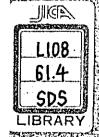
REPUBLIC OF INDONESIA

## FEASIBILITY STUDY OF JAKARTA RING ROAD PROJECT

#### **DRAWINGS**

MARCH, 1978

JAPAN INTERNATIONAL COOPERATION AGENCY



REPUBLIC OF INDONESIA

# FEASIBILITY STUDY OF JAKARTA RING ROAD PROJECT

**DRAWINGS** 

MARCH, 1978

JAPAN INTERNATIONAL COOPERATION AGENCY

受入 '87. 2. 26 <u>L/08</u>	L108	87. 2. 26
金線 08378 61.4 No 08378 5.05	61.4	

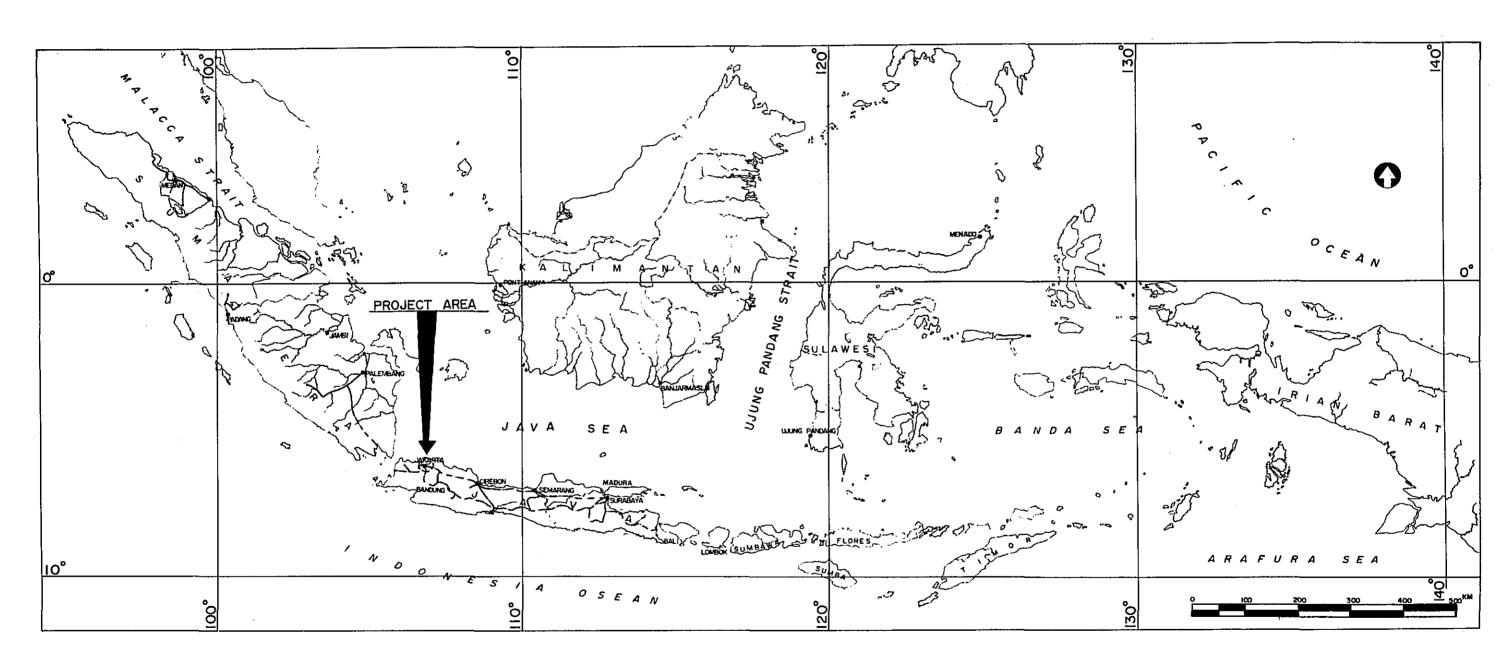
•

.

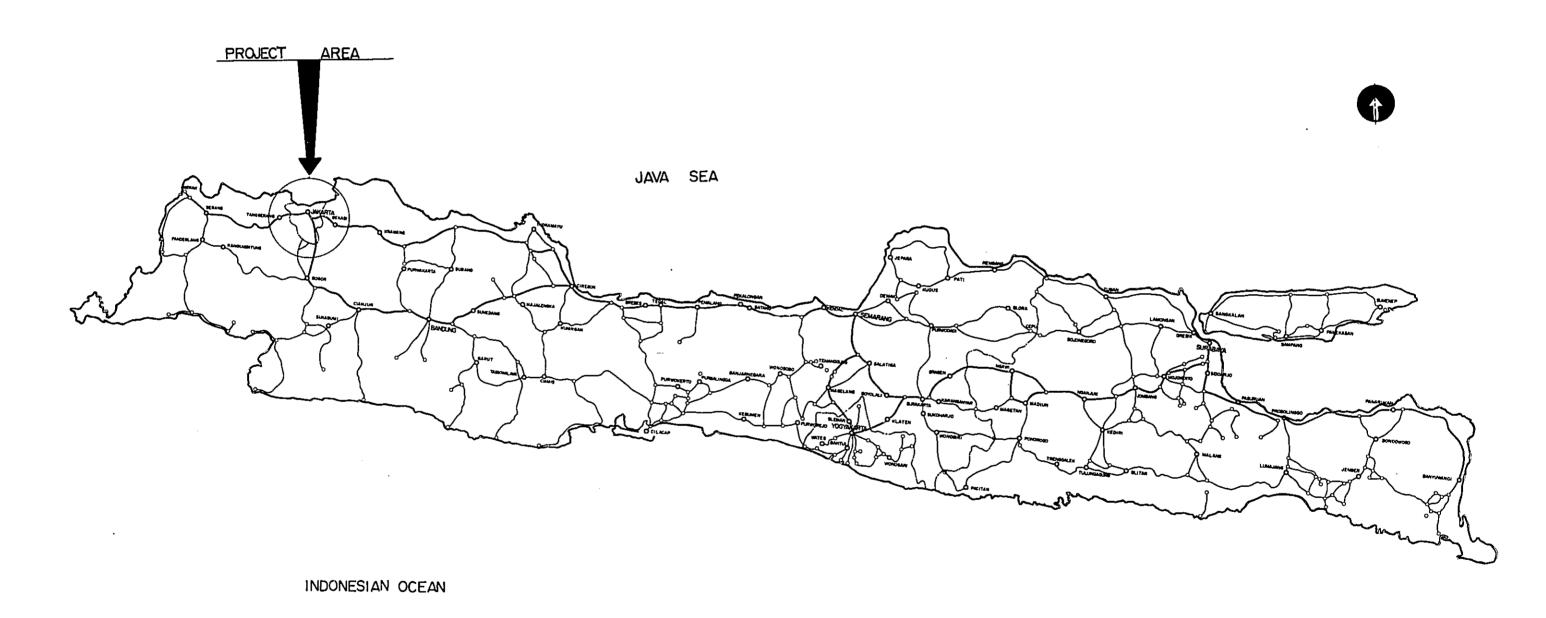
### DRAWING SCHEDULE

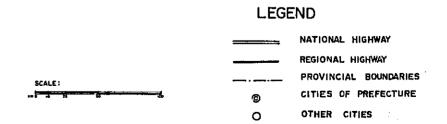
INDEX OF SHEETS	SCALE	TOTAL SHEET
MAP OF INDONESIA	1 : 7.150.000	ı
MAP OF JAVA AND MADURA	1 : 2.400.000	1
MAP OF PROJECT AREA	l : 125.000 l : 70.000	3
TYPICAL CROSS SECTION	1 : 200	3
PLAN AND PROFILE	H=1:10.000 V=1:500	21
INTERCHANGE PLANS	H=I: 5.000 V=I: 500	5
BRIDGE PLANS	1 : 600	5
SUMMARY OF PROJECT	H = 1 : 10.000 V = 1 : 1.000	7
		46

