社会開発協力部報告書

 $\mathcal{A}^{(n)}$ 

	100	-	-	
***	<del>sina</del> :	úranges		
AND A	~7			
1 No. 1	1		- 1	
	-		7	

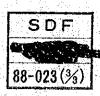
BARRANQUILLA

THE FEASIBILITY STUDY ON THE URBAN DEVELOPMENT OF THE CENTRAL DISTRICT OF BARRANQUILLA THE REPUBLIC OF COLOMBIA

#### DRAWINGS

FINAL REPORT FEBRUARY 1988

JAPAN INTERNATIONAL COOPERATION AGENCY



# BARRANQUILLA

THE FEASIBILITY STUDY ON THE URBAN DEVELOPMENT OF THE CENTRAL DISTRICT OF BARRANQUILLA

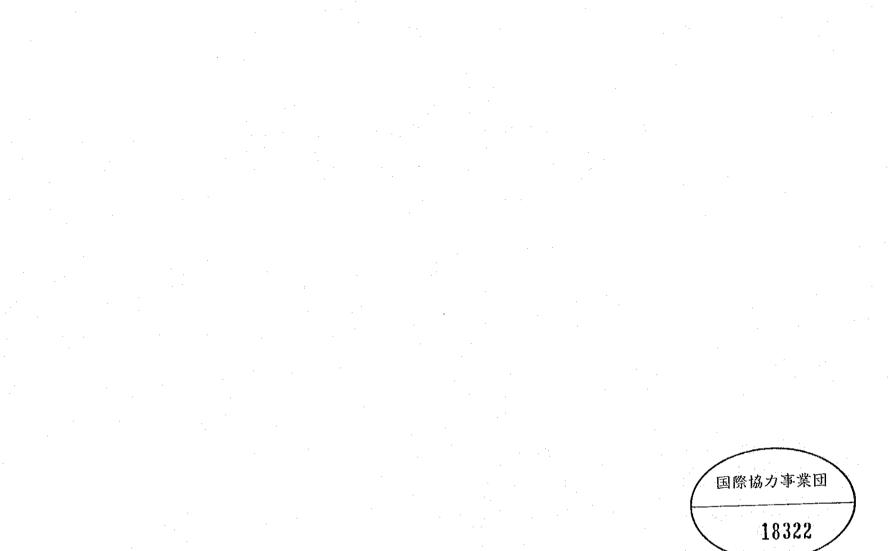


THE REPUBLIC OF COLOMBIA

#### DRAWINGS

## FINAL REPORT FEBRUARY 1988

## JAPAN INTERNATIONAL COOPERATION AGENCY





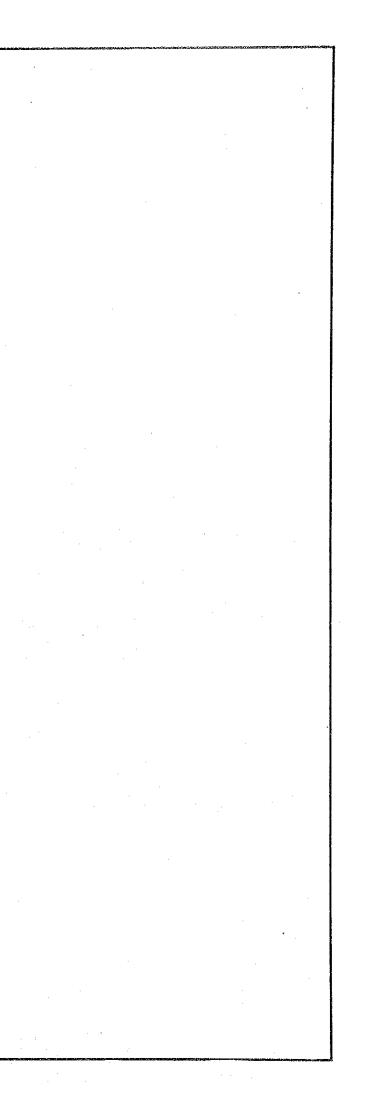
#### THE FEASIBILITY STUDY ON THE URBAN DEVELOPMENT OF THE CENTRAL DISTRICT OF BARRANQUILLA

DRAWINGS

CONTENTS

PART I : ROADS

CALLE 30 IMPROVEMENT PLAN (1), (2)
CALLE 30 IMPROVEMENT PLAN (3), (4)
CALLE 30 IMPROVEMENT PLAN (5)
CALLE 30 IMPROVEMENT PLAN (6)
PROFILE OF CALLE 30 IN THE CENTRAL DISTRICT
PROFILE OF CALLE 30 IN THE CENTRAL DISTRICT
CALLE 30 ROAD FACILITIES PLAN (1), (2)
CALLE 30 ROAD FACILITIES PLAN
CALLE 30 ROAD FACILITIES PLAN
CALLE 30 ROAD FACILITIES PLAN
RIVERSIDE BYPASS PLAN AND PROFILE (I)
RIVERSIDE BYPASS PLAN AND PROFILE (II)
RIVERSIDE BYPASS PLAN AND PROFILE (III)
RIVERSIDE BYPASS PLAN AND PROFILE (IV)
RIVERSIDE BYPASS PLAN AND PROFILE (V) 15
RIVERSIDE BYPASS PLAN AND PROFILE (VI)
RIVERSIDE BYPASS PLAN AND PROFILE (VII-1)
RIVERSIDE BYPASS PLAN AND PROFILE (VII-2)
RIVERSIDE BYPASS PLAN AND PROFILE (VIII)
CALLE 6
$CARRERA 38 \ldots $
RIVERSIDE BYPASS DRAINAGE SYSTEM AT EMBANKMENT
RIVERSIDE BYPASS DRAINAGE SYSTEM PLAN (I), (II)
RIVERSIDE BYPASS DRAINAGE SYSTEM PLAN (III), (IV)



