

THE HASHEMITE KINGDOM OF JORDAN

FEASIBILITY STUDY

OF

RING ROADS CONSTRUCTION PROJECT

IN IRBID CITY

DRAWINGS

FEBRUARY, 1982

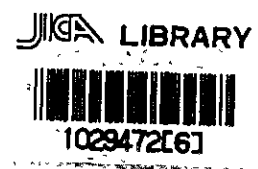
JAPAN INTERNATIONAL COOPERATION AGENCY

L307
73.7
SDF

SDF

82-023

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73.7
SDF
13460
(13482)



THE HASHEMITE KINGDOM OF JORDAN

**FEASIBILITY STUDY
OF
RING ROADS CONSTRUCTION PROJECT
IN IRBID CITY**

DRAWINGS

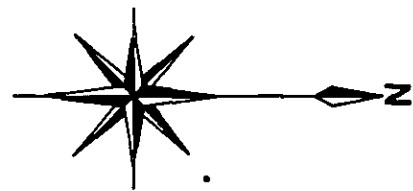
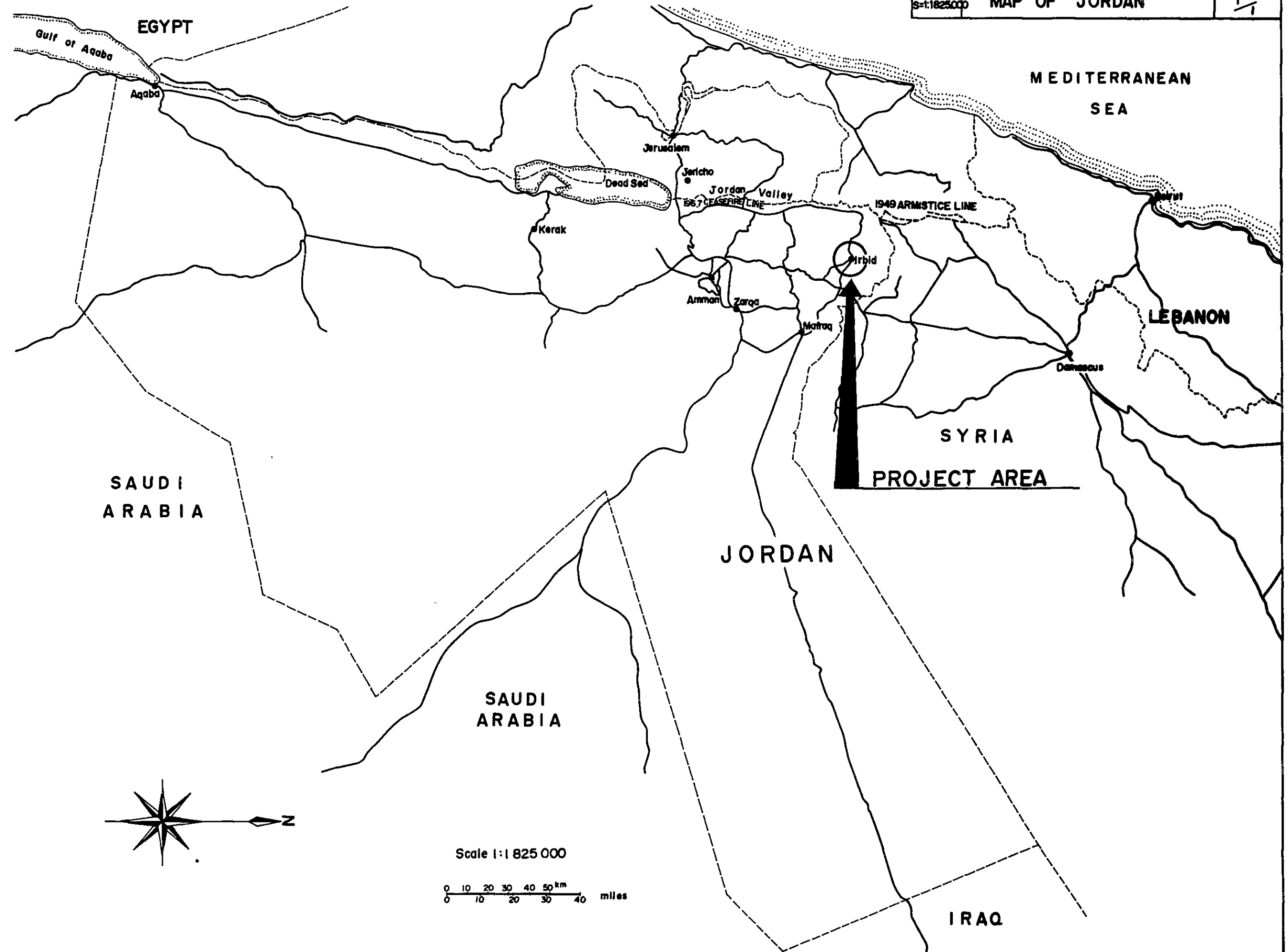
FEBRUARY, 1982

JAPAN INTERNATIONAL COOPERATION AGENCY

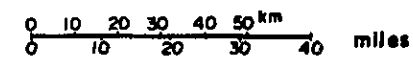
国際協力事業団	
設立 年月 57.7.22	E307
登録No. 08371	737
	SDF

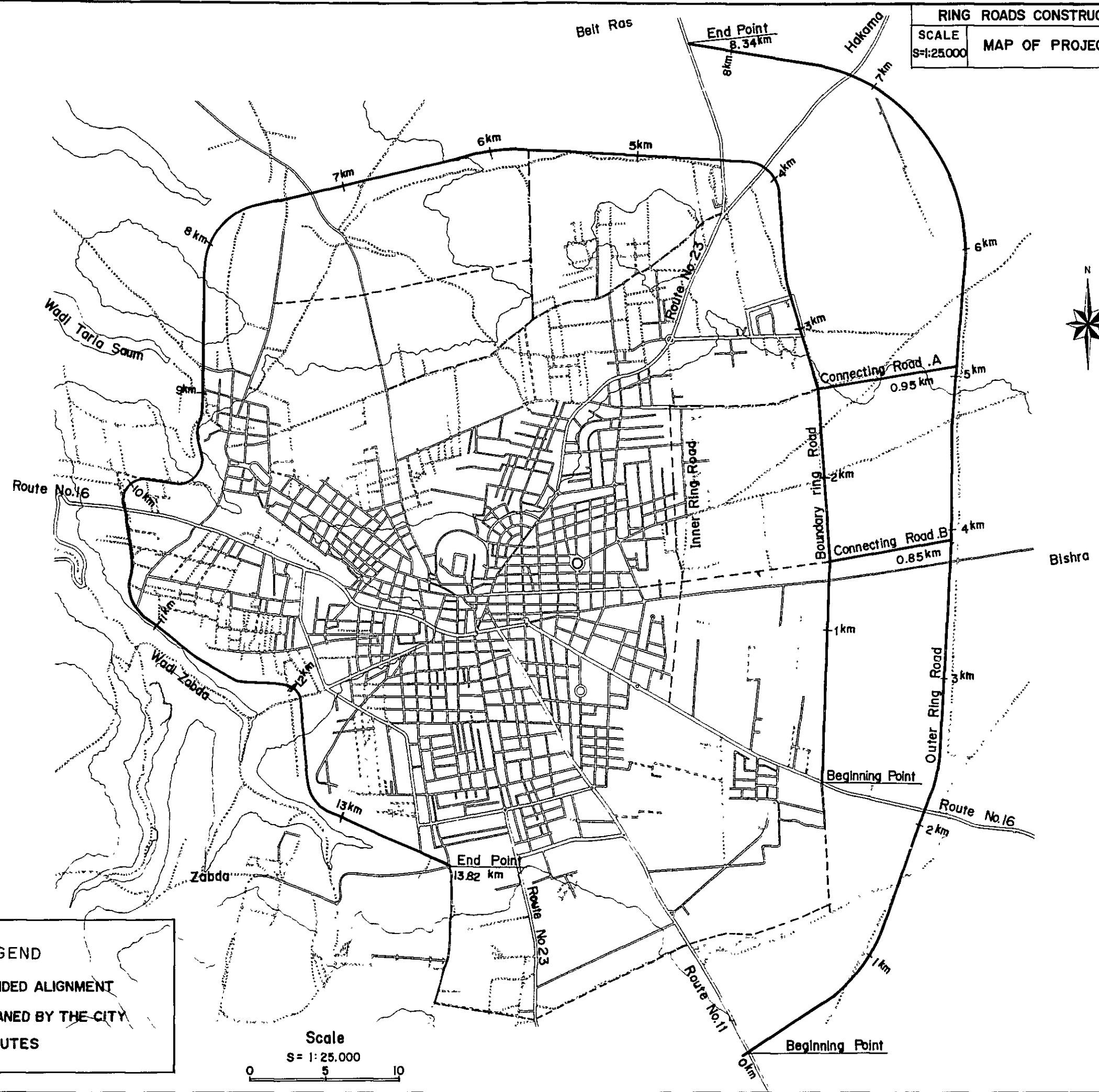
DRAWING SCHEDULE

INDEX OF SHEETS	SCALE	TOTAL SHEET
MAP OF JORDAN	1: 1.825.000	1
MAP OF PROJECT AREA	1: 25.000	1
TYPICAL CROSS SECTION	1: 200	1
PLAN AND PROFILE	H = 1: 5.000 V = 1: 500	18
AT - GRADE INTERSECTION	1: 1.000	3
MINOR STRUCTURES	1: 60 1: 100	1



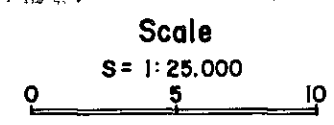
Scale 1:1 825 000





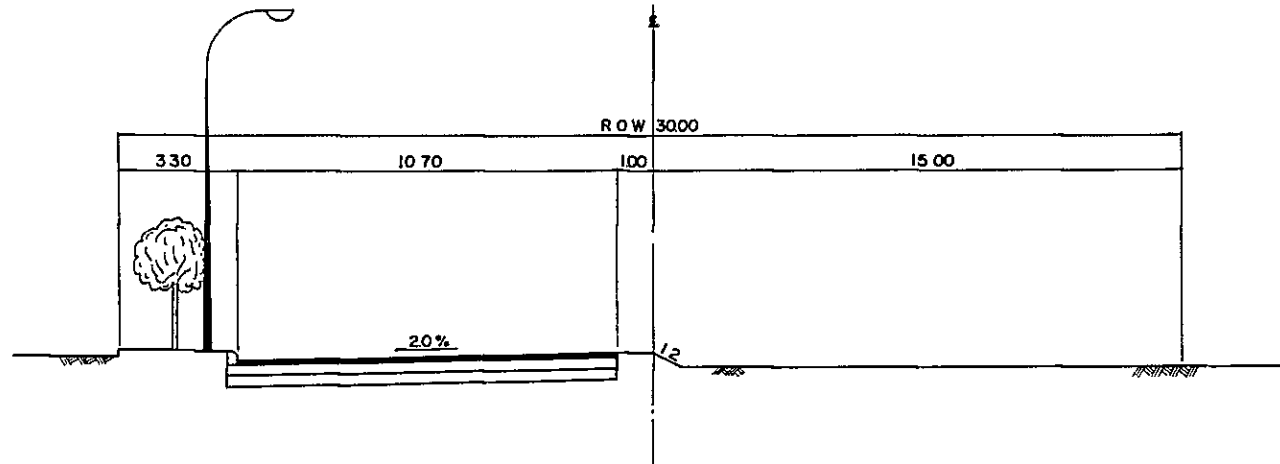
LEGEND

- RECOMMENDED ALIGNMENT
- - - ROADS PLANNED BY THE CITY
- · · IDEAL ROUTES

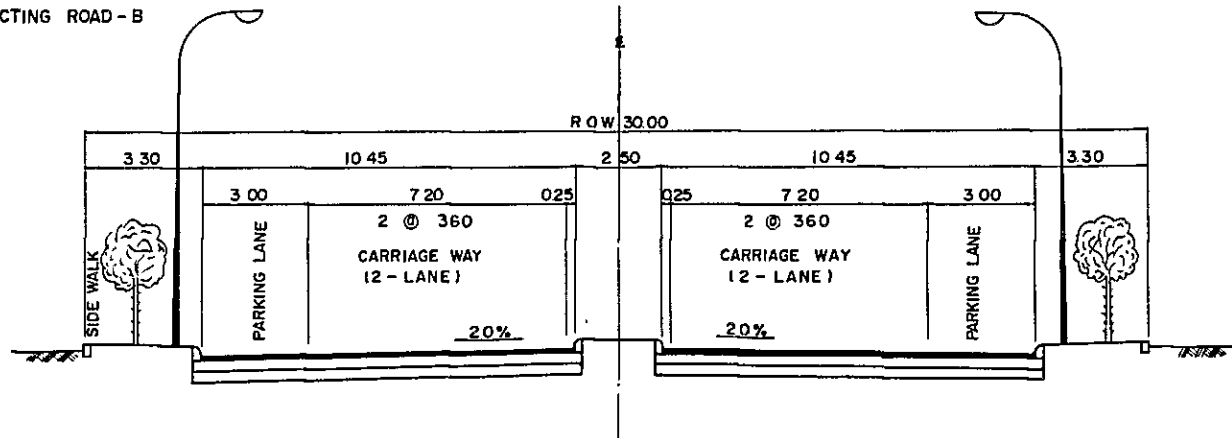


BOUNDARY RING ROAD SECTION 1
(BAGHDAD STREET TO BIAT RAS STREET)

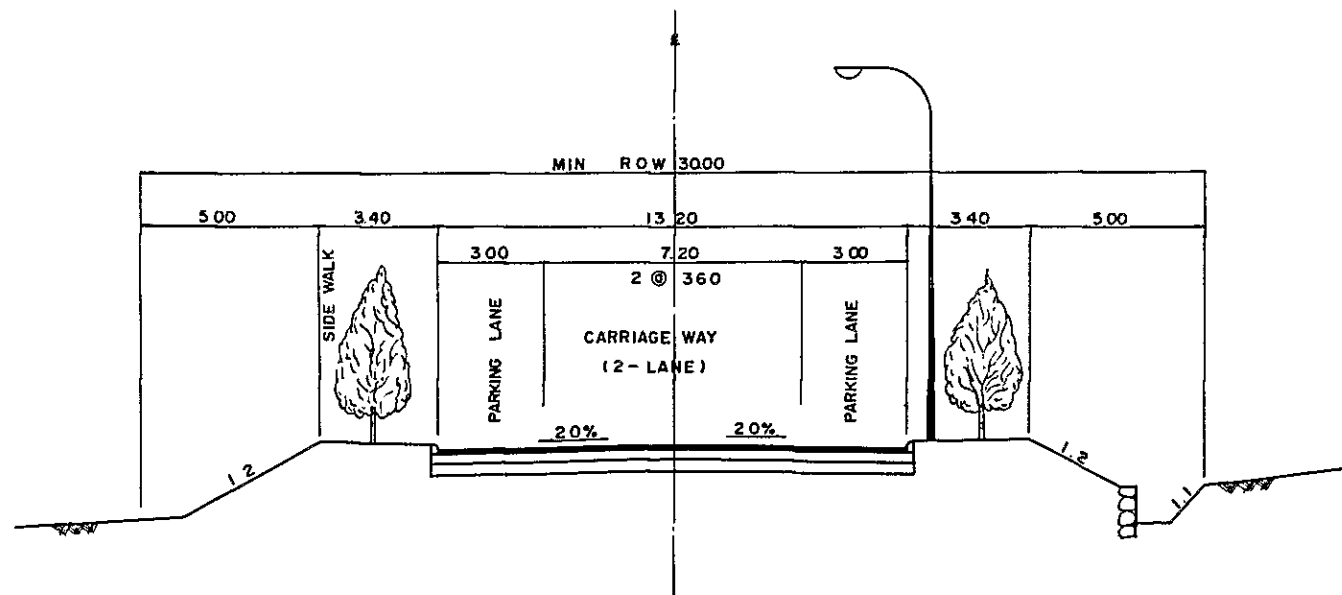
STAGE 1



BOUNDARY RING ROAD SECTION 1
STAGE 2 AND
CONNECTING ROAD - B



BOUNDARY RING ROAD SECTION 2
(BEIT RAS STREET TO PALESTINE STREET)



RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

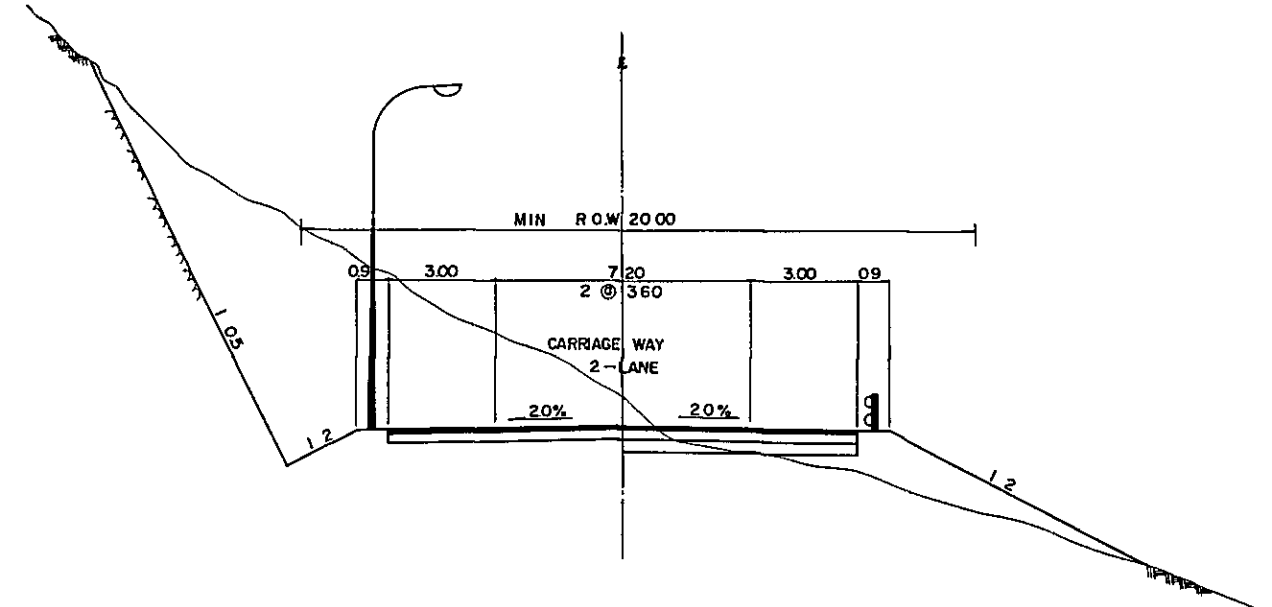
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TYPICAL CROSS SECTION
RING ROAD IN IRBID CITY

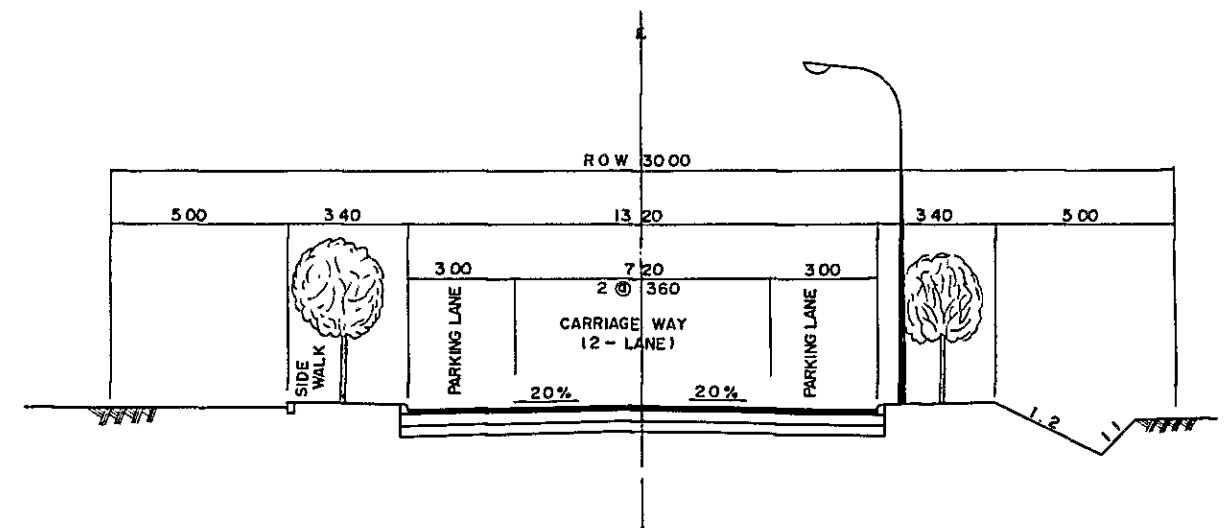
DRAWING NO

1/1

BOUNDARY RING ROAD SECTION 3
(PALESTINE STREET TO BAB AL-WADD STREET)



