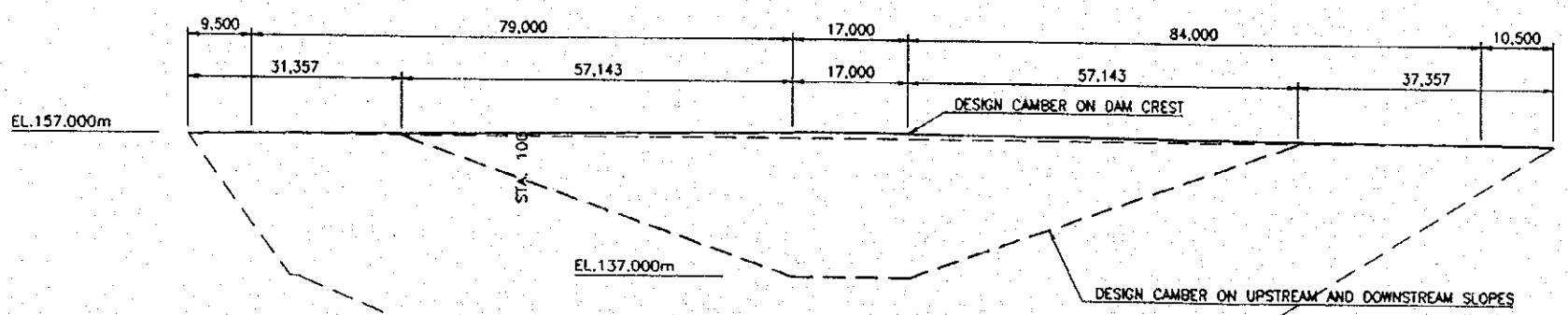
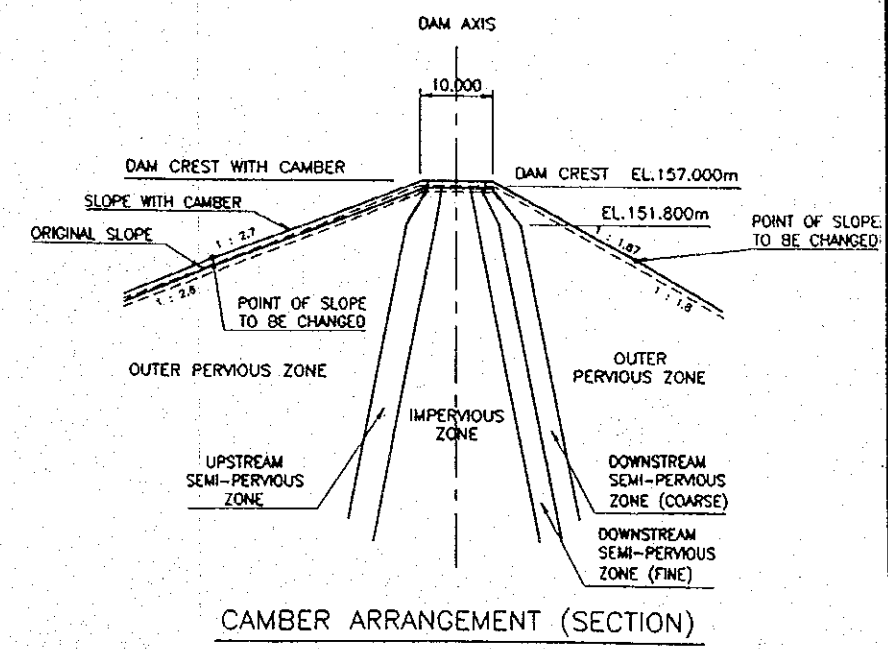


**LEGEND**

- rd : RIVER DEPOSIT
- td : TALUS DEPOSIT
- Su : UPPER SEDIMENTARY ROCK UNIT
- Pu : UPPER PYROCLASTIC ROCK UNIT
- Sm : MIDDLE SEDIMENTARY ROCK UNIT
- Pl : LOWER PYROCLASTIC ROCK UNIT



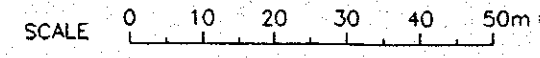
STA. NO.	CAMBER (mm)	GRADE
50.5	0.0	$i=1.77\%$ $L=9.5m$
60.0	18.8	
70.0	24.8	
80.0	32.8	
90.0	40.8	
100.0	48.8	$i=0.8\%$ $L=79.0m$
110.0	56.8	
120.0	64.8	
130.0	72.8	
140.0	80.0	
150.0	80.0	LEVEL $L=17.0m$
160.0	78.8	
170.0	80.8	
180.0	80.8	
190.0	52.8	$i=0.8\%$ $L=84.0m$
200.0	44.8	
210.0	36.8	
220.0	28.8	
230.0	20.8	
240.0	12.8	$i=1.27\%$ $L=10.5m$
250.0	0.6	
250.5	0.0	



**NOTES**

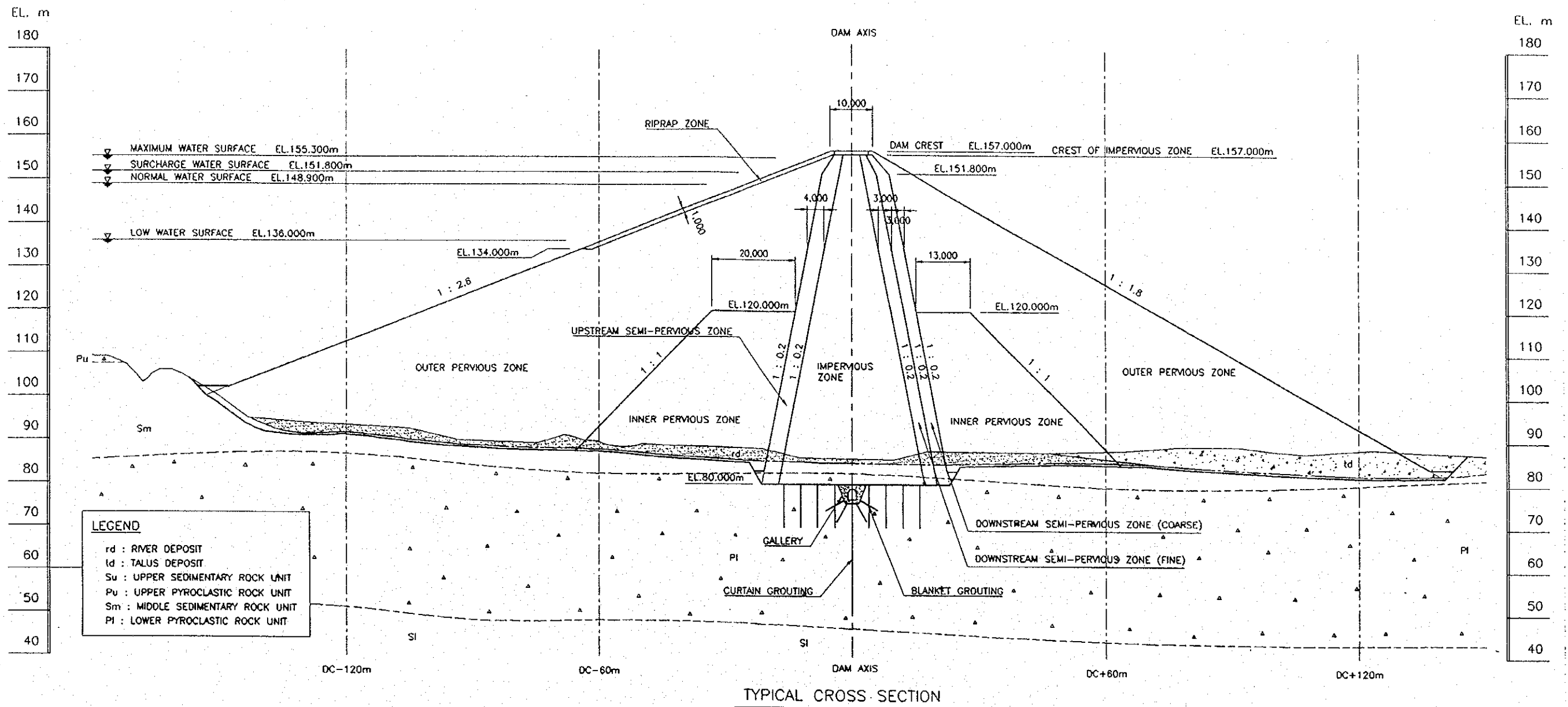
- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE NOTED.
- THE GEOLOGICAL INFORMATION IS ONLY FOR REFERENCE.

