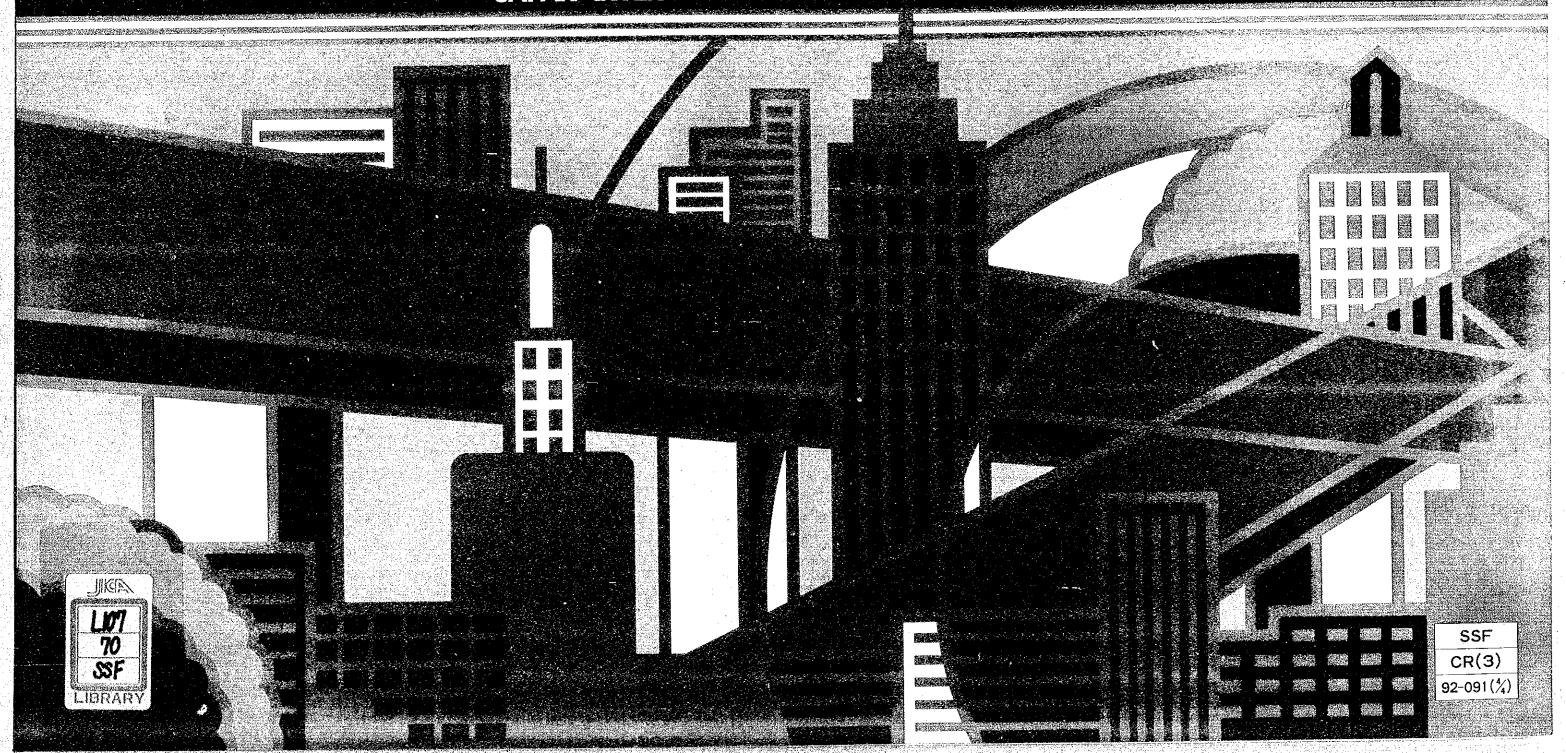
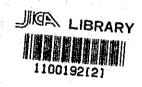
THE FEASIBILITY STUDY ON THE TRANSPORT INFRASTRUCTURE DEVELOPMENT PROJECT IN CALCUTTA

FINAL REPORT VOLUME IV
DRAWINGS

SEPTEIVIBER 1992
- JAPAN INTERNATIONAL COOPERATION AGENCY





THE FEASIBILITY STUDY ON THE TRANSPORT INFRASTRUCTURE DEVELOPMENT PROJECT IN CALCUTTA FINAL REPORT VOLUME IV DRAWINGS

SEPTEMBER 1992

JAPAN INTERNATIONAL COOPERATION AGENCY

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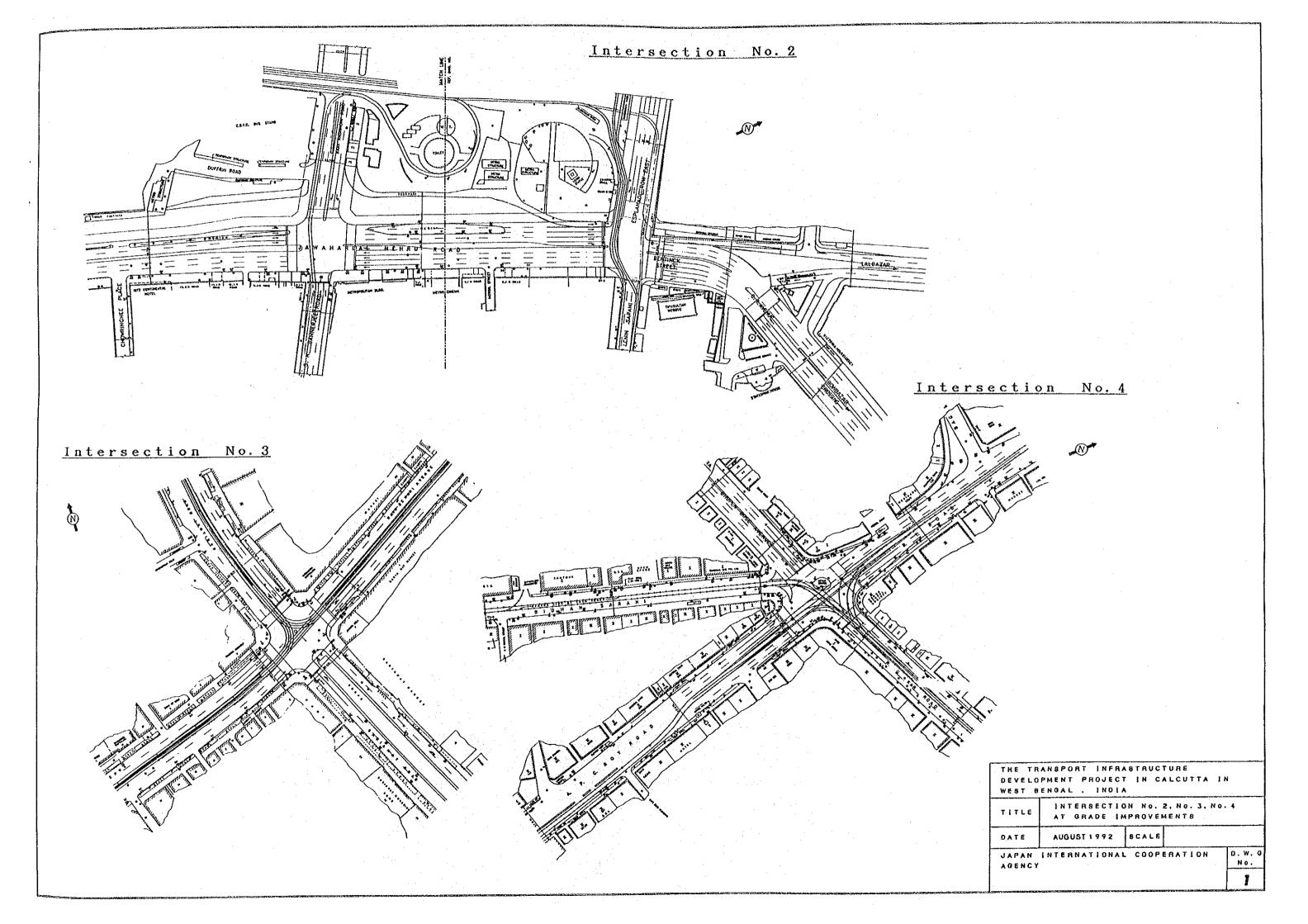
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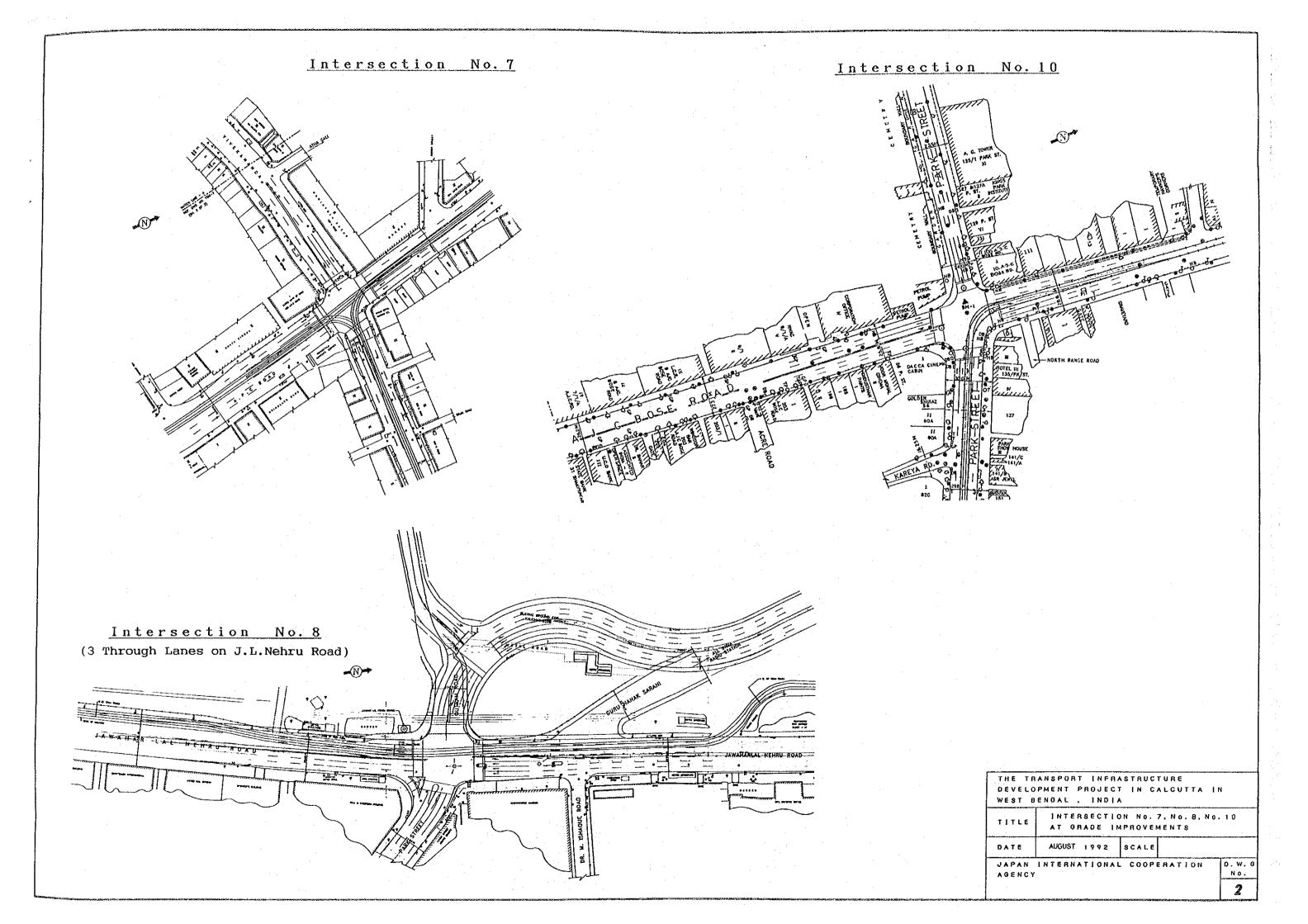
D.W.G NO

