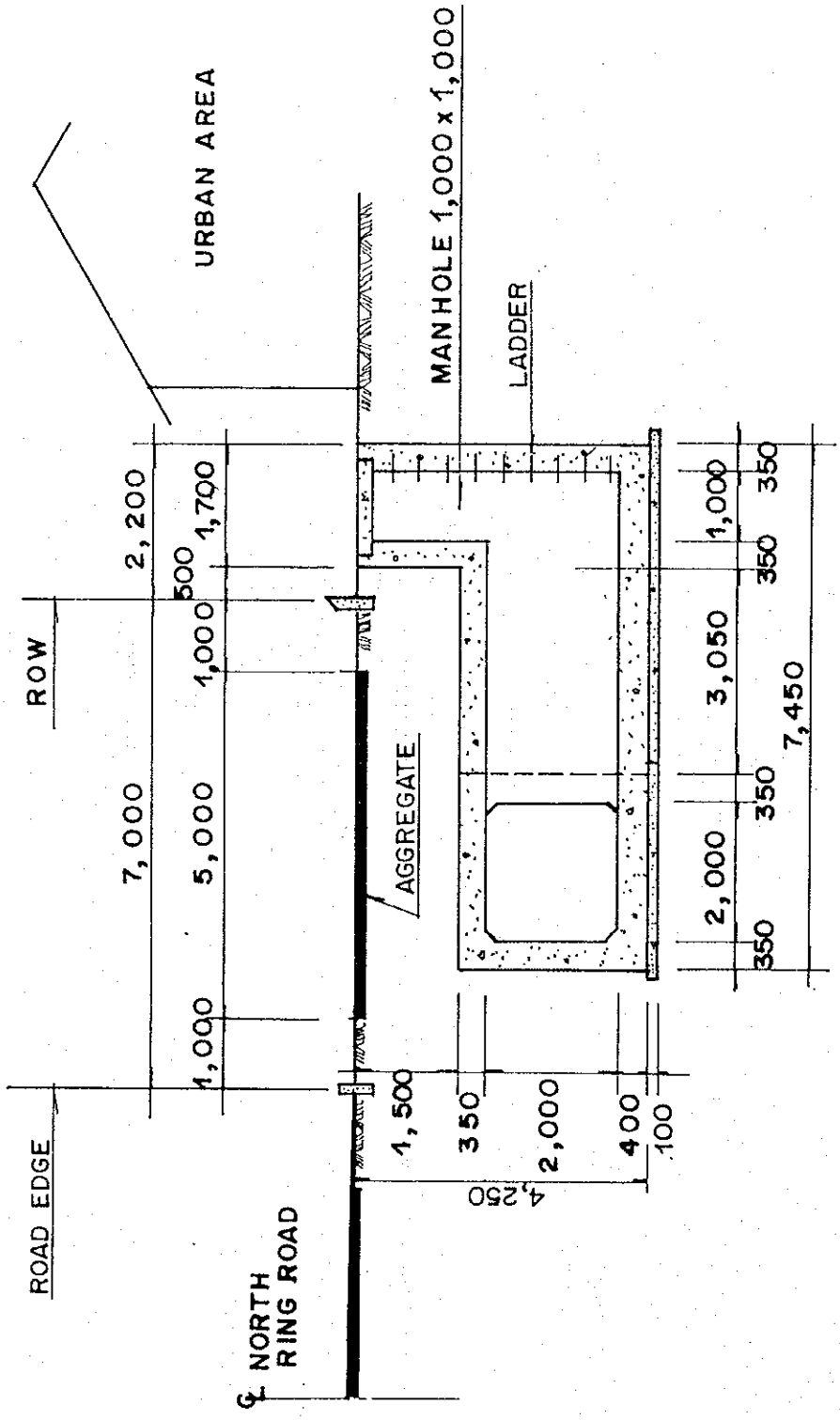
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.4.32
LOCATION OF BARU CONVEYANCE CHANNEL



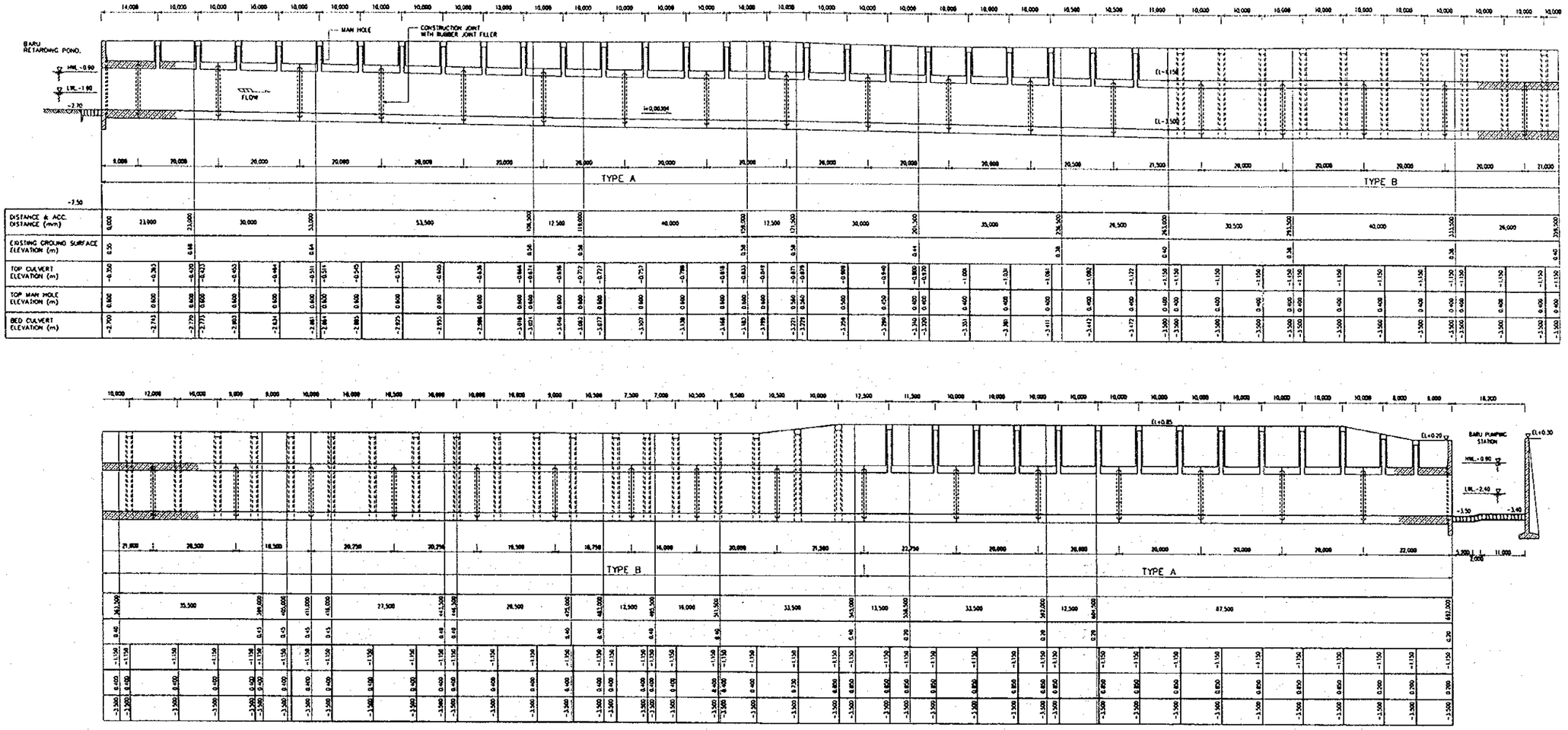
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	FIG. 6.4.33(1/2) CROSS SECTION OF BARU CONVEYANCE CHANNEL
JAPAN INTERNATIONAL COOPERATION AGENCY	

