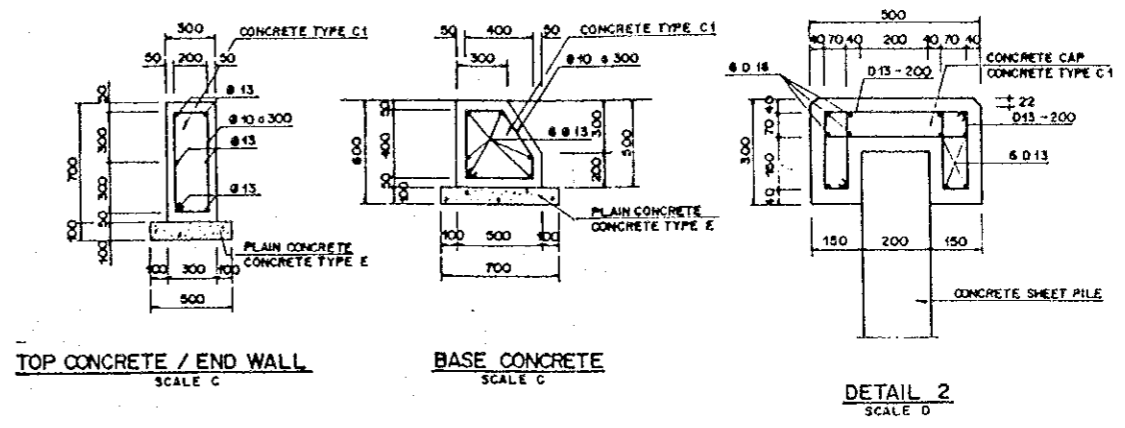


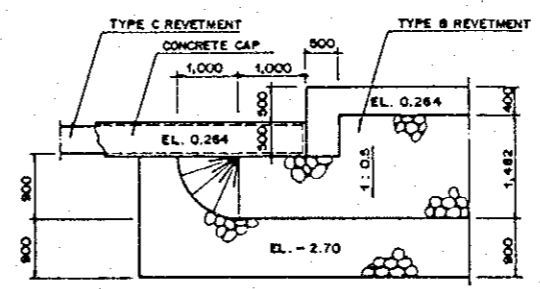
PLAN
SCALE A



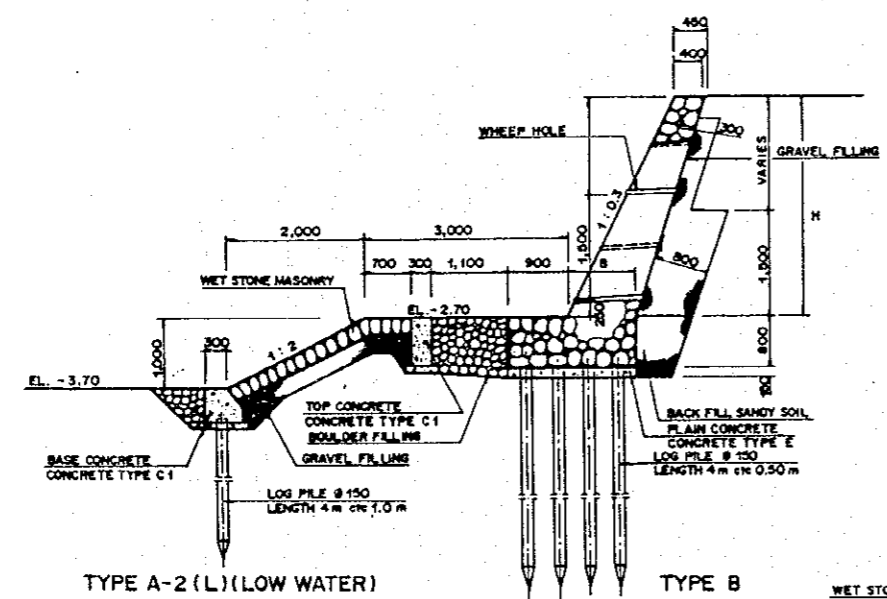
TOP CONCRETE / END WALL
SCALE C

BASE CONCRETE
SCALE C

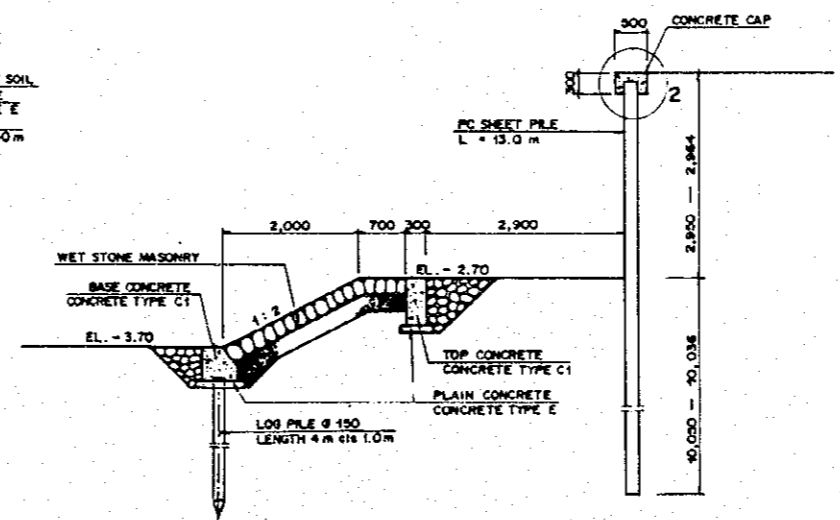
DETAIL 2
SCALE D



DETAIL 1
SCALE B



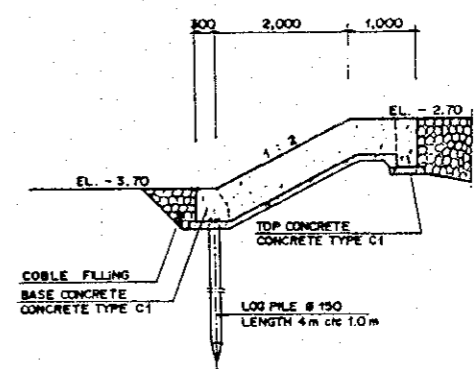
SECTION A - A
SCALE B



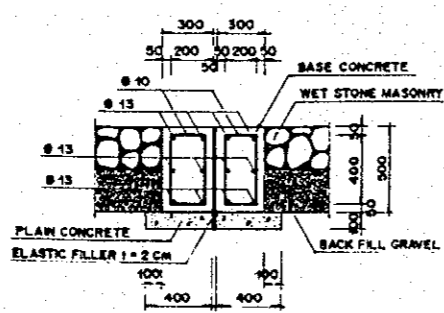
TYPE A-2(L) (LOW WATER)

TYPE C REVETMENT
(CONCRETE SHEET PILE)

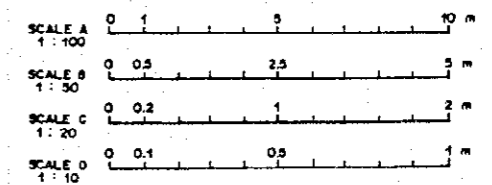
SCALE B



SECTION B - B
SCALE B

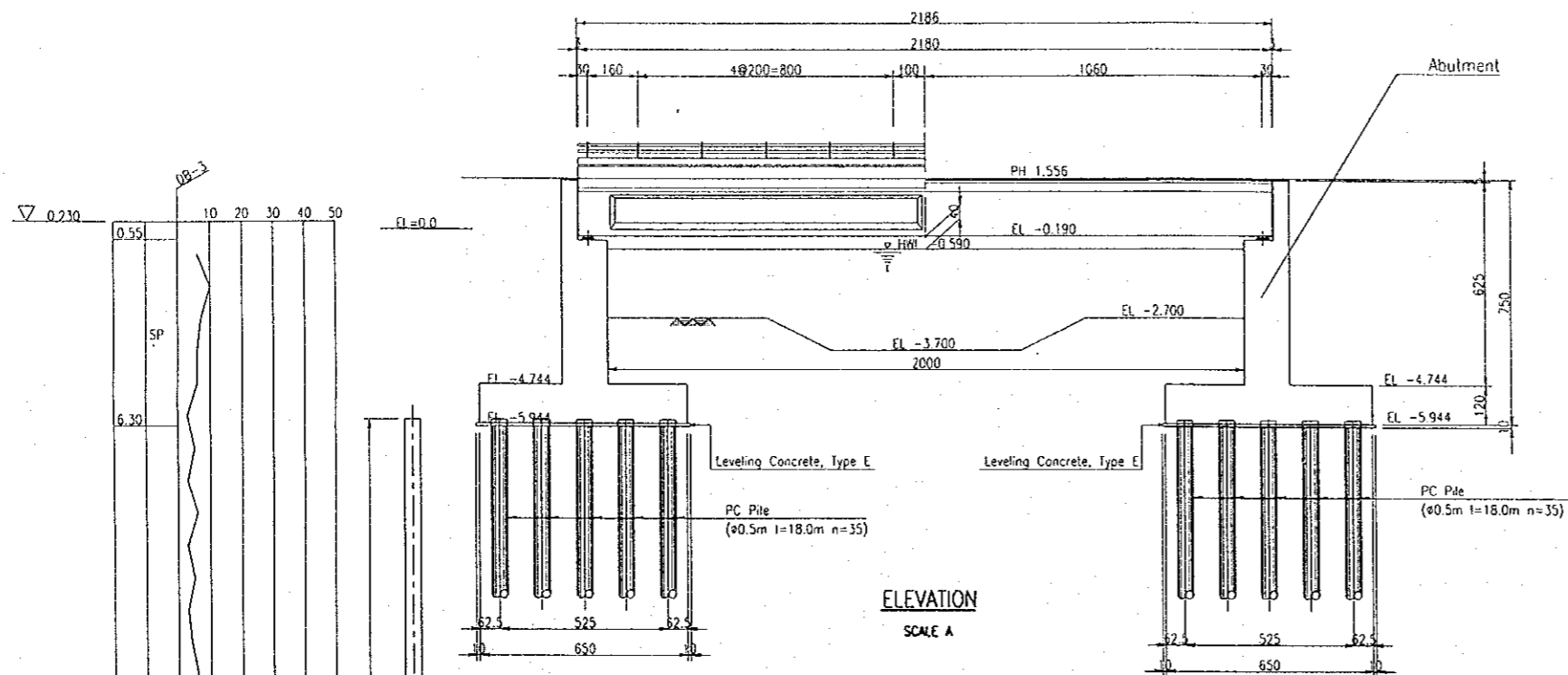


CONSTRUCTION JOINT
SCALE C

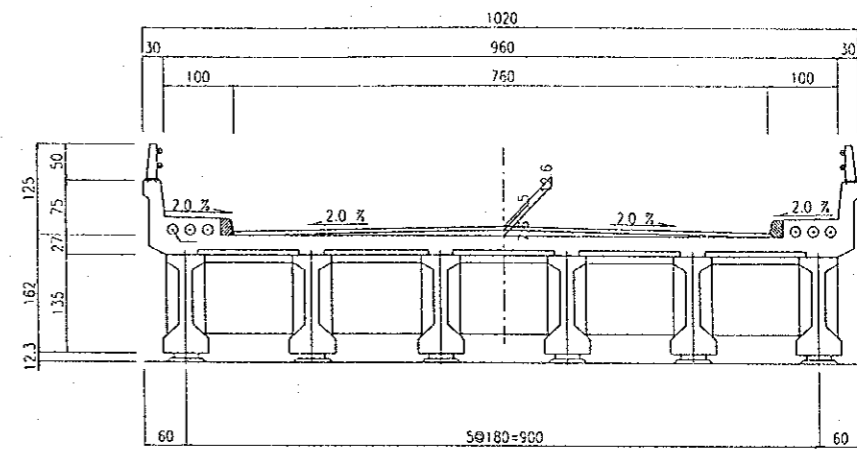


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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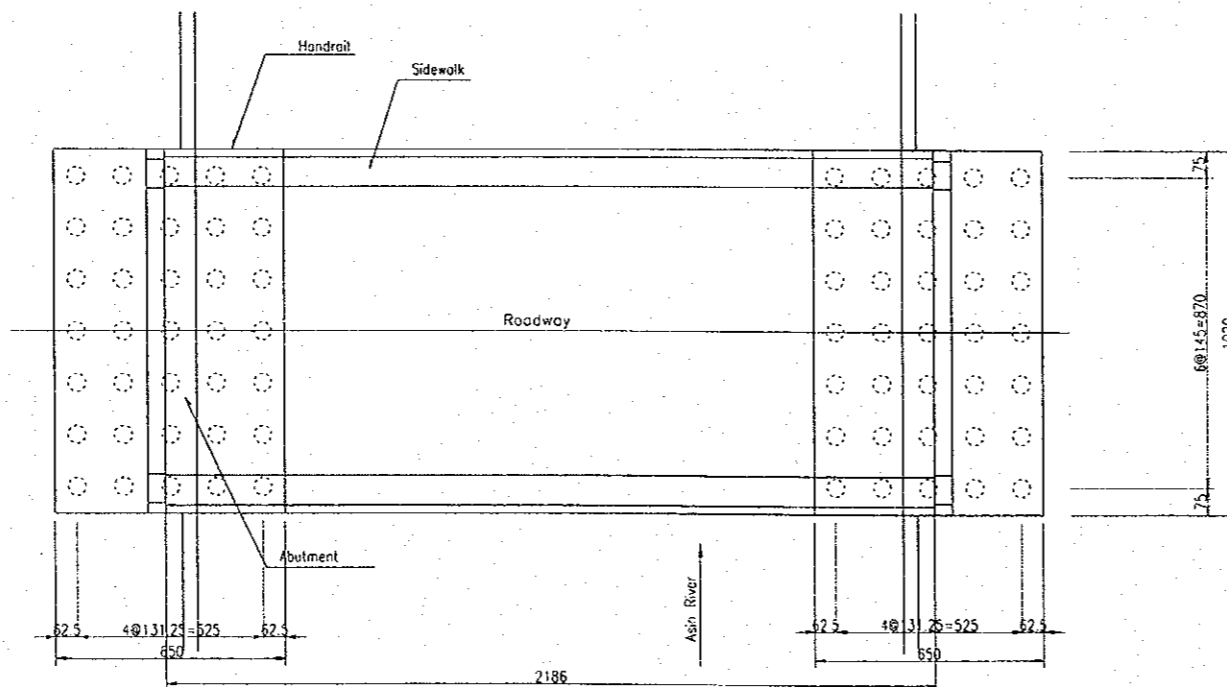
Fig. 6.3.8
ASIN RIVER REVETMENT



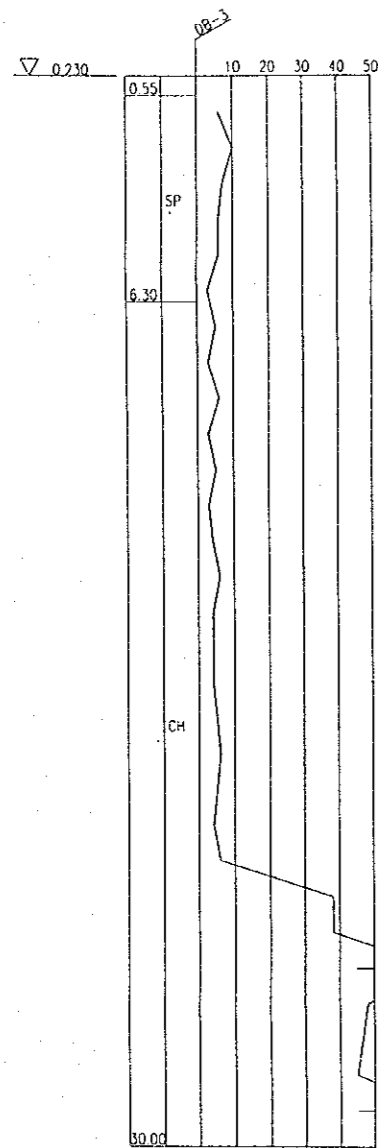
ELEVATION
SCALE A



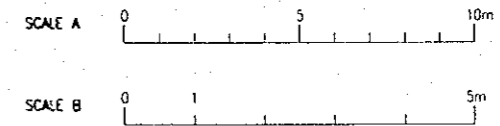
TYPICAL CROSS SECTION
SCALE B



PLAN
SCALE A



- Notes :
1. The dimension in cm
 2. The elevation in m
 3. Concrete for structure, Type C1

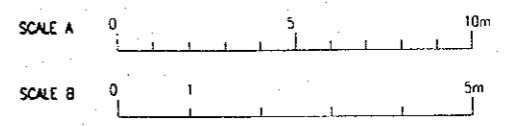
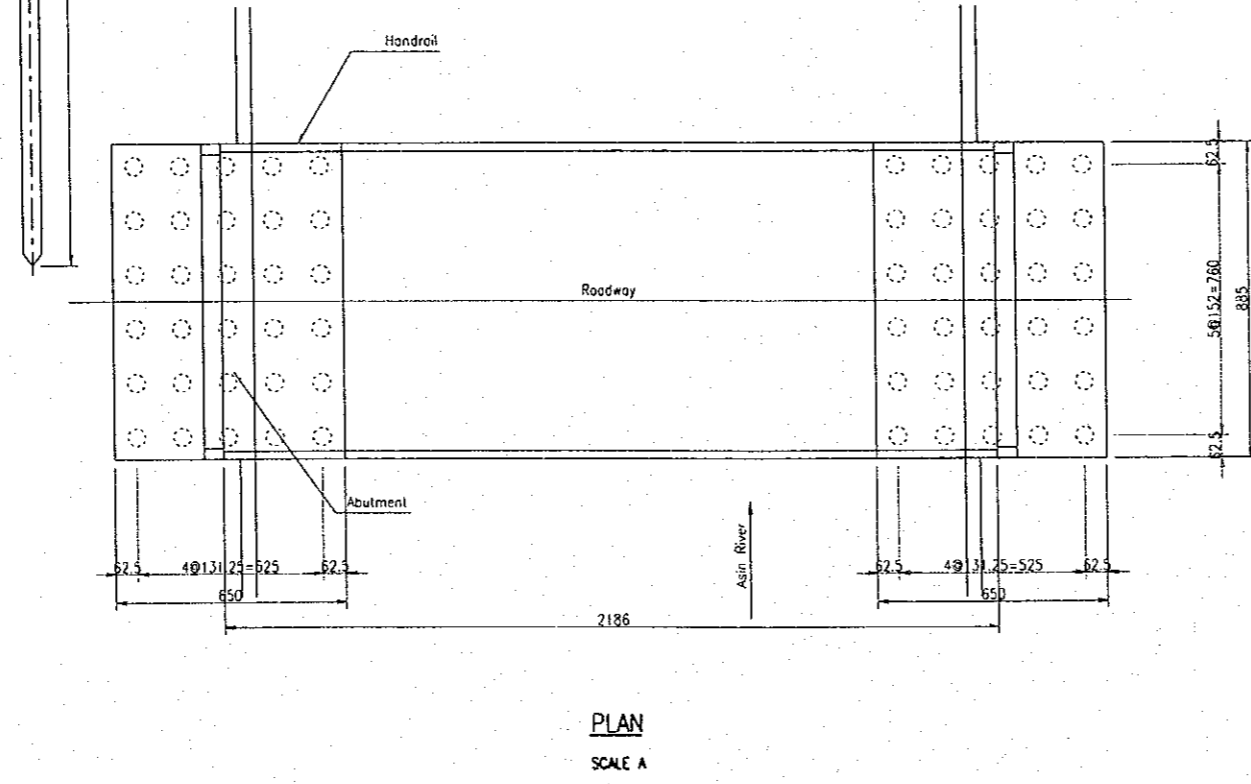
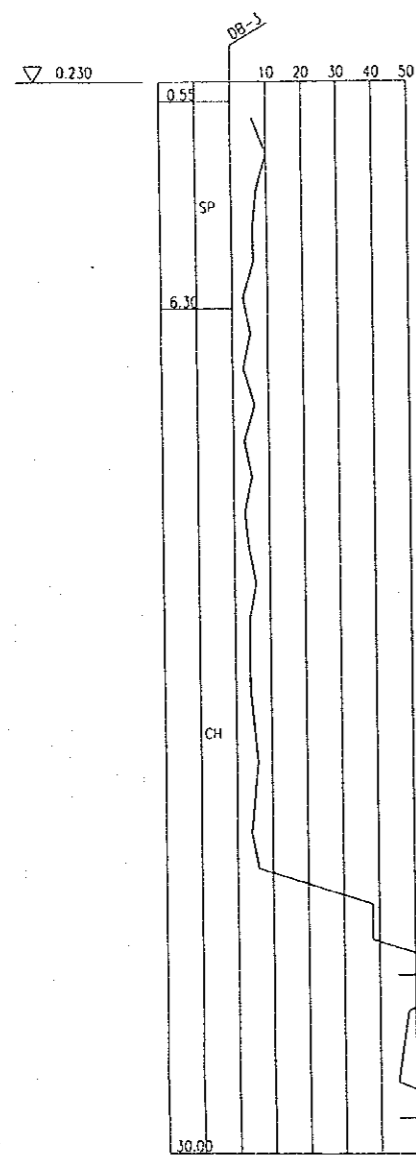
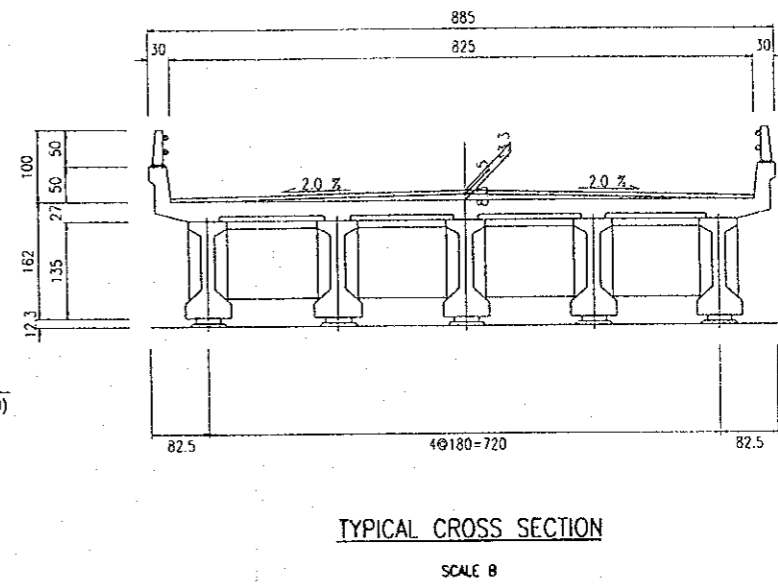
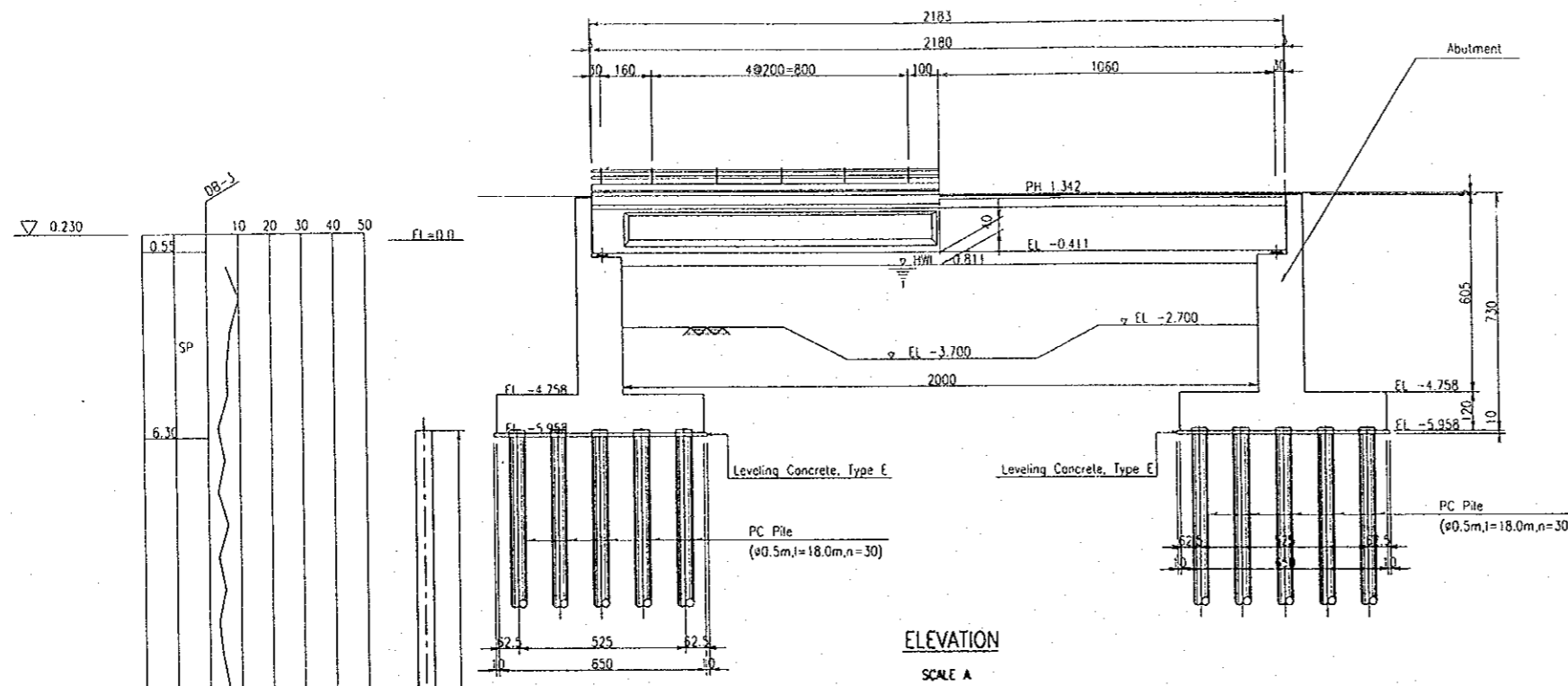