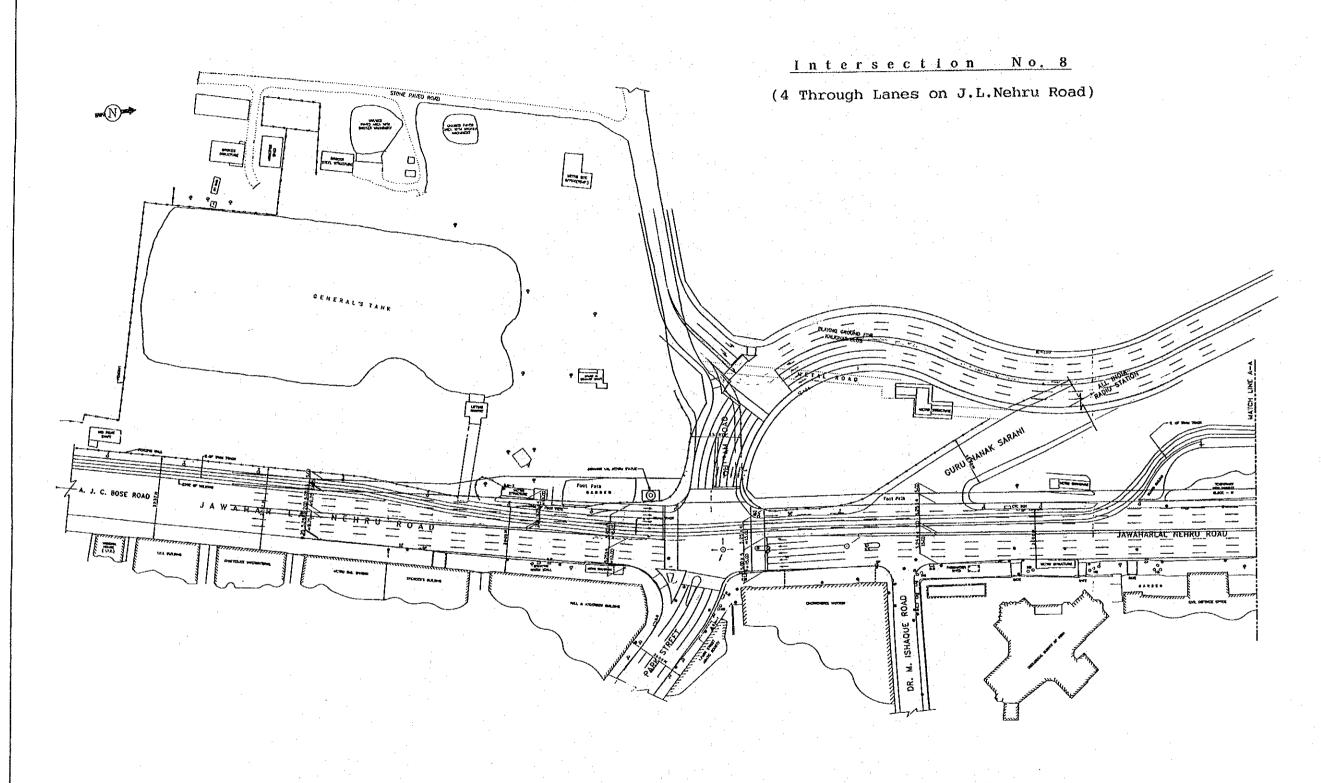
TITLE

1	INTERSECTION NO.2,3,4, AT GRADE IMPROVEMENTS
2	INTERSECTION NO.7,8,10, AT GRADE IMPROVEMENTS
2a	INTERSECTION NO.8, 4-LANE AT GRADE IMPROVEMENTS
3	INTERSECTION NO.1 NORTH-SOUTH FLYOVER
4	INTERSECTION NO.2 NORTH-SOUTH FLYOVER
5	INTERSECTION NO.3 NORTH-SOUTH FLYOVER
6	INTERSECTION NO.4 NORTH-SOUTH FLYOVER
7	INTERSECTION NO.5 WEST-EAST FLYOVER
8	INTERSECTION NO.6 WEST-EAST FLYOVER
9	INTERSECTION NO.5&6(L) WEST-EAST FLYOVER
10	INTERSECTION NO.5&6(R) WEST-EAST FLYOVER
11	INTERSECTION NO.7 NORTH-SOUTH FLYOVER
12	INTERSECTION NO.8 NORTH-SOUTH FLYOVER
13	INTERSECTION NO.9 NORTH-SOUTH FLYOVER
1.4	INTERSECTION NO.10 WEST-EAST FLYOVER
15	B.B.D.BAG UNDERGROUND PARKING STRUCTURE
16	ESPLANADE UNDERGROUND PARKING STRUCTURE
17	ESPLANADE OVERHEAD PARKING STRUCTURE

INTERSECTION IMPROVEMENT AT GRADE

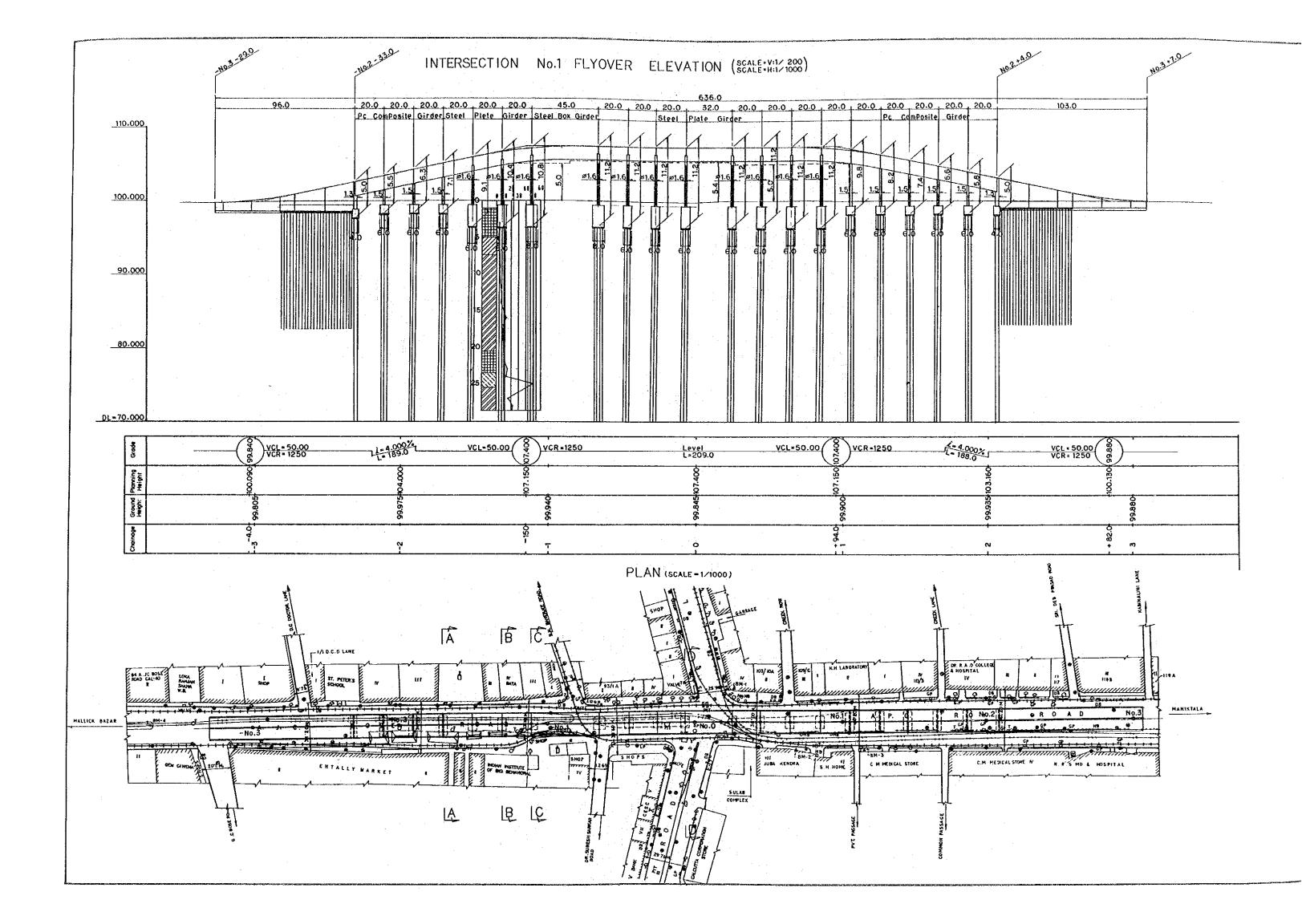


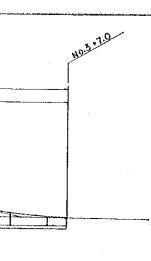




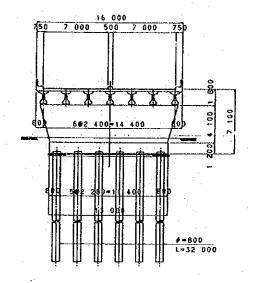
	ANSPORT INF	RASTRUCTURE CT IN CALCUTI	A IN
WEST B	ENGAL , IND	1A	
TITLE	INTERSECTIO 4-LANE AT G	N No.8 RADE IMPROVEMEN	VTS
DATE	AUGUST1992	BCALE	
JAPAN	INTERNATION	AL COOPERATIO	NO. W. O
AGENCI	•		2 a

INTERSECTION IMPROVEMENT FLYOVER

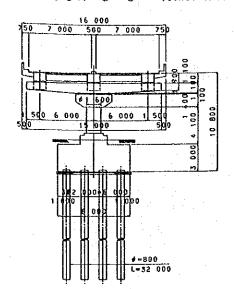




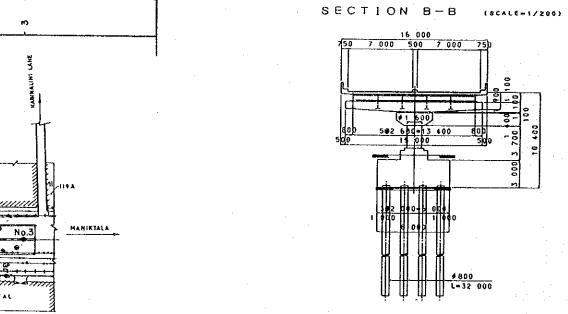
SECTION A-A (BCALE-1/200)



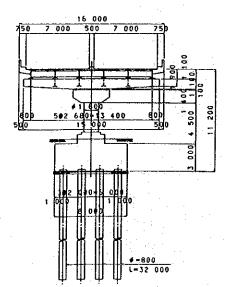
SECTION C-C (SCALENI/200)



- + 82.0- 100.130 99.880



SECTION D-D (#CALE=1/200)



DESIGN DATA

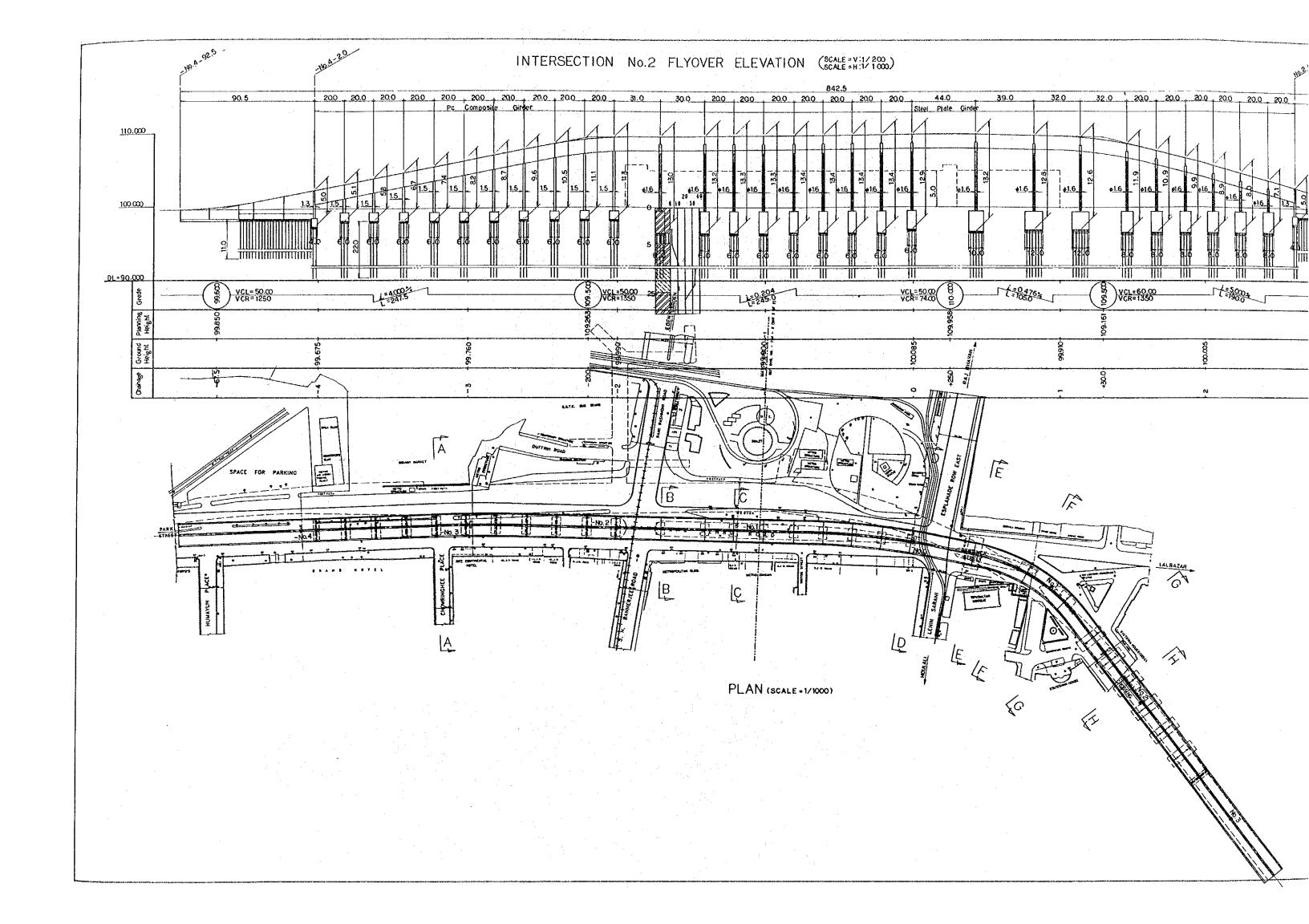
	PC BOX GIRDAR	—— м
TYPE	PC COMPOSITE GIRDER	160.00 M
	STEEL BOX GIRDER	45.00 M
<u> </u>	STEEL PLATE GIRDER	232, 00 M
TOTAL FLYOVER LENGTH	437.00 M	
CARRIAGEWAY WIDTH	14.00 M	
LIVE LOAD	CLASS-AA AND	CLASS-A
IMPACT COEFFICIENT	1=0.1≤40M, 1=0.088>40M	l=4.5/6+L
SEISMIC COEFFICIENT	C=0.06	
STANDARD	1. A. C	