**CAMBER ARRANGEMENT (PROFILE)**



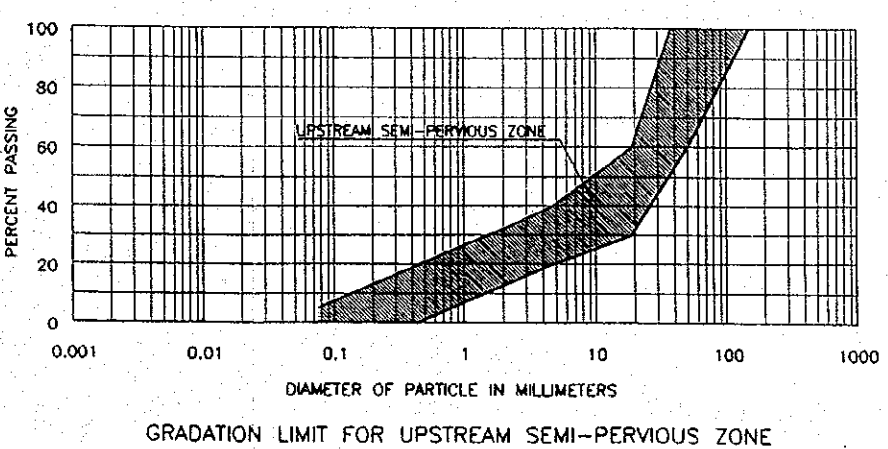
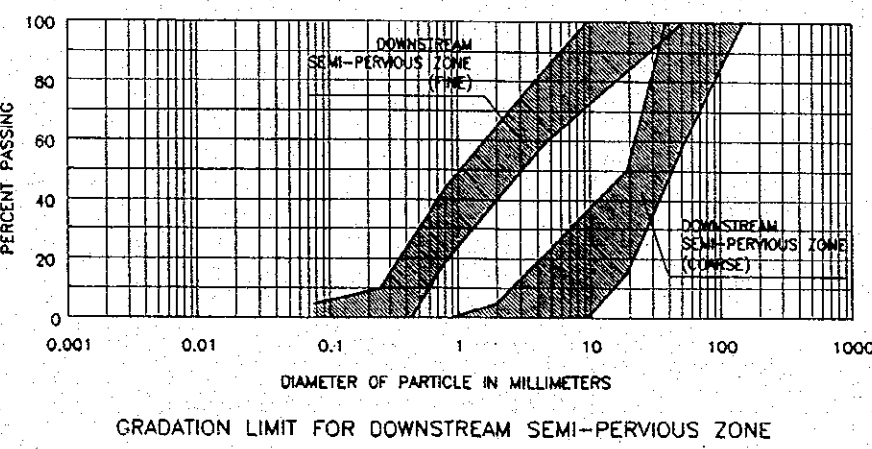
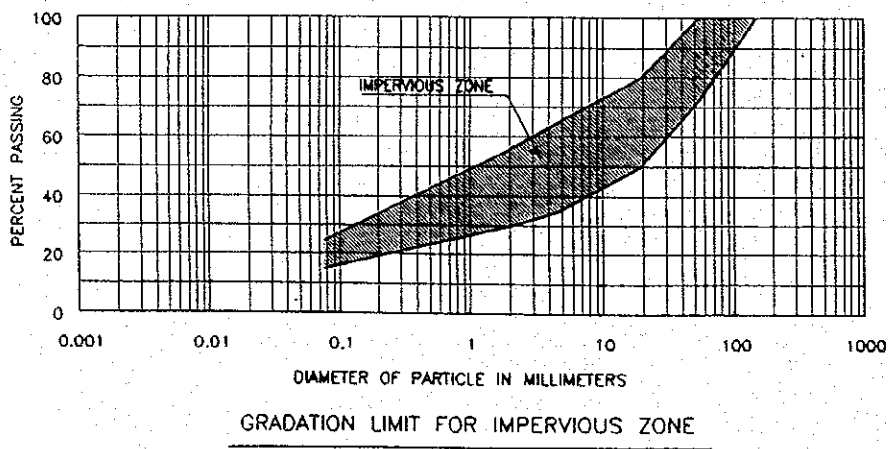
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA  
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**Fig. 2.13**  
Profile along Jatibarang Multipurpose Dam Axis



**LEGEND**

rd : RIVER DEPOSIT  
 ld : TALUS DEPOSIT  
 Su : UPPER SEDIMENTARY ROCK UNIT  
 Pu : UPPER PYROCLASTIC ROCK UNIT  
 Sm : MIDDLE SEDIMENTARY ROCK UNIT  
 PI : LOWER PYROCLASTIC ROCK UNIT



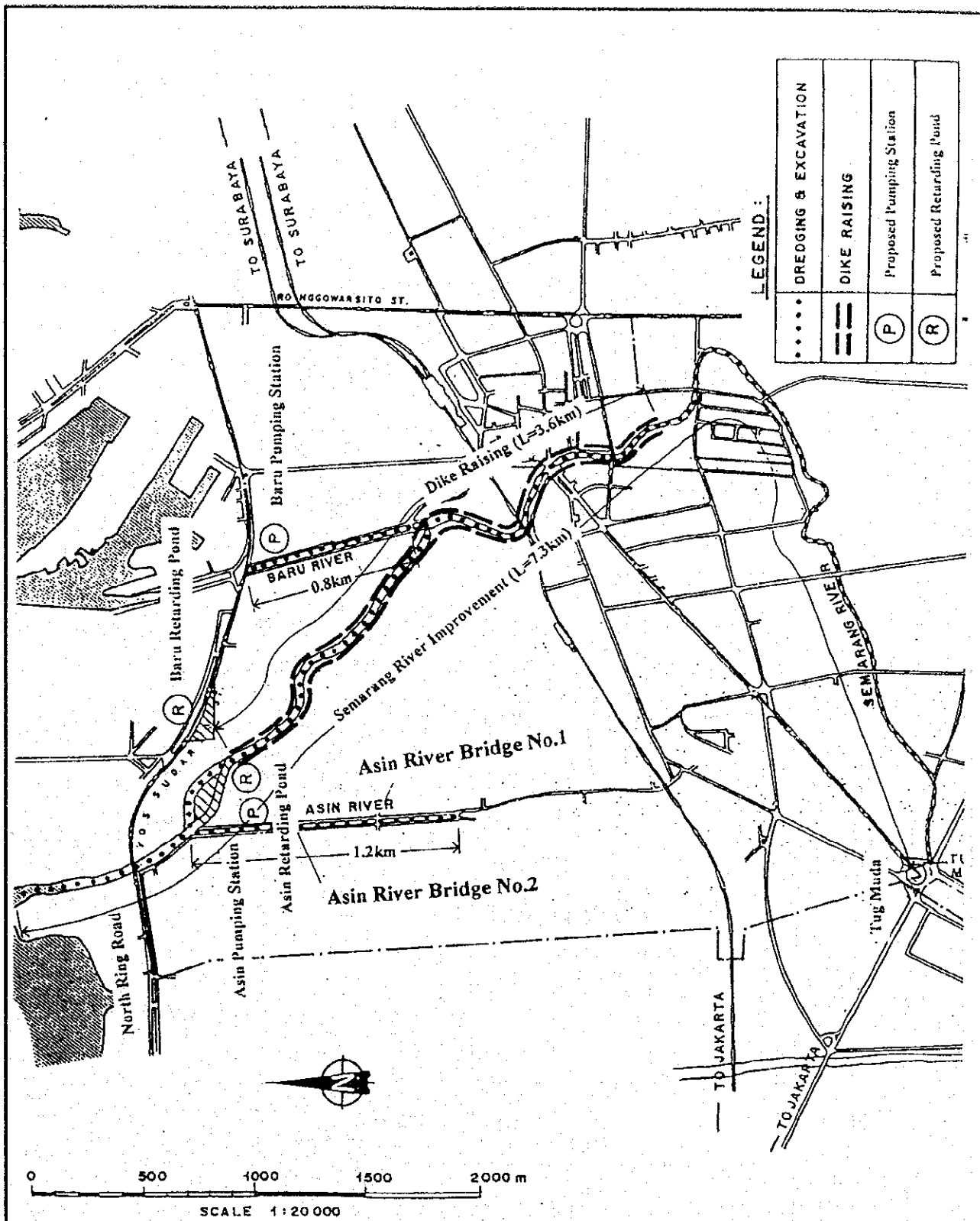
- NOTES**
1. INNER AND OUTER PERVIOUS ZONES AND RIP RAP ARE GRADATION AS PER SPECIFICATION.
  2. THE CAMBER IS NOT SHOWN IN THIS DRAWING.
  3. THE GEOLOGICAL INFORMATION IS ONLY FOR REFERENCE.