OUTER RING ROAD AND CONNECTING ROAD - A

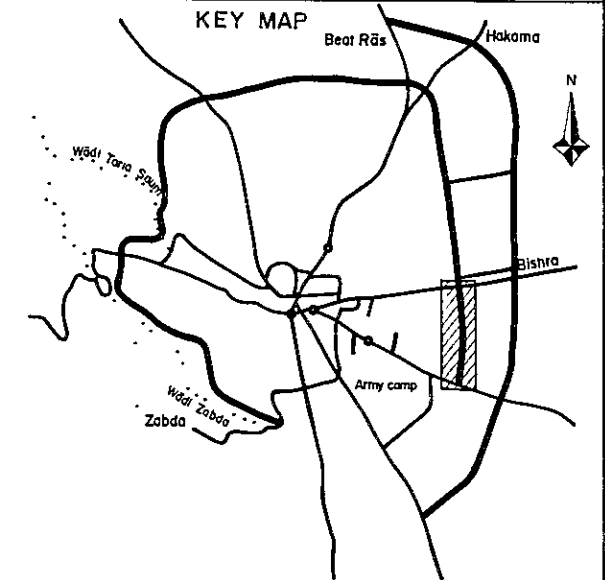


RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
H = 1:5000
V = 1:500

BOUNDARY RING ROAD
PLAN AND PROFILE

DRAWING NO
1/18

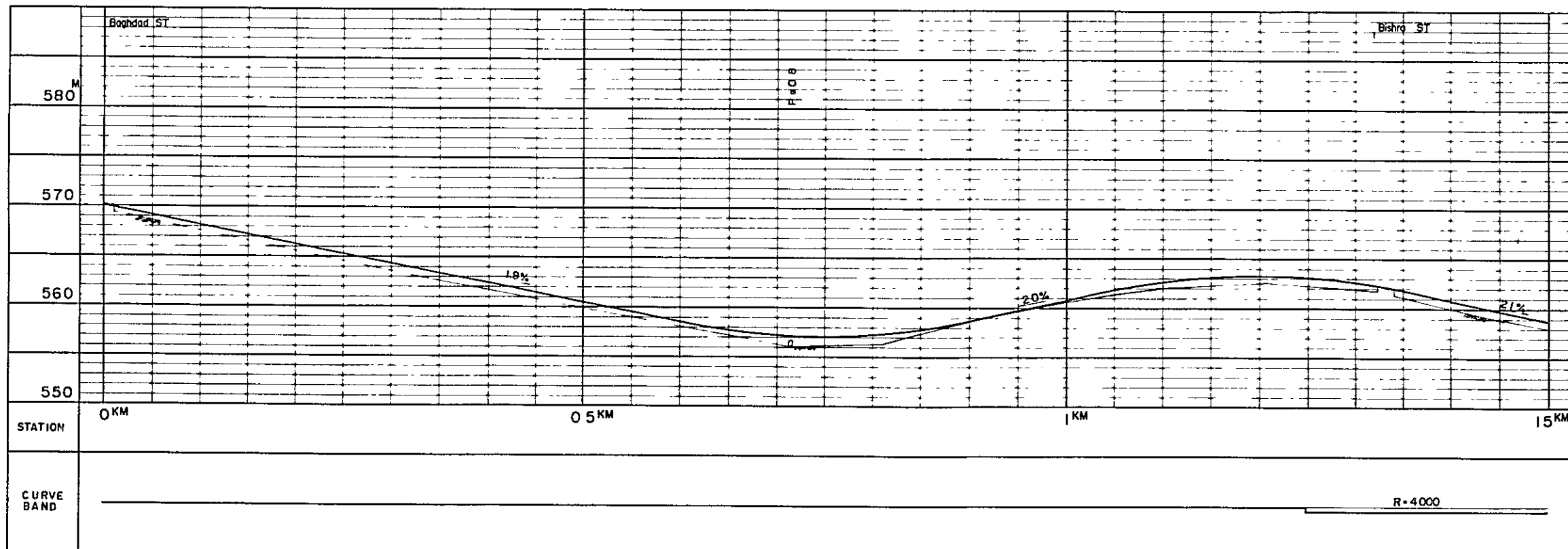


LEGEND

HORIZONTAL ALIGNMENT

SCALE 1:5000

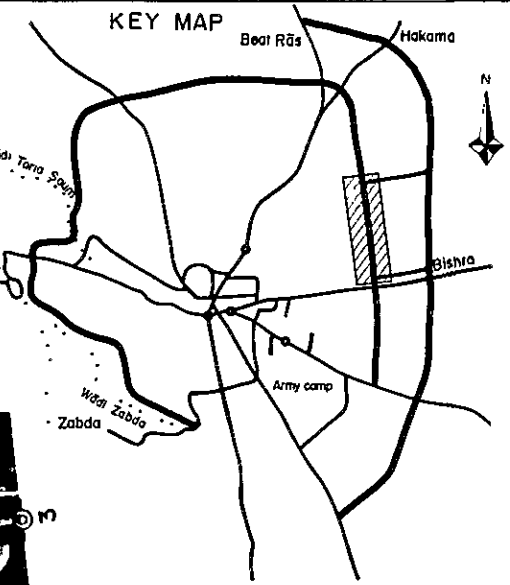
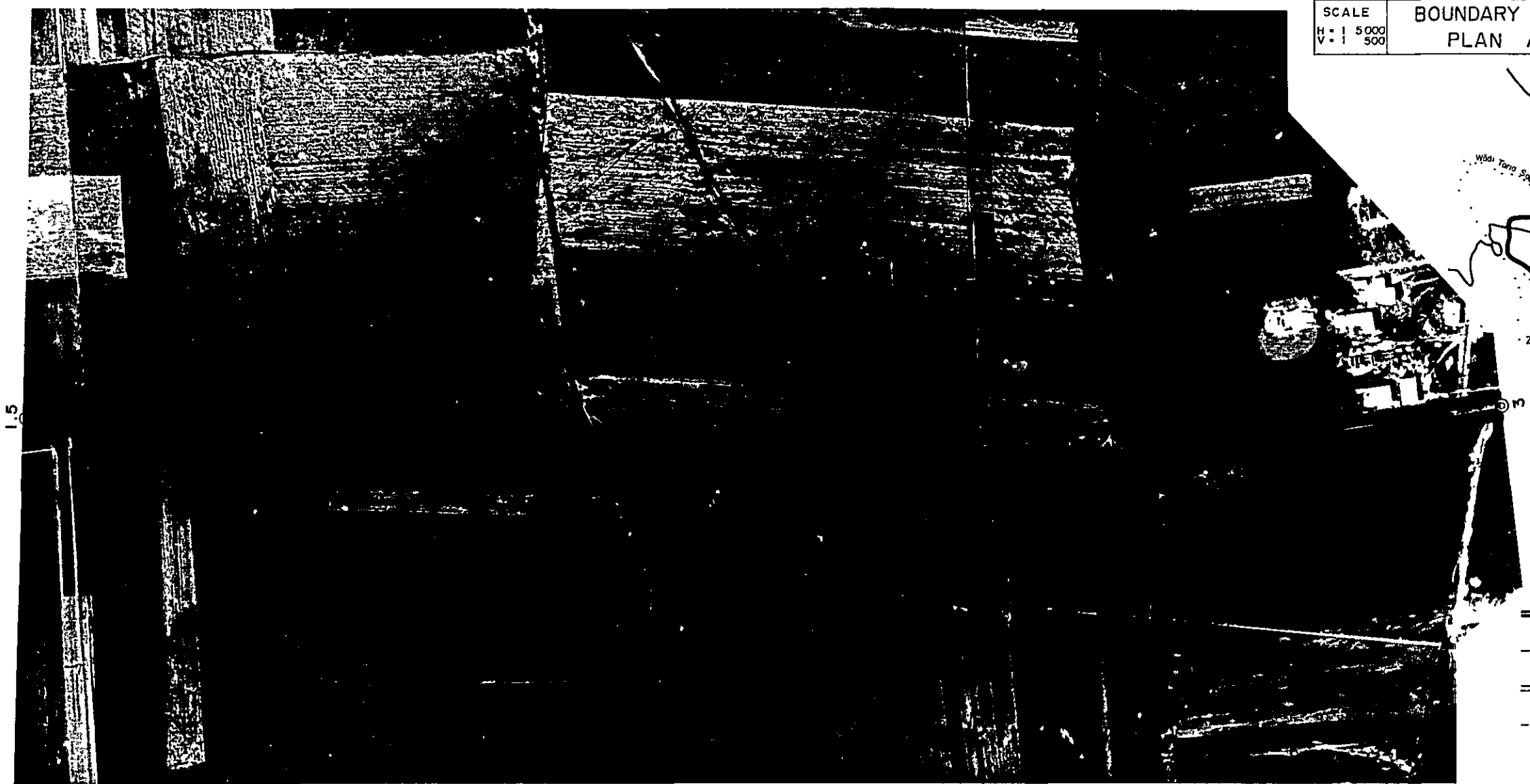
- CENTER LINE OF RECOMMENDED ALIGNMENT
- BOUNDARY OF RIGHT OF WAY
- CROSS ROAD
- CULVERT
- RADIUS



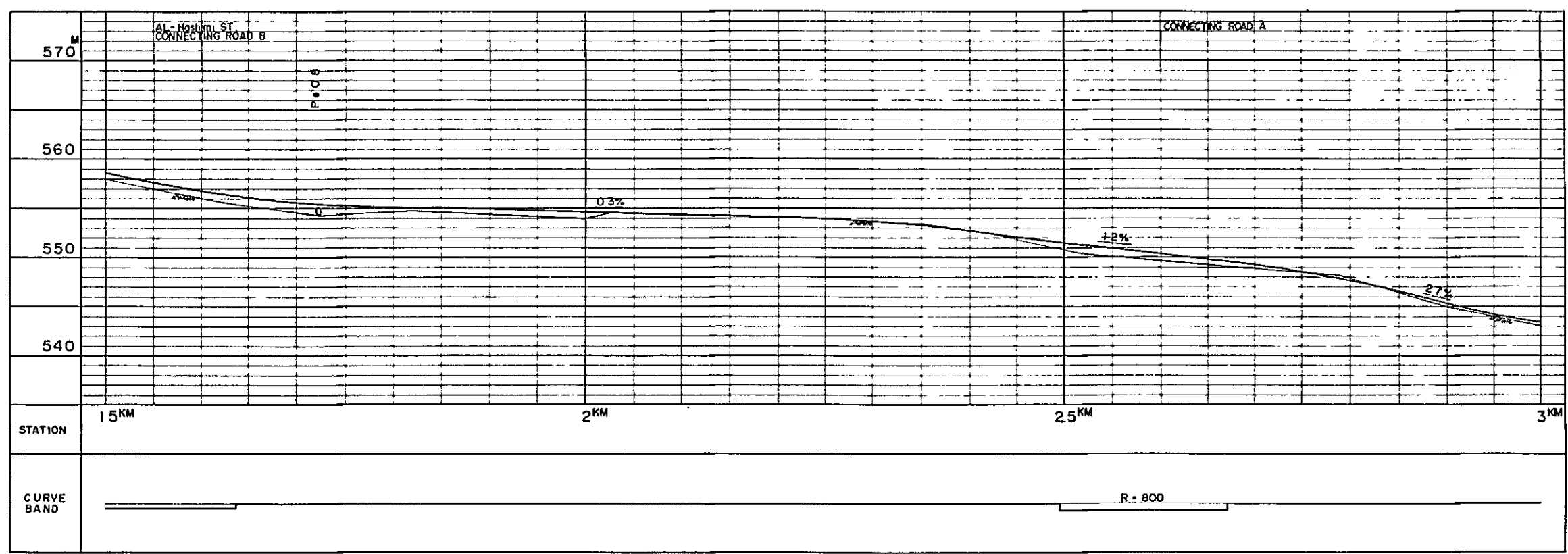
VERTICAL ALIGNMENT

HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:500

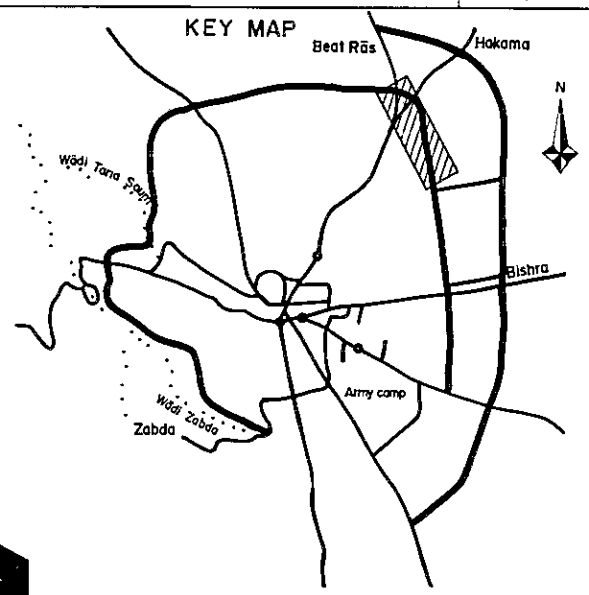
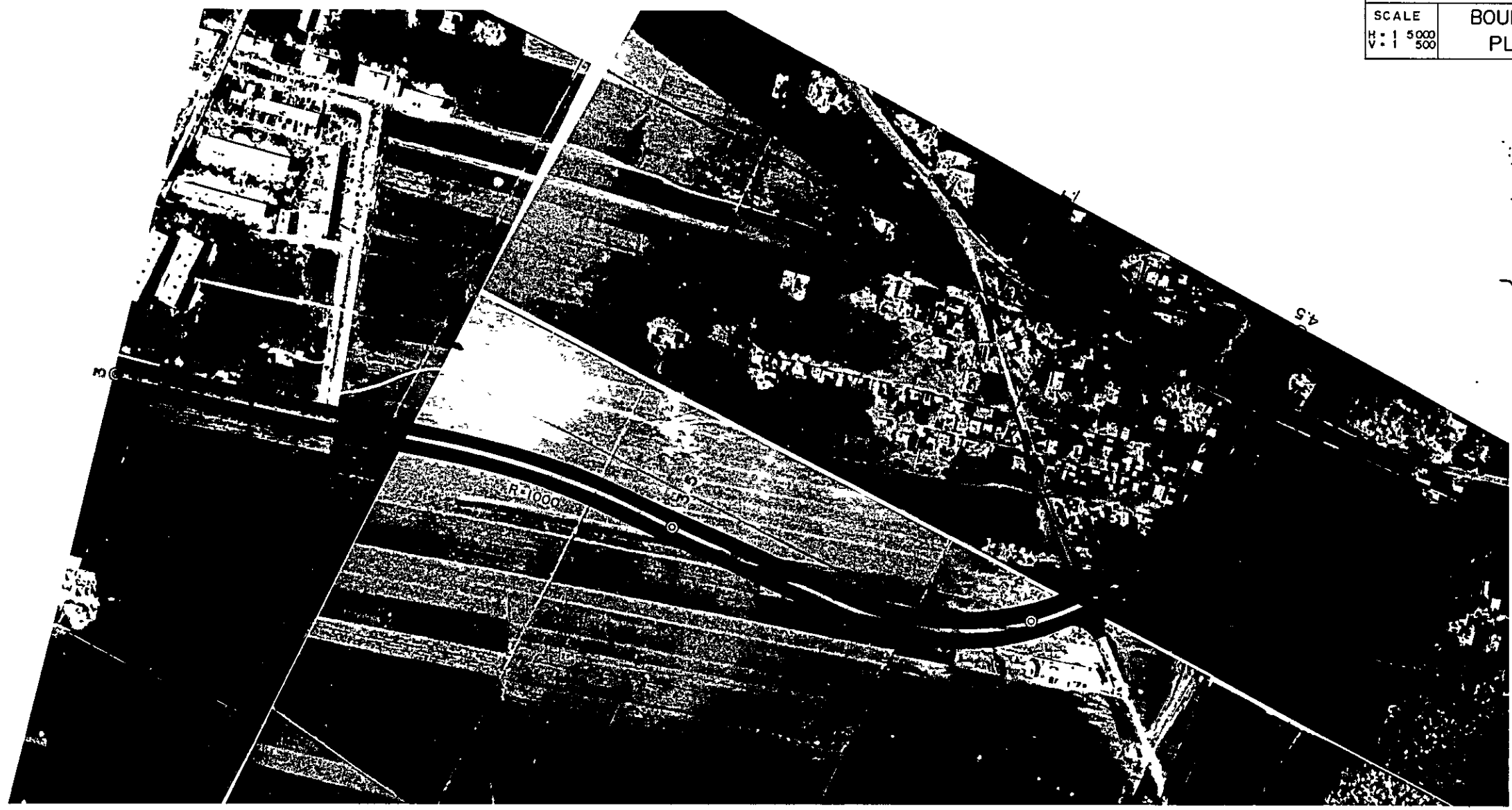
- GRADIENT OF RECOMMENDED ALIGNMENT
- EXISTING GROUND
- BOX CULVERT
- PIPE CULVERT
- HIGH WATER LEVEL



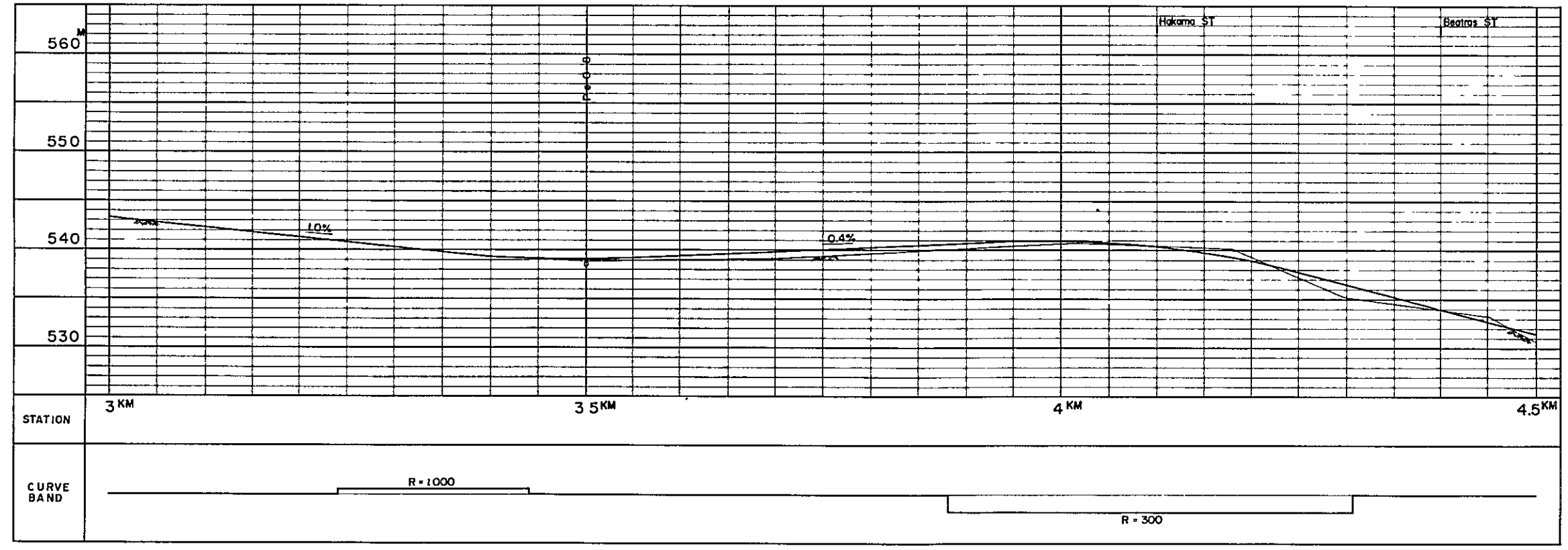
- LEGEND**
- HORIZONTAL ALIGNMENT
 SCALE 1 5000
- ===== CENTER LINE OF RECOMMENDED ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - ==== CROSS ROAD
 - |--- CULVERT
 - R RADIUS



