

REPUBLIC OF THE PHILIPPINES
MINISTRY OF PUBLIC WORKS & HIGHWAYS

**FEASIBILITY STUDY
FOR
THE METRO MANILA OUTER
MAJOR ROADS PROJECT
(NORTHERN PACKAGE)**

FINAL REPORT
(DRAWINGS)

JUNE, 1983

JAPAN INTERNATIONAL COOPERATION AGENCY

JICA
LIB
SDF
LIBRARY

SDF

83-66(4/4)

JICA LIBRARY



1031566C1J

REPUBLIC OF THE PHILIPPINES
MINISTRY OF PUBLIC WORKS & HIGHWAYS

**FEASIBILITY STUDY
FOR
THE METRO MANILA OUTER
MAJOR ROADS PROJECT
(NORTHERN PACKAGE)**

FINAL REPORT
(DRAWINGS)

JUNE, 1983

JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団	
参入 期 84.7.6	47/8
登録No. 08127	6/8
10585	SDF

INDEX OF DRAWINGS

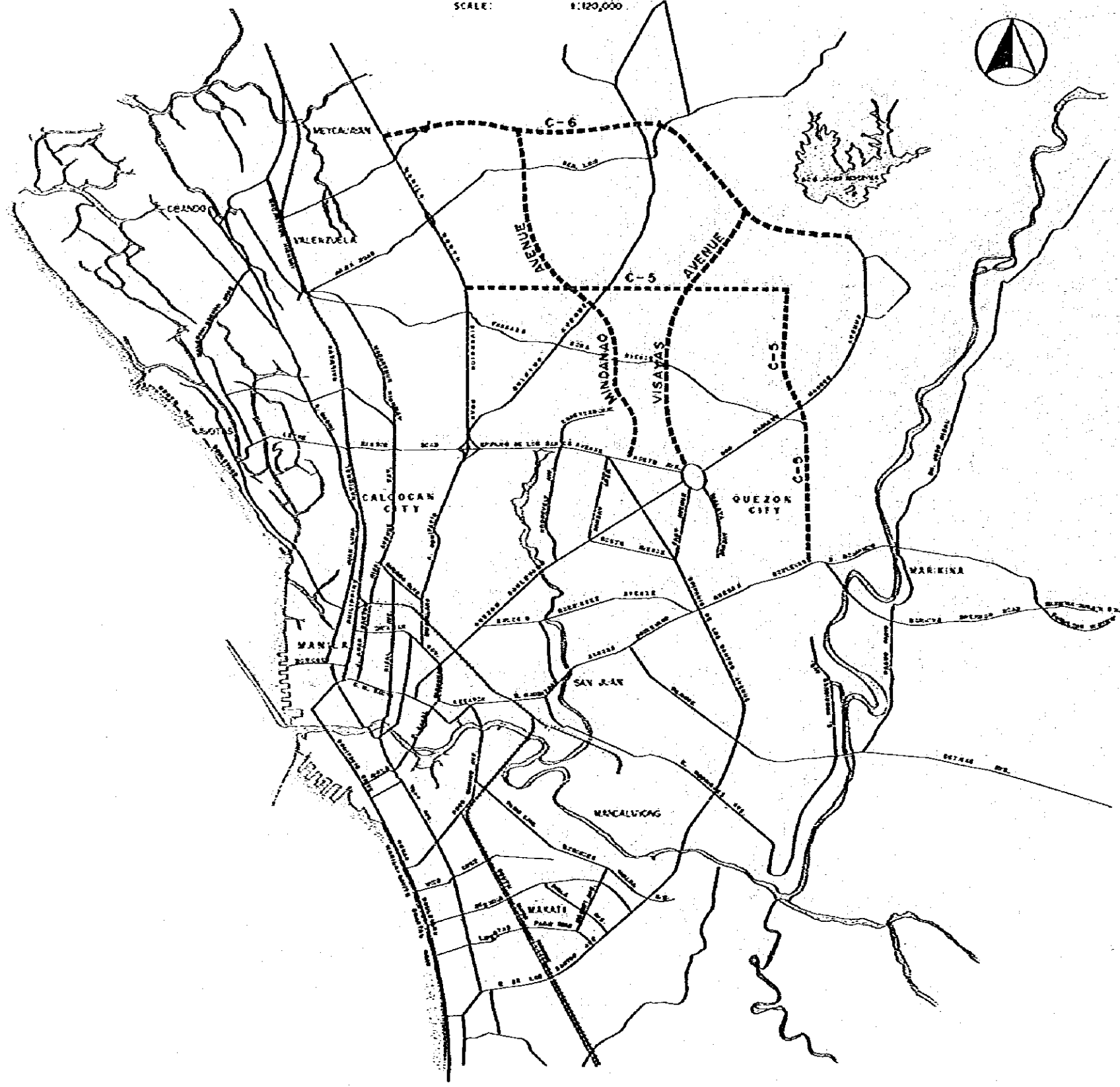
TITLE :	DRAWINGS NO.
VICINITY MAP & KEY MAP	1/66
 ROADWAY	
CROSS SECTIONS	
TYPICAL CROSS SECTIONS	2/66 - 4/66
PLANS & PROFILES	
C-5	5/66 - 13/66
C-6	14/66 - 21/66
MINDANAO AVENUE	22/66 - 27/66
VISAYAS AVENUE	28/66 - 31/66
INTERCHANGES	32/66 - 42/66
 BRIDGES & STRUCTURES	
PLANS & ELEVATIONS	
C-5	43/66 - 53/66
C-6	54/66 - 57/66
MINDANAO AVENUE	58/66 - 61/66
VISAYAS AVENUE	62/66 - 64/66
PEDESTRIAN BRIDGE	65/66
BOX CULVERT & RETAINING WALL	66/66

LEGEND :

PLAN		PROFILE
CENTERLINE OF PROJECT ROAD	EARTH CUT	PROPOSED GRADIENT LINE
SIDE LINE OF PROJECT ROAD	BRIDGE	EXISTING GROUND HEIGHT
STATION (EVERY ONE KILOMETER)	BOX CULVERT	BRIDGE
STATION (EVERY ONE HUNDRED METER)	PEDESTRIAN BRIDGE	BOX CULVERT
EMBANKMENT		PEDESTRIAN BRIDGE