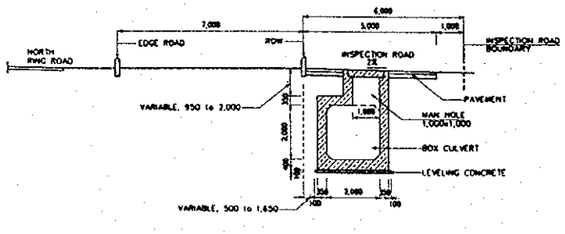


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

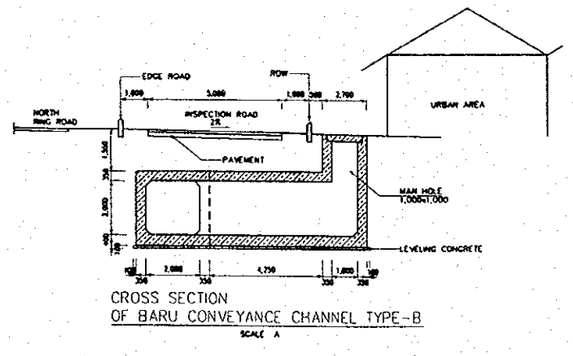
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.4.33(2/2)
CROSS SECTION OF BARU CONVEYANCE CHANNEL





CROSS SECTION
OF BARU CONVEYANCE CHANNEL TYPE-A
SCALE A

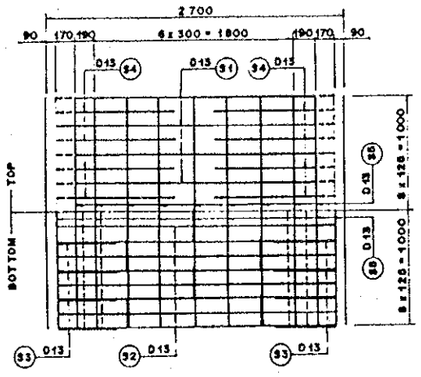


CROSS SECTION
OF BARU CONVEYANCE CHANNEL TYPE-B
SCALE A

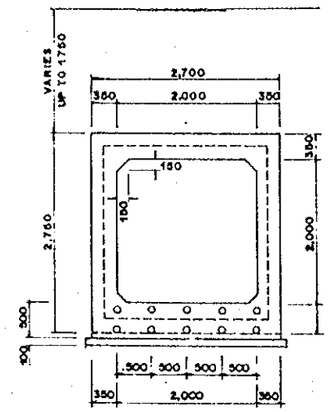
LONGITUDINAL SECTION OF BARU CONVEYANCE CHANNEL
SCALE V
SCALE H

SCALE V 0 1 5 10 m
SCALE H 0 5 25 50 m
SCALE A 0 1 5 10 m

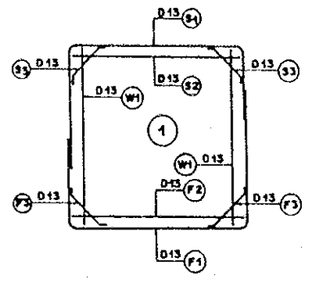
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.34
JAPAN INTERNATIONAL COOPERATION AGENCY	LONGITUDINAL PROFILE AND CROSS SECTION OF BARU CONVEYANCE CHANNEL