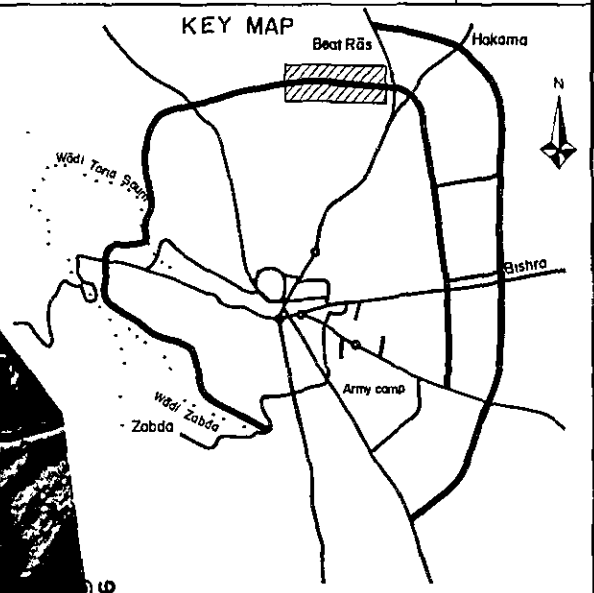
- VERTICAL ALIGNMENT**
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 VERTICAL SCALE 1 500
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - BOX CULVERT
 - PIPE CULVERT
 - ⊕ HIGH WATER LEVEL



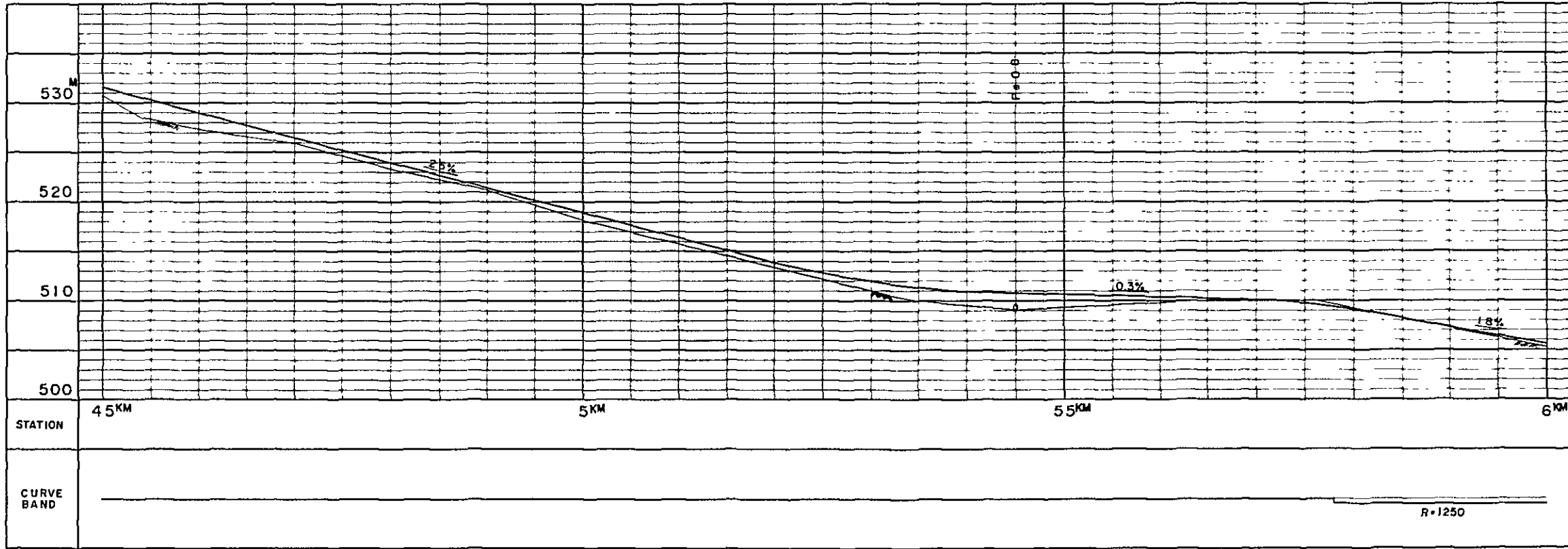
- LEGEND**
- HORIZONTAL ALIGNMENT
 SCALE 1 5 000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - CROSS ROAD
 - CULVERT
 - R** RADIUS



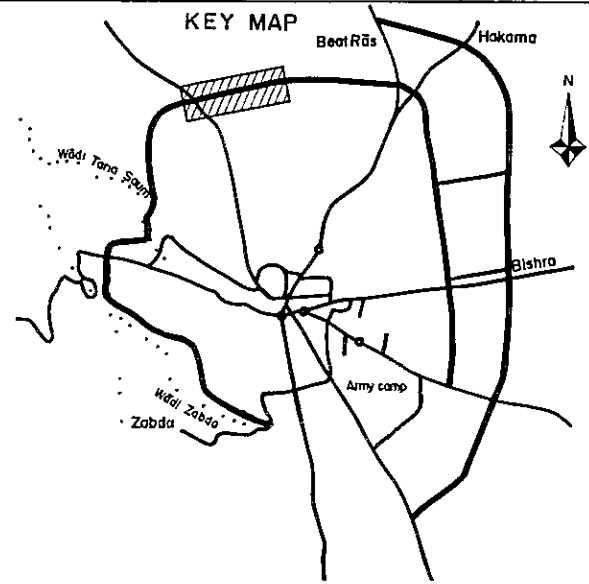
- VERTICAL ALIGNMENT**
 HORIZONTAL SCALE 1 5000
 VERTICAL SCALE 1 500
- GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - BOX CULVERT
 - PIPE CULVERT
 - HIGH WATER LEVEL



- LEGEND**
- HORIZONTAL ALIGNMENT**
 SCALE 1:5000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - - - - BOUNDARY OF RIGHT OF WAY
 - ==== CROSS ROAD
 - |_|- CULVERT
 - R RADIUS

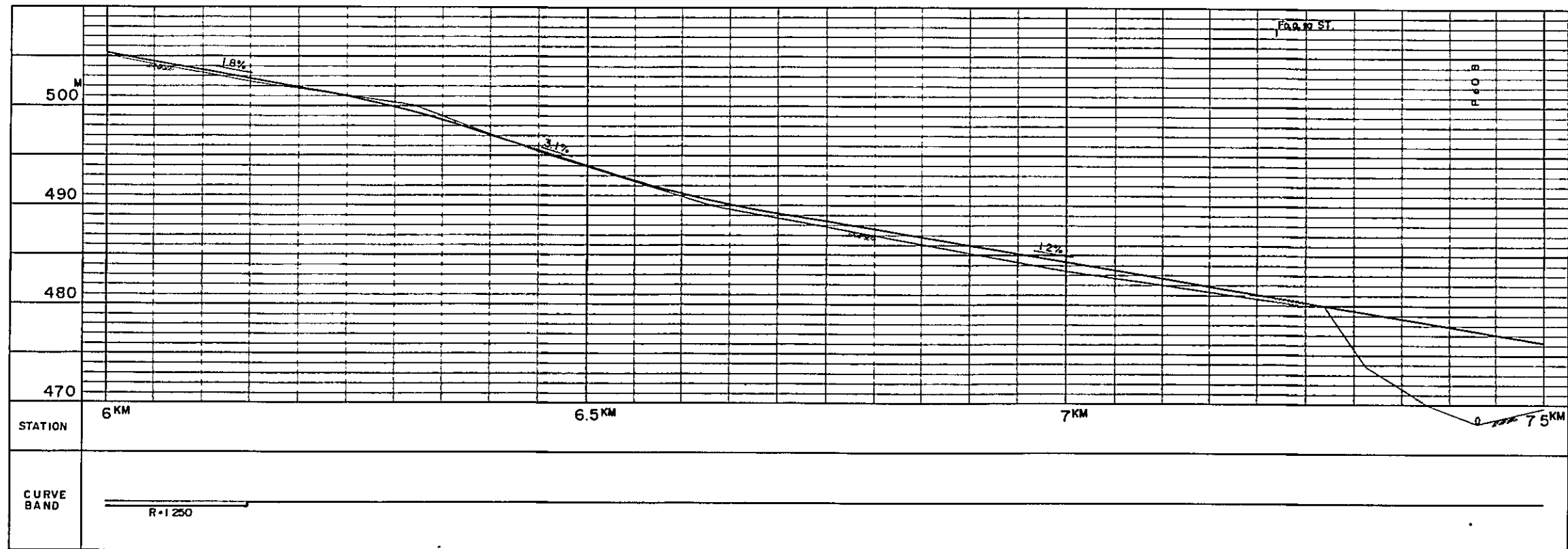


- VERTICAL ALIGNMENT**
 HORIZONTAL SCALE 1:5000
 VERTICAL SCALE 1:500
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - ~ EXISTING GROUND
 - ▣ BOX CULVERT
 - PIPE CULVERT
 - ↘ HIGH WATER LEVEL



LEGEND

- HORIZONTAL ALIGNMENT
 SCALE 1 5 000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - - - BOUNDARY OF RIGHT OF WAY
 - === CROSS ROAD
 - - - CULVERT
 - R RADIUS



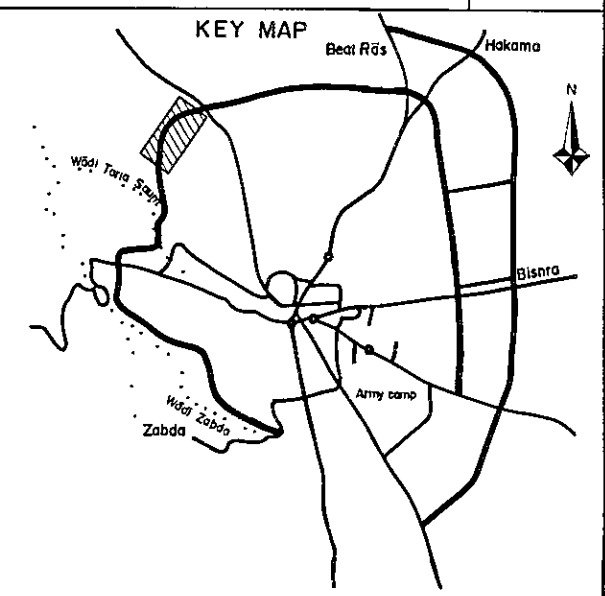
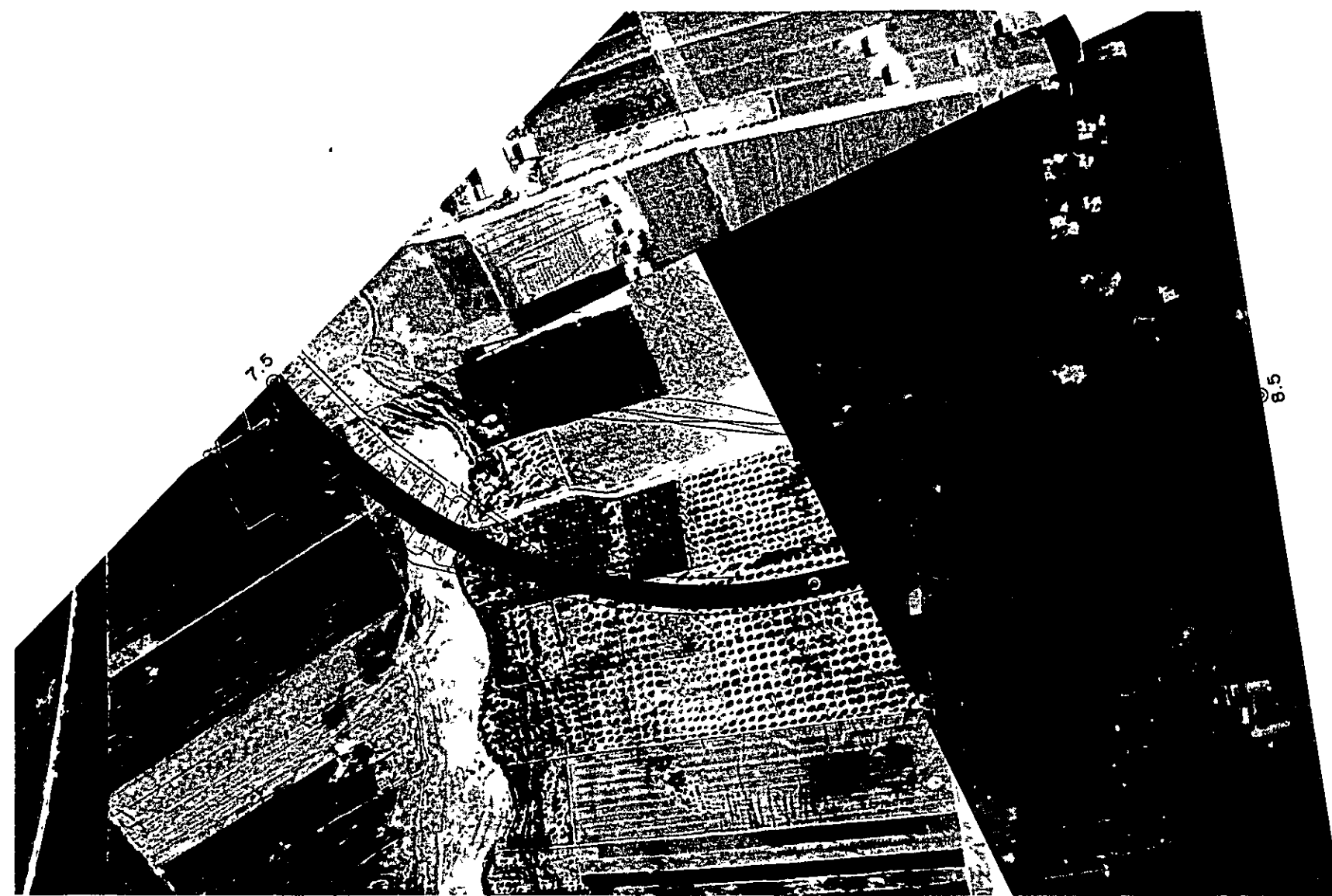
- VERTICAL ALIGNMENT
 HORIZONTAL SCALE 1 5 000
 VERTICAL SCALE 1 500
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - ~ EXISTING GROUND
 - BOX CULVERT
 - PIPE CULVERT
 - ⬇ HIGH WATER LEVEL

RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
H: 1:5000
V: 1:500

BOUNDARY RING ROAD
PLAN AND PROFILE

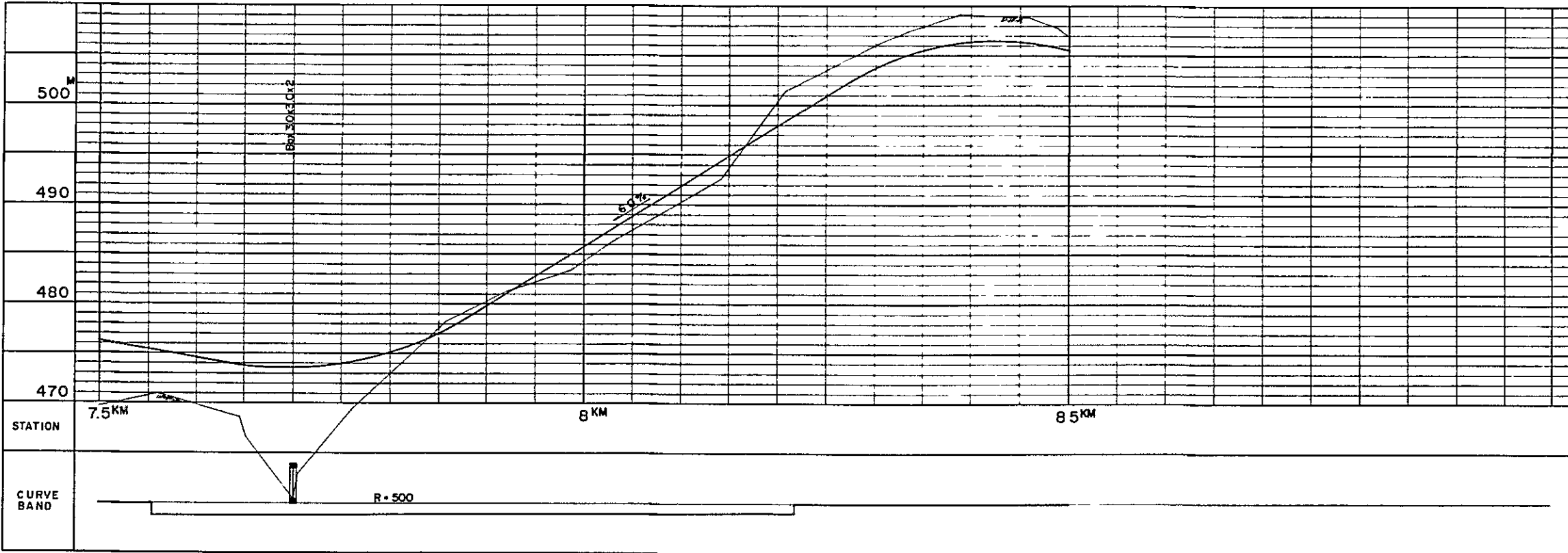
DRAWING NO
6/18



LEGEND

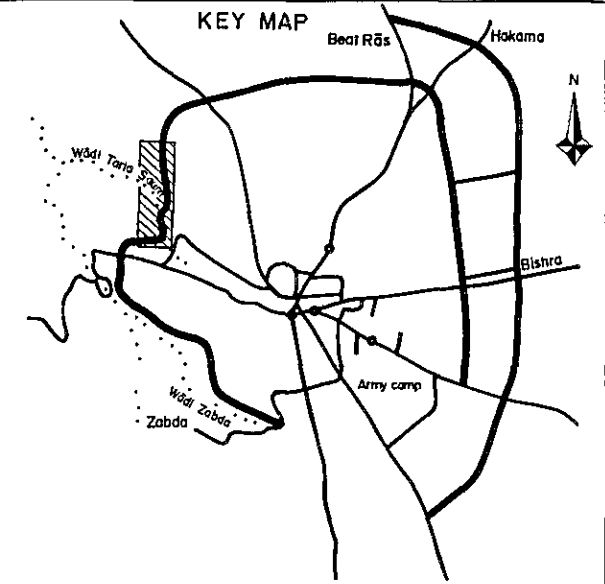
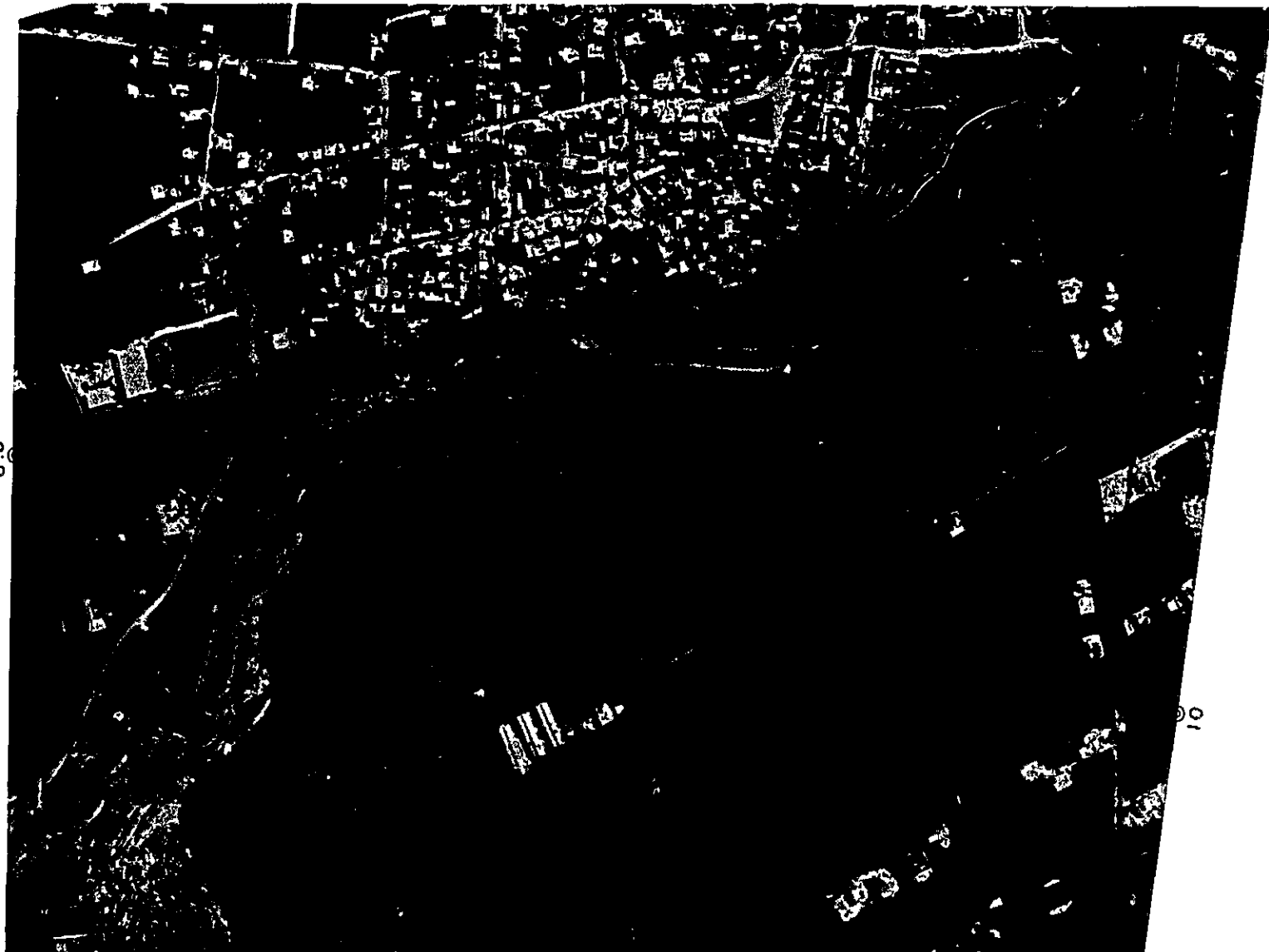
HORIZONTAL ALIGNMENT