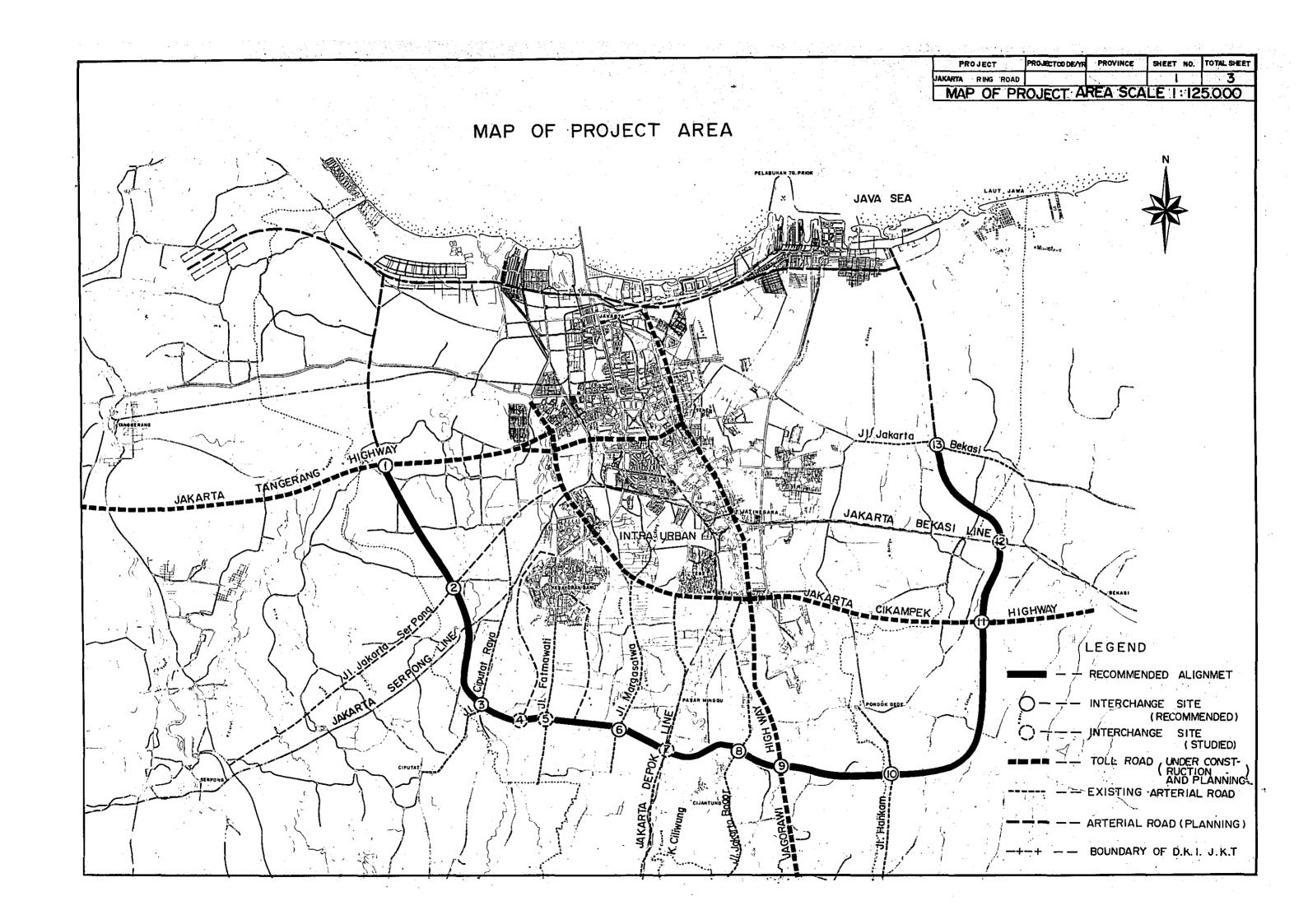
MAP OF INDONESIA

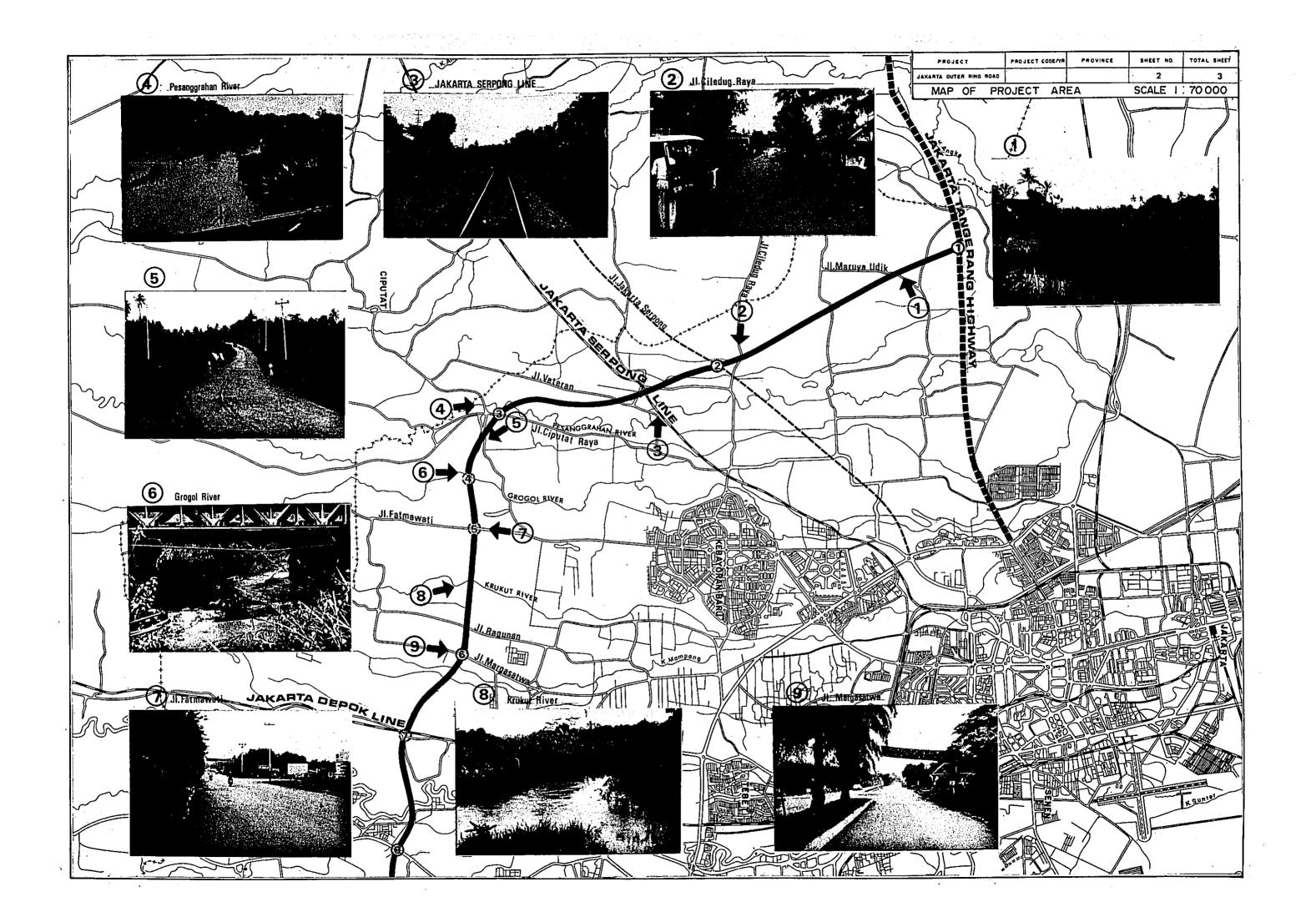


#### MAP OF JAVA AND MADURA

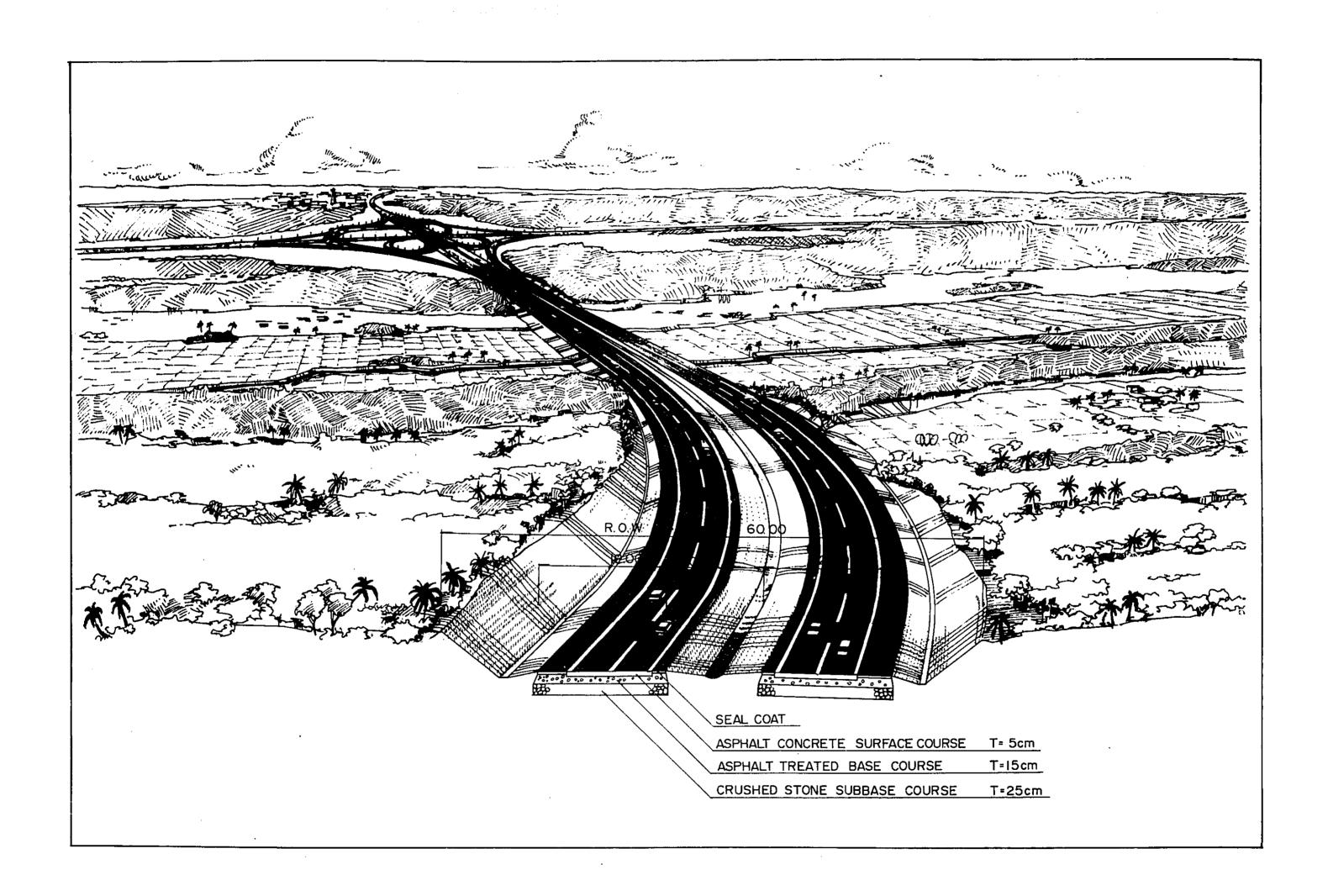










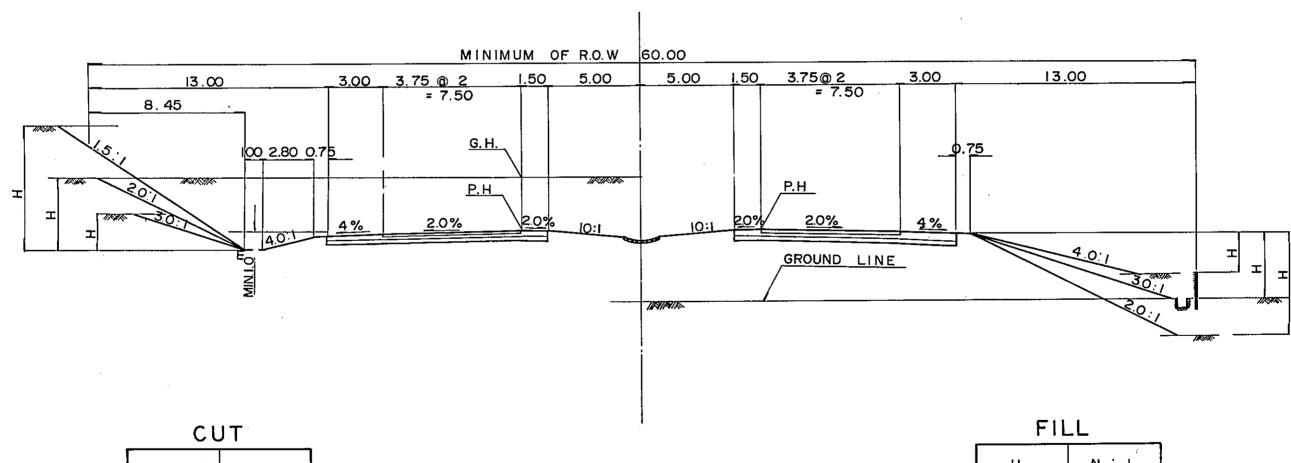


PF	OJECT		PROJECT CODE/YR	PROVINCE	SHEET NO.	TOTAL SHEET
JAKARTA	RING	ROAD			2	3
TVD	IANK		ASS SECT	TON SC	VI E - I	200

## TYPICAL CROSS SECTION OF THROUGHWAY T= 120 km/h

CUT

FILL

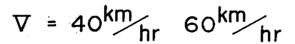


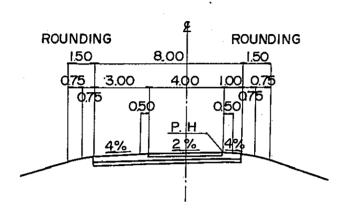
H (m)	N : I
0 ≤ H < 2.5	3:1
2.5≨H < 4.0	2:1
4.0 ≦ H	1.5 : 1

Н	N : 1
· 0 ≤ H < 25	4:1
25 ≦ H < 4	3:1
4 ≤ H	2:1

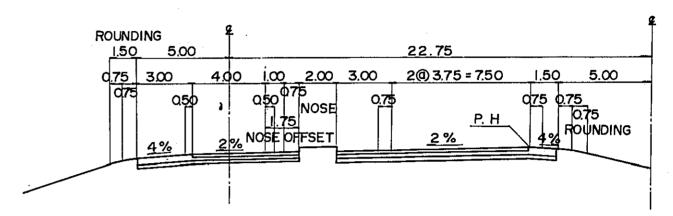
#### TYPICAL CROSS SECTION OF INTERCHANGE

PROJECT	PROJECTCODE/YR	PROVINCE	SHEET NO.	TOTAL SHEET
JAKARTA RING ROAD			3	3
TYPICAL CR	OSS SECT	TION S	CALE I :	200

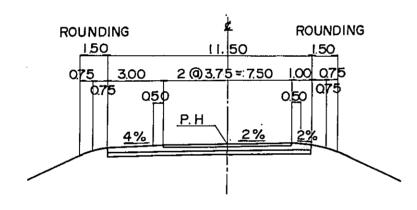




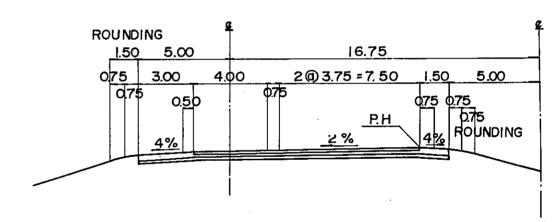
I - LANE ONE WAY



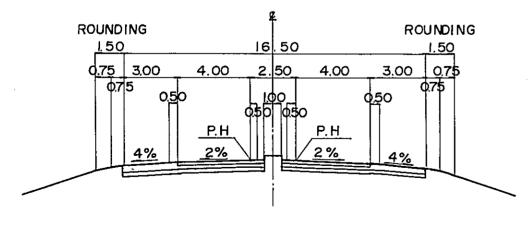
NOSE SECTION OF DECELERATION LANE



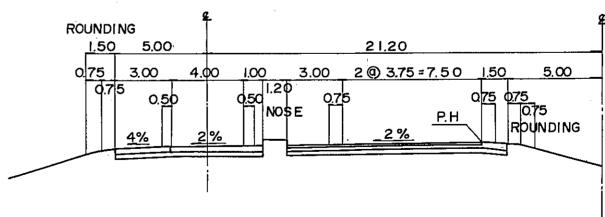
2 - LANE ONE WAY



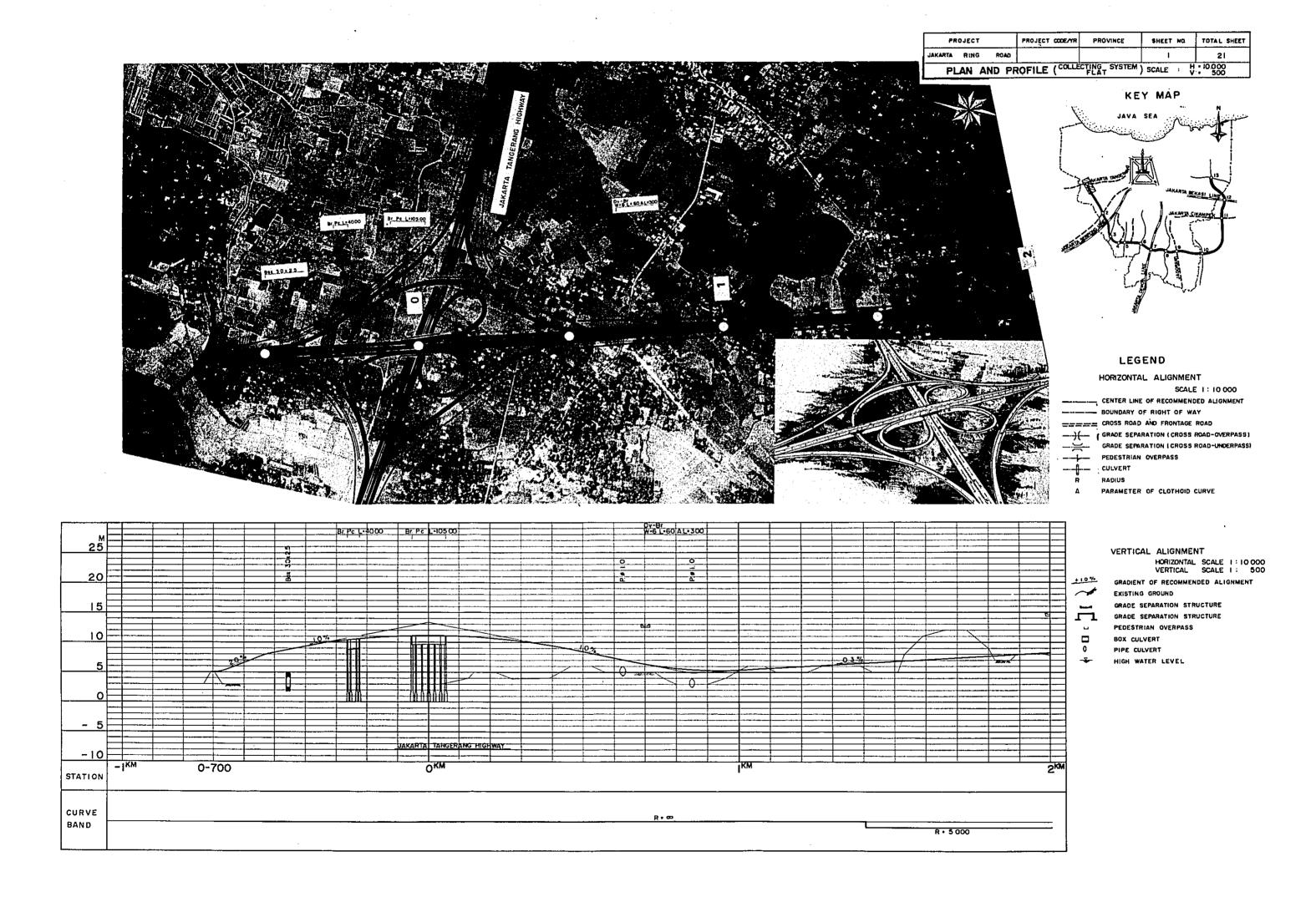
SECTION OF END FOR TAPER



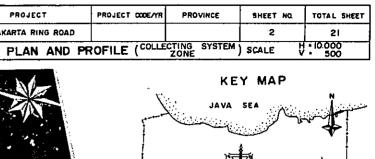
2 - LANE TWO WAY



NOSE SECTION OF ACCELERATION LANE







# JAVA SEA ARAFTA BENASI LINE O

#### LEGEND

#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000

- CENTER LINE OF RECOMMENDED ALIGNMENT - BOUNDARY OF RIGHT OF WAY

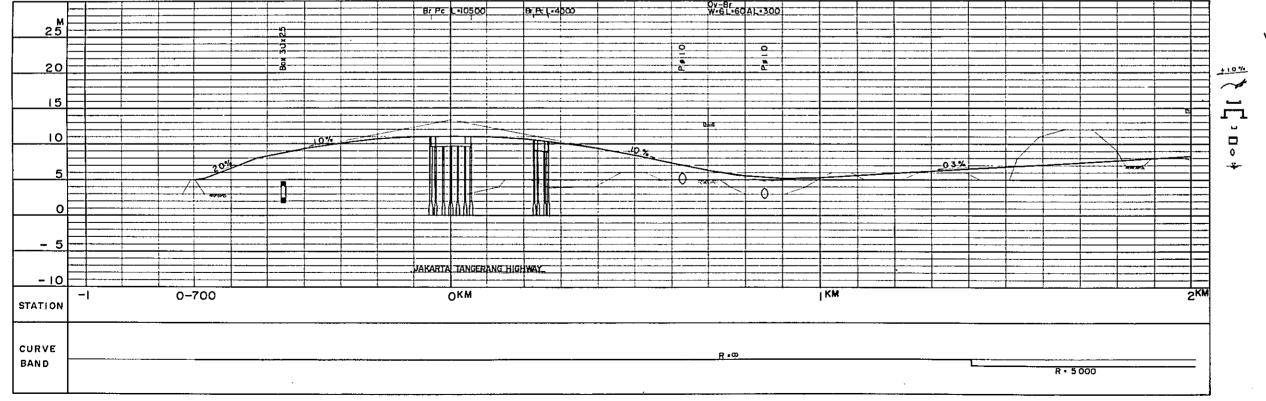
GRADE SEPARATION (CROSS ROAD-UNDERPASS)