SCALE 0 10 20 30 40 50m

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Fig. 2.14  
 Typical Cross Section of Jatibarang Multipurpose Dam





LEGEND :

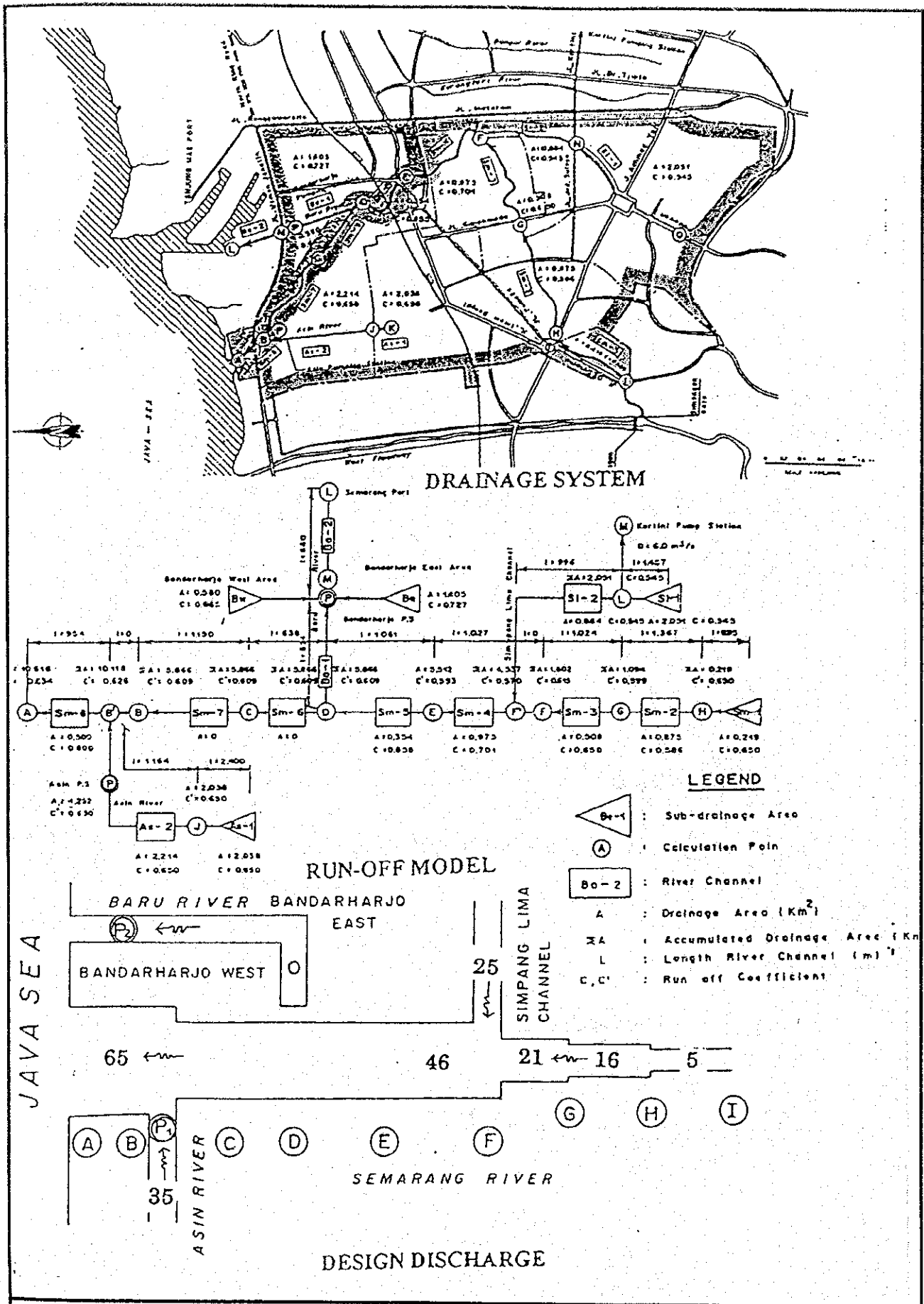
.....	DREDGING & EXCAVATION
—————	DIKE RAISING
(P)	Proposed Pumping Station
(R)	Proposed Retarding Pond

0 500 1000 1500 2000 m  
SCALE 1:20 000

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Fig. 2.15  
Location of Proposed Drainage Improvement Works

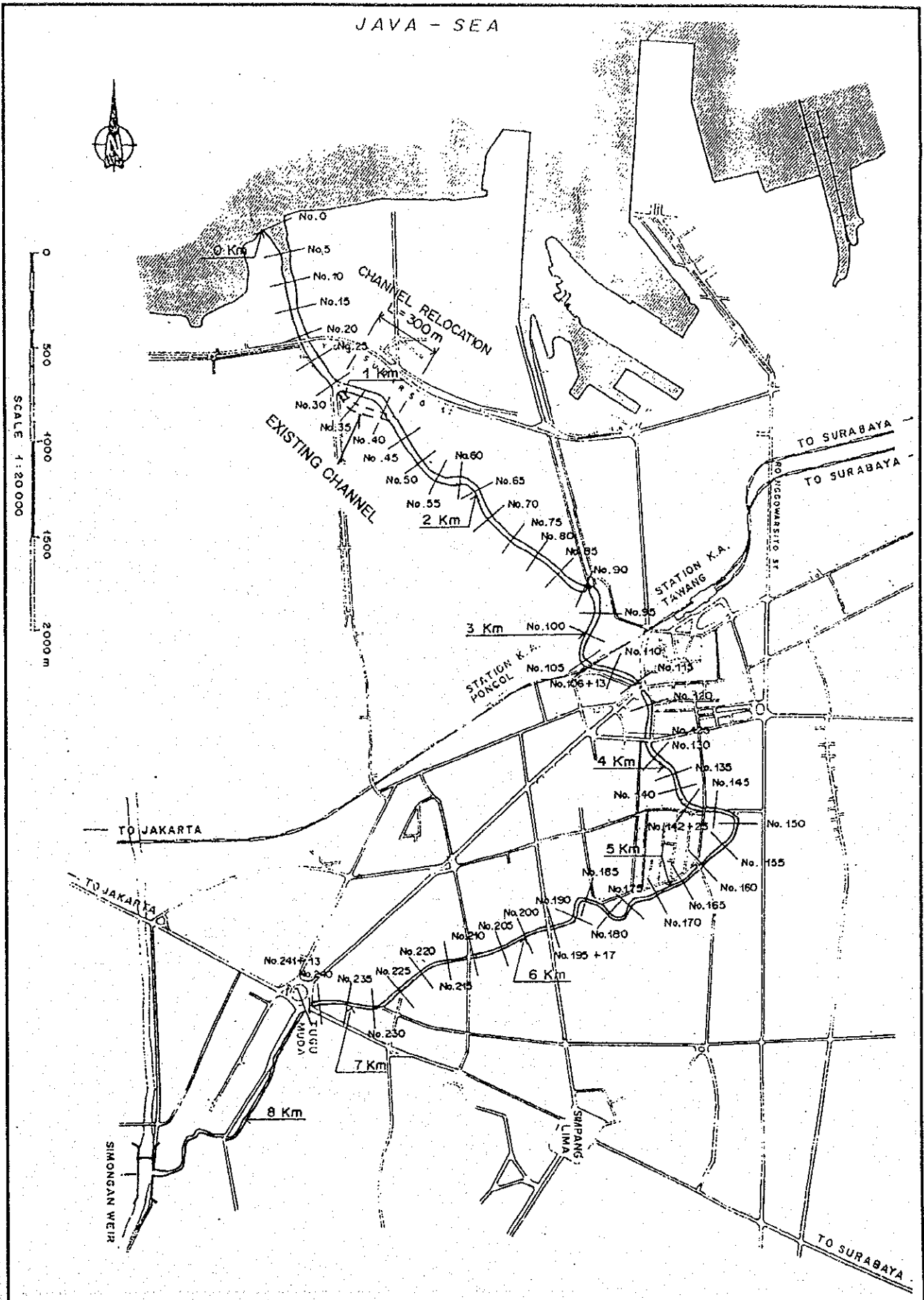
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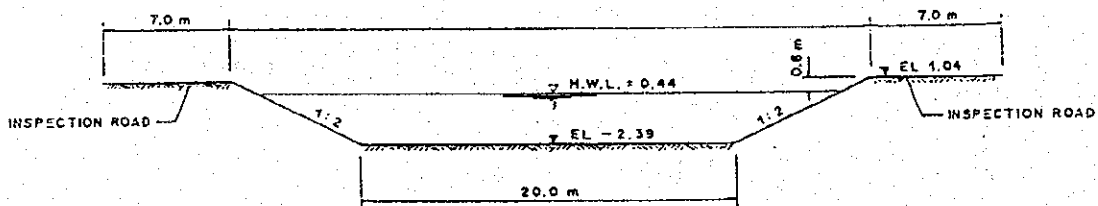
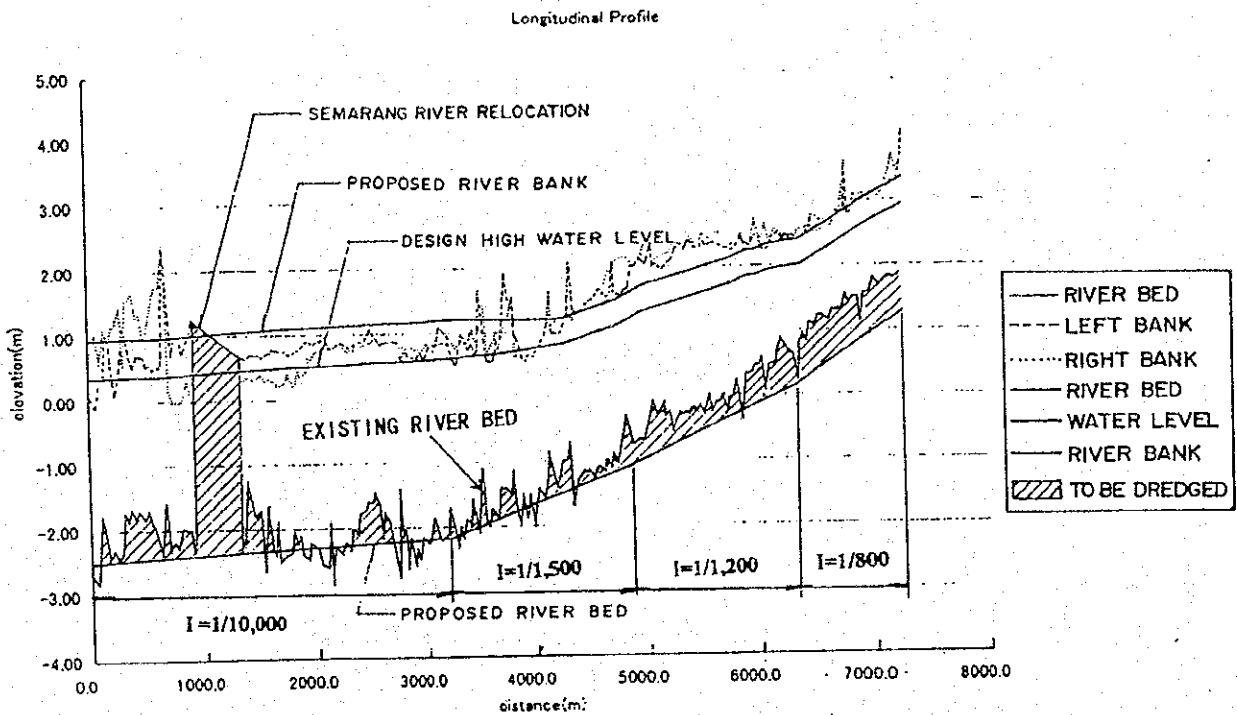
Fig. 2.16  
Distribution of Design Discharge for Urban Drainage



