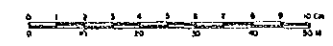


SCALE 1:500



LEGEND :

- River
- Bridges
- Flow of water
- Building
- Building (temporary or wooden)
- Beach Mark
- Point
- Road
- Retainment
- Retainment (stone)
- Fence (wall)
- Fence (wire)
- Water gate
- Corny slope
- Tree
- Glass Land
- Farm Land
- Static water
- Garden
- Utility pole
- Elevation

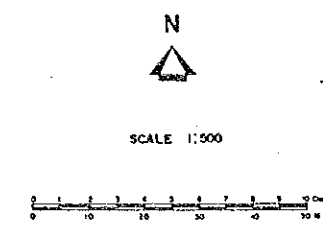
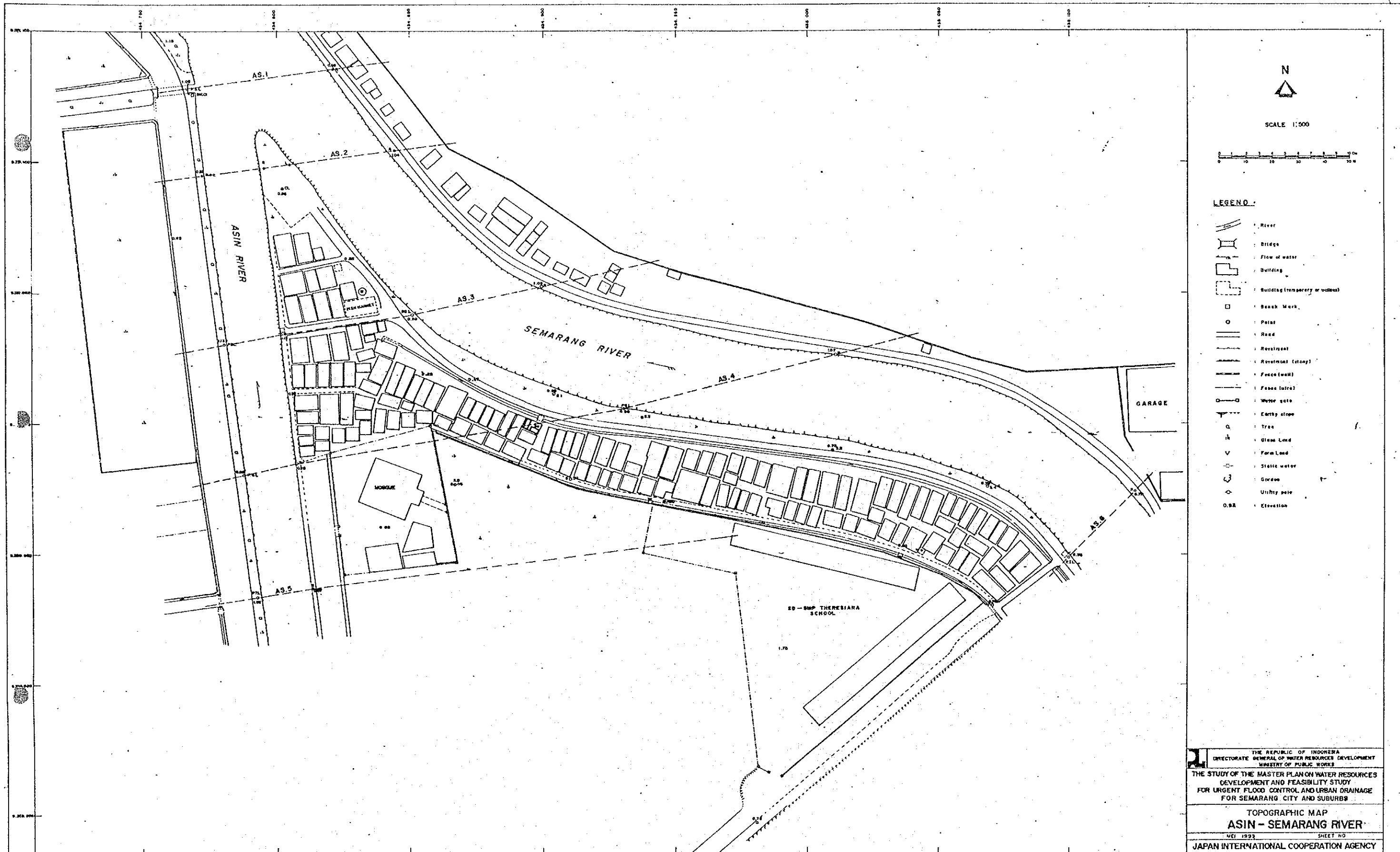
THE REPUBLIC OF INDONESIA  
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 MINISTRY OF PUBLIC WORKS

THE STUDY OF THE MASTER PLAN ON WATER RESOURCES  
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TOPOGRAPHIC MAP  
**ARTERI ROAD**

NOV 1993 SHEET NO

JAPAN INTERNATIONAL COOPERATION AGENCY

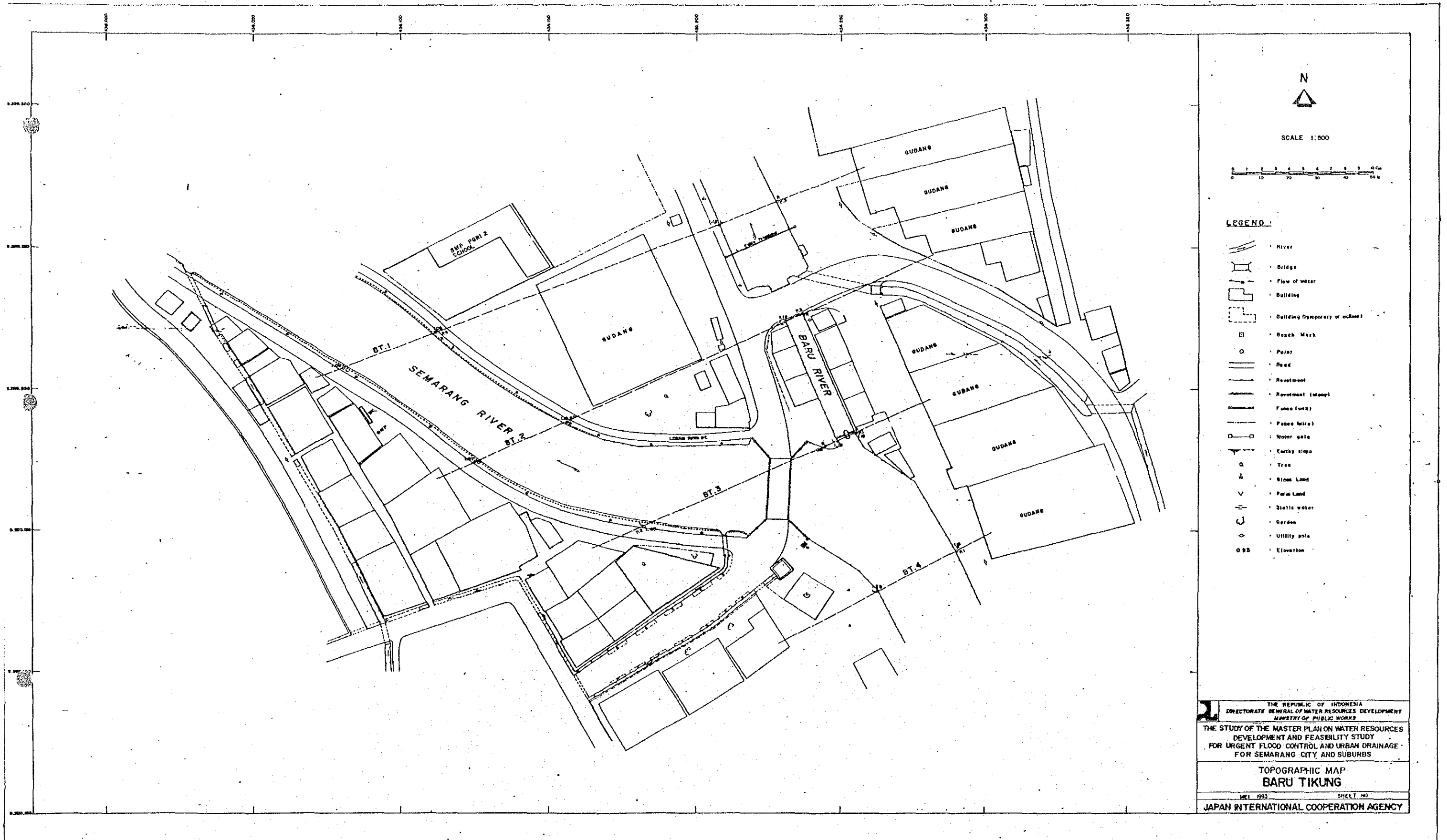


- LEGEND**
- River
  - Bridge
  - Flow of water
  - Building
  - Building (temporary or rubble)
  - Bench Mark
  - Point
  - Road
  - Residential
  - Revetment (stone)
  - Face (wall)
  - Face (fence)
  - Water gate
  - Earthy slope
  - Tree
  - Glass Land
  - Farm Land
  - Stille water
  - Goroon
  - Utility pole
  - Elevation