PEDESTRIAN OVERPASS

--- CULVERT

RADIUS

A PARAMETER OF CLOTHOID CURVE



VERTICAL ALIGNMENT

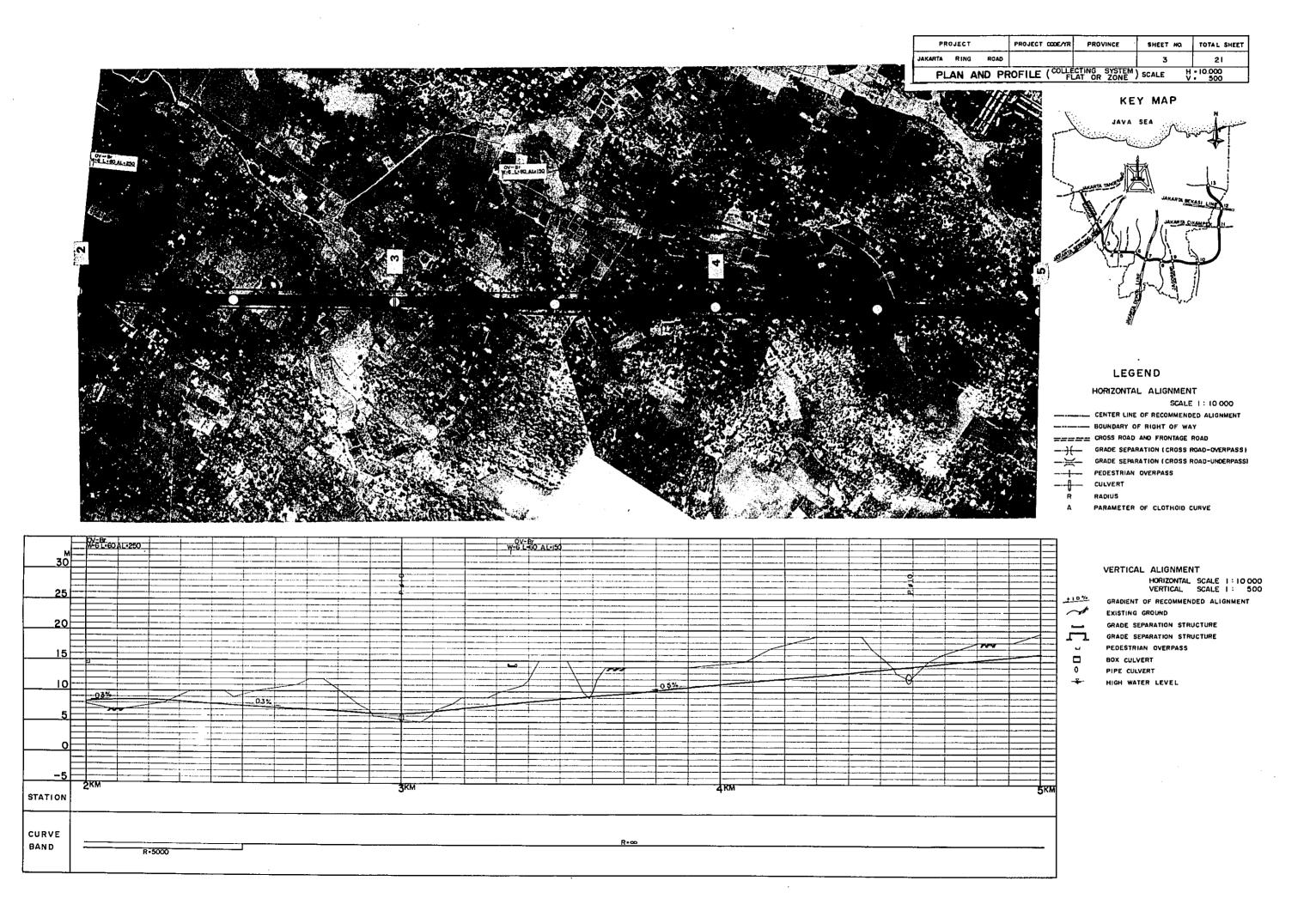
HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500

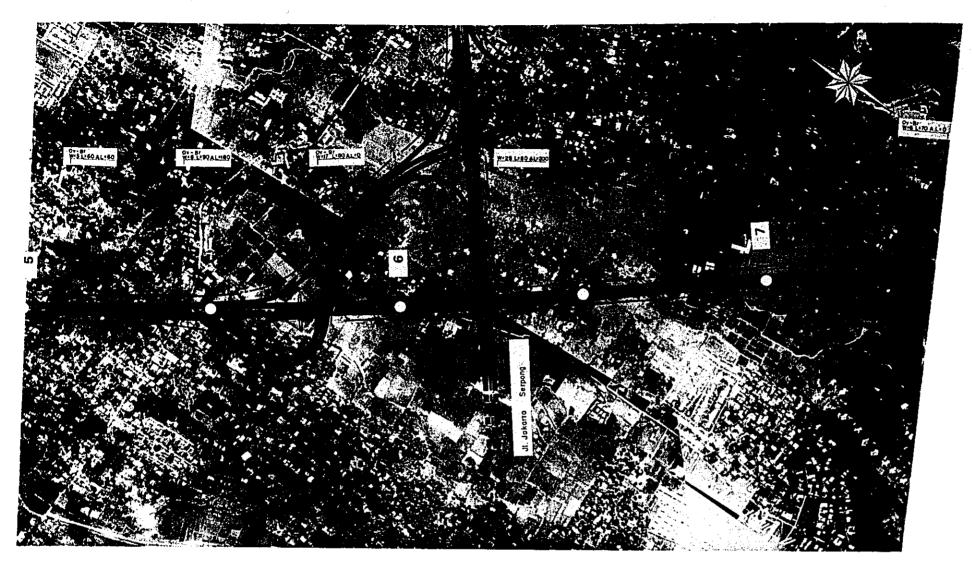
GRADIENT OF RECOMMENDED ALIGNMENT EXISTING GROUND

GRADE SEPARATION STRUCTURE GRADE SEPARATION STRUCTURE

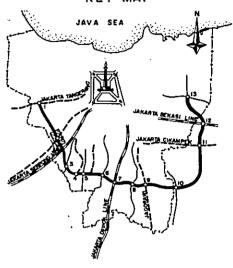
PEDESTRIAN OVERPASS BOX CULVERT

PIPE CULVERT HIGH WATER LEVEL





. PROJECT	PROJECT CODE/YR	PROVINCE	SHEET NO.	TOTAL SHEET
JAKARTA RING ROAD			4	-21
PLAN AND PR	OFILE ( <sup>col</sup> 냕	CTING SYSTEM	SCALE : H	• 10.000 • 500



#### LEGEND

#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000

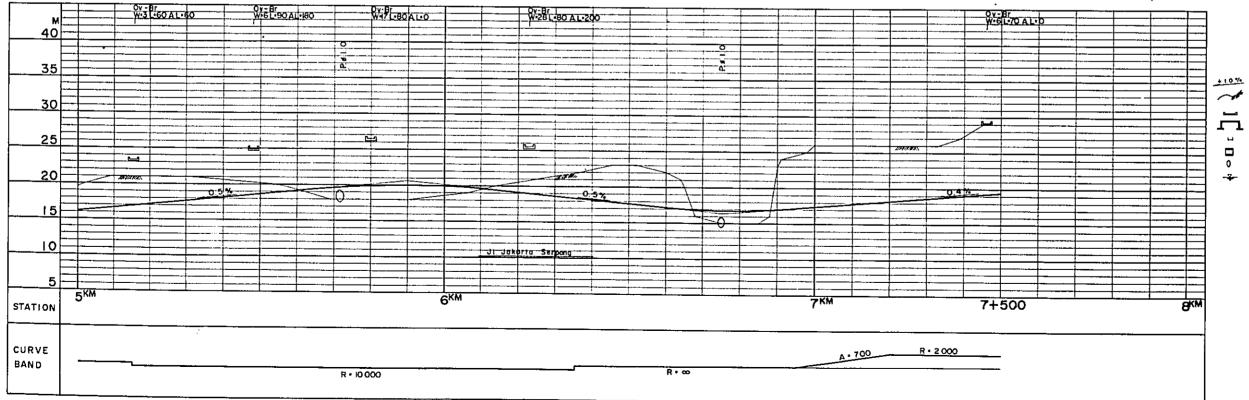
\_\_\_\_\_ CENTER LINE OF RECOMMENDED ALIGNMENT

BOUNDARY OF RIGHT OF WAY

GRADE SEPARATION (CROSS ROAD-OVERPASS)

RADIUS

PARAMETER OF CLOTHOID CURVE



#### VERTICAL ALIGNMENT

HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500

GRADIENT OF RECOMMENDED ALIGNMENT

EXISTING GROUND

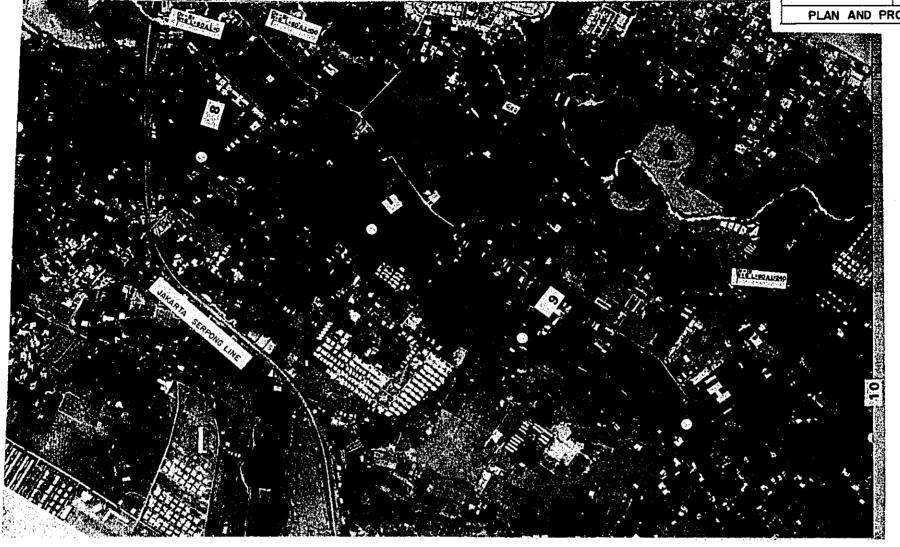
GRADE SEPARATION STRUCTURE
GRADE SEPARATION STRUCTURE

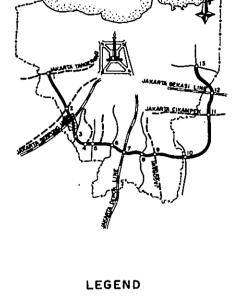
PEDESTRIAN OVERPASS

BOX CULVERT

PIPE CULVERT







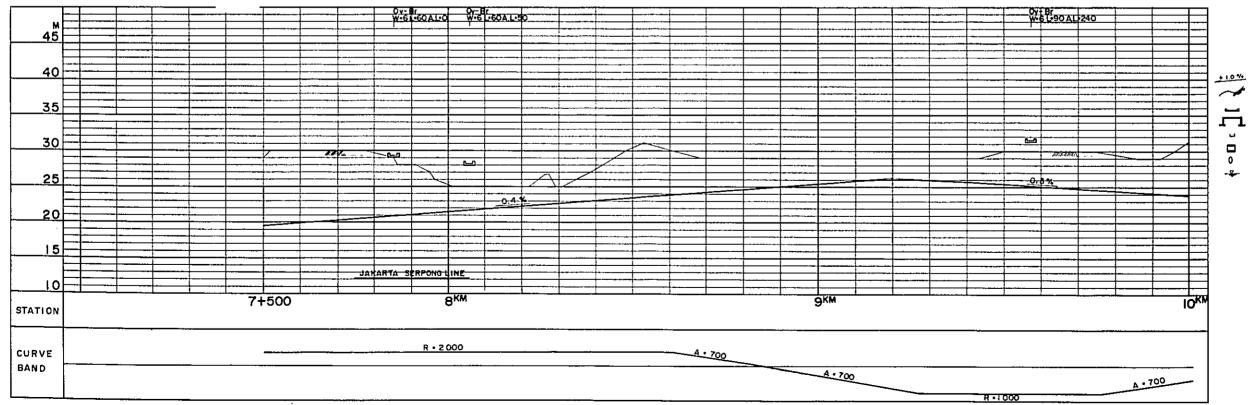
#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000 CENTER LINE OF RECOMMENDED ALIGNMENT - BOUNDARY OF RIGHT OF WAY ===== CROSS ROAD AND FRONTAGE ROAD GRADE SEPARATION (CROSS ROAD-OVERPASS) GRADE SEPARATION (CROSS ROAD-UNDERPASS)