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

Fig. 2.17  
Plan of Semarang River Improvement

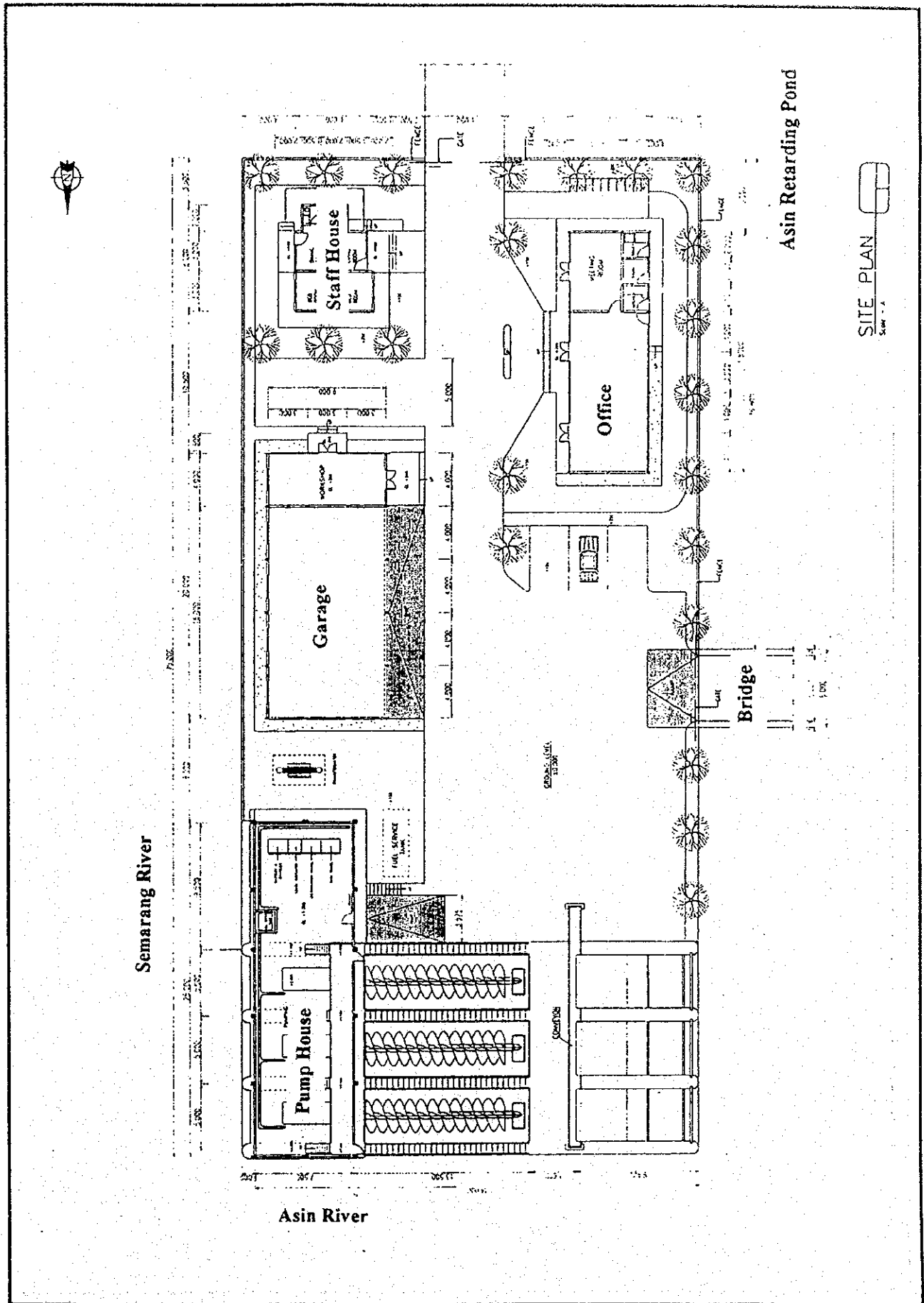
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Fig. 2.18  
Design Longitudinal Profile of Semarang River Improvement