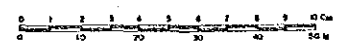
THE REPUBLIC OF INDONESIA  
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TOPOGRAPHIC MAP  
**ASIN - SEMARANG RIVER**  
 MEI 1993 SHEET NO  
 JAPAN INTERNATIONAL COOPERATION AGENCY



SCALE 1:500



**LEGEND**

- River
- Bridge
- Flow of water
- Building
- Building (temporary or under construction)
- Bench Mark
- Poles
- Road
- Roadset
- Roadset (steep)
- Fence (concrete)
- Fence (wire)
- Water gate
- Earthy slope
- Tree
- Bare Land
- Farm Land
- Static water
- Garden
- Utility pole
- Elevation

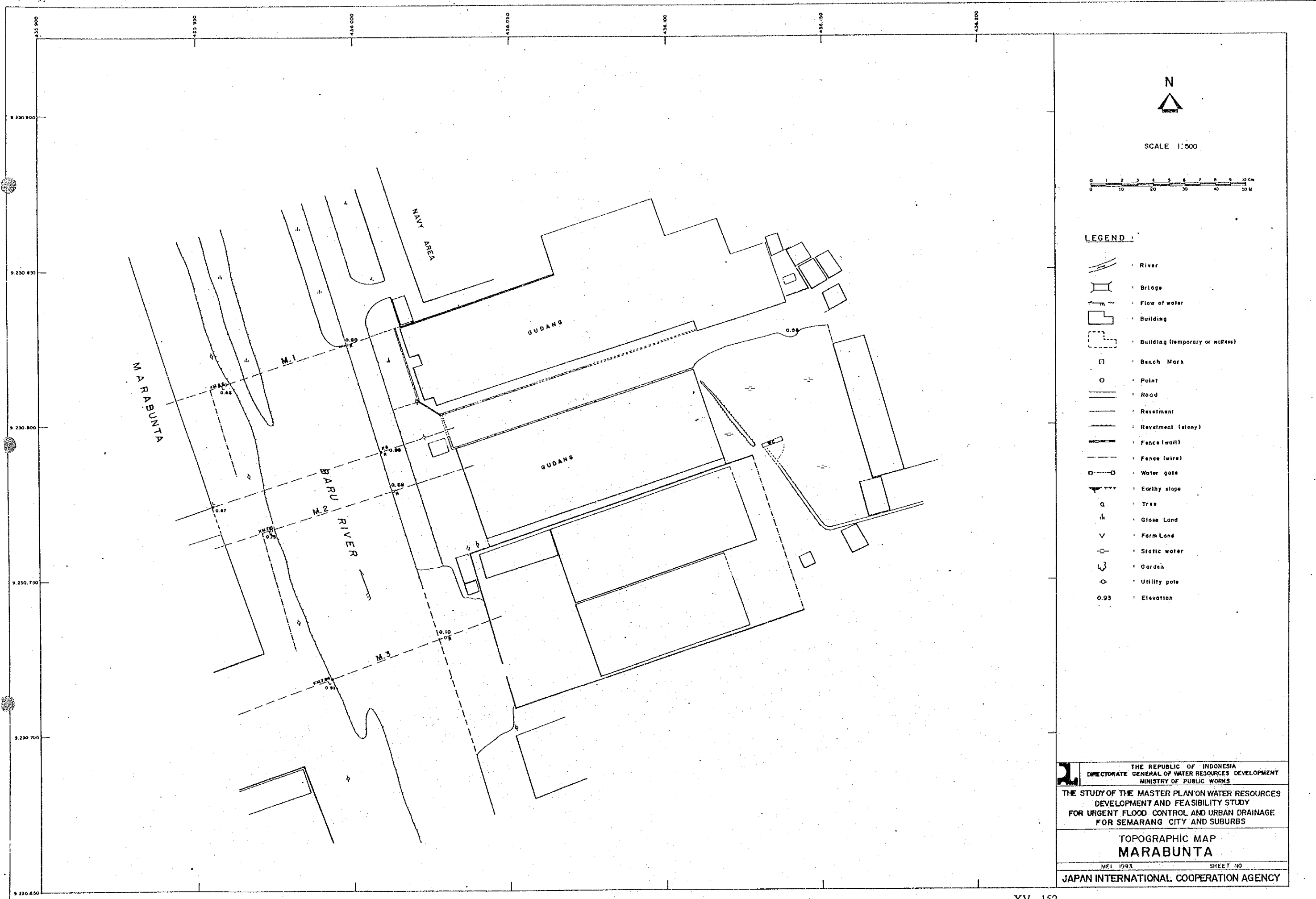
THE REPUBLIC OF INDONESIA  
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 DEVELOPMENT AND FEASIBILITY STUDY  
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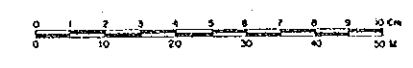
TOPOGRAPHIC MAP  
 BARU TIKUNG

WEL 793 SHEET NO.

JAPAN INTERNATIONAL COOPERATION AGENCY



SCALE 1:500



**LEGEND**

- River
- Bridge
- Flow of water
- Building
- Building (temporary or walled)
- Bench Mark
- Point
- Road
- Revetment
- Revetment (stone)
- Fence (wall)
- Fence (wire)
- Water gate
- Earthy slope
- Tree
- Glass Land
- Form Land
- Static water
- Garden
- Utility pole
- Elevation

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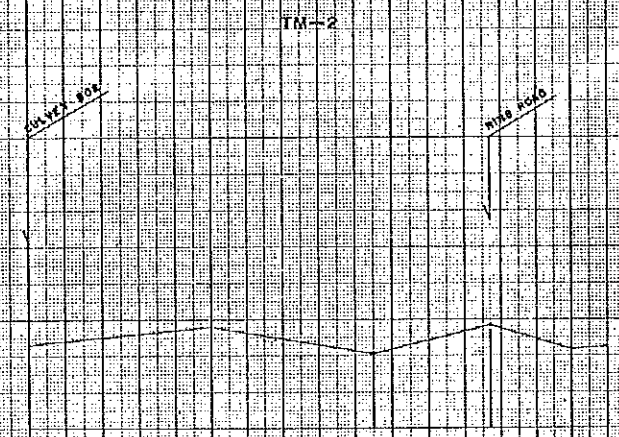
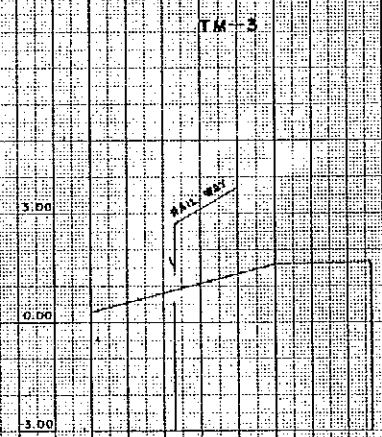
TOPOGRAPHIC MAP  
**MARABUNTA**