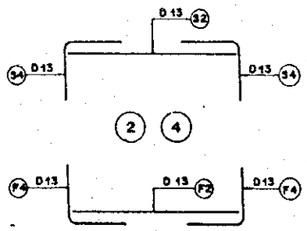


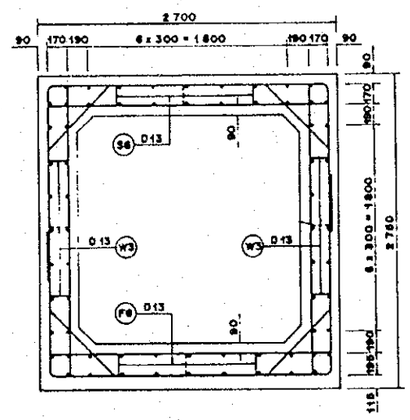
TOP SLAB
SCALE B



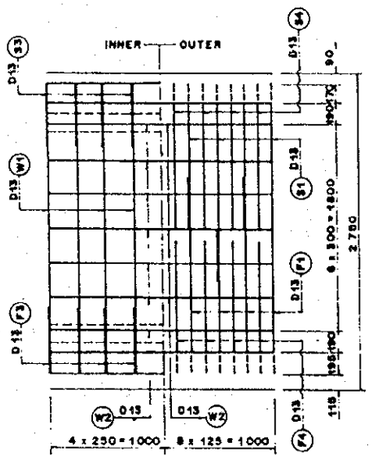
GENERAL CROSS SECTION
SCALE A



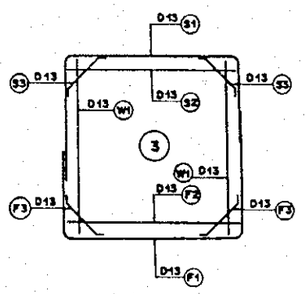




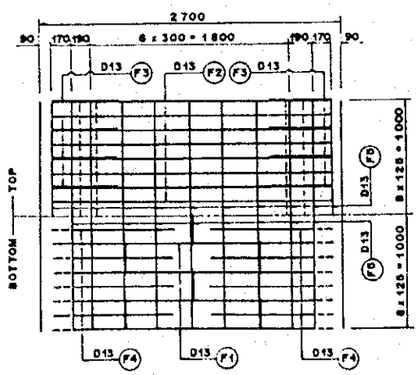
CROSS SECTION
SCALE B



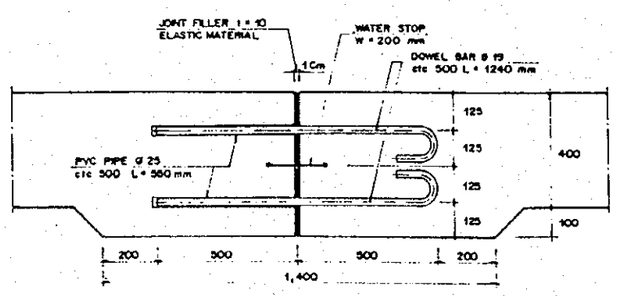
SIDE WALL
SCALE B



BAR LAY OUT
SCALE A



BOTTOM SLAB
SCALE B



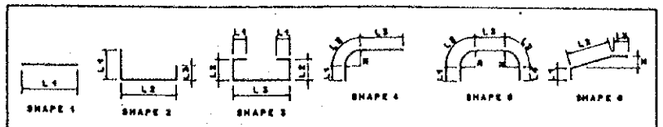
DETAIL OF JOINTING
SCALE C

SCALE A 1 : 40 — 0, 0.8, 1.6, 2.4, 3.2, 4.0 m

SCALE B 1 : 25 — 0, 0.5, 1.0, 1.5, 2.0, 2.5 m

SCALE C 1 : 10 — 0, 0.2, 0.4, 0.6, 0.8, 1.0 m

BAR BENDING SCHEDULE

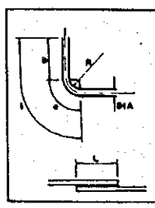


TYPE	SHAPE	DIA	NUMBER	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	R (mm)
S1	6	D13	4	5380	1875	220	2240	1120		140
S2	1	D13	8	2520	2520					
S3	6	D13	8	970	100	766	100		643	
S4	4	D13	8	2300	1116	220	957			140
S5	1	D13	20	1000	1000					
S6	3	D13	8	870	100	196	276			
W1	1	D13	8	2550	2545					
W2	1	D13	28	1000	1000					
W3	2	D13	12	400	100	196	100			
F1	6	D13	4	5430	1145	220	2240	1600		140
F2	1	D13	8	2520	2520					
F3	6	D13	8	1010	100	803	100		568	
F4	4	D13	8	2240	1071	220	941			140
F5	1	D13	20	1000	1000					
F6	3	D13	8	920	100	221	276			

BAR WEIGHT

TYPE	DIA	LENGTH (mm)	NUMBER	WEIGHT PER M (kgf/m)	WEIGHT PER BAR (kgf)	WEIGHT (kgf)	SHAPE
S1	D13	5380	4	1.040	5.595	22.381	
S2	D13	2520	8	1.040	2.621	20.966	
S3	D13	970	8	1.040	1.009	8.072	
S4	D13	2300	8	1.040	2.392	19.136	
S5	D13	1000	20	1.040	1.040	20.800	
S6	D13	870	8	1.040	0.905	5.428	
W1	D13	2550	8	1.040	2.652	21.216	
W2	D13	1000	28	1.040	1.040	29.120	
W3	D13	400	12	1.040	0.416	4.992	
F1	D13	5430	4	1.040	5.647	22.589	
F2	D13	2520	8	1.040	2.621	20.966	
F3	D13	1010	8	1.040	1.050	8.403	
F4	D13	2240	8	1.040	2.330	18.637	
F5	D13	1000	20	1.040	1.040	20.800	
F6	D13	920	6	1.040	0.957	5.741	

BAR BENDING DETAIL

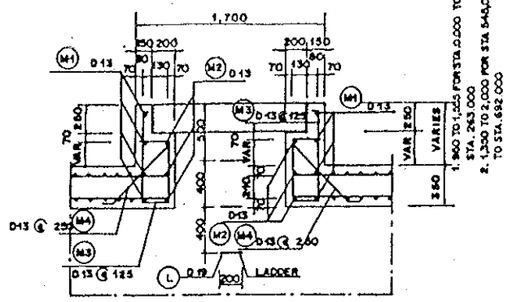


DIA	a	b	l	R	OVERLAP L	OVERLAP WEIGHT(Kgf)
D13	66	156	222	42	455	0.473
D16	75	193	268	48	660	0.885
D19	94	236	330	60	885	1.483
D22	104	272	376	66	770	2.295
D25	122	306	428	78	875	3.369
D29	141	349	490	90	1015	5.268
D32	151	385	536	96	1120	7.067

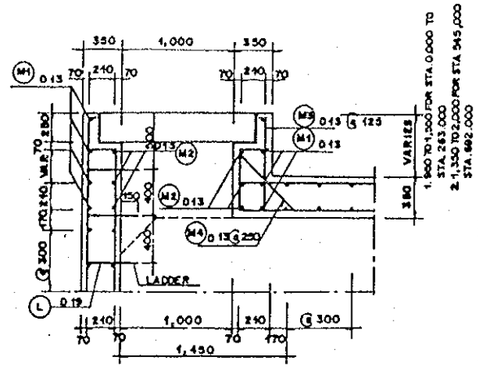
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

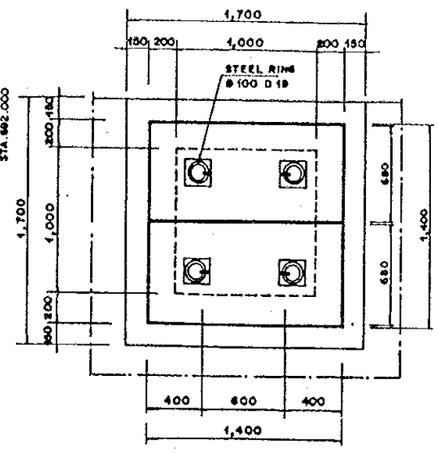
Fig. 6.4.35
REINFORCING BAR ARRANGEMENT OF BARU CONVEYANCE CHANNEL (STANDARD SECTION)



SECTION A-A
SCALE B

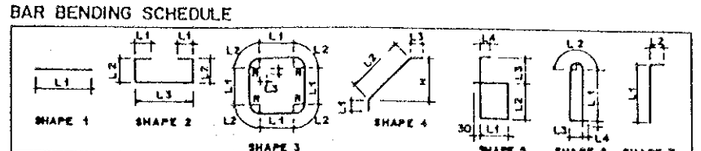


SECTION C-C
SCALE B



DETAIL OF COVER
SCALE C

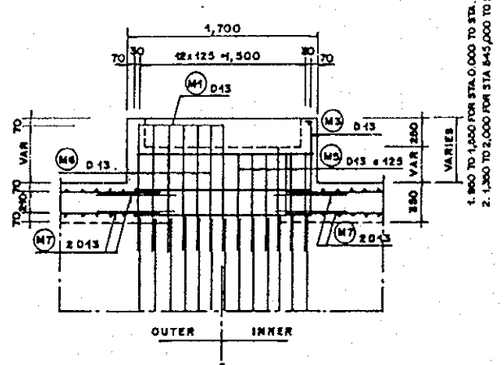
BAR BENDING SCHEDULE



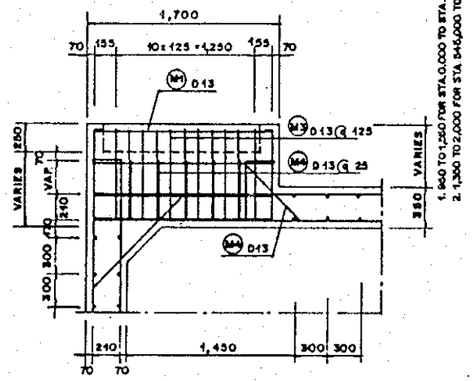
TYPE	SHAPE	DIA	NUMBER	LENGTH	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	R (mm)	REMARK
M1	3	13	6	6,440	1,254	220	60			140	FOR STA. 0.000 TO 263.000
M1	3	13	7	6,440	1,254	220	50			140	FOR STA. 545.000 TO STA. 692.000
M2	3	13	3	4,760	1,000	110	50			70	
M3	5	13	33	2,440	210	846	250	50			FOR STA. 0.000 TO STA. 263.000
M3	5	13	33	3,800	210	1,026	250	50			FOR STA. 545.000 TO STA. 692.000
M4	4	13	15	1,260	100		100		746		
M5	7	13	13	1,095	853	240					
M6	7	13	13	1,210	1,160	80					
M7	1	13	4	875	875						
M8	1	13	4	1,200	1,200						
C1	2	19	7	1,780	100	190	1,280				
C2	1	13	4	1,320	320						
C3	1	13	5	610	610						
C4	2	13	5	610	610						
C5	6	19	2	770	200	186	120	30		60	
L	2	19	7	1,150	50	426	200				