PEDESTRIAN OVERPASS CULVERT

RADIUS

PARAMETER OF CLOTHOID CURVE

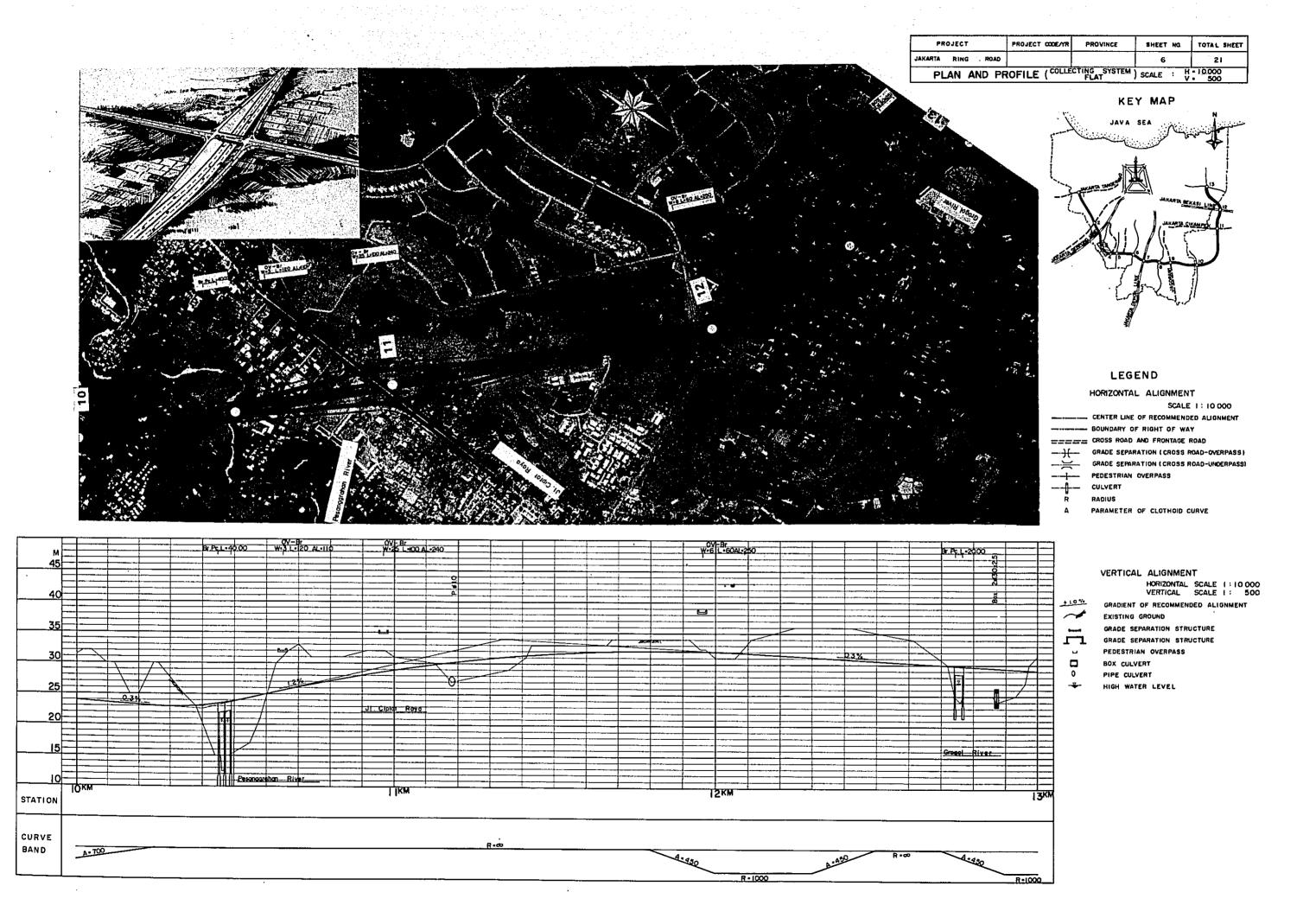


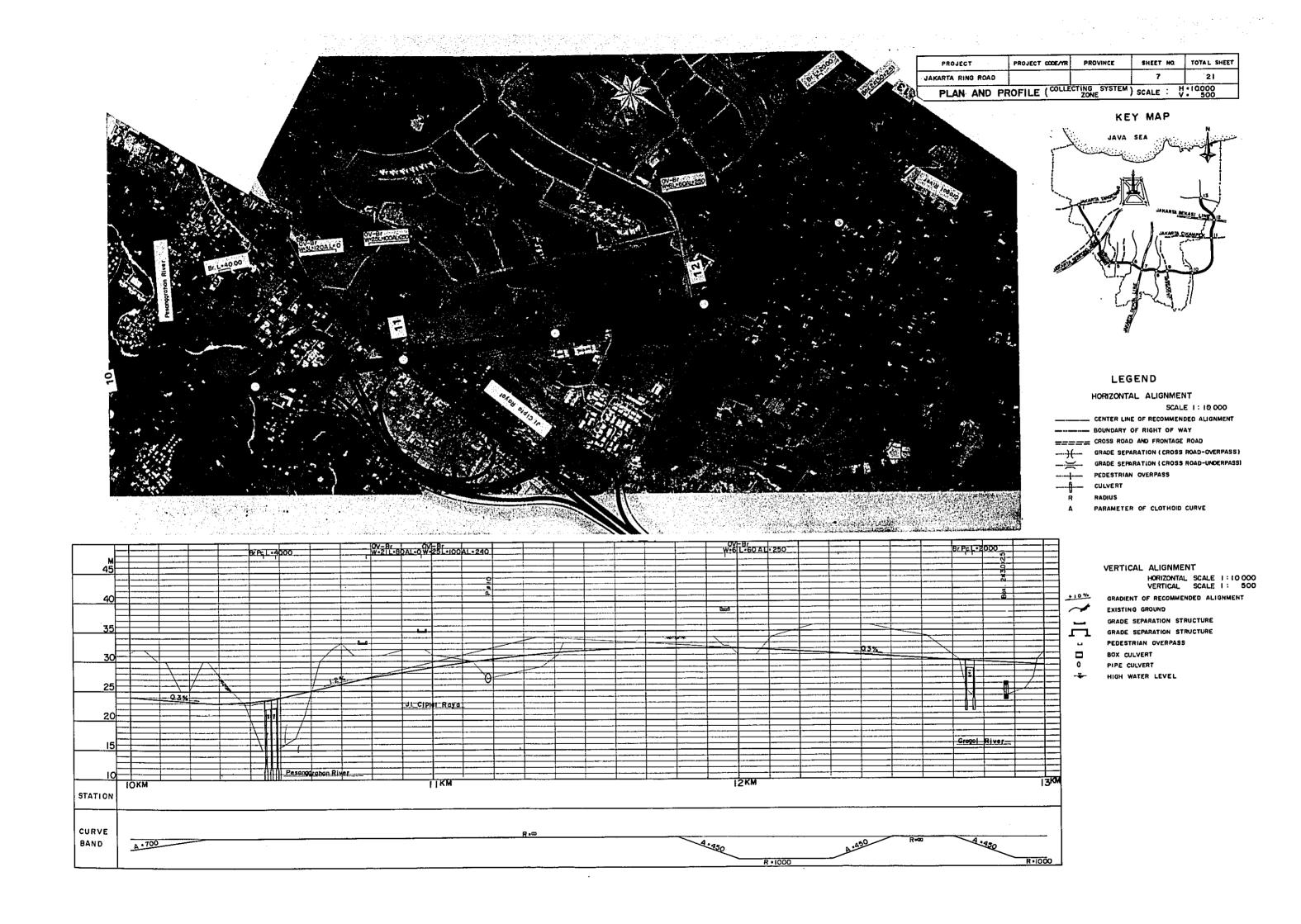
#### VERTICAL ALIGNMENT

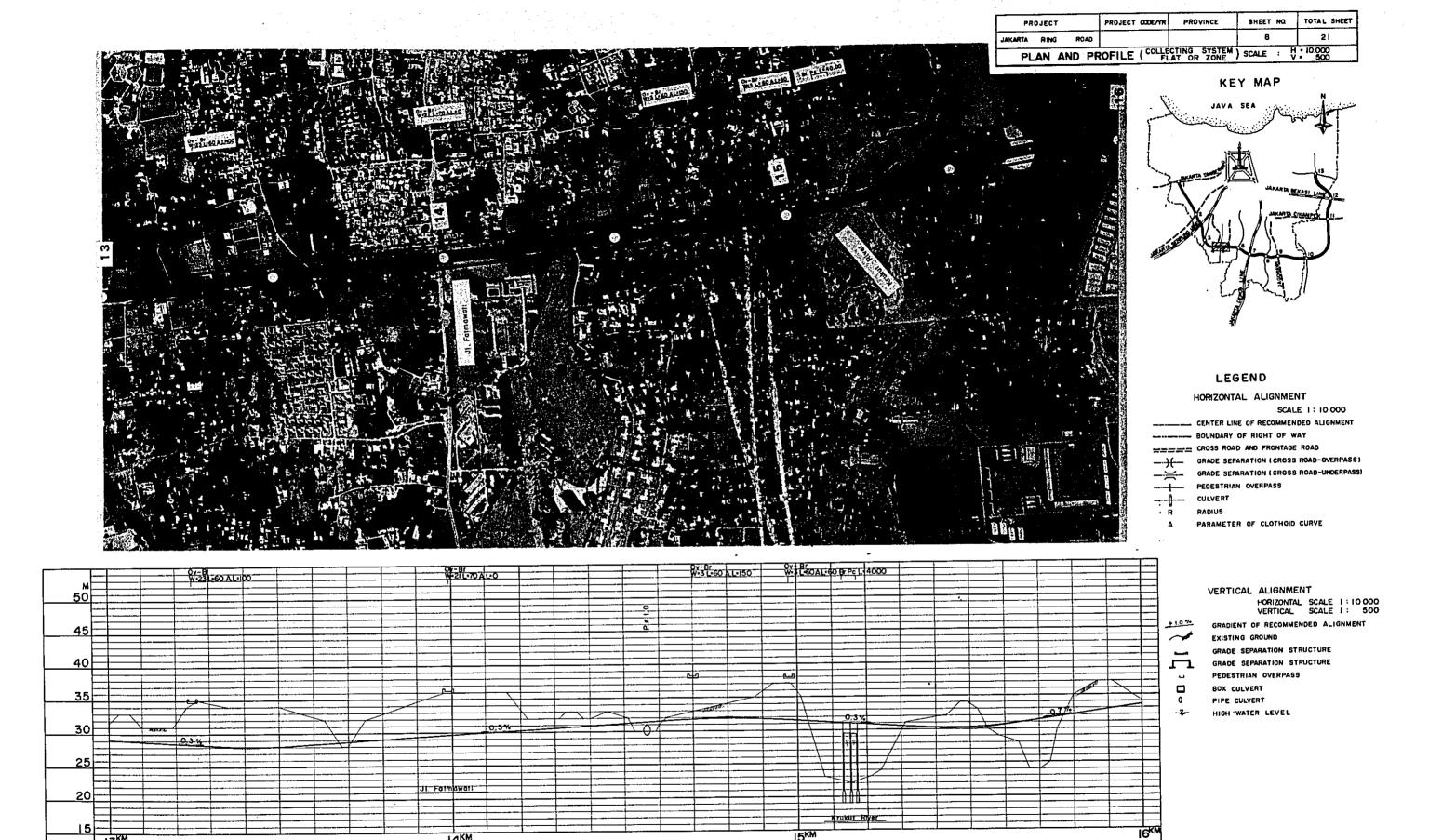
HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500 GRADIENT OF RECOMMENDED ALIGNMENT

EXISTING GROUND GRADE SEPARATION STRUCTURE GRADE SEPARATION STRUCTURE PEDESTRIAN OVERPASS

BOX CULVERT PIPE CULVERT







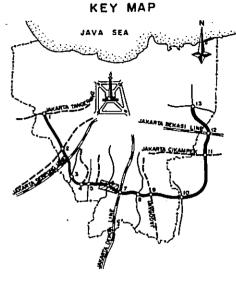
R • 2 000

STATION

CURVE BAND



PROJECT	PROJECT CODEATR	PROVINCE	SHEET NO.	TOTAL SHEET
JAKARTA RING ROAD			9	21
PLAN AND PR	OFILE (COLLE	CTING SYSTEM ) AT OR ZONE )	SCALE : H	• 10 000 500
		45	MAP	



#### LEGEND

#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000

CENTER LINE OF RECOMMENDED ALIGNMENT
BOUNDARY OF RIGHT OF WAY

CROSS ROAD AND FRONTAGE ROAD

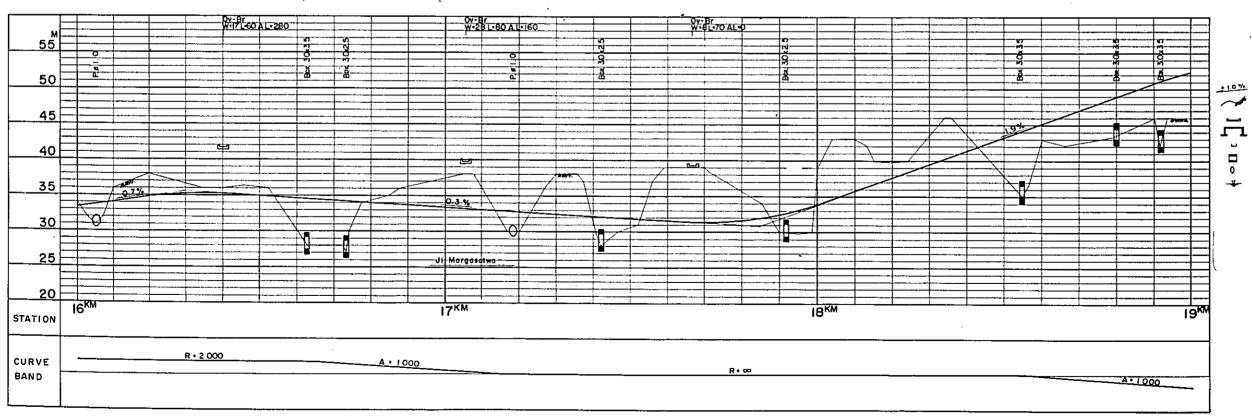
GRADE SEPARATION (CROSS ROAD-OVERPASS)

PEDESTRIAN OVERPASS

CULVERT

R RADIUS

A PARAMETER OF CLOTHOID CURVE



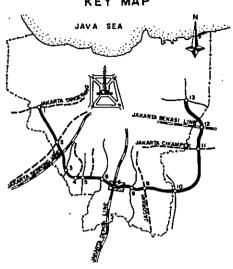
#### VERTICAL ALIGNMENT

HORIZONTAL SCALE 1:10 000
VERTICAL SCALE 1: 500
GRADIENT OF RECOMMENDED ALIGNMENT
EXISTING GROUND
GRADE SEPARATION STRUCTURE
GRADE SEPARATION STRUCTURE
PEDESTRIAN OVERPASS

BOX CULVERT PIPE CULVERT HIGH WATER LEVEL



PROJECT	PROJECT CODE/YR	PROVINCE	SHEET NO.	TOTAL SHEET
JAKARTA RING ROAD			10	21
· · PLAN AND PR	OFILE (COLLEC	TING SYSTEM )	SCALE : H	• 10.000 • 500



#### LEGEND

#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000

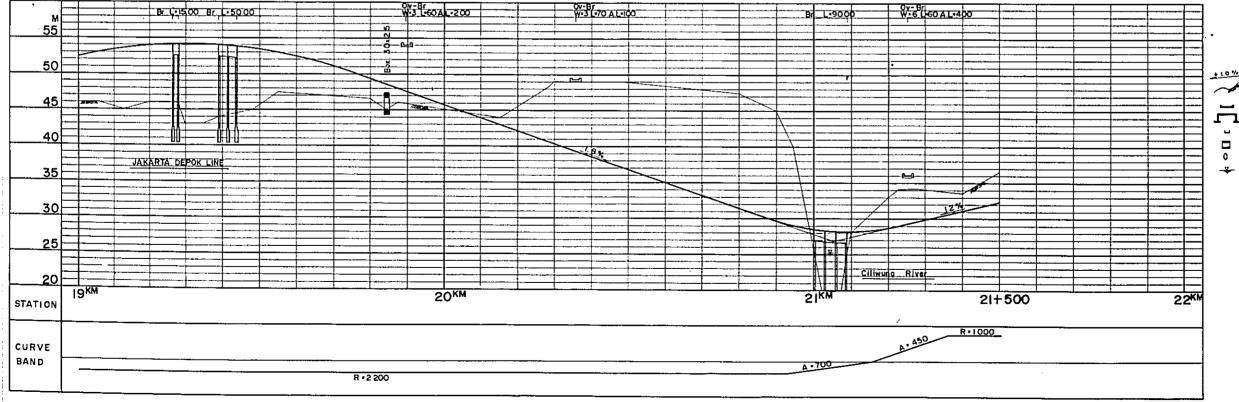
CENTER LINE OF RECOMMENDED ALIGNMENT - BOUNDARY OF RIGHT OF WAY ===== CROSS ROAD 'AND FRONTAGE ROAD 