MEI 1993 SHEET NO  
 JAPAN INTERNATIONAL COOPERATION AGENCY

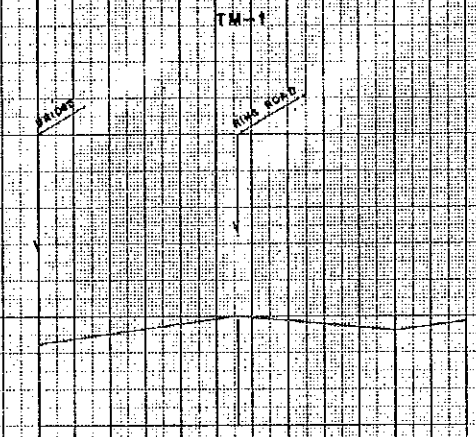


ELEVATION  
 3.00  
 0.00  
 -3.00

POINT NO	0	0.25	0.50	0.75
ACTUAL DISTANCE	0.00	270	260	
ACCUMULATED DISTANCE				
LOWEST SPOT OF C/SEC				
RIGHT BANK				
LEFT BANK				



POINT NO	0	0.25	0.50	0.75	1.00	1.25
ACTUAL DISTANCE	0.00	435	310	230	100	
ACCUMULATED DISTANCE						
LOWEST SPOT OF C/SEC						
RIGHT BANK						
LEFT BANK						



POINT NO	0	0.50	1.00	1.50
ACTUAL DISTANCE	0.00	561	339	200
ACCUMULATED DISTANCE				
LOWEST SPOT OF C/SEC				
RIGHT BANK				
LEFT BANK				

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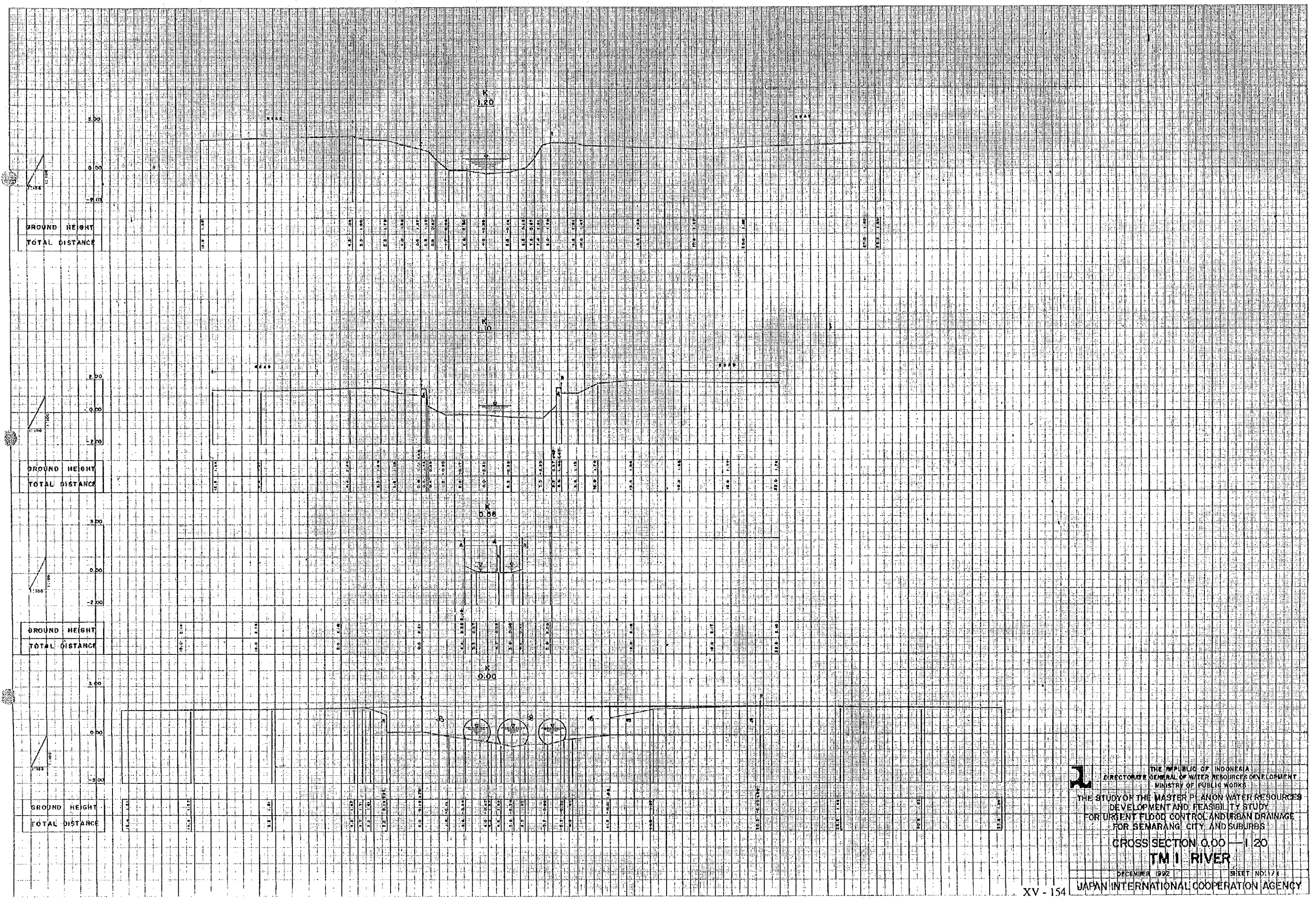
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 FOR SEMARANG CITY AND SIMURBS

LONGITUDINAL 0.0-0.7, 0.0-1.5, 0.0-1.2  
**TM 3,2,1 RIVER**

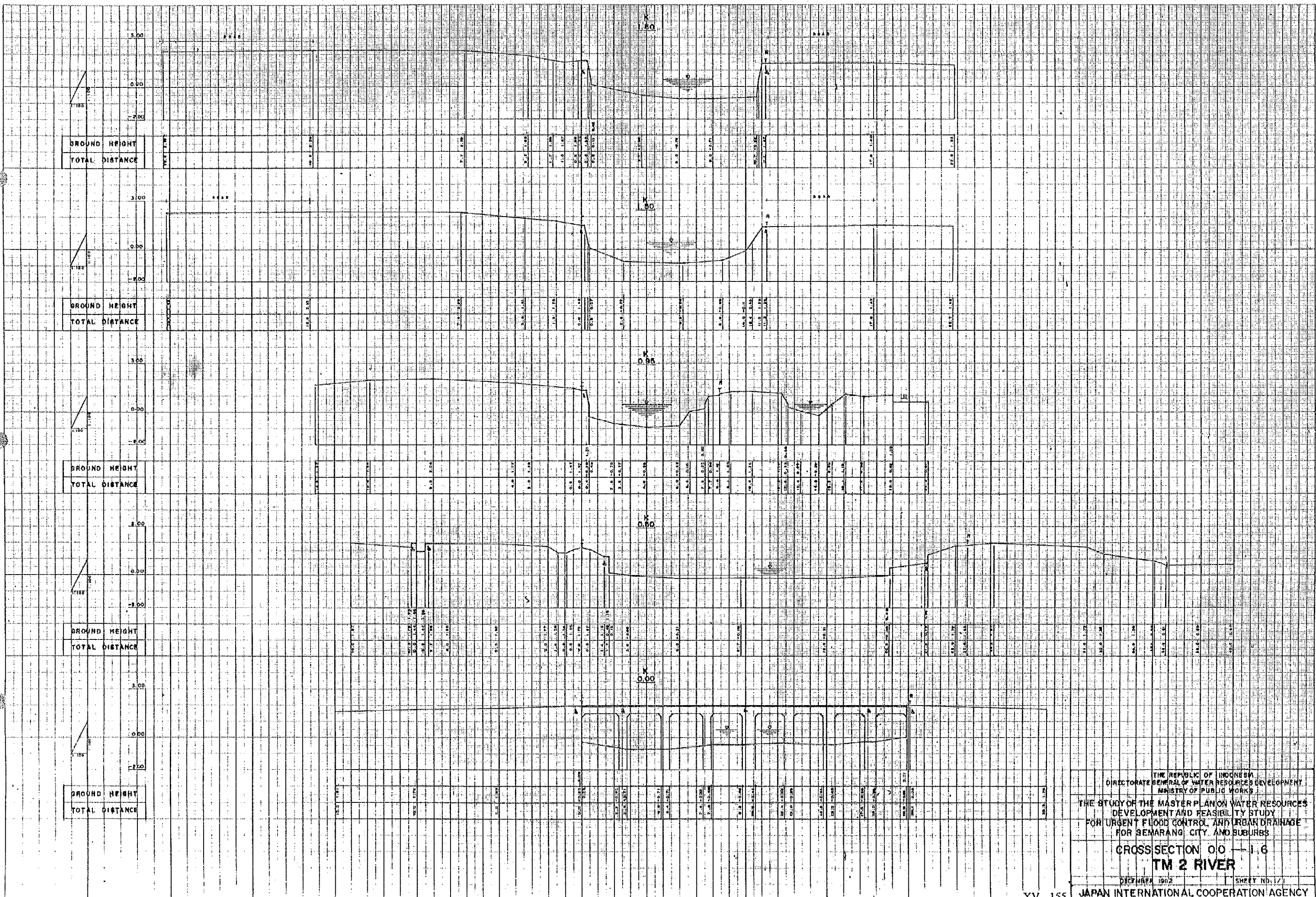
DECEMBER 1962 SHEET NO. 1/1

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 FOR SEMARANG CITY AND SUBURBS  
 CROSS SECTION 0.00 — 1.20  
**TM I RIVER**  
 DECEMBER 1992 SHEET NO. 174