BAR WEIGHT

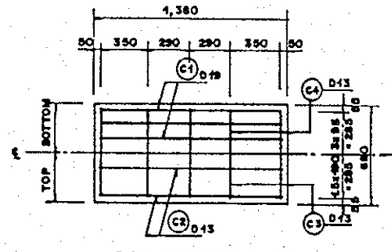
TYPE	DIA	LENGTH (mm)	NUMBER	WEIGHT/M (kgf/m)	WEIGHT/BAR (kgf)	WEIGHT (kgf)	SHAPE	REMARK
M1	13	6,440	6	1.040	6.698	40.188	3	FOR STA. 0.000 TO STA. 263.000
M1	13	6,440	7	1.040	6.698	46.886	3	FOR STA. 545.000 TO STA. 692.000
M2	13	4,760	3	1.040	4.950	14.851	3	
M3	13	2,440	33	1.040	2.538	83.741	5	FOR STA. 0.000 TO STA. 263.000
M3	13	3,800	33	1.040	3.952	130.416	5	FOR STA. 545.000 TO STA. 692.000
M4	13	1,260	15	1.040	1.310	19.656	4	
M5	13	1,095	13	1.040	1.139	14.804	7	
M6	13	1,210	13	1.040	1.258	16.359	7	
M7	13	875	4	1.040	0.910	3.640	1	
M8	13	1,200	4	1.040	1.248	4.992	1	
C1	19	1,780	7	2.230	3.969	27.786	2	
C2	13	1,320	4	1.040	1.373	5.491	1	
C3	13	610	5	1.040	0.634	3.172	1	
C4	13	610	5	1.040	0.634	3.172	2	
C5	19	770	2	2.230	1.717	3.434	6	
L	19	1,150	7	2.230	2.565	17.953	2	



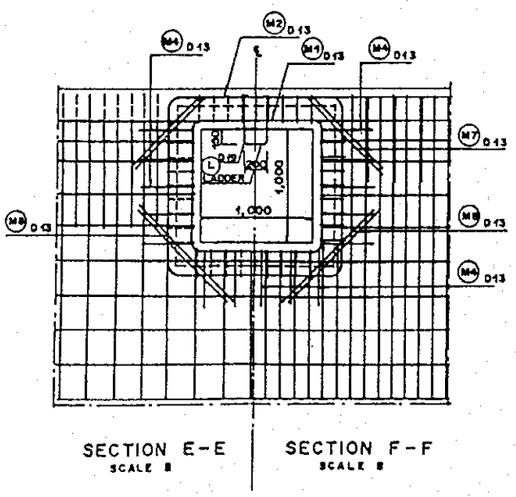
SECTION B-B
SCALE B



SECTION D-D
SCALE B

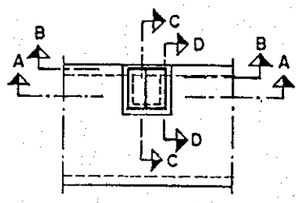


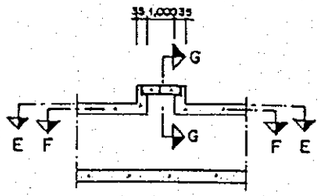
BAR ARRANGEMENT OF COVER
SCALE C



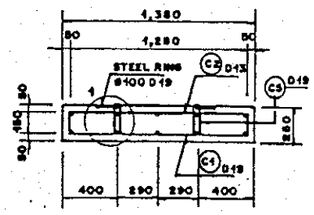
SECTION E-E
SCALE B

SECTION F-F
SCALE B



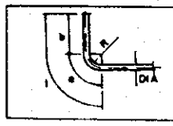


KEY PLAN
SCALE A

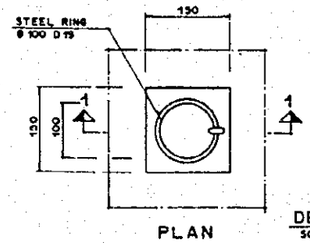


SECTION G-G
SCALE C

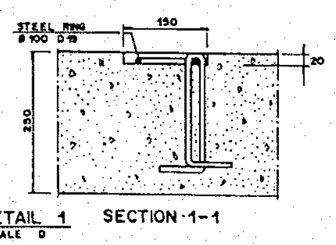
BAR BENDING DETAIL



DIA	a	b	l	R	OVERLAP L	OVERLAP WEIGHT (kg)
D13	66	156	222	42	455	0.473
D16	75	193	268	48	560	0.885
D19	94	236	330	60	665	1.483

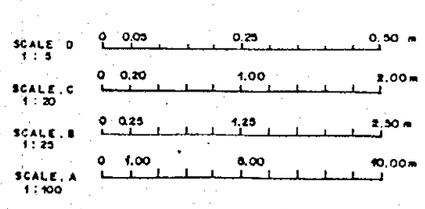


PLAN



DETAIL 1
SCALE D

SECTION 1-1

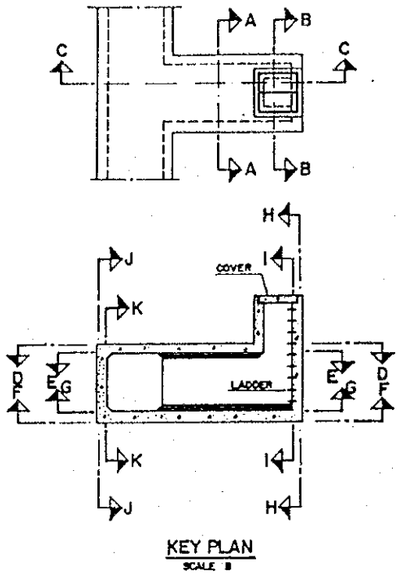


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

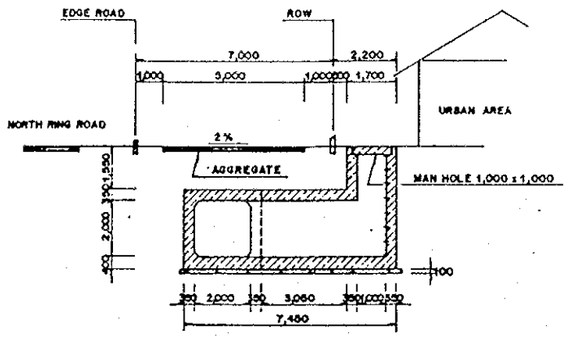
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.4.36 (1/2)