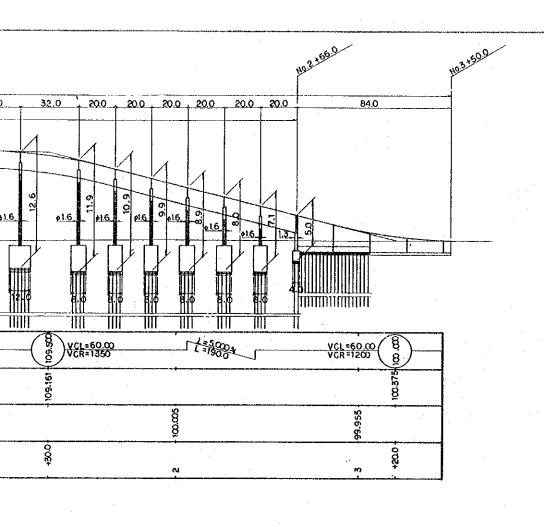
THE TRANSPORT INFRASTRUCTURE
DEVELOPMENT PROJECT IN CALCUTTA IN
WEST BENGAL , INDIA

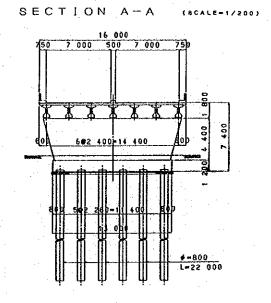
TITLE INTERSECTION NO. 1
NORTH-SOUTH FLYOVER

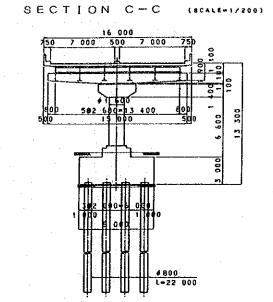
DATE AUGUST 1992 SCALE

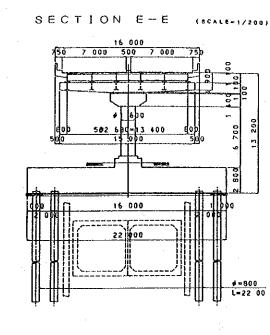
JAPAN INTERNATIONAL COOPERATION D.W. 9
NO.
3

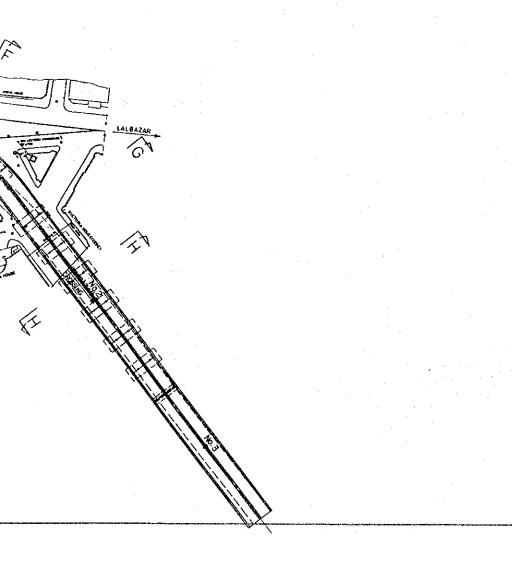


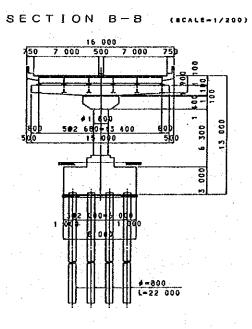


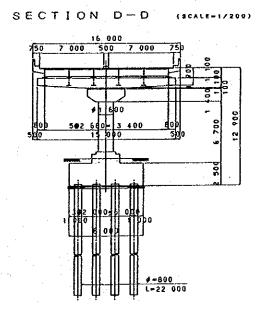


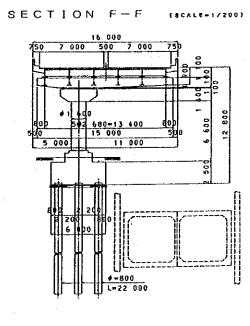




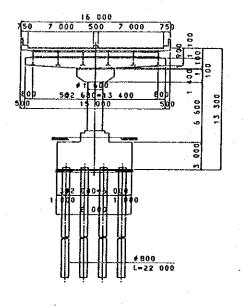




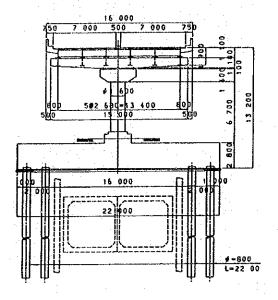




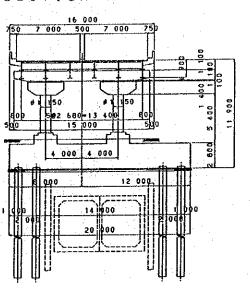
SECTION C-C (SCALE-1/200)



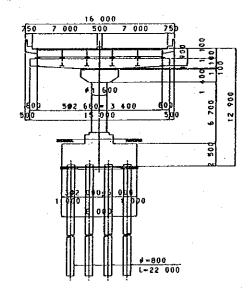
SECTION E-E (SCALE-1/200)



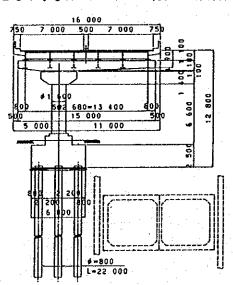
SECTION 8-9 (8CALE-1/200)



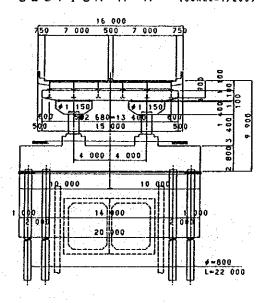
SECTION D-D (SCALE=1/200)



SECTION F-F (SCALE-1/200)



SECTION H-H (SCALE-1/200)



DESIGN DATA

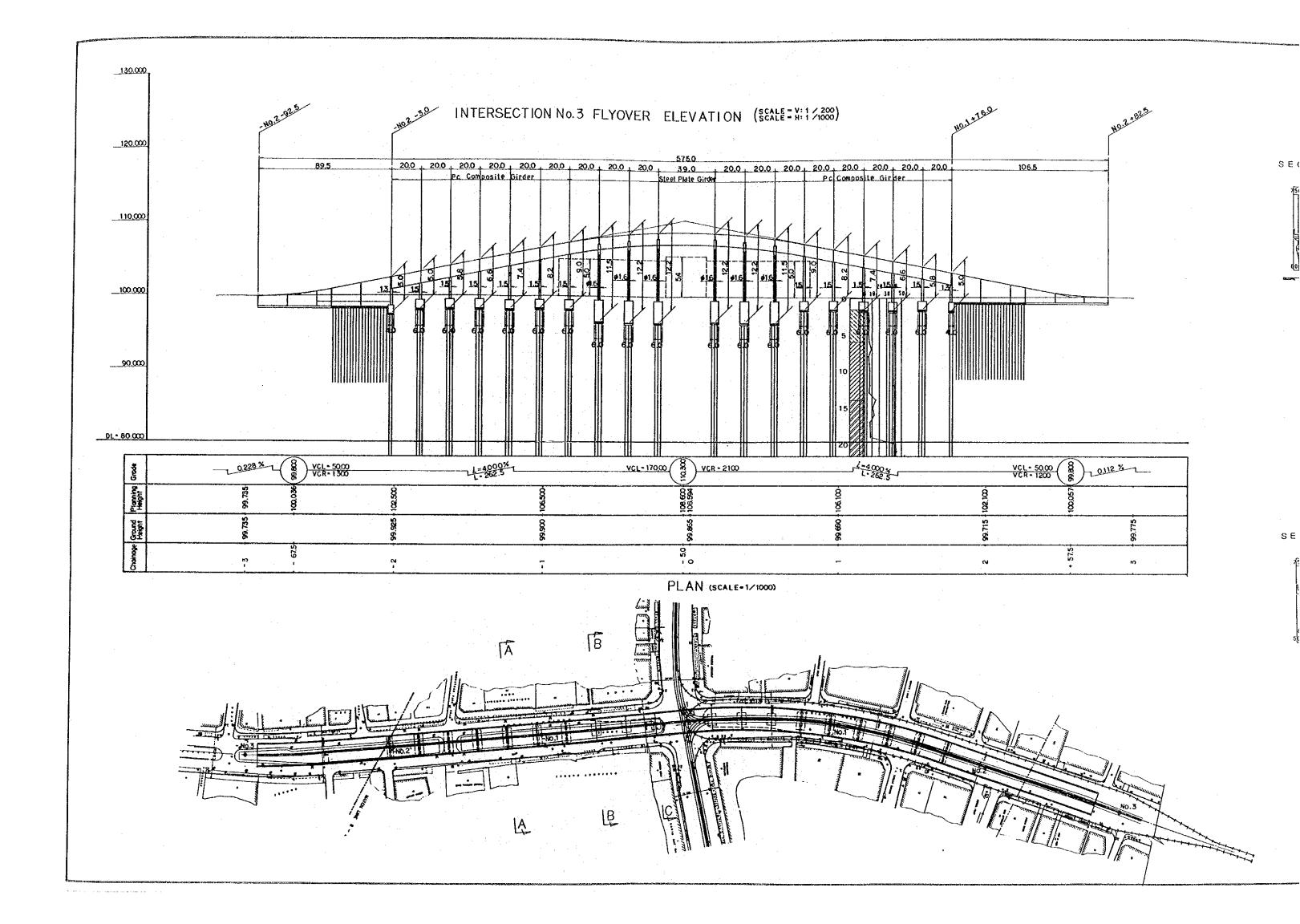
	PC BOX GIRDAR	Н
TYPE	PC COMPOSITE GIRDER	200.00 M
	STEEL BOX GIADER	— м
	STEEL PLATE GIRDER	468.00 M
TOTAL FLYOVER LENGTH	668.00 M	
CARRIAGEWAY WIDTH	14.00 M	
LIVE LOAD	CLASS-AA AND	. CLASS-A
IMPACT COEFFICIENT	I=0. 1≤40M, I=0. 088>40M	1=4.5/6+L
SEISMIC COEFFICIENT	C=0.06	
STANDARD	1, R. C	