GRADE SEPARATION (CROSS ROAD-UNDERPASSI PEDESTRIAN OVERPASS

.\_\_ CULVERT

RADIUS

PARAMETER OF CLOTHOID CURVE - Д



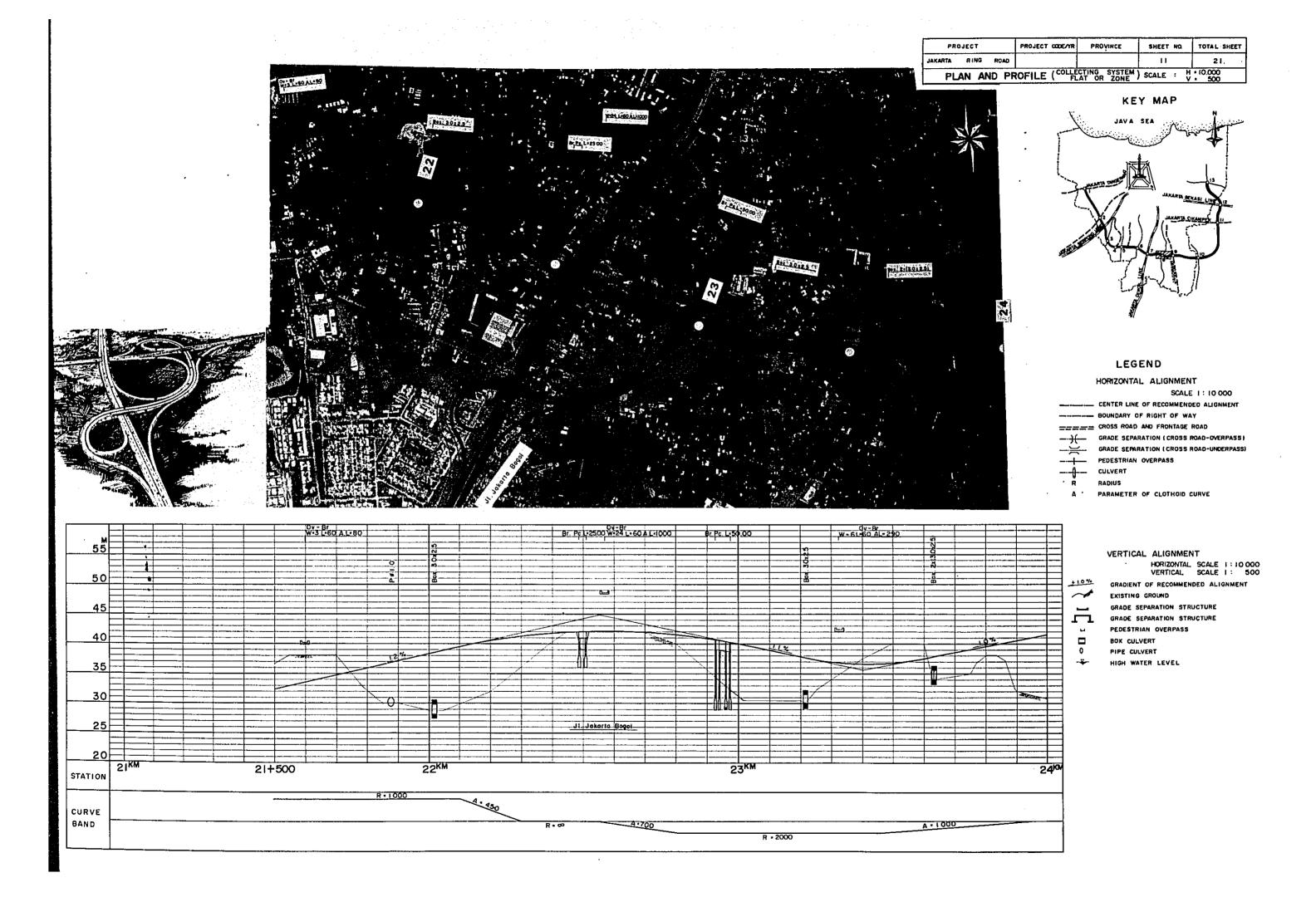
#### VERTICAL ALIGNMENT

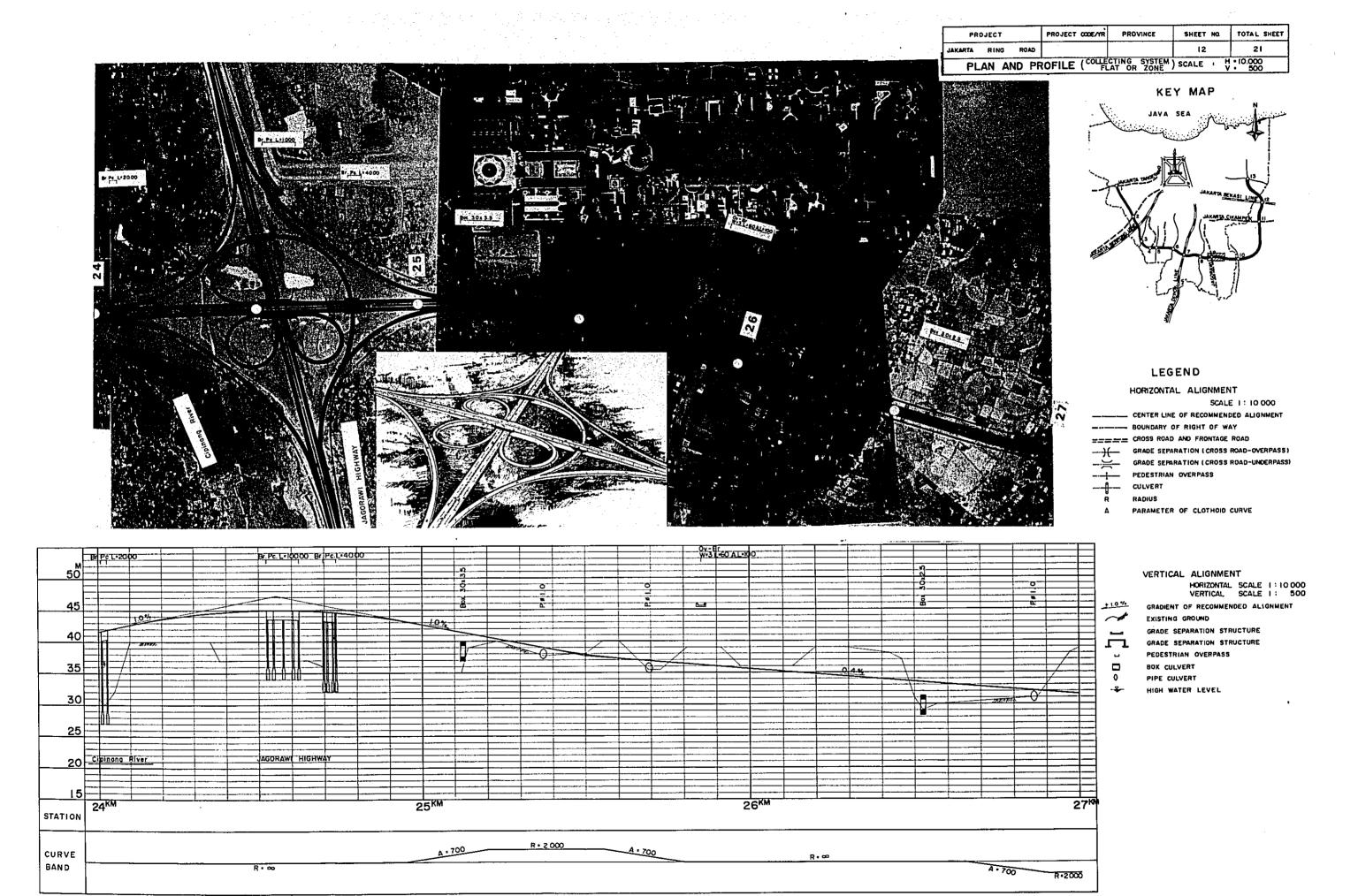
HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500 GRADIENT OF RECOMMENDED ALIGNMENT

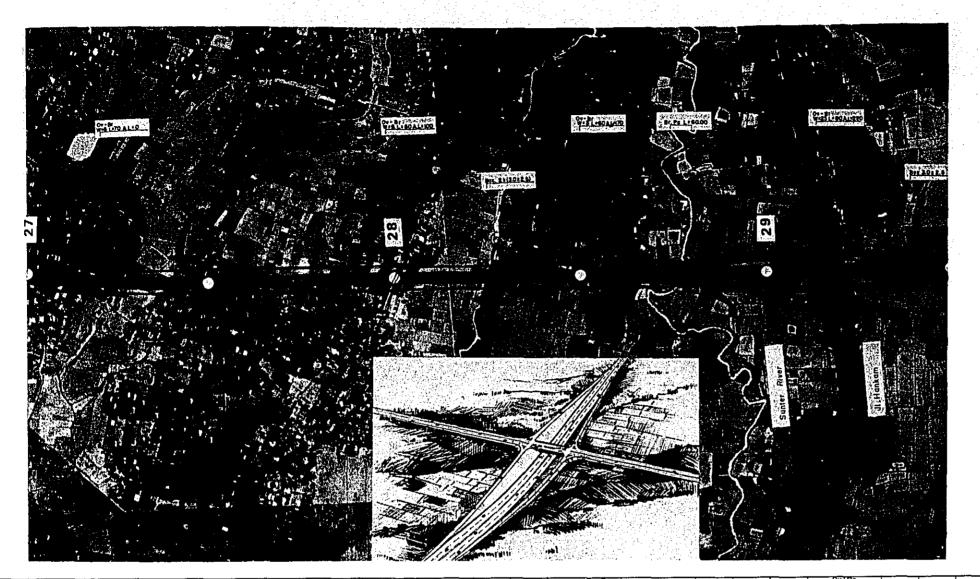
EXISTING GROUND

GRADE SEPARATION STRUCTURE GRADE SEPARATION STRUCTURE PEDESTRIAN OVERPASS

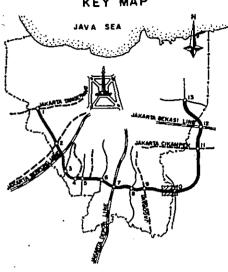
BOX CULVERT PIPE CULVERT







	*: -					
PR	DIECT		PROJECT CODE/Y	PROVINCE	SHEET, NO.	TOTAL SHEET
 JAKARTA	RING .	ROAD			13	21
PL	AN AN	ID PF	OFILE (COLL	ECTING SYSTEM LAT OR ZONE	SCALE :	1 • 10.000 / • 500



#### LEGEND

#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000 - CENTER LINE OF RECOMMENDED ALIGNMENT

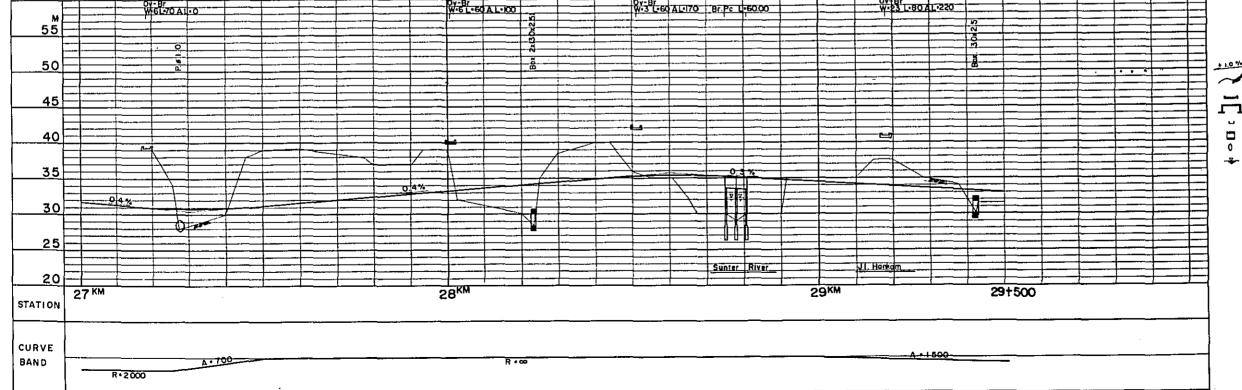
GRADE SEPARATION (CROSS ROAD-UNDERPASS)

- BOUNDARY OF RIGHT OF WAY ===== CROSS ROAD AND FRONTAGE ROAD \_\_\_ GRADE SEPARATION (CROSS ROAD-OVERPASS)

PEDESTRIAN OVERPASS CULVERT

RADIUS

PARAMETER OF CLOTHOID CURVE



#### VERTICAL ALIGNMENT HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500 GRADIENT OF RECOMMENDED ALIGNMENT

EXISTING GROUND GRADE SEPARATION STRUCTURE GRADE SEPARATION STRUCTURE PEDESTRIAN OVERPASS BOX CULVERT PIPE CULVERT HIGH WATER LEVEL

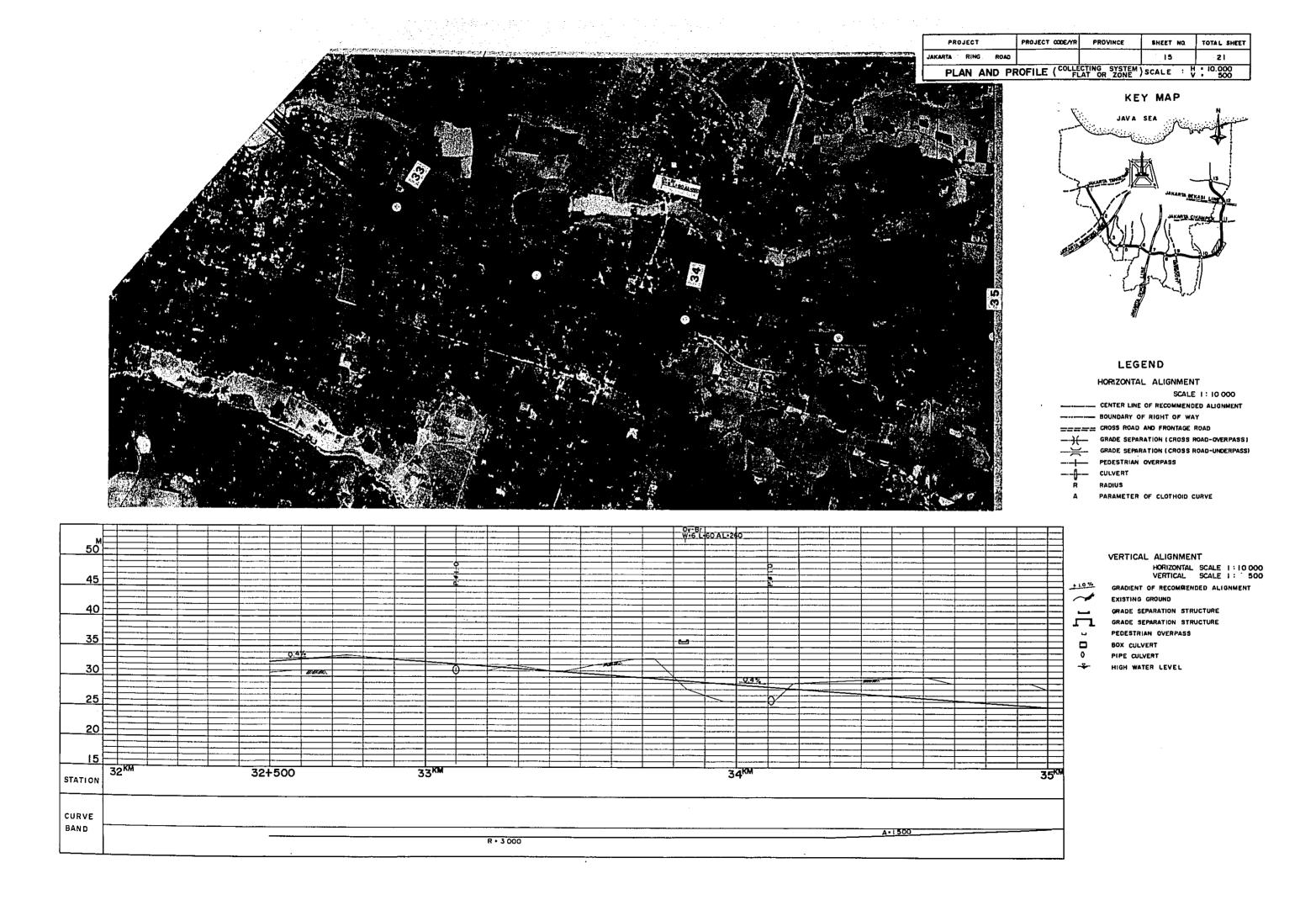


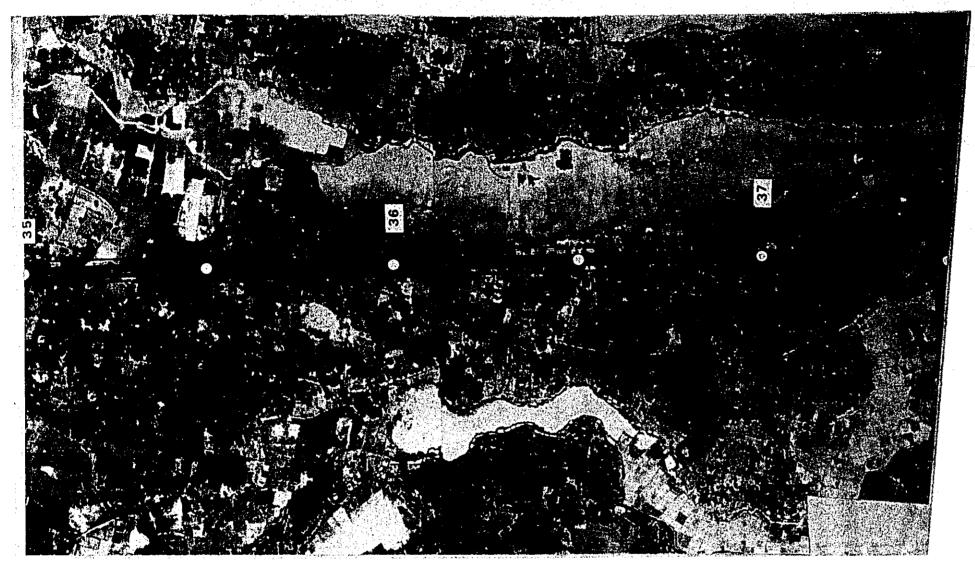
R • 3000

STATION

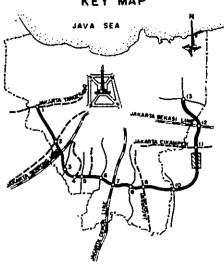
CURVE BAND

A • 1 500





PROJECT	PROJECT CODE/YR	PROVINCE	SHEET NO.	TOTAL SHEET
JAKARTA RING ROAD			16	21
PLAN AND PR	OFILE (COLLE	CTING SYSTEM	SCALE :	* 10.000 * 500



#### LEGEND

#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000

CENTER LINE OF RECOMMENDED ALIGNMENT

BOUNDARY OF RIGHT OF WAY

CROSS ROAD AND FRONTAGE ROAD

GRADE SEPARATION (CROSS ROAD-OVERPASS)

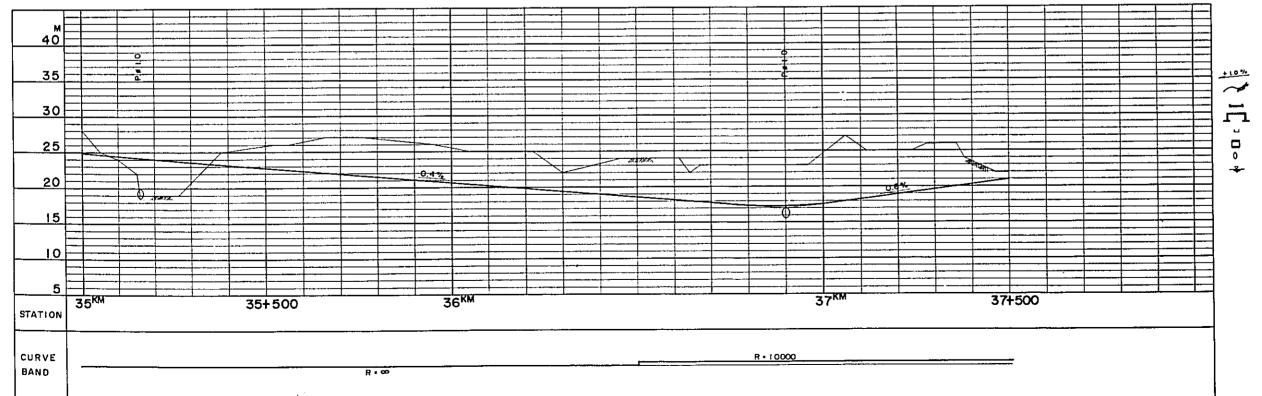
GRADE SEPARATION (CROSS ROAD-UNDERPASS)