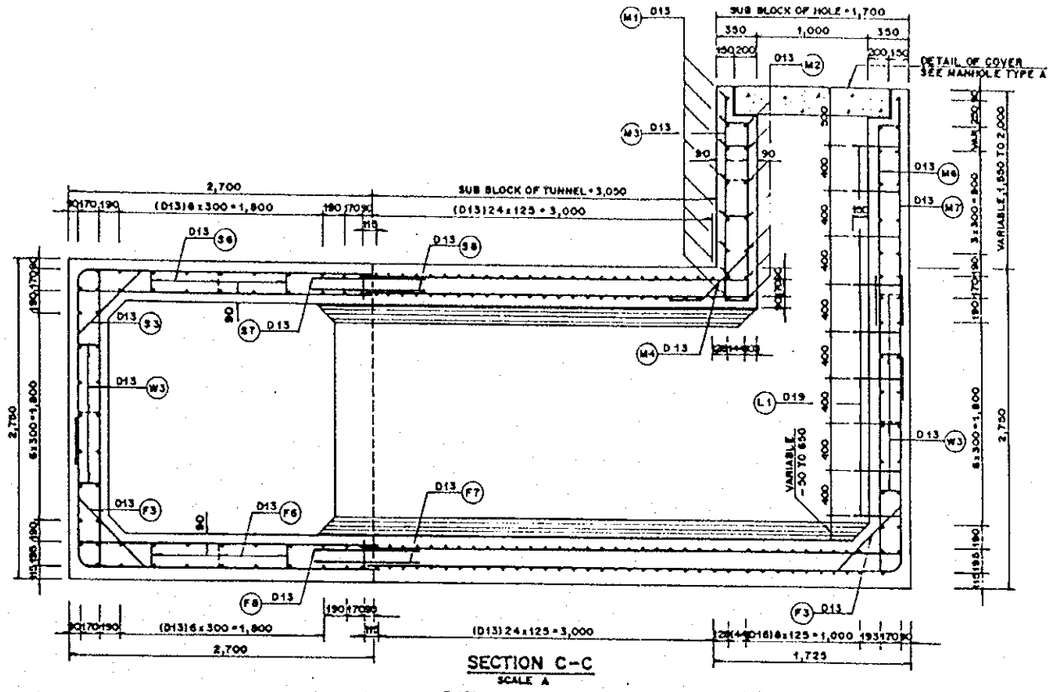
REINFORCING BAR ARRANGEMENT OF BARU CONVEYANCE CHANNEL (MANHOLE SECTION, TYPE A)