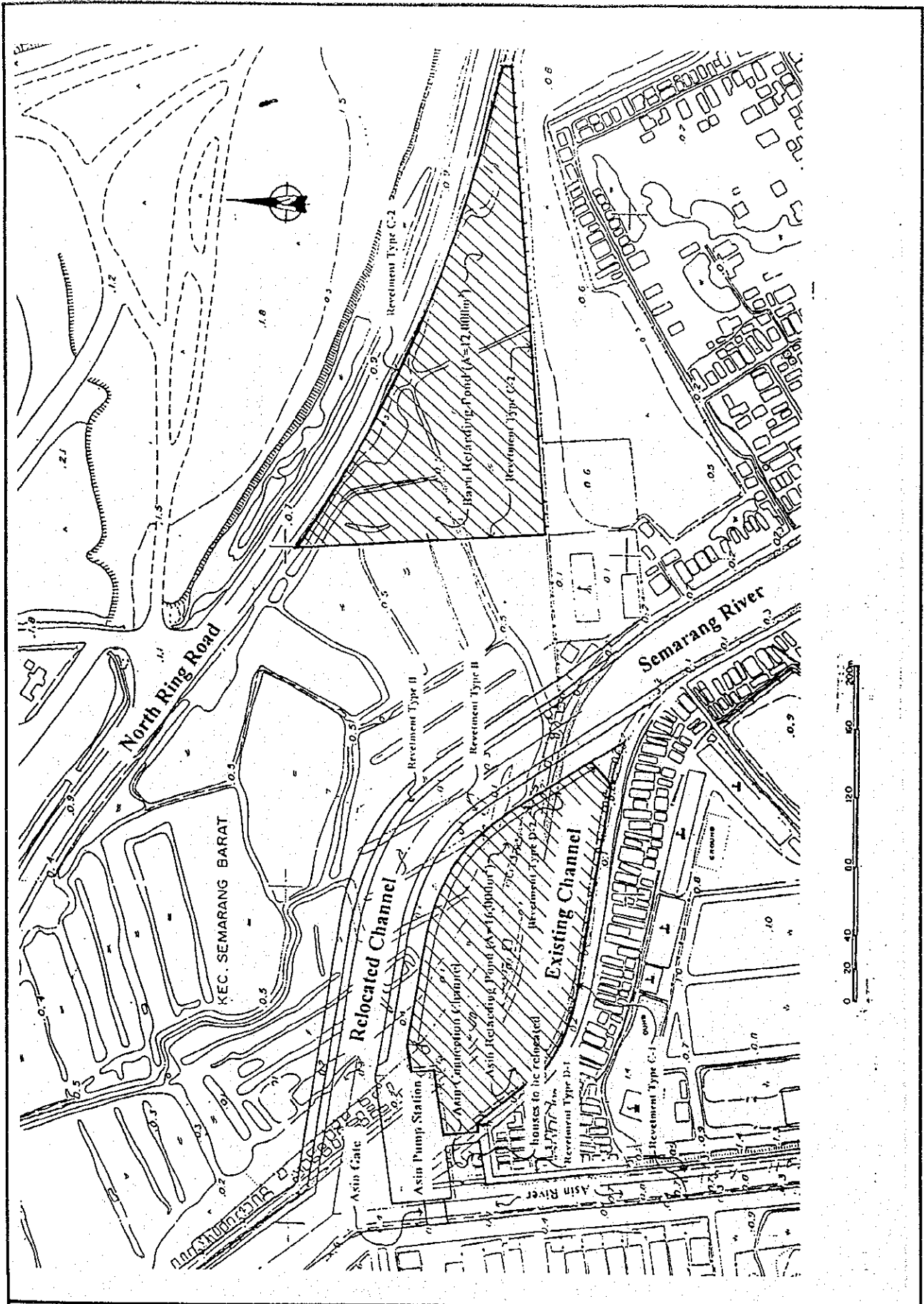


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.19  
Layout of Asin Pumping Station

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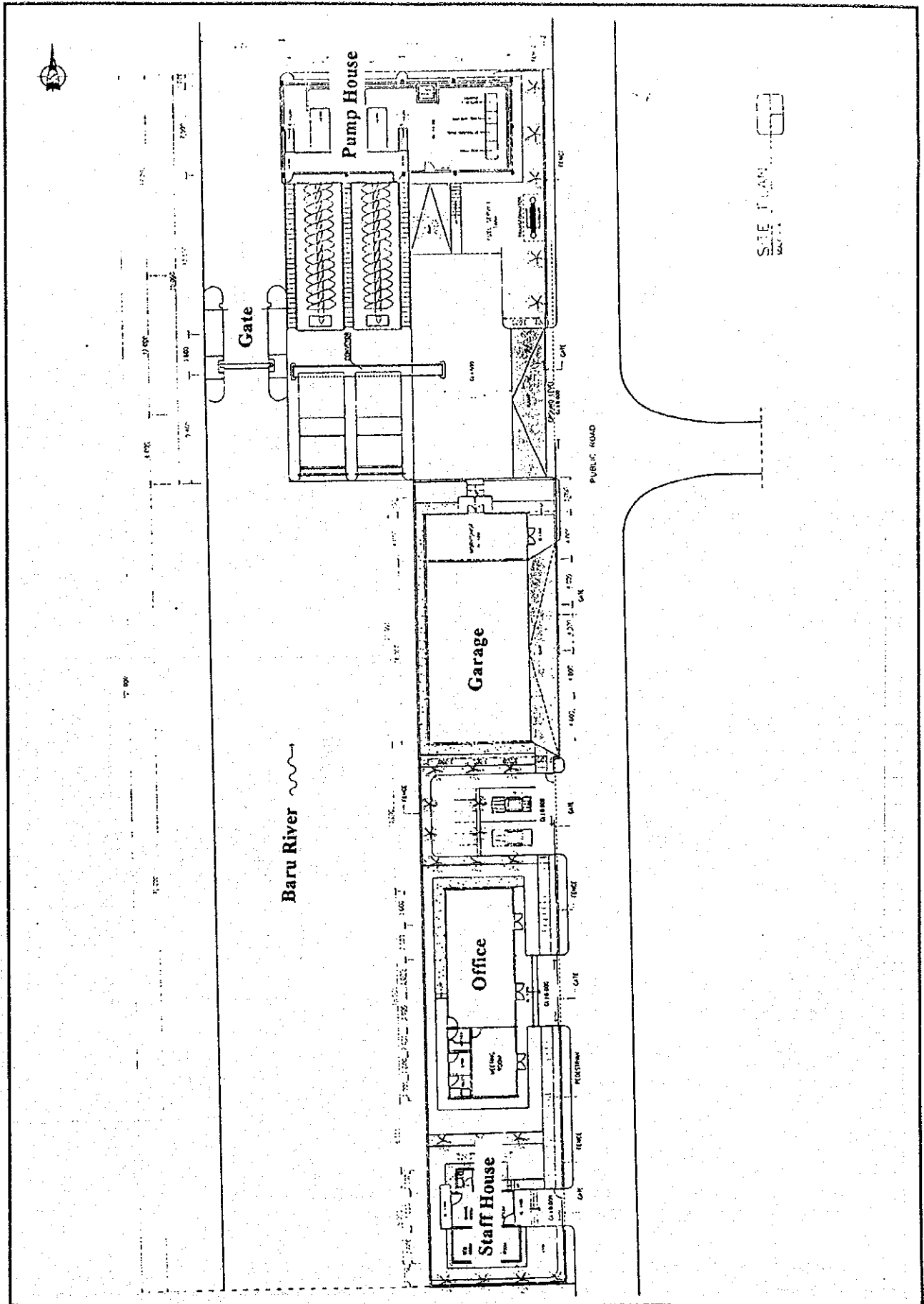




THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.20  
Layout of Asin and Baru Retarding Pond

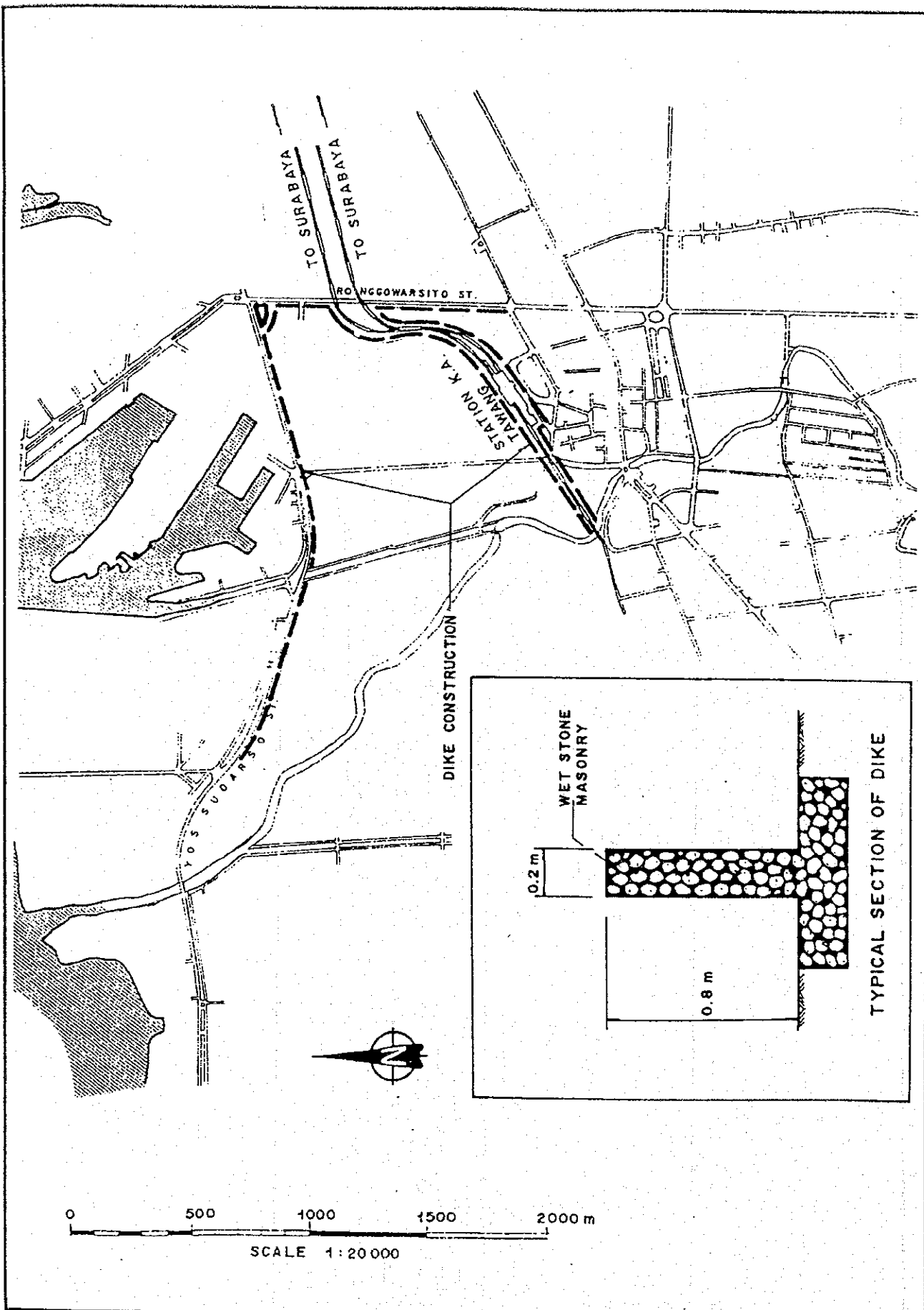
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THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.21  
Layout of Baru Pumping Station