- SCALE 1:5000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - - - - BOUNDARY OF RIGHT OF WAY
 - ==== CROSS ROAD
 - II - CULVERT
 - R RADIUS



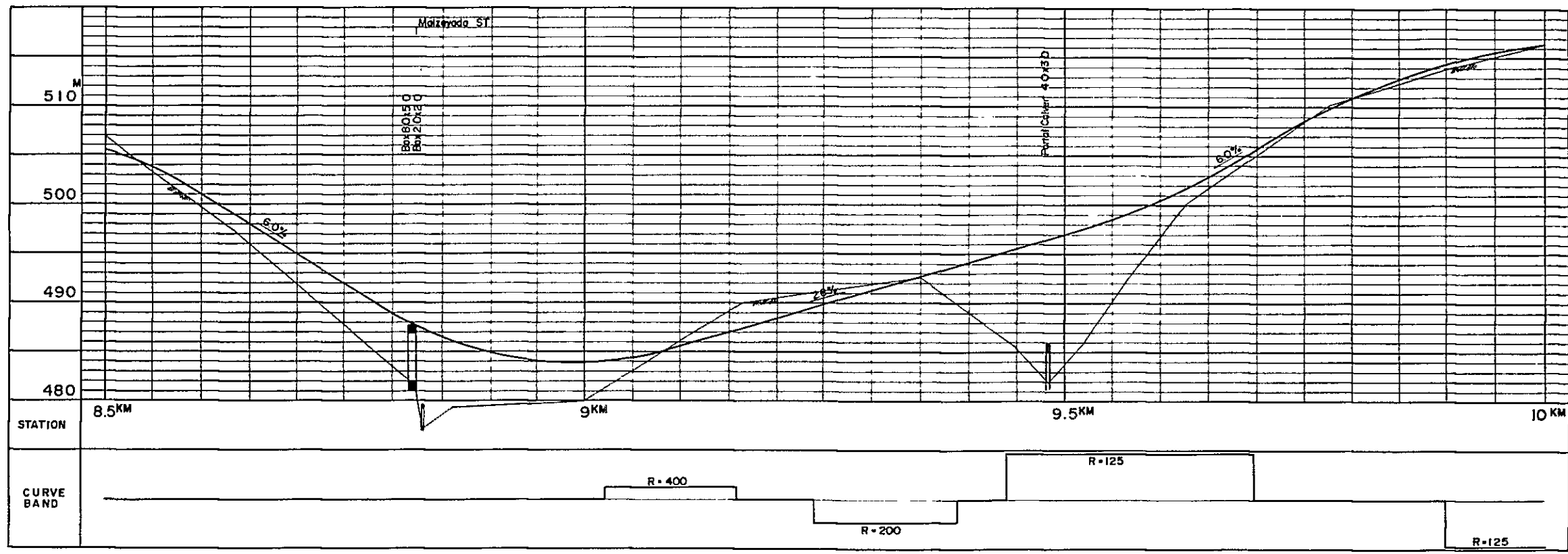
VERTICAL ALIGNMENT

- HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:500
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - BOX CULVERT
 - PIPE CULVERT
 - ↘ HIGH WATER LEVEL

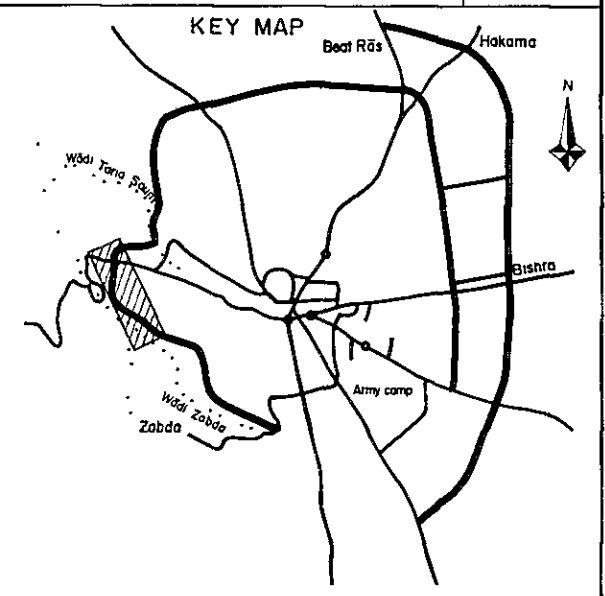
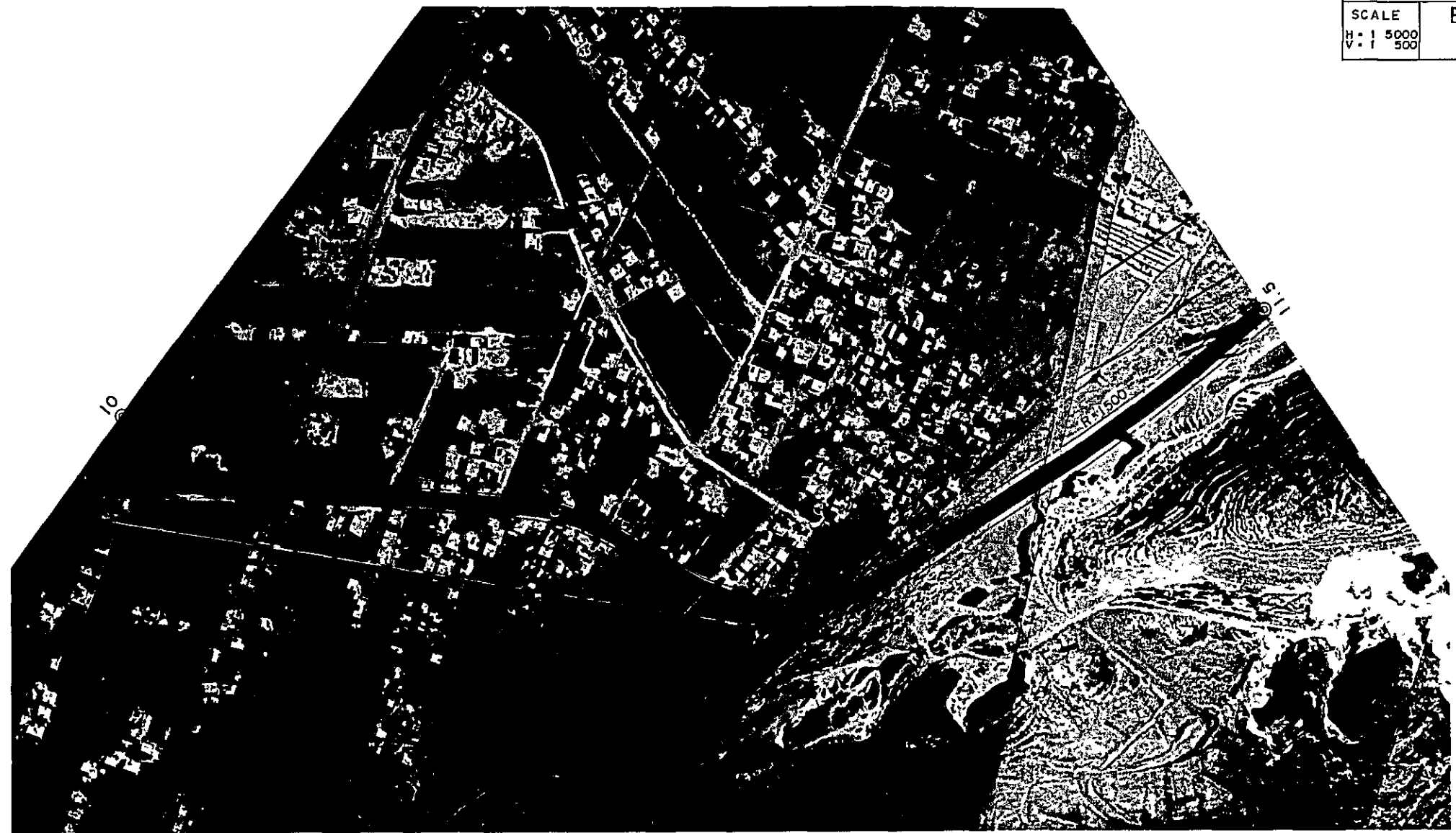


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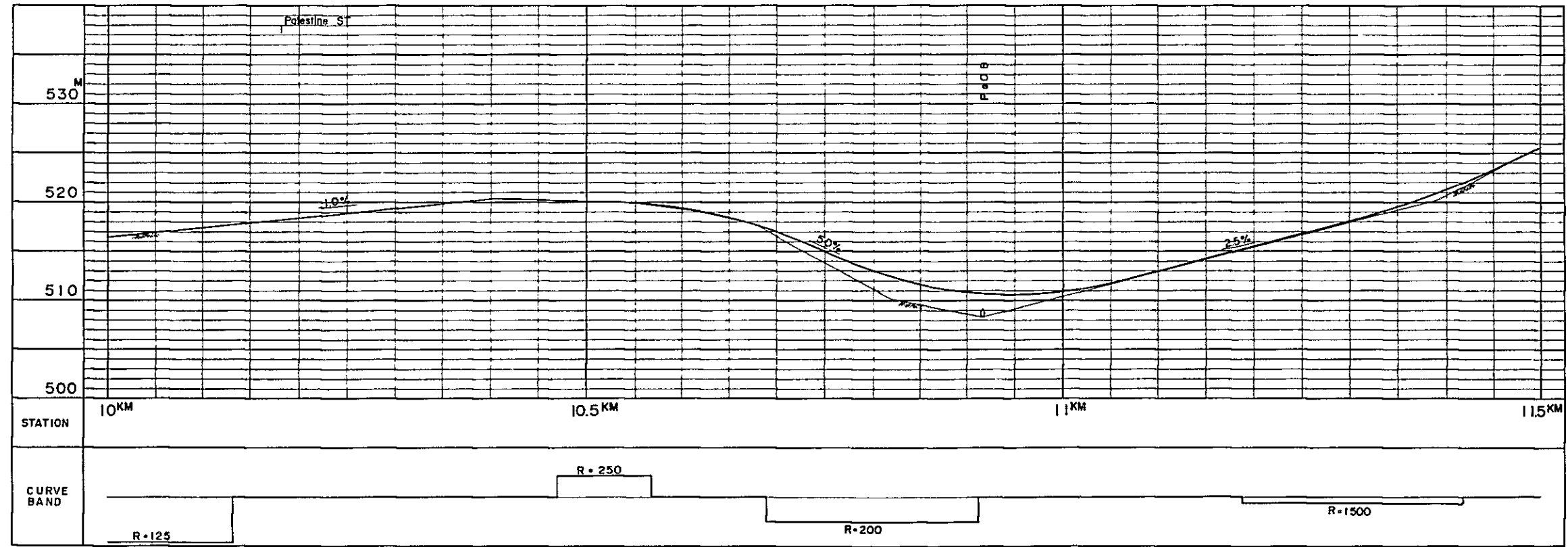
- HORIZONTAL ALIGNMENT
 SCALE 1 5000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - ==== CROSS ROAD
 - - - - - CULVERT
 - R RADIUS



- VERTICAL ALIGNMENT
 HORIZONTAL SCALE 1 5000
 VERTICAL SCALE 1 500
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - ▣ BOX CULVERT
 - PIPE CULVERT
 - ⤵ HIGH WATER LEVEL



- LEGEND**
- HORIZONTAL ALIGNMENT**
 SCALE 1 5000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - - - - BOUNDARY OF RIGHT OF WAY
 - ==== CROSS ROAD
 - - - - CULVERT
 - R RADIUS



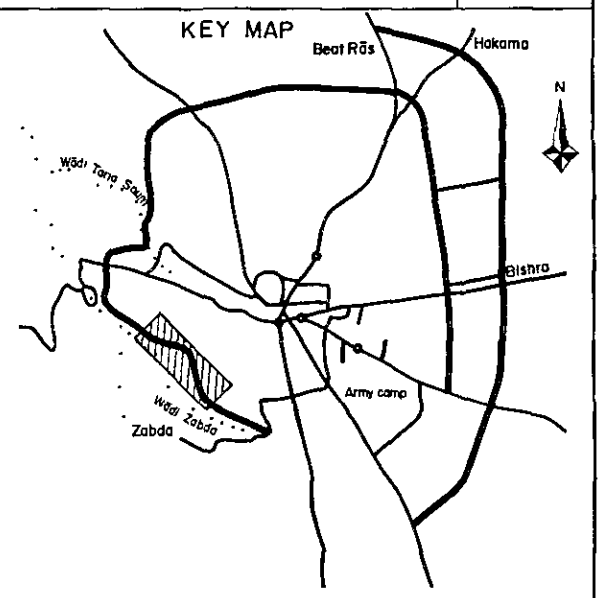
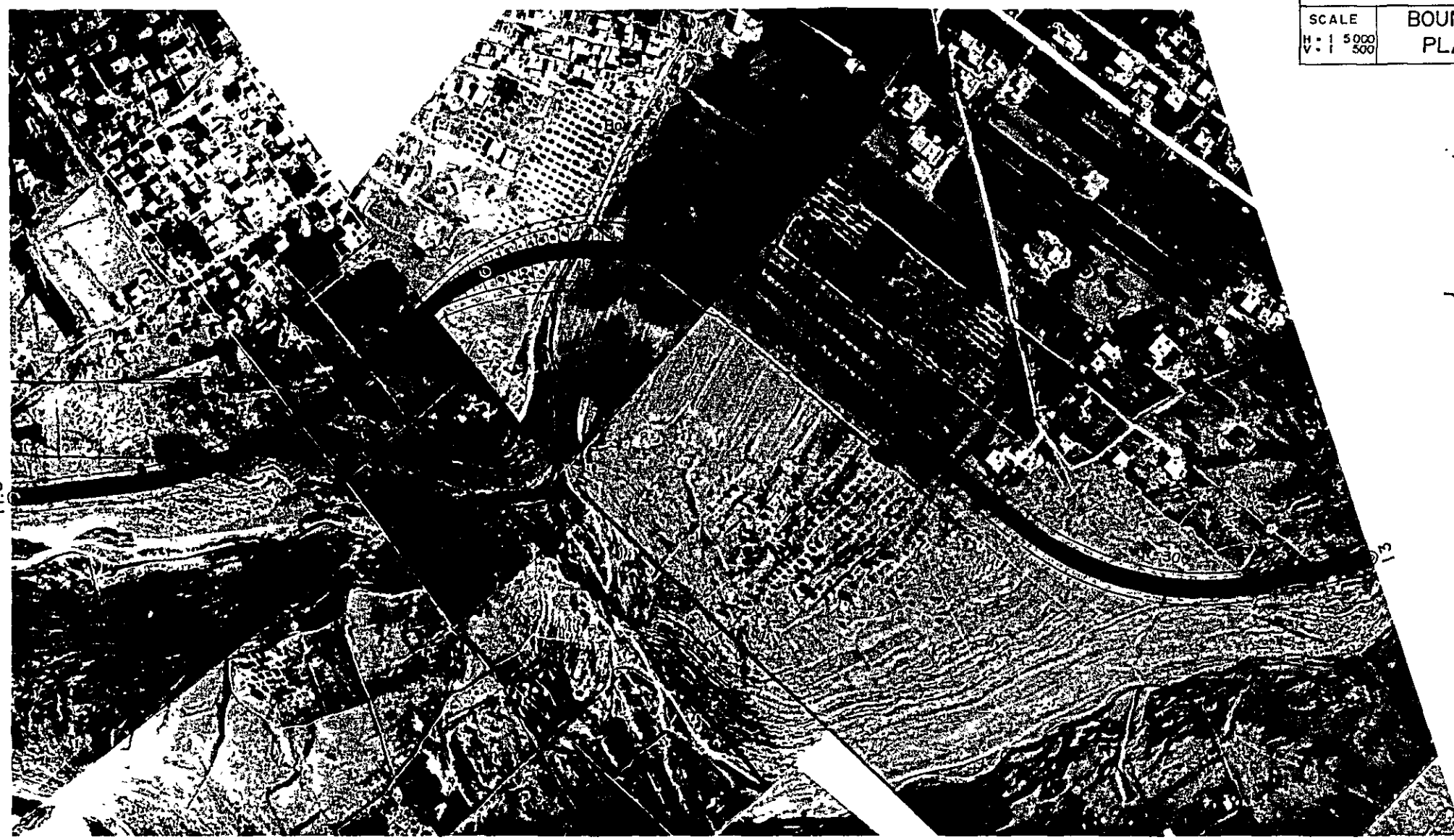
- VERTICAL ALIGNMENT**
 HORIZONTAL SCALE 1 5000
 VERTICAL SCALE 1 500
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - - - - EXISTING GROUND
 - BOX CULVERT
 - PIPE CULVERT
 - ↘ HIGH WATER LEVEL

RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
H: 1 5000
V: 1 500

BOUNDARY RING ROAD
PLAN AND PROFILE

DRAWING NO
9/18



LEGEND

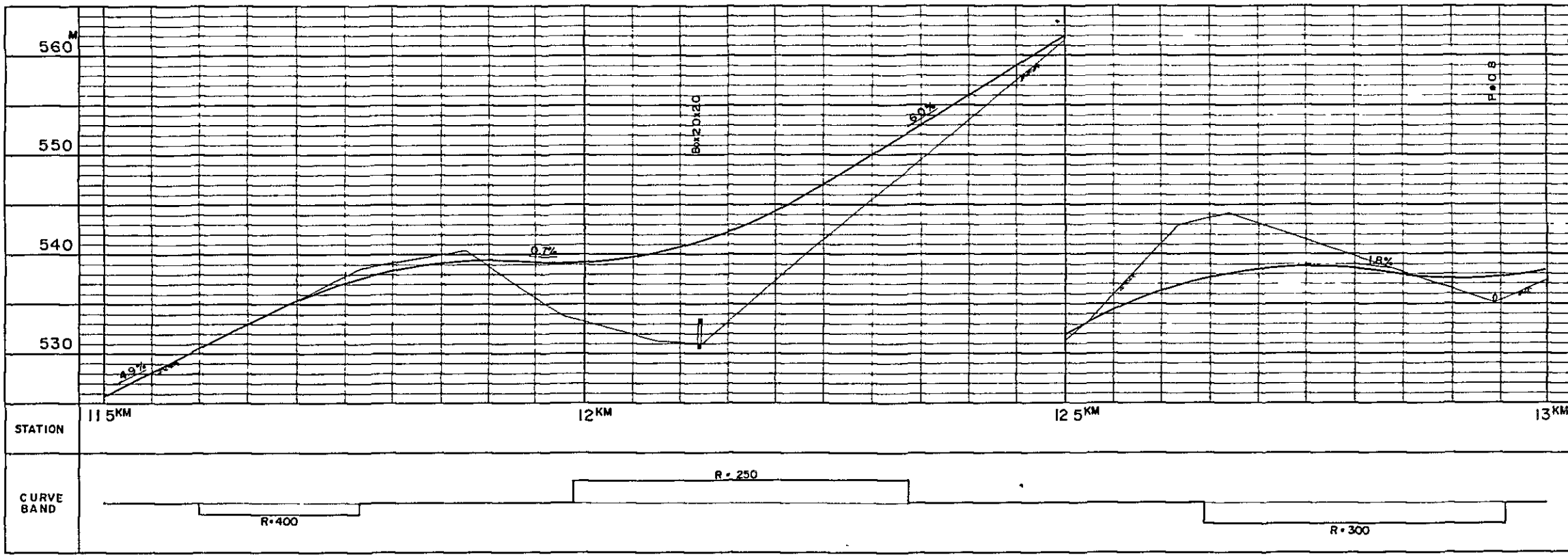
HORIZONTAL ALIGNMENT

- SCALE 1 5000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - CROSS ROAD
 - CULVERT
 - RADIUS