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.3.9

ASIN NO.1 BRIDGE

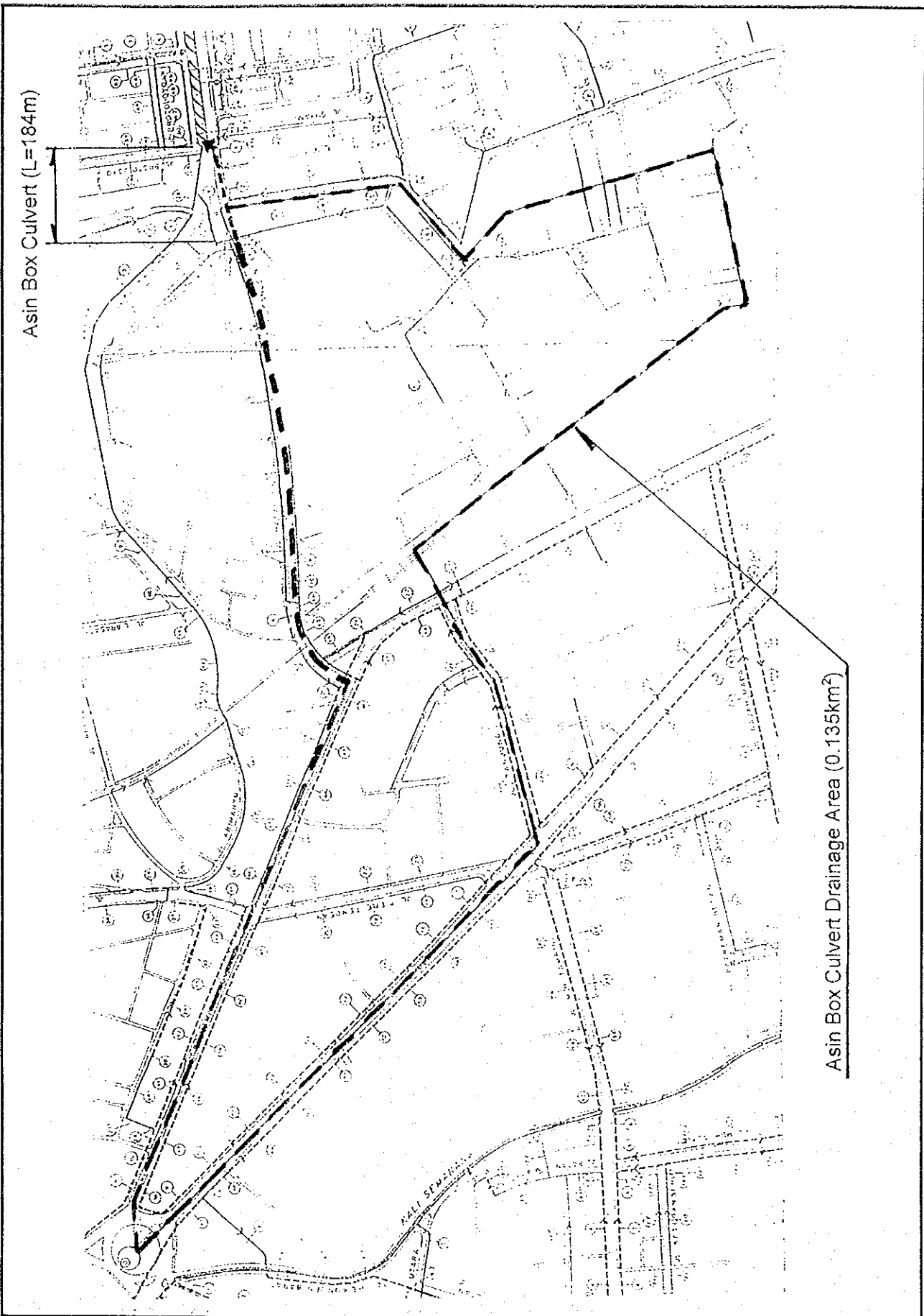


- Notes :
1. The dimension in cm
 2. The elevation in m
 3. Concrete for structure, Type C1

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

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Fig. 6.3.10
ASIN NO.2 BRIDGE



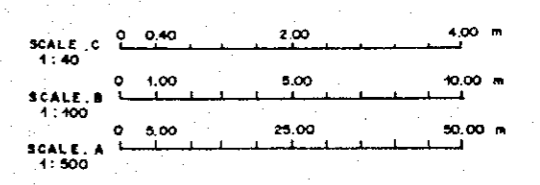
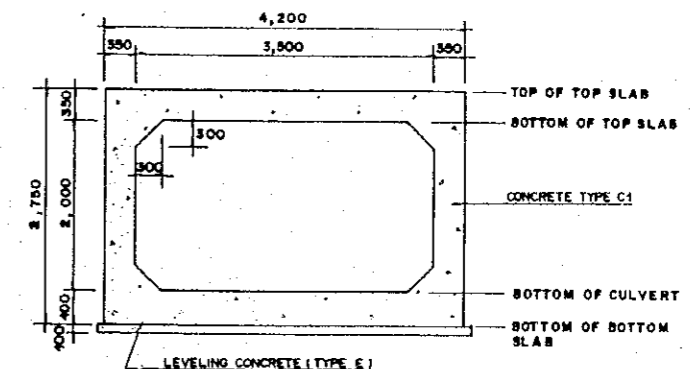
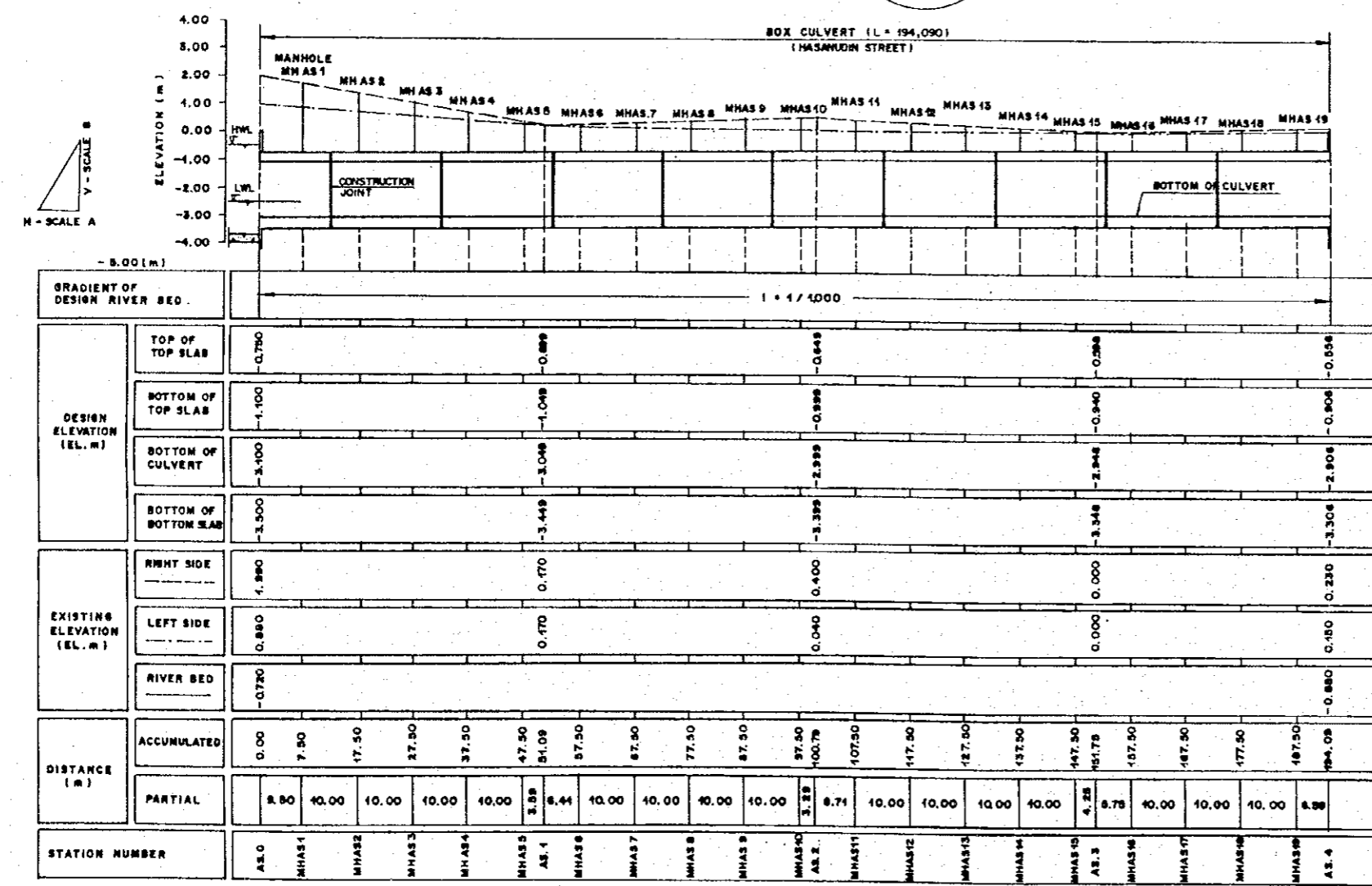
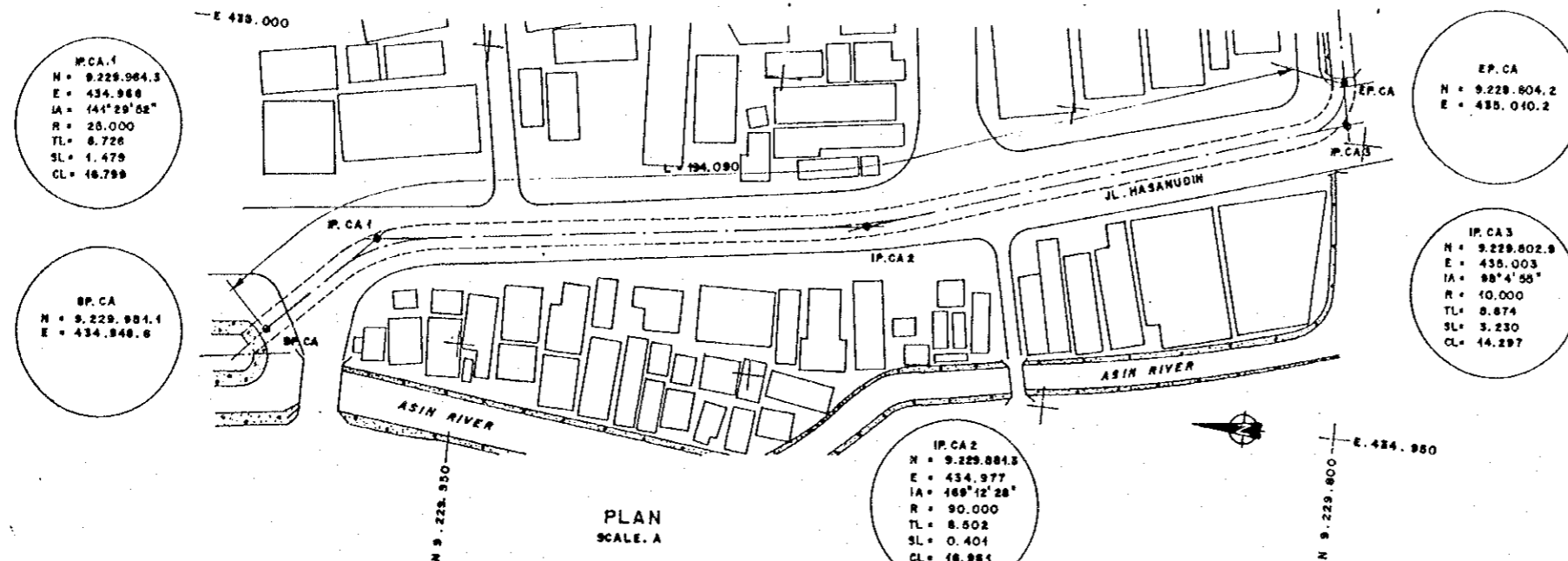
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

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Fig. 6.3.11

DRAINAGE AREA OF ASIN BOX CULVERT



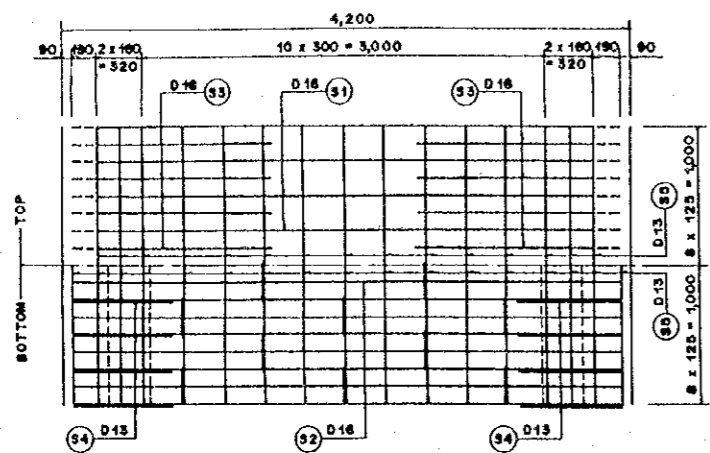


LONGITUDINAL SECTION OF CULVERT SCALE A

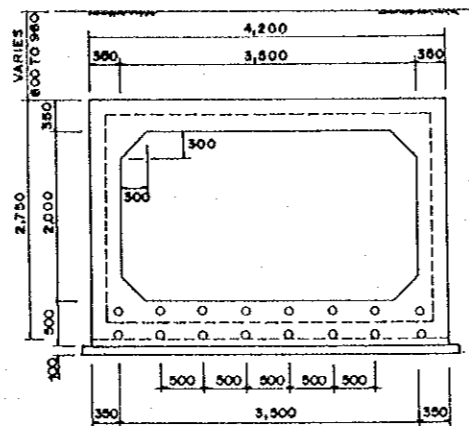
CROSS SECTION OF CULVERT SCALE C

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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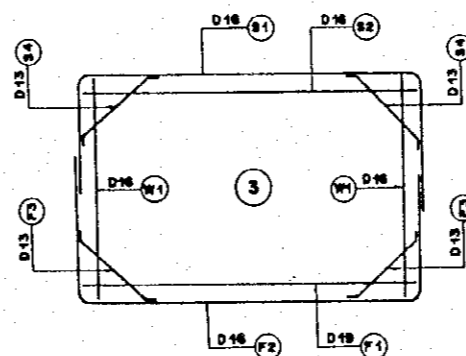
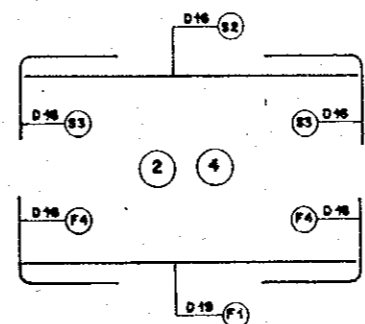
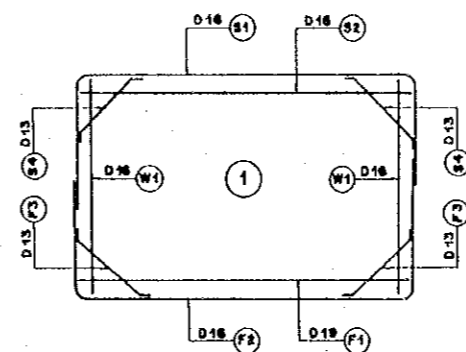
Fig. 6.3.12 ASIN BOX CULVERT PLAN, LONGITUDINAL PROFILE AND CROSS SECTION



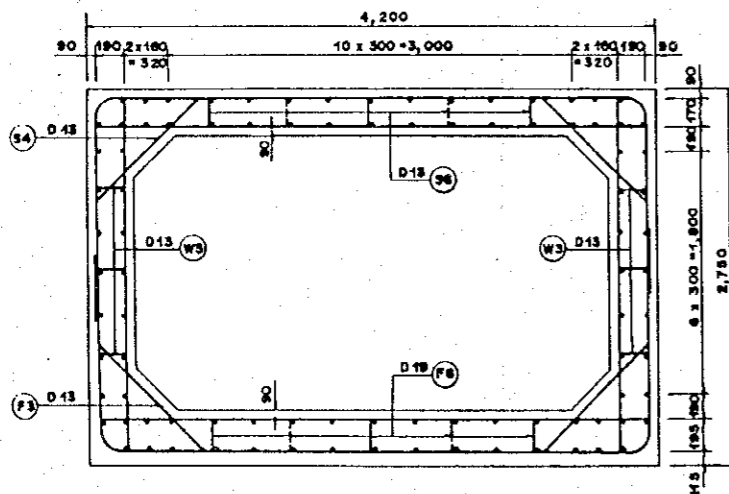
TOP SLAB
SCALE B



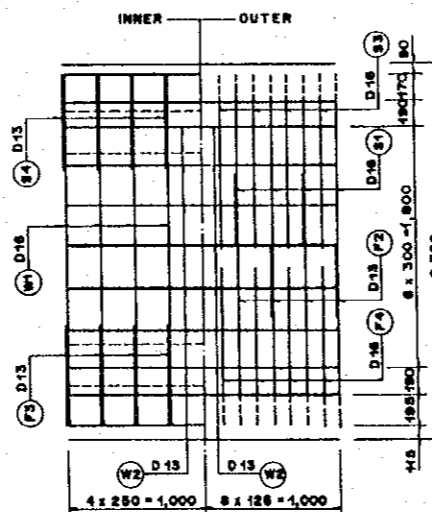
GENERAL CROSS SECTION
SCALE A



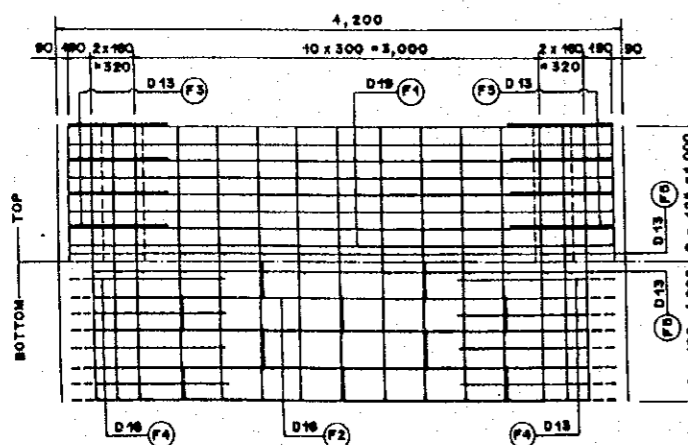
BAR LAY OUT
SCALE A



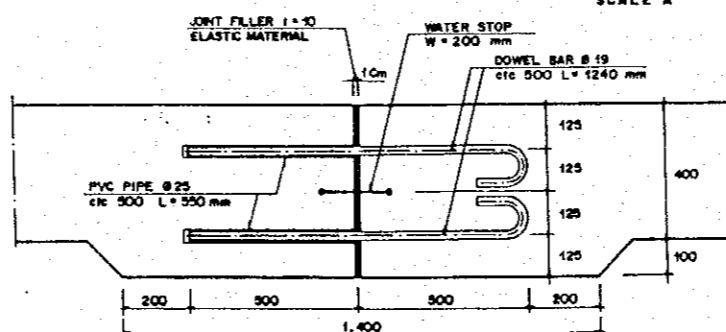
CROSS SECTION
SCALE B



SIDE WALL
SCALE B



BOTTOM SLAB
SCALE B



DETAIL OF JOINTING
SCALE C

BAR BENDING SCHEDULE

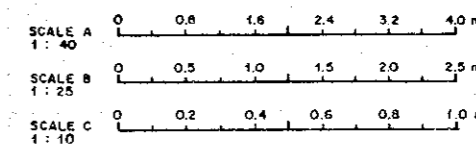
TYPE	SHAPE	DIA	NUMBER	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	R (mm)
S1	5	D16	4	8,870	1,570	220	3740	1120		140
S2	1	D16	8	4,050	4,052					
S3	4	D16	8	2,780	1,120	220	1420			140
S4	5	D13	8	1,180	100	980	100		693	
S5	1	D13	32	1,000	1,000					
S6	3	D13	10	870	100	196	276			
W1	1	D16	8	2,580	2,577					
W2	1	D13	28	1,000	1,000					
W3	2	D13	12	400	100	196	100			
F1	1	D19	8	4,050	4,052					
F2	5	D16	4	7,030	1,145	220	3740	1705		140
F3	6	D13	8	1,220	100	1,015	100		718	
F4	4	D16	8	2,580	986	220	1,145			140
F5	1	D13	32	1,000	1,000					
F6	3	D19	10	920	100	224	276			

BAR WEIGHT

TYPE	DIA	LENGTH (mm)	NUMBER	WEIGHT PER M (kg/m)	WEIGHT PER BAR (kg)	WEIGHT (kg)	SHAPE
S1	D16	8,870	4	1.580	10.855	43.418	
S2	D16	4,050	8	1.580	6.398	51.992	
S3	D16	2,780	8	1.580	4.361	34.888	
S4	D13	1,180	8	1.040	1.227	9.817	
S5	D13	1,000	32	1.040	1.040	33.280	
S6	D13	870	10	1.040	0.905	9.048	
W1	D16	2,580	8	1.580	4.076	32.611	
W2	D13	1,000	28	1.040	1.040	29.120	
W3	D13	400	12	1.040	0.415	4.992	
F1	D19	4,050	8	2.230	9.032	72.252	
F2	D16	7,030	4	1.580	11.107	44.430	
F3	D13	1,220	8	1.040	1.289	10.150	
F4	D16	2,580	8	1.580	3.729	29.830	
F5	D13	1,000	32	1.040	1.040	33.280	
F6	D19	920	10	2.230	2.052	20.516	

BAR BENDING DETAIL

DIA	a	b	l	R	OVERLAP	
					L	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