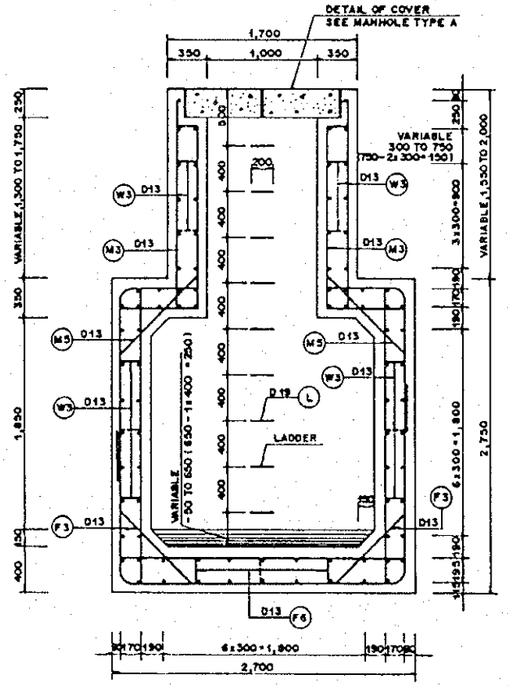
KEY PLAN
SCALE B



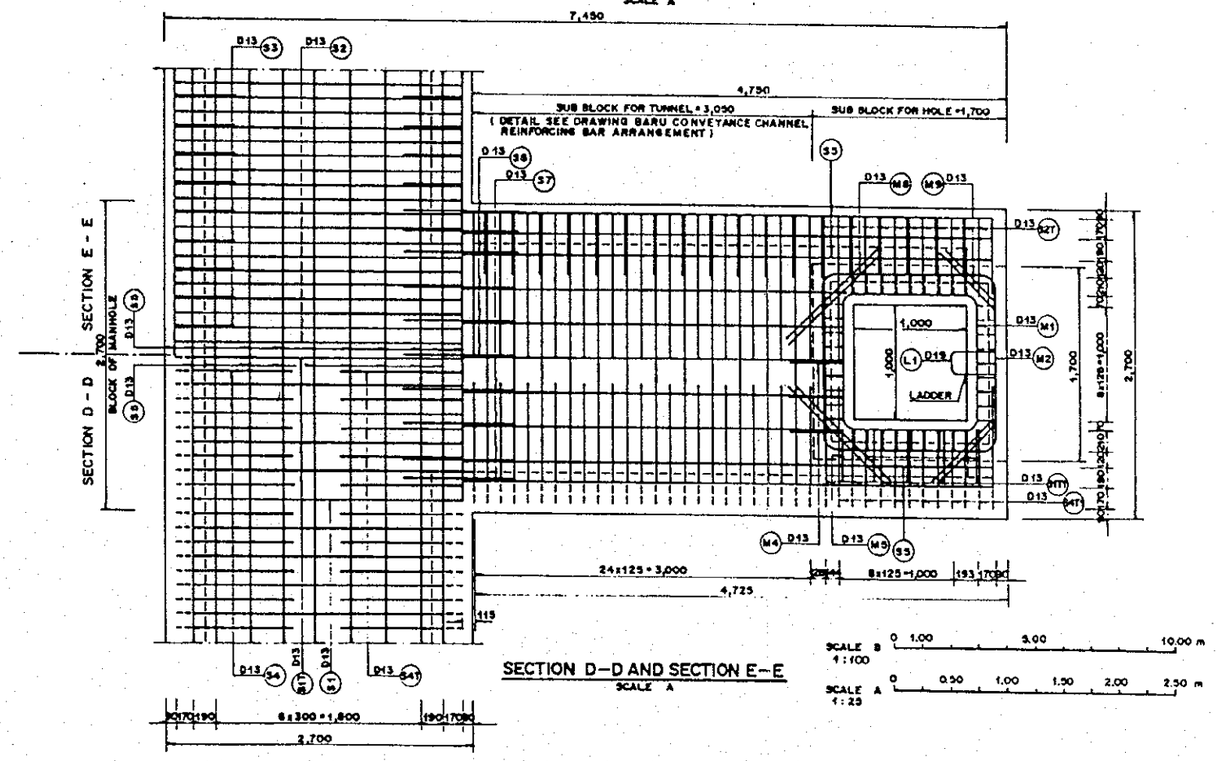
GENERAL CROSS SECTION
SCALE B



SECTION C-C
SCALE A



SECTION B-B
SCALE A



SECTION D-D AND SECTION E-E
SCALE A

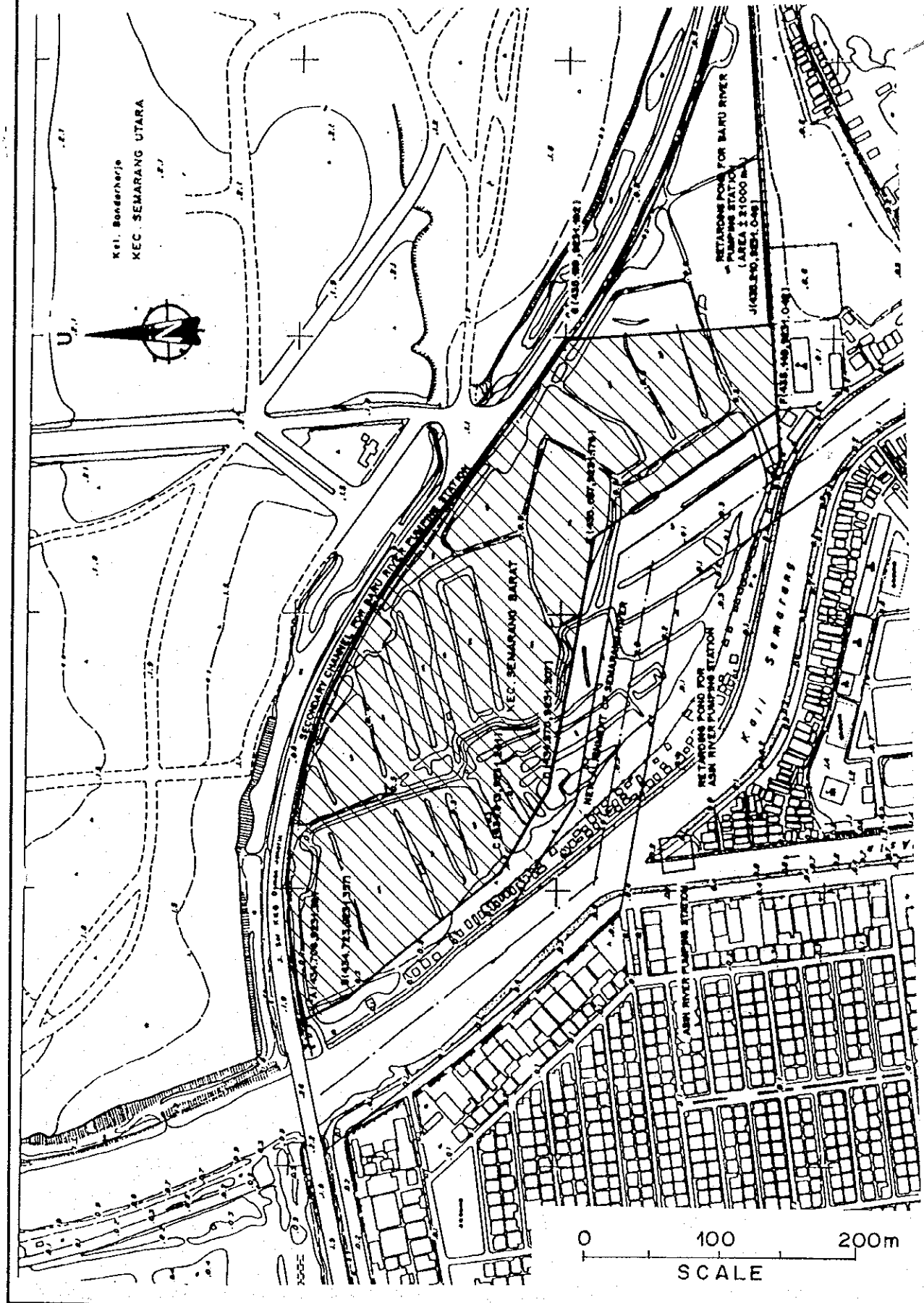
SCALE B 1:100
SCALE A 1:25

NOTE : 1. SECTION A-A, SEE DRAWING
"BARU COVEYANCE CHANNEL REINFORCING BAR ARRANGEMENT"
2. COVER, SEE DRAWING BARU CONVEYANCE CHANNEL
"MANHOLE TYPE A REINFORCING BAR ARRANGEMENT"

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

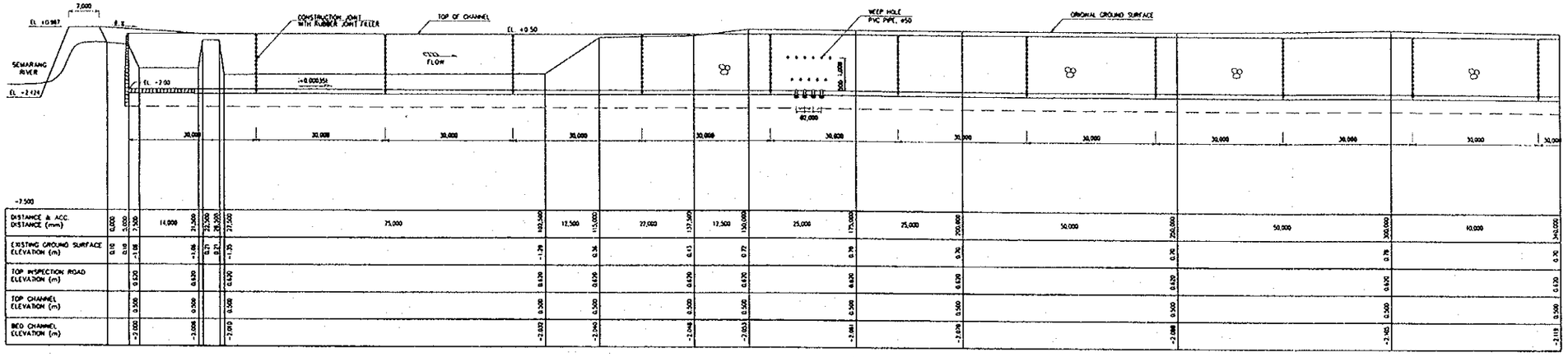
Fig. 6.4.36 (2/2)
REINFORCING BAR ARRANGEMENT OF BARU CONVEYACE CHANNEL (MANHOLE SECTION, TYPE B)

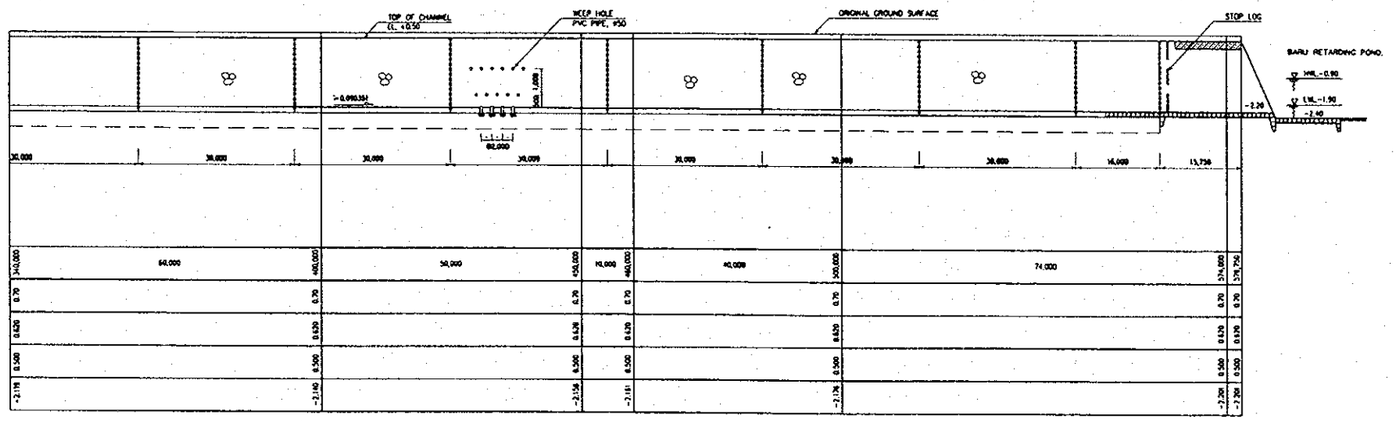


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

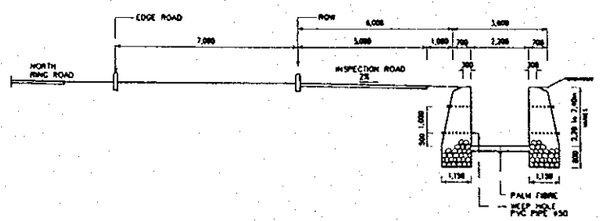
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.4.37
DRAINAGE AREA OF BANDARHARJO WEST SECONDARY CHANNEL