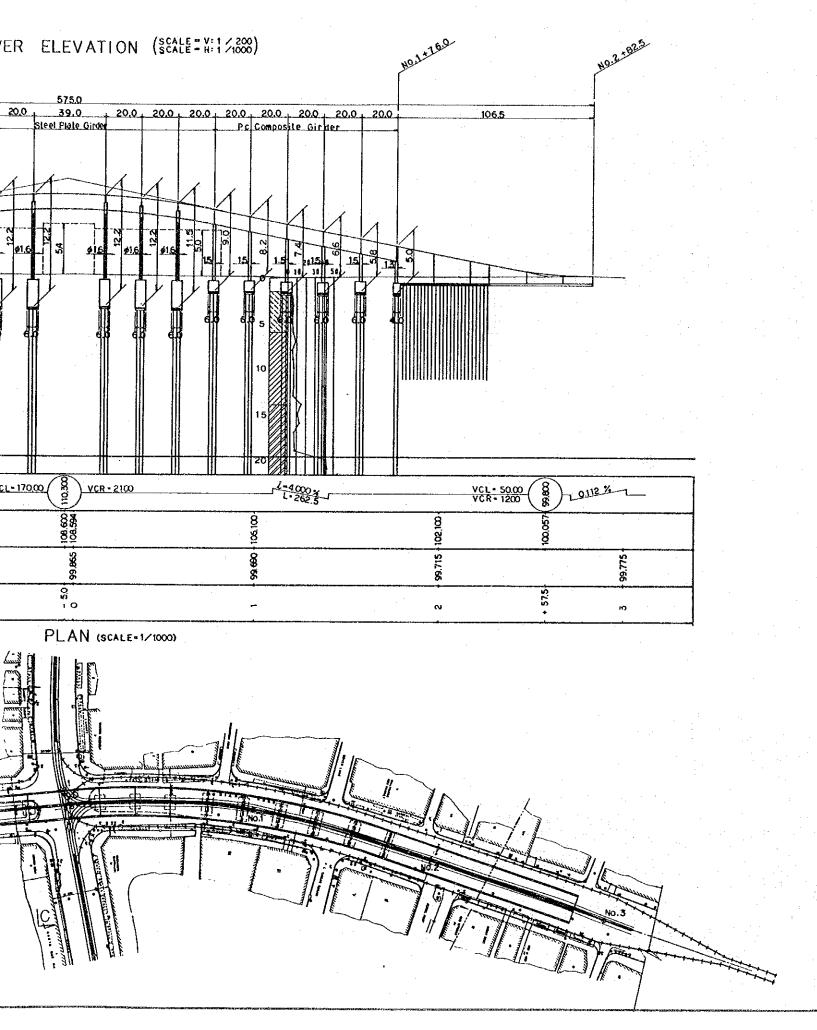
THE TR	ANSPORT INFRASTRUCTURE
DEVELO	PMENT PROJECT IN CALCUTTA IN
WEST B	ENGAL , INDIA
TITLE	INTERSECTION No. 2
	NORTH-SOUTH FLYOVER

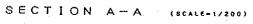
AUGUST 1992 SCALE

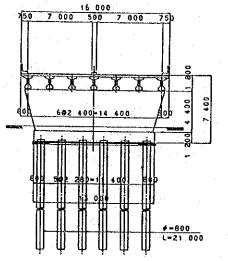
D. W. 0 JAPAN INTERNATIONAL COOPERATION AGENCY

No.

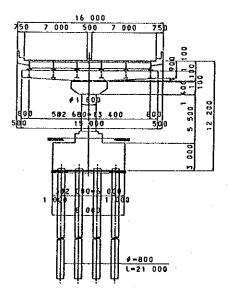




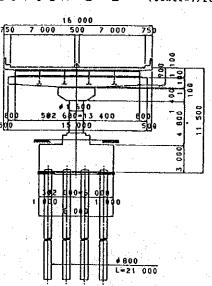




SECTION C-C (SCALE-1/200)



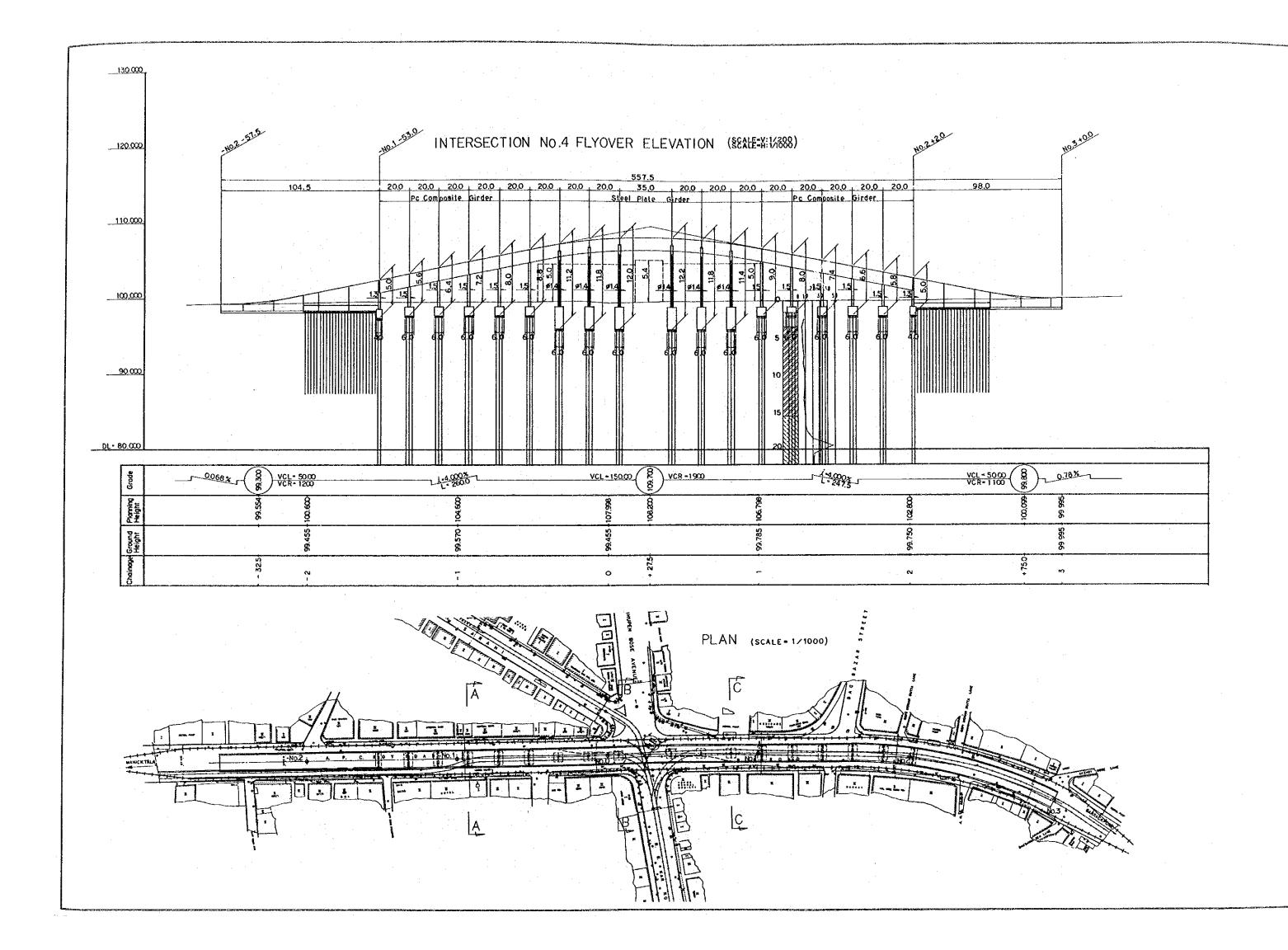
SECTION B-B (SCALE-1/200)

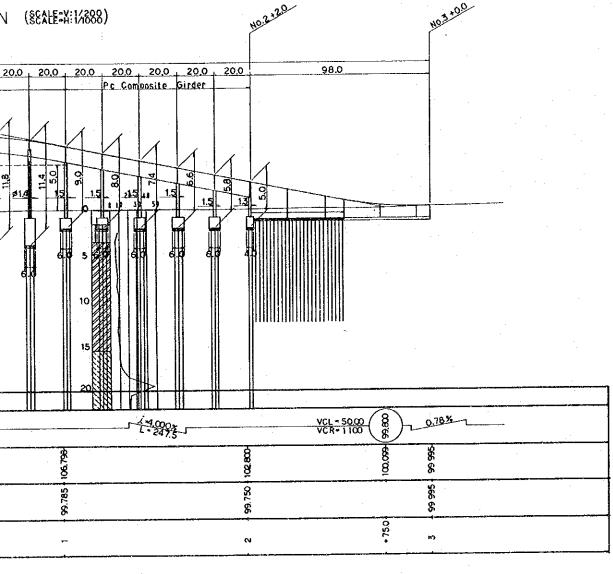


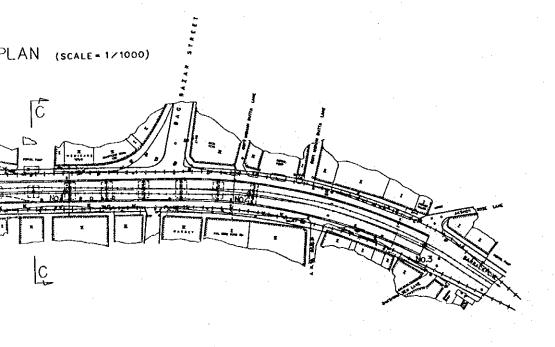
DESIGN DATA

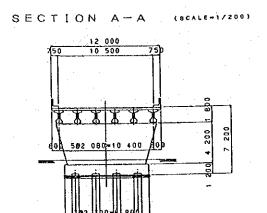
TYPE	PC BOX GIRDAR		М
	PC COMPOSITE GIR	DER	220.00 M
	STEEL BOX GIRDER		——→ M
	STEEL PLATE GIRD	ER	159.00 M
TOTAL FLYOVER LENGTH	379.	. 00 м	
CARRIAGEWAY WIDTH	14.	.00 M	
LIVE LOAD	CLASS-AA	AND	CLASS-A
IMPACT COEFFICIENT	I=0. 1≤40M, I=0. 088	3>40M	1=4.5/6+L
SEISMIC COEFFICIENT	C=0	.06	
STANDARD	i. R	. с	

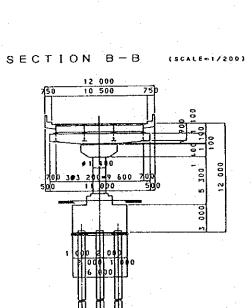
THE TR	ANSPORT INFRASTRUCTURE	
DEVELO	PMENT PROJECT IN CALCUTTA	N
WEST B	ENGAL , INDIA	
TITLE	INTERSECTION No. 3 North-south flyover	
DATE	AUGUST 1992 SCALE	
	INTERNATIONAL COOPERATION	D. W. G
ABENCY		МО.
	•	