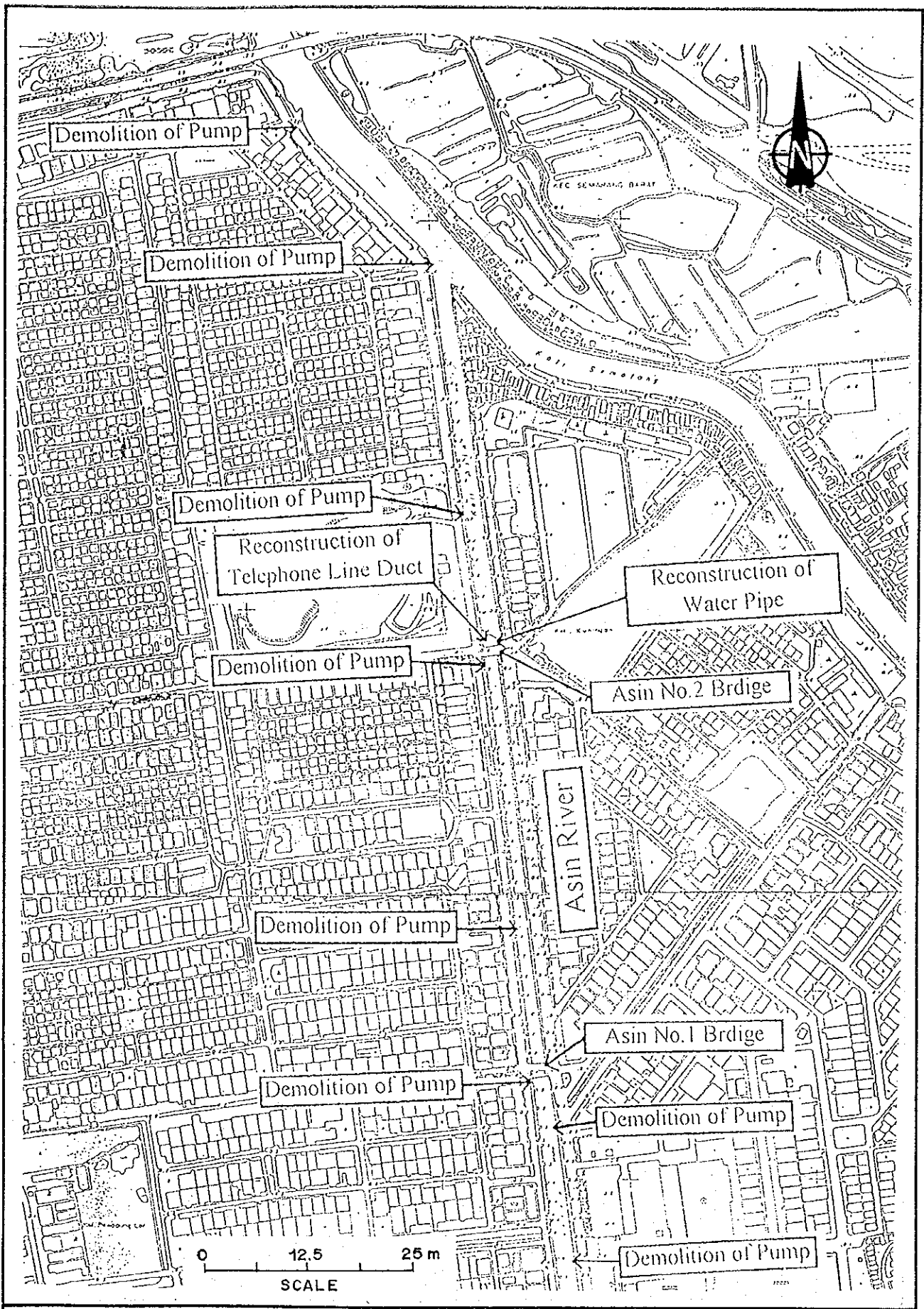


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 6.3.13

ASIN BOX CULVERT DETAILED DESIGN

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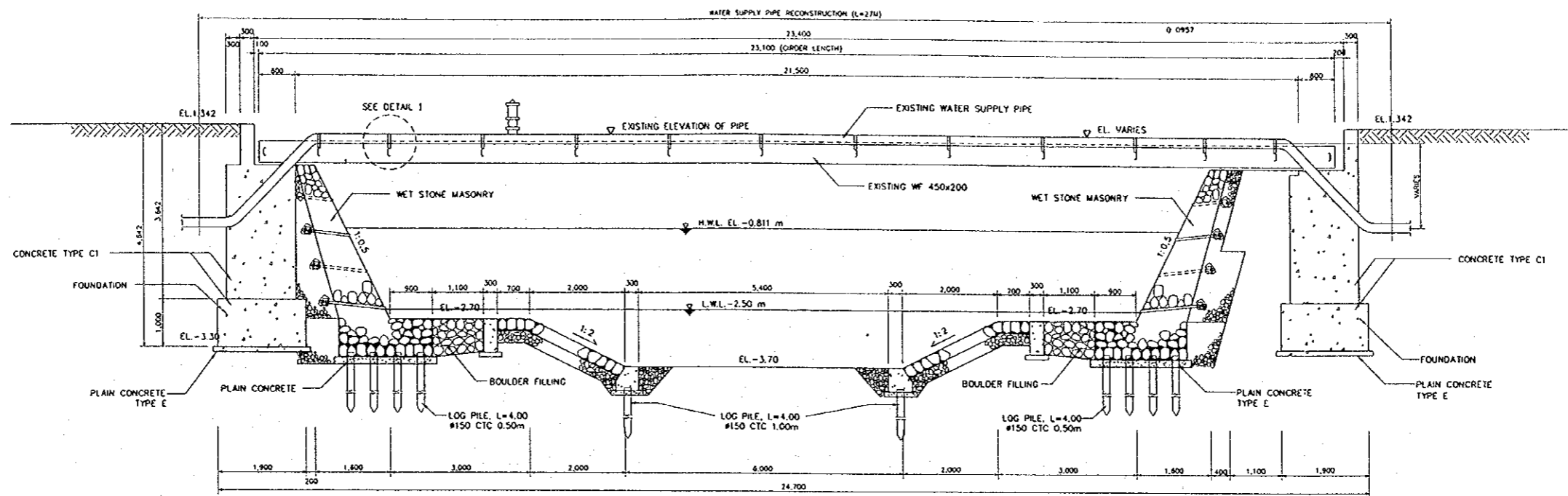
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

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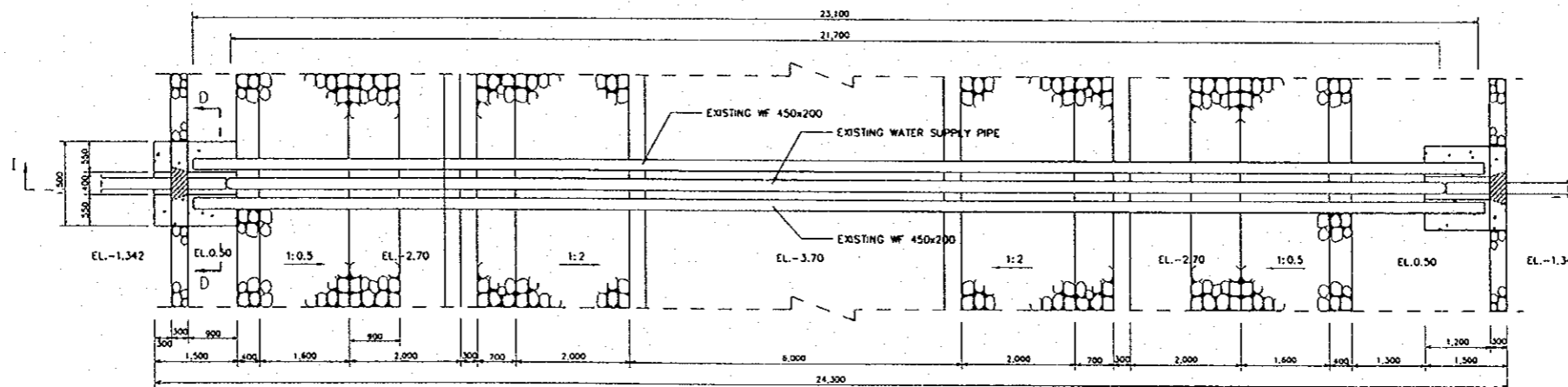
Fig. 6.3.14

LOCATION OF MISCELLANEOUS WORKS ALONG ASIN RIVER

1

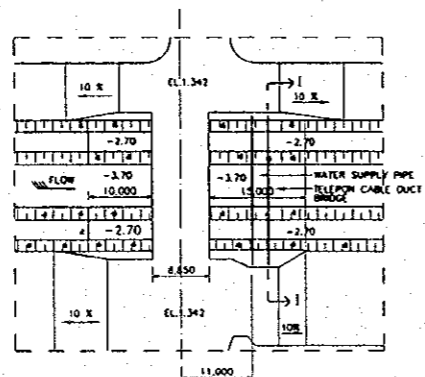


SECTION I-I
SCALE A



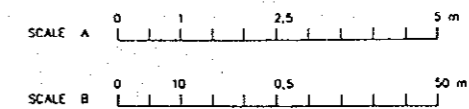
ASIN RIVER BRIDGE NO. 2

PLAN
SCALE A



KEY PLAN
SCALE B

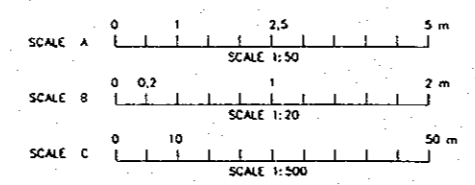
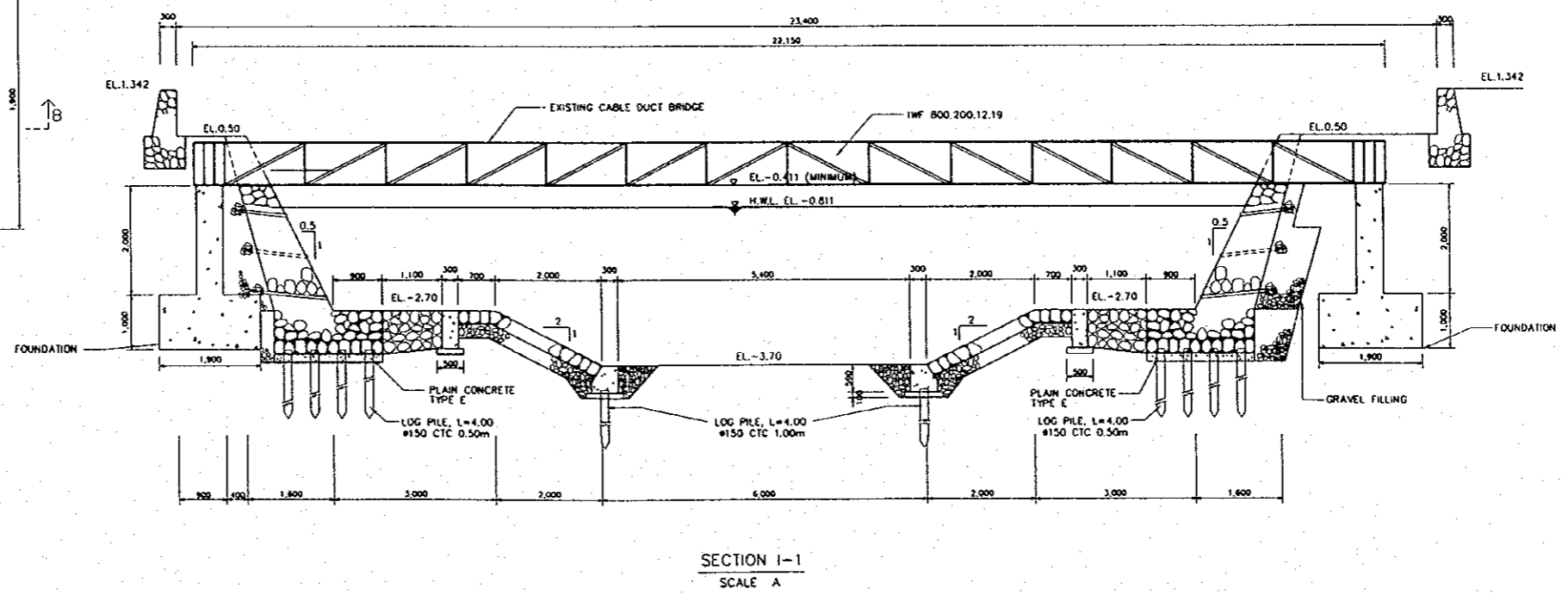
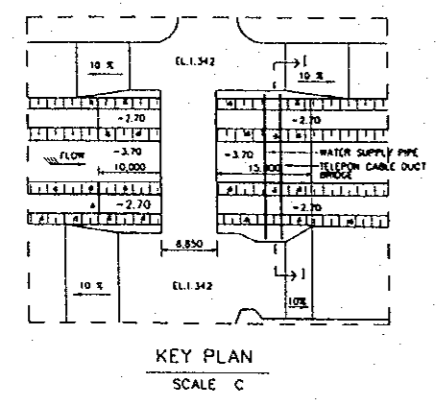
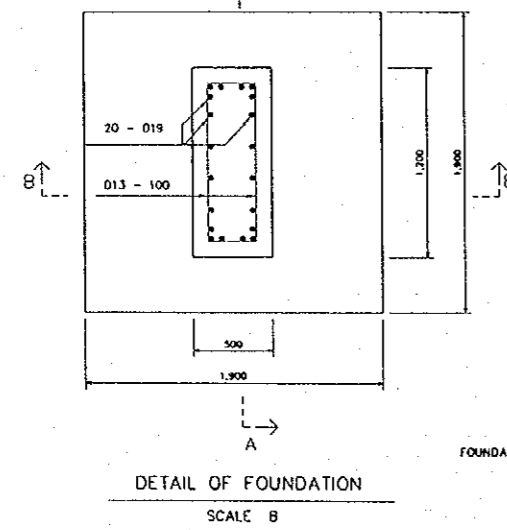
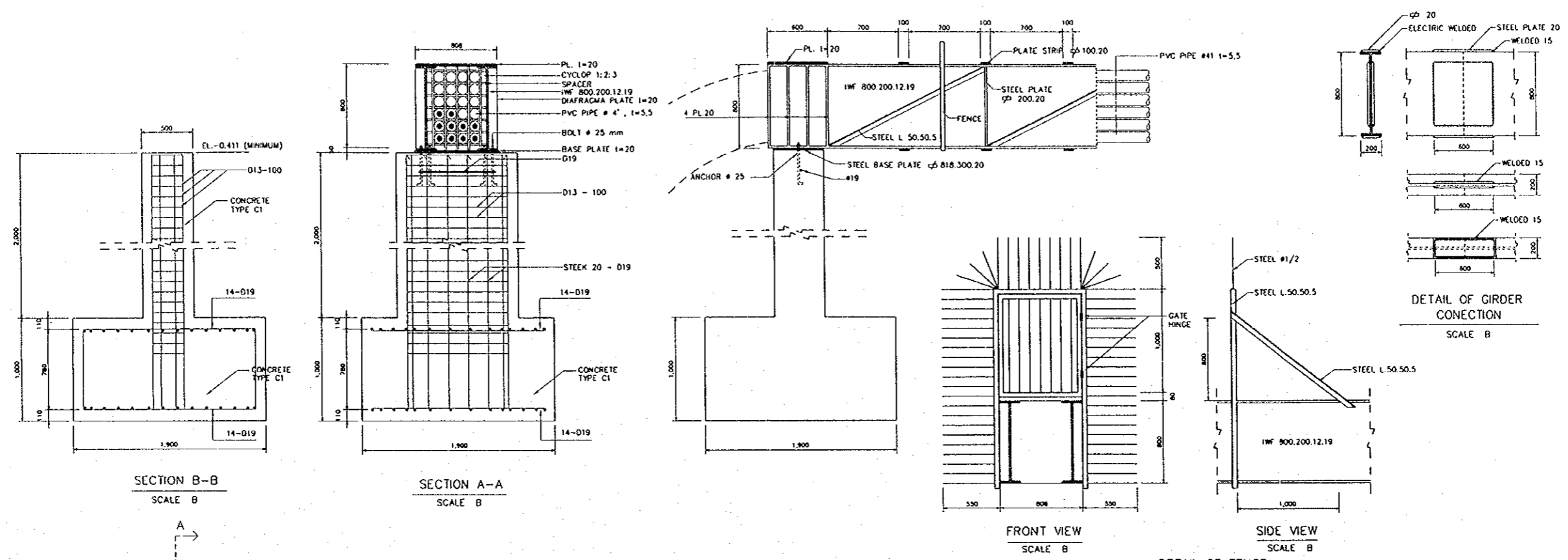
NOTE:
GRIDDER LENGTH OF WATER SUPPLY PIPE KM 0+813 IS 21,600 M



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN
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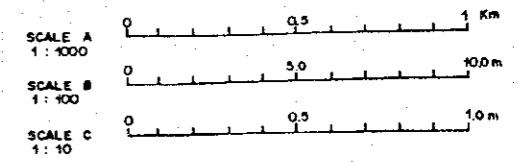
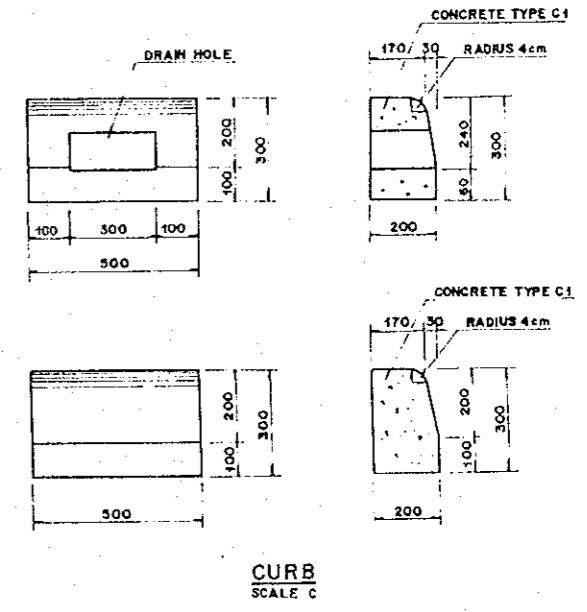
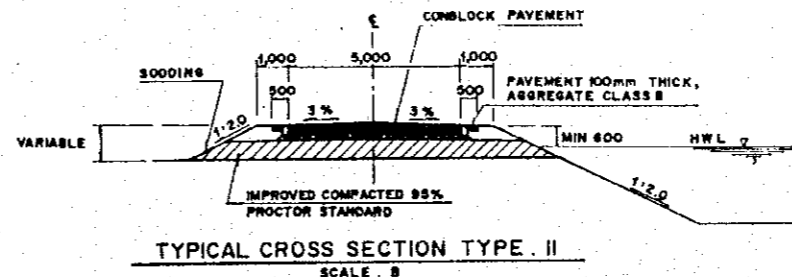
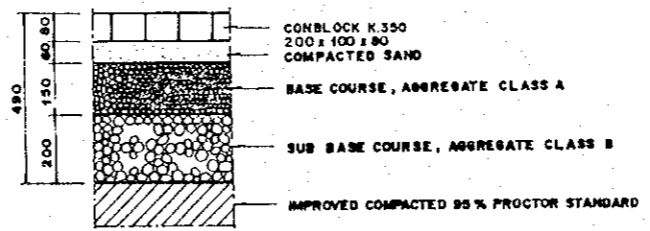
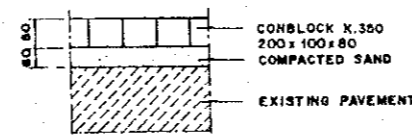
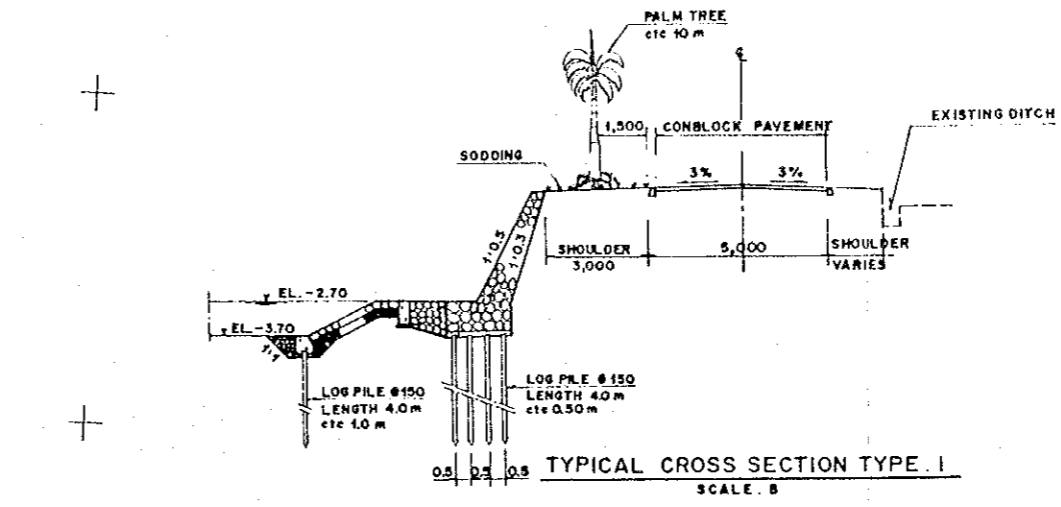
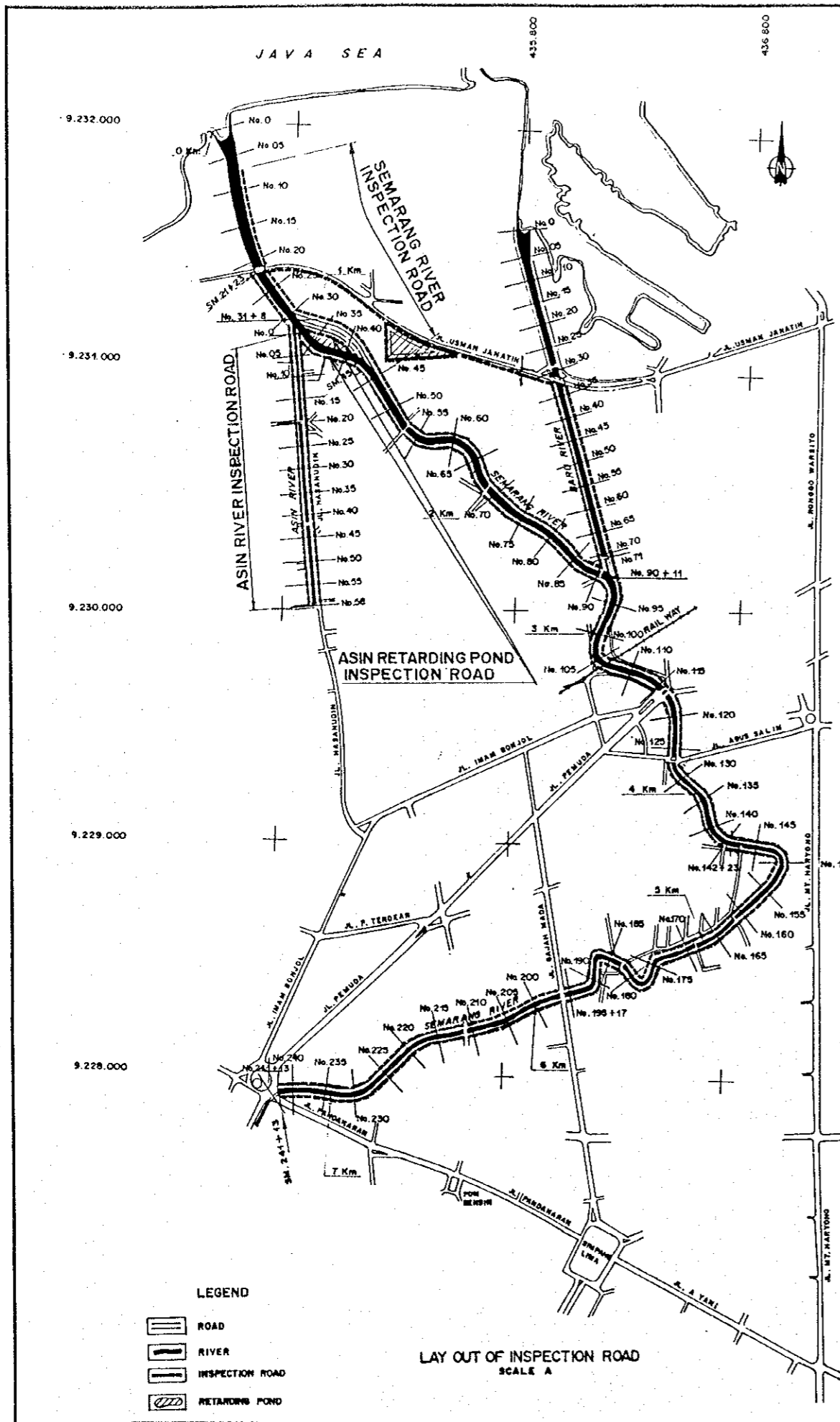
Fig. 6.3.15