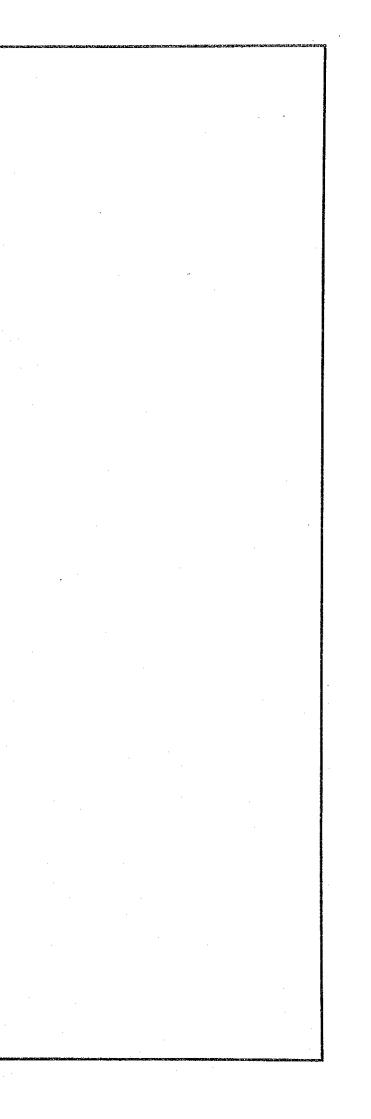
PAG.

	RIVERSIDE BYPASS DRAINAGE SYSTEM PLAN (V), (VI)	25
	RIVERSIDE BYPASS DRAINAGE SYSTEM PLAN (VII-I), (VIII)	26
	LOCATION MAP FOR STRUCTURES ALONG RIVERSIDE BYPASS	
	BORING TEST DATA ALONG RIVERSIDE BYPASS (1)	28
	BORING TEST DATA ALONG RIVERSIDE BYPASS (2)	29
	BORING TEST DATA ALONG RIVERSIDE BYPASS (3)	30
	EXISTING PLANNING FOR CANAL (NAVIGATIONAL HEIGHT AND WIDTH)	31
	EXISTING CONDITION OF ARROYOS ALONG RIVERSIDE BYPASS	32
	EXISTING BRIDGES FOR CAÑO AHUYAMA, ARRIBA AND COMPAÑIAS	33
	STANDARD DESIGN OF PRESTRESSED CONCRETE BRIDGE	
	STANDARD DESIGN OF R.C.D.G.	
	STANDARD DESIGN OF BOX CULVERT	36
	BRIDGE REBOLO	37
•	BRIDGE AHUYAMA	
	BRIDGE ARRIBA (RIVERSIDE BYPASS)	39 ·
	BRIDGE TRAMPOSOS	40
	BRIDGE COMPAÑIAS C	
	BRIDGE COMPAÑIAS B	42
	BRIDGE AHUYAMA ON CARRERA 38	43

.

#### PART II : BUS TERMINAL

FIRST FLOOR PLAN OF INTERMUNICIPAL BUS TERMINAL
SECOND FLOOR PLAN OF INTERMUNICIPAL BUS TERMINAL
ELEVATION PLAN OF INTERMUNICIPAL BUS TERMINAL
ELEVATION AND SECTION PLAN OF INTERMUNICIPAL BUS TERMINAL
STRUCTURAL PLAN OF INTERMUNICIPAL BUS TERMINAL
STRUCTURAL PLAN FOR SIDE AND CENTRAL ROOF SECTIONS OF INTERMUNICIPAL BUS TERMINAL
ROOF PLAN OF INTERMUNICIPAL BUS TERMINAL
BUS MAINTENANCE AND REPAIR OF INTERMUNICIPAL BUS TERMINAL
SURVEILANCE TOWER OF INTERMUNICIPAL BUS TERMINAL
PLAN OF URBAN BUS TERMINAL