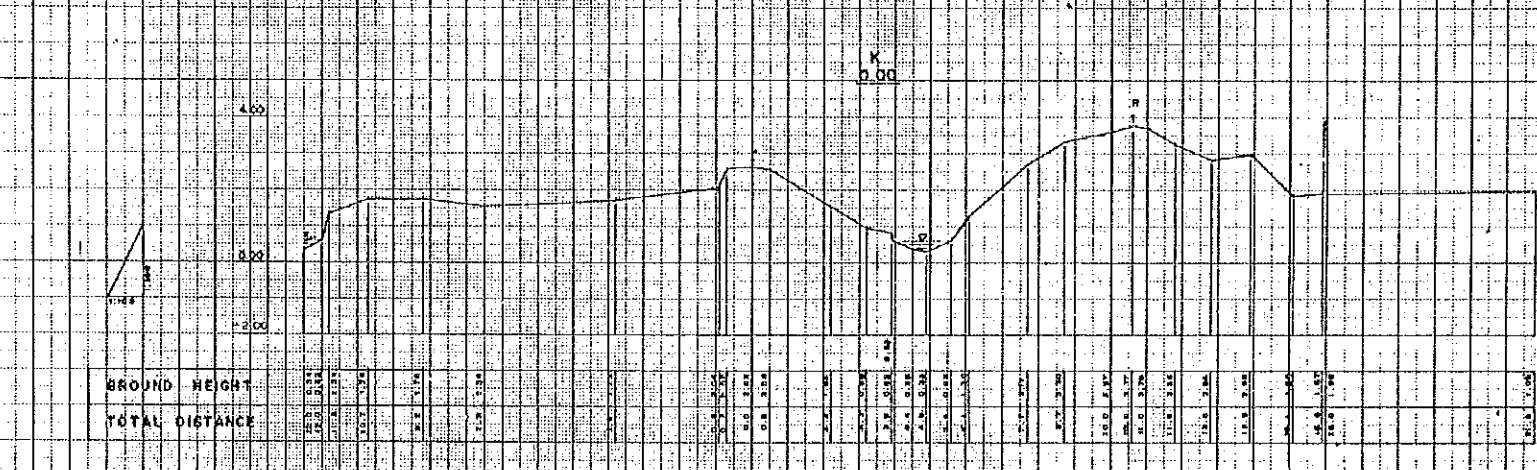
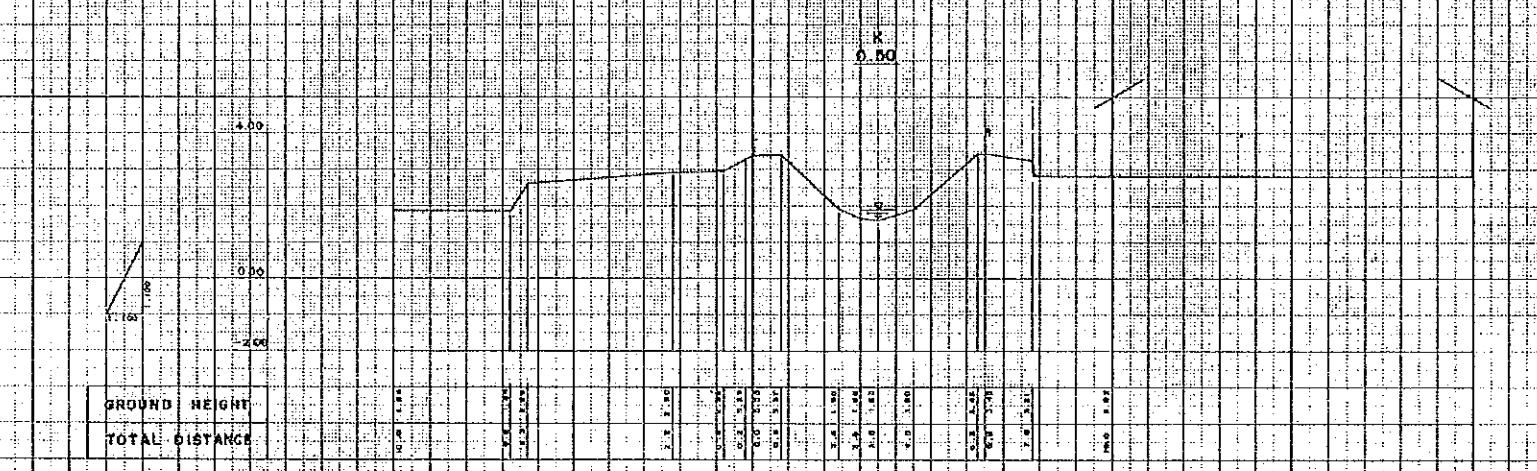
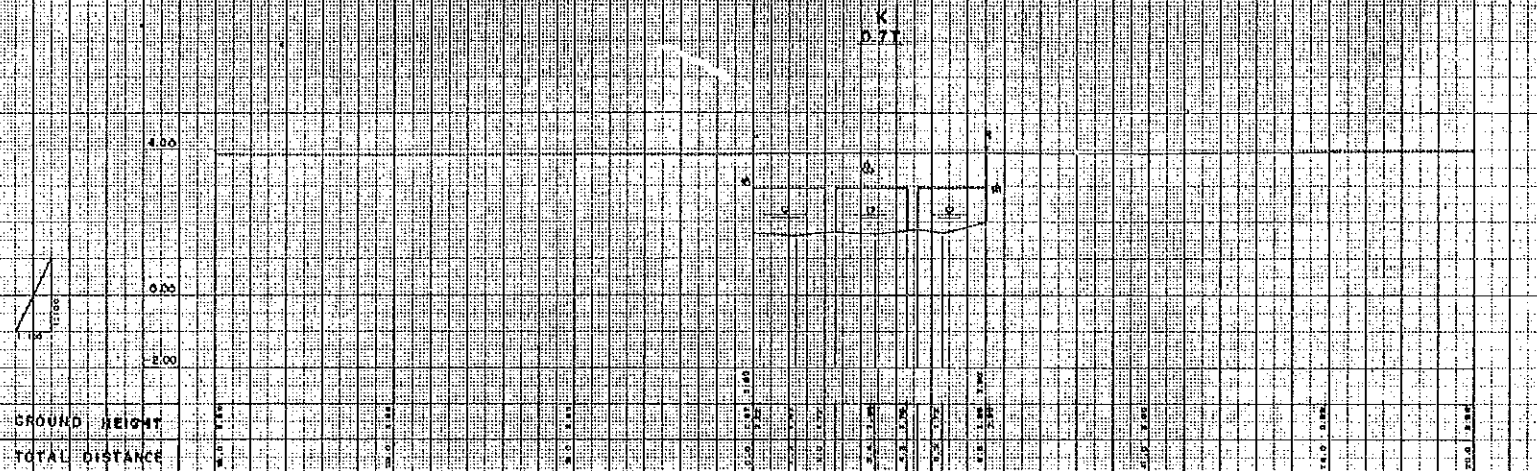
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 FOR SEMARANG CITY AND SUBURBS