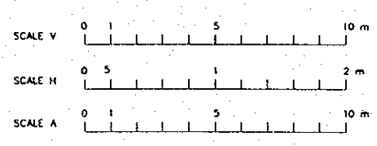




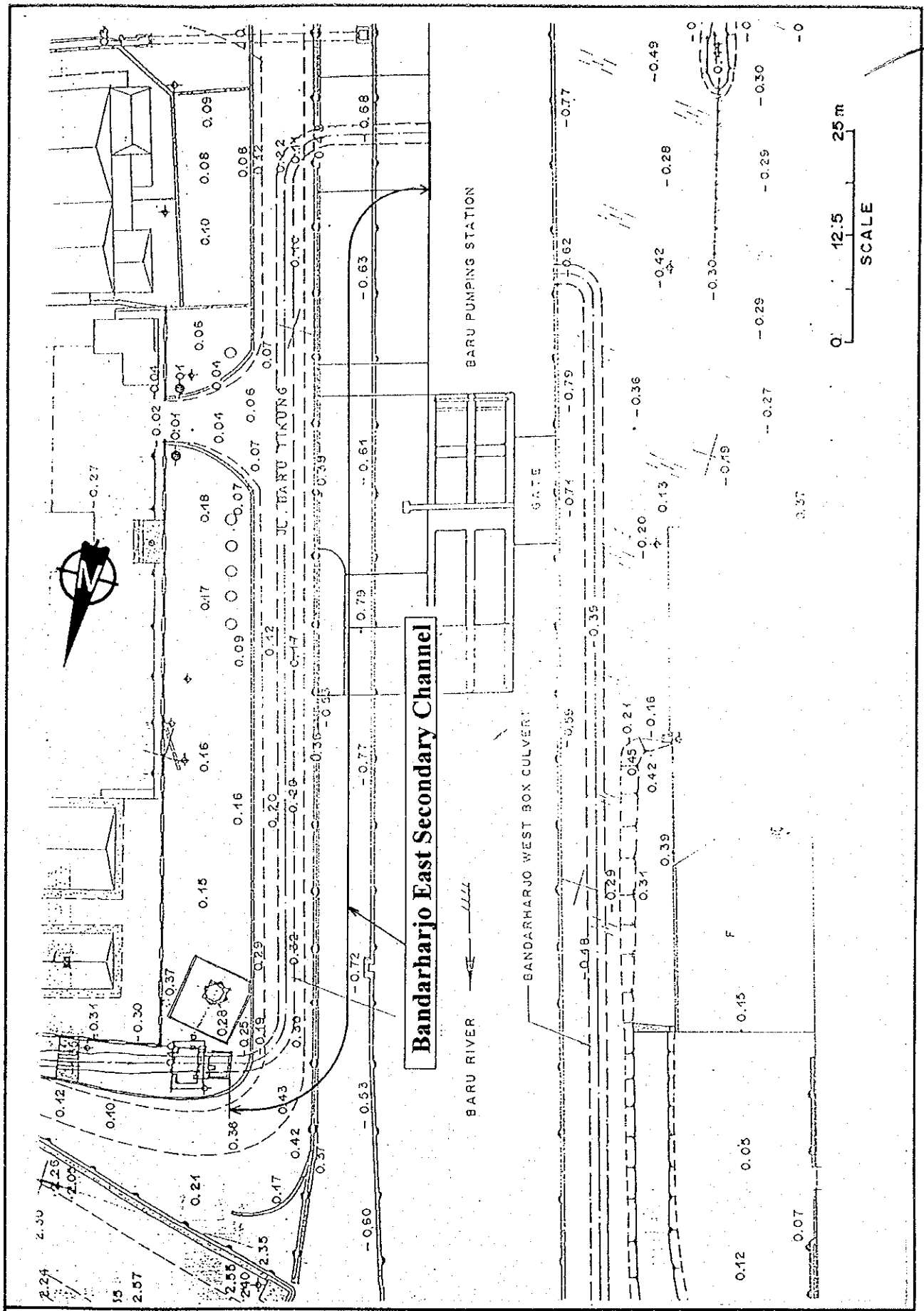
LONGITUDINAL SECTION
OF BANDARHARJO WEST SECONDARY CHANNEL
SCALE V
SCALE H



TYPICAL SECTION
OF BANDARHARJO SECONDARY CHANNEL
SCALE A



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.38
JAPAN INTERNATIONAL COOPERATION AGENCY	LONGITUDINAL PROFILE AND CROSSSECTION OF BANDARHARJO WEST SECONDARY CHANNEL