WATER SUPPLY PIPE RECONSTRUCTION



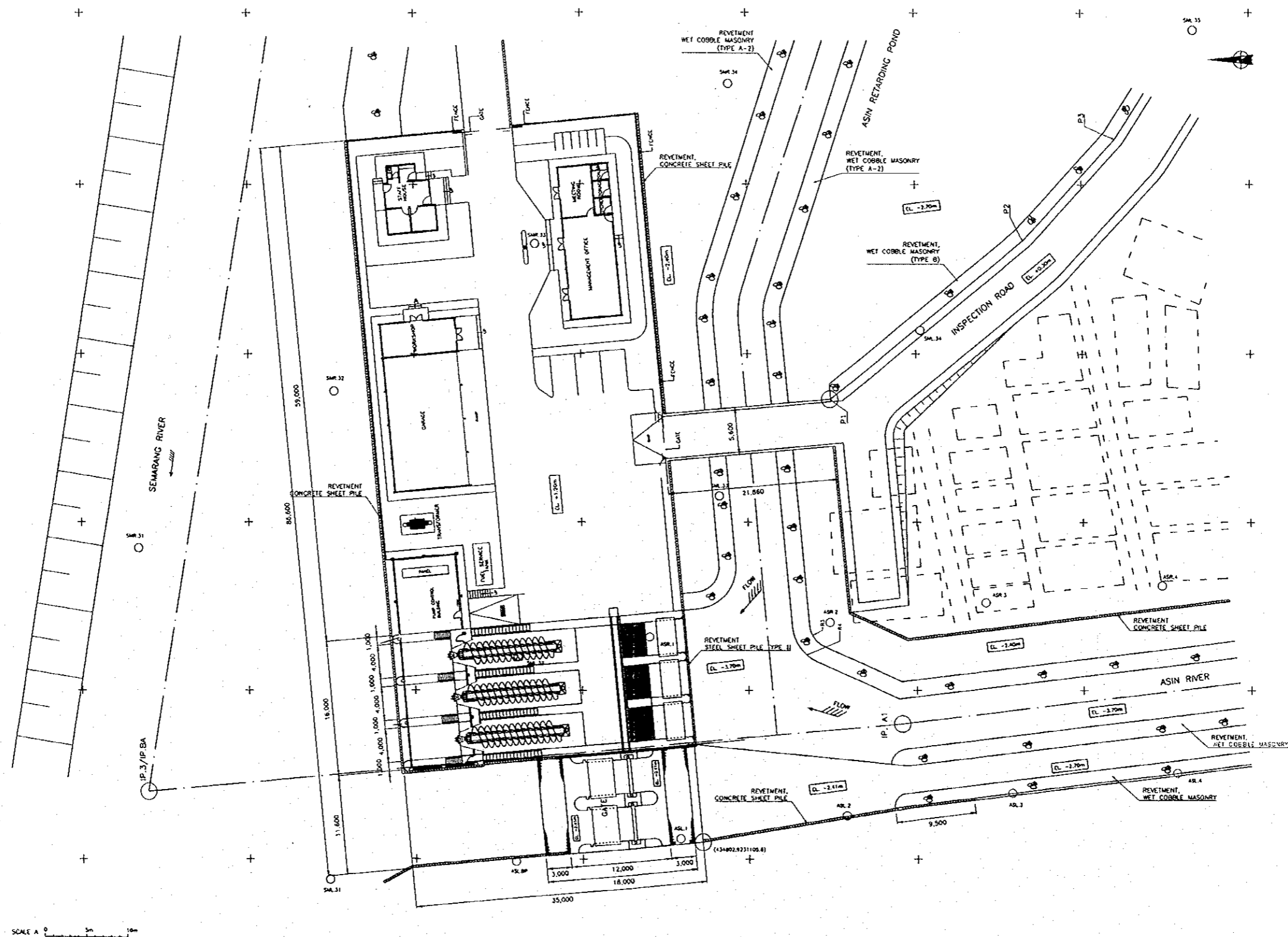
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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Fig. 6.3.16
TELEPHONE CABLE DUCT RECONSTRUCTION



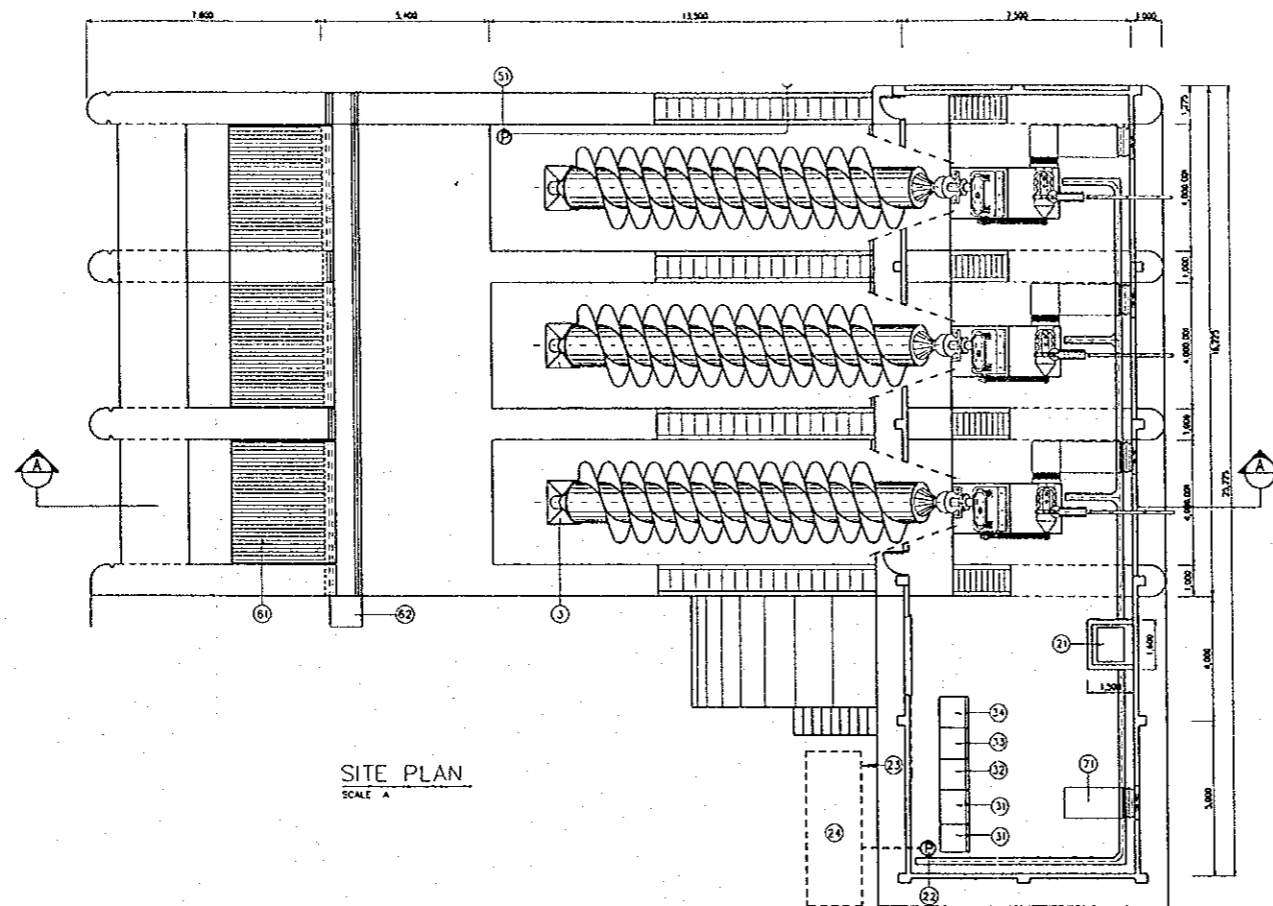
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
 JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.3.17
 ASIN RIVER INSPECTION ROAD

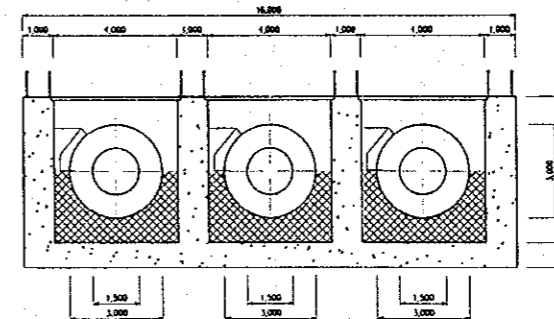
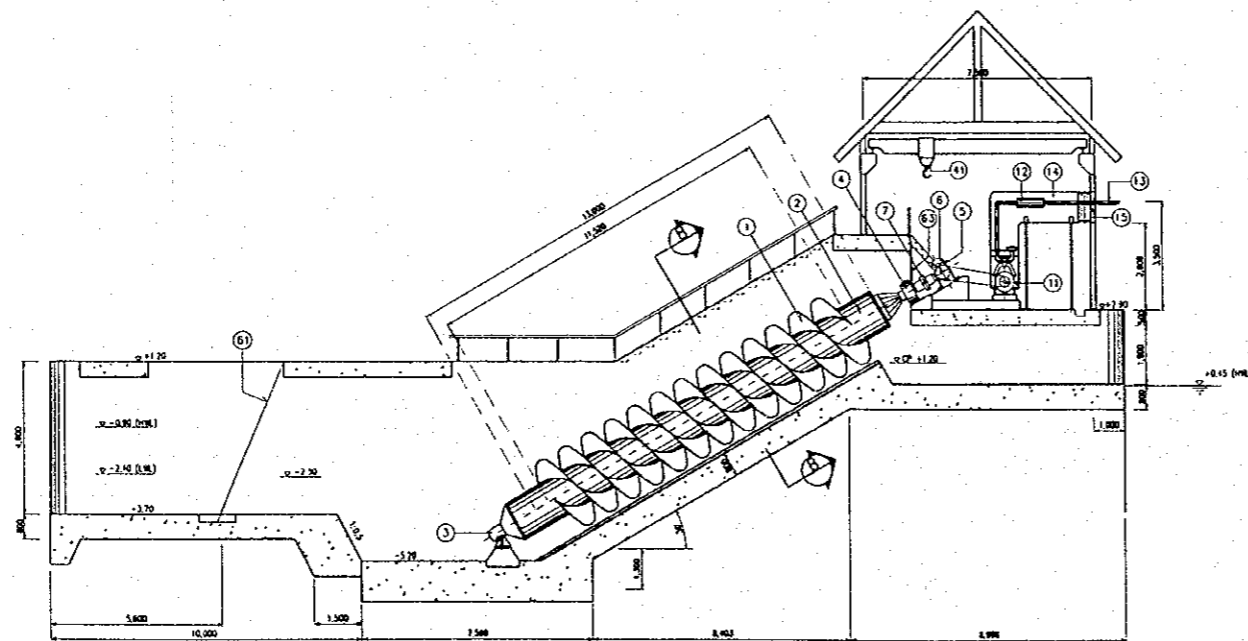


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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Fig. 6.3.18
 LAYOUT OF ASIN PUMPING STATION



NO	DESCRIPTION	REMARKS	UNIT
1	Flight of screw pump	Diameter : 3,000 mm, Capacity : 3.0 m ³ /s	3
2	Center tube of screw pump		3
3	Lower bearing		3
4	Upper bearing		3
5	Gear box	Gear ratio 600 rpm/26.5 rpm	3
6	V-Belt & Pulley	Pulley, 500 mm diameter, 3 Planes	9/3
7	Coupling		3
11	Diesel engine	375 hp, 1,800 rpm Radiator cooled type	3
12	Muffler		3
13	Exhaust pipe		3
14	Ducting & Flexible Connector		3
15	Louver	By architectural work	3
21	Fuel service tank	2,000 liter	1
22	Fuel transfer pump		1
23	Fuel intake connection plug		1
24	Fuel storage tank	10,000 liter, underground	1
31	kWh meter & distribution panel	For PLN's transformer & Generator Unit	1
32	Water control panel		1
33	Water level indication & Alarm panel		1
34	Batteries charger & Panel	For diesel engine starting	1
41	Manual operated hoist	2 ton	1
51	Auxiliary drainage pump	Submersible type capacity : 0.2 m ³ /s	1
61	Screen	Pitch 200 mm	3
62	Splash plate	2.3 mm Galvanized steel plate, Fixed after alignment	3
71	Generator Unit	16.0 KVA	1

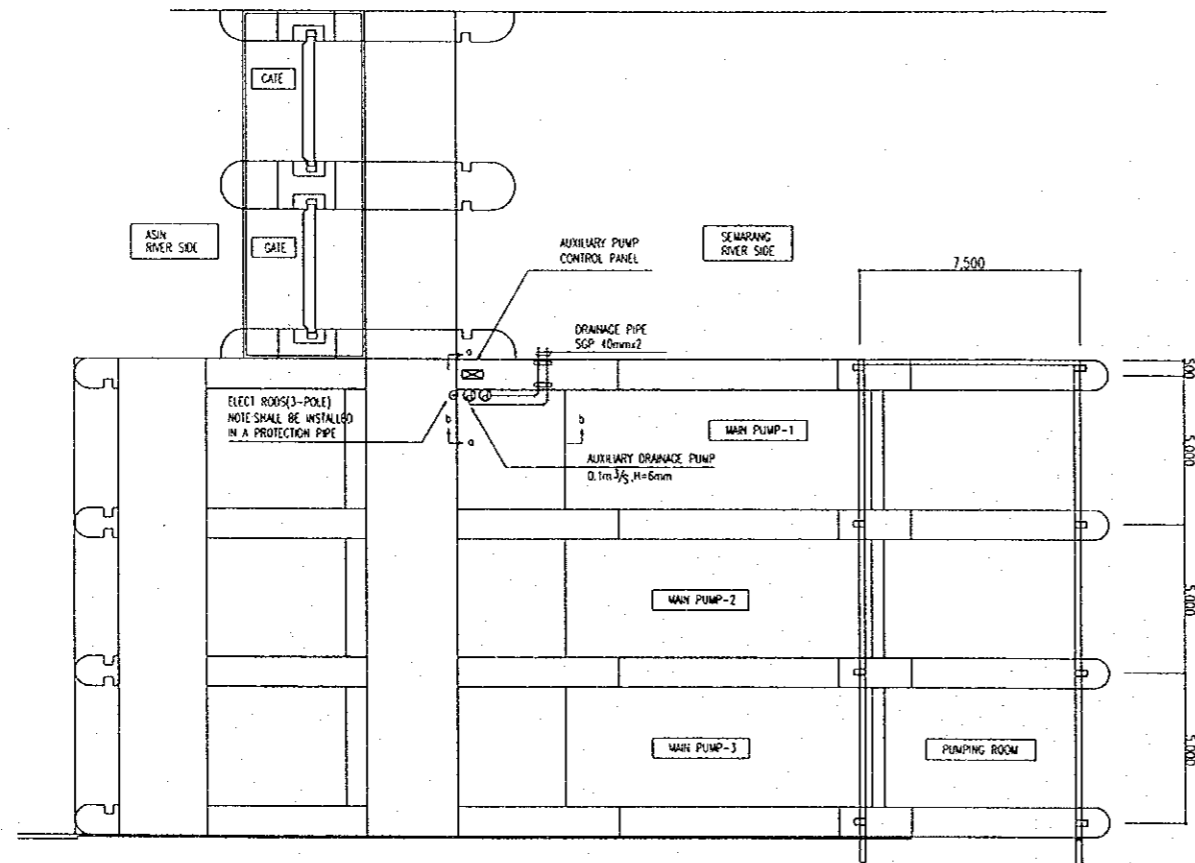


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

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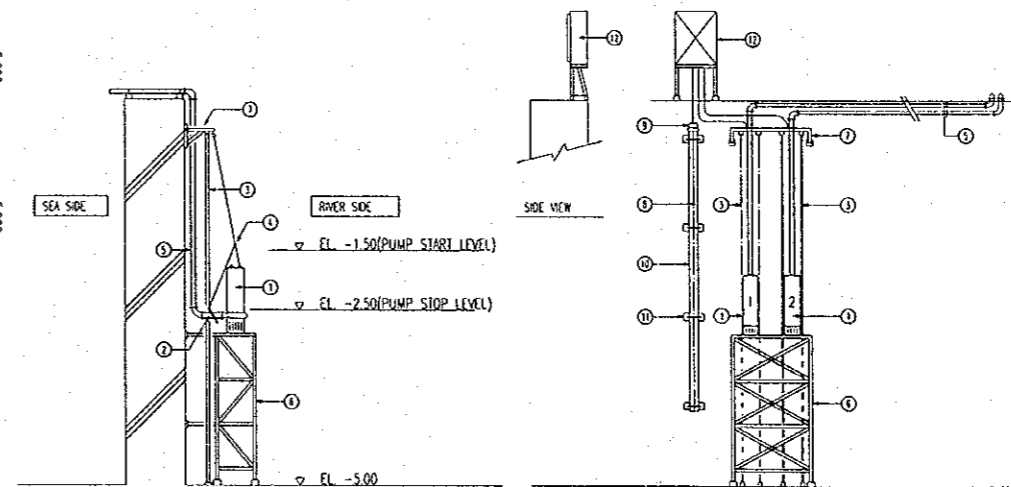
Fig. 6.3.19

MECHANICAL LAYOUT OF ASIN PUMPING STATION



AUXILIARY DRAINAGE PLAN S=1:100

①	SUBMERSIBLE MOTOR DRAINAGE PUMP (WITH SLIDING TYPE SELF CONNECTION FLANGE)	CAPACITY : 0.1m ³ /S HEAD: 6m, MOTOR 13KW
②	SLIDING TYPE FLANGE	CONNECTED AND SEALED BY WEIGHT OF THE PUMP
③	GUIDE PIPES	TO SLIDING THE PUMP
④	CHAIN	TO LIFT UP AND DOWN THE PUMP
⑤	DRAINAGE PIPE	SCP 40mm
⑥	MOUNTING PLATFORM	
⑦	FIXING STRUCTURE	TO GUIDE PIPES
⑧	ELECT-RODS (SUS 5mm)	3-RODS, WITH SEPARATING DEVICES
⑨	ELECT-ROD HOLDER	WITH CABLE CONNECTION TERMINALS
⑩	PROTECTION PIPE	FOR ELECT-RODS, PVC 250mm
⑪	FIXING DEVICES	FOR PROTECTION PIPE
⑫	CONTROL PANEL	METALLIC CABINET IP 65



o-a SECTION

b-b ELEVATION

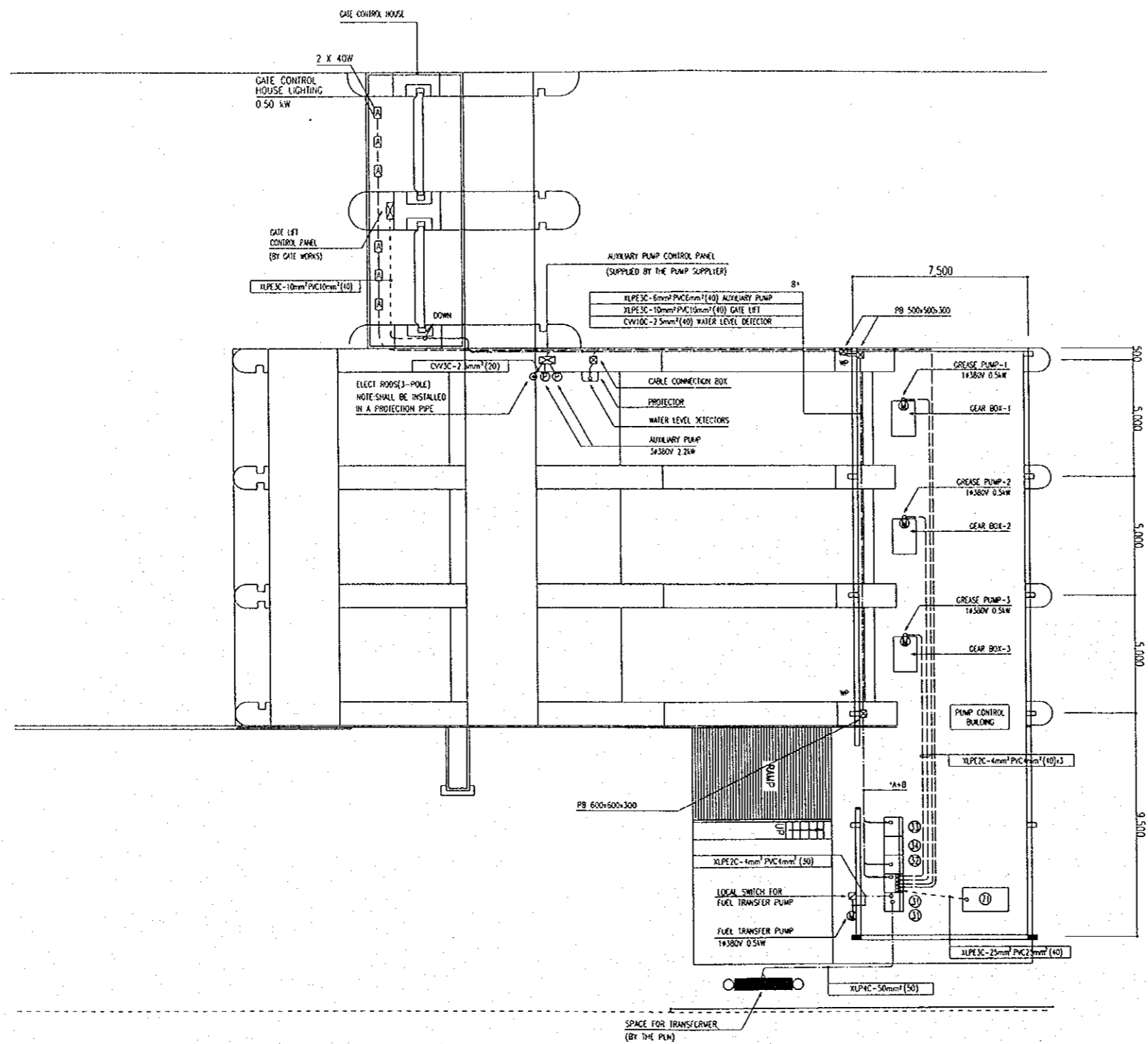
AUXILIARY DRAINAGE PUMP INSTALLATION S=1:50
(FOR REFERENCE)

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

Fig. 6.3.20

AUXILIARY PUMP

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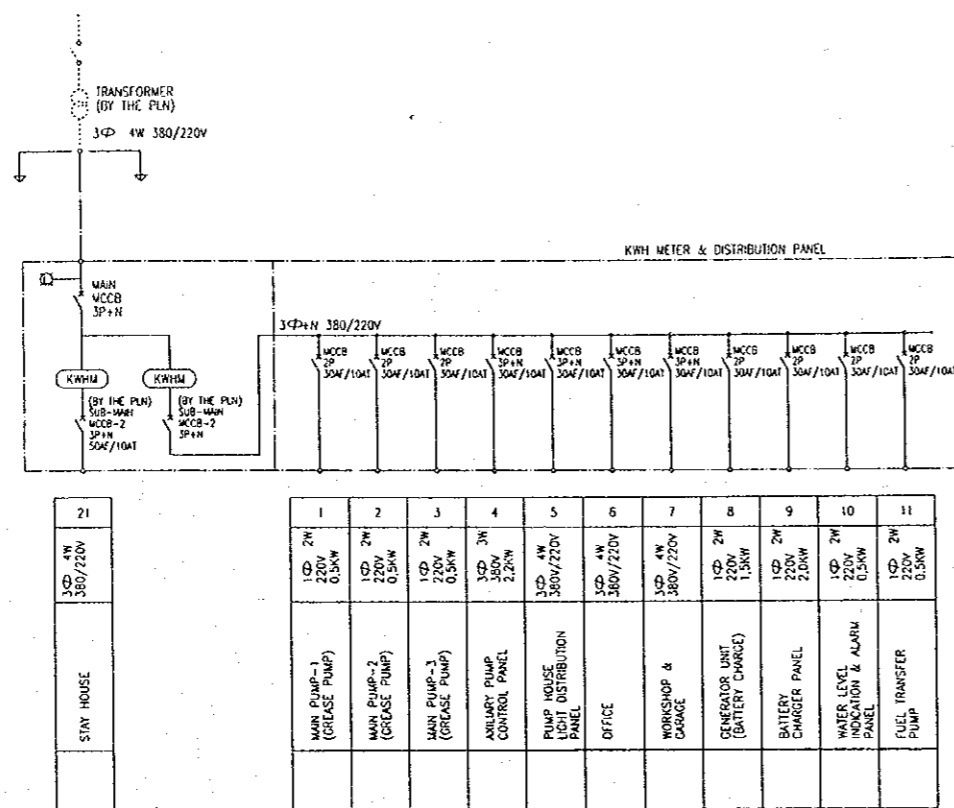