CROSS SECTION 00 - 1.6  
 TM 2 RIVER

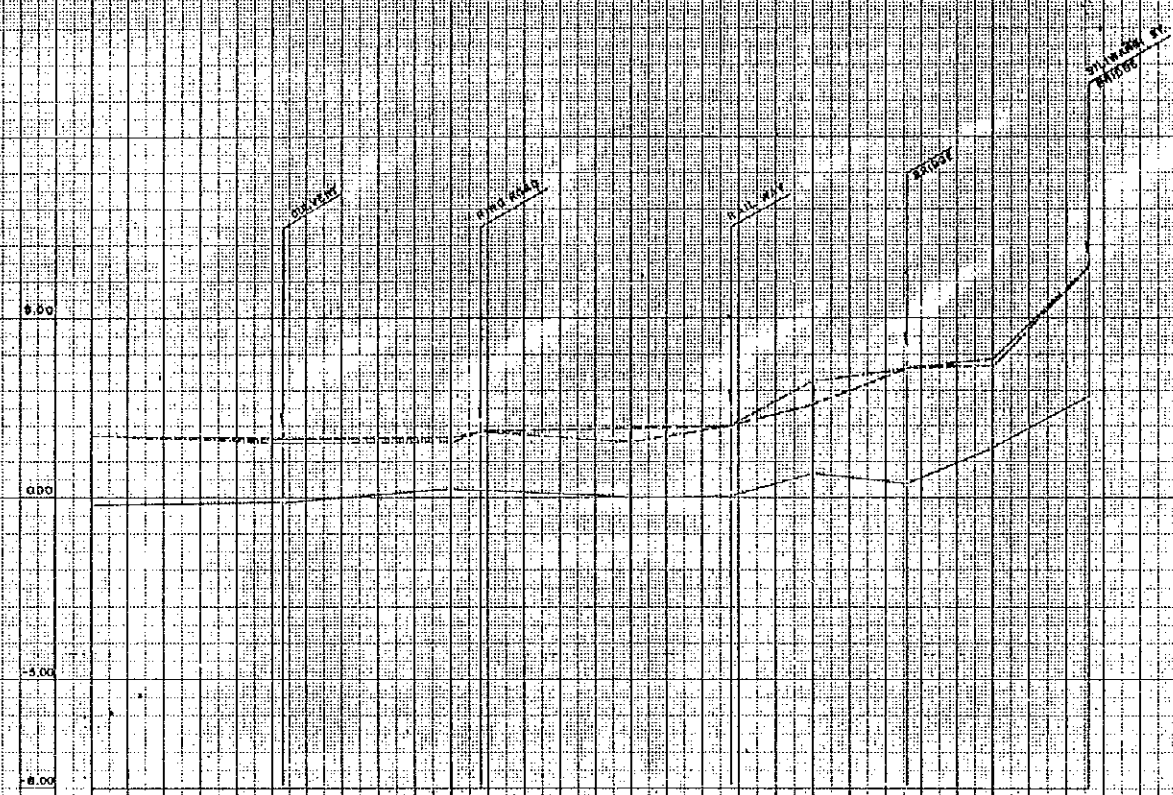
DECEMBER 1962 SHEET NO. 171






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 FOR SEMARANG CITY AND SUBURBS  
 CROSS SECTION 00 - 077  
 TM 3 RIVER  
 DECEMBER 1992 DEPT. NO. 171  
 JAPAN INTERNATIONAL COOPERATION AGENCY

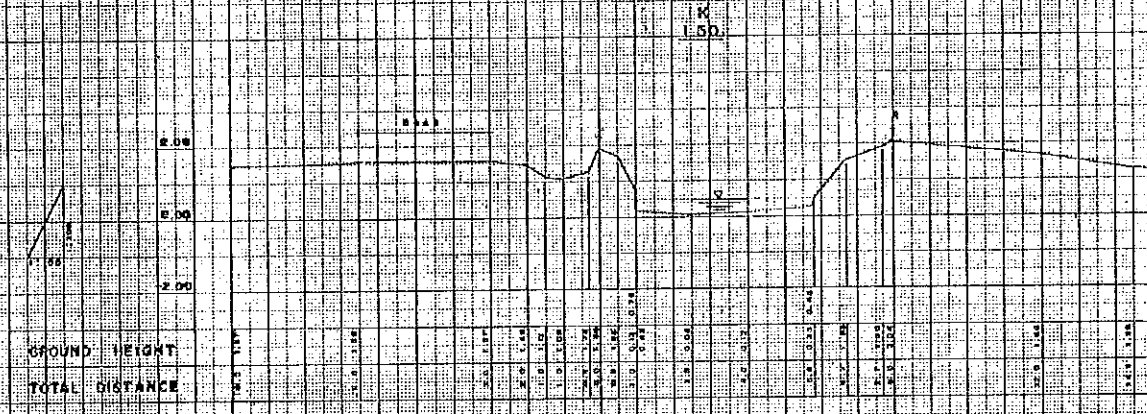
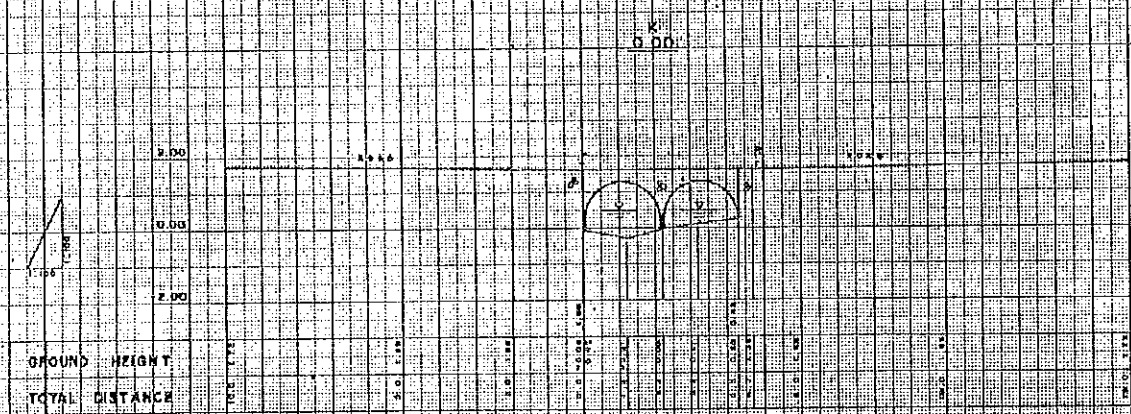
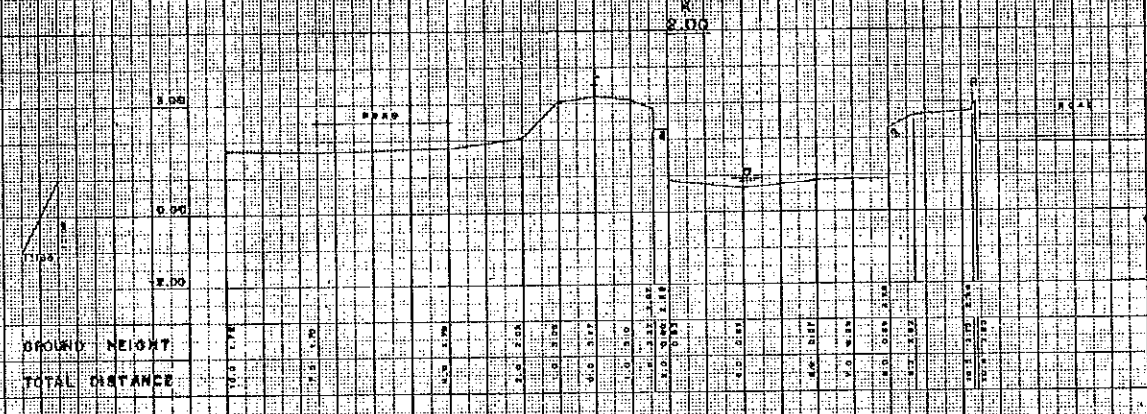
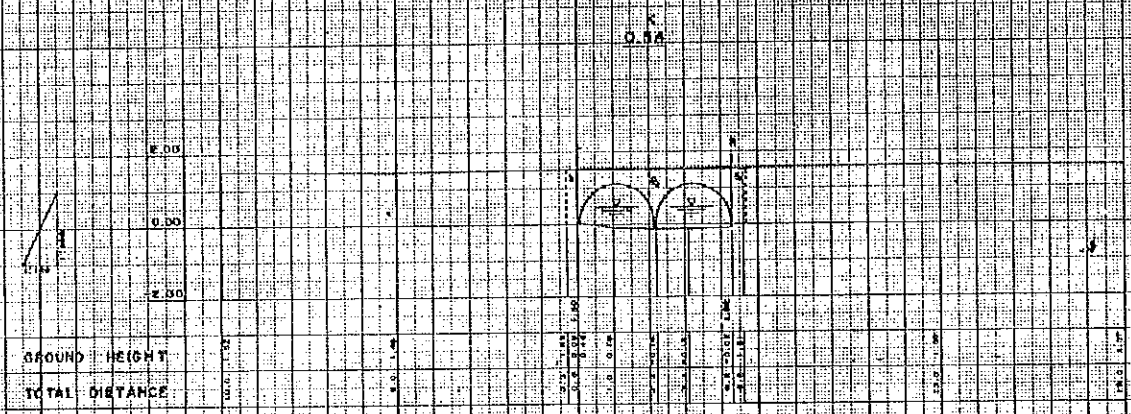
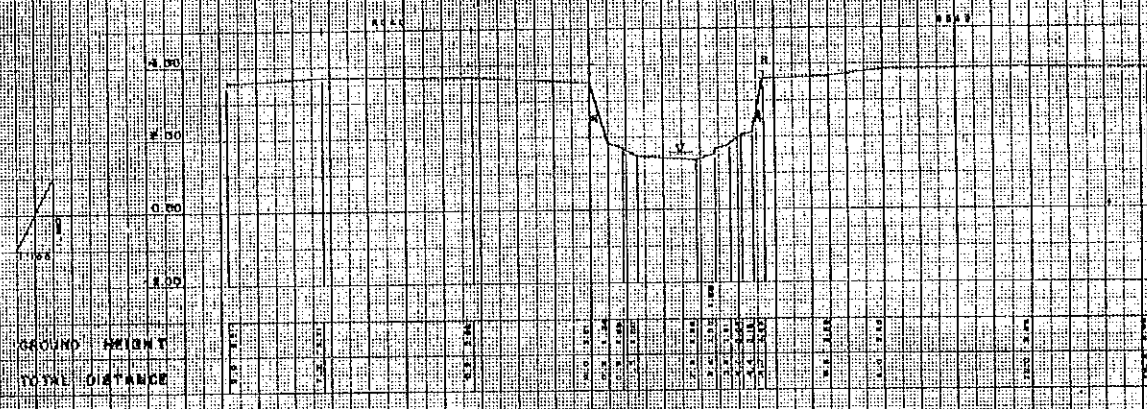
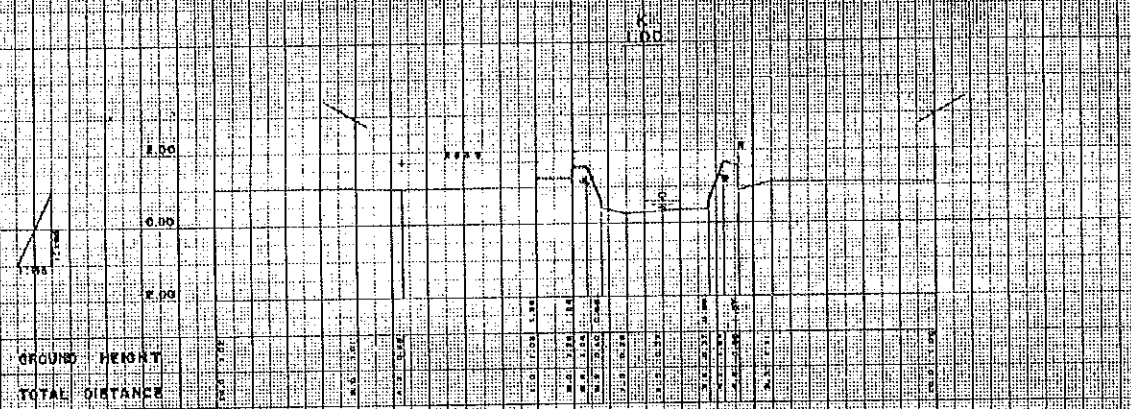