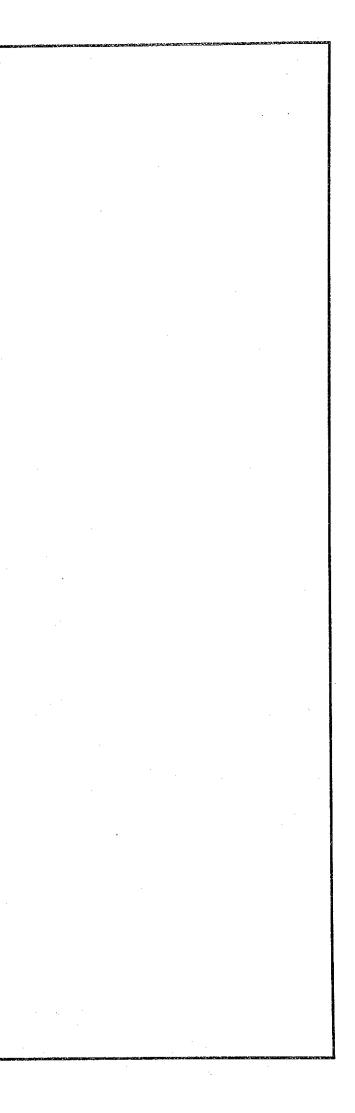
#### PART III: PUBLIC MARKET FACILITIES

۰.

PUBLIC MARKET FACILITIES (GROUND FLOOR)	54
PUBLIC MARKET FACILITIES (SECOND STORY)	55
PUBLIC MARKET CONSTRUCTION SPECIFICATIONS	56
PUBLIC MARKET STRUCTURAL PLAN	57
PUBLIC MARKET ROOF PLAN	58
PUBLIC MARKET ADMINISTRATIVE BUILDING (GROUND FLOOR)	59
PUBLIC MARKET ADMINISTRATIVE BUILDING (SECOND FLOOR)	60
ELEVATION AND SECTION OF PUBLIC MARKET ADMINISTRATIVE BUILDING	61
ELEVATION OF PUBLIC MARKET ADMINISTRATIVE BUILDING	
STRUCTURAL ROOF PLAN OF PUBLIC MARKET ADMINISTRATIVE BUILDING	63
STALLS TYPE	64
ELEVATION AND SECTION OF WHARF	65
WHARF	66
OPEN MARKET (TYPE A)	67
OPEN MARKET (TYPES B AND C) STALL DISTRIBUTION	68
OPEN MARKET (TYPES B AND C) STALL DISTRIBUTION	69
OPEN MARKET (TYPES B AND C) STALL DISTRIBUTION	
ELEVATION OF OPEN MARKET (TYPE B) ELEVATION AND SECTION OF OPEN MARKET (TYPE B)	71
ELEVATION AND SECTION OF OPEN MARKET (TYPE B)	72
OPEN MARKET (TYPE C) OPEN MARKET (TYPE C)	73
OPEN MARKET (TYPE C)	74
ROOF PLAN - SECOND STORY OF OPEN MARKET	74
OPEN MARKET ROOF PLAN AND SECOND FLOOR	10

## PART IV : PARKS AND RECREATIONAL FACILITIES - PEDESTRIAN STREETS

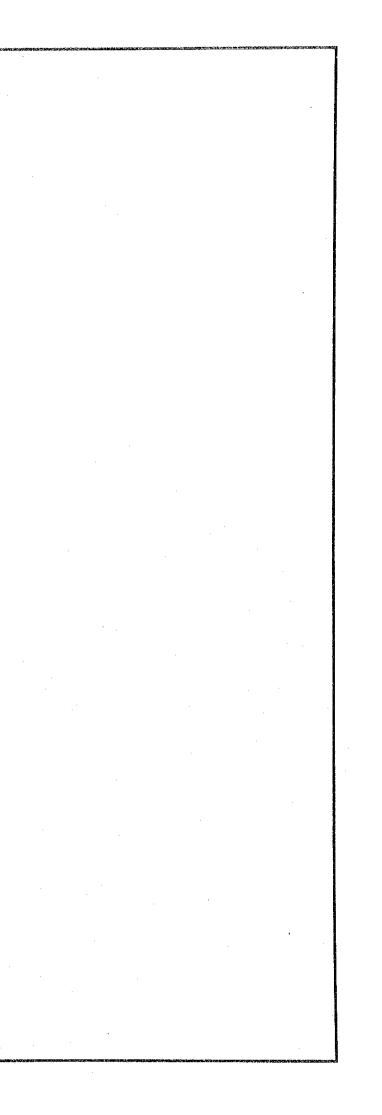
TRAMPOSOS CANAL PARK 1/2	76
TRAMPOSOS CANAL PARK 2/2	
MERCADO CANAL PARK 1/3	
CALLE 30 PEDESTRIAN BRIDGE AND MERCADO CANAL PARK DECK	
DECK ELEVATION OF MERCADO CANAL PARK	80
MERCADO CANAL PARK 2/3	81
MERCADO CANAL PARK 3/3	82
LIBRARY	83