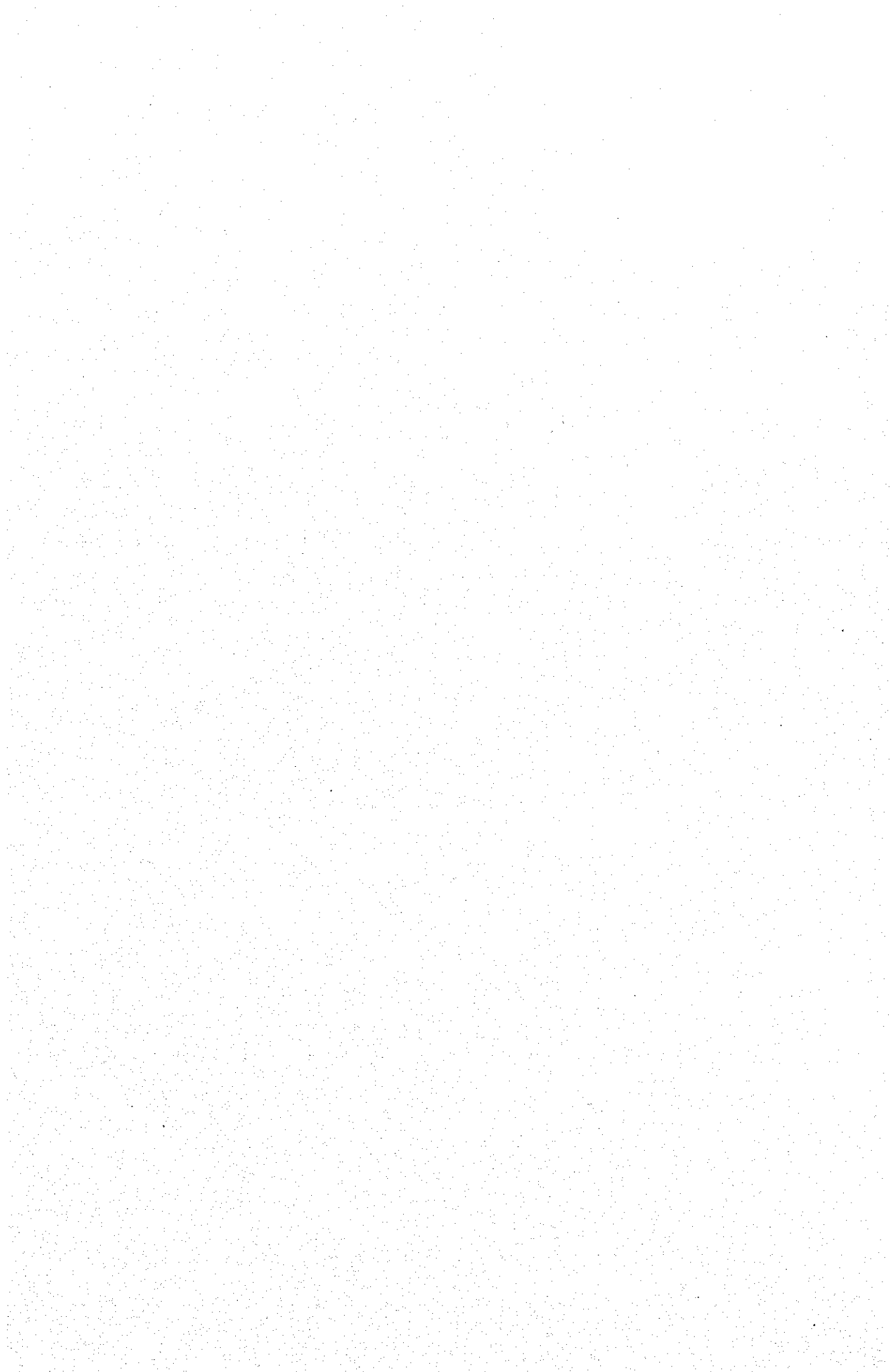
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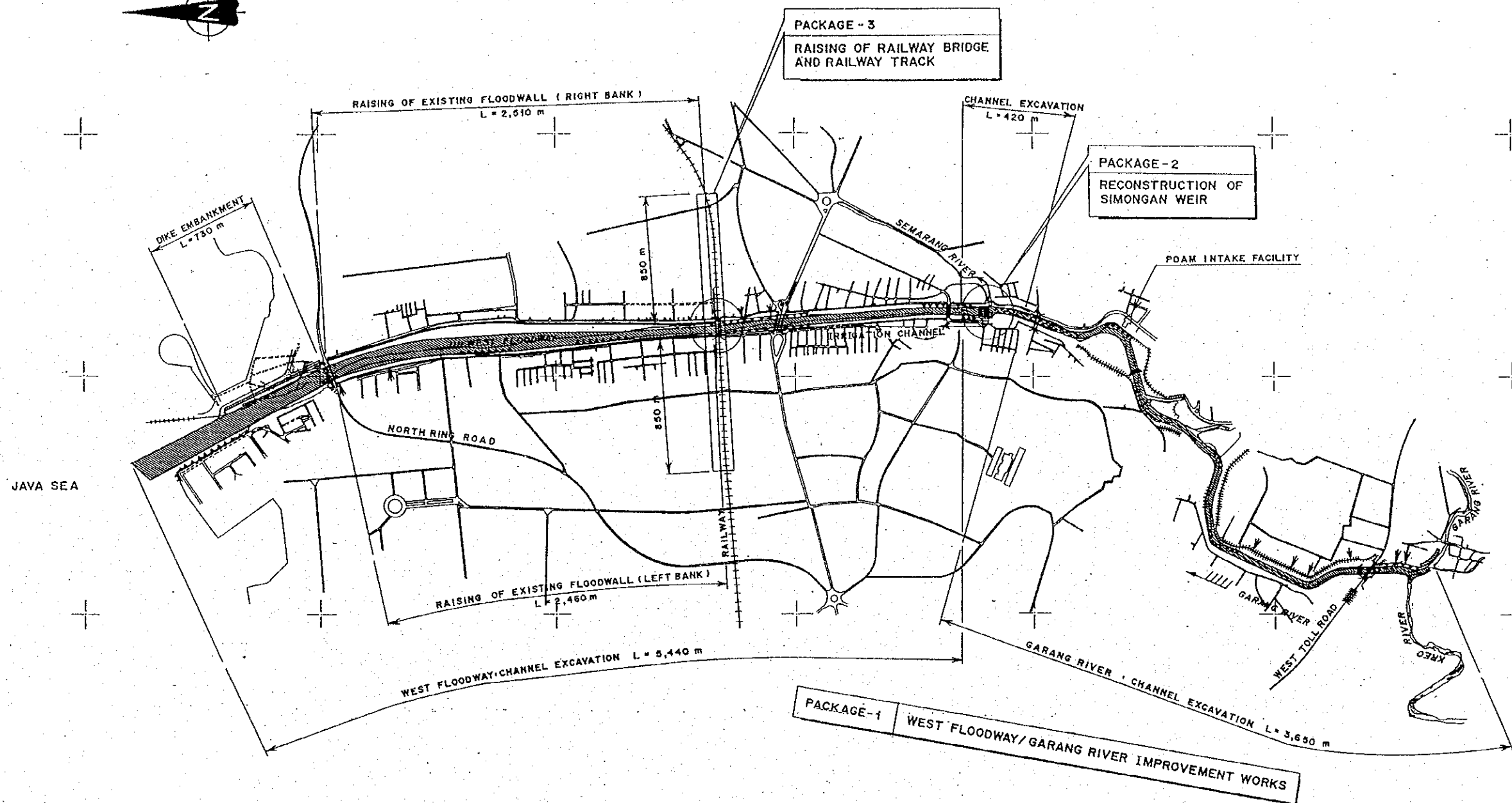


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

Fig. 2.22  
Location of Additional Dike

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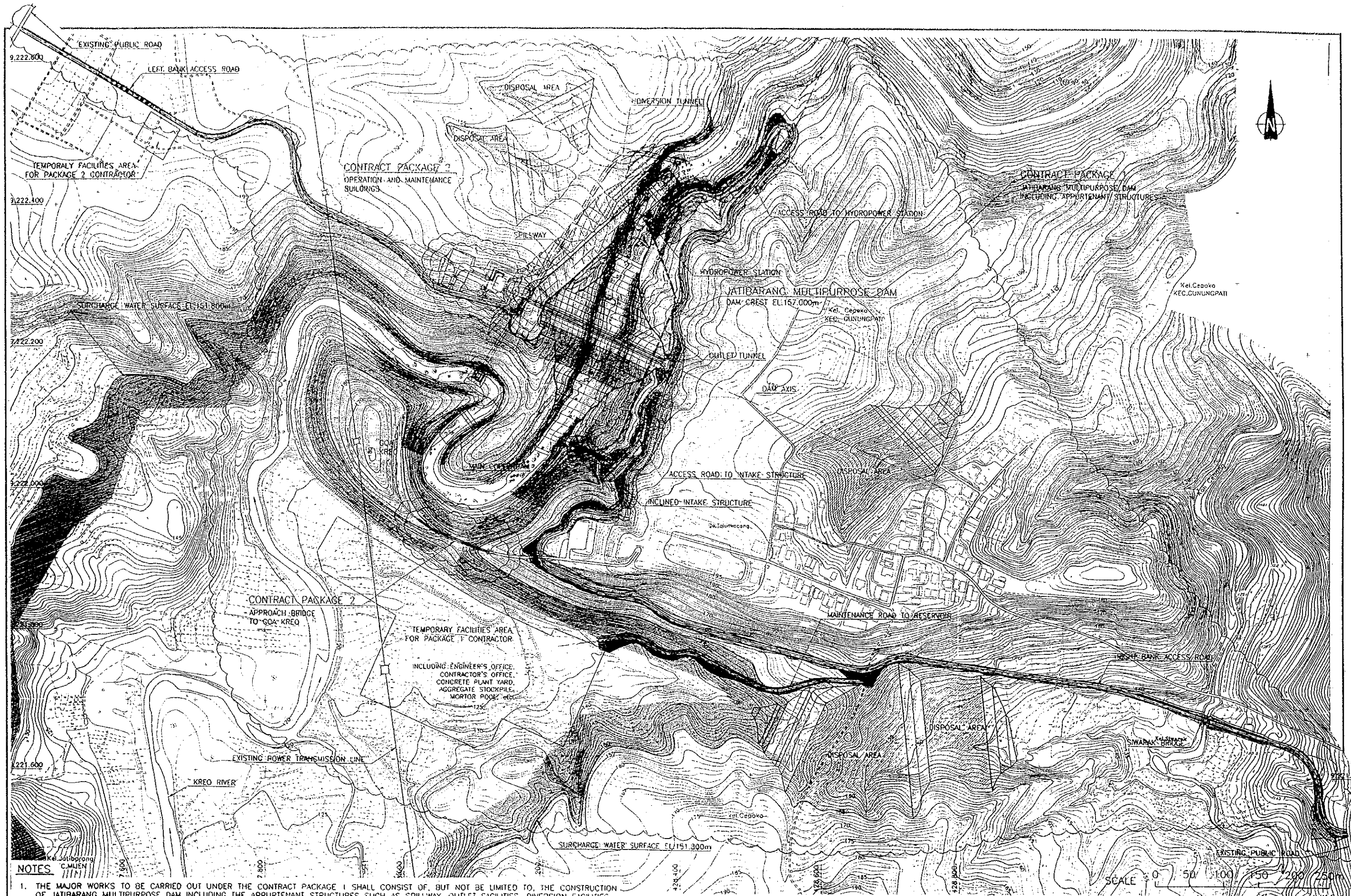


LEGEND	
	CHANNEL EXCAVATION
	DIKE EMBANKMENT
	RAISING OF EXISTING FLOODWALL
	GROUND SILL
	REVTMENT
	GROIN
	DRAINAGE SLUICWAY/OUTLET WITH GATE

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

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Fig. 4.1  
Contract Packages of West Floodway/Garang River Improvement



**NOTES**

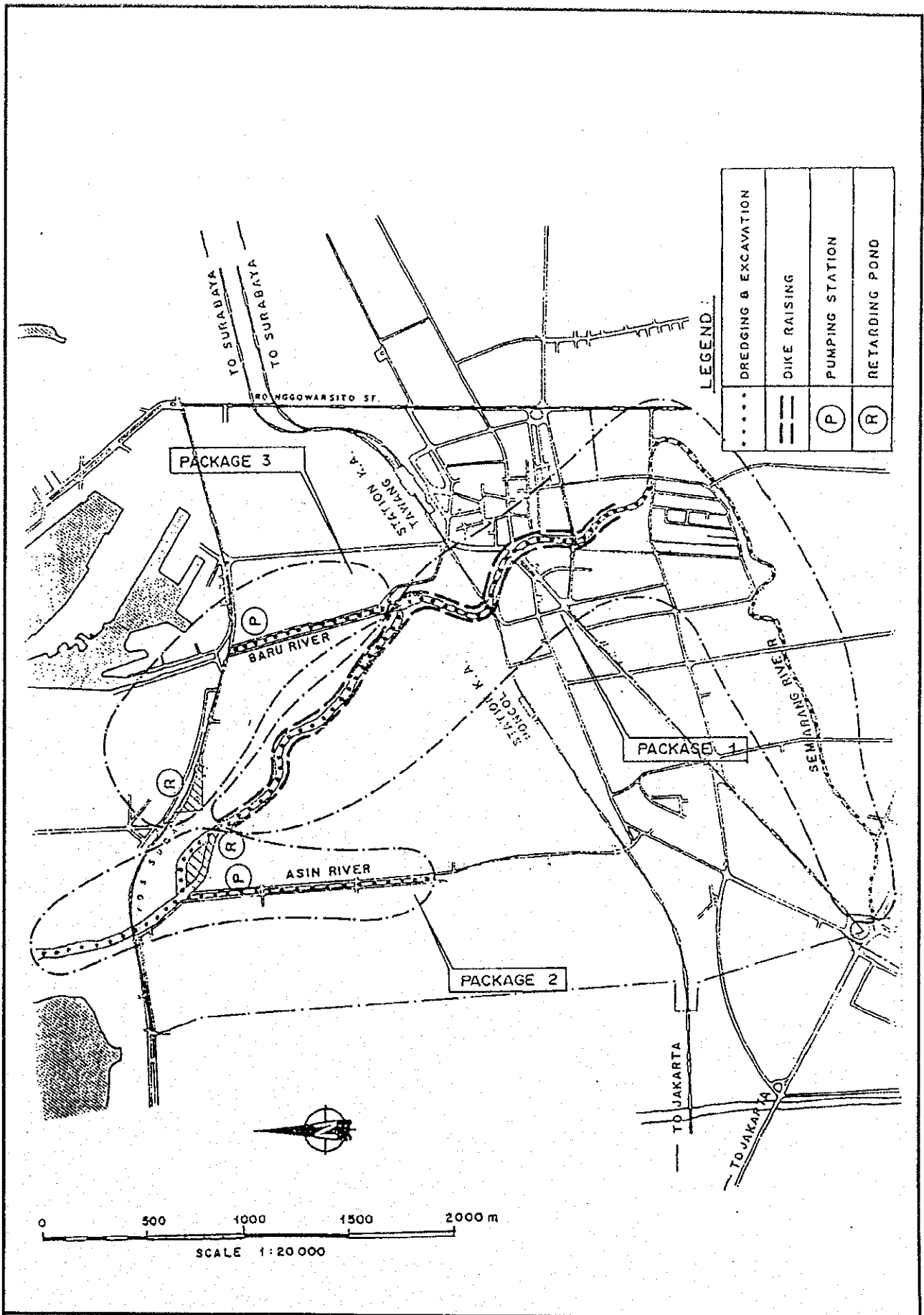
1. THE MAJOR WORKS TO BE CARRIED OUT UNDER THE CONTRACT PACKAGE 1 SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE CONSTRUCTION OF JATIBARANG MULTIPURPOSE DAM INCLUDING THE APPURTENANT STRUCTURES SUCH AS SPILLWAY, OUTLET FACILITIES, DIVERSION FACILITIES, HYDROPOWER STATION, ACCESS ROADS AND RELOCATION OF EXISTING POWER TRANSMISSION LINE.
2. THE MAJOR WORKS TO BE CARRIED OUT UNDER THE CONTRACT PACKAGE 2 SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE CONSTRUCTION OF THE OPERATION AND MAINTENANCE BUILDINGS AND EXTERNAL WORKS IN THE DAM MANAGEMENT COMPLEX, AND THE APPROACH BRIDGE TO GOA KREO.
3. THE EXCAVATION WORKS OF THE DAM MANAGEMENT COMPLEX AREA SHALL BE CARRIED OUT BY THE PACKAGE 1 CONTRACTOR.