①	FPM METER & DISTRIBUTION PANEL
②	MOTOR CONTROL PANEL
③	WATER LEVEL INDICATION & ALARM PANEL
④	BATTERY CHARGER PANEL
⑤	GENERATOR UNIT 3430V 2.2kW
PB	PULL BOX
WP	WATER PROOFING TYPE

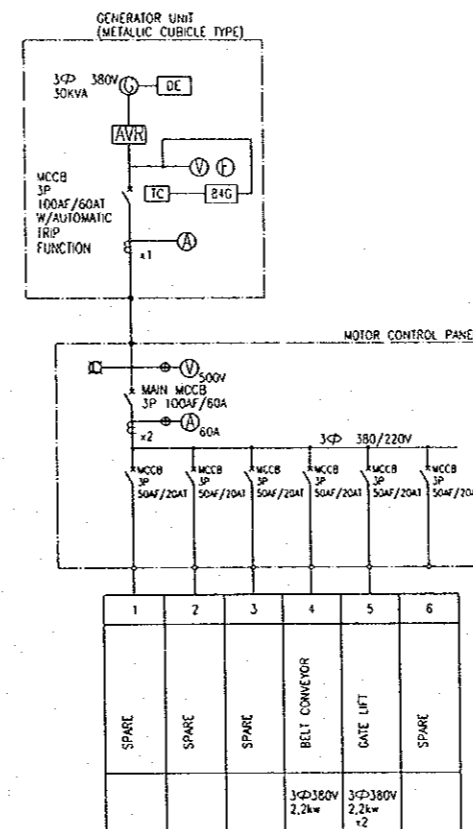
ELECTRICAL WIRING PLAN S=1:100

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

Fig. 6.3.21
 ELECTRICAL WIRING PLAN

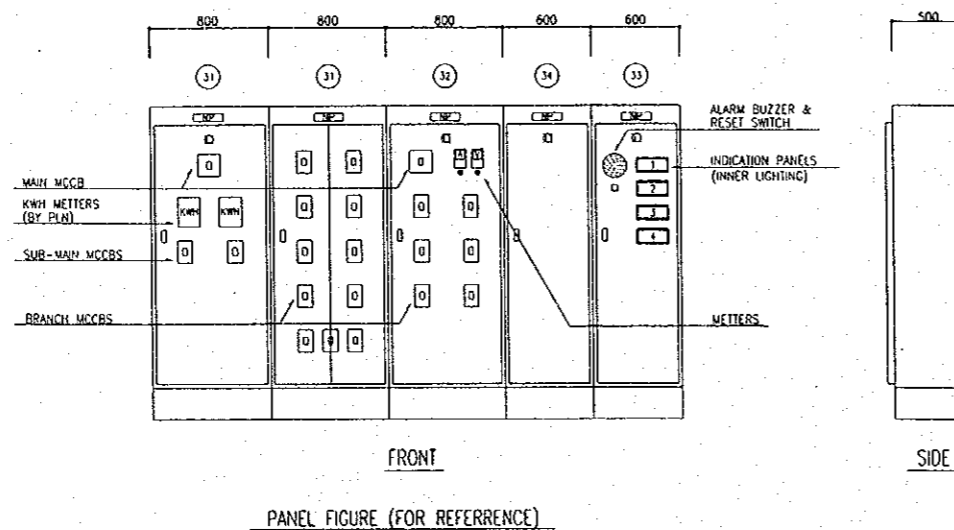


SINGLE LINE DIAGRAM FOR KWH METER & DISTRIBUTION PANEL



SINGLE LINE DIAGRAM FOR GENERATING POWER SUPPLY

Ⓞ	GENERATOR 3-PHASE 380V AC 4-POL 1500 rpm DIESEL ENGINE COOLING TYPE 30kVA POWER FACTOR 0.8
DE	DIESEL ENGINE PADMOTOR COOLING TYPE 1500rpm CELL MOTOR STARTING (DC12V) BATTERY SELF CONTAINED
AVR	AUTOMATIC VOLTAGE REGULATOR
TC	TRIP COIL
V	VOLT METER
F	FREQUENCY METER
A	AM-METER
*	PHASE CHANGE OVER SWITCH
BAG	GROUNDING VOLTAGE RELAY
CT	CURRENT TRANSFORMER
IL	INDICATION LAMP
MCCB	MOLDED CASE CIRCUIT BREAKER 600V CLASS
KWHM	WATT HOUR METER (SUPPLIED BY THE PLAN)

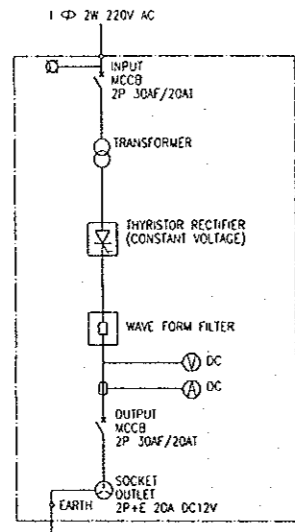


31	KWH METER & DISTRIBUTION PANEL
32	MOTOR CONTROL PANEL
33	WATER LEVEL INDICATION & ALARM PANEL
34	BATTERY CHARGER PANEL

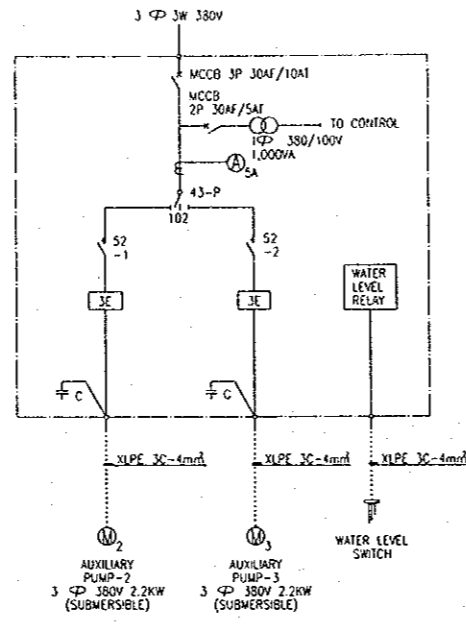
1	HIGH WATER LEVEL
2	PUMP START
3	PUMP STOP
4	LOW WATER LEVEL

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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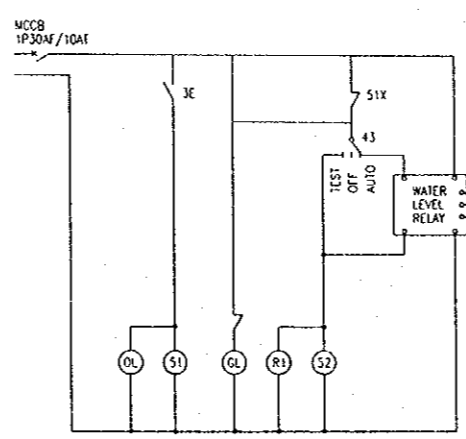
Fig. 6.3.22 (1/2)
POWER SUPPLY AND CONTROL SYSTEM DIAGRAM (1/2)



SINGLE LINE DIAGRAM FOR BATTERY CHARGER



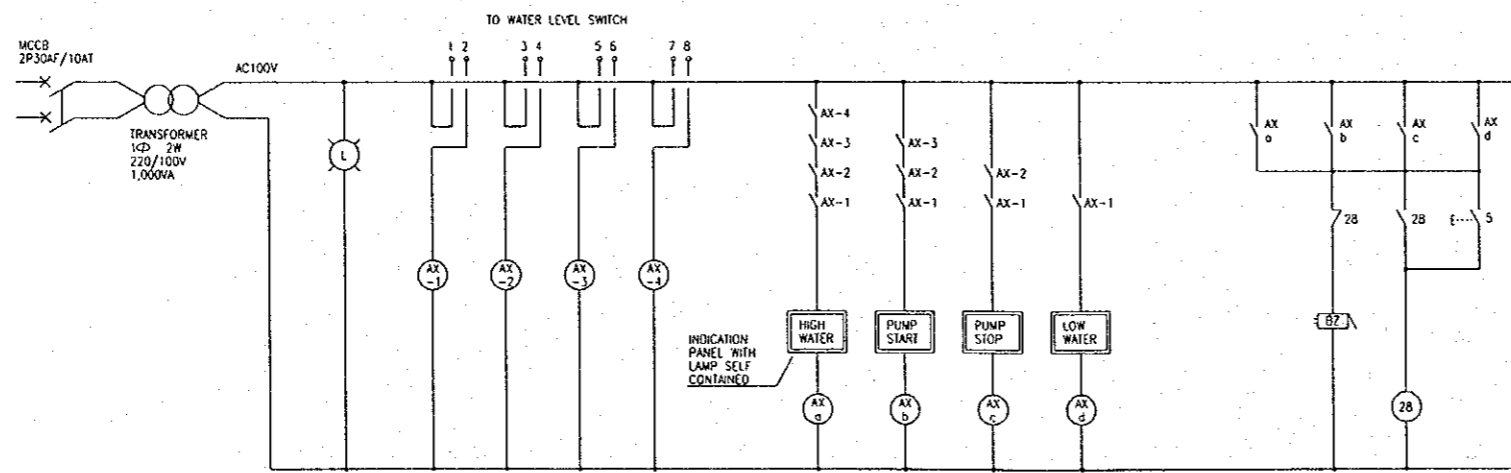
SINGLE LINE DIAGRAM FOR AUXILIARY PUMPS



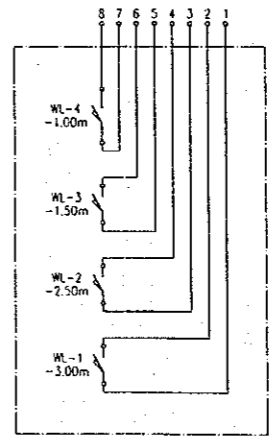
SEQUENCE CONTROL DIAGRAM FOR AUXILIARY PUMPS

E1 : DRAINAGE PUMP START
 E1 : DRAINAGE PUMP STOP
 E3 : COMMON ELECT-ROD

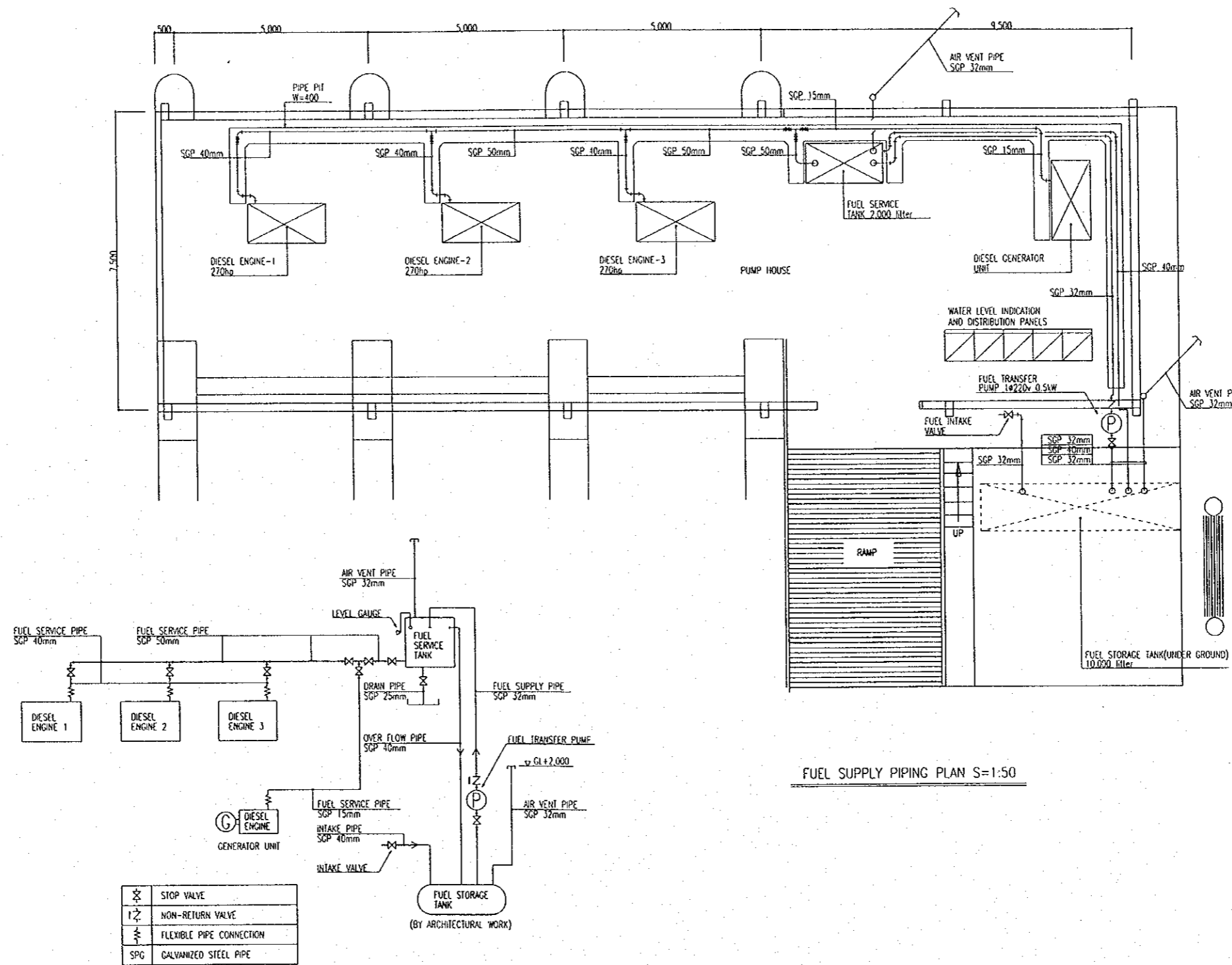
3E	3-ELEMENT RELAY (OVER LOAD, NEGATIVE PHASE, OPEN PHASE)
43	CHANGE-OVER-SWITCH
51	OVER CURRENT RELAY
52	MAGNETIC CONTACTOR
2B	ALARM RELAY
S	BOZZER STOP/RESET SWITCH
MCCB	MOLDED CASE CIRCUIT BREAKER
AF/AI	FRAME AMPER/TRIP AMPER RATE
F	FUSE
C	STATIC CONDENSOR
A	AM-METER
DL	INDICATION LAMP
BZ	ALARM BOZZER
AX	AUXILIARY RELAY



SEQUENCE CONTROL DIAGRAM FOR WATER LEVEL INDICATION & ALARM PANEL



WATER LEVEL SWITCHES

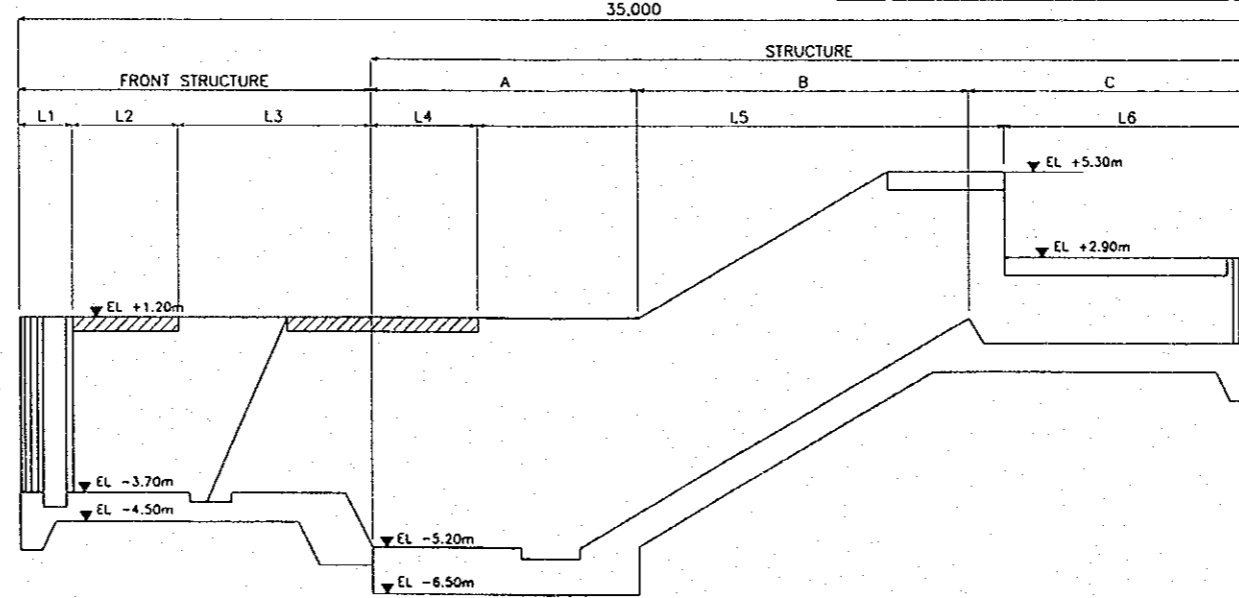
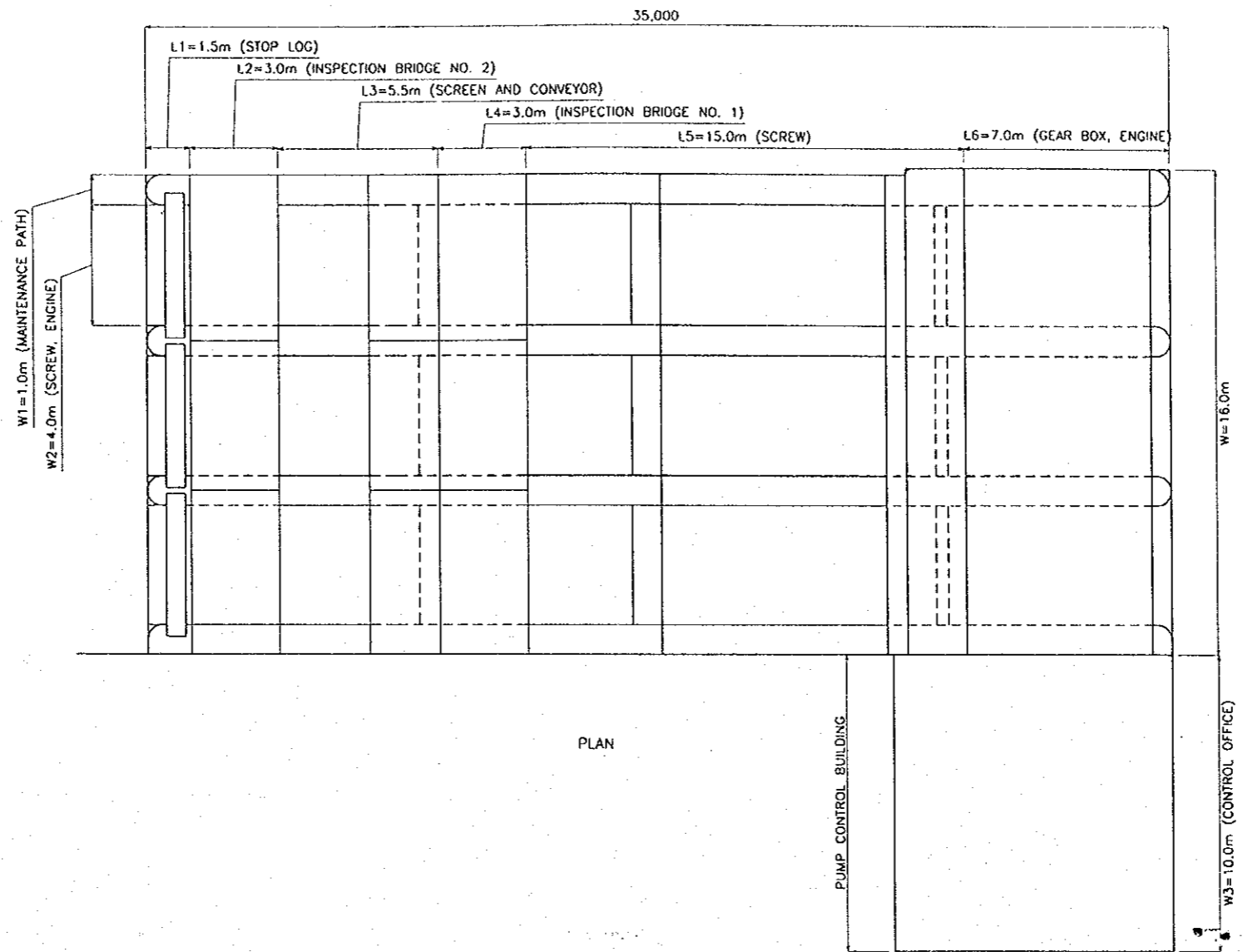