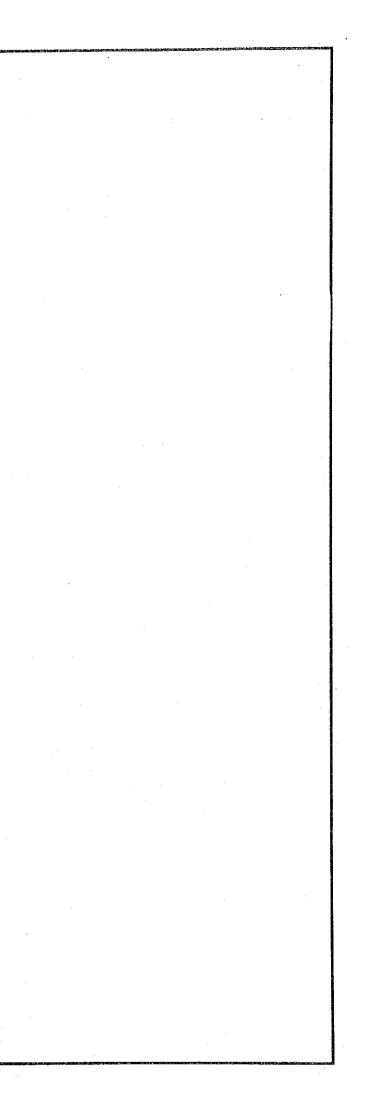
ELEVATION OF LIBRARY	
ROOF PLAN LIBRARY	85
BALLET SCHOOL THEATER AND EXHIBITION HALL	86
ELEVATION OF BALLET SCHOOL THEATER AND EXHIBITION HALL	87
ROOF PLAN OF BALLET SCHOOL THEATER AND EXHIBITION HALL	. 88
SCHOOL OF FINE ARTS	89
ELEVATION AND SECTION OF FINE ARTS SCHOOL	90
ROOF PLAN OF FINE ARTS SCHOOL	91
ARRIBA CANAL PARK 1/2	92
ARRIBA CANAL PARK 2/2	93
RECREATIONAL PARK	94
ADMINISTRATIVE BUILDING RECREATIONAL PARK (GROUND FLOOR)	95
ADMINISTRATIVE BUILDING RECREATIONAL PARK (LEVELS 2 AND 3)	96
ELEVATION AND SECTION OF ADMINISTRATIVE BUILDING OF RECREATIONAL PARK	97
STRUCTURAL AND ROOF PLAN OF ADMINISTRATIVE BUILDING OF RECREATIONAL PARK	
MULTIPURPOSE RROOFED COURT	
ELEVATION AND SECTION OF MULTIPURPOSE ROOFED COURT	100
SERVICES UNIT OF RECREATIONAL PARK	101
CHURCH AND FISHING CLUB	
PEDESTRIAN STREET - CARRERA 42 (1/2)	103
PEDESTRIAN STREET - CARRERA 42 (2/2)	104
PEDESTRIAN STREET - CALLE 7 (1/2)	105
PEDESTRIAN STREET - CALLE 7 (2/2)	106
PEDESTRIAN STREET - CARRERA 44 (1/2)	
PEDESTRIAN STREET - CARRERA 44 (2/2)	108
	-

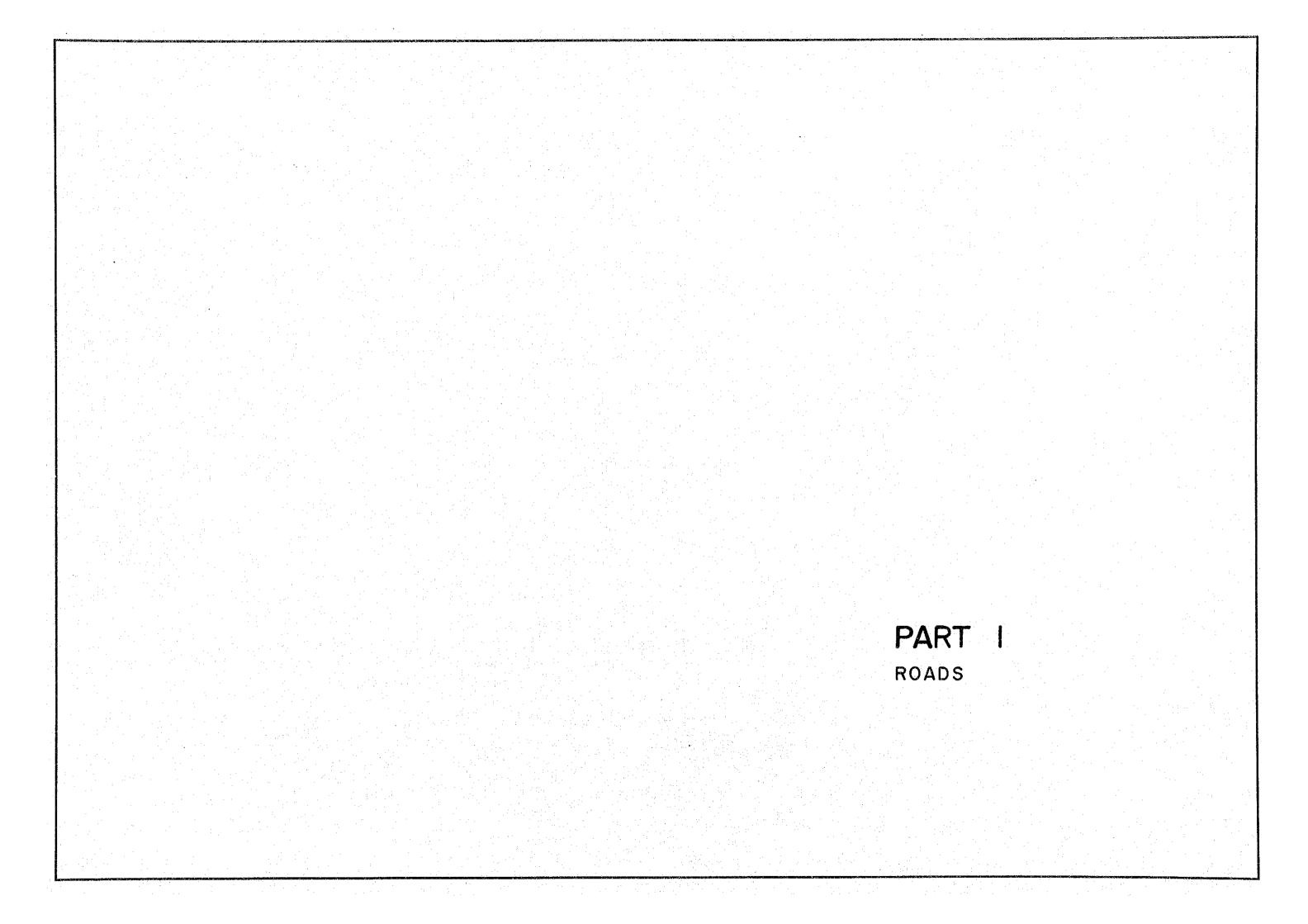
#### PART V : INFRASTRUCTURE AND PUBLIC FACILITIES