VERTICAL ALIGNMENT

HORIZONTAL SCALE 1 5000
VERTICAL SCALE 1 500

- +10% GRADIENT OF RECOMMENDED ALIGNMENT
- EXISTING GROUND
- BOX CULVERT
- PIPE CULVERT
- HIGH WATER LEVEL

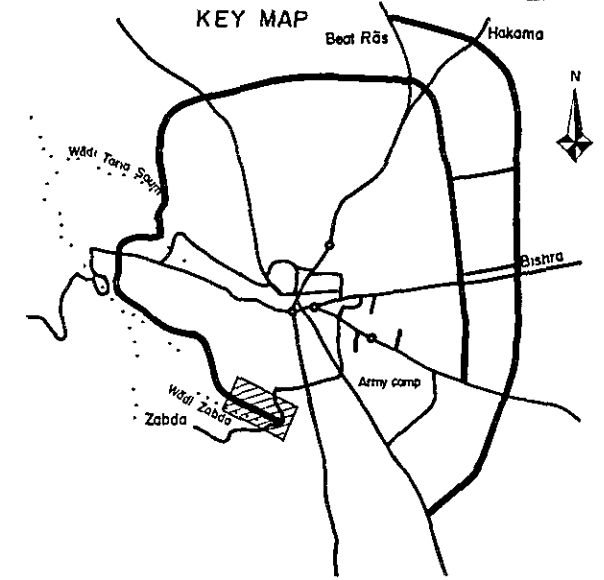


RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
H: 1/5000
V: 1/500

BOUNDARY RING ROAD
PLAN AND PROFILE

DRAWING NO
10/18

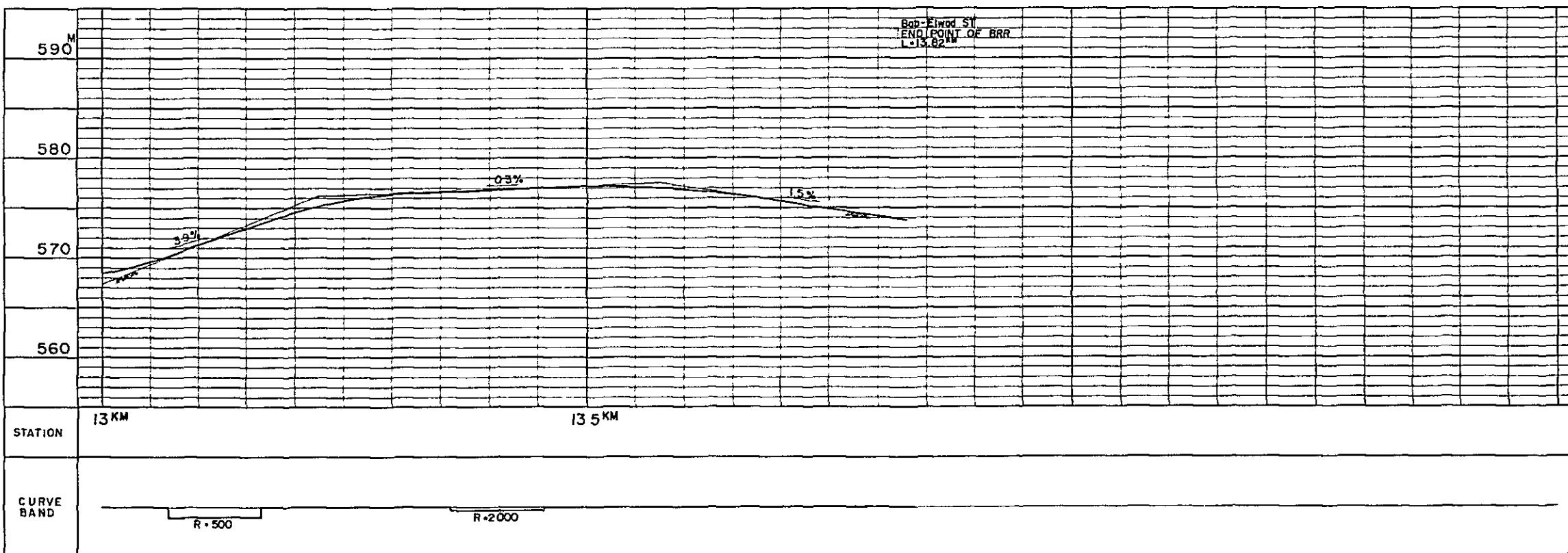


LEGEND

HORIZONTAL ALIGNMENT

SCALE 1/5000

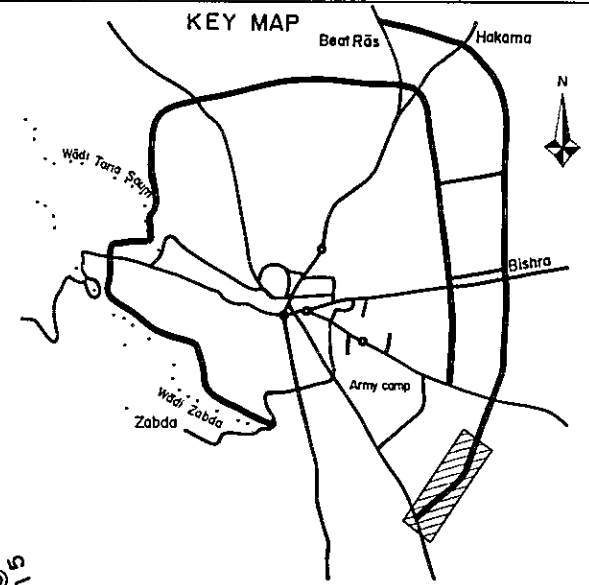
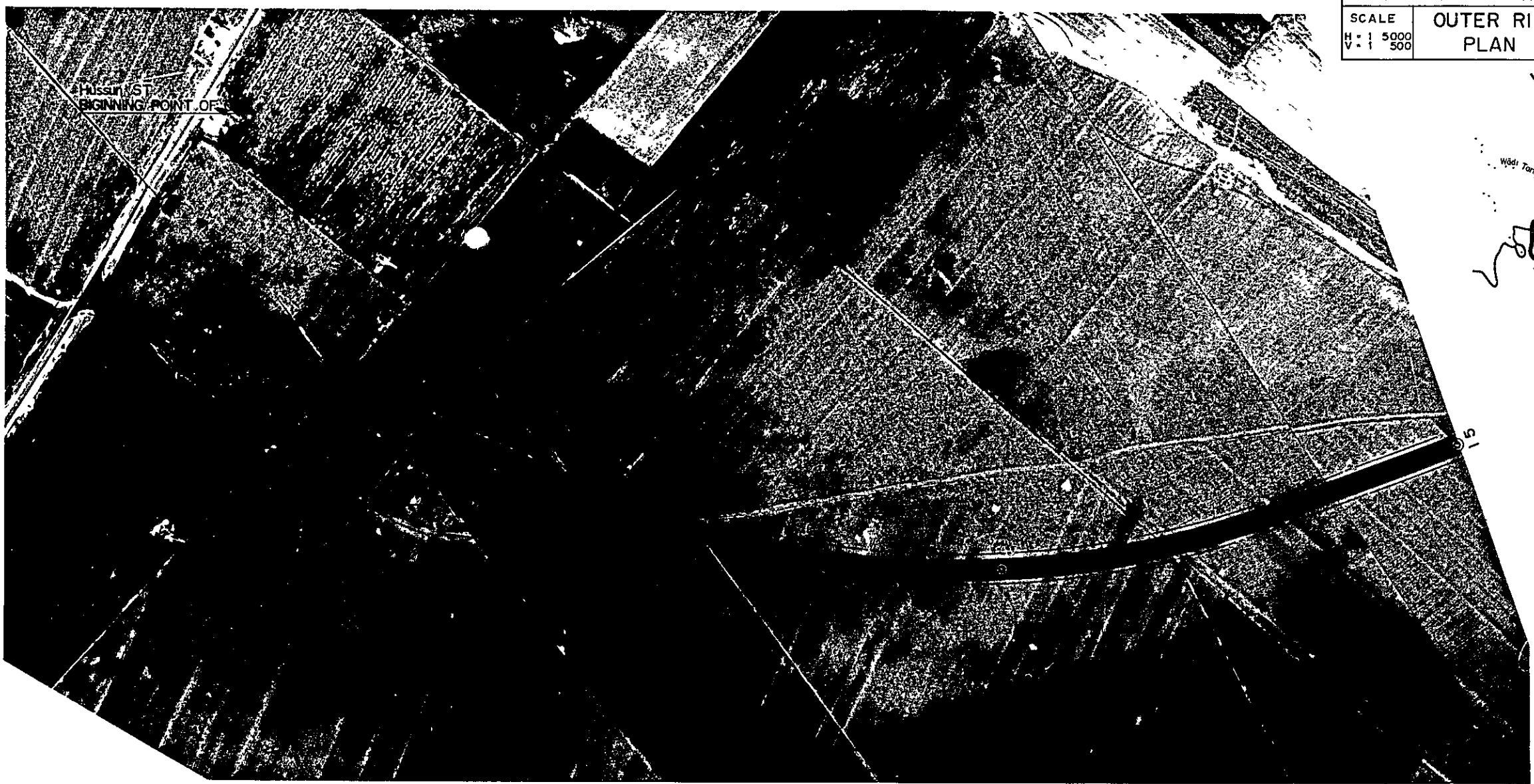
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- BOUNDARY OF RIGHT OF WAY
- CROSS ROAD
- CULVERT
- R** RADIUS



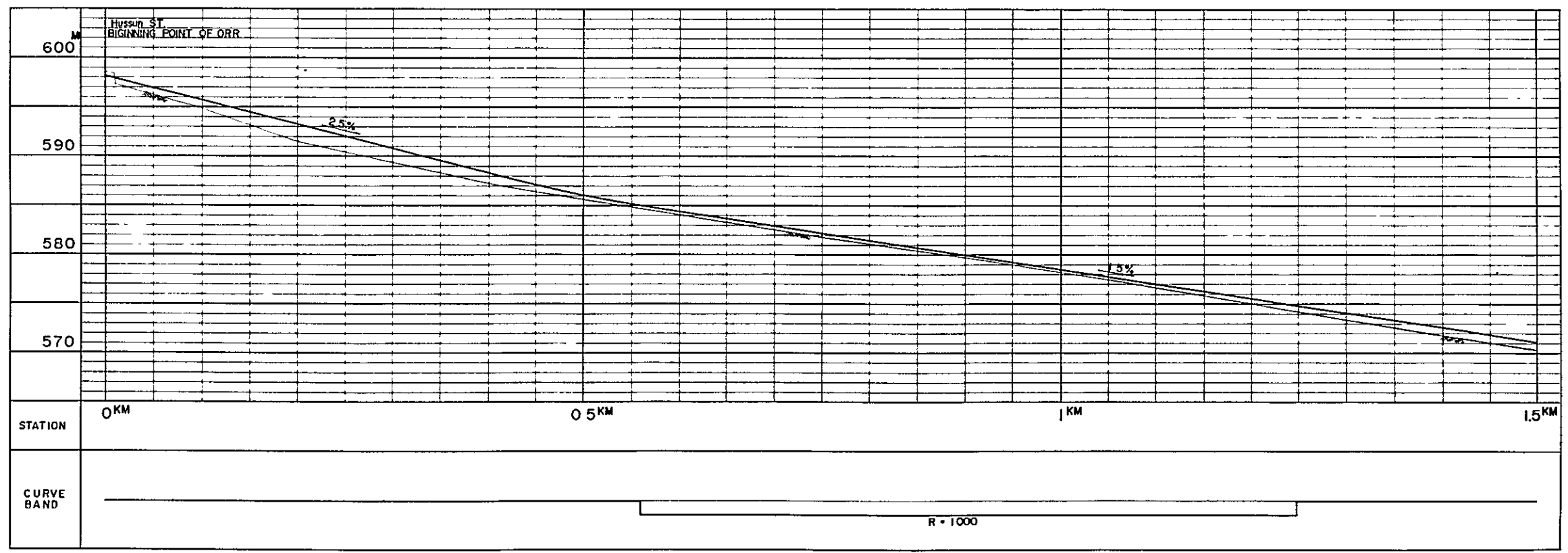
VERTICAL ALIGNMENT

HORIZONTAL SCALE 1/5000
VERTICAL SCALE 1/500

- +10% GRADIENT OF RECOMMENDED ALIGNMENT
- EXISTING GROUND
- BOX CULVERT
- PIPE CULVERT
- HIGH WATER LEVEL



- LEGEND**
- HORIZONTAL ALIGNMENT
 SCALE 1 5 000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - - - BOUNDARY OF RIGHT OF WAY
 - ==== CROSS ROAD
 - - - - - CULVERT
 - R RADIUS



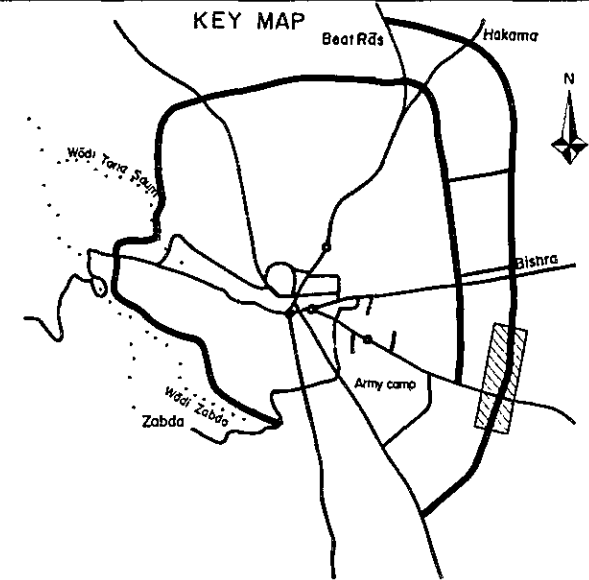
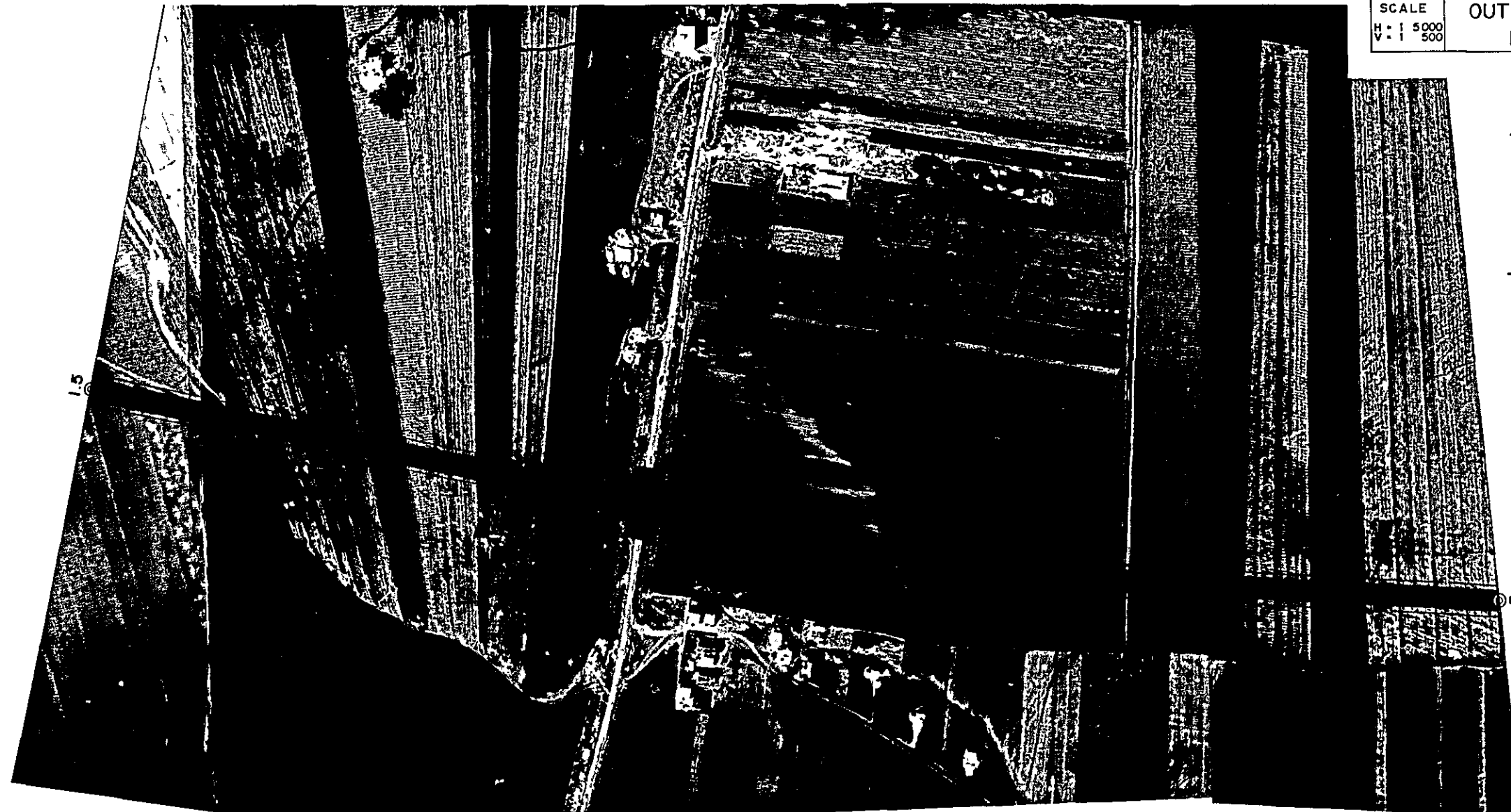
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 VERTICAL SCALE 1 5 00
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - BOX CULVERT
 - PIPE CULVERT
 - ↕ HIGH WATER LEVEL

RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
H : 1 5000
V : 1 500

OUTER RING ROAD
PLAN AND PROFILE

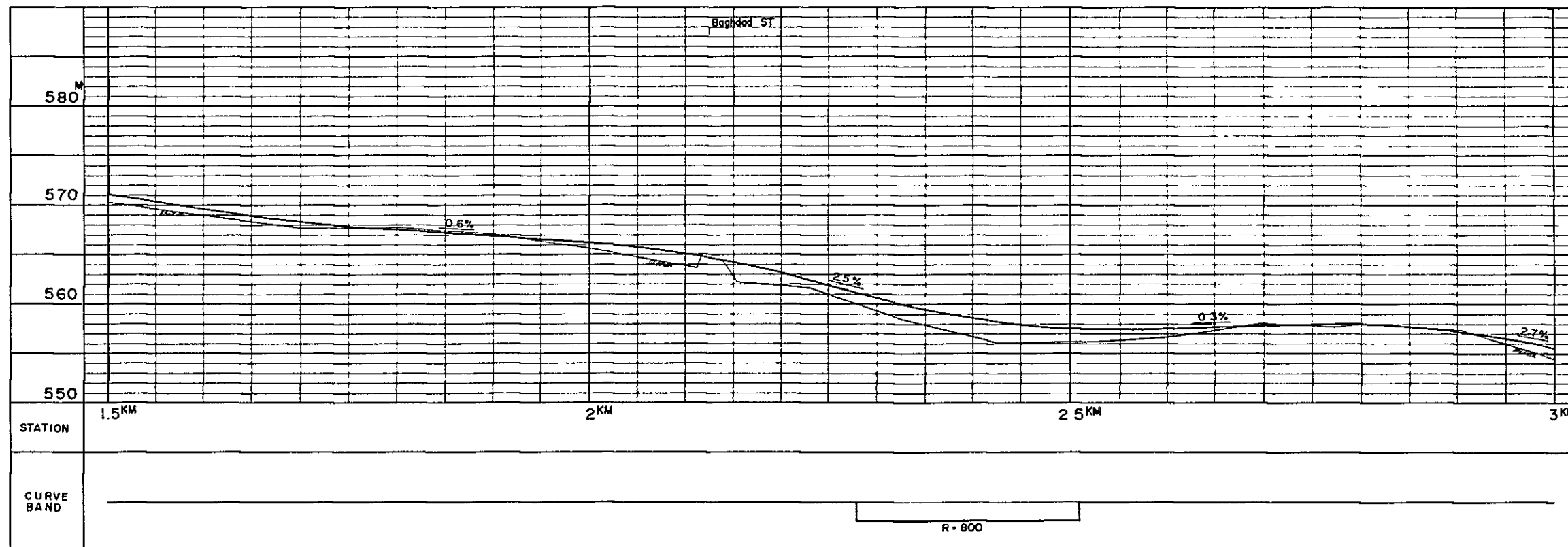
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12
18



LEGEND

HORIZONTAL ALIGNMENT

- SCALE 1 5 000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - - - - BOUNDARY OF RIGHT OF WAY
 - == CROSS ROAD
 - +— CULVERT
 - R RADIUS