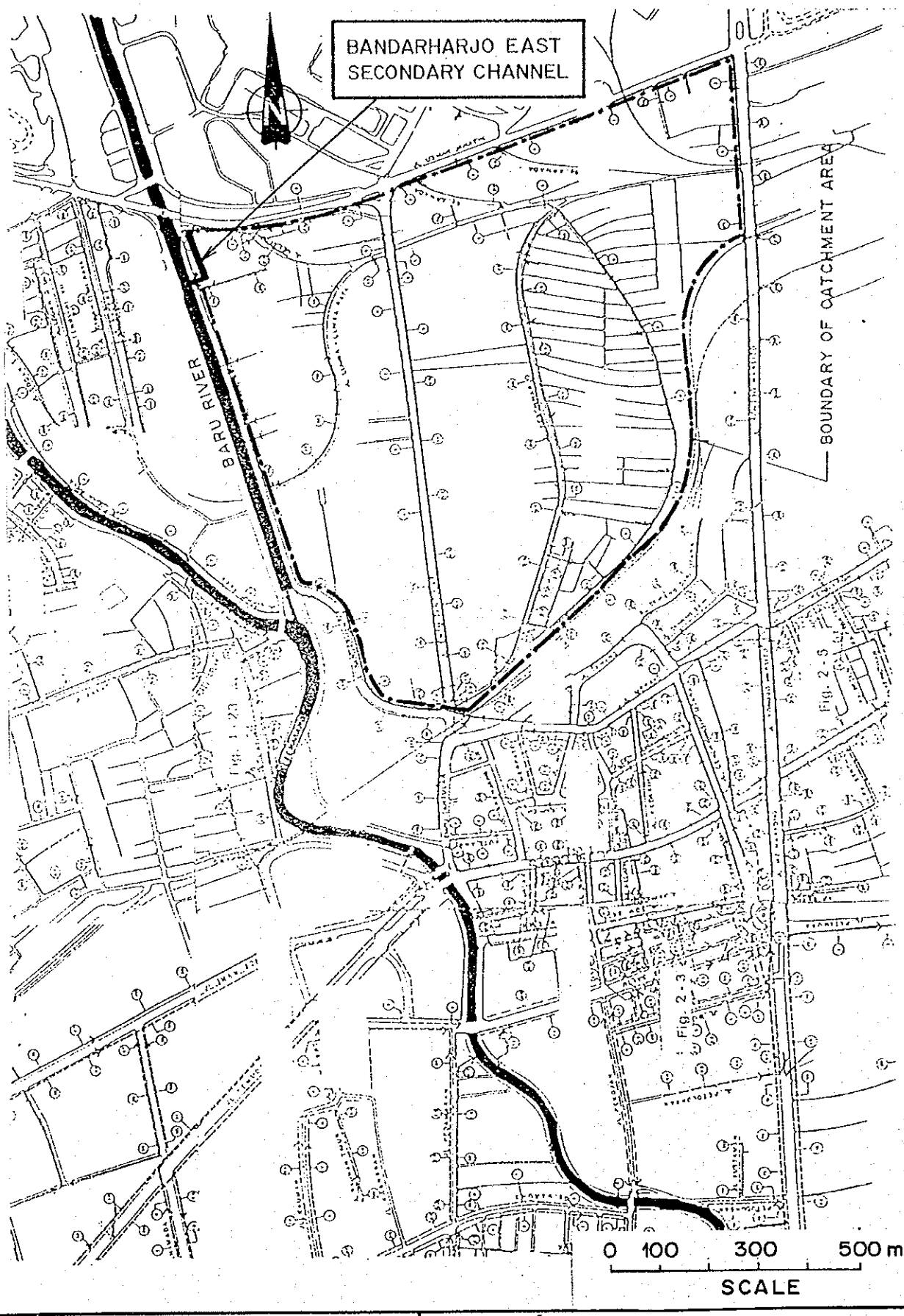


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.4.39

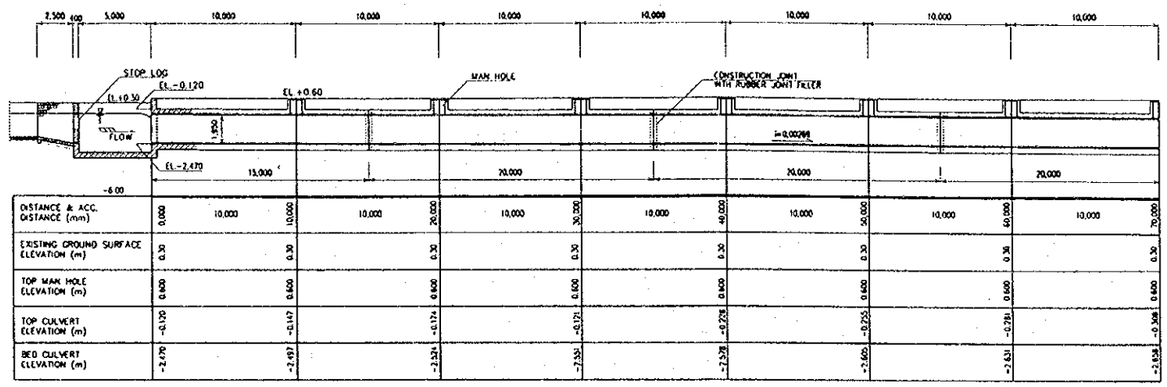
LOCATION OF BANDARHARJO EAST SECONDARY CHANNEL



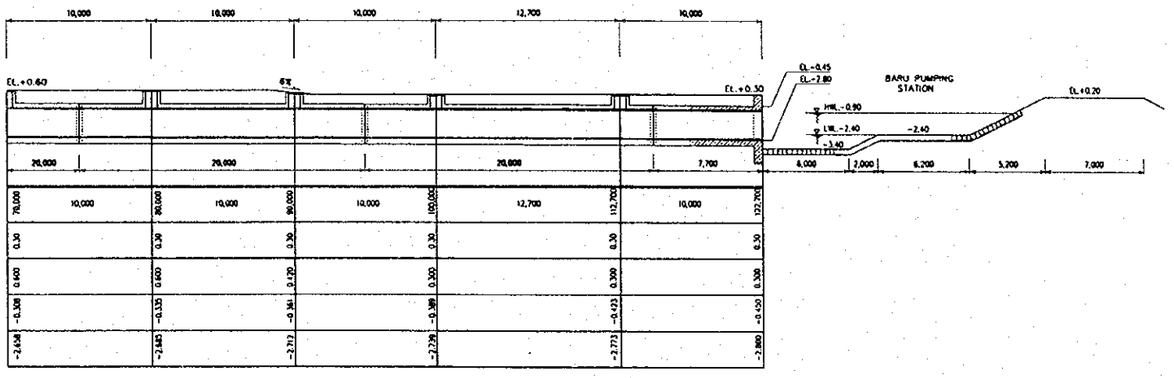
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.4.40
DRAINAGE AREA OF BANDARHARJO EAST SECONDARY CHANNEL

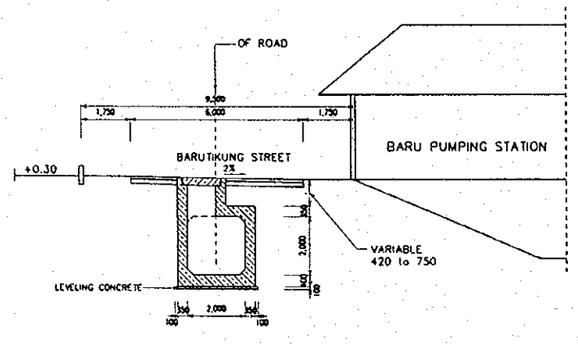


DISTANCE & ACC. DISTANCE (mm)	0.000	10,000	10,000	10,000	20,000	10,000	30,000	10,000	40,000	10,000	50,000	10,000	60,000	10,000	70,000
EXISTING GROUND SURFACE ELEVATION (m)	0.30		0.30		0.30		0.30		0.30		0.30		0.30		0.30
TOP MAN HOLE ELEVATION (m)	0.600		0.600		0.600		0.600		0.600		0.600		0.600		0.600
TOP CULVERT ELEVATION (m)	-0.120		-0.147		-0.174		-0.171		-0.278		-0.255		-0.281		-0.308
BED CULVERT ELEVATION (m)	-2.470		-2.497		-2.524		-2.551		-2.578		-2.605		-2.631		-2.658

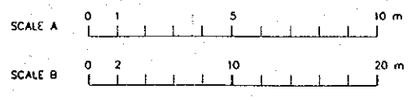


70,000	10,000	80,000	10,000	90,000	10,000	100,000	12,700	112,700	10,000	122,700
0.30		0.30		0.30		0.30		0.30		0.30
0.600		0.600		0.570		0.570		0.300		0.300
-0.308		-0.335		-0.361		-0.388		-0.423		-0.450
-2.658		-2.685		-2.712		-2.739		-2.773		-2.800

LONGITUDINAL SECTION
OF BANDARHARJO EAST SECONDARY CHANNEL
SCALE B



TYPICAL CROSS SECTION
OF BANDARHARJO EAST SECONDARY CHANNEL
SCALE A



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	Fig. 6.4.41
JAPAN INTERNATIONAL COOPERATION AGENCY	LONGITUDINAL PROFILE AND CROSS SECTION OF BANDARHARJO EAST SECONDARY CHANNEL