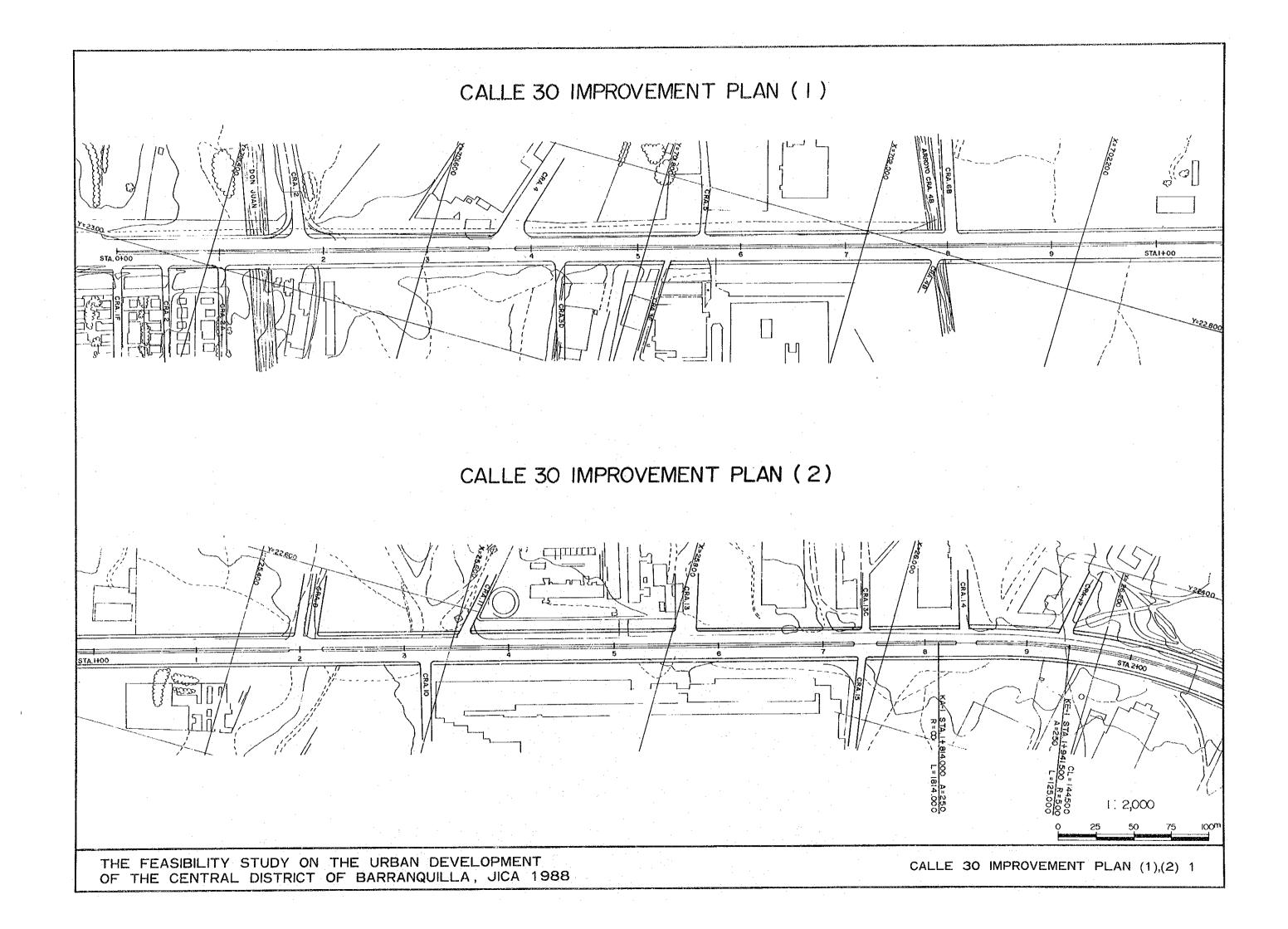
PLAN OF LAND PREPARATION	109
DISTRIBUTION OF REQUIRED FILLING SOIL QUANTITY	. 110
DRAINAGE PLAN	. 111
MAIN DRAINAGE NO. 1 (1/2)	. 112
MAIN DRAINAGE NO. 1 (2/2)	. 113
MAIN DRAINAGE NO. 2 (2/2)	. 114
STANDARD STRUCTURE OF DRAINAGE	. 115