PEDESTRIAN OVERPASS

\_\_\_\_ CULVERT

R RADIUS

A PARAMETER OF CLOTHOID CURVE



VERTICAL ALIGNMENT

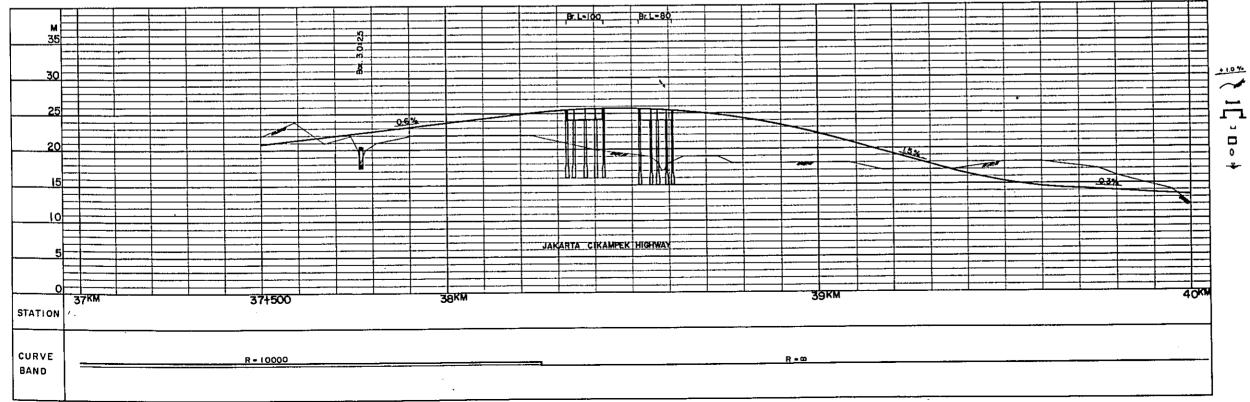
HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500

GRADIENT OF RECOMMENDED ALIGNMENT EXISTING GROUND GRADE SEPARATION STRUCTURE

GRADE SEPARATION STRUCTURE PEDESTRIAN OVERPASS BOX CULVERT

PIPE CULVERT HIGH WATER LEVEL





VERTICAL ALIGNMENT
HORIZONTAL SCA

HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500

GRADIENT OF RECOMMENDED ALIGNMENT

GRADE SEPARATION STRUCTURE

GRADE SEPARATION STRUCTURE PEDESTRIAN OVERPASS

BOX CULVERT

PIPE CULVERT



VERTICAL ALIGNMENT

EXISTING GROUND

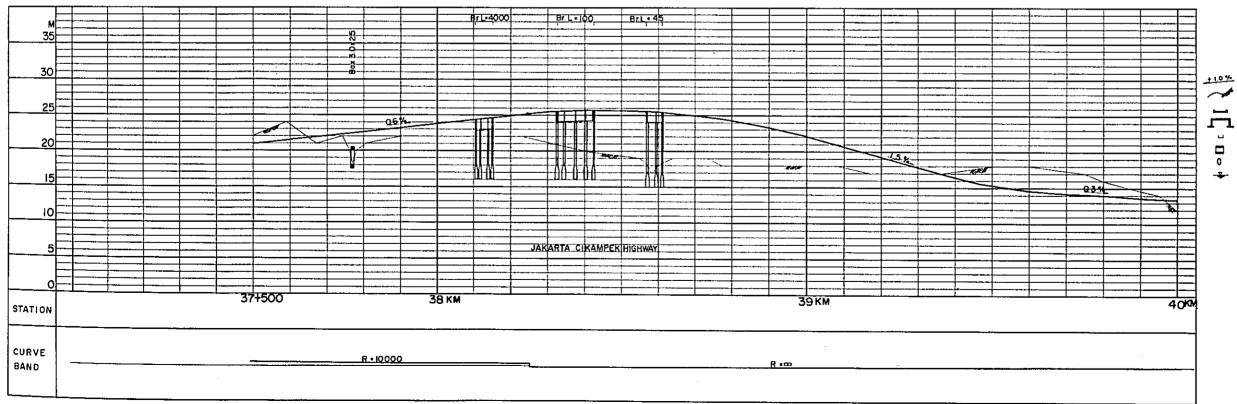
BOX CULVERT PIPE CULVERT HIGH WATER LEVEL

GRADIENT OF RECOMMENDED ALIGNMENT

GRADE SEPARATION STRUCTURE

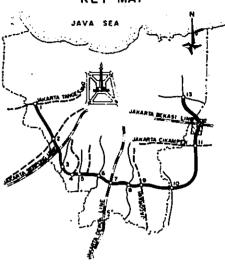
GRADE SEPARATION STRUCTURE PEDESTRIAN OVERPASS

HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500





PROJECT	PROJECT CODE/YR	PROVINCE	SHEET NO	TOTAL, SHEET	
JAKARTA RING ROAD			19	21	
PLAN AND P	ROFILE ( COLLE	CTING SYSTEM	SCALE : H	10.000	



#### LEGEND

#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000

CENTER LINE OF RECOMMENDED ALIGNMENT ---- BOUNDARY OF RIGHT OF WAY

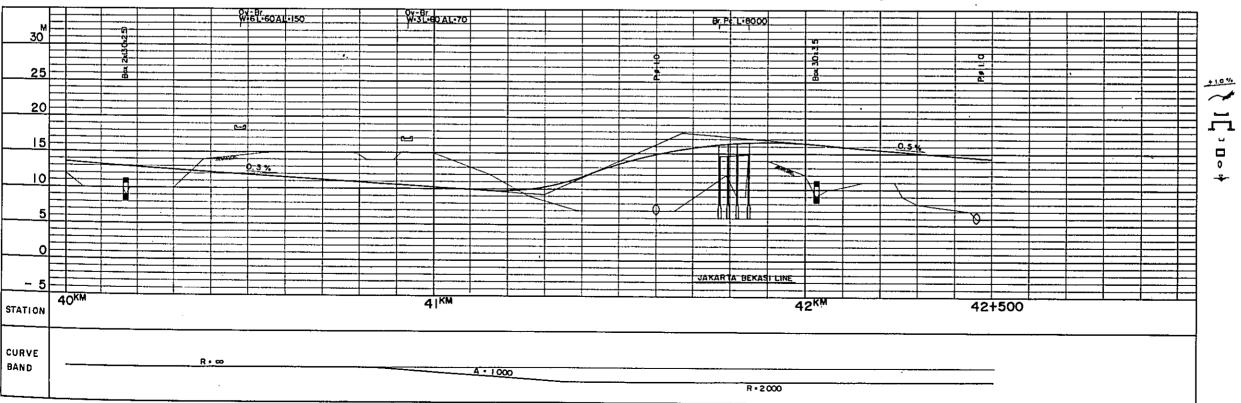
===== CROSS ROAD AND FRONTAGE ROAD GRADE SEPARATION (CROSS ROAD-OVERPASS)

GRADE SEPARATION (CROSS ROAD-UNDERPASS)

PEDESTRIAN OVERPASS \_\_ CULVERT

RADIUS

PARAMETER OF CLOTHOID CURVE



#### VERTICAL ALIGNMENT

HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500

GRADIENT OF RECOMMENDED ALIGNMENT

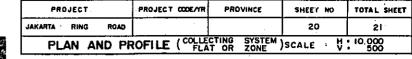
EXISTING GROUND

GRADE SEPARATION STRUCTURE

GRADE SEPARATION STRUCTURE PEDESTRIAN OVERPASS

BOX CULVERT

PIPE CULVERT



JAVA SEA

LEGEND
HORIZONTAL ALIGNMENT

----- BOUNDARY OF RIGHT OF WAY

PEDESTRIAN OVERPASS

.... CULVERT

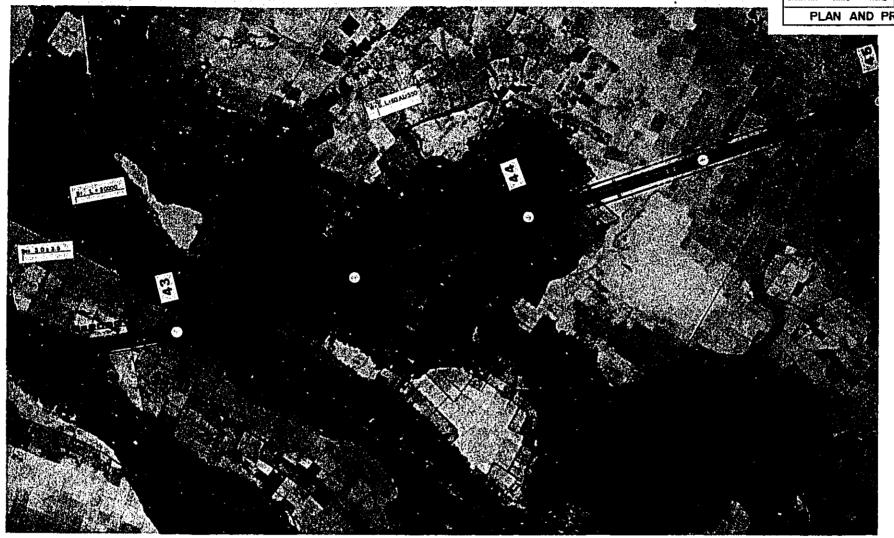
SCALE 1: 10 000

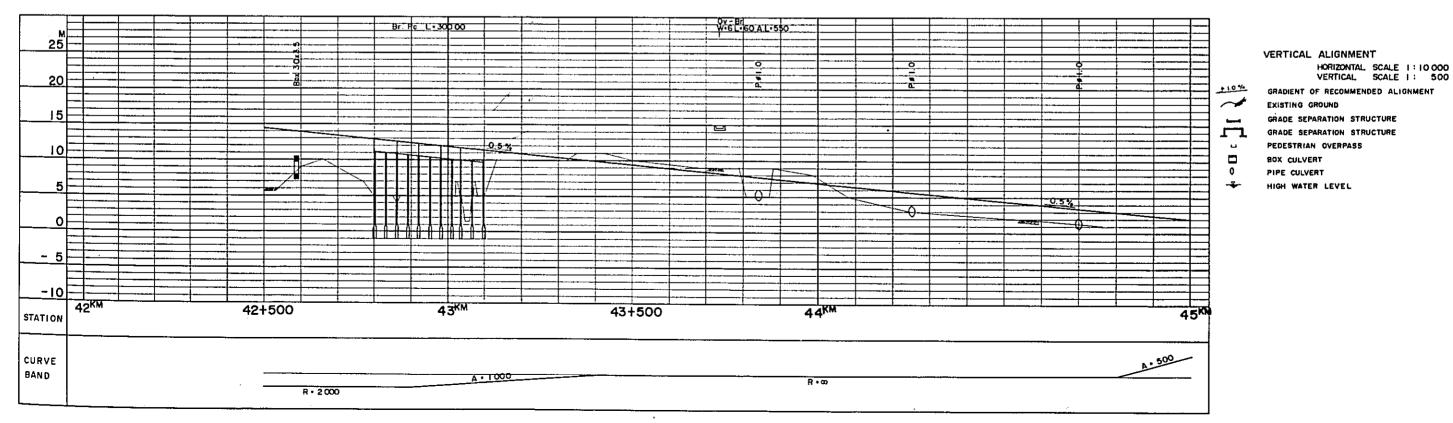
. CENTER LINE OF RECOMMENDED ALIGNMENT

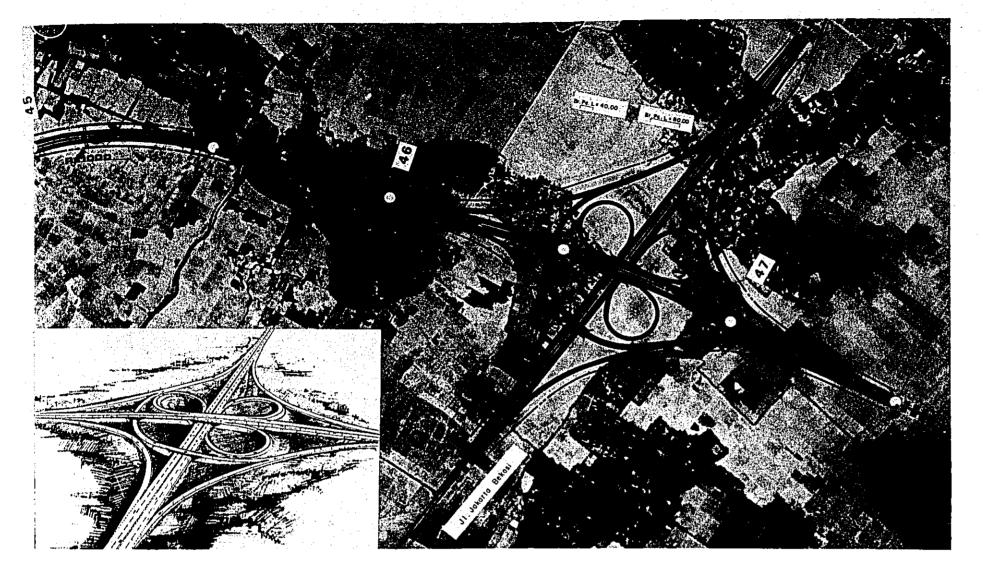
GRADE SEPARATION (CROSS ROAD-OVERPASS)

GRADE SEPARATION (CROSS ROAD-UNDERPASS)

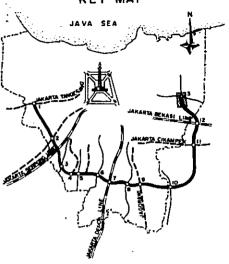
PARAMETER OF CLOTHOID CURVE







PROJECT	PROJECT CODE/YR	PROVINCE	SHEET NO.	TOTAL SHEET
JAKARTA RING ROAD			21	21
PLAN AND PR	ROFILE (COLL	CTING SYSTEM	) SCALE ! V	10.000 500



#### LEGEND

#### HORIZONTAL ALIGNMENT

SCALE 1: 10 000

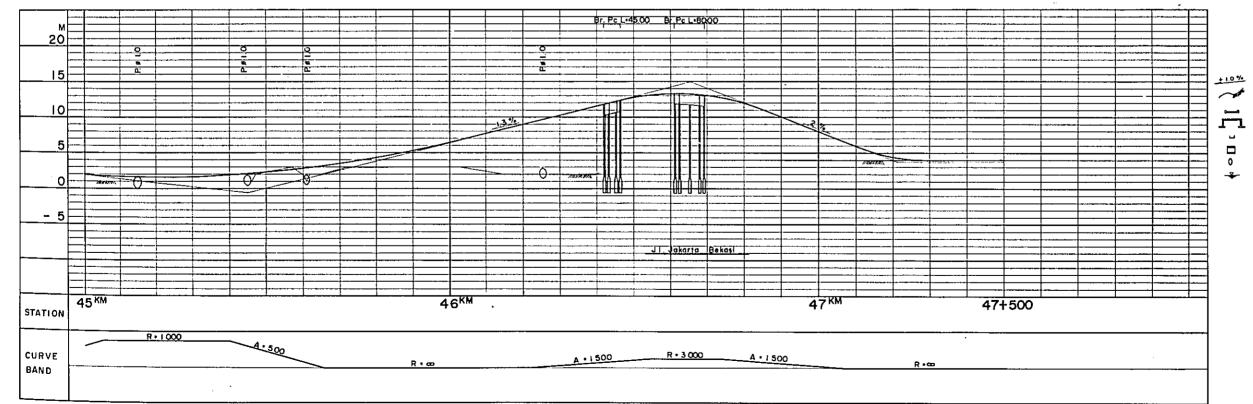
... CENTER LINE OF RECOMMENDED ALIGNMENT - BOUNDARY OF RIGHT OF WAY ===== CROSS ROAD AND FRONTAGE ROAD