VERTICAL ALIGNMENT

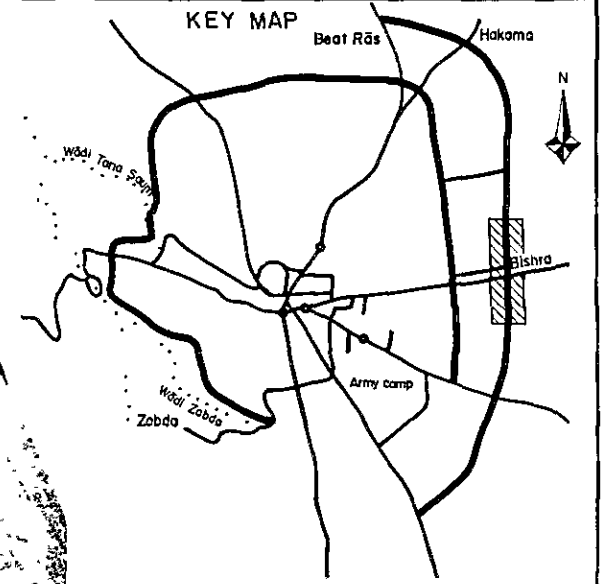
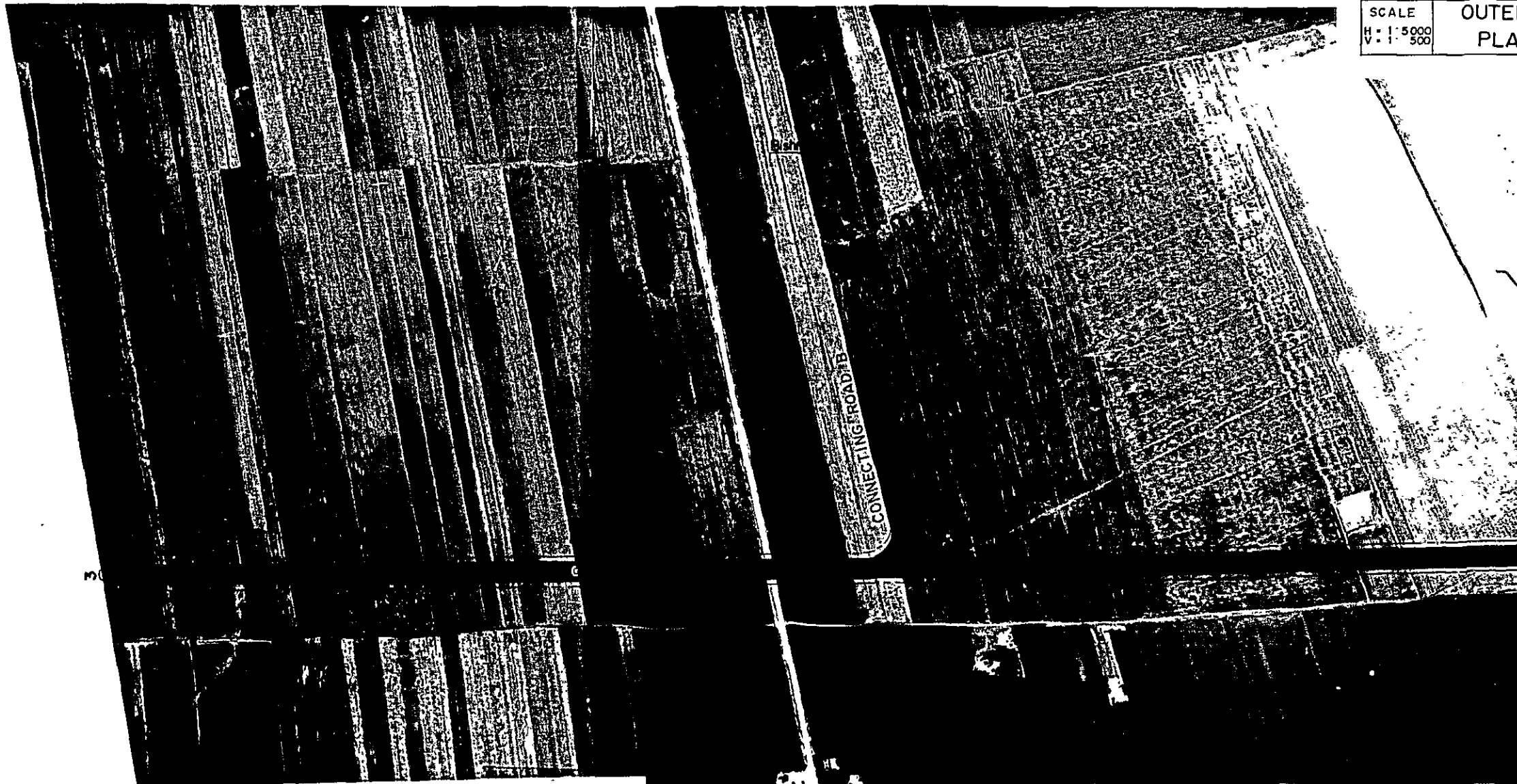
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VERTICAL SCALE 1 500
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - BOX CULVERT
 - PIPE CULVERT
 - HIGH WATER LEVEL

RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
H: 1:5000
V: 1:500

OUTER RING ROAD
PLAN AND PROFILE

DRAWING NO
13
18

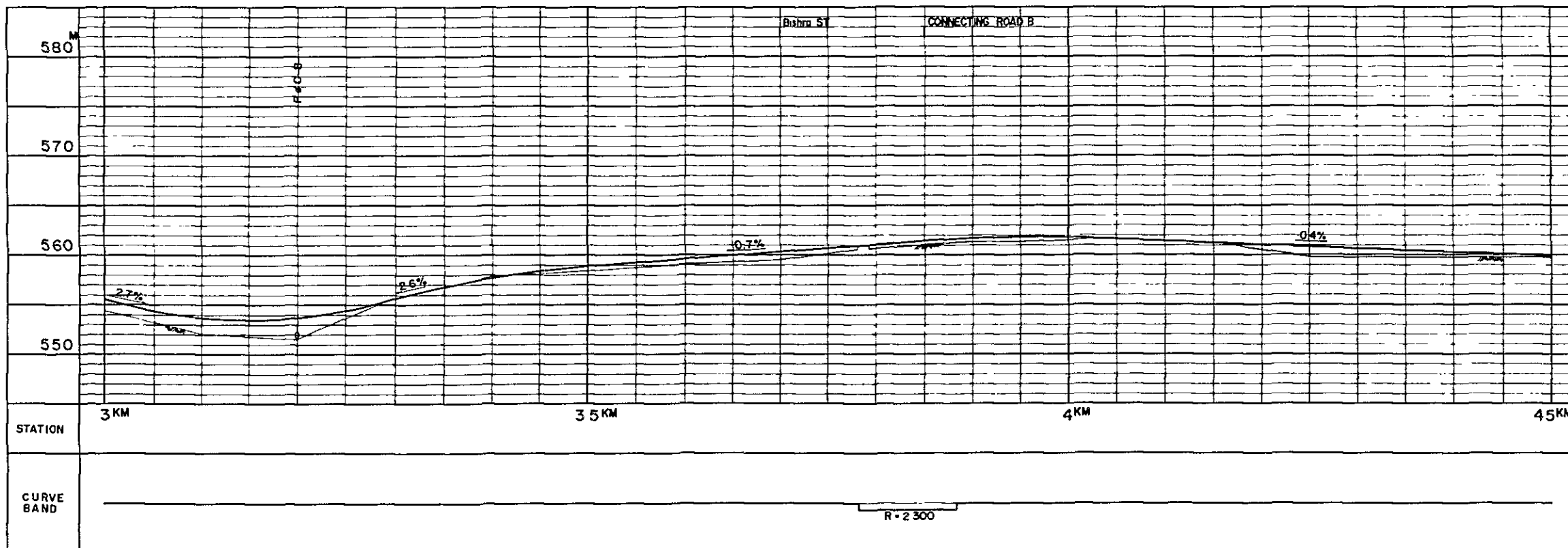


LEGEND

HORIZONTAL ALIGNMENT

SCALE 1:5000

- CENTER LINE OF RECOMMENDED ALIGNMENT
- BOUNDARY OF RIGHT OF WAY
- CROSS ROAD
- CULVERT
- RADIUS



VERTICAL ALIGNMENT

HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:500

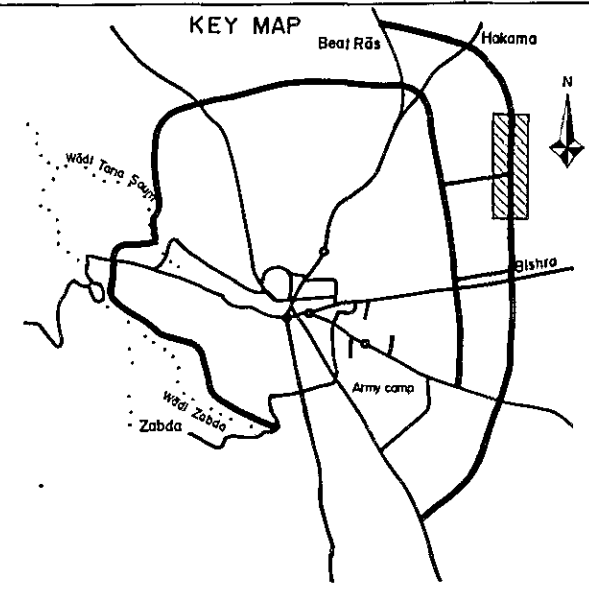
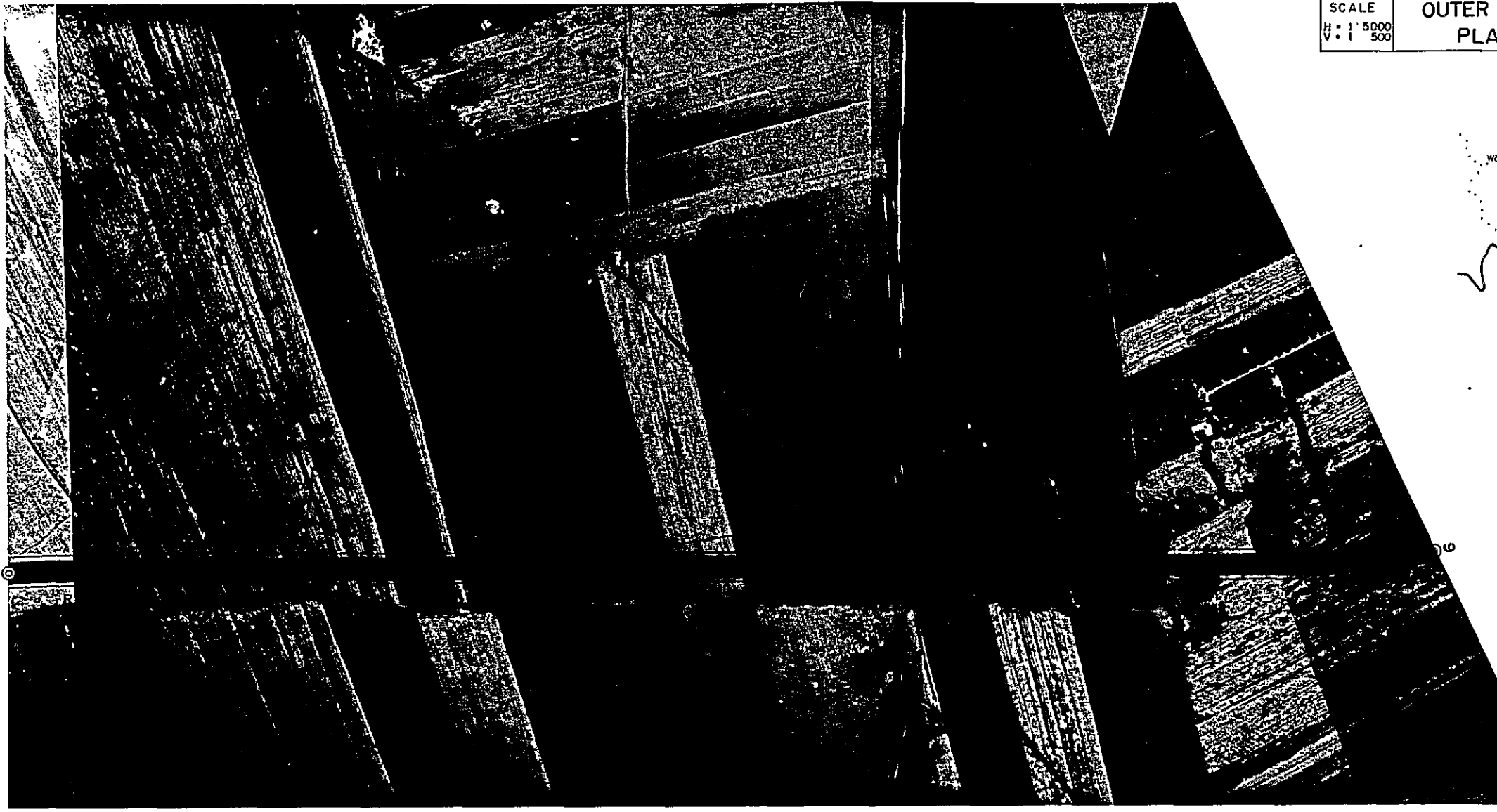
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
- EXISTING GROUND
- BOX CULVERT
- PIPE CULVERT
- HIGH WATER LEVEL

RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
H = 1 : 5000
V = 1 : 500

OUTER RING ROAD
PLAN AND PROFILE

DRAWING NO
14 / 18



LEGEND

HORIZONTAL ALIGNMENT

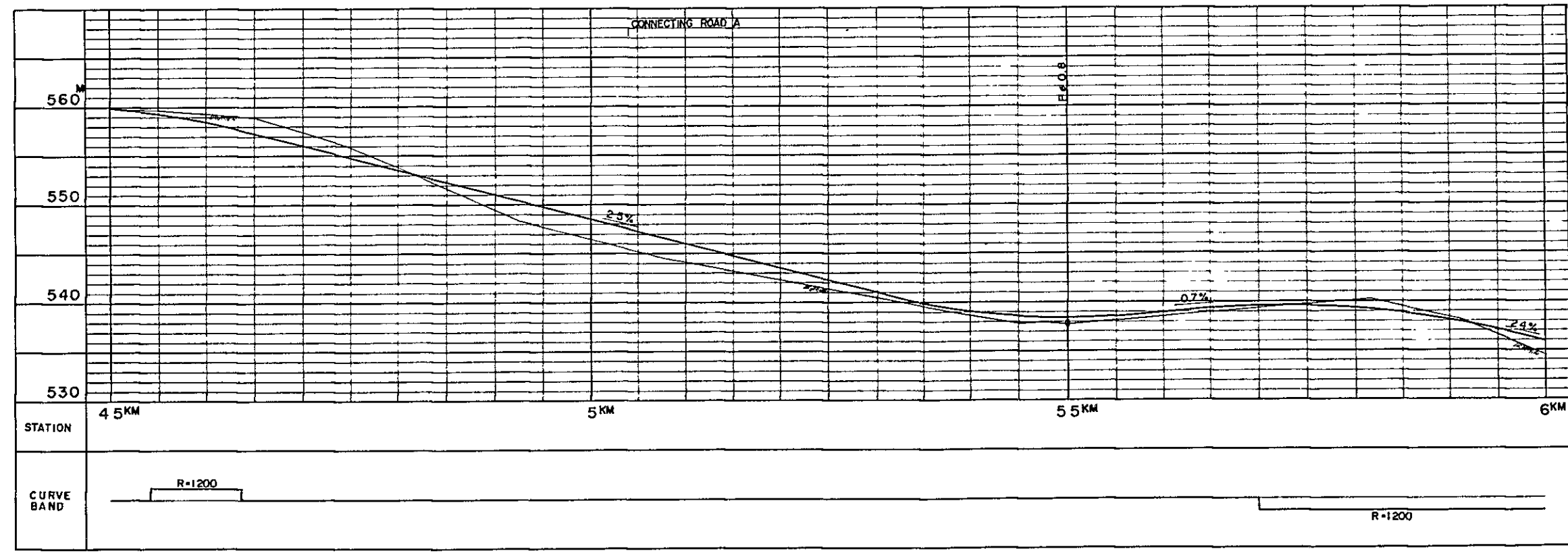
SCALE 1 : 5000

- CENTER LINE OF RECOMMENDED ALIGNMENT
- BOUNDARY OF RIGHT OF WAY
- CROSS ROAD
- CULVERT
- RADIUS

VERTICAL ALIGNMENT

HORIZONTAL SCALE 1 : 5000
VERTICAL SCALE 1 : 500

- +10% GRADIENT OF RECOMMENDED ALIGNMENT
- EXISTING GROUND
- BOX CULVERT
- PIPE CULVERT
- HIGH WATER LEVEL

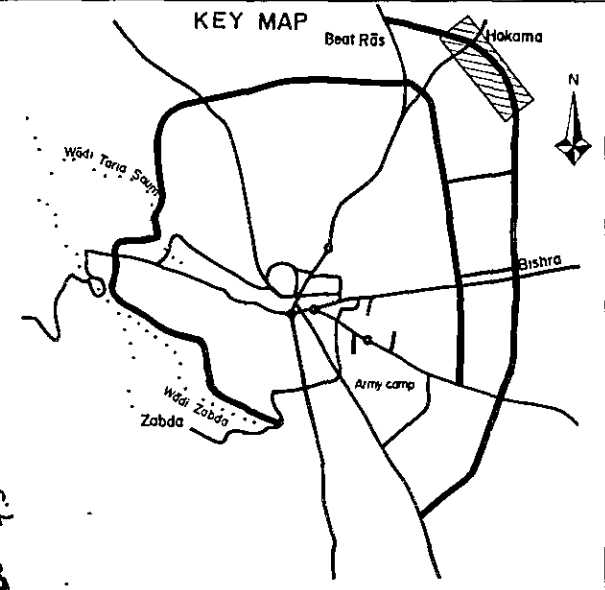
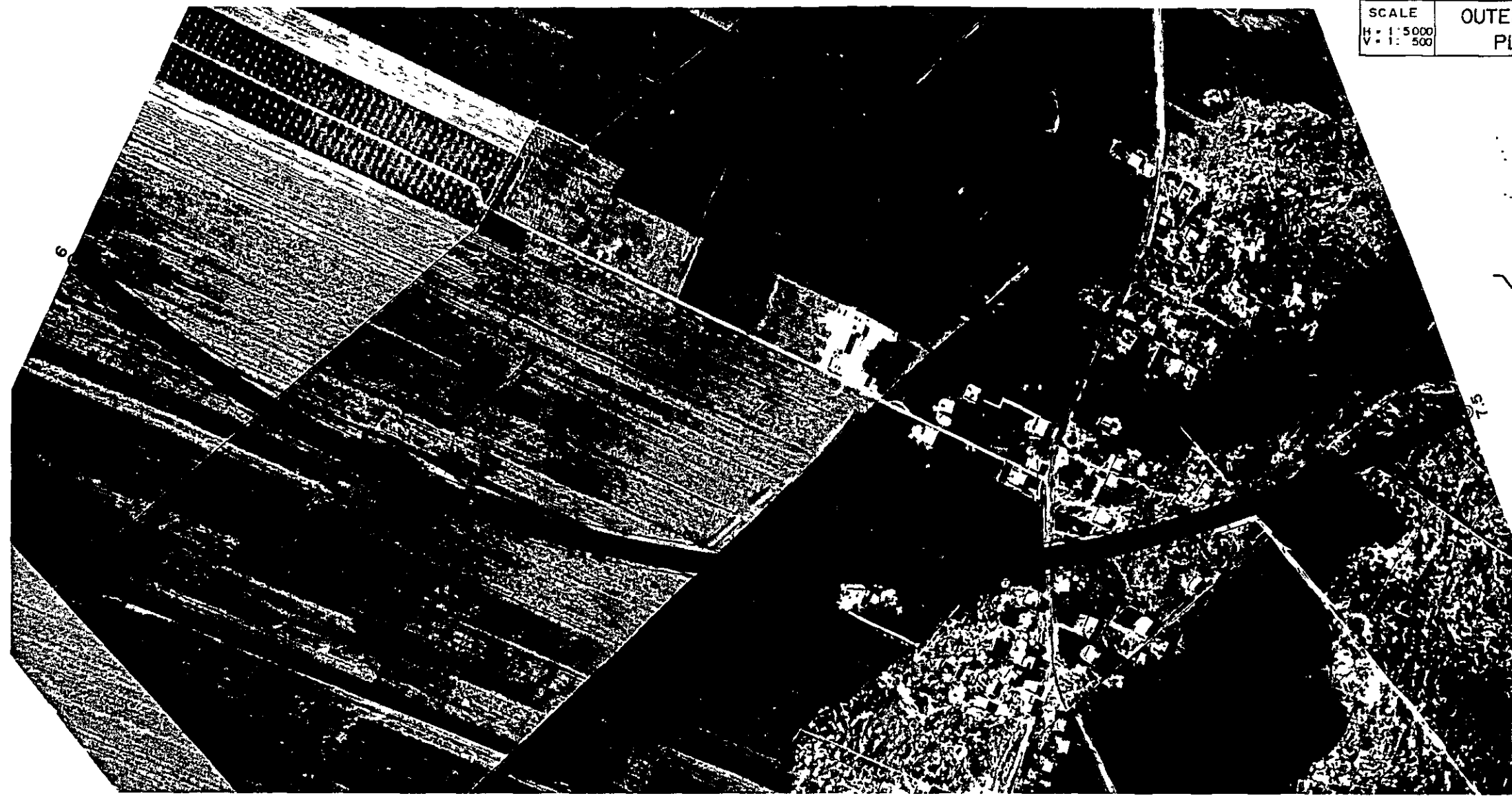


RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
 H: 1:5000
 V: 1:500

OUTER RING ROAD
 PLAN AND PROFILE

DRAWING NO
 15
 18



LEGEND

HORIZONTAL ALIGNMENT

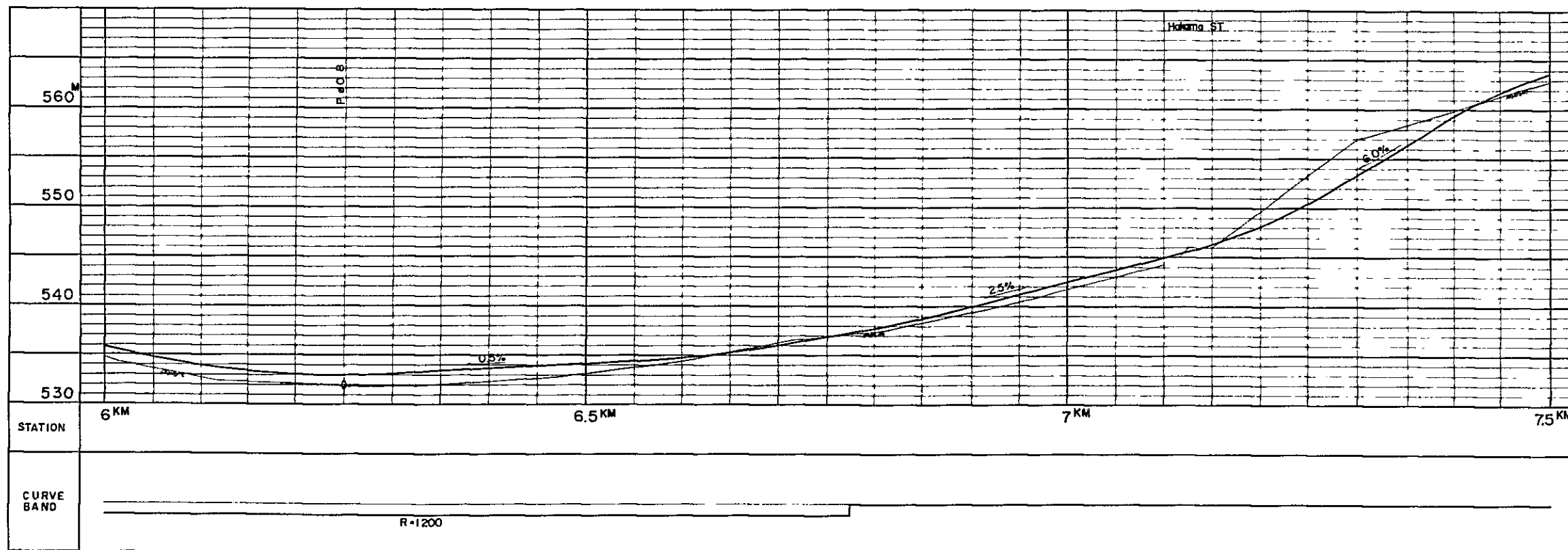
SCALE 1 5000

- CENTER LINE OF RECOMMENDED ALIGNMENT
- BOUNDARY OF RIGHT OF WAY
- CROSS ROAD
- CULVERT
- RADIUS

VERTICAL ALIGNMENT

HORIZONTAL SCALE 1 5000
 VERTICAL SCALE 1 500

- +10% GRADIENT OF RECOMMENDED ALIGNMENT
- EXISTING GROUND
- BOX CULVERT
- PIPE CULVERT
- HIGH WATER LEVEL

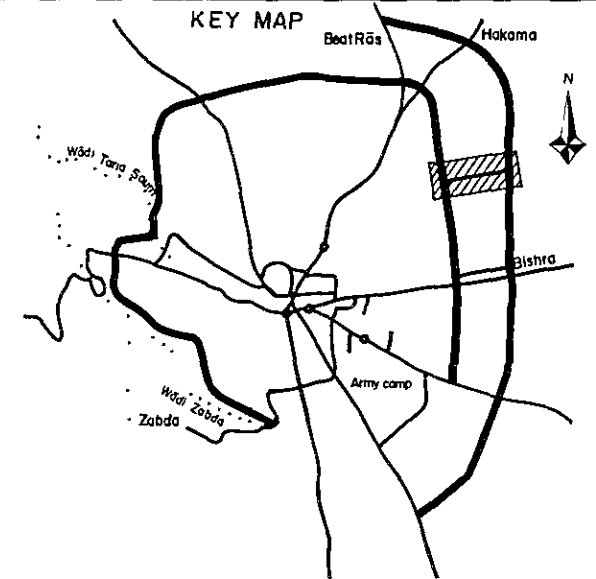
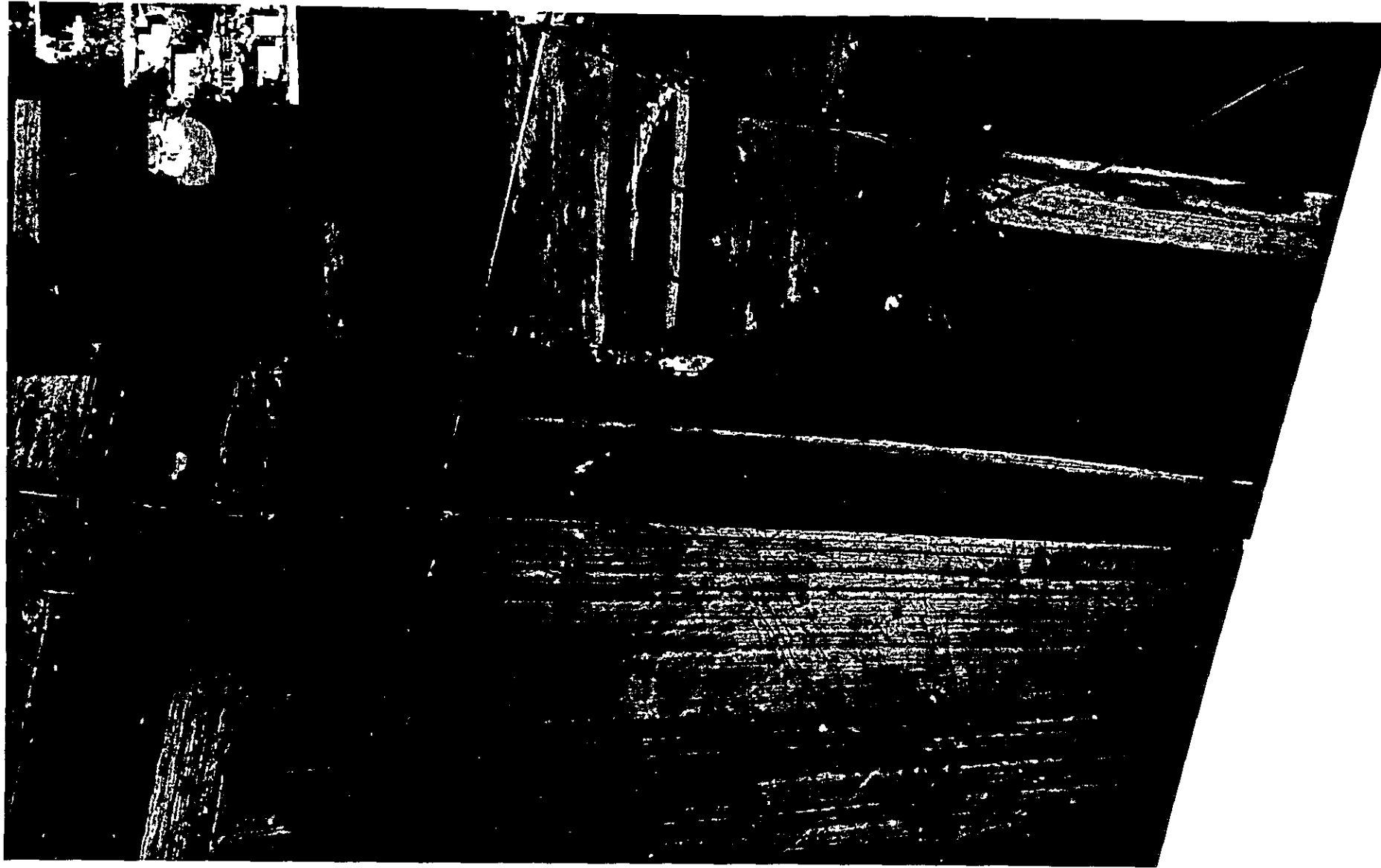


RING ROADS CONSTRUCTION PROJECT IN IRBID CITY

SCALE
H: 1 5000
V: 1 500

CONNECTING ROAD A
PLAN AND PROFILE

DRAWING NO
17 / 18

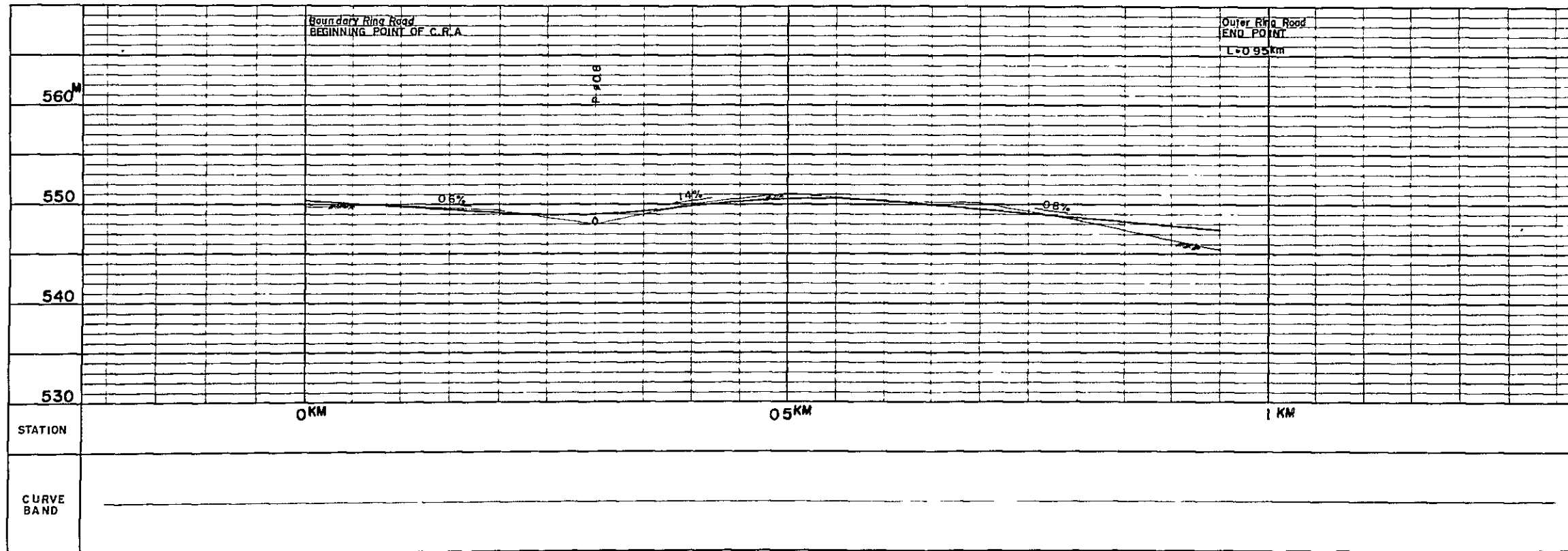


LEGEND

HORIZONTAL ALIGNMENT

SCALE 1 5000

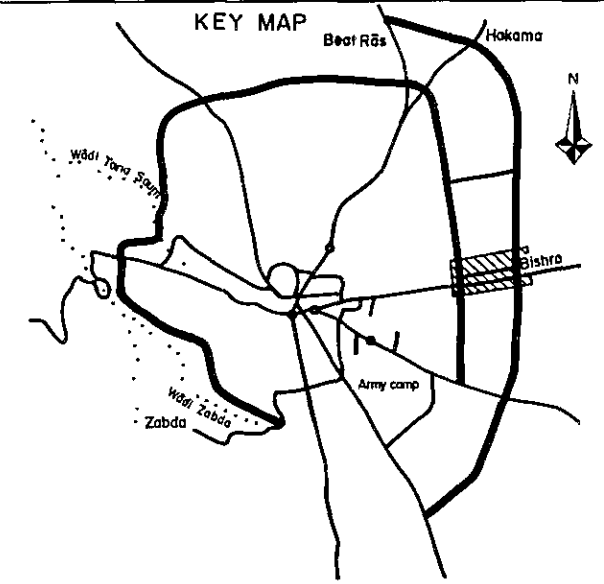
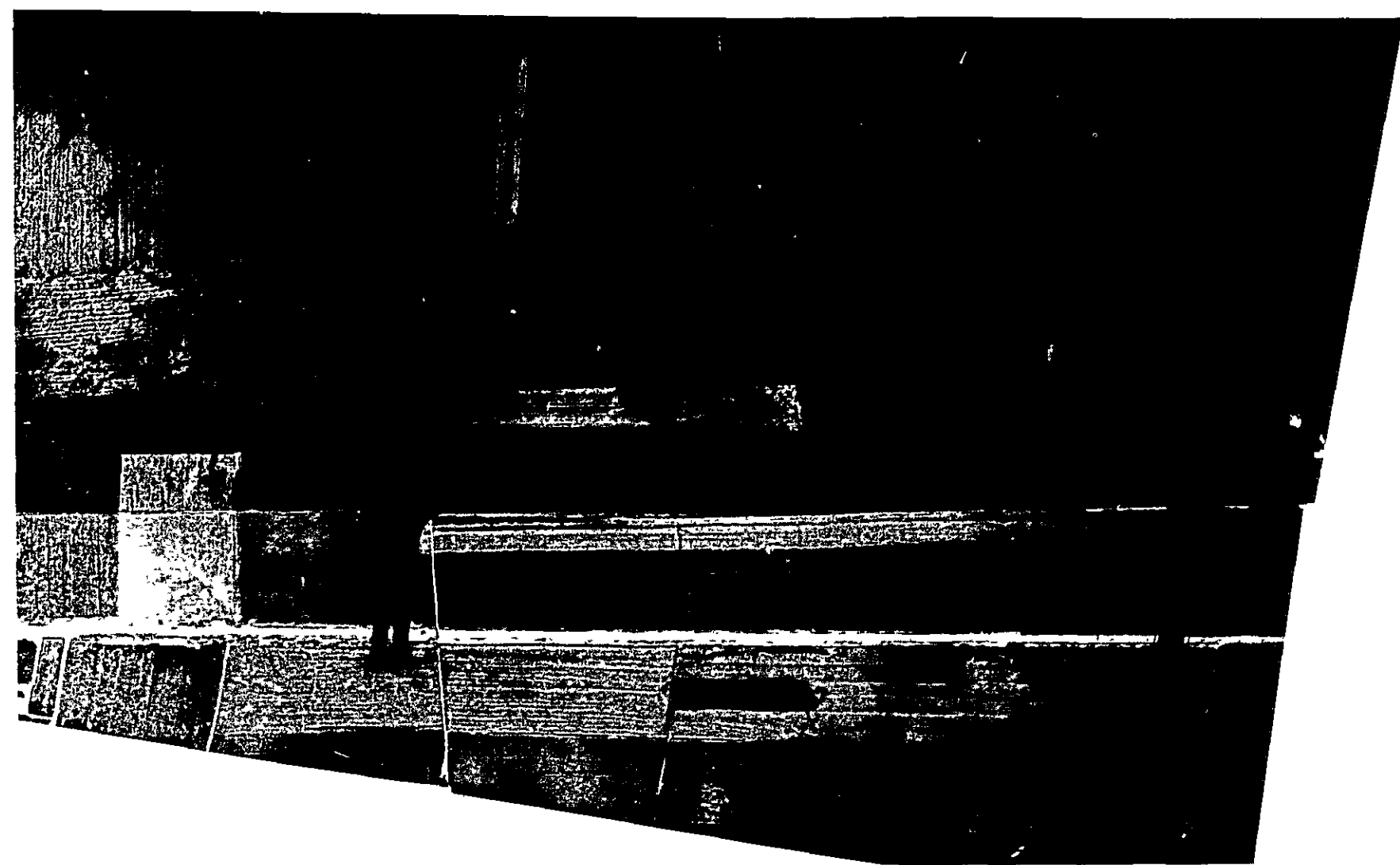
- CENTER LINE OF RECOMMENDED ALIGNMENT
- - - BOUNDARY OF RIGHT OF WAY
- ==== CROSS ROAD
- - - - CULVERT
- R RADIUS



VERTICAL ALIGNMENT

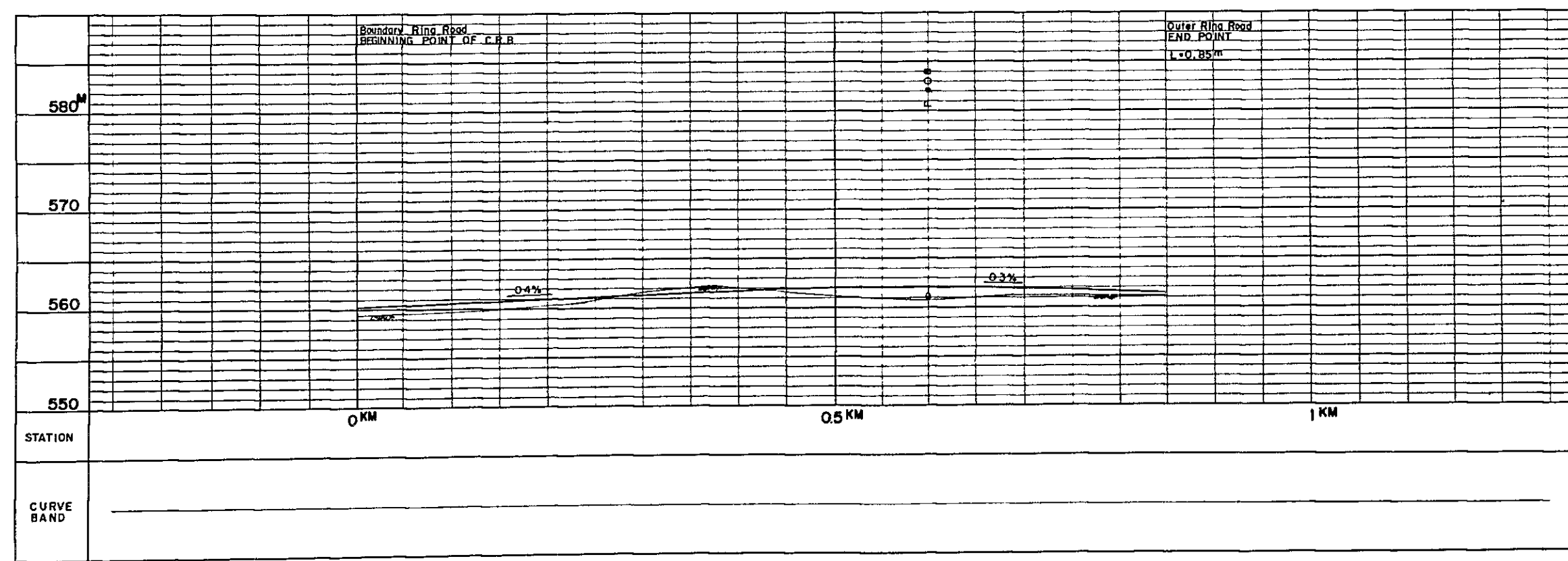
HORIZONTAL SCALE 1 5000
VERTICAL SCALE 1 500