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

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Fig. 6.3.23

FUEL SUPPLY SYSTEM PLAN



SCALE
1 : 100

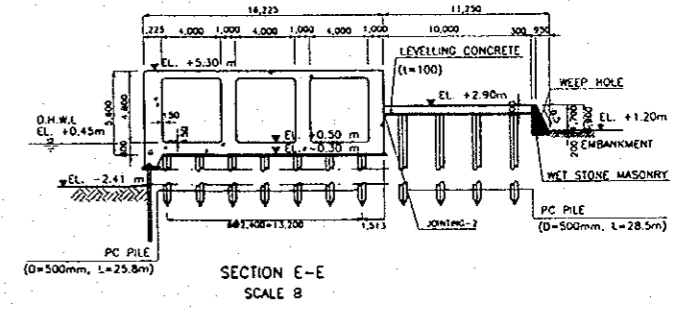
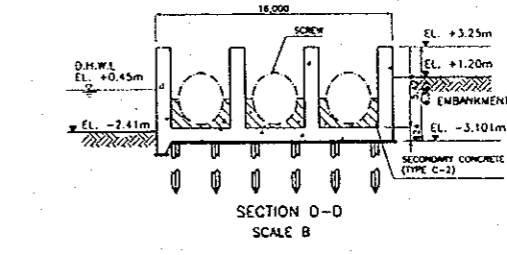
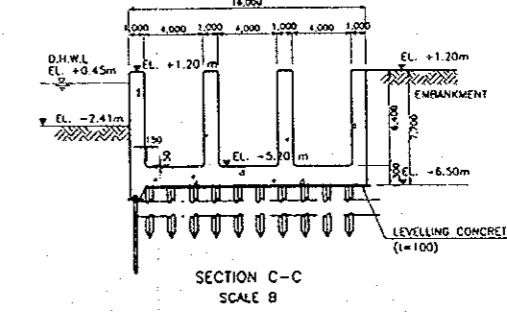
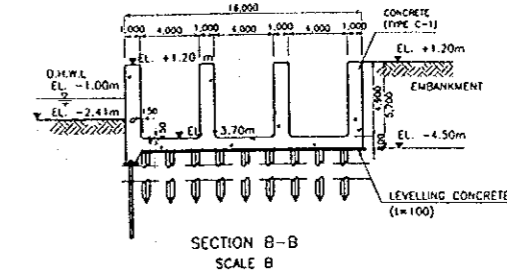
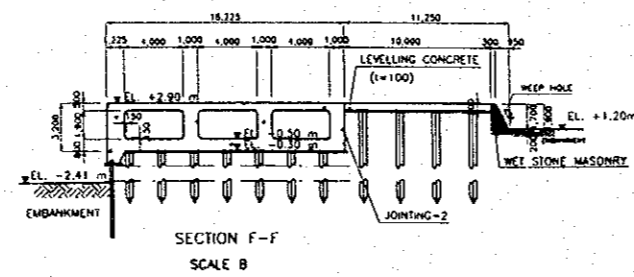
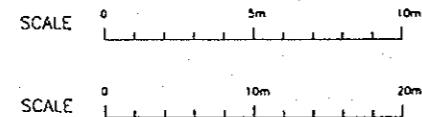
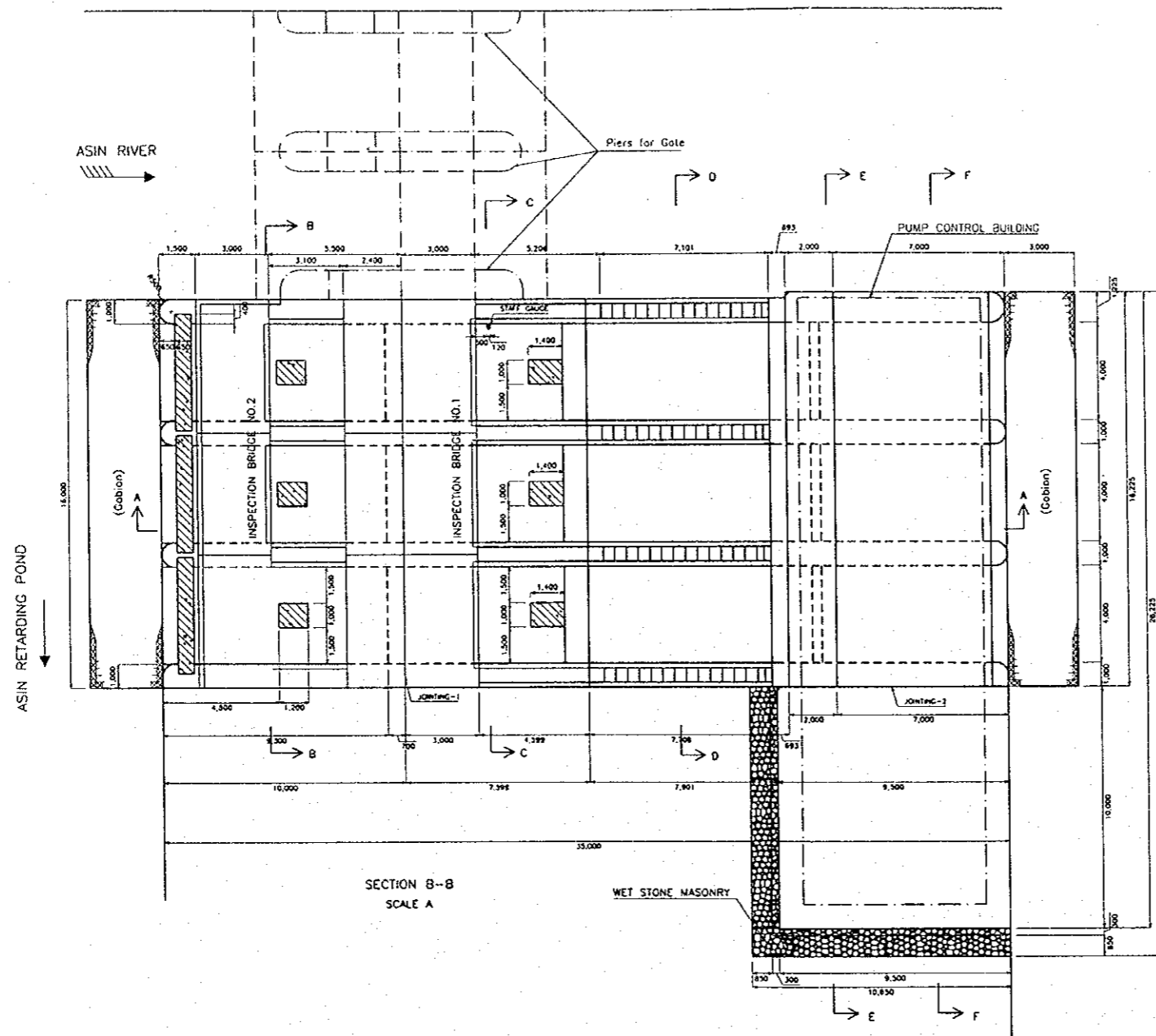
LONGITUDINAL PROFILE

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

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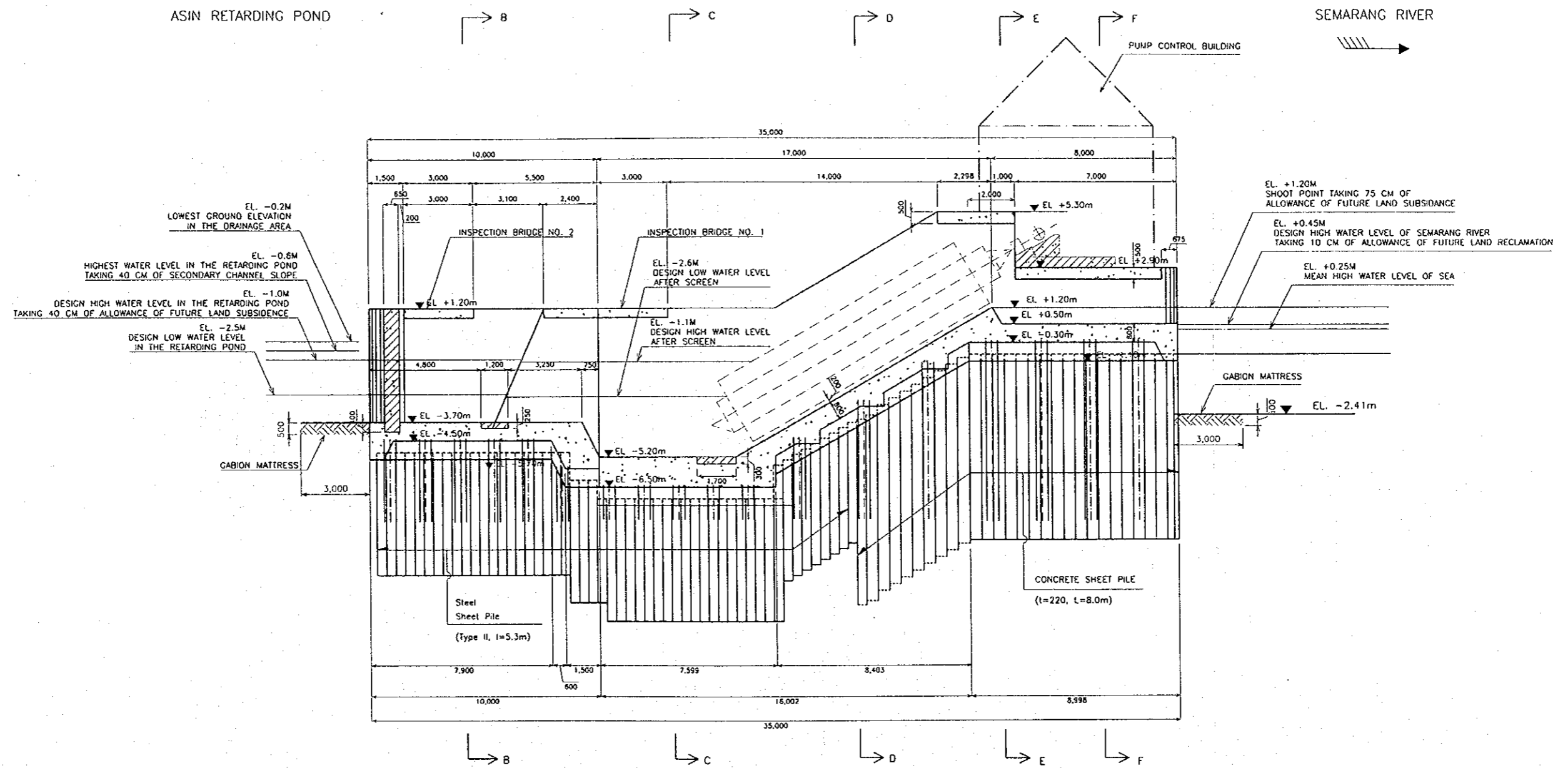
Fig. 6.3.24

SCHEMATIC LAYOUT OF PUMPING STATION

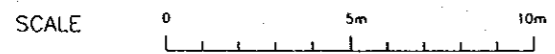


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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Fig. 6.3.25 (1/2)
 ASIN PUMPING STATION (1/2)



LONGITUDINAL PROFILE OF ASIN PUMPING STATION (A-A)
SCALE A

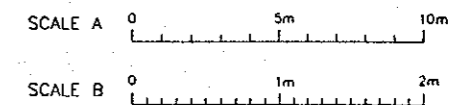
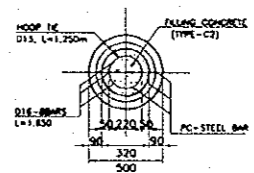
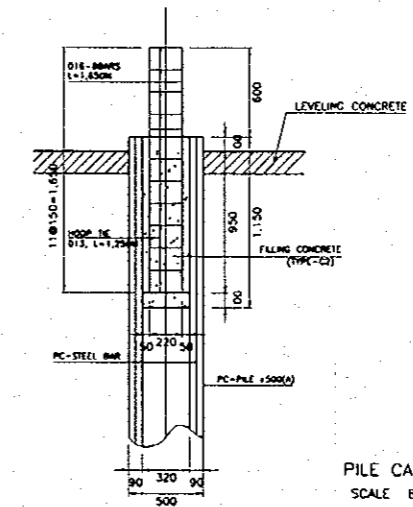
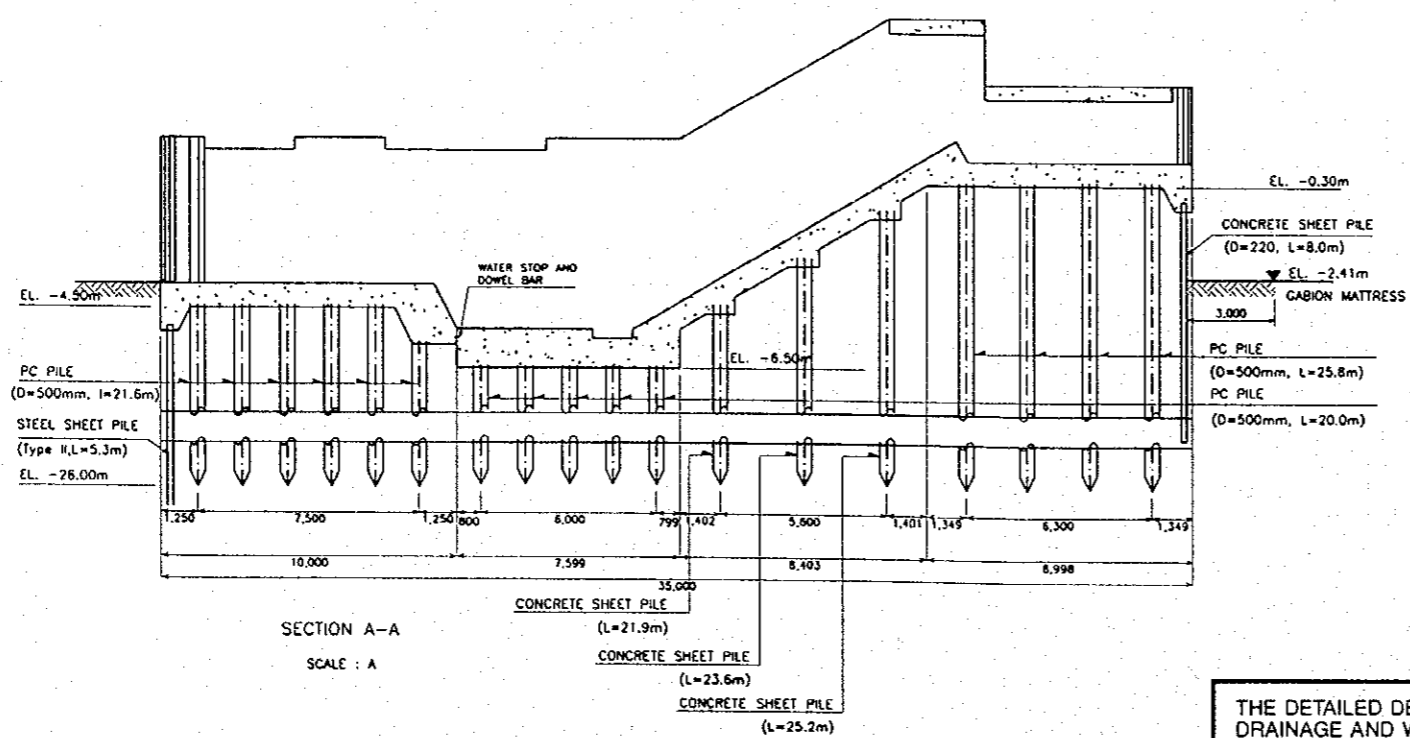
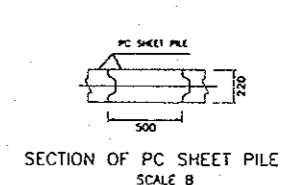
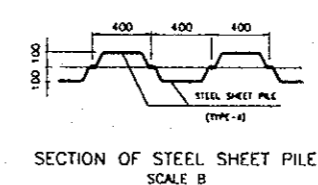
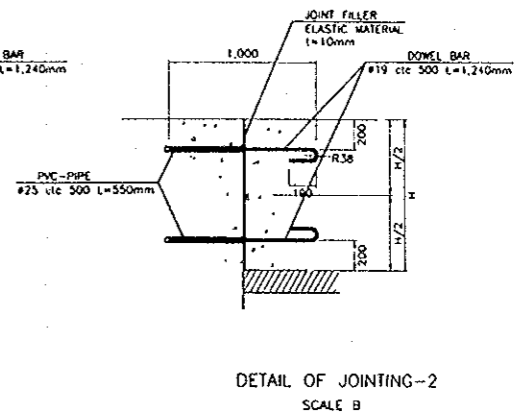
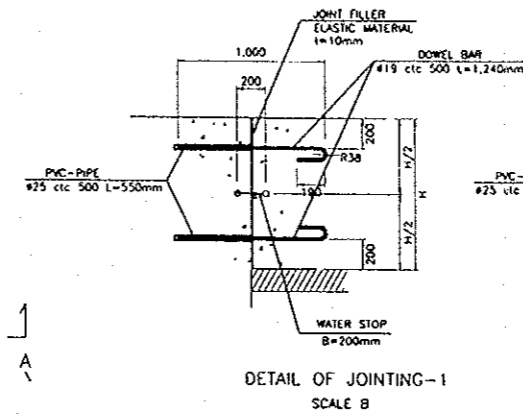
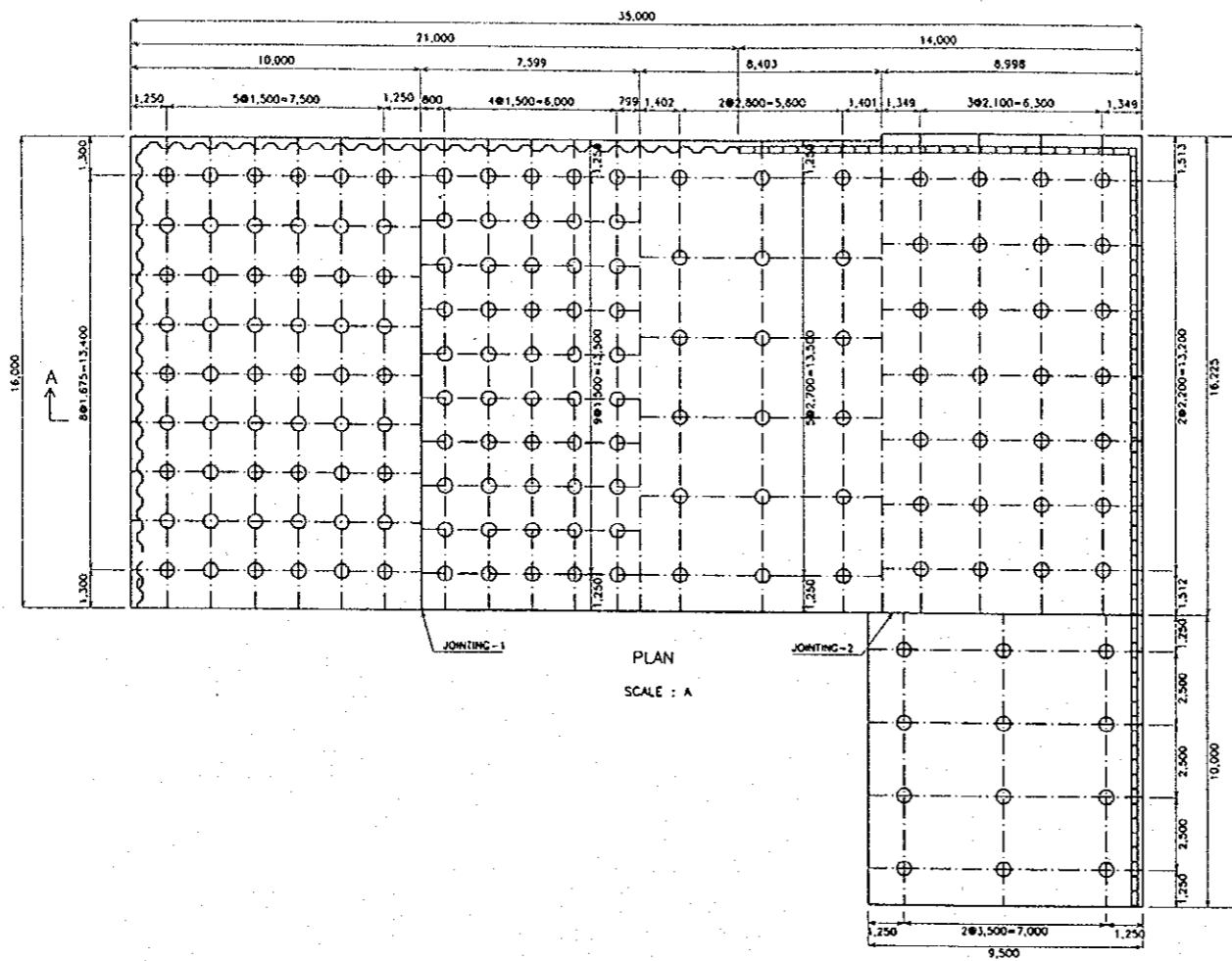


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

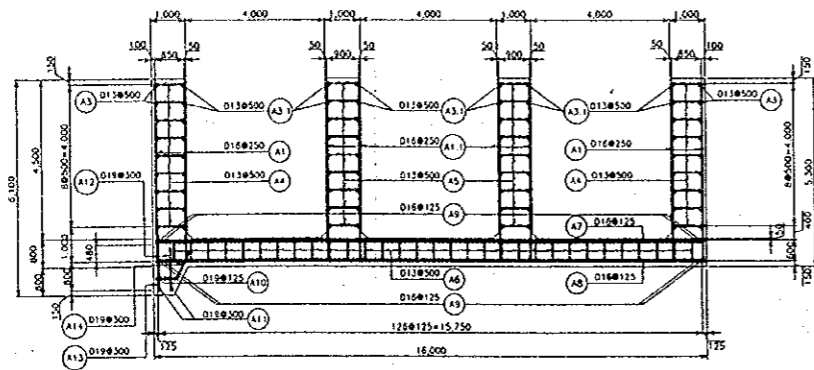
Fig. 6.3.25 (2/2)

ASIN PUMPING STATION (2/2)

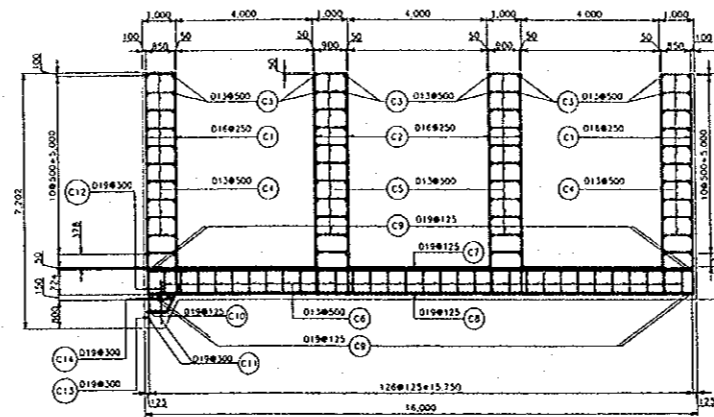


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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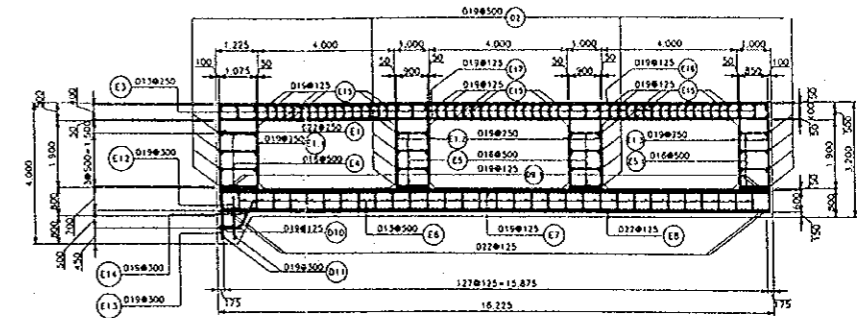
Fig. 6.3.26
 ASIN PUMPING STATION PILE FOUNDATION



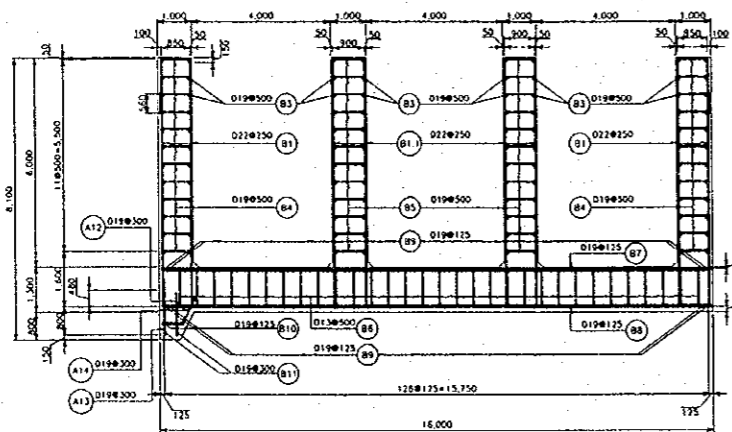
SECTION A-A
SCALE A



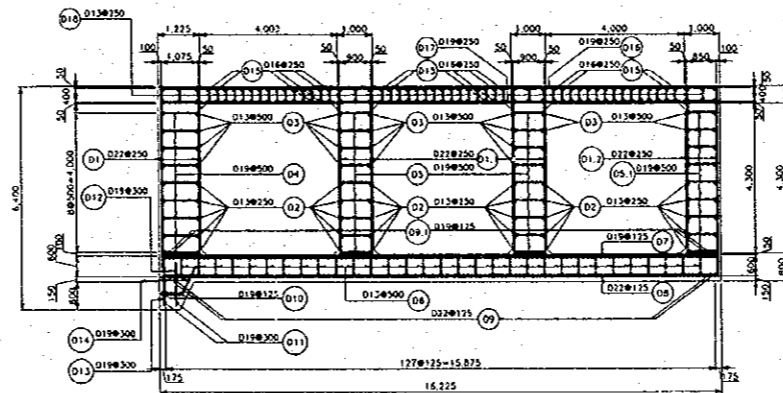
SECTION C-C
SCALE A



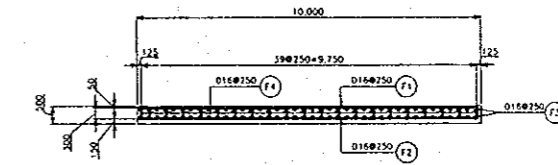
SECTION E-E
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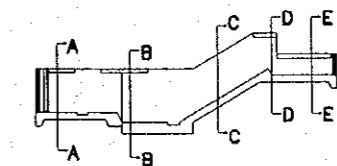
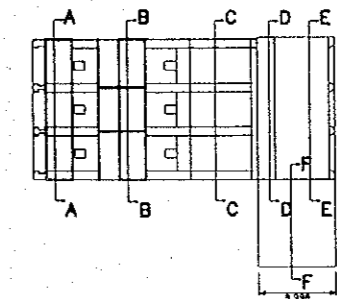
SECTION B-B
SCALE A