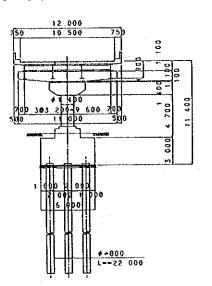


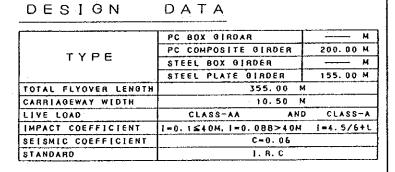




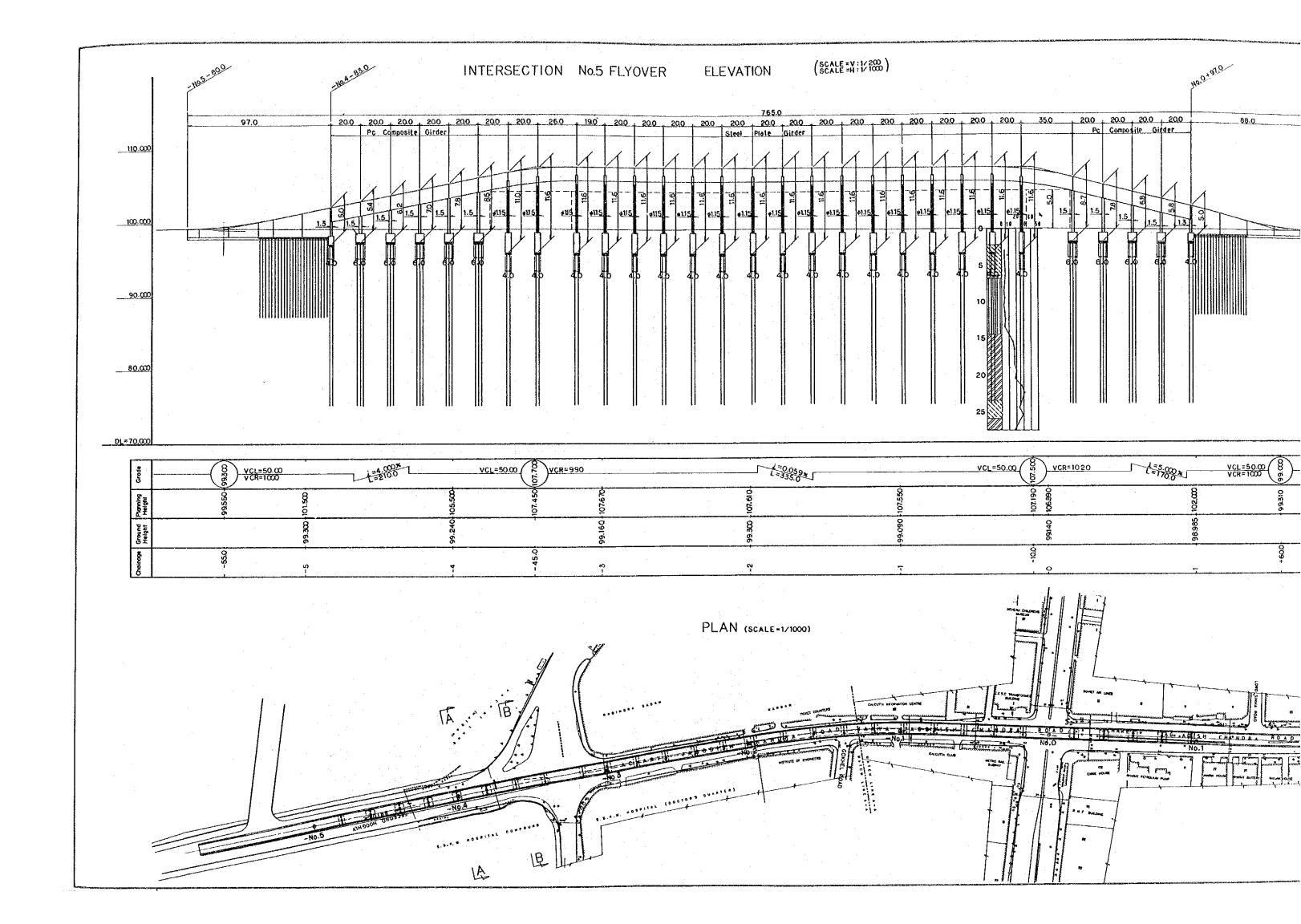


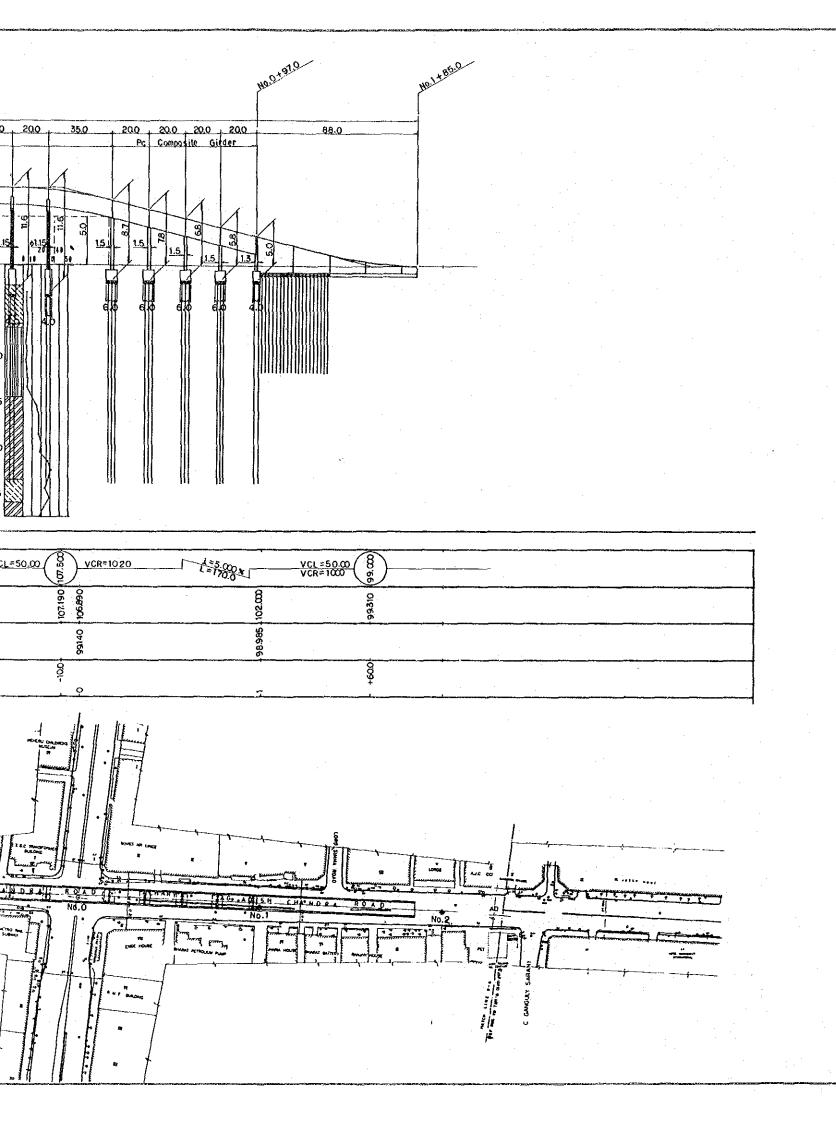
SECTION C-C (SCALE-1/200)



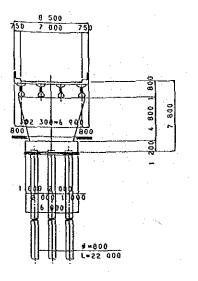


					- K
AGENCY					No.
JAPAN	INTERNA	TIONAL	. 0001	PERATION	D. W.
DATE	AUGUST	1992	SCAL	E	
	NORTH	- S O U T H	FLYO)VER	
TITLE		SECTIO			
WEST B	ENGAL ,	INDIA		· · · · · · · · · · · · · · · · · · ·	
DEVELO	PMENT P	ROJECI	T IN (CALCUTTA	I N
THE TR	ANSPORT	INFRA	STRU	CTURE	

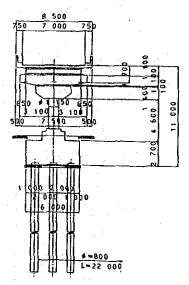




SECTION A-A (SCALE-1/200)



SECTION B-B (SCALE-1/200)



DESIGN DATA

TYPE	PC BOX GIRDAR	м
	PC COMPOSITE GIRDER	180.00 M
	STEEL BOX GIRDER	м
. The second second	STEEL PLATE GIRDER	400.00 M
TOTAL FLYOVER LENGTH	580,00 M	
CARRIAGEWAY WIOTH	7.00 M	
LIVE LOAD	CLASS-AA AND	CLASS-A
IMPACT COEFFICIENT	1=0.1≤40M, 1=0.088>40M	1=4.5/6+L
SEISMIC COEFFICIENT	C=8.06	
STANDARD	I. A. C	

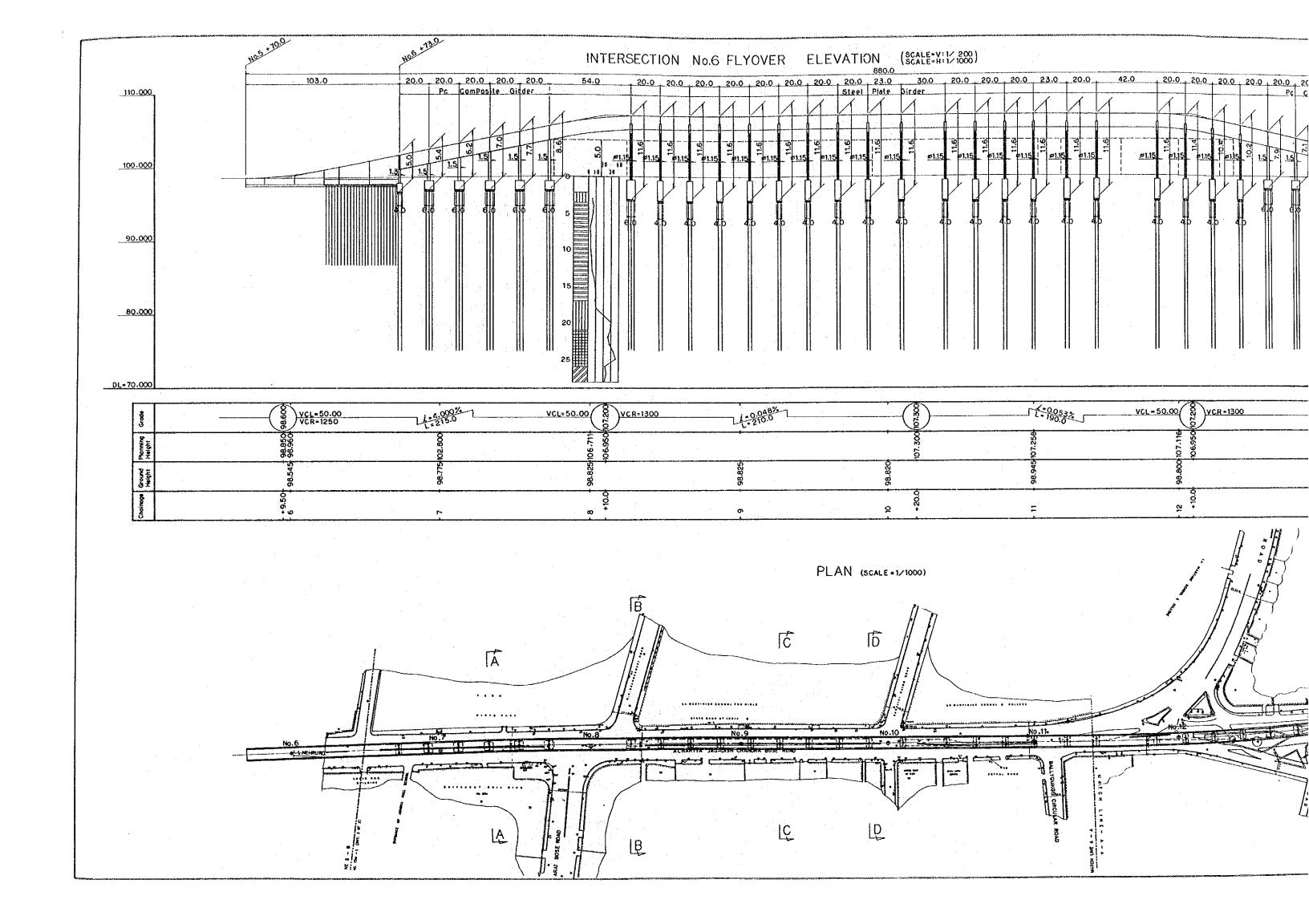
THE TRANSPORT INFRASTRUCTURE
DEVELOPMENT PROJECT IN CALCUTTA IN
WEST BENGAL , INDIA