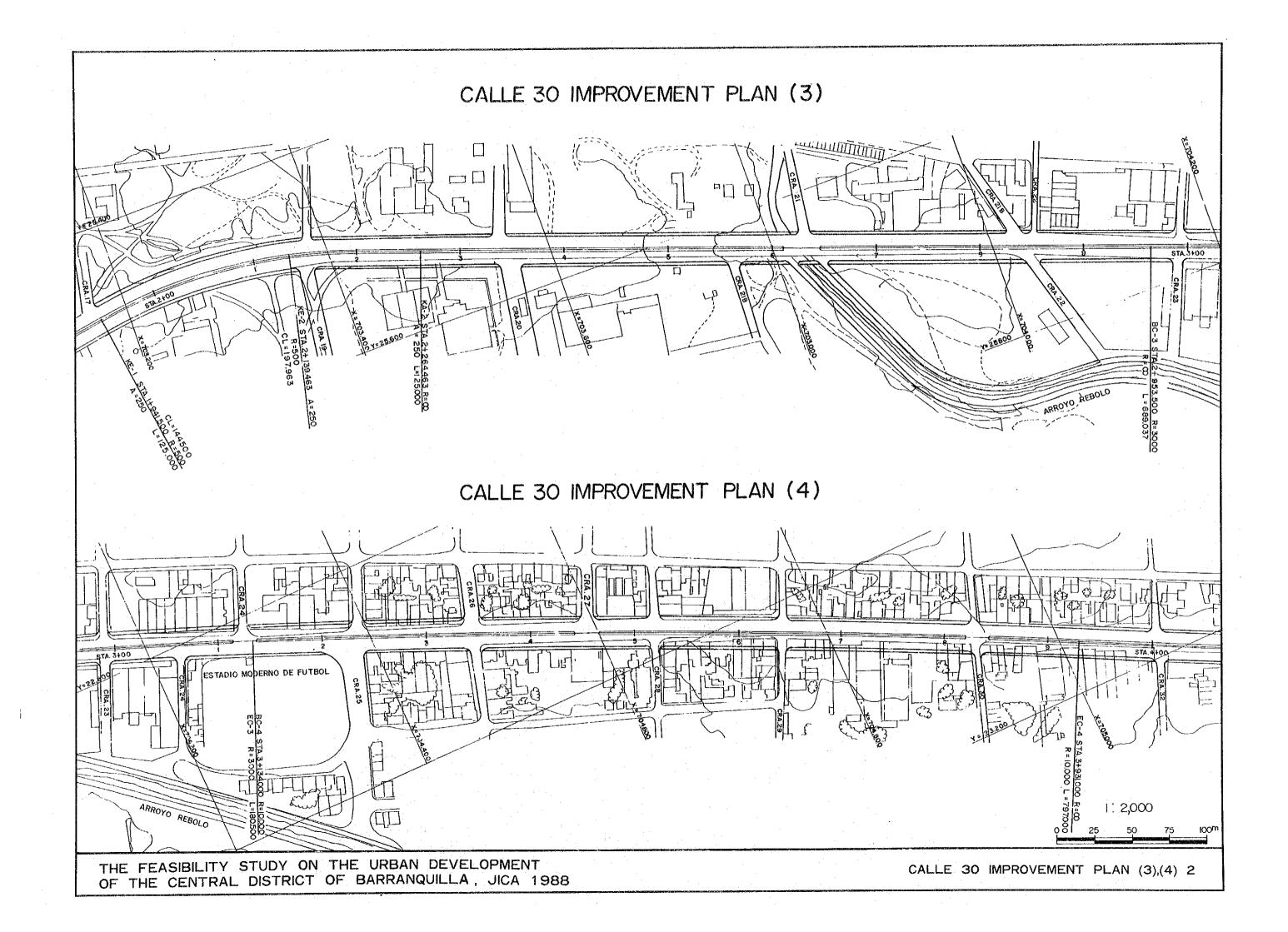


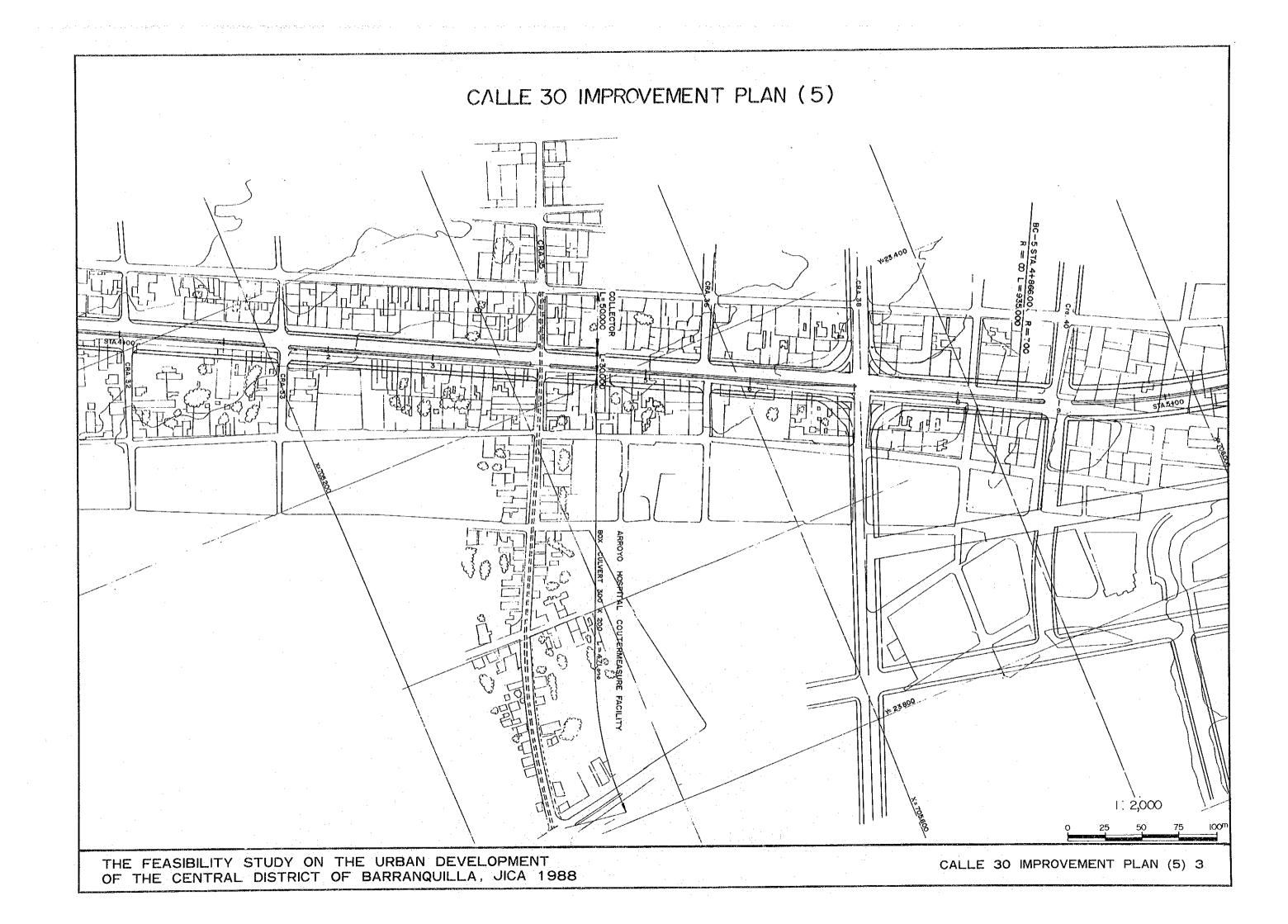
STANDARD ARRANGEMENT OF DRAINAGE	. 116
STANDARD ARRANGEMENT OF DRAINAGE	117
TYPICAL ARRANGEMENT OF UTILITY LINES IN STREET	• 117
WATER SUPPLY NETWORK	. 118
STANDARD ARRANGEMENT OF WATER SUPPLY FACIITIES	. 119
SEWER NETWORK	. 120
PROFILE OF MAIN SEWER (1/3)	
PROFILE OF MAIN SEWER (2/3)	122
PROFILE OF MAIN SEWER (3/3)	. 123
SEWER BRANCH STANDARD	. 124
STANDARD STRUCTURE OF MANHOLE	125
PRE_CAST REINFORCED CONCRETE CYLINDER	. 126
LAYOUT PLAN OF SEWAGE TREATMENT PLANT	. 127
FLOW DIAGRAM	. 128
OTTANDADD OTDIOTIDE $(1/2)$	. 129
STANDARD STRUCTURE (2/2)	. 130
PLAN OF ELECTRICITY SUPPLY AND DISTRIBUTION NETWORK	. 131