POINT NO	0	1	2	3	4	5	6	7	8	9	10
ACTUAL DISTANCE	0	637	1005	1080	1480	1880	2280	2680	3080	3480	3880
ACCUMULATED DISTANCE	0	637	1005	1080	1480	1880	2280	2680	3080	3480	3880
LOWEST SPOT OF C/SEC											
RIGHT BANK											
LEFT BANK											

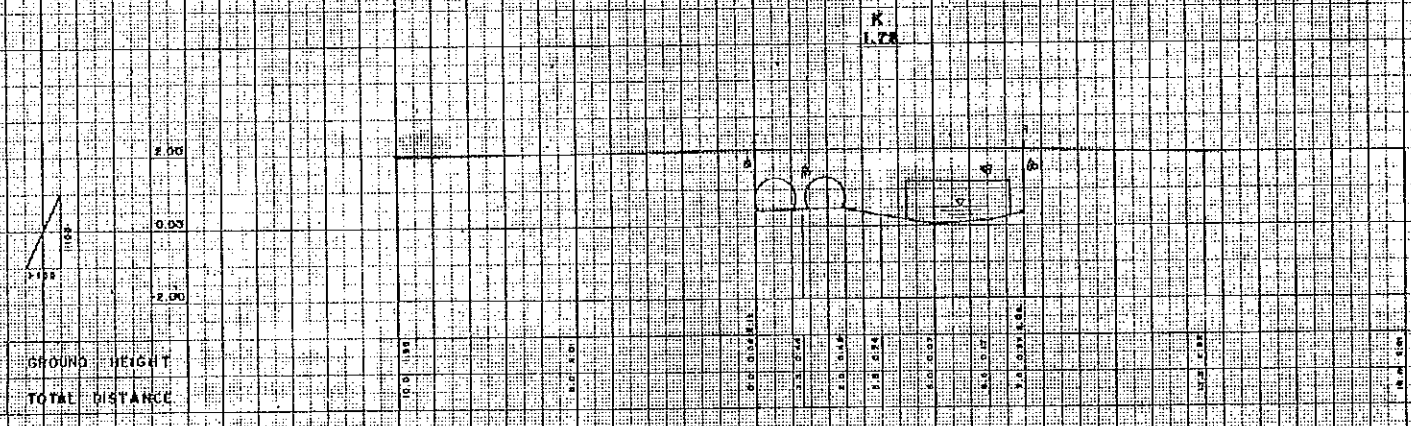
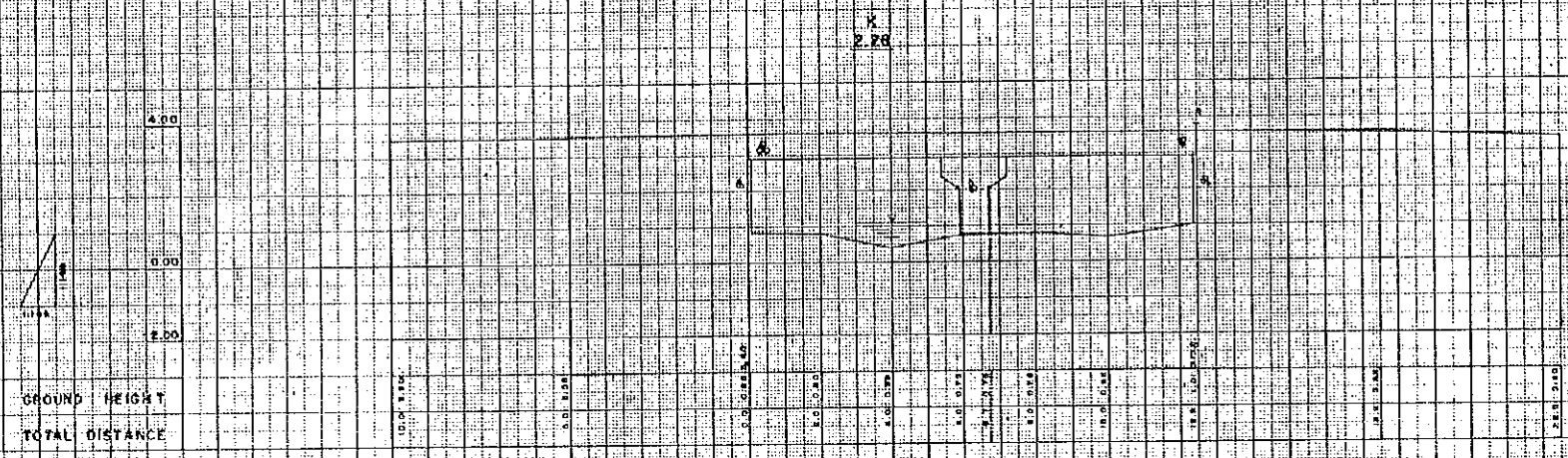
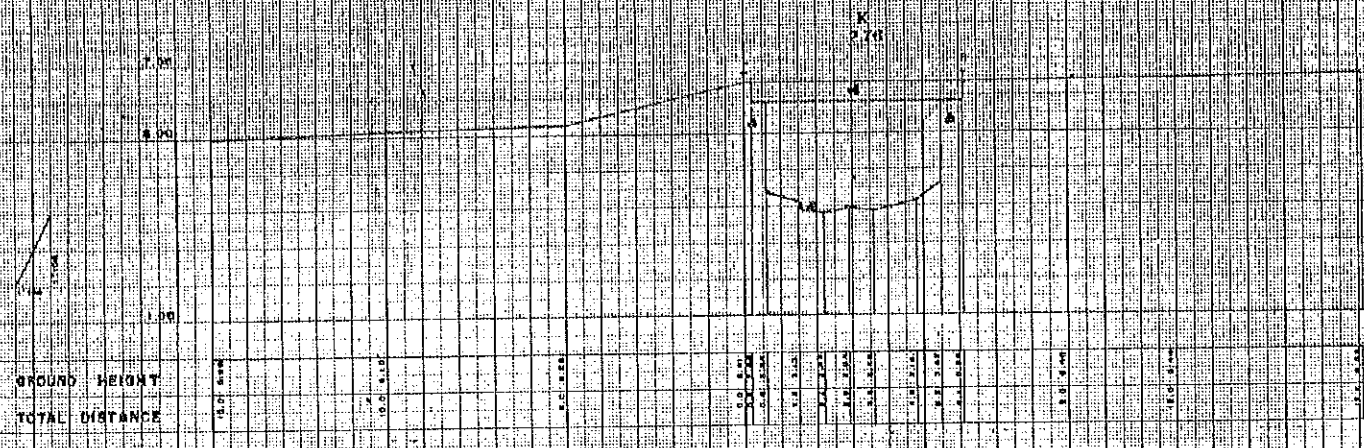
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 LONGITUDINAL C/O - 276  
 RONGGOLAWA RIVER  
 DECEMBER 1992 SHEET 110 (1)