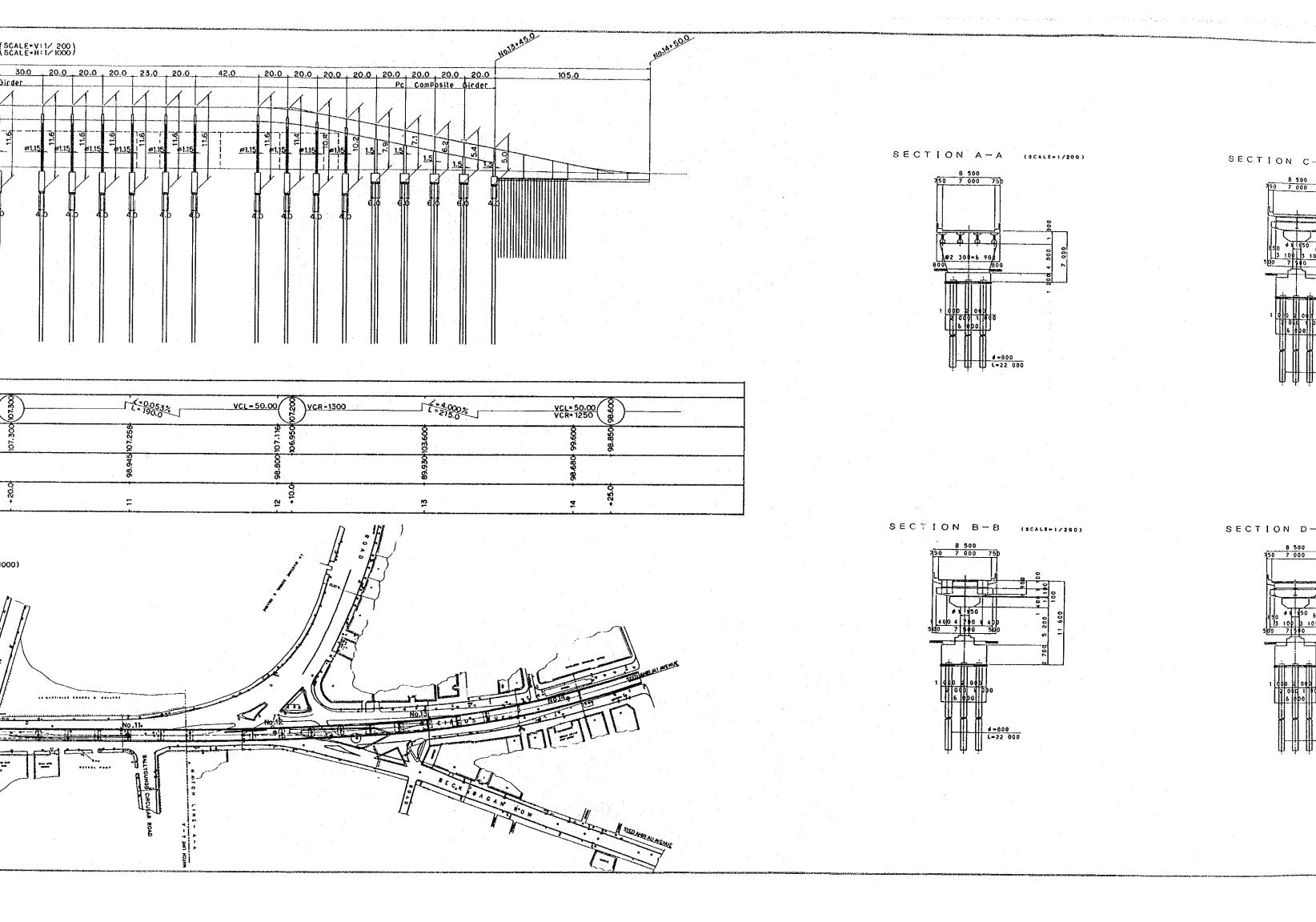
TITLE INTERSECTION NO. 5
WEST-EAST FLYOVER

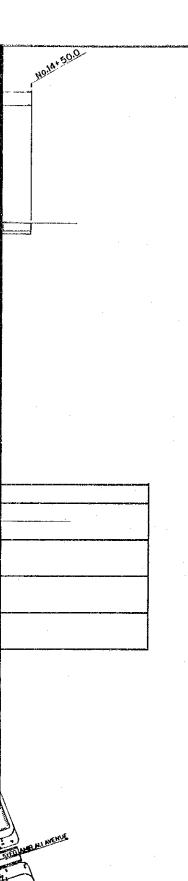
DATE AUGUST 1992 SCALE

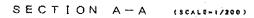
JAPAN INTERNATIONAL COOPERATION NO.

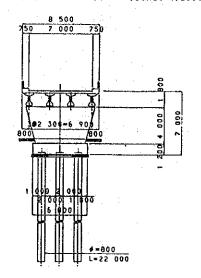
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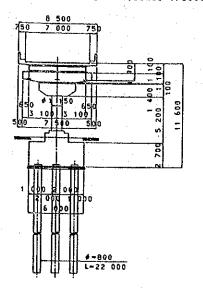




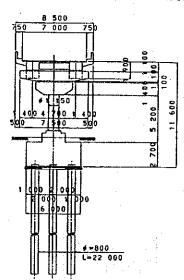




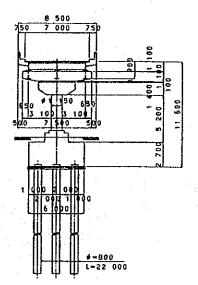
SECTION C-C (SCALE-1/200)



SECTION B-B (SCALE-1/200)



SECTION D-D (SCALE-1/280)



DESIGN DATA

	PC BOX GIRDAR		M
T V 5 5	PC COMPOSITE GIRDER	180.00	М
TYPE	STEEL BOX GIRDER	54.00	М
	STEEL PLATE GIRDER	438.00	М
TOTAL FLYOVER LENGTH	672.00 M	· · · · · · · · · · · · · · · · · · ·	
CARRIAGEWAY WIDTH	7.00 M		
LIVE LOAD	CLASS-AA AND	CLASS-	- A
IMPACT COEFFICIENT	I=0. 1≤40M, I=0. 088>40M	1-4.5/6	۴Ł
SEISMIC COEFFICIENT	C=0.06		
STANDARD	І, Я. С		-

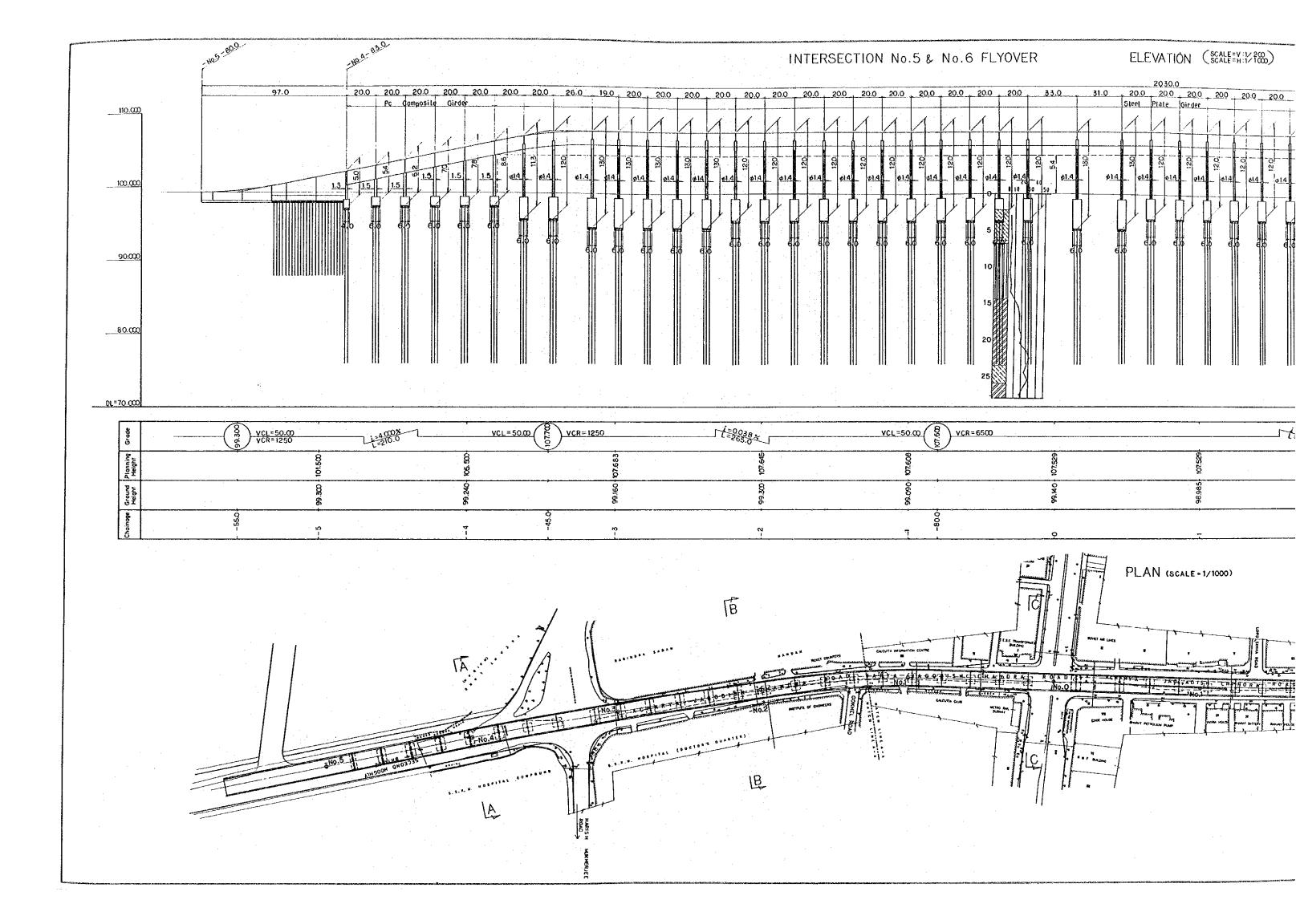
THE TRANSPORT INFRASTRUCTURE
DEVELOPMENT PROJECT IN CALCUTTA IN
WEST BENGAL . INDIA