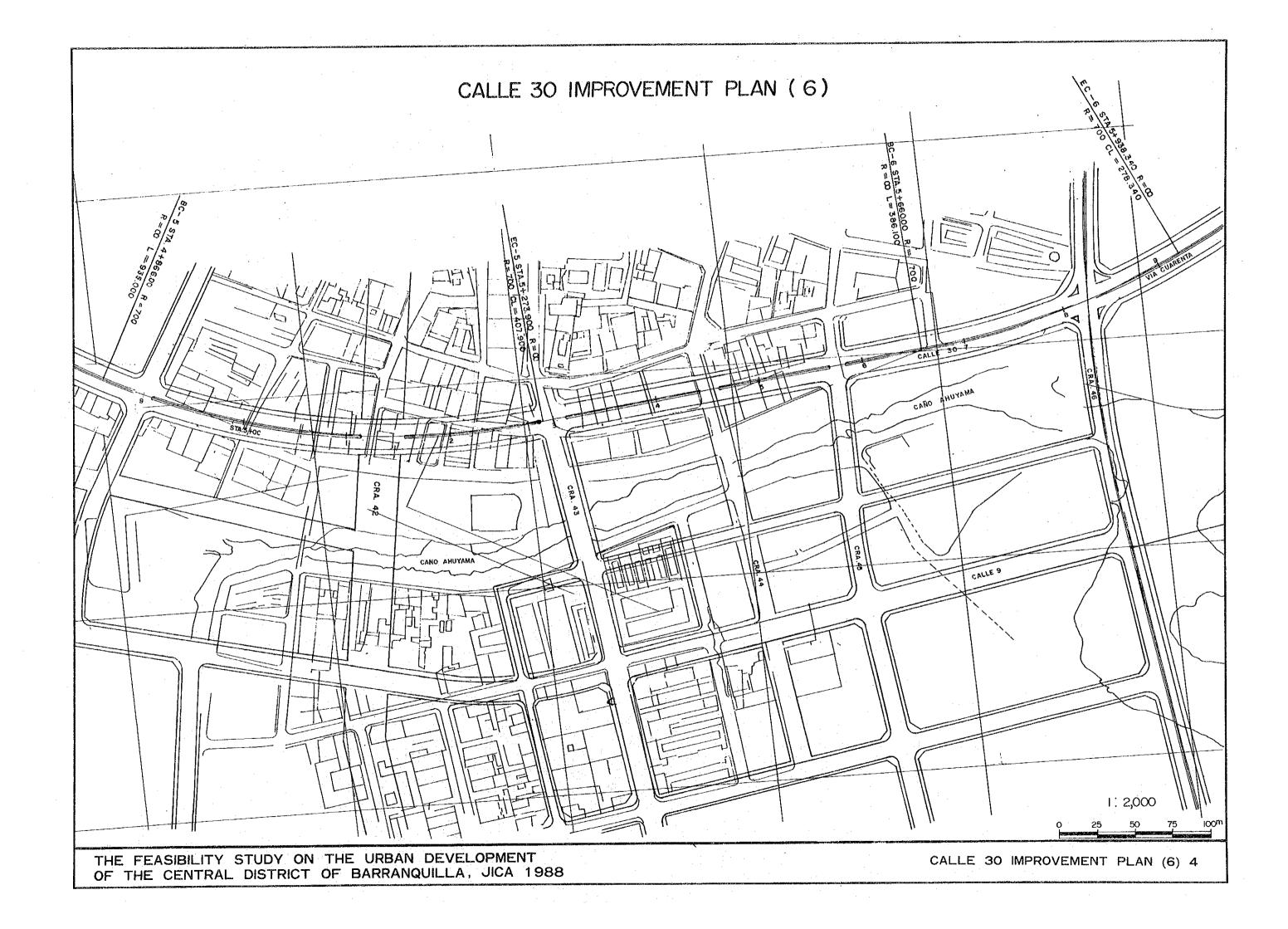












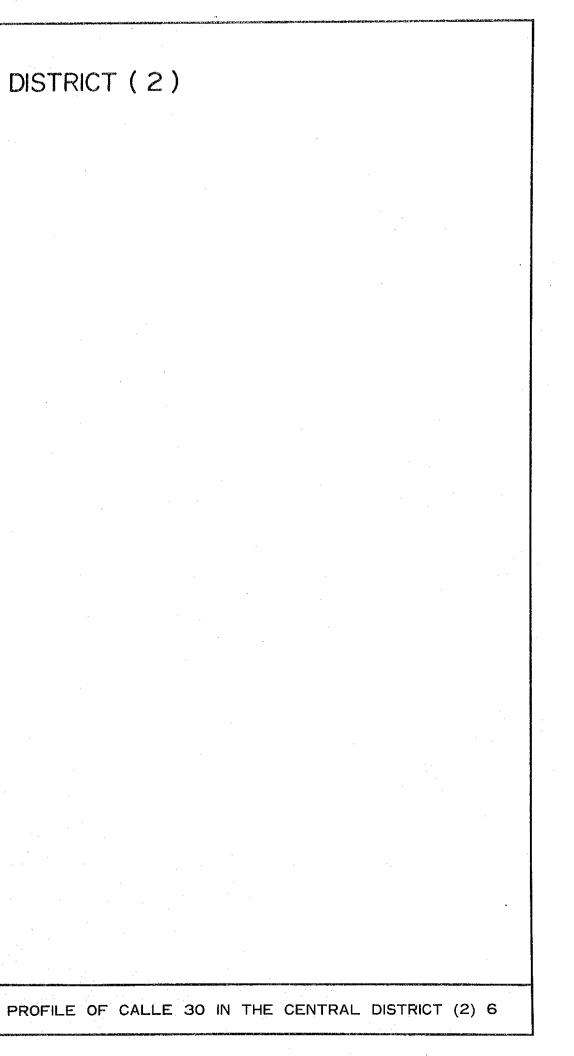
			,