GRADE SEPARATION (CROSS ROAD-OVERPASS) GRADE SEPARATION (CROSS ROAD-UNDERPASS)

PEDESTRIAN OVERPASS - CULVERT

RADIUS

A PARAMETER OF CLOTHOID CURVE



#### VERTICAL ALIGNMENT

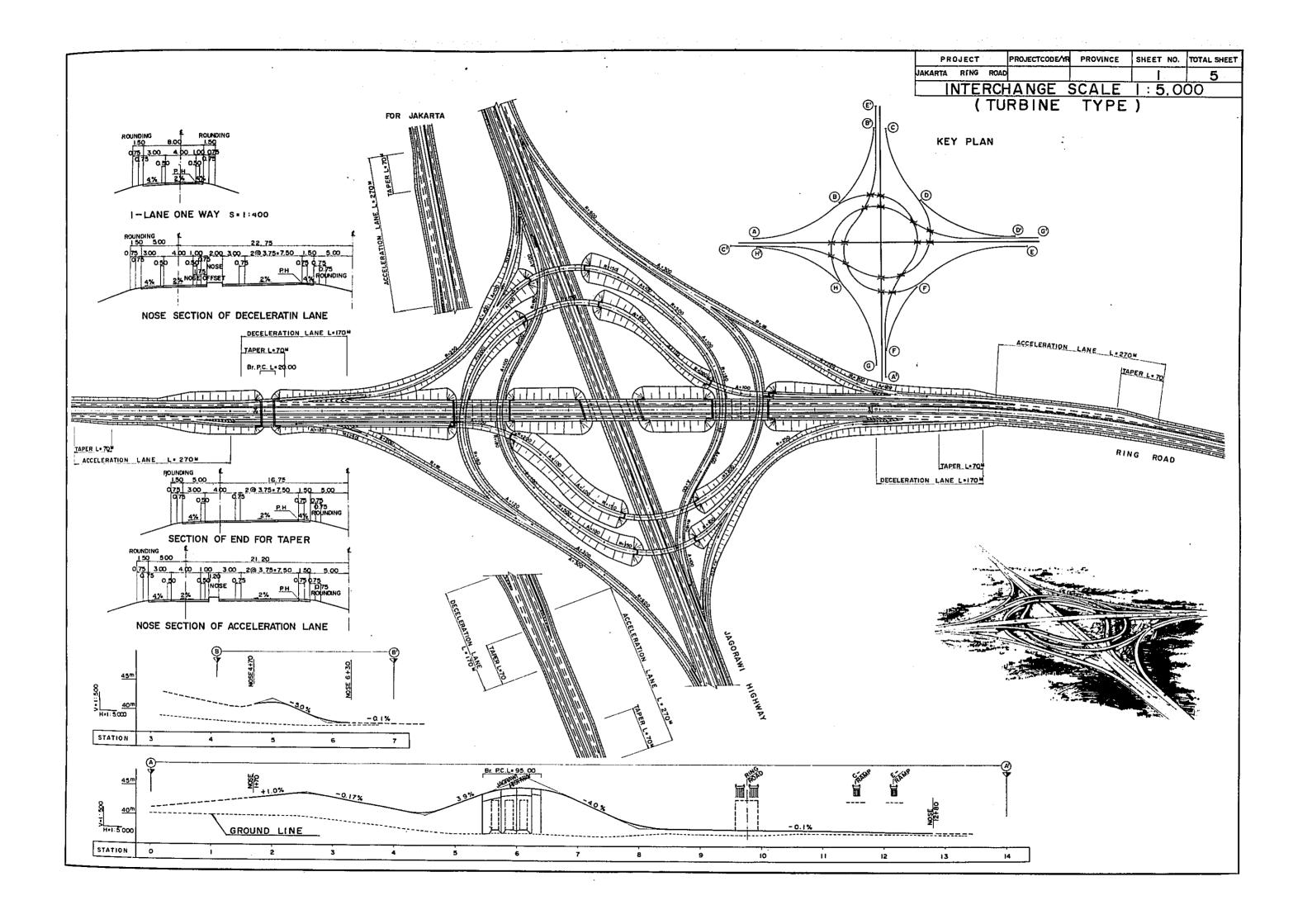
HORIZONTAL SCALE 1:10 000 VERTICAL SCALE 1: 500 GRADIENT OF RECOMMENDED ALIGNMENT

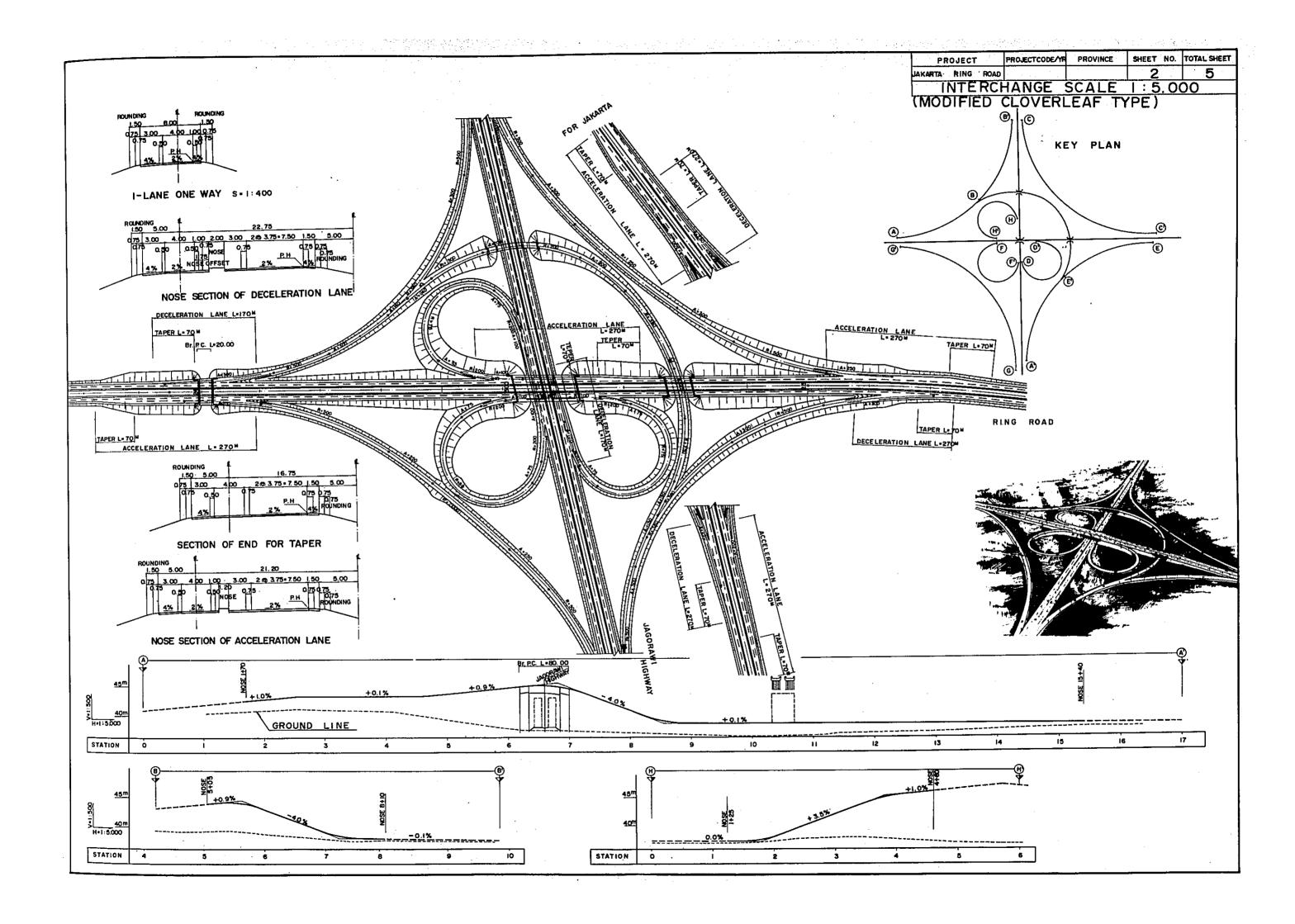
EXISTING GROUND

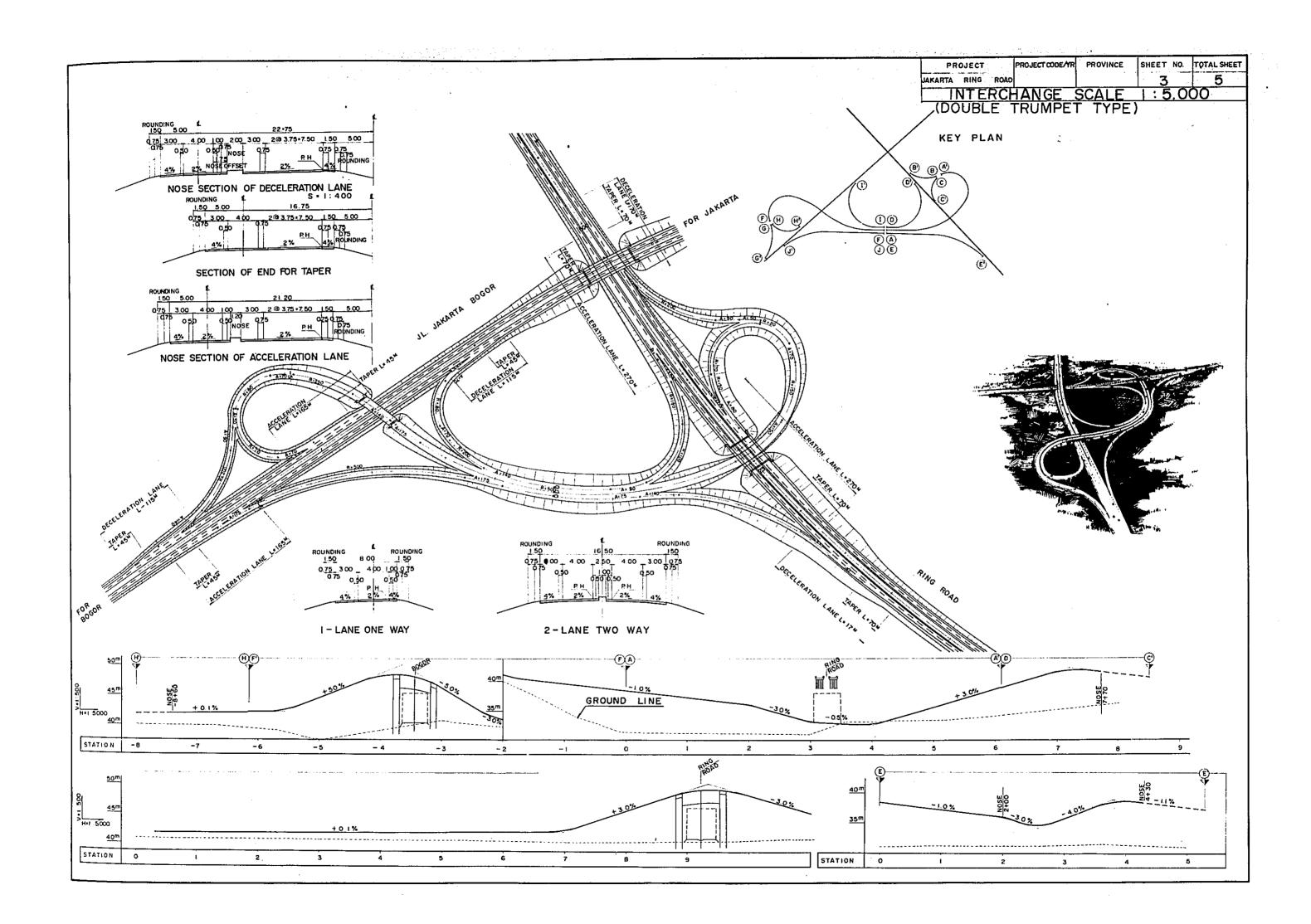
GRADE SEPARATION STRUCTURE GRADE SEPARATION STRUCTURE

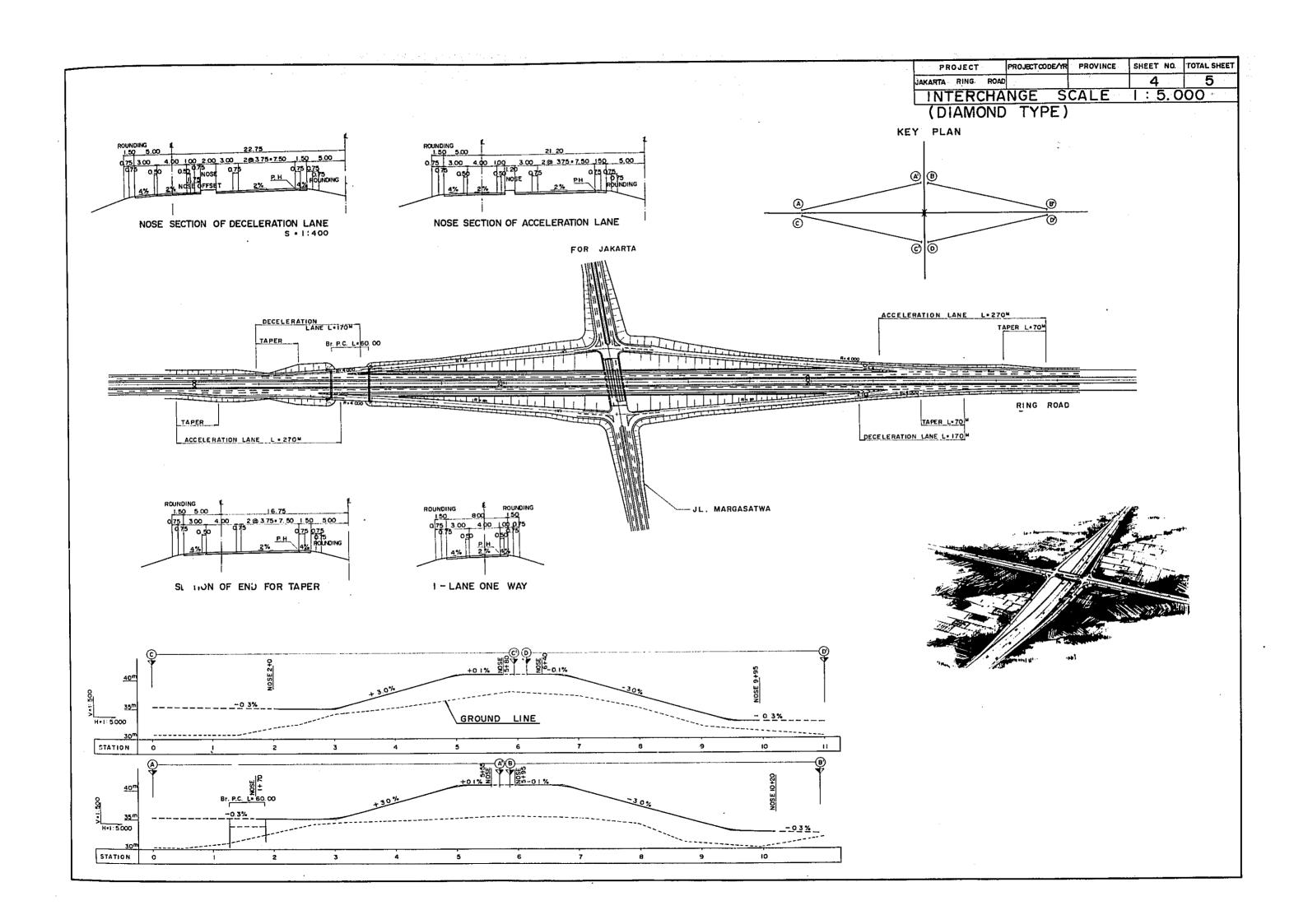
PEDESTRIAN OVERPASS

BOX CULVERT PIPE CULVERT







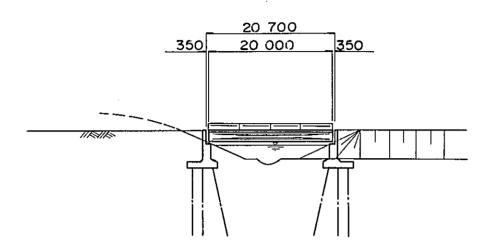


	PROJECT PROJECT CODE/TR PROVINCE SHEET NO. TOTAL SHEET  JAKARTA RING ROAD 5 5  TOLL GATE SCALE 1:200
B	RING ROAD
BOOTH ISLAND	15.40 5.00 0.75 3.50 2.20 3.00 2.20 0.75 GROUND LINE
B 7.70 7.00 7.70  SECTION A-A S=1:200	CONCRETE PAVEMENT 1 = 25 <sup>cm</sup> BASE COURSE (CRUSHED STONE) t = 25 <sup>cm</sup>
B SECTION A A S=1.200	SECTION B-B s=1:200
SO MARKING	
00 5.20	
250 3	
\frac{\fir}{\fint}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fin}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}{\fint}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}{\frac{\	
	VIEW OF TOLL GATE
B PLAN S = 1: 200	
<u> </u>	

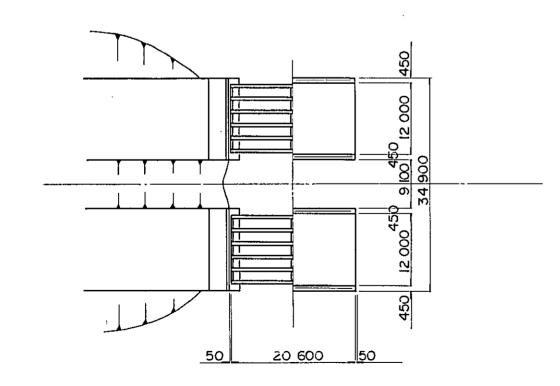
## GROGOL BRIDGE

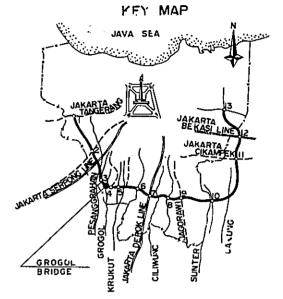
PROJECT			PROJECTCODE/YR	PROVINCE	SHEET NO.		TOTAL SHEET	
JAKARTA	RING	ROAD					5	
		GR	OGOL	BRIDGE				

ELEVATION S = 1:600

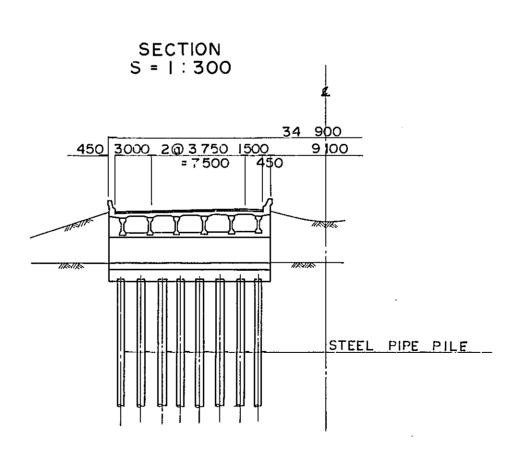


PLAN S=1:600



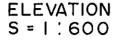


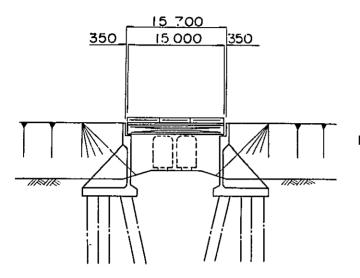
- NOTES : 1. SUPERSTRUCTURE TYPE IS PRESTRESSED CONCRETE COMPOSITE BEAMS .
  - 2. SIZE AND NUMBER OF SUPER AND SUBSTRUCTURES AND FOUNDATION PILES SHOWN ARE FOR PRELIMINARY ONLY.
  - 3. DIMENSIONS SHOWN ARE IN MILLIMETERS.



## JAKARTA-DEPOK RAILWAY BRIDGE

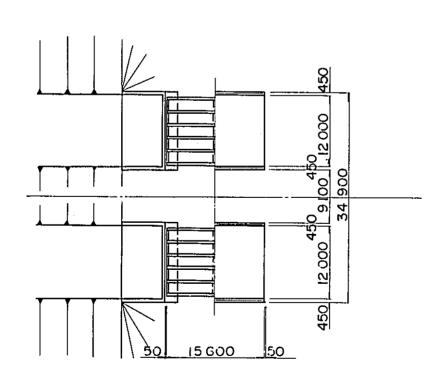
PF	OJECT		PROJECTCODE/YR	PROVINCE	SHEET NO.	TOTAL SHEET	
JAKARTA	RING	ROAD			2	5	
رل	ΔΚΔΙ	<u>₹</u> Т∆	-DEPOK	RAII WA'	Y BRID	GE	

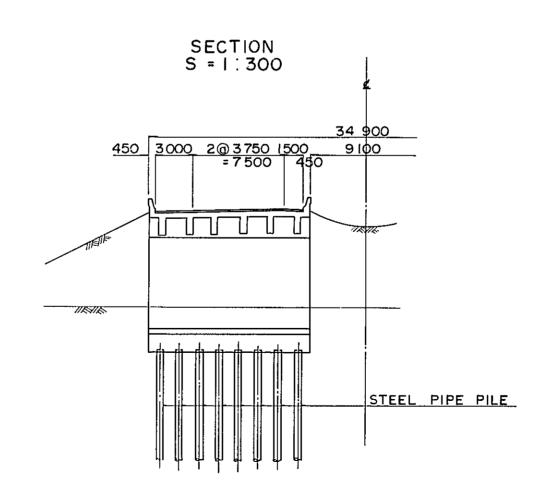


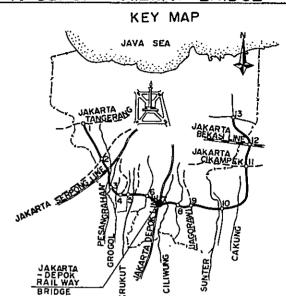


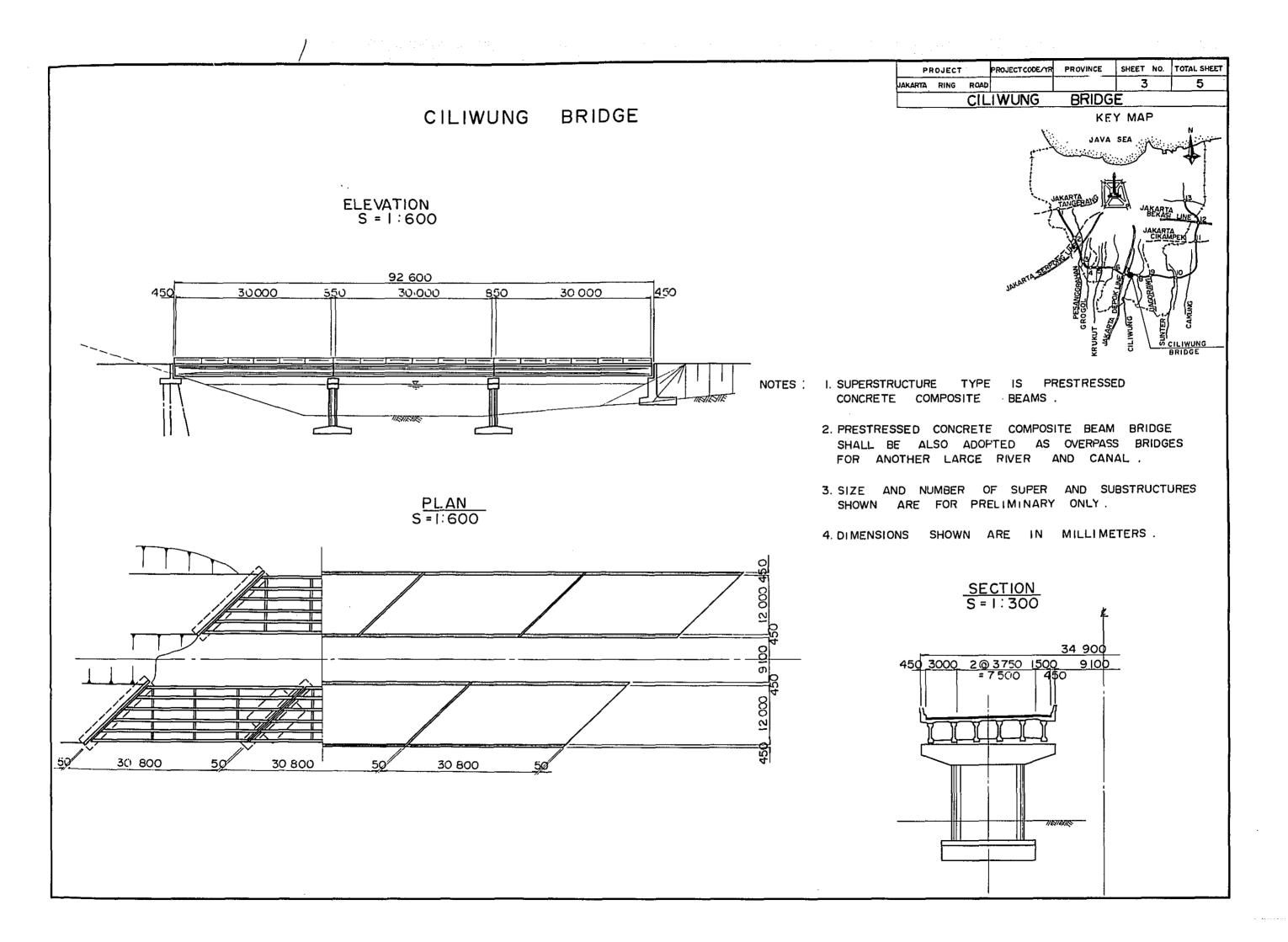
- NOTES: I. SUPERSTRUCTURE TYPE IS REINFORCED CONCRETE BEAMS .
  - 2. SIZE AND NUMBER OF SUPER AND SUBTRUCTRES AND FOUNDATION PILES SHOWN ARE FOR PRELIMINARY ONLY.
  - 3. DIMENSIONS SHOWN ARE IN MILLIMETERS .









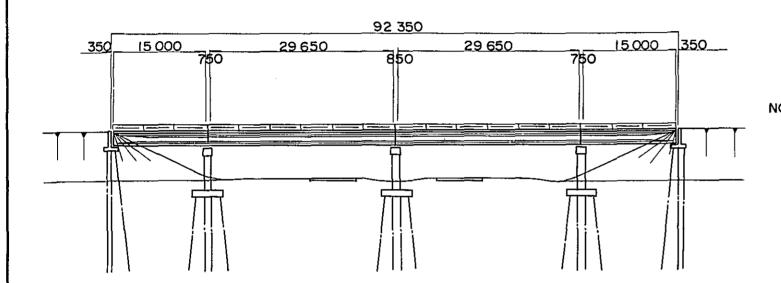


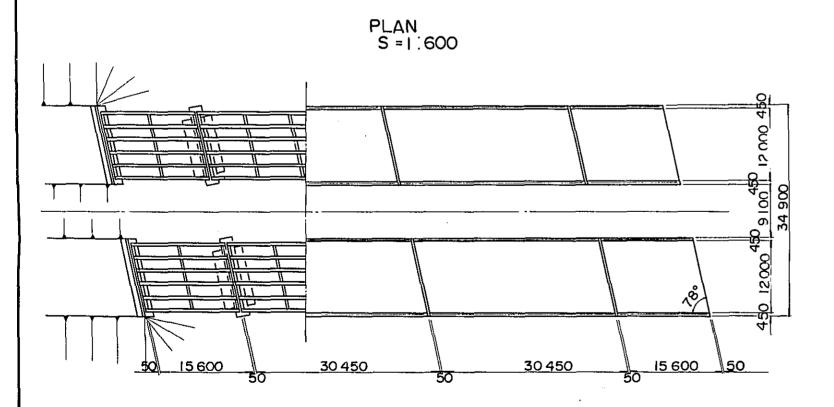
PF	ROJECT		PROJECT CODE/YR	PROVINCE	SHEET NO.	TOTAL SE	ŒĒŤ
JAKARTA	RING	ROAD			4	5	
	JΔ	GOF	AWI HI	GHWAY	BRIDGE		

KEY MAP

JAGORAWI HIGHWAY BRIDGE

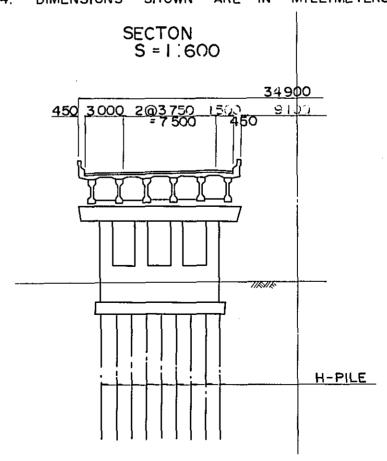
S = 1 : 600





NOTES : I. SUPERSTRUCTURE TYPE IS PRESTRESSED CONCRETE COMPOSITE BEAMS .

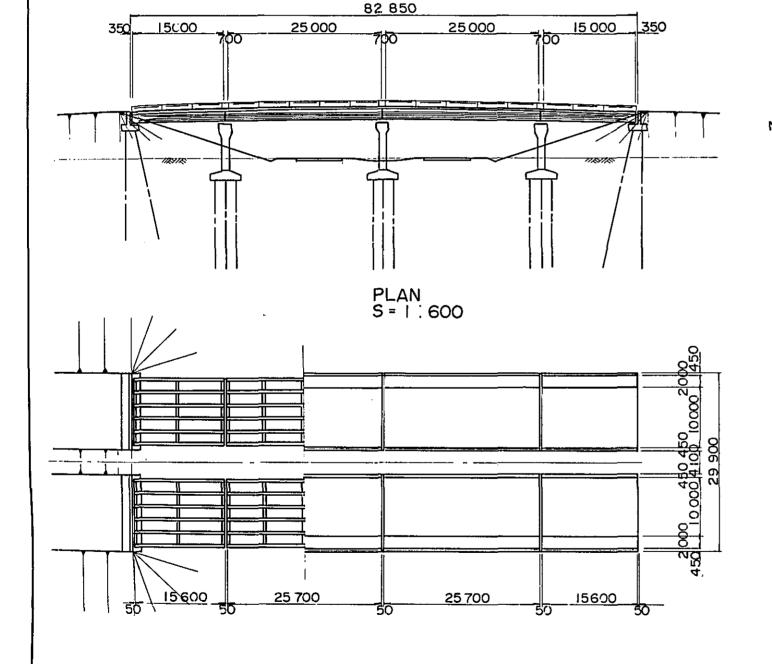
- 2. PRESTRESSED CONCRETE COMPOSITE BEAM BRIDGE SHALL BE ALSO ADOPTED AS OVERPASS BRIDGES FOR GRADE-SEPARATION FOR THE TOLL WAY AND ANOTHER HIGHWAY.
- 3. SIZE AND NUMBER OF SUPER AND SUBSTRUCTURES AND FOUNDATION PILES SHOWN ARE FOR PRELIMINARY ONLY .
- 4. DIMENSIONS SHOWN ARE IN MILLIMETERS .

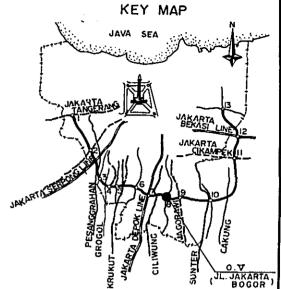


•	PROJECT		PROJECT CODE/YR	PROVINCE	SHEET NO.	TOTAL SHEET	
	JAKARTA	RING	ROAD	·		5	5
		OVI	FR	BRIDGE (	JL. JAKAF	RTA BO	GOR)

## OVER BRIDGE (JL. JAKARTA BOGOR)







- NOTES: I. SUPERSTRUCTURE TYPE IS PRESTRESSED CONCRETE COMPOSITE BEAMS.
  - 2. PRESTRESSED CONCRETE COMPOSITE BEAM BRIDGE SHALL BE ALSO ADOPTED AS OVERPASS BRIDGES FOR GRADE SEPARATION FOR THE OUTER RING ROAD.
  - 3. SIZE AND NUMBER OF SUPER AND SUBSTRUCTURES AND FOUNDATION PILES SHOWN ARE FOR PRELIMINARY ONLY.
  - 4. DIMENSIONS SHOWN ARE IN MILLIMETERS.