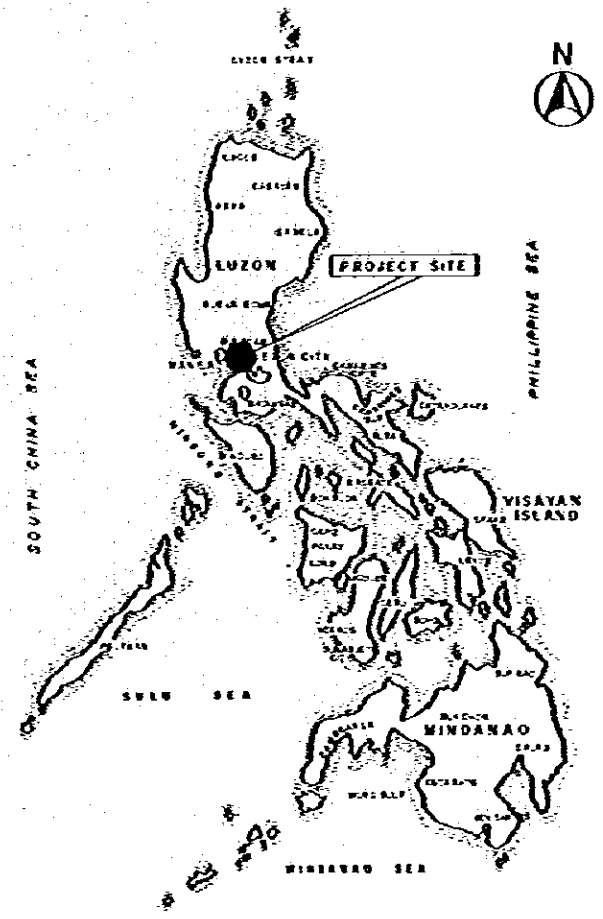
VICINITY MAP

SCALE: 1:120,000



KEY MAP

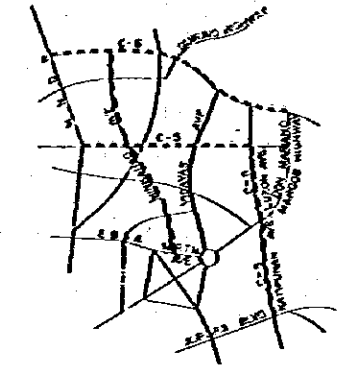
SCALE: 1:15,000,000



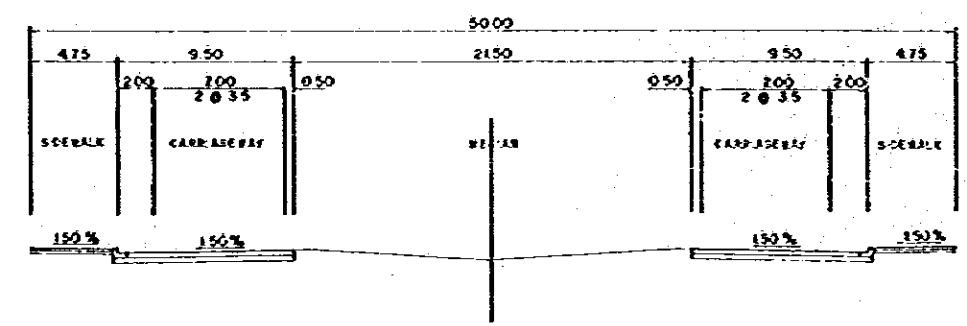
- LEGEND:**
- PROPOSED PROJECT ROADS
 - EXISTING ROADS
 - +—— NATIONAL RAILWAYS

C - 5

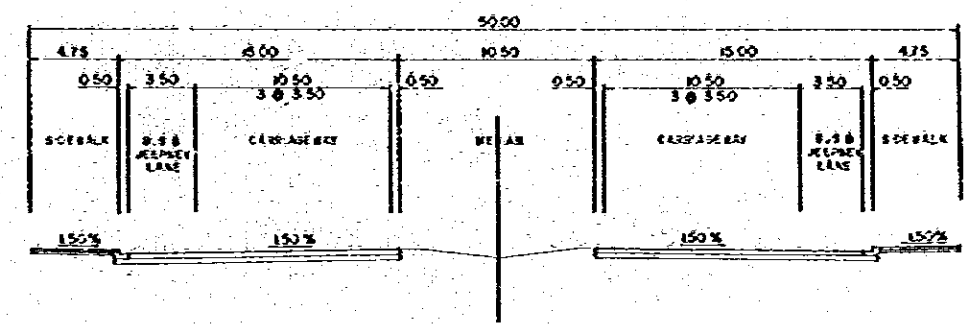
ROUTES AND SECTIONS



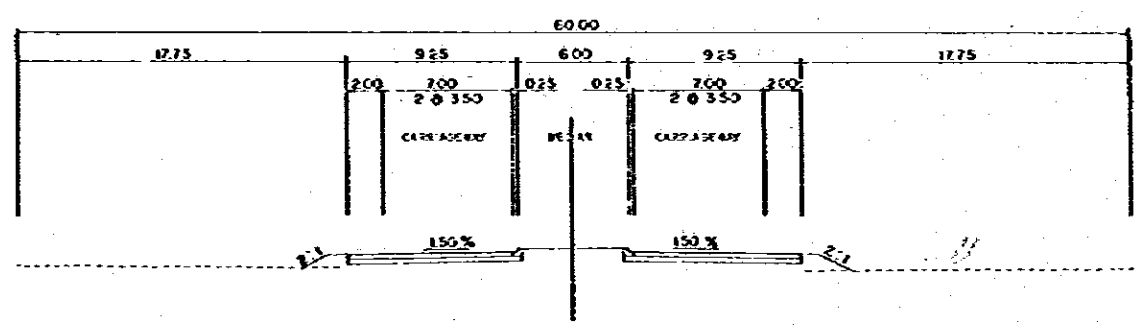
REPUBLIC AVENUE
STAGE - 1



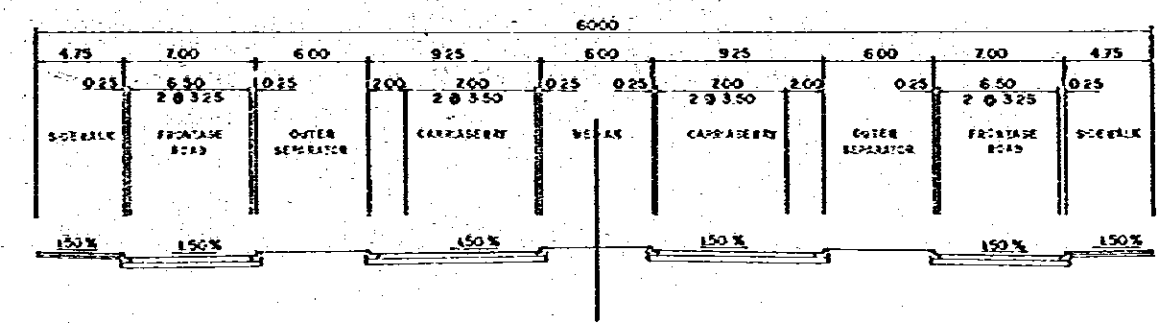
REPUBLIC AVENUE
STAGE - 2



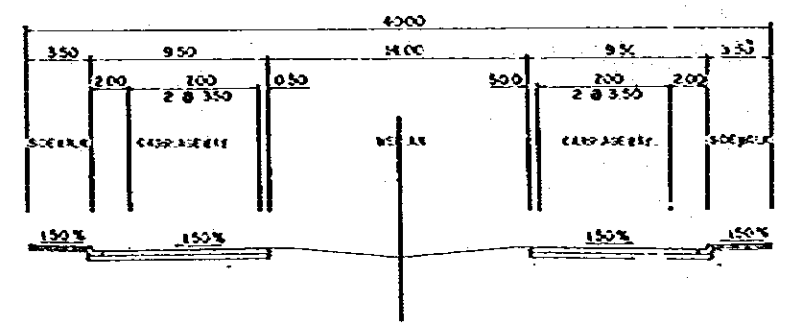
LUZON AVENUE (STA. 7 + 485 - 9 + 300)
STAGE - 1



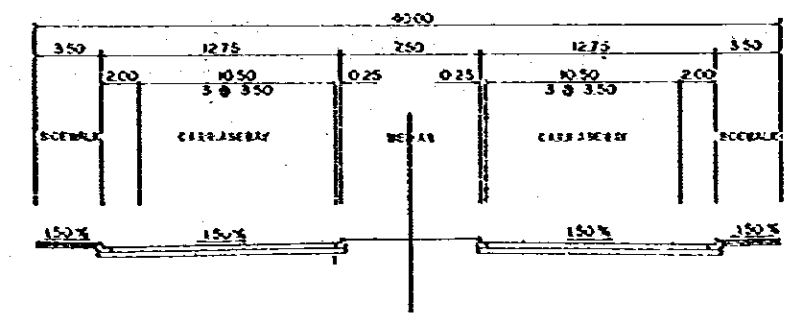
LUZON AVENUE (STA. 7 + 485 - 9 + 300)
STAGE - 2



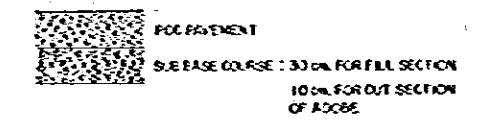
LUZON AVENUE (STA. 9 + 300 - 10 + 470)
STAGE - 1



LUZON AVENUE (STA. 9 + 300 - 10 + 470)
STAGE - 2

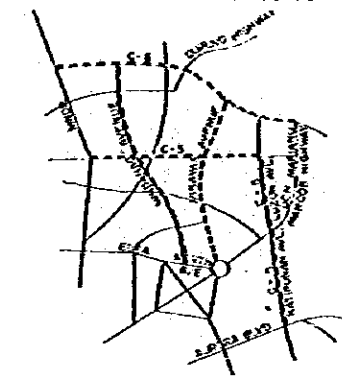


PAVEMENT THICKNESS



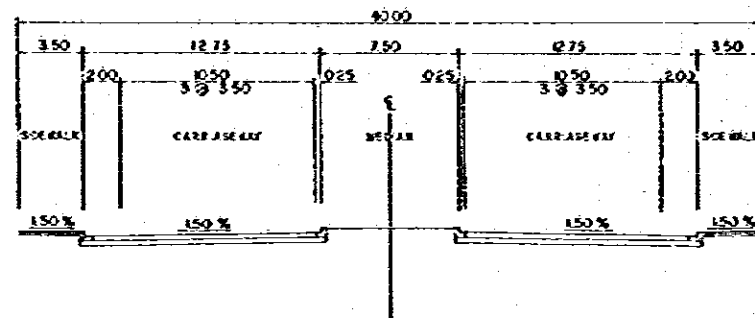
ROUTES AND SECTIONS	PCC
VIOR - MACANAO AVE	23 cm.
MACANAO AVE - DON MARCOS MARCOS ROAD	23 cm.

ROUTES AND SECTIONS

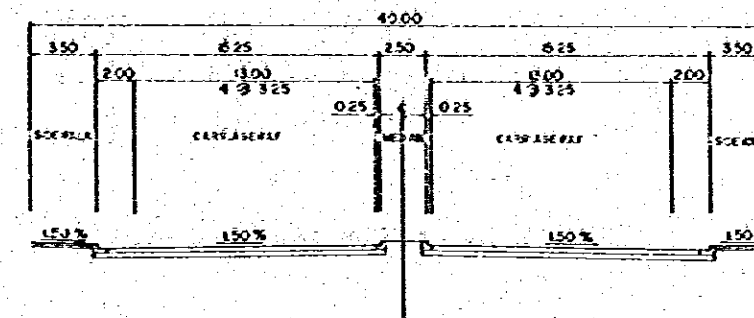


C - 5

KATIPUNAN AVENUE
STAGE - 1

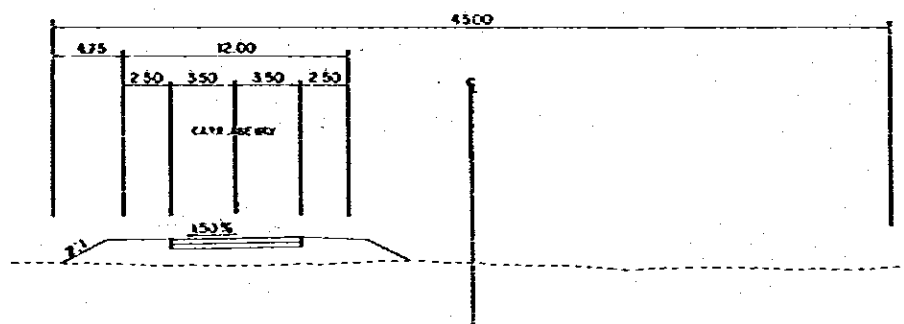


KATIPUNAN AVENUE
STAGE - 2

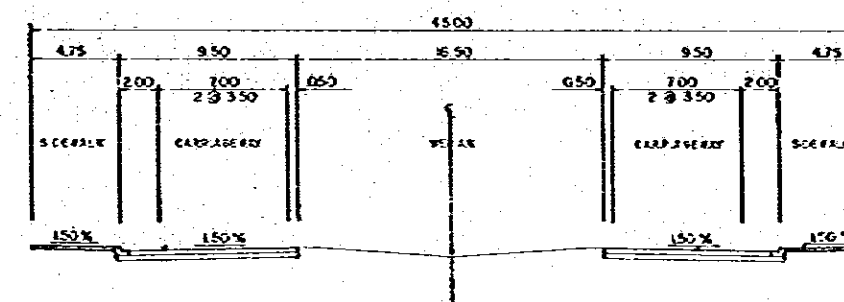


C - 6

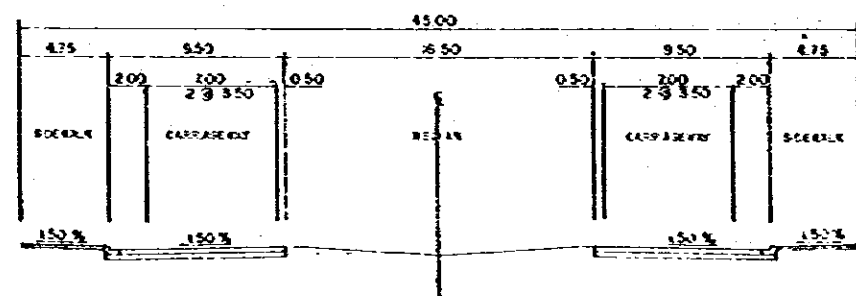
C-6 (MNR - QUIRINO HIGHWAY)
STAGE - 1



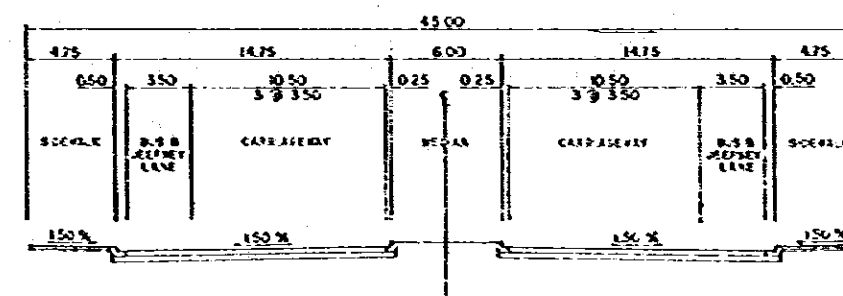
C-6 (MNR - QUIRINO HIGHWAY)
STAGE - 2



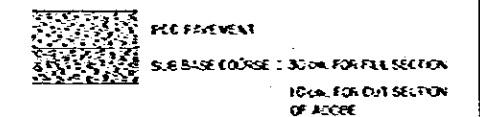
C-6 (QUIRINO HIGHWAY - DON MARIANO MARCOS HIGHWAY)
STAGE - 1



C-6 (QUIRINO HIGHWAY - DON MARIANO MARCOS HIGHWAY)
STAGE - 2



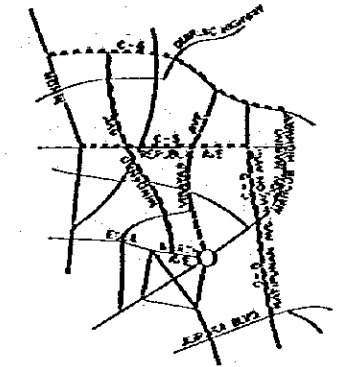
PAVEMENT THICKNESS



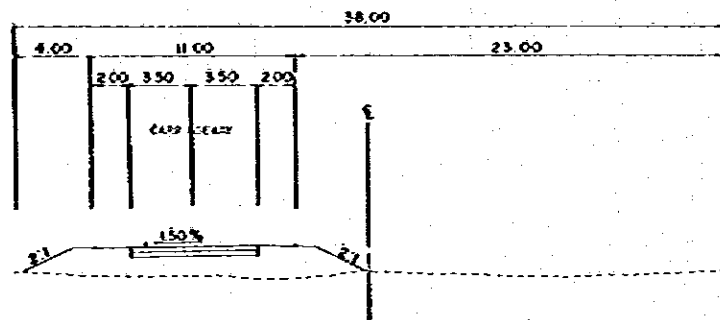
ROUTES AND SECTIONS	PCC
DON MARIANO MARCOS-HOPEWELL - ALORCA BLVD.	25 cm.
MNR - SERRANO AVE.	25 cm.
MANCANA AVE. - QUIRINO HIGHWAY	23 cm.
QUIRINO HIGHWAY - DON MARIANO MARCOS HIGHWAY	23 cm.