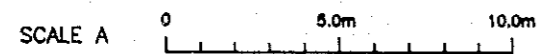
SECTION D-D
SCALE A



SECTION F-F
SCALE A



KEY PLAN

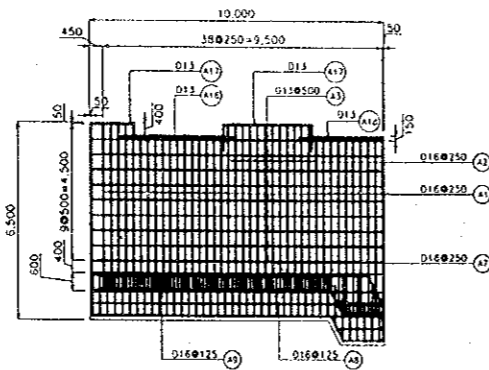


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

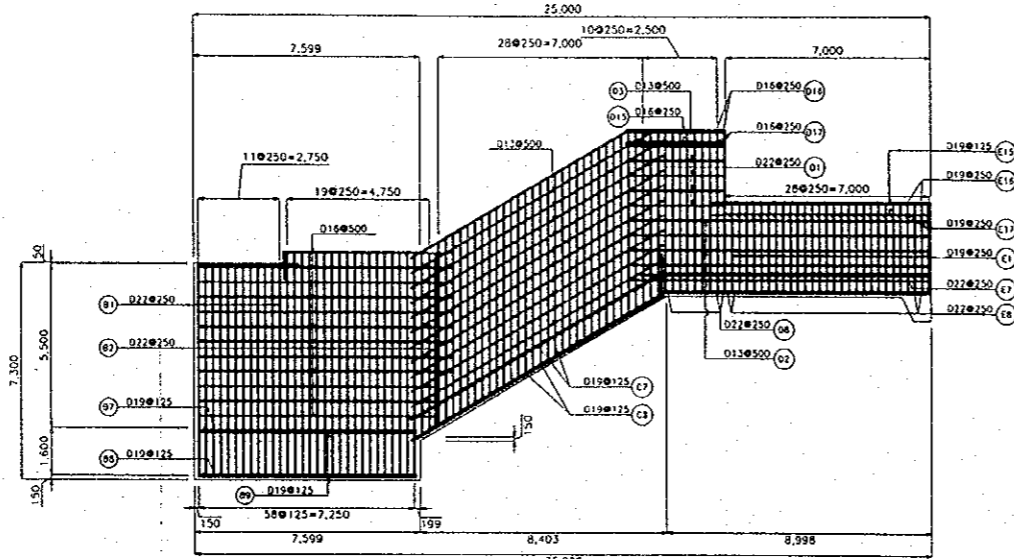
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Fig. 6.3.27 (1/2)

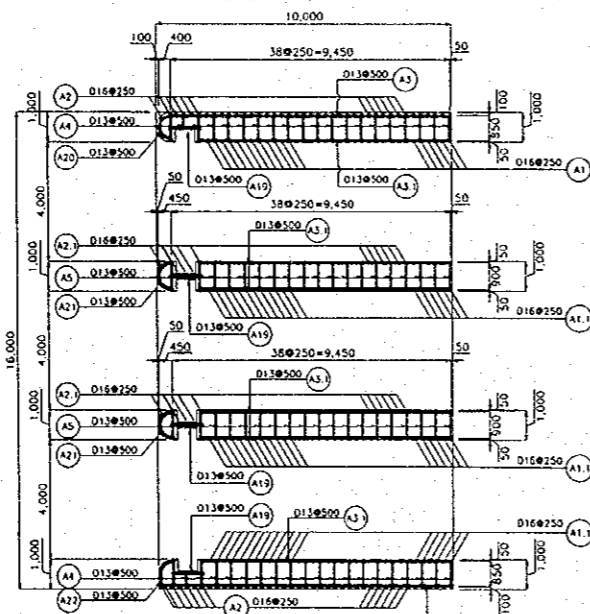
ASIN PUMPING STATION REINFORCING BAR ARRANGEMENT (1/2)



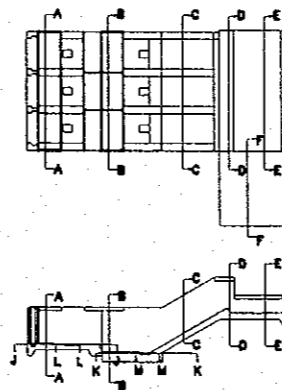
SECTION G-G
SCALE A



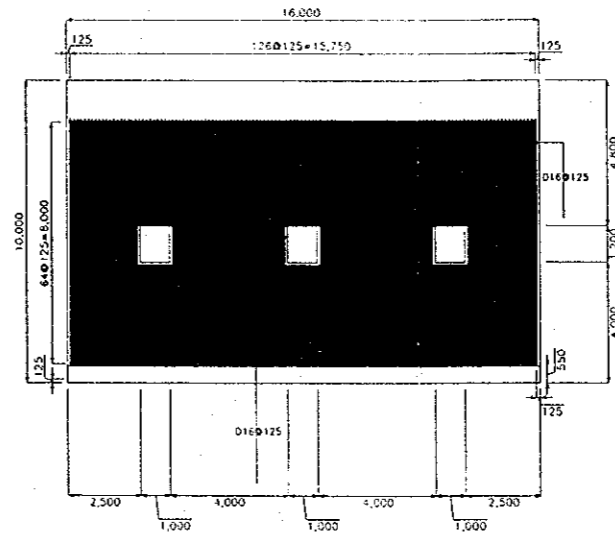
SECTION H-H
SCALE A



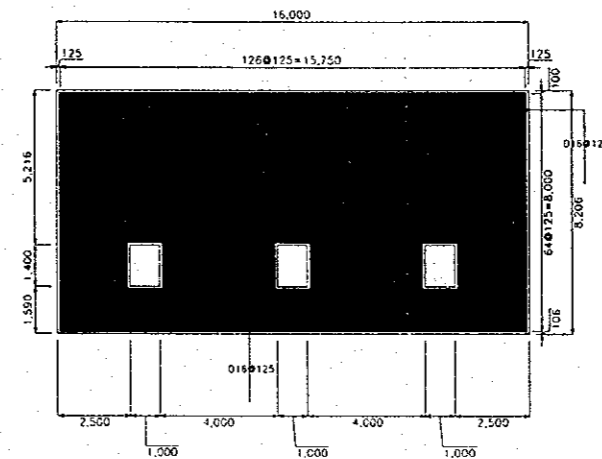
SECTION I-I
SCALE A



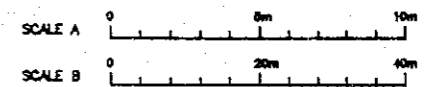
KEY PLAN
SCALE B



SECTION J-J
SCALE A



SECTION K-K
SCALE A

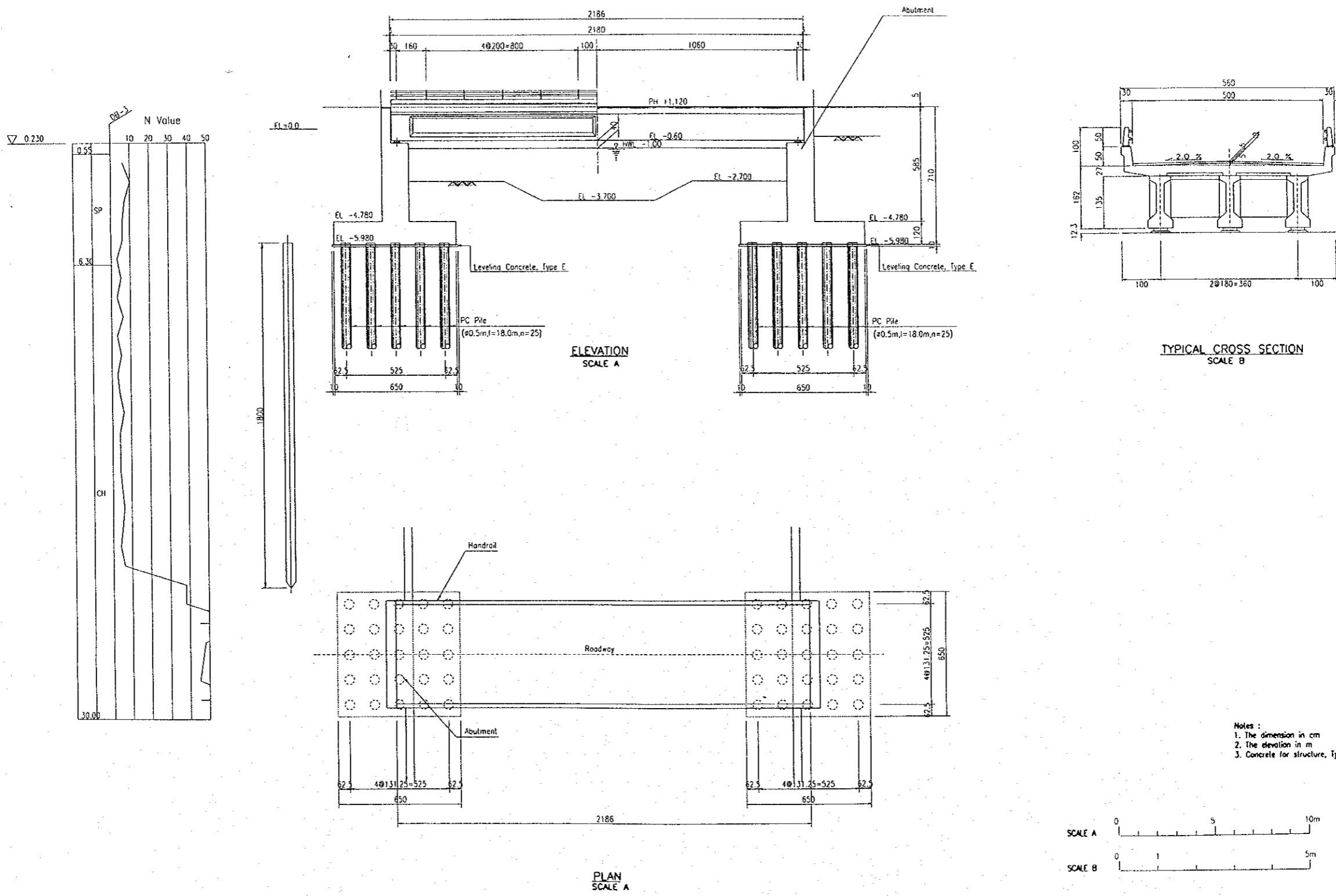


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

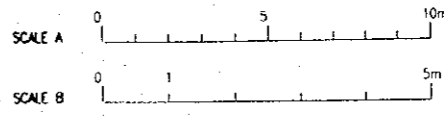
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.3.27 (2/2)

ASIN PUMPING STATION REINFORCING BAR ARRANGEMENT (2/2)



- Notes:
1. The dimension in cm
 2. The elevation in m
 3. Concrete for structure, Type C1

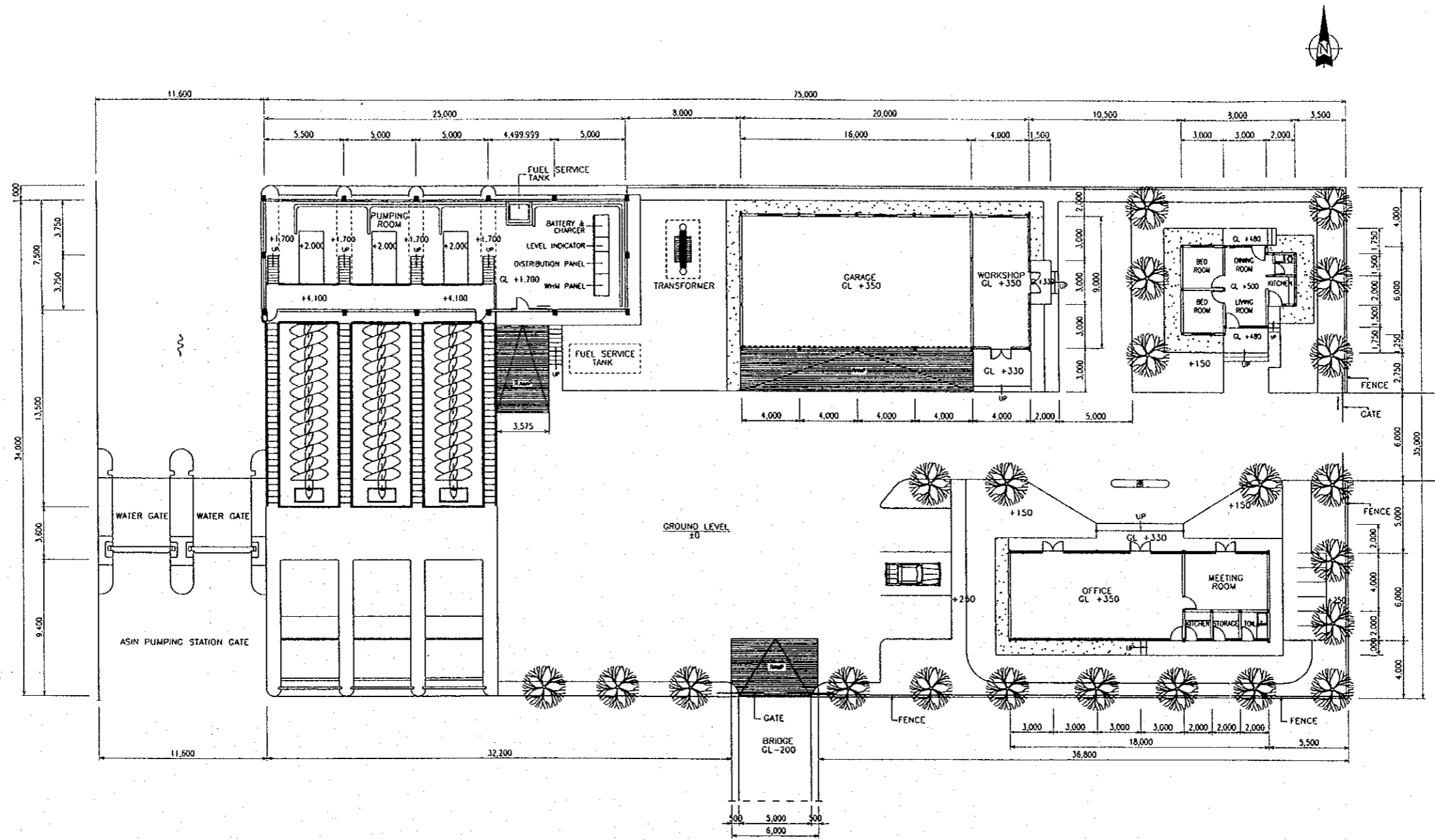


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

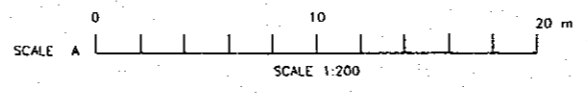
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.3.28

ASIN PUMPING STATION BRIDGE

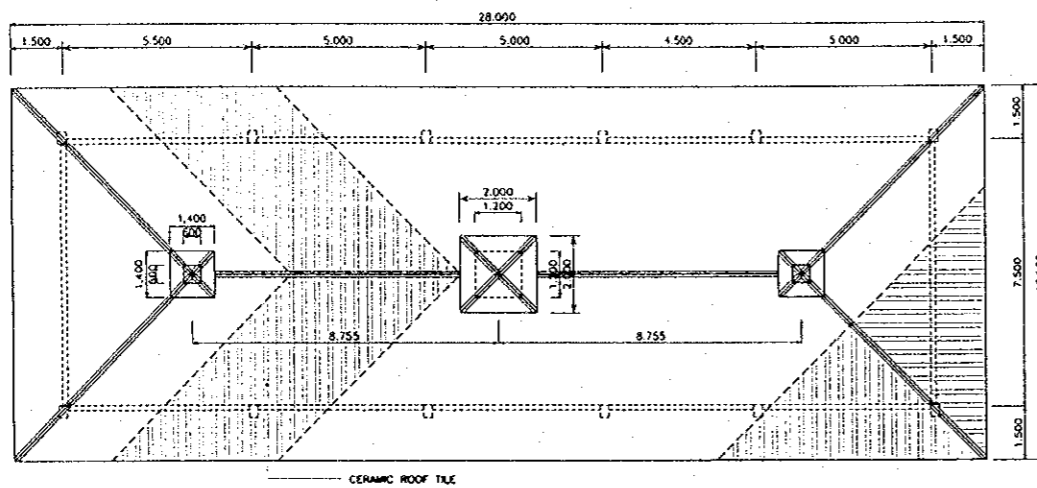


SITE PLAN
SCALE A

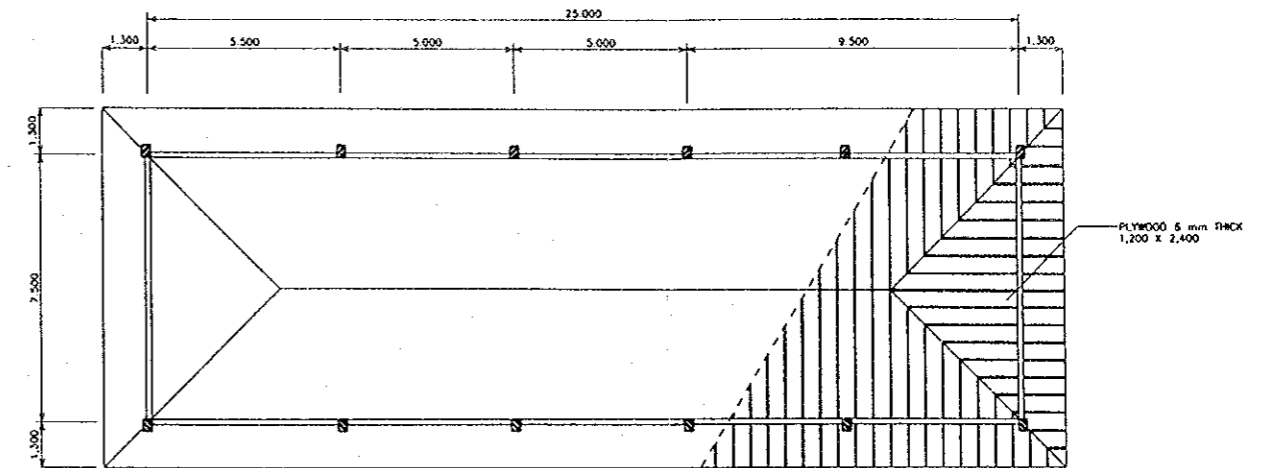


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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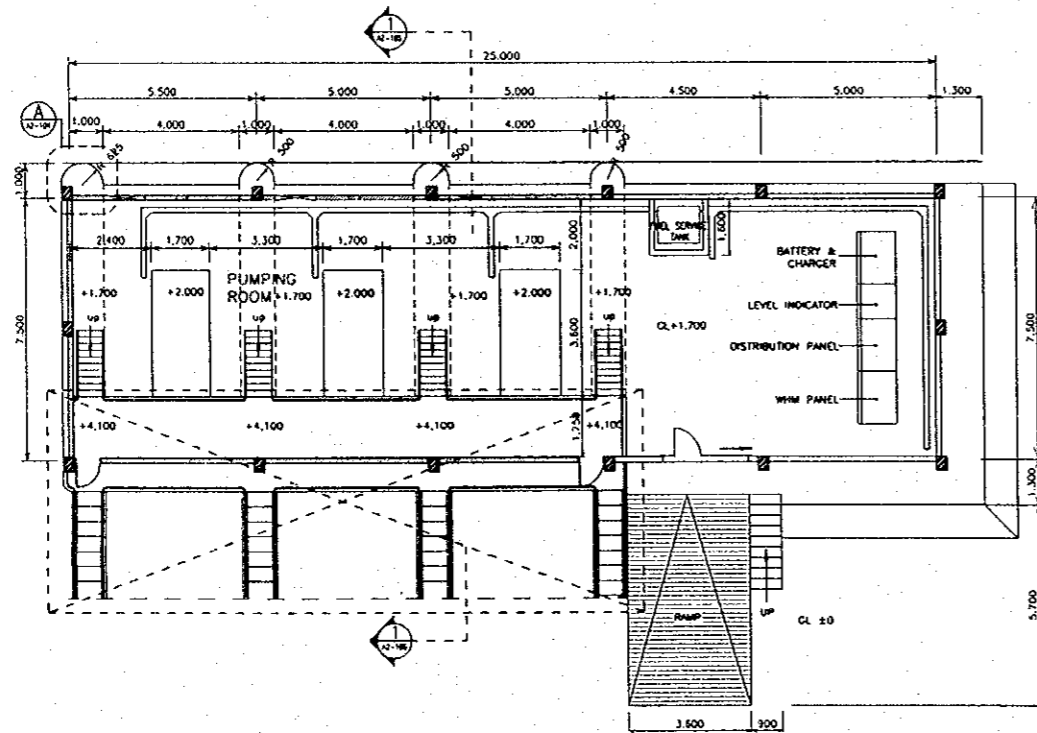
Fig. 6.3.29
LAYOUT OF ASIN PUMPING STATION COMPLEX



ROOF PLAN
SCALE A A2/104

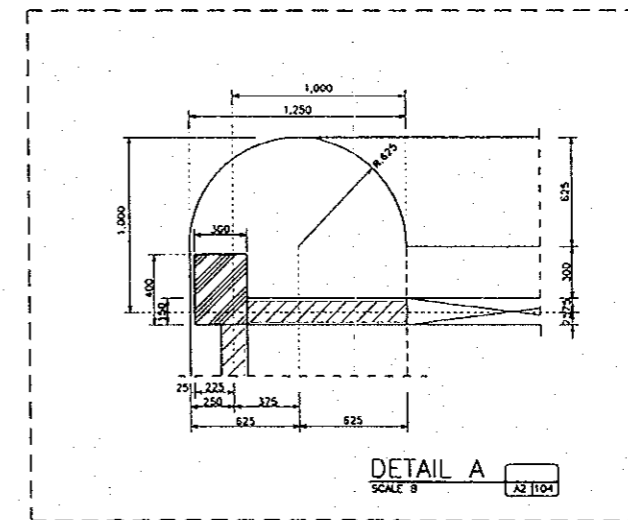


REFLECTED CEILING PLAN
SCALE A A2/104

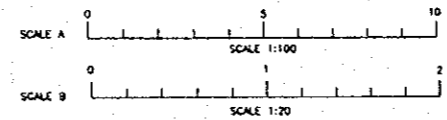


FLOOR PLAN
SCALE A A2/104

NOTES :
1. STRUCTURE IS CIVIL WORK.
2. DASHED MARK IS CIVIL WORK.