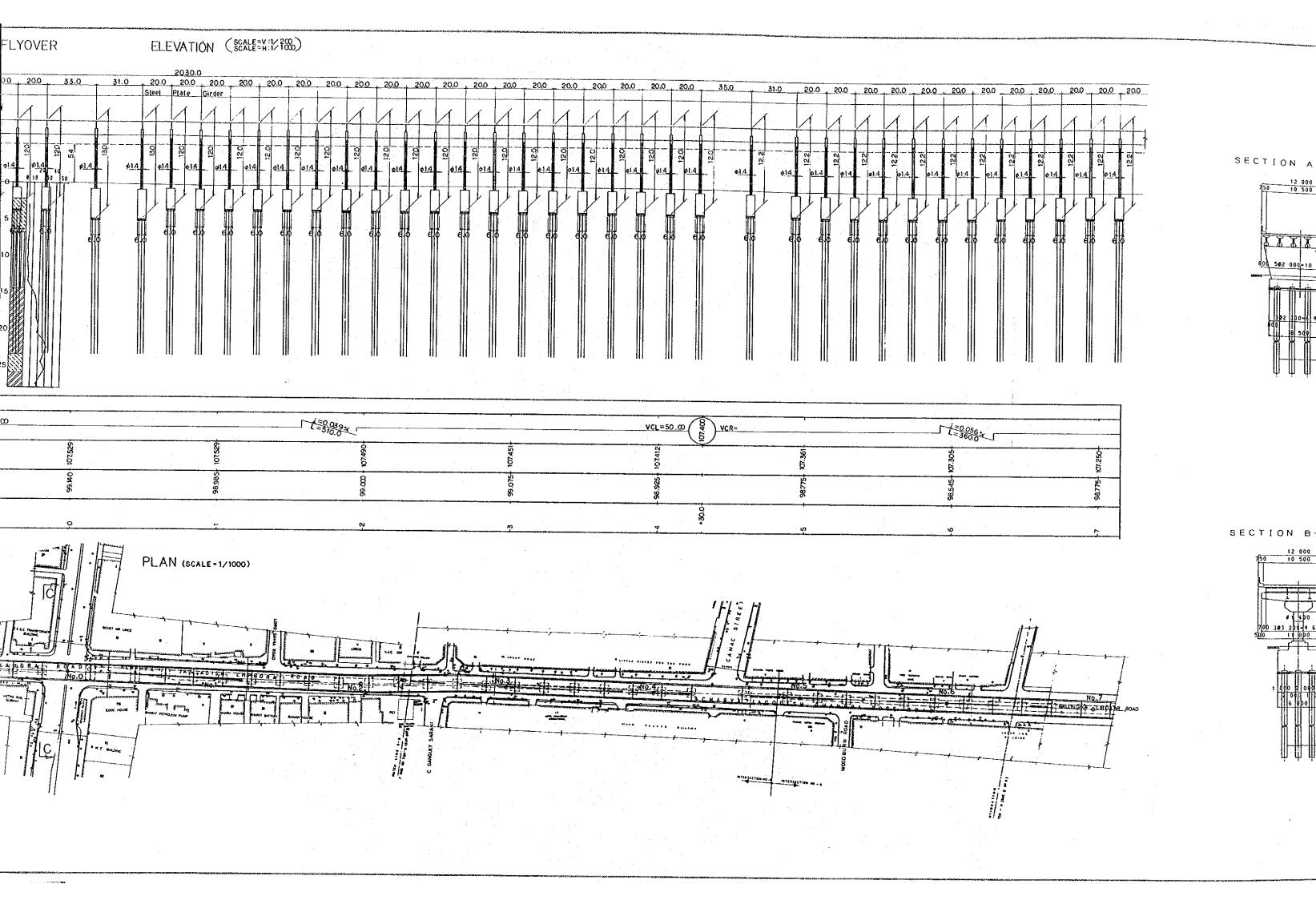
TITLE INTERSECTION NO. 6
WEST-EAST FLYOVER
DATE AUGUST 1992 SCALE

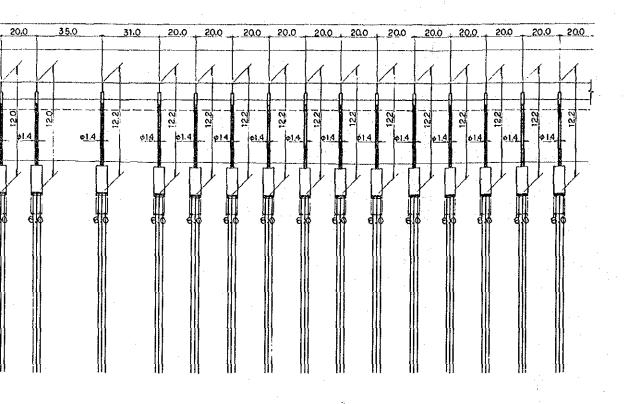
JAPAN INTERNATIONAL COOPERATION AGENCY

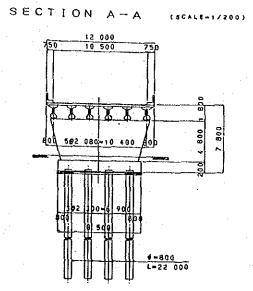
D. W. G

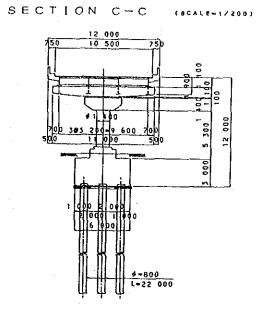


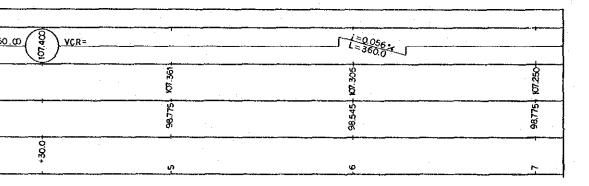


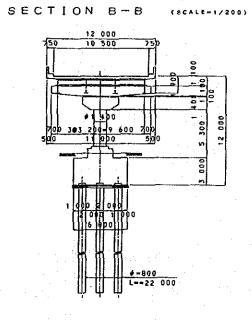








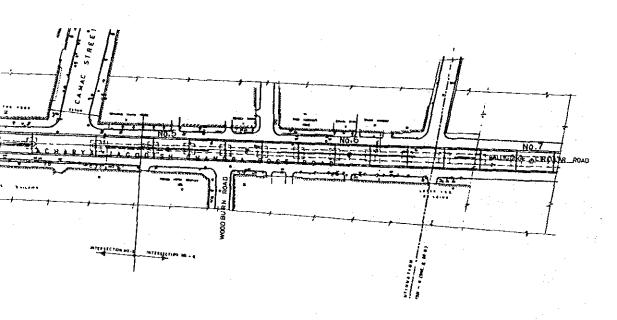


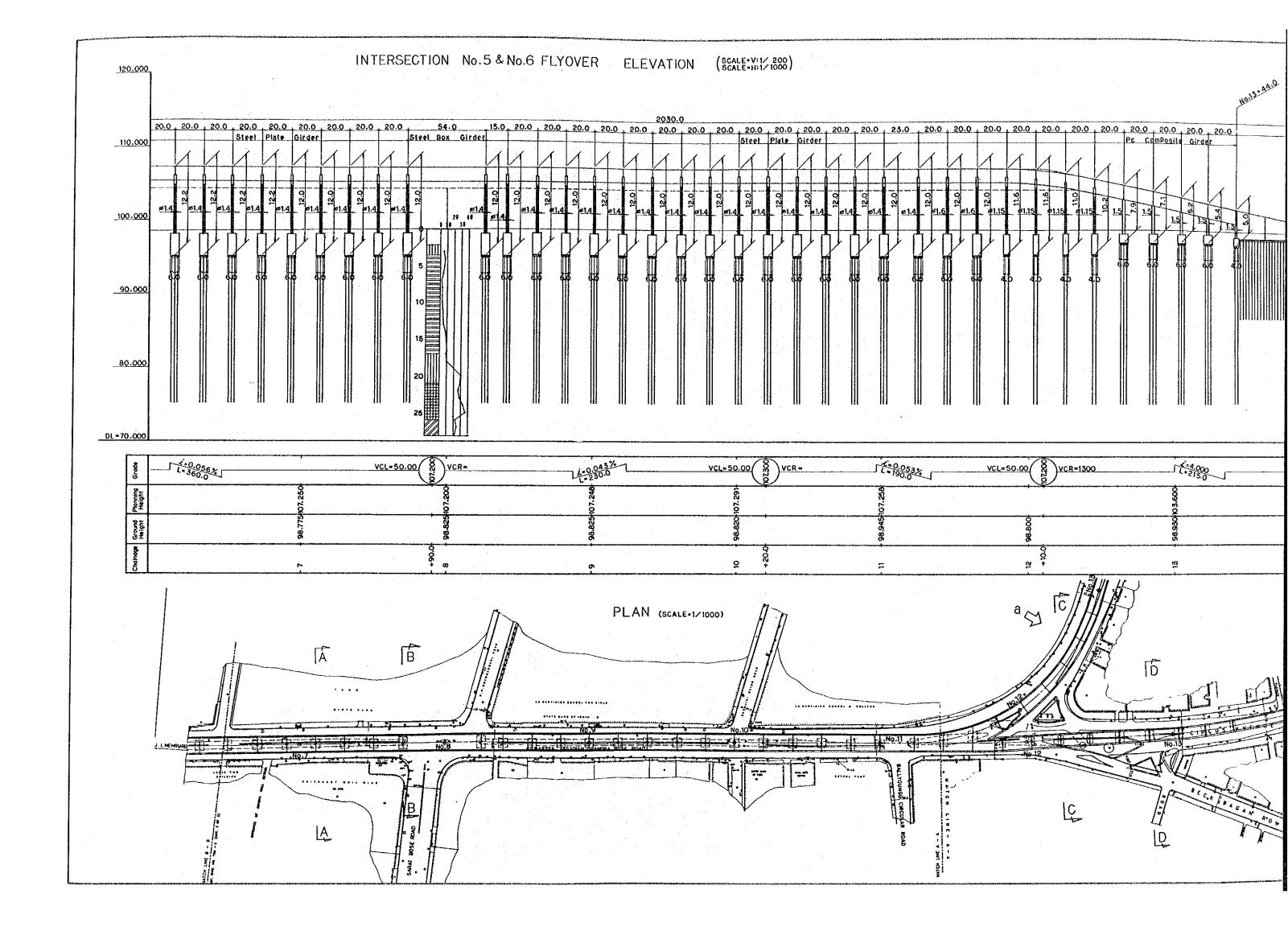


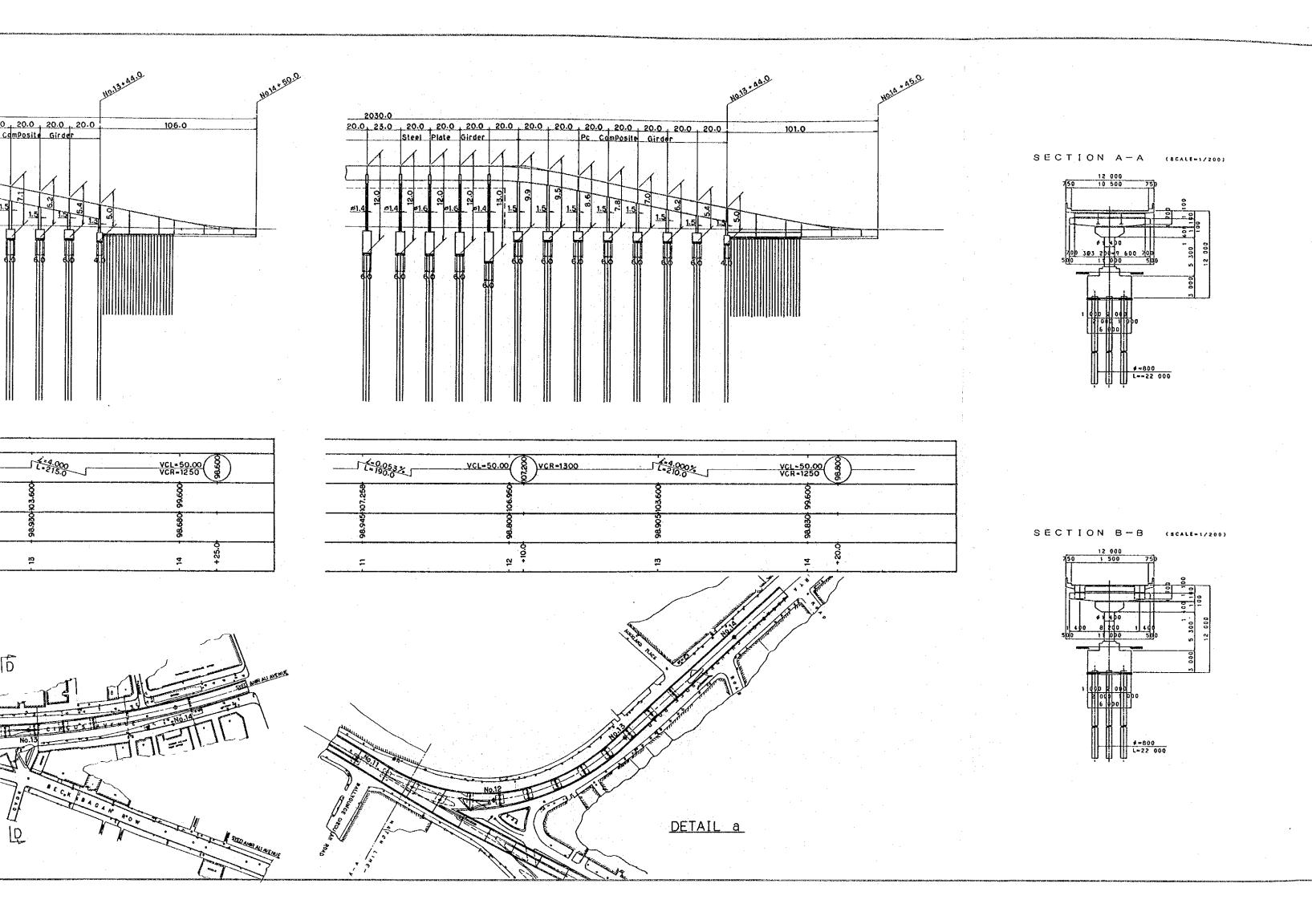
DESIGN DATA

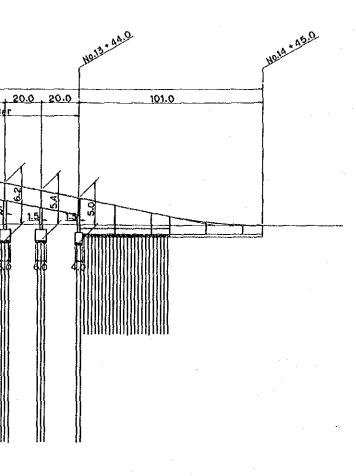
	PC BOX GIRDAR	— н
TYPE	PC COMPOSITE GIRDER	340.00 M
	STEEL BOX GIRDER	54.00 M
	STEEL PLATE GIRDER	1613.00 M
TOTAL FLYOVER LENGTH	2007.00 M	
CARRIAGEWAY WIDTH	10.50 M	
LIVE LOAD	CLASS-AA AND	CLASS-A
IMPACT COEFFICIENT	1=0.1≤40M, I=0.086>40M	1=4.5/6+L
SEISMIC COEFFICIENT	C=0.06	
STANDARD	I. A. C	

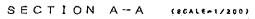
THE TR	ANSPORT INFRASTRUCTURE	
DEVELO	PMENT PROJECT IN CALCUTTA	И
WEST 8	ENGAL , INDIA	
	INTERSECTION No. 5&No. 6	
TITLE	WEST-EAST FLYOVER	
DATE	AUGUST 1992 SCALE	
JAPAN	INTERNATIONAL COOPERATION	D. W.
ABENCY		H O
		مما

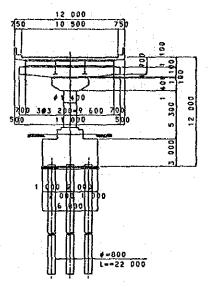




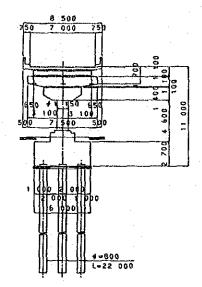


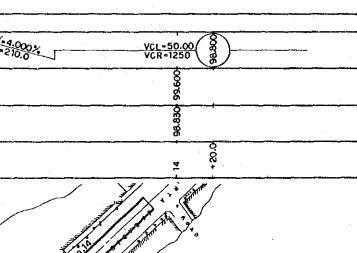




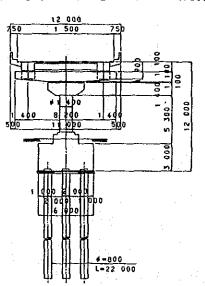


SECTION C-C (CALE-1/200)