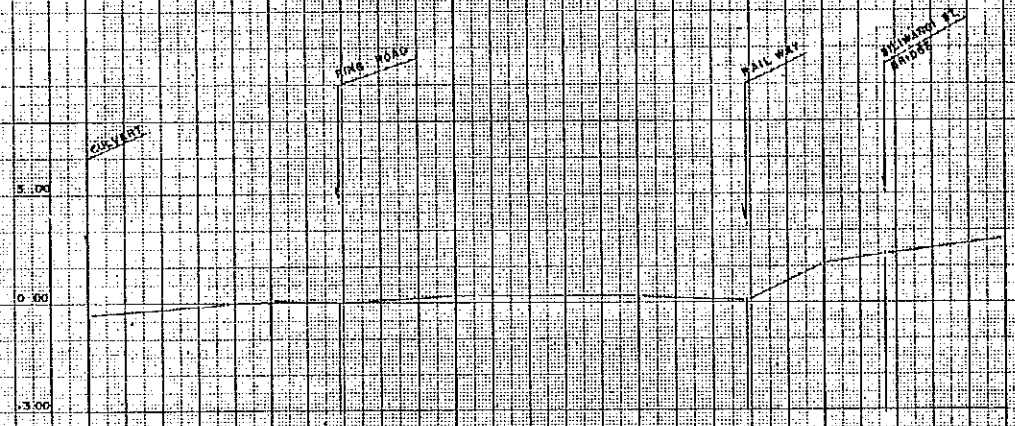
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**CROSSSECTION 0.0 — 2.5**  
**RONGGO LAWE RIVER**  
 DECEMBER 1992  
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**CROSS SECTION 178 — 2.76**  
**RONGGO LAWE RIVER**  
 DECEMBER 1992 SHEET NO. 178

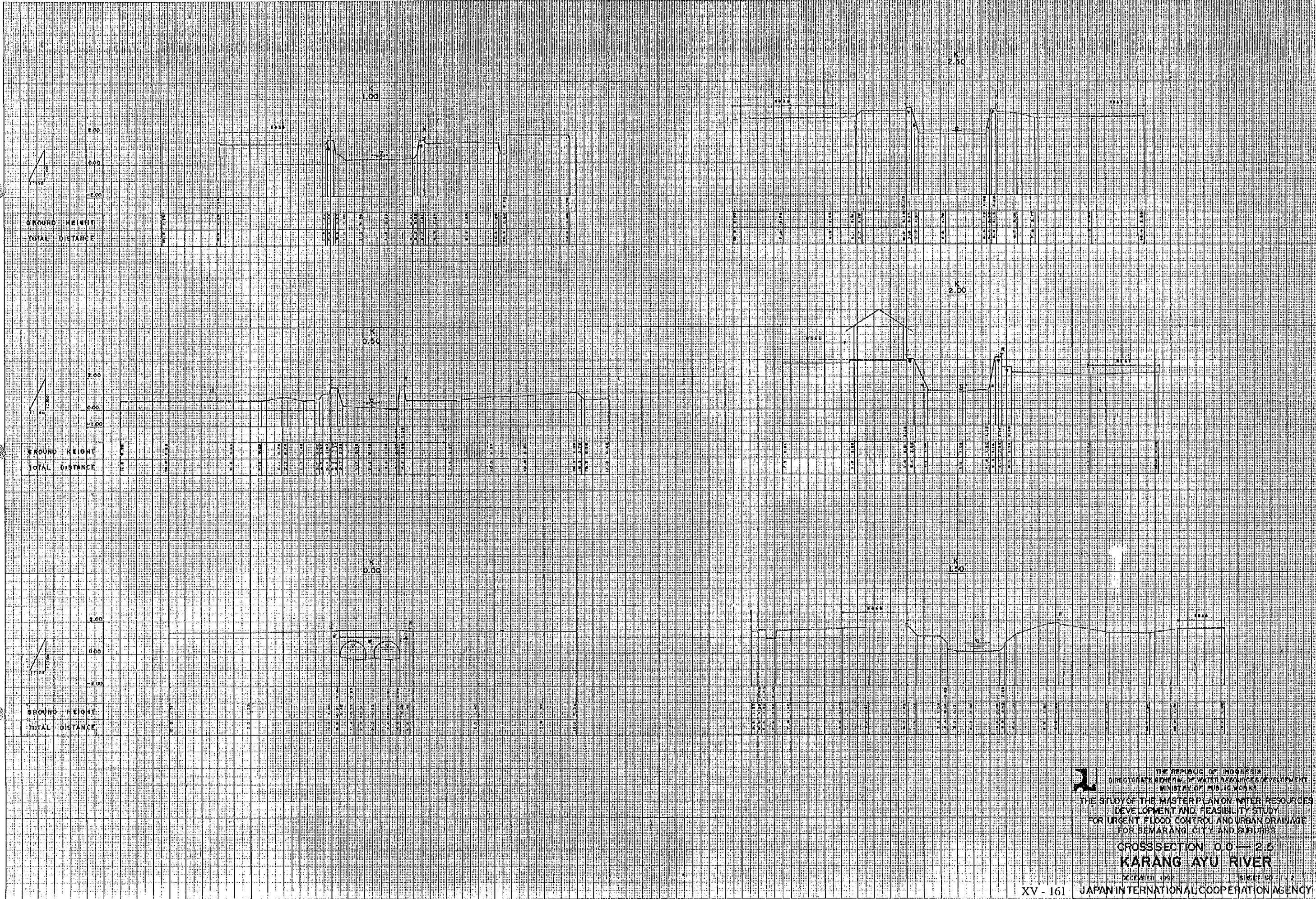




POINT NO.	0.00	0.50	0.55	1.00	1.40	1.90	2.00	2.10	2.20
ACTUAL DISTANCE	0.00	100	110	500	297	203	174	528	8
ACCUMULATED DISTANCE	0	100	110	600	897	1100	1274	1802	1810
LOWEST SPOT OF C/SEC									
RIGHT BANK									
LEFT BANK									