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

Fig. 4.2  
 Contract Packages of Jatibarang Multipurpose Dam







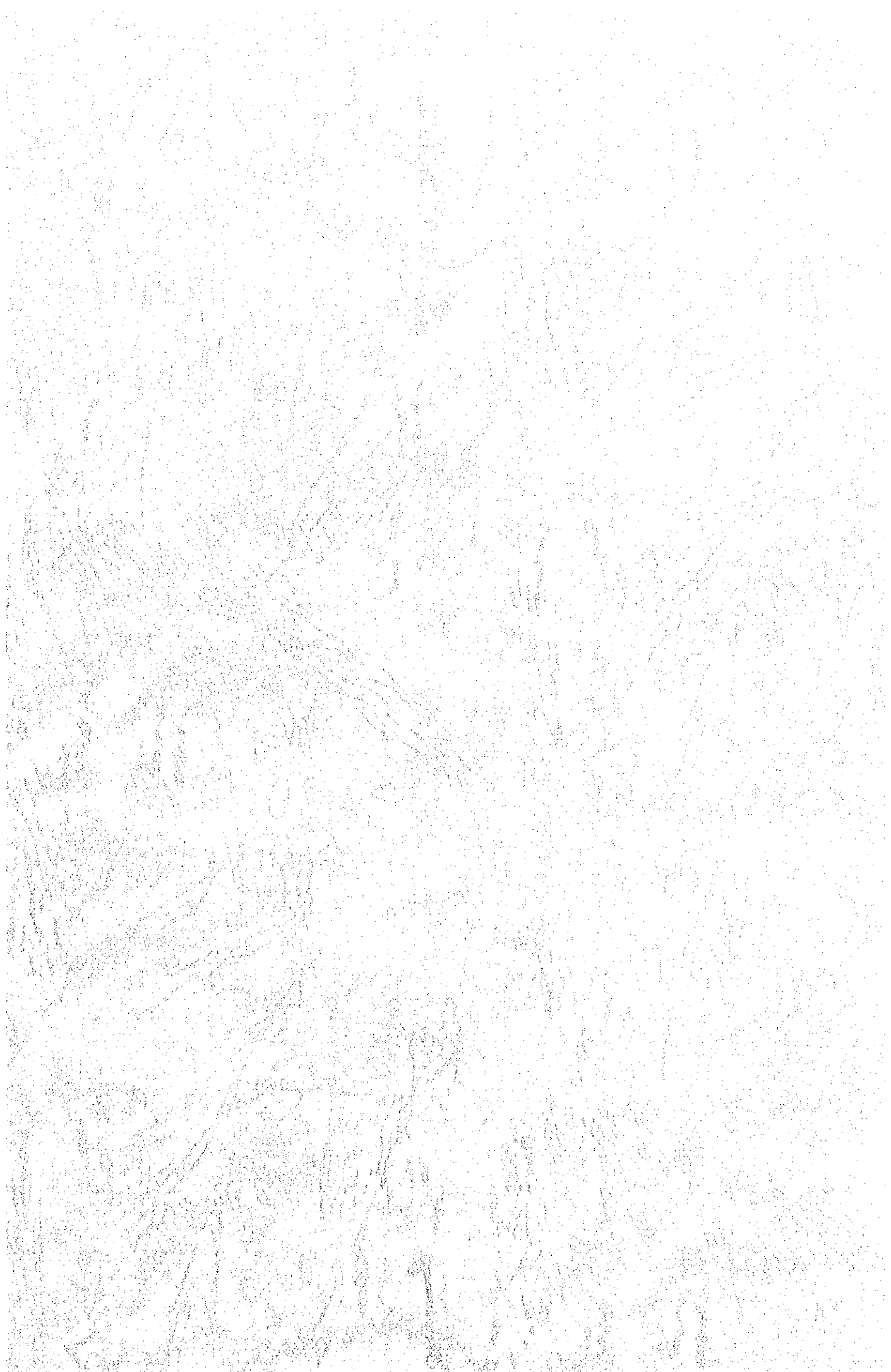
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

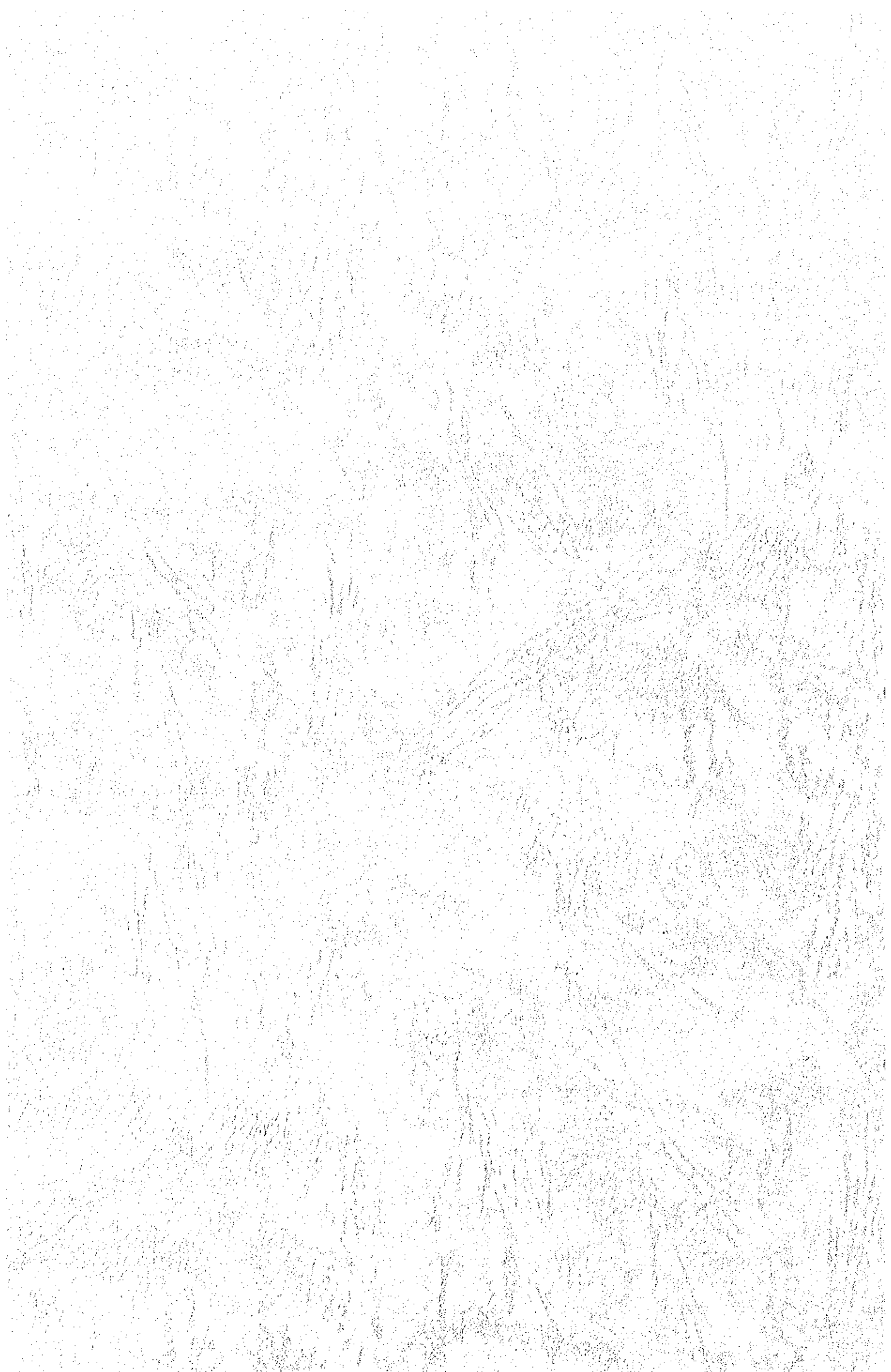
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Fig. 4.3 Contract Packages of Urban Drainage System Improvement











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