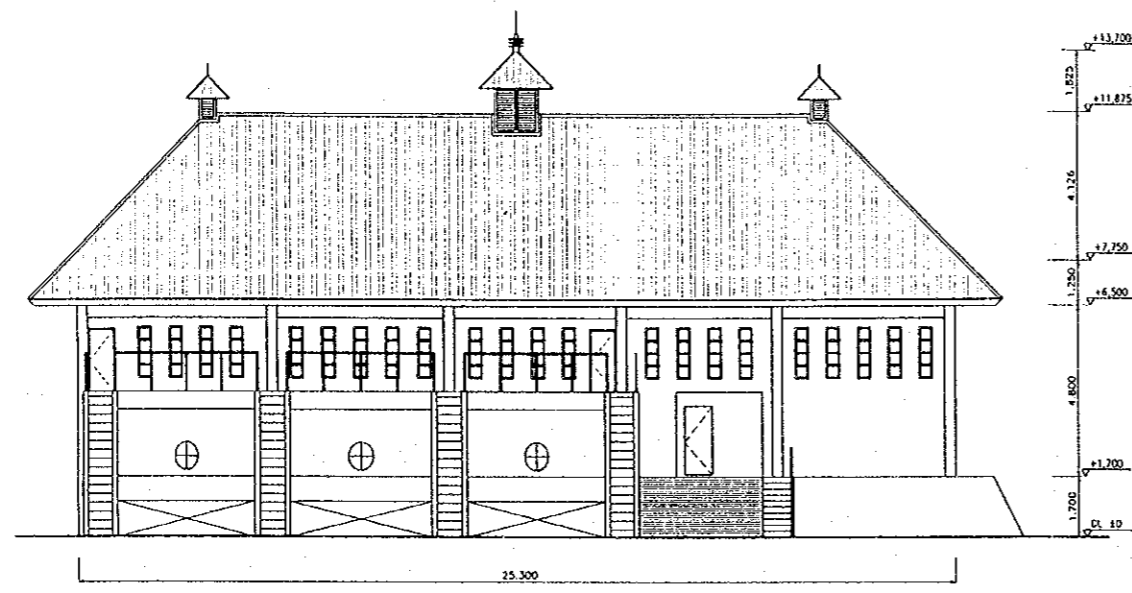


DETAIL A
SCALE B A2/104

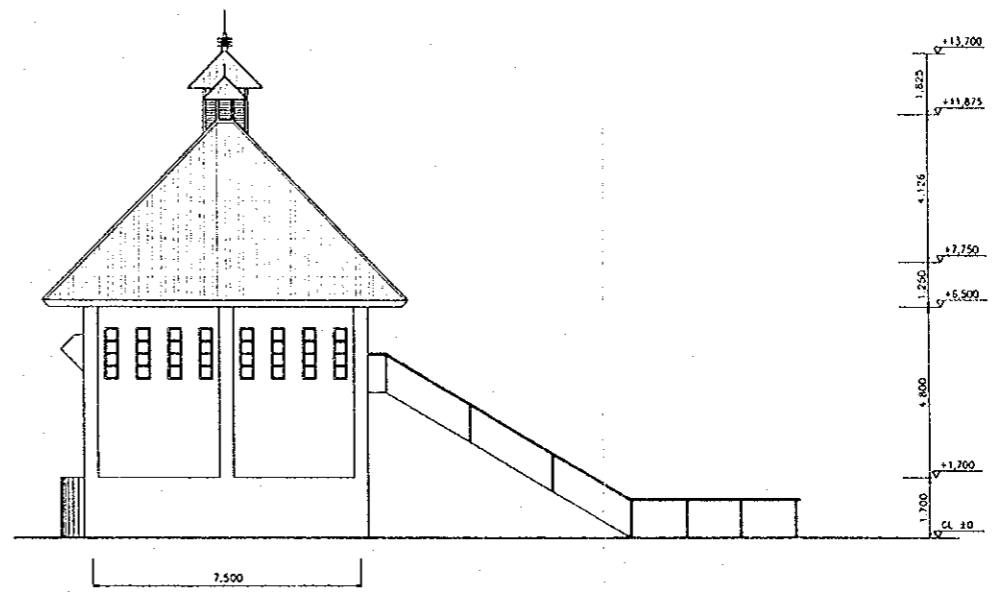


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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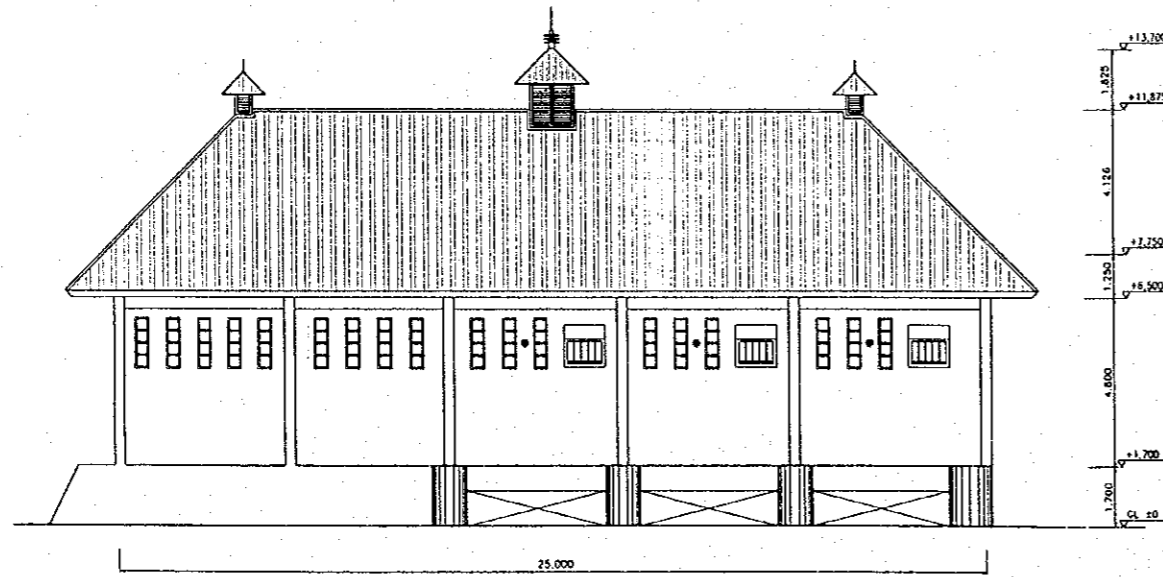
Fig. 6.3.30 (1/2)
PUMP CONTROL BUILDING (1/2)



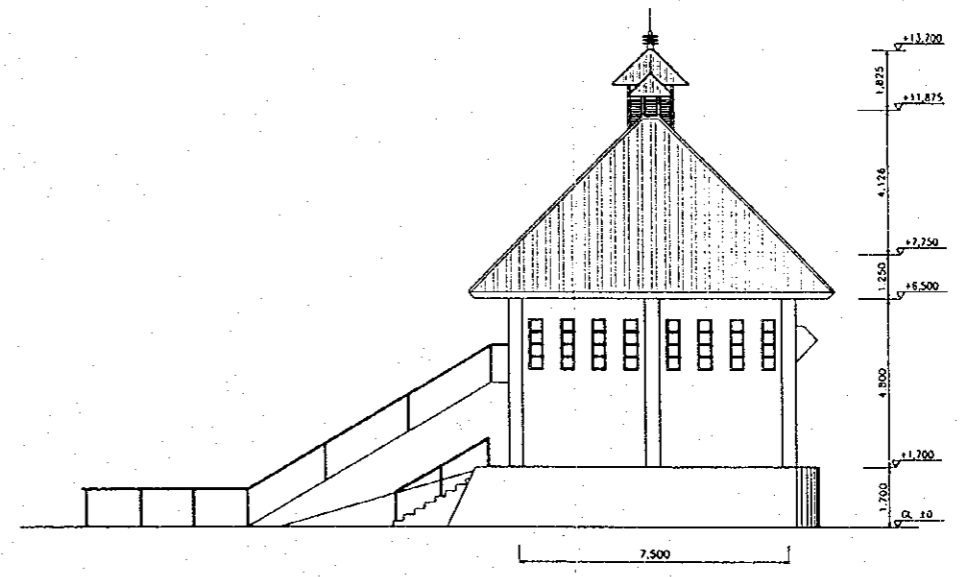
SOUTH ELEVATION
SCALE A



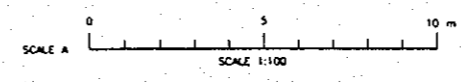
WEST ELEVATION
SCALE A



NORTH ELEVATION
SCALE A



EAST ELEVATION
SCALE A

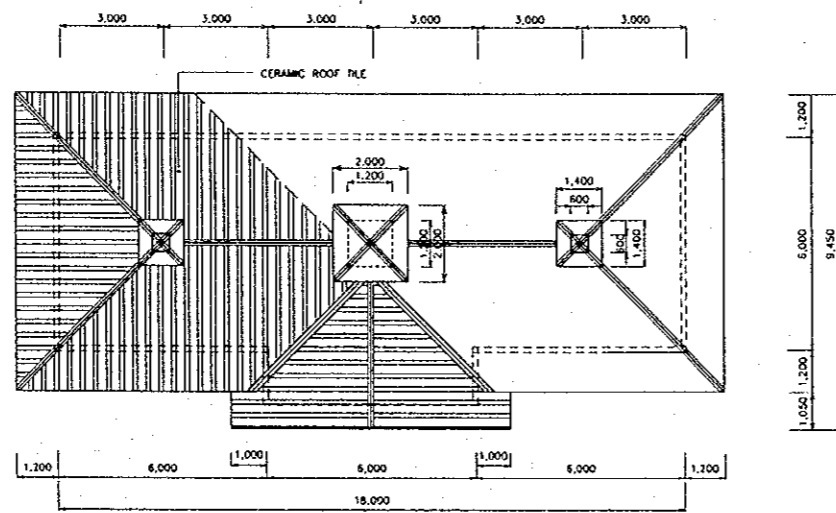


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN
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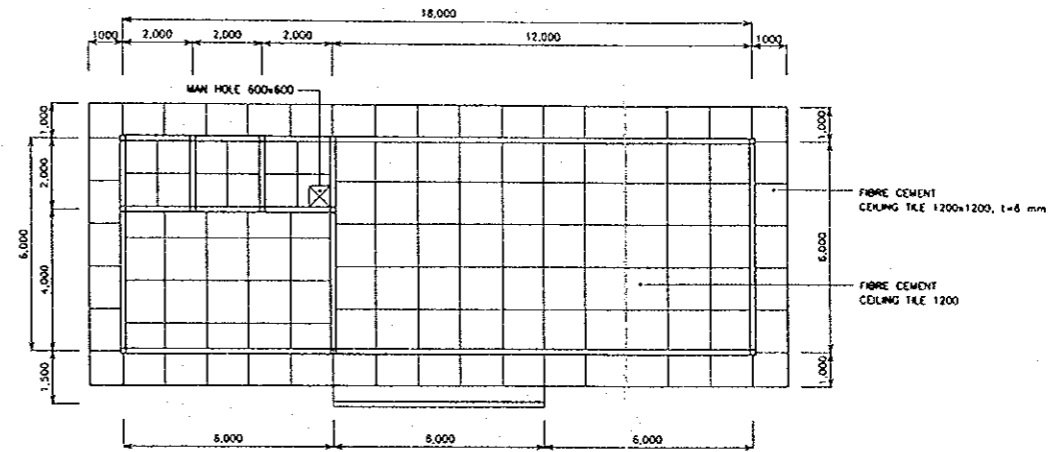
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Fig. 6.3.30 (2/2)

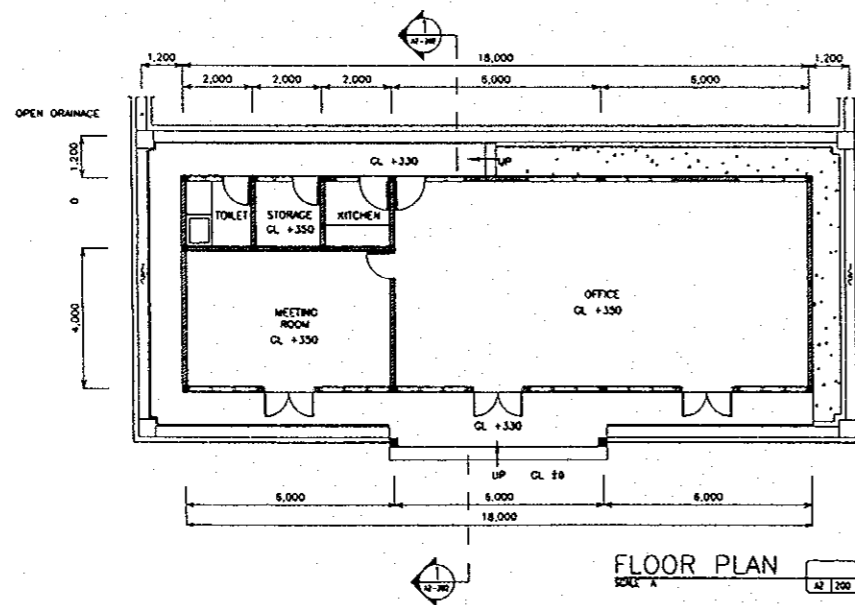
PUMP CONTROL BUILDING (2/2)



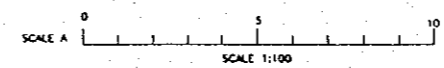
ROOF PLAN
SCALE A A2 1/200



REFLECTED CEILING PLAN
SCALE A A2 1/200

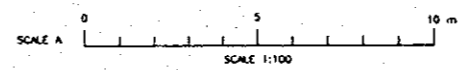
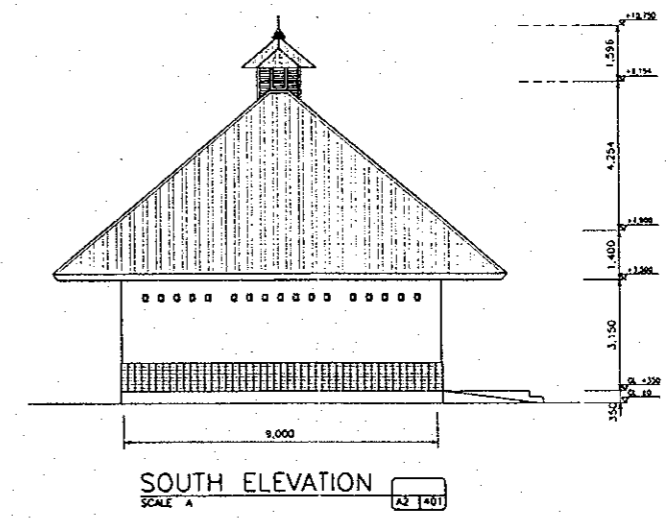
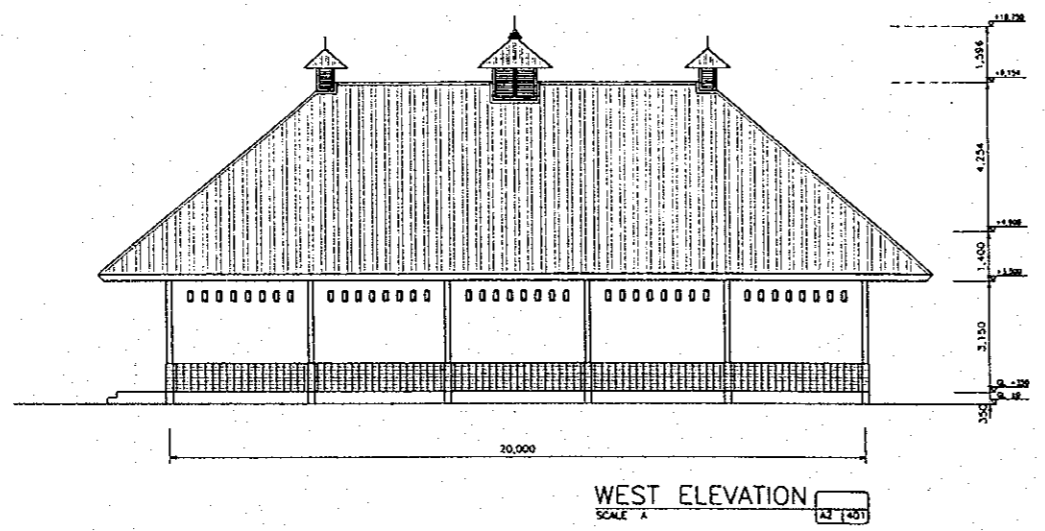
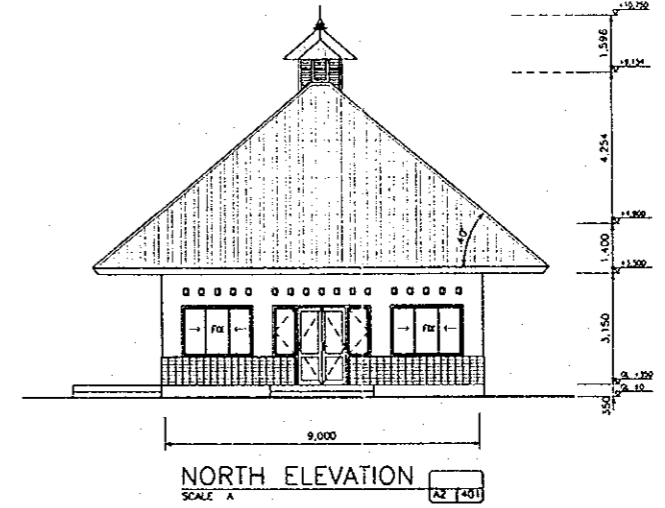
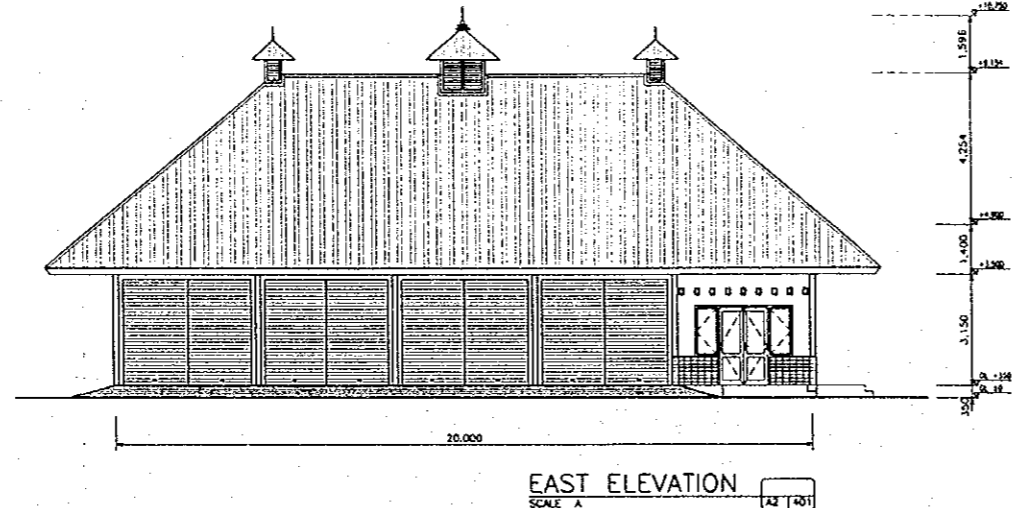


FLOOR PLAN
SCALE A A2 1/200



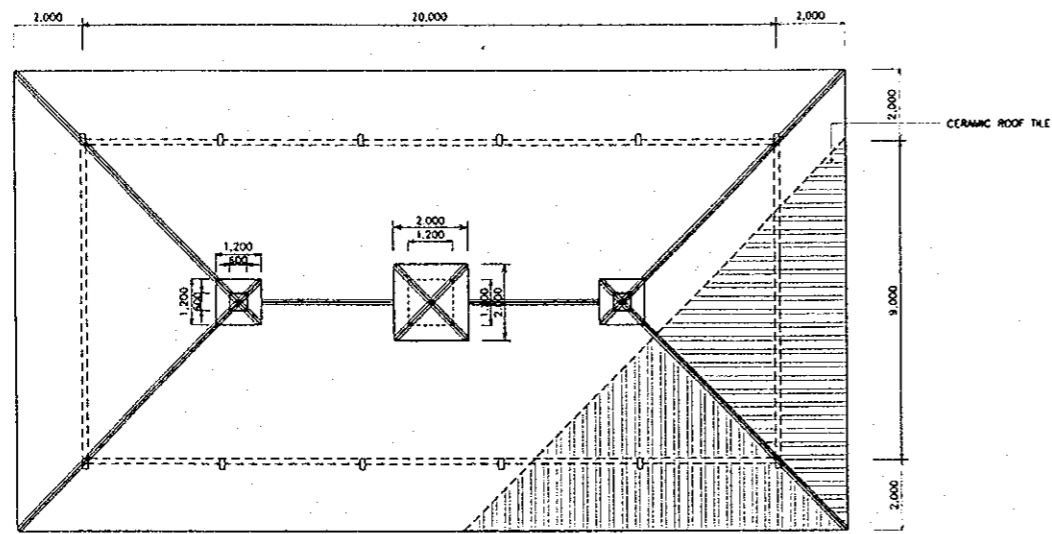
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN
DRAINAGE AND WATER RESOURCES DEVELOPMENT
IN SEMARANG IN THE REPUBLIC OF INDONESIA
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Fig. 6.3.31 (1/2)
MANAGEMENT OFFICE (1/2)

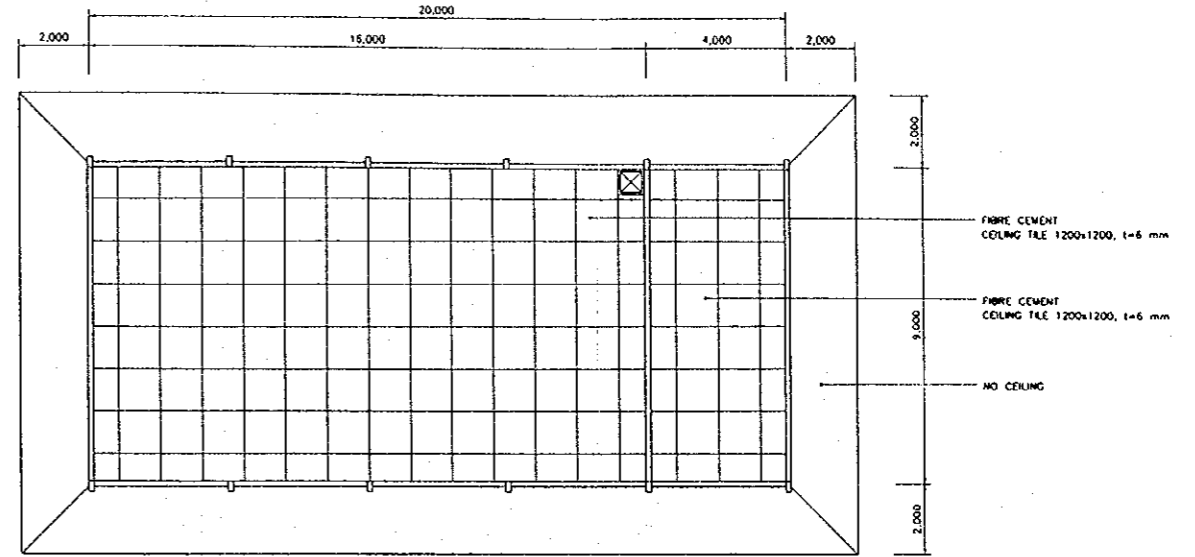


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
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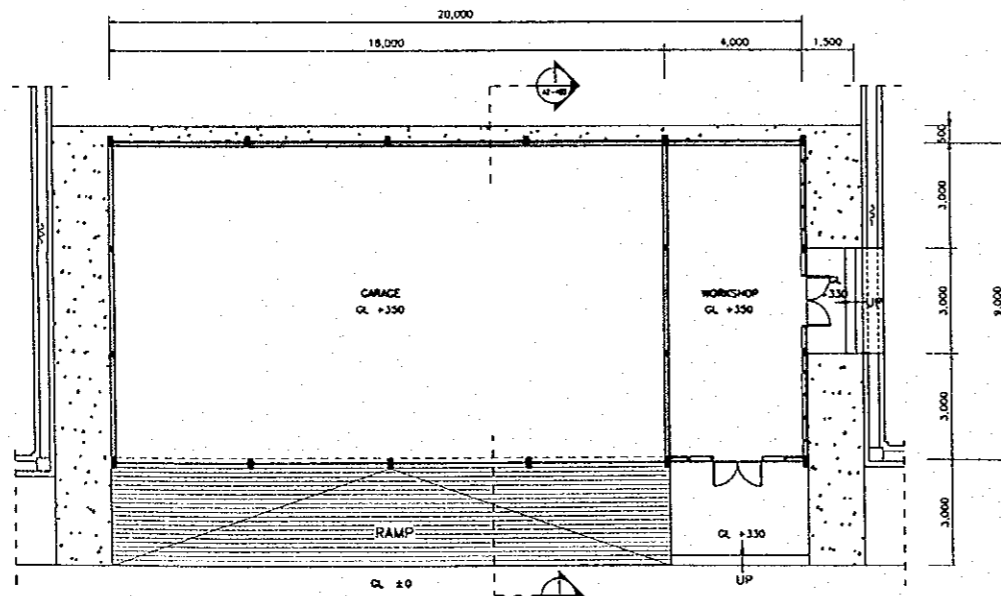
Fig. 6.3.31 (2/2)
MANAGEMENT OFFICE (2/2)



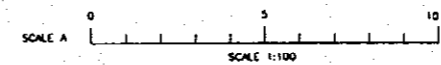
ROOF PLAN
SCALE A A2 1/200



REFLECTED CEILING PLAN
SCALE A A2 1/200



FLOOR PLAN
SCALE A A2 1/200



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

JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 6.3.32

GARAGE