- +10% GRADIENT OF RECOMMENDED ALIGNMENT
- EXISTING GROUND
- ▣ BOX CULVERT
- PIPE CULVERT
- ⊖ HIGH WATER LEVEL

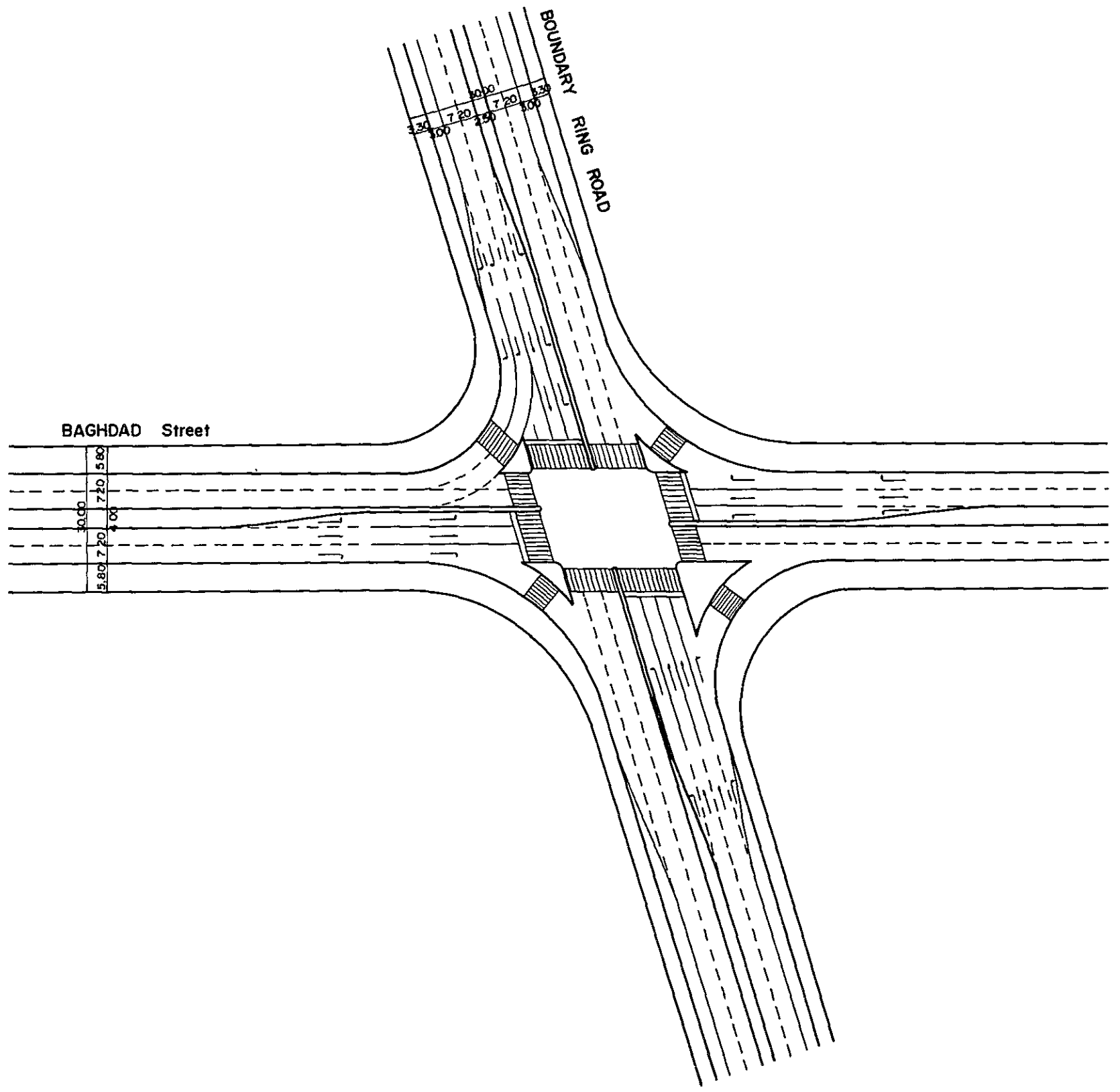
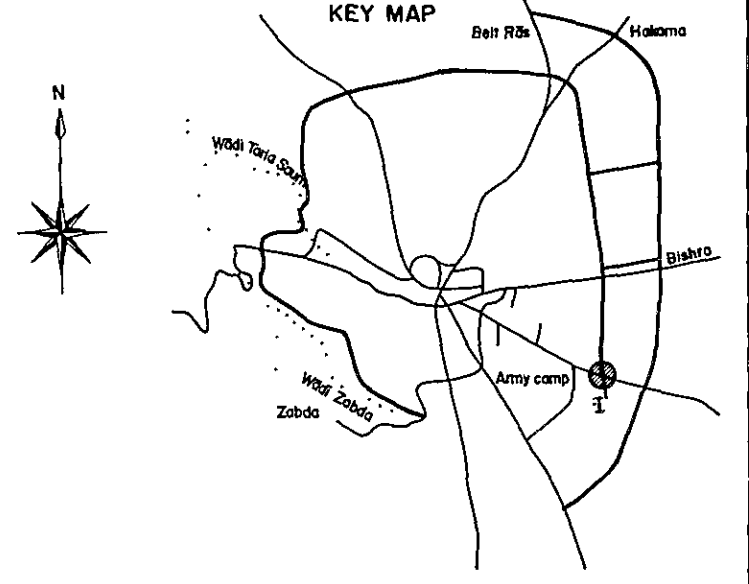


LEGEND

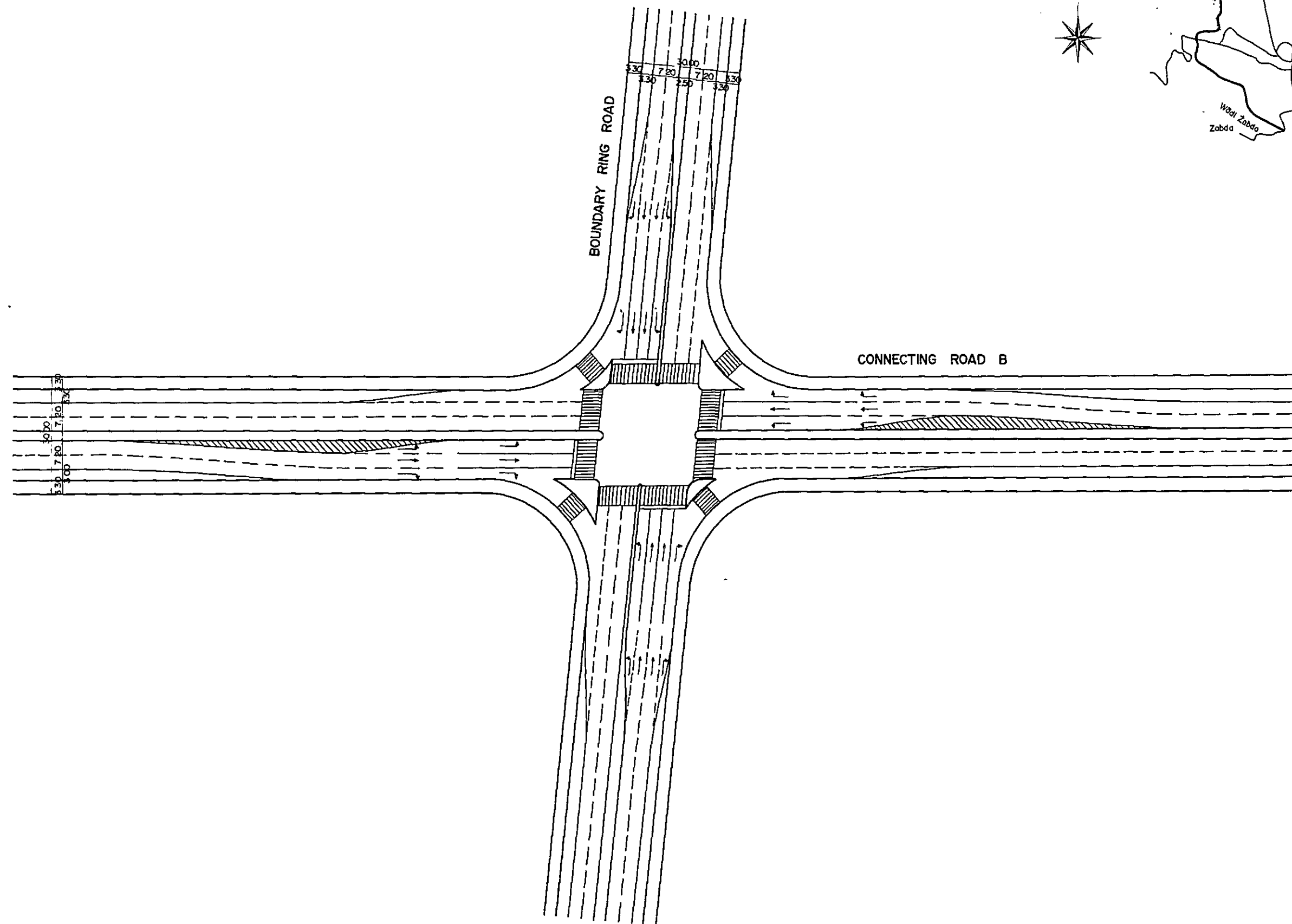
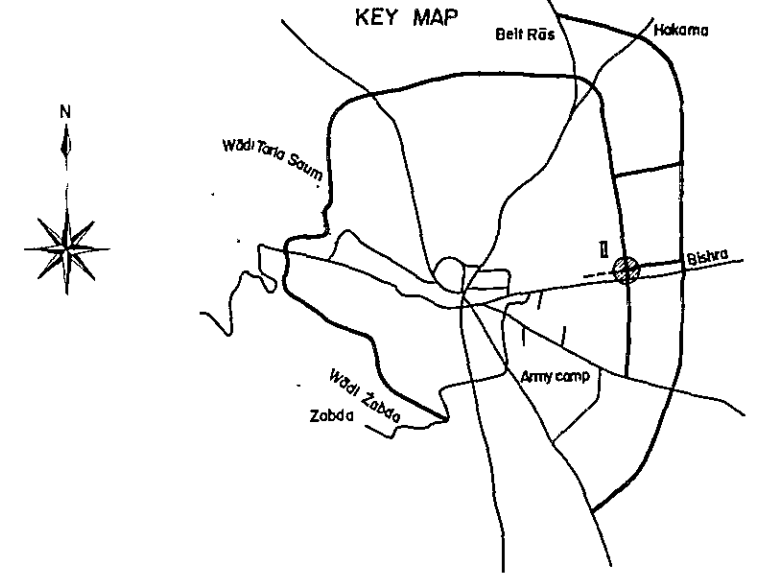
- HORIZONTAL ALIGNMENT
 SCALE 1:5000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - - - - BOUNDARY OF RIGHT OF WAY
 - ==== CROSS ROAD
 - - - - CULVERT
 - R RADIUS

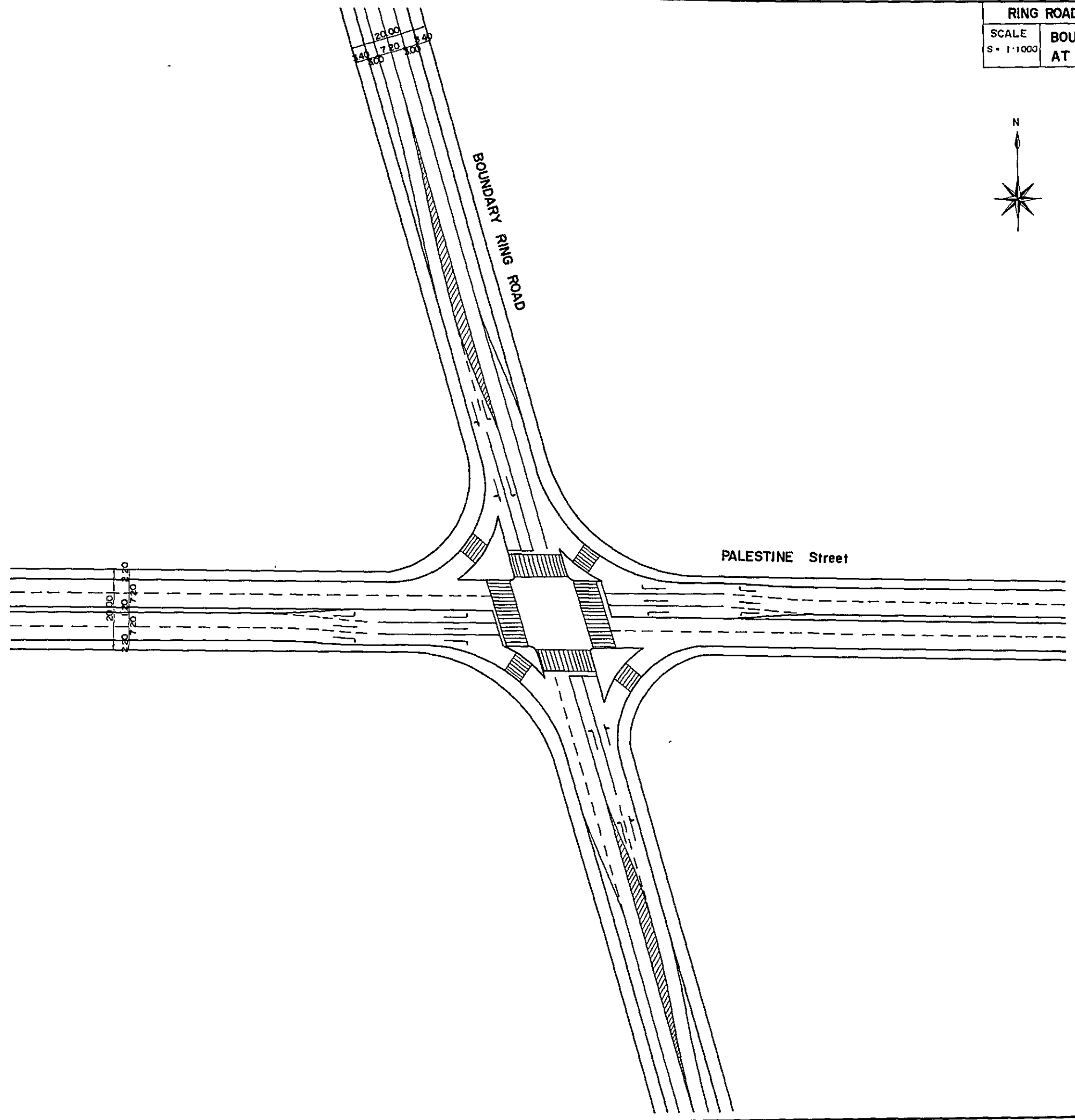
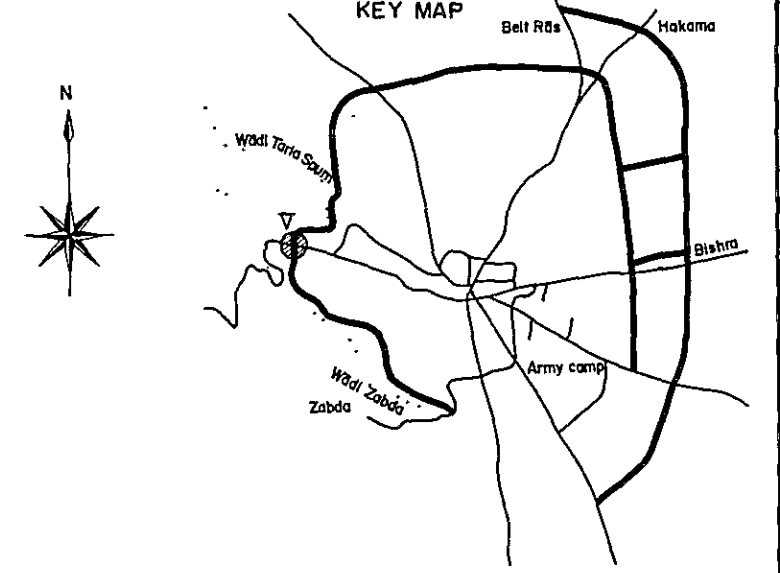


- VERTICAL ALIGNMENT
 HORIZONTAL SCALE 1:5000
 VERTICAL SCALE 1:500
- +10% GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - BOX CULVERT
 - PIPE CULVERT
 - HIGH WATER LEVEL

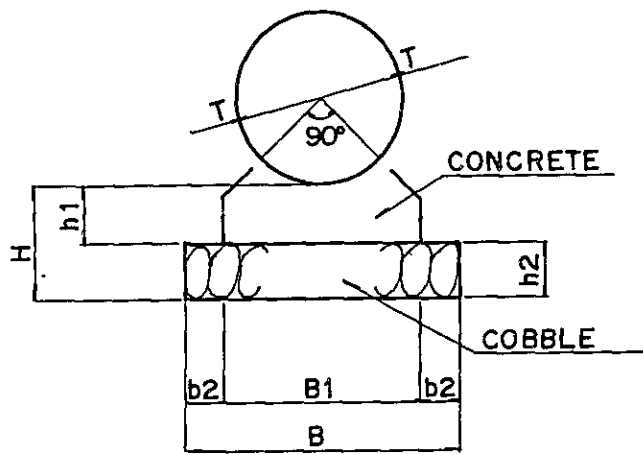


RING ROADS CONSTRUCTION PROJECT IN IRBID CITY		
SCALE S = 1 1000	BOUNDARY RING ROAD AT - GRADE INTERSECTION	DRAWING NO 2 / 3



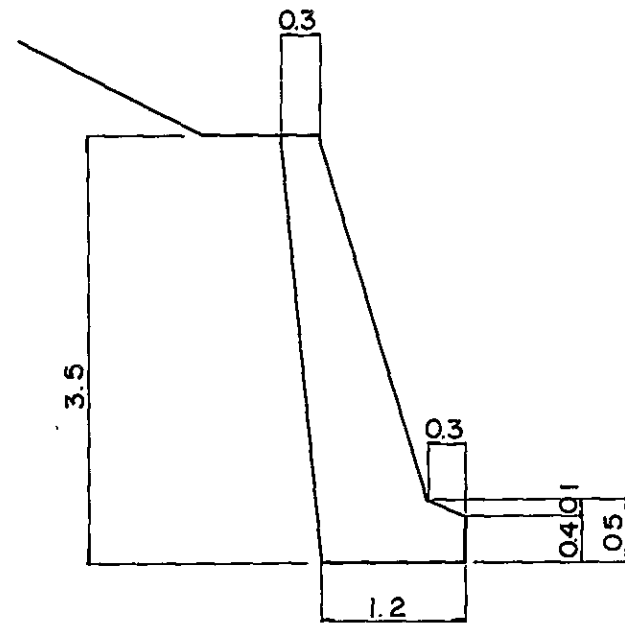


PIPE CULVERT

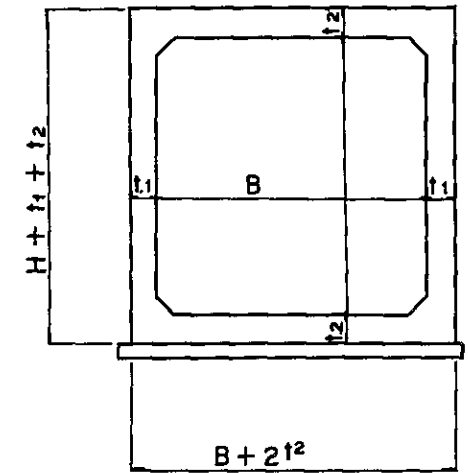
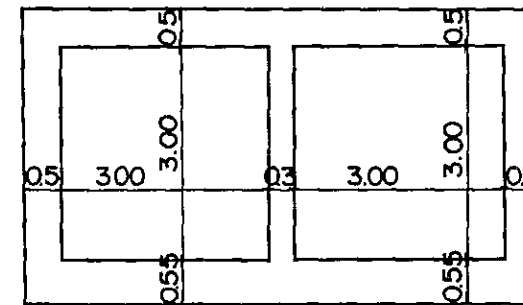


D	T	H	h1	h2	B	D1	D2
400	35	200	100	100	600	500	50
500	42	300	150	150	700	600	50
800	66	350	200	150	1050	950	50
1000	82	350	200	150	1300	1200	50

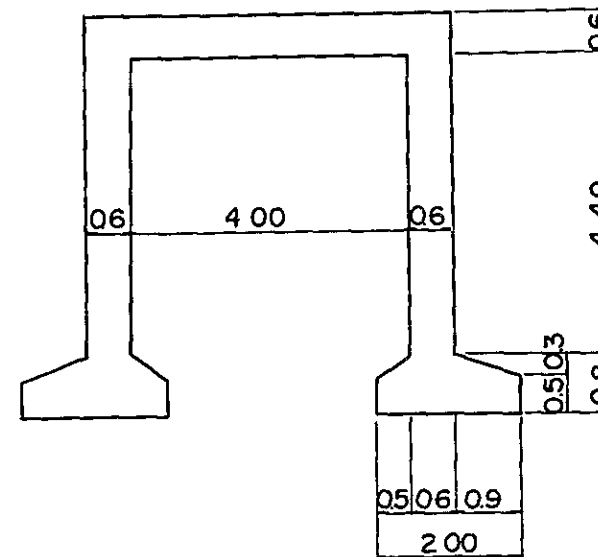
RETAINING WALL
S = 1:60



BOX CULVERT
S = 100
S = 200



PORTAL CULVERT
S = 1:100



	H	t1	B	t2
8.0m x 5.0m	5000	80	8000	90
2.0m x 2.0m	2000	35	2000	40