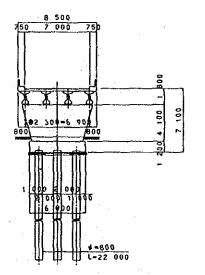




SECTION B-B (SCALE-1/200)



SECTION D-D (SCALE-1/200)



DESIGN DATA

TYPE	PC BOX GIRDAR	М			
	PC COMPOSITE GIRDER	340.00 M			
	STEEL BOX GIRDER	54.00 M			
	STEEL PLATE GIRDER	1613.00 M			
TOTAL FLYOVER LENGTH	2007.00 M				
CARRIAGEWAY WIDTH	10.50, 14.00, 7.00 M				
LIVE LOAD	CLASS-AA AND	CLASS-A			
IMPACT COEFFICIENT	1=0.1≤40M, I=0.088>40M	1=4.5/6+1			
SEISMIC COEFFICIENT	C=0.06				
STANDARD	I. A. C				

DETAIL a

THE TRANSPORT INFRASTRUCTURE
DEVELOPMENT PROJECT IN CALCUTTA IN
WEST BENGAL , INDIA

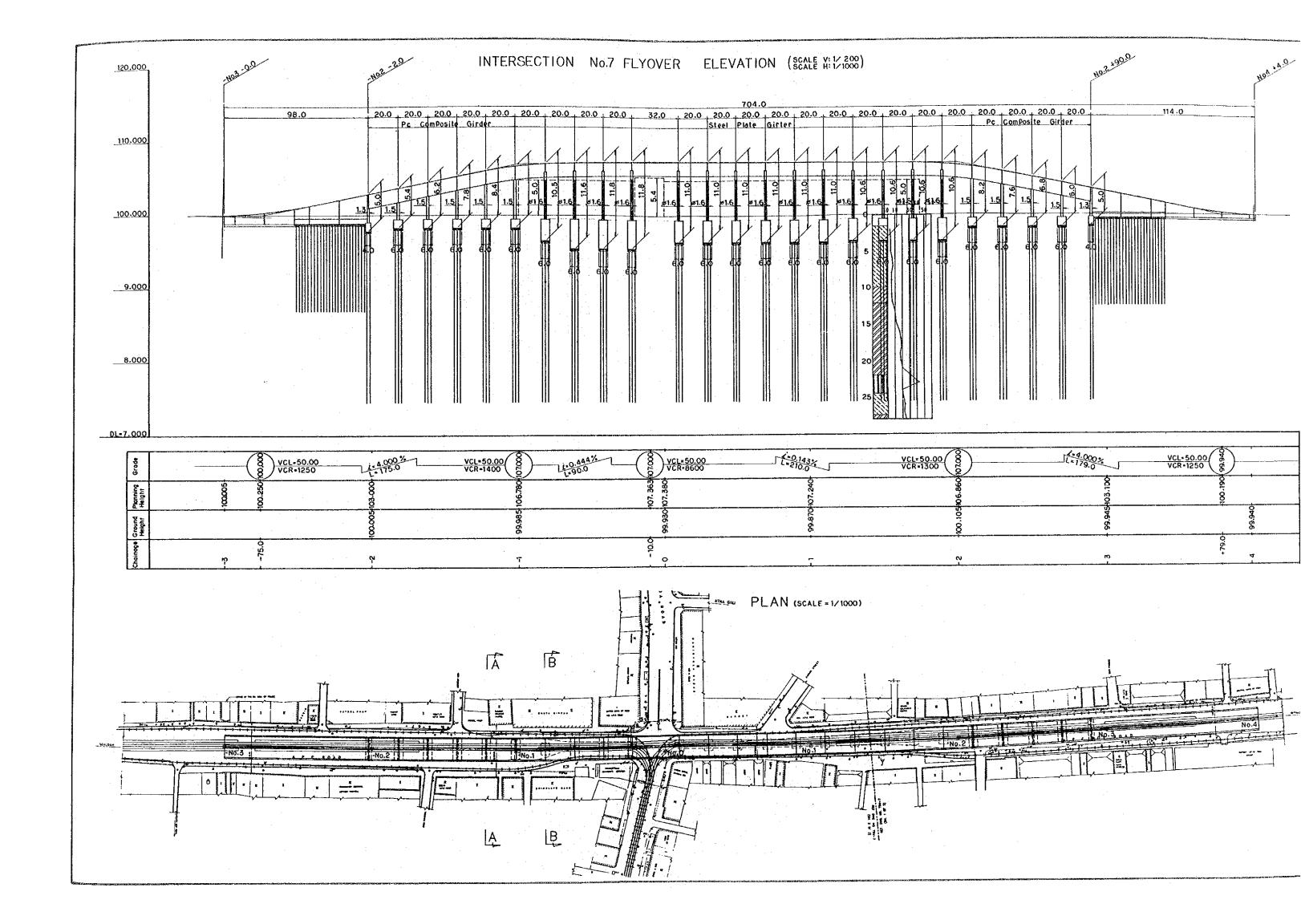
TITLE INTERSECTION No. 54No. 6
WEST-EAST FLYOVER

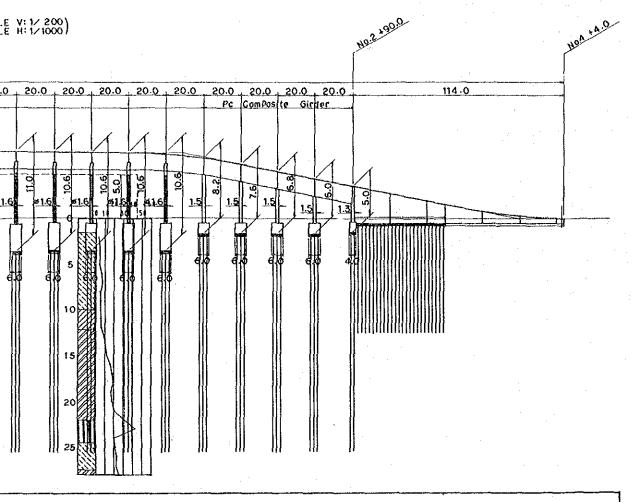
DATE AUGUST 1992 SCALE

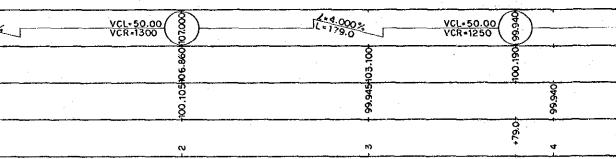
JAPAN INTERNATIONAL COOPERATION

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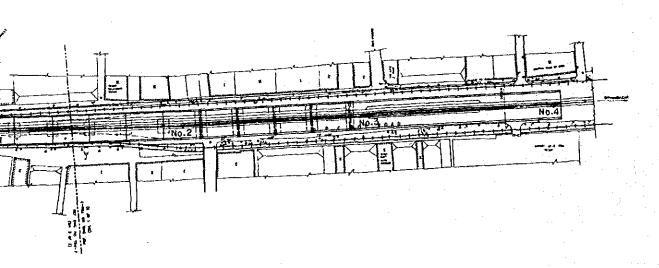
D. W. 0



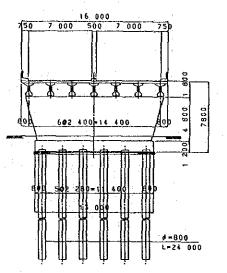




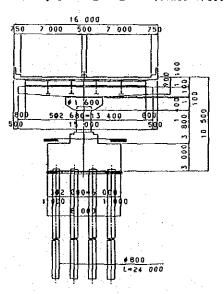
LE = 1/1000)



SECTION A-A (SCALE-1/200)



SECTION B-B (SCALE-1/200)



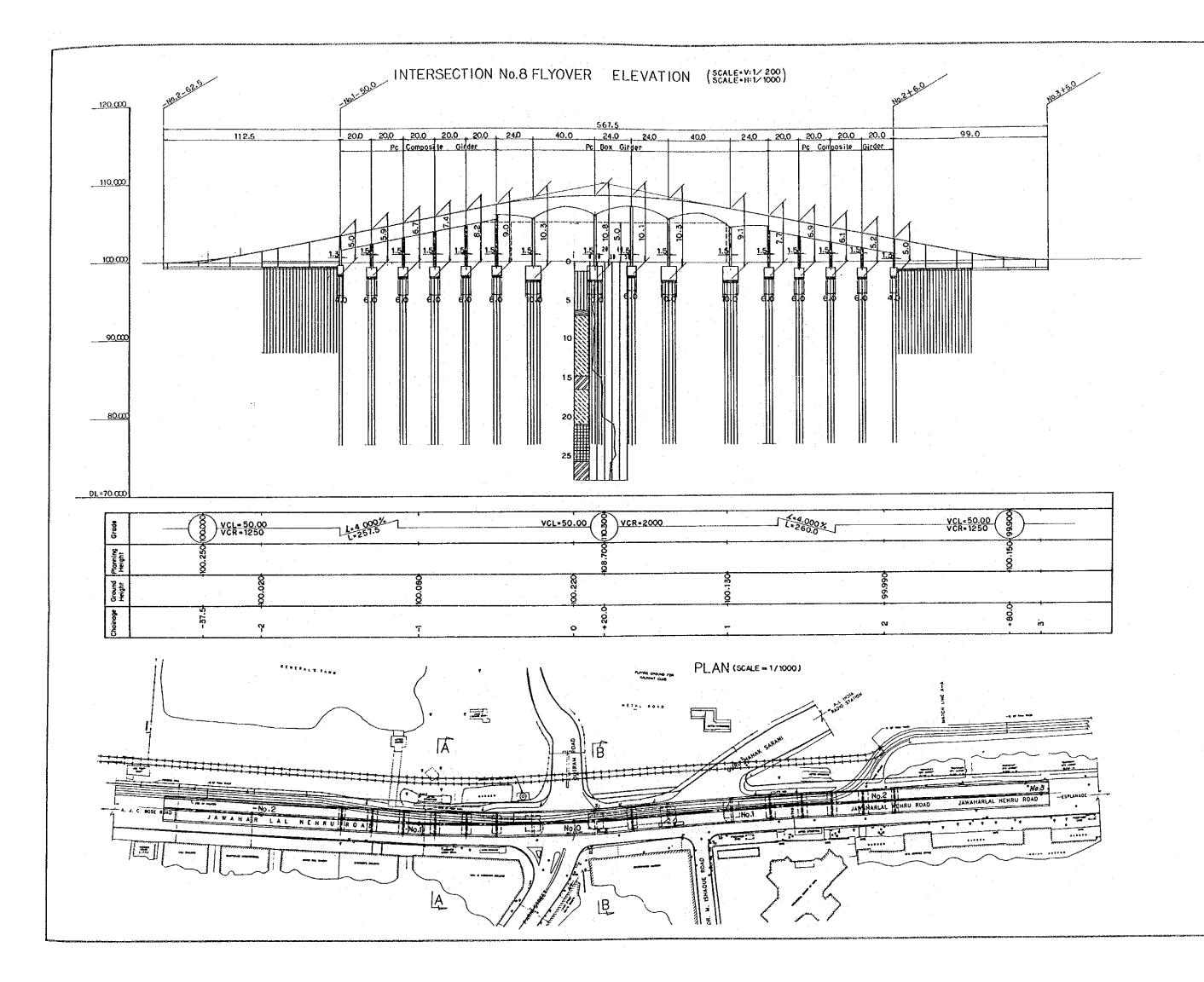
DESIGN DATA

түре	PC BOX BIRDAR	M			
	PC COMPOSITE GIRDER	180.00 M			
	STEEL BOX BIRDER	—— ы			
	STEEL PLATE GIRDER	312.00 M			
TOTAL FLYOVER LENGTH	492.00 M				
CARRIAGEWAY WIOTH	14.00 M				
LIVE LOAD	CLASS-AA AND	CLASS-A			
IMPACT COEFFICIENT	1-0. 1≤40M, [=0. 088>40M 1-4. 5/6+1				
SEISMIC COEFFICIENT	C=0.06				
STANDARO	[, R. C				

THE TRANSPORT INFRASTRUCTURE
DEVELOPMENT PROJECT IN CALCUTTA IN
WEST BENGAL . INDIA

TITLE	INTERS North-				
DATE	AUGUST 1	992	SCALE		
JAPAN	INTERNAT	IONAL	COOP	ERATION	D. W. G

No.



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