MINDANAO AVENUE

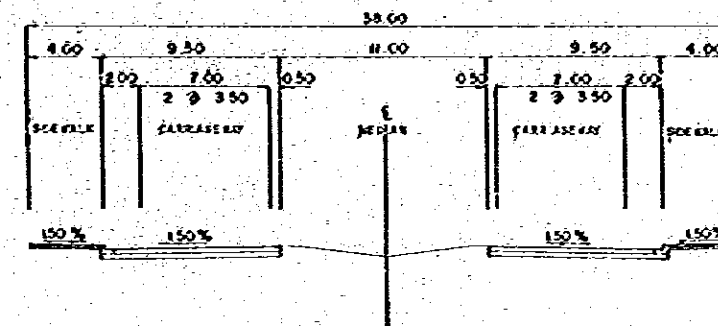
ROUTES AND SECTIONS



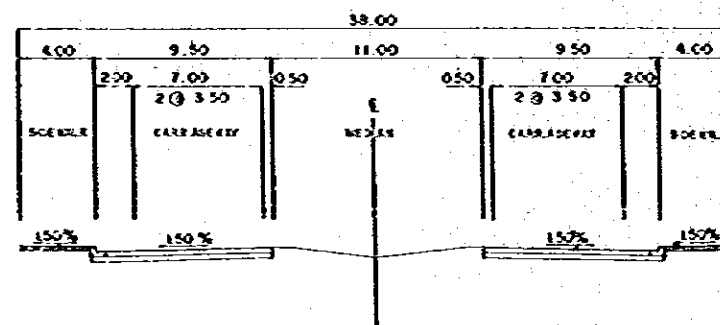
MINDANAO AVENUE (C-5 - C-6)
STAGE - 1



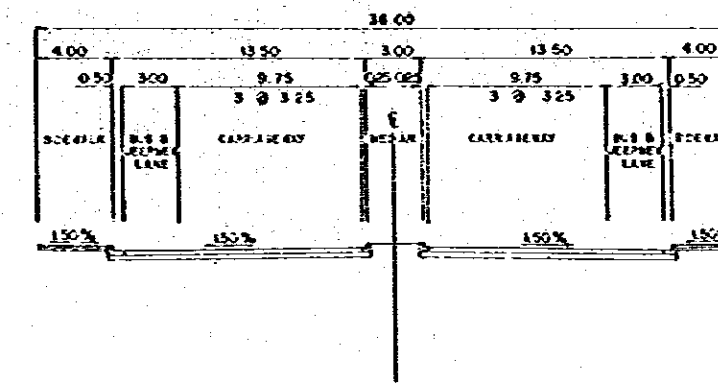
MINDANAO AVENUE (C-5 - C-6)
STAGE - 2



MINDANAO AVENUE (NORTH AVENUE - C-5)
STAGE - 1

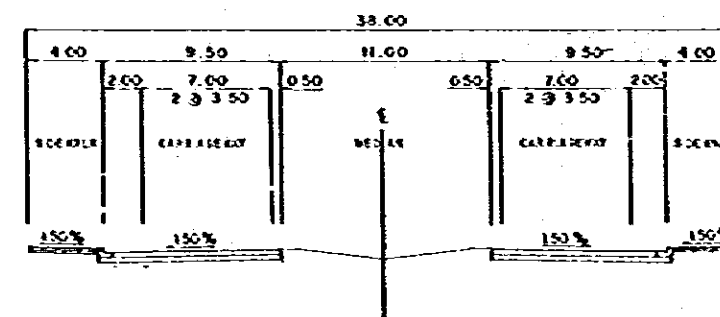


MINDANAO AVENUE (NORTH AVENUE - C-5)
STAGE - 2

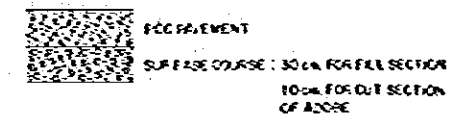


VISAYAS AVENUE

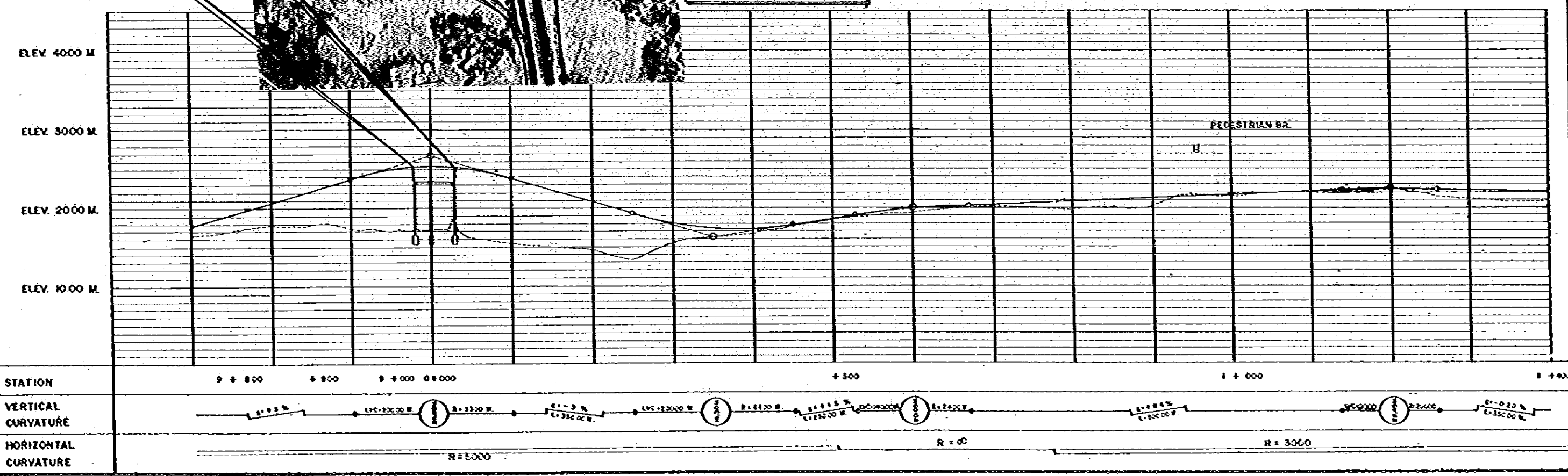
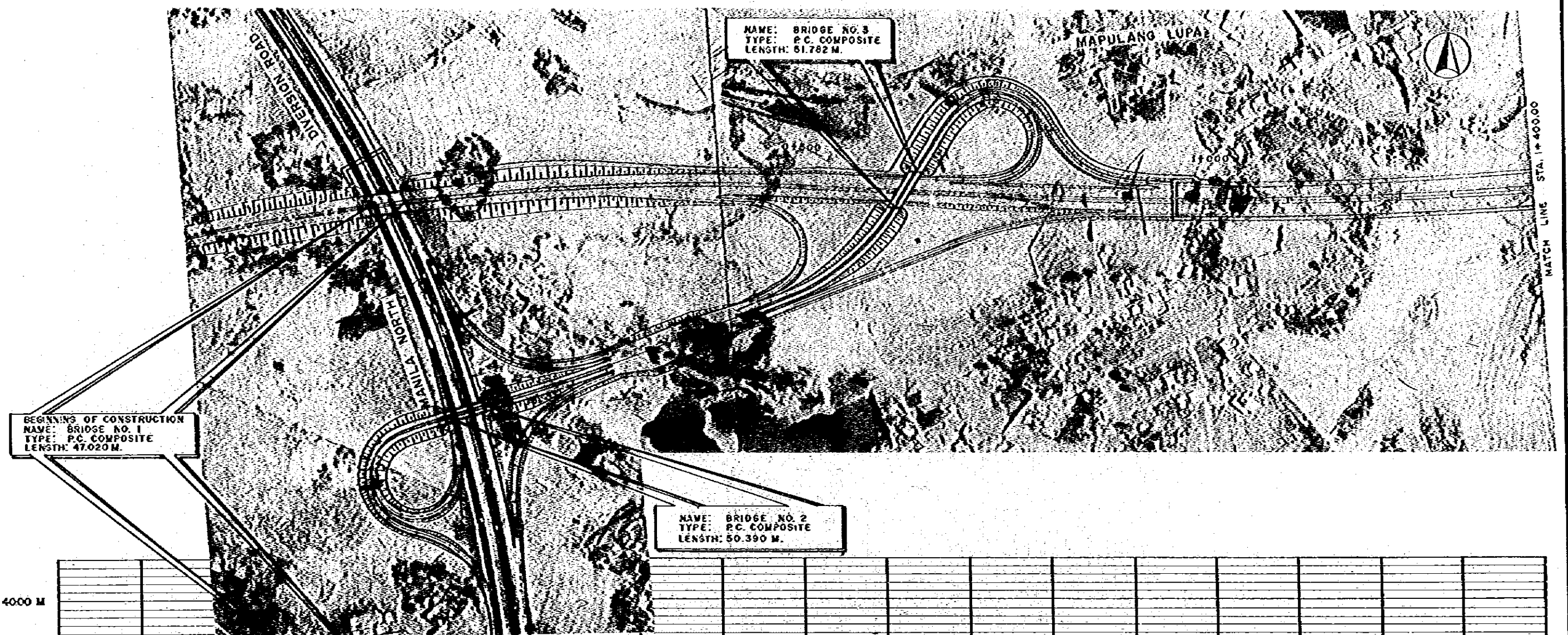
VISAYAS AVENUE
STAGE - 1 AND 2

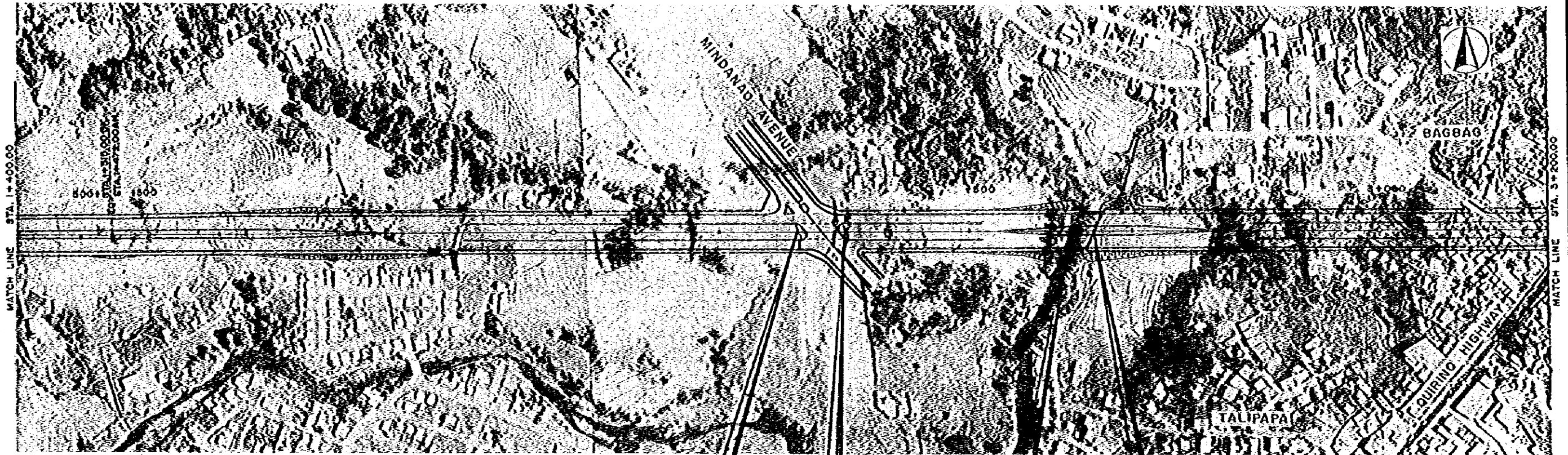


PAYMENT THICKNESS



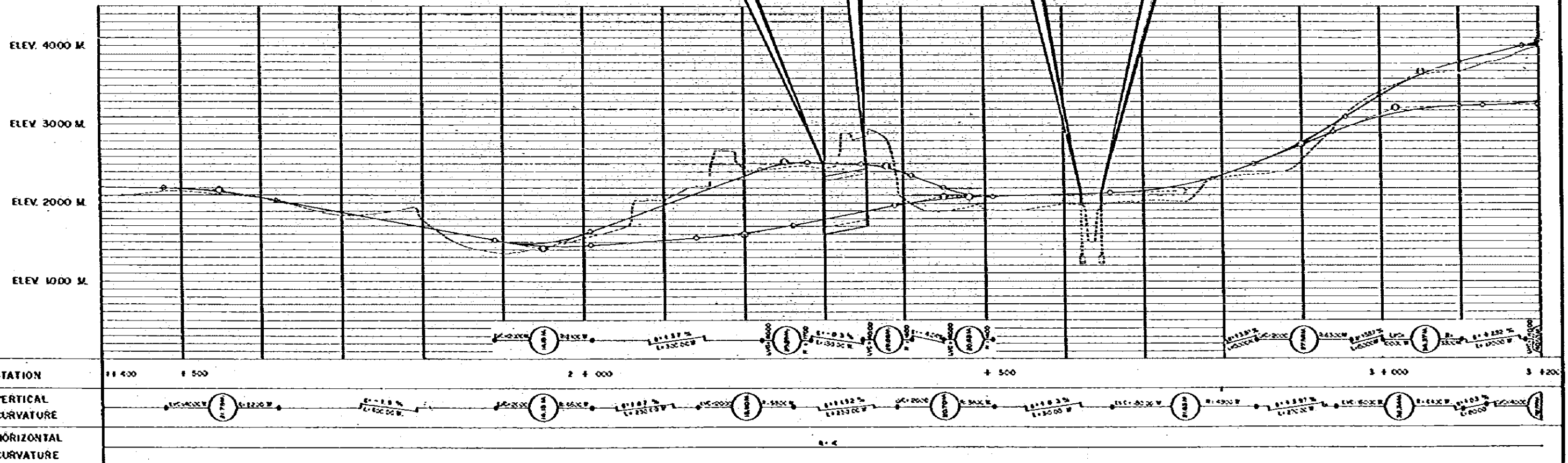
ROUTES AND SECTIONS	FCC
MINDANAO AVENUE	23cm
VISAYAS AVENUE	23cm

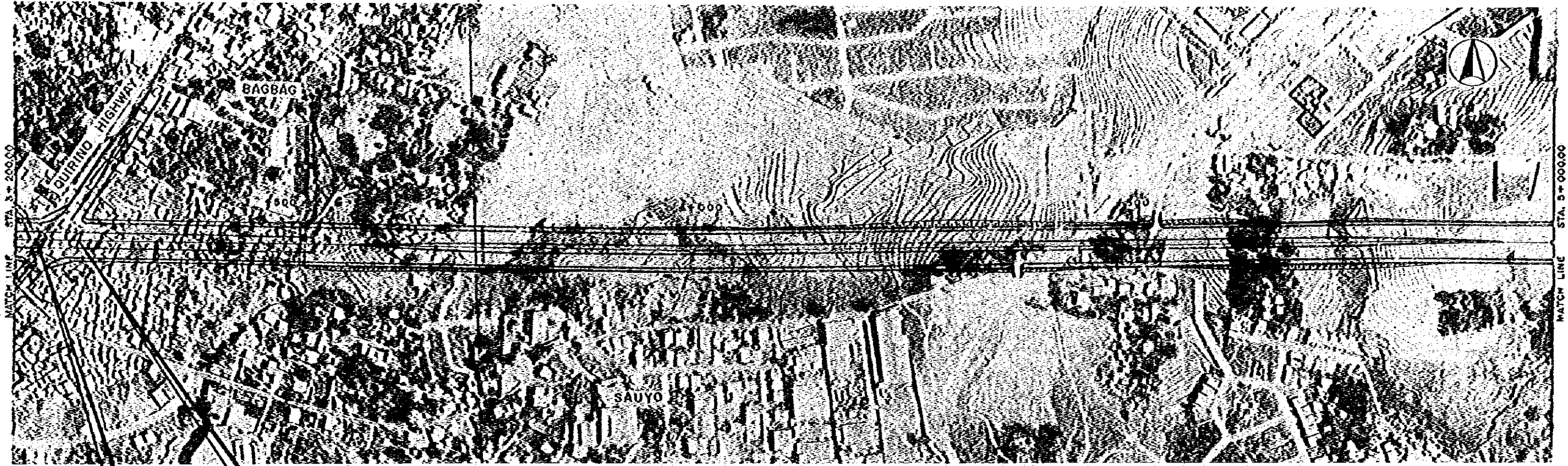




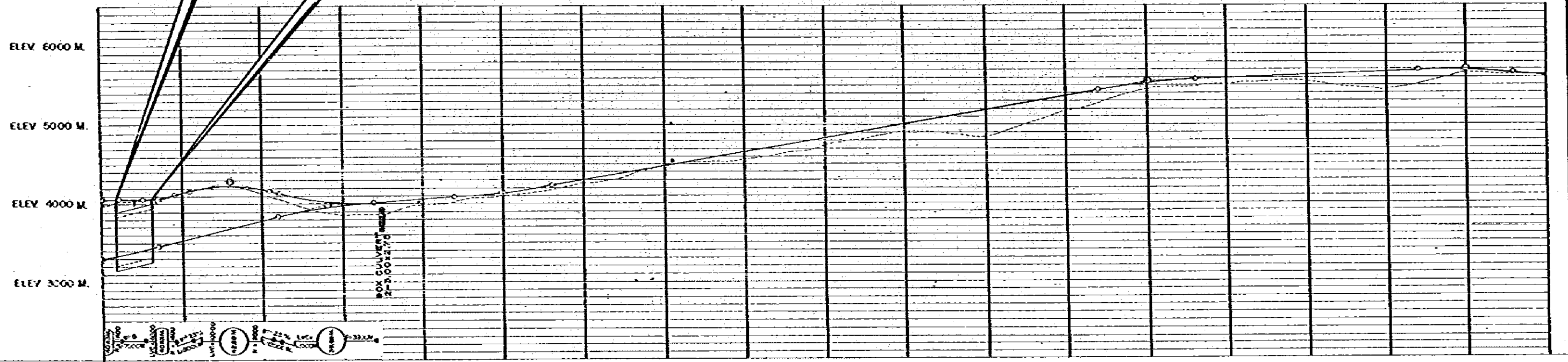
NAME: BOX NO. 1
 TYPE: R.C. BOX
 LENGTH: 56.00M.

NAME: BRIDGE NO. 4
 TYPE: P.C. COMPOSITE
 LENGTH: 25.698 M.

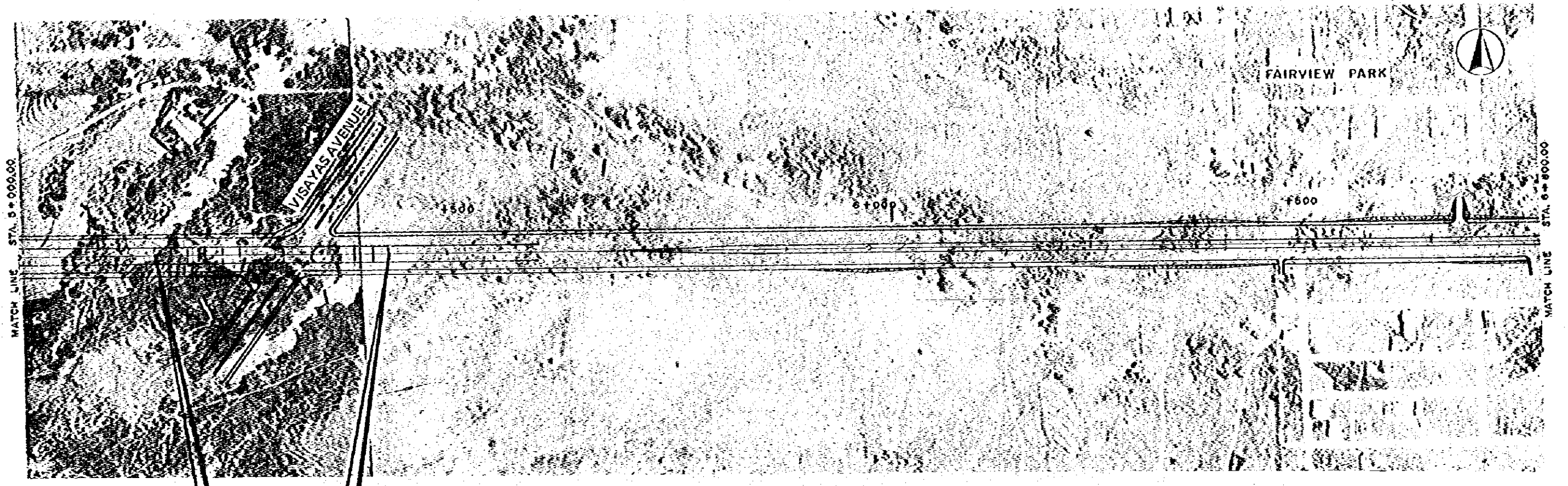




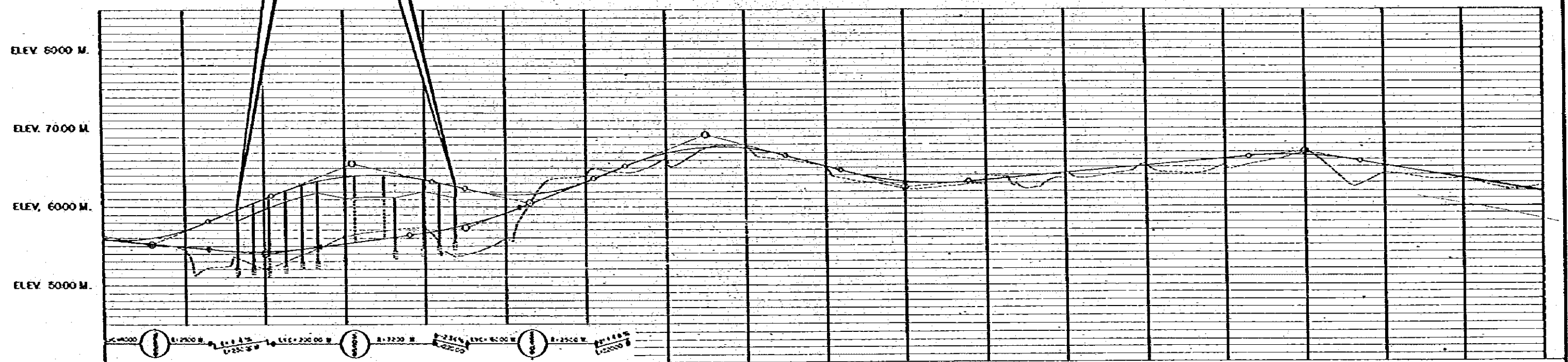
NAME: BOX NO. 2
 TYPE: R.C. BOX
 LENGTH: 42.50 M.



STATION	3 + 200	3 + 500	4 + 000	4 + 500	5 + 000
VERTICAL CURVATURE	0.84% W	1.25% W	1.25% W	1.18% W	1.25% W
HORIZONTAL CURVATURE	R = ∞	R = ∞	R = 5000	R = ∞	R = 5000

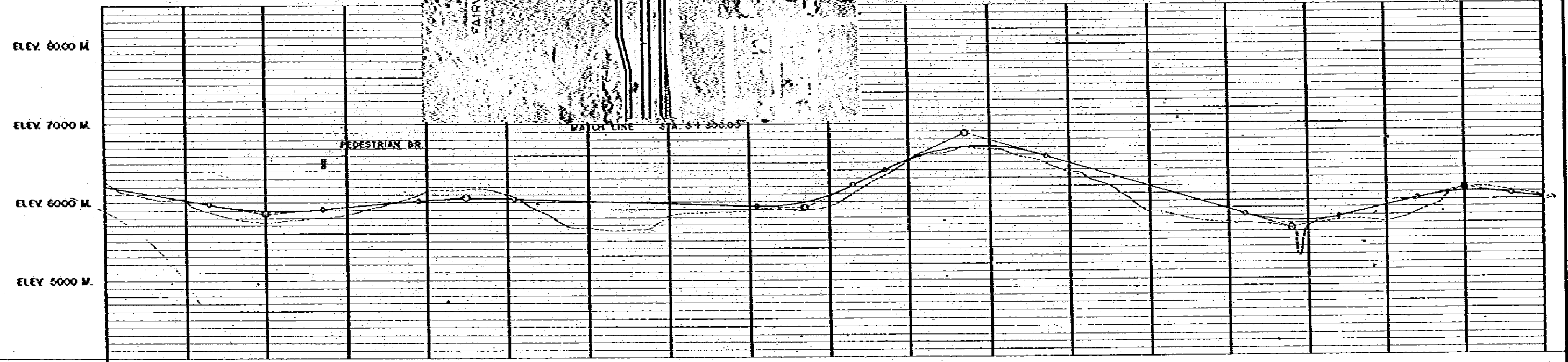
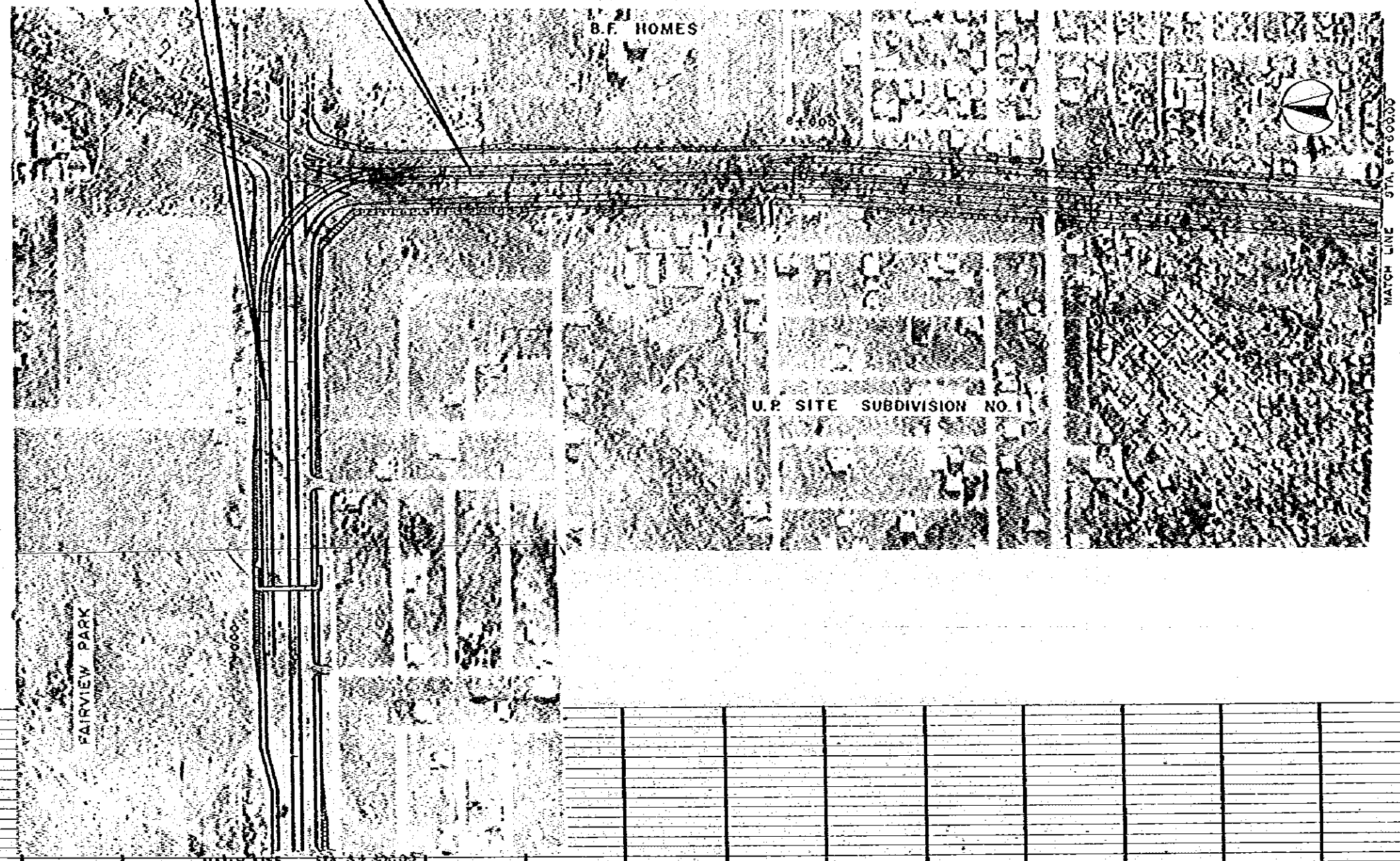


NAME: BRIDGE NO. 5
 TYPE: P.C. COMPOSITE
 LENGTH: 274.010 M.

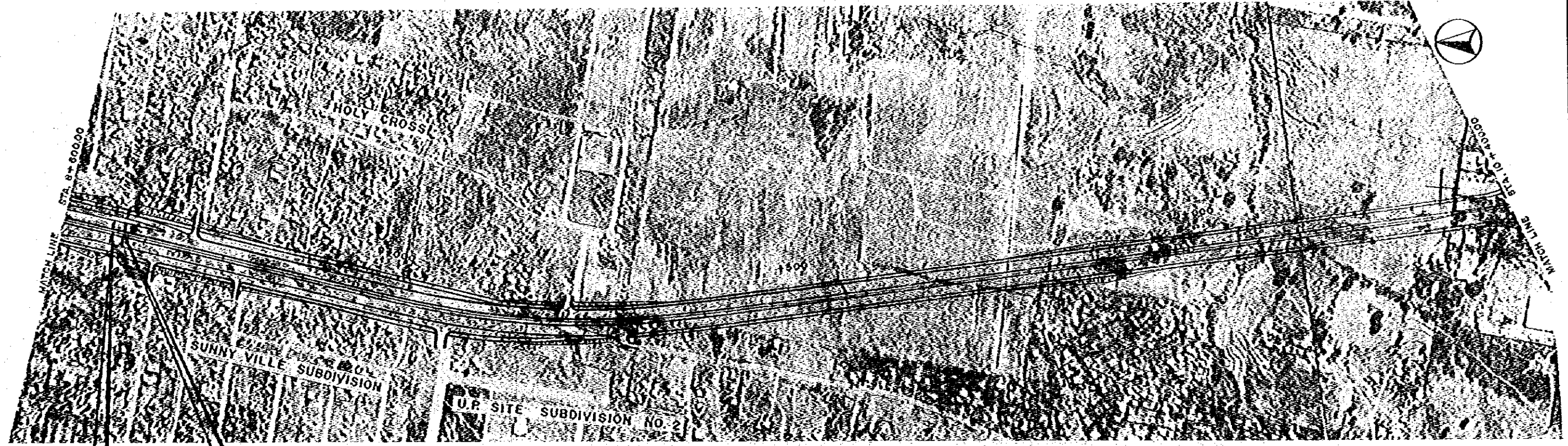


STATION	5+000	5+500	6+000	6+800	6+900
VERTICAL CURVATURE	$\frac{1.27\%}{1.30\%}$	$\frac{1.27\%}{1.30\%}$	$\frac{1.27\%}{1.30\%}$	$\frac{1.27\%}{1.30\%}$	$\frac{1.27\%}{1.30\%}$
HORIZONTAL CURVATURE					

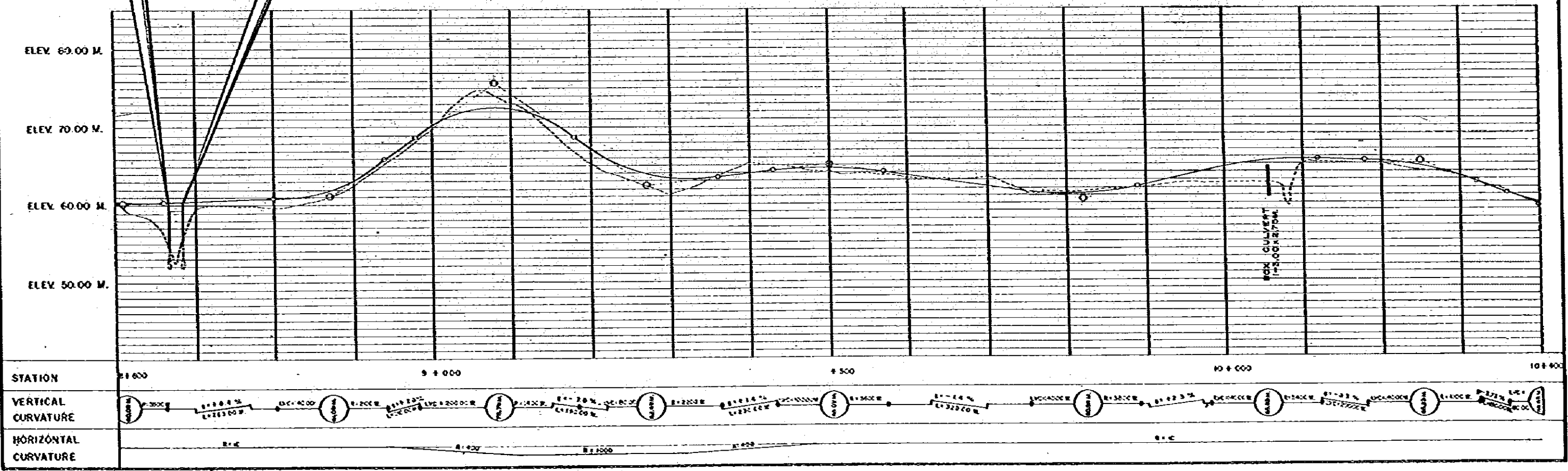
NAME: BRIDGE NO. 6
 TYPE: PC. COMPOSITE
 LENGTH: 388.00 M.

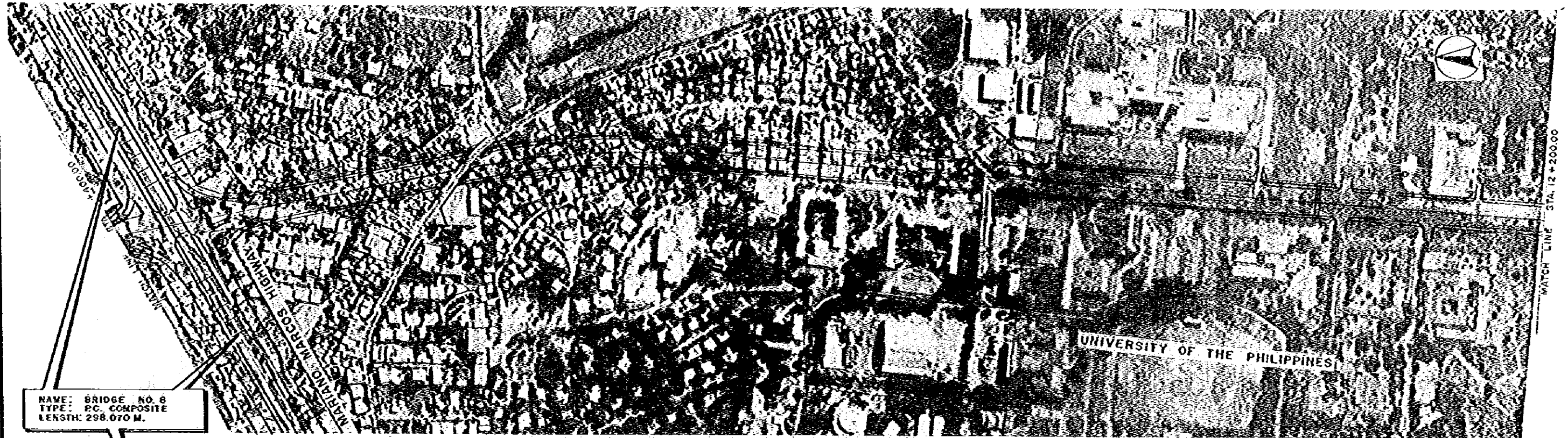


STATION	6+800	7+000	7+300	8+000	8+500	8+600
VERTICAL CURVATURE						
HORIZONTAL CURVATURE						

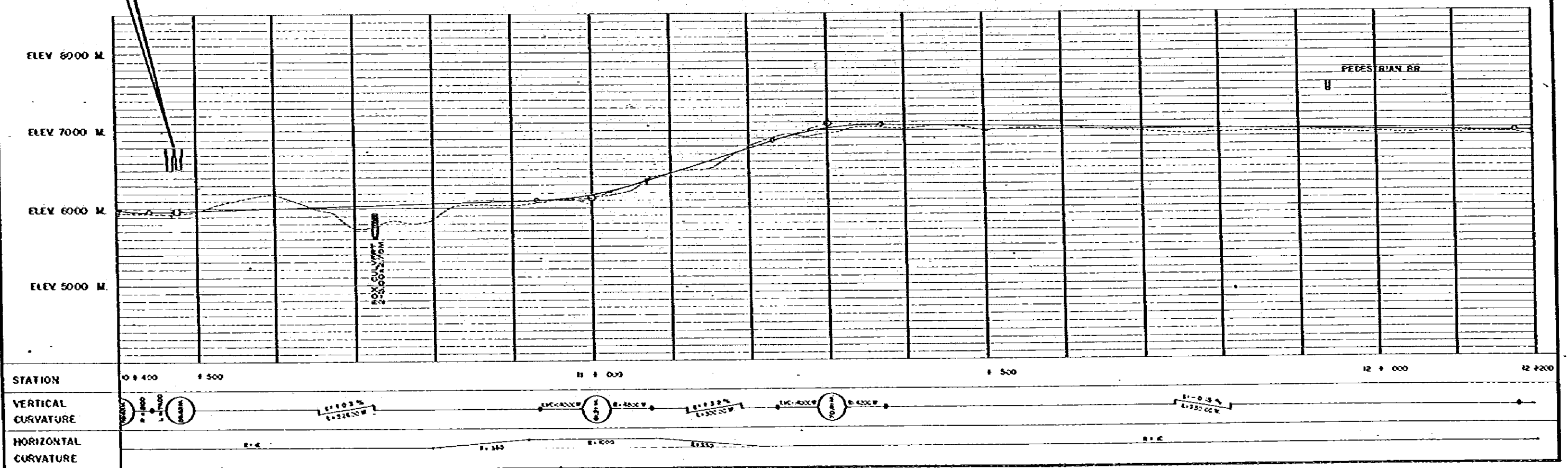


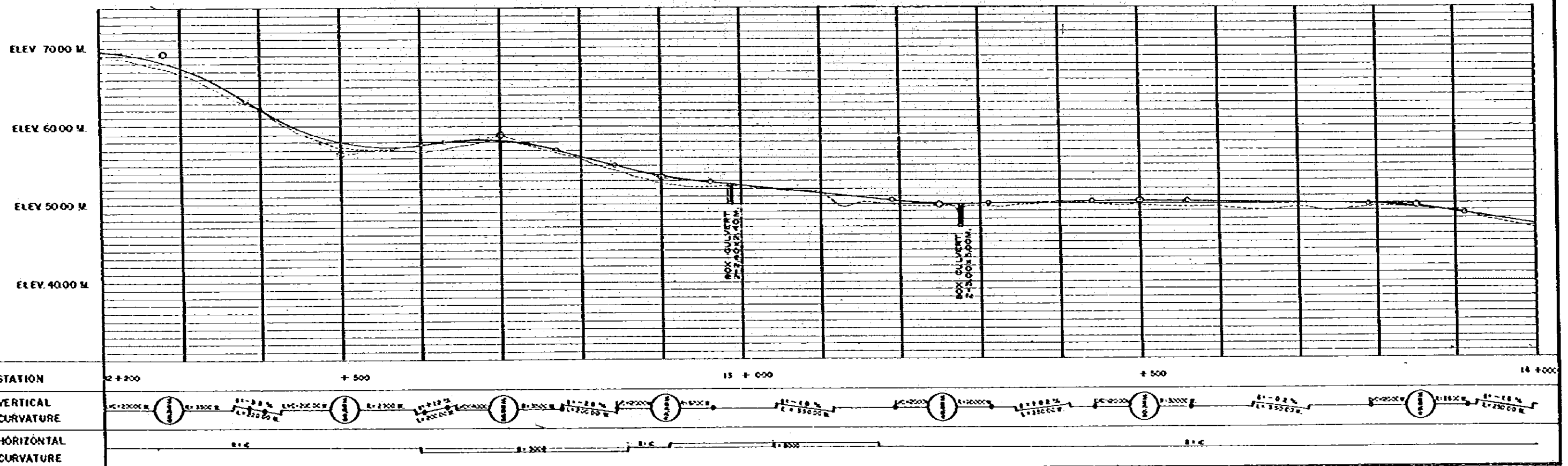
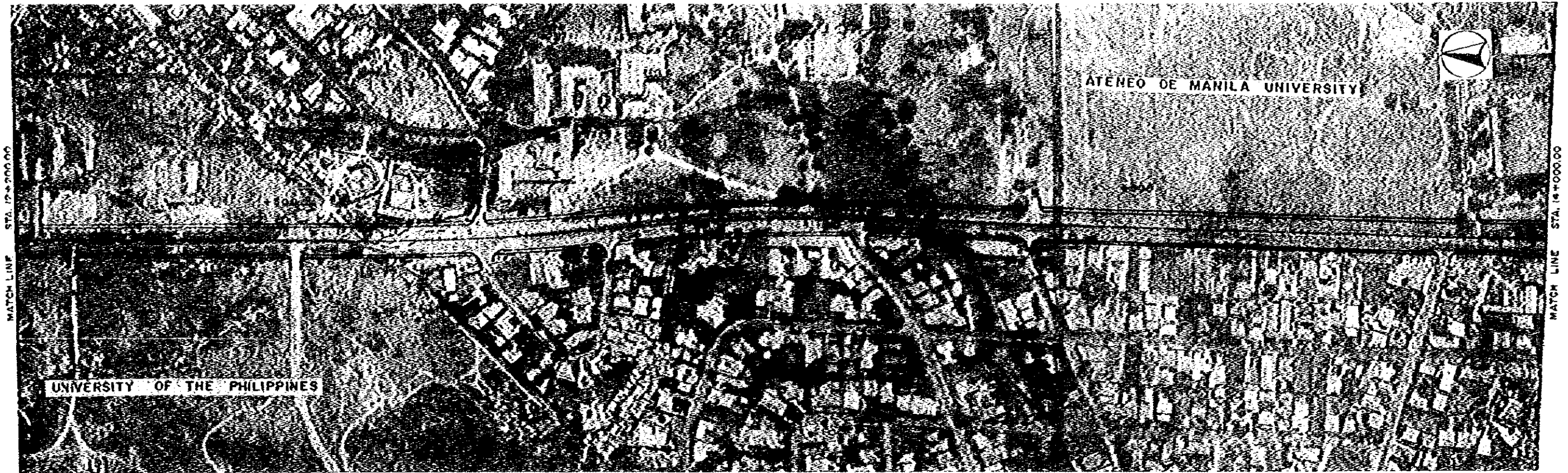
NAME: BRIDGE NO. 7
 TYPE: P.C. COMPOSITE
 LENGTH: 15.650 M.

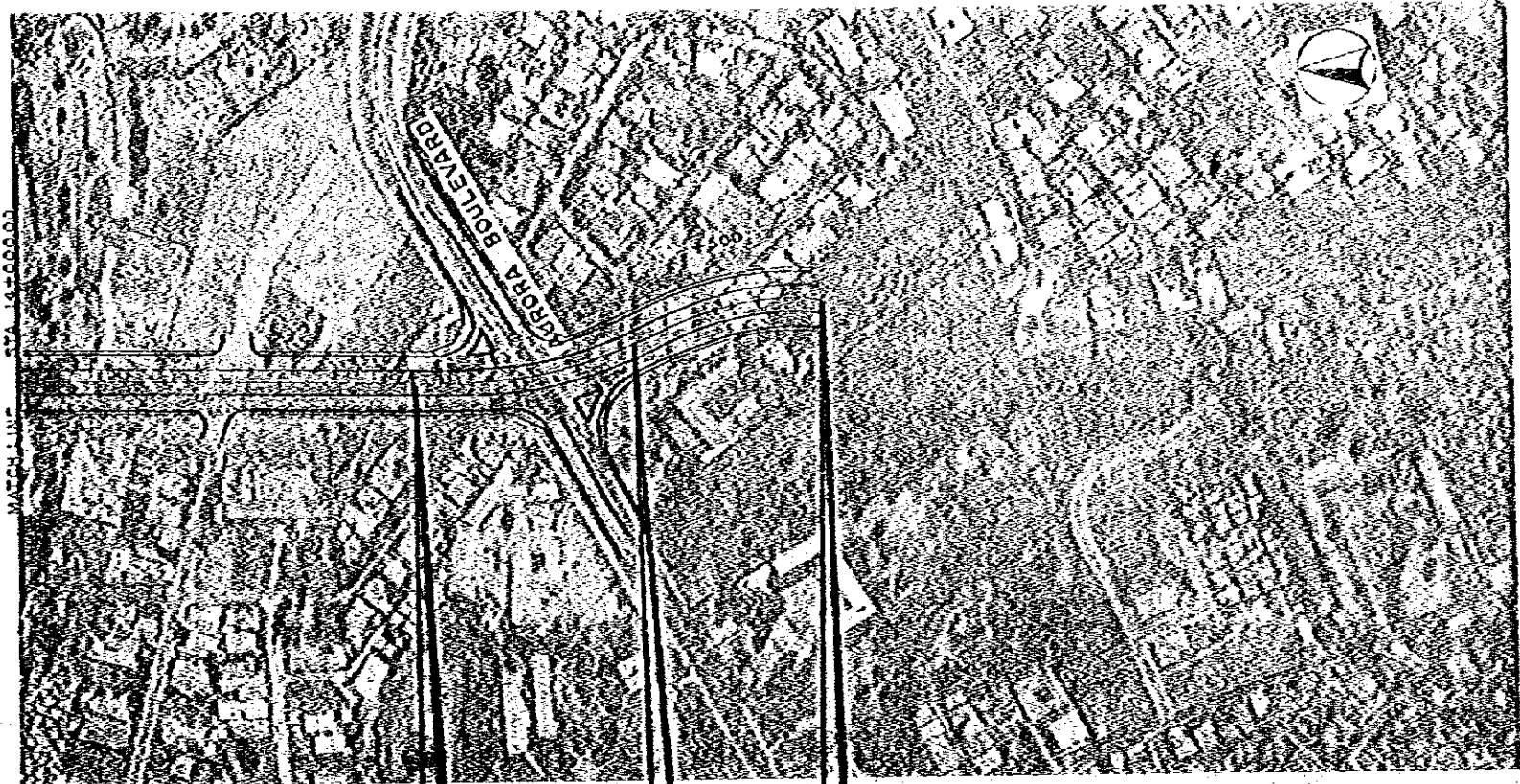




NAME: BRIDGE NO. 8
 TYPE: P.C. COMPOSITE
 LENGTH: 298.070 M.

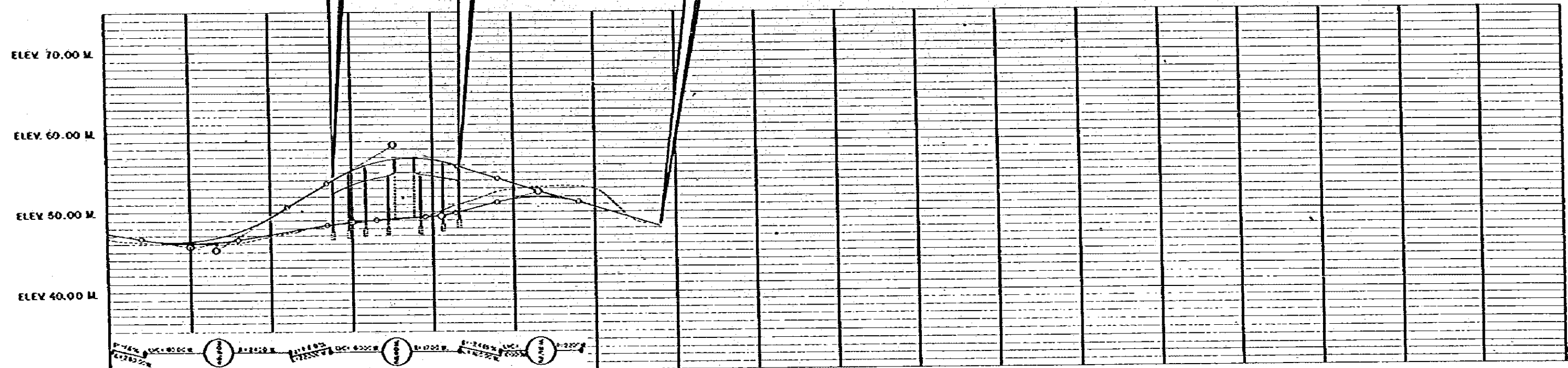




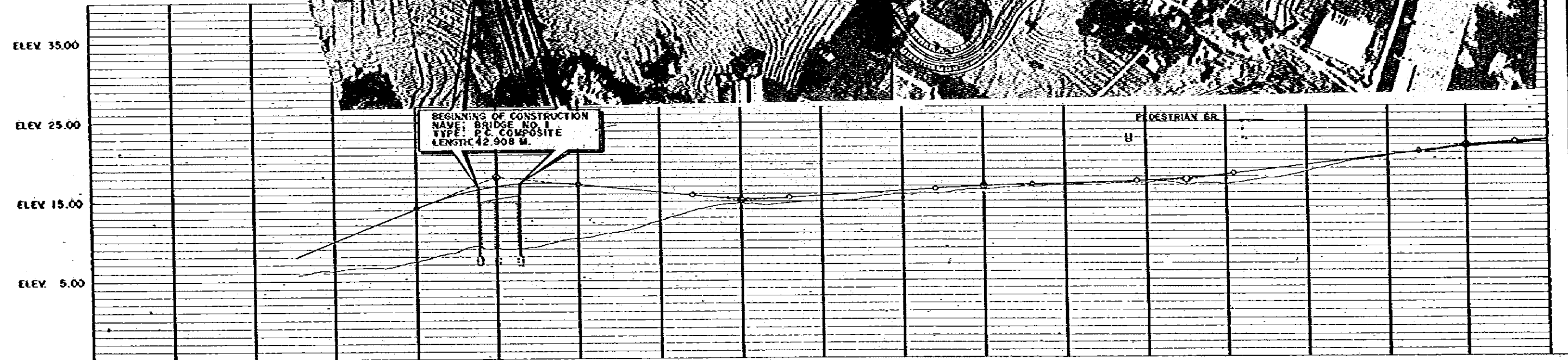
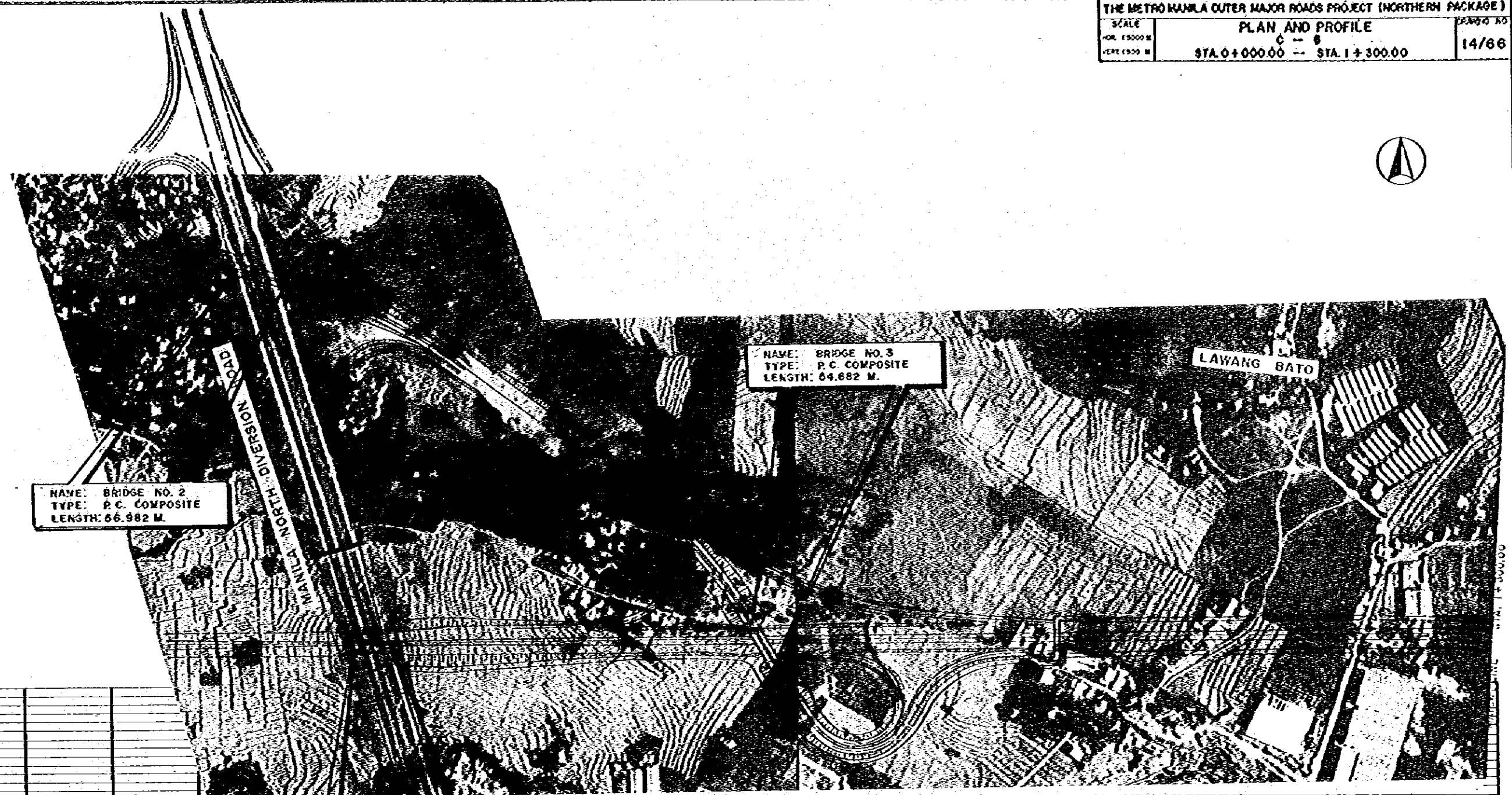


NAME: BRIDGE NO. 9
 TYPE: P.C. COMPOSITE
 LENGTH: 155.700 M

END OF CONSTRUCTION



STATION	14 + 000	14 + 500	14 + 900	11 + 700
VERTICAL CURVATURE	VC + 200 M	VC + 300 M	VC + 400 M	VC + 500 M
HORIZONTAL CURVATURE	R = 4			



STATION	0+000	0+500	1+000	1+300
VERTICAL CURVATURE				
HORIZONTAL CURVATURE				