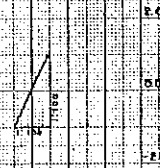
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 LONGITUDINAL 0.0—2.5  
**KARANG AYU RIVER**  
 DECEMBER 1959 SHEET NO. 1/1



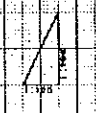
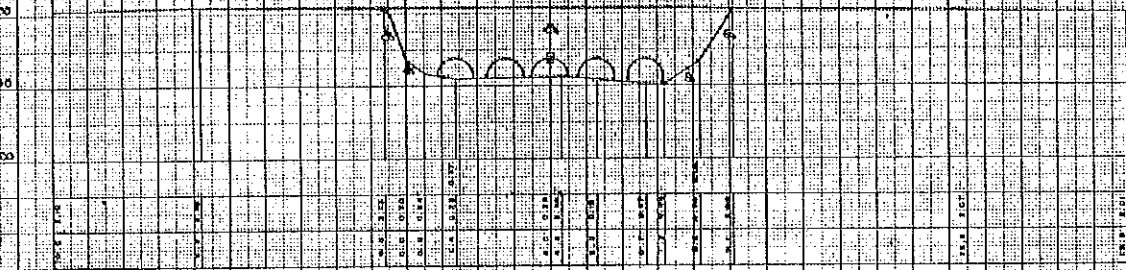


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 CROSSSECTION 0.0 — 2.5  
**KARANG AYU RIVER**  
 DECEMBER 1958

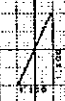
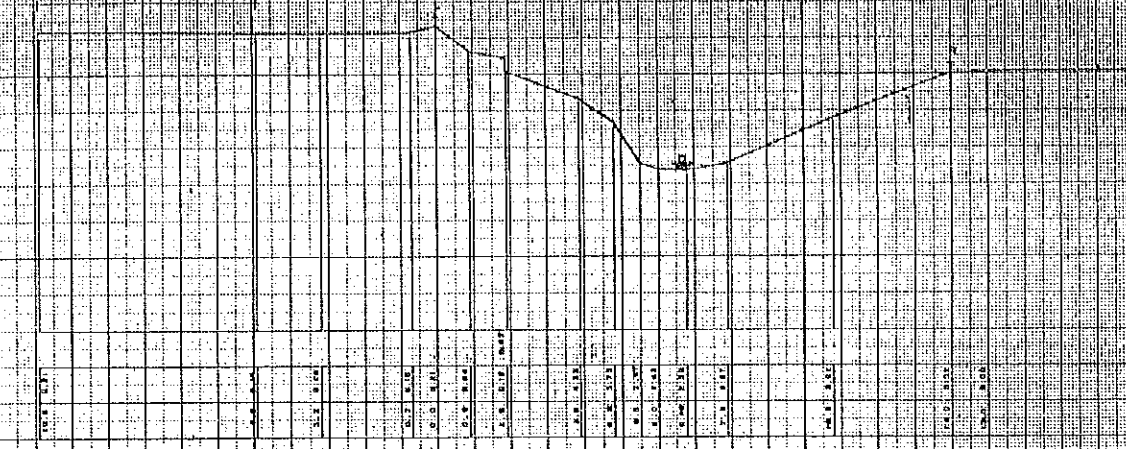




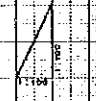
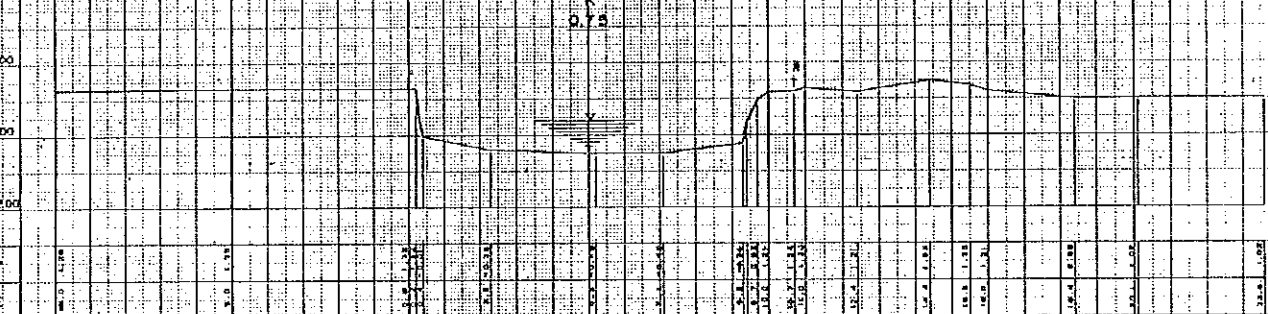
GROUND HEIGHT  
TOTAL DISTANCE



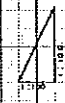
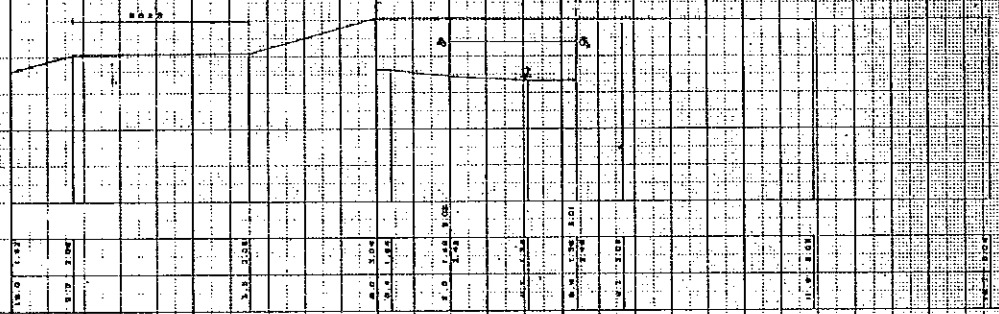
GROUND HEIGHT  
TOTAL DISTANCE



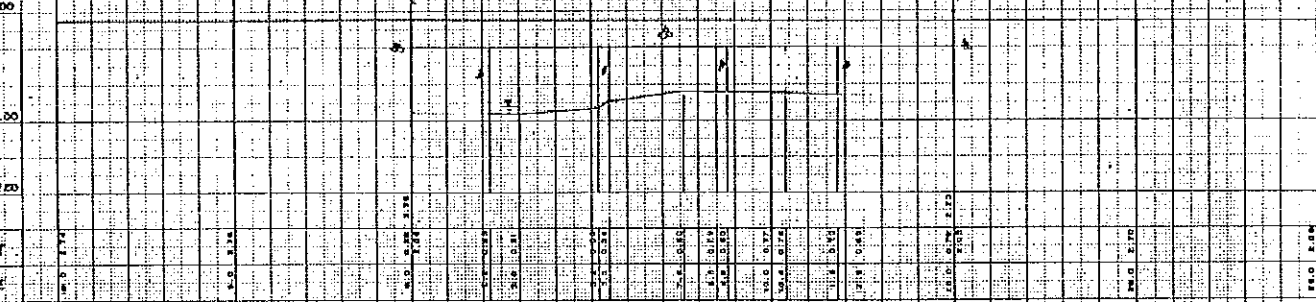
GROUND HEIGHT  
TOTAL DISTANCE



GROUND HEIGHT  
TOTAL DISTANCE



GROUND HEIGHT  
TOTAL DISTANCE



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FOR SEMARANG CITY AND SUBURBS  
CROSSSECTION 069—2.16  
**KARANG AYU RIVER**  
DECEMBER 1958  
SHEET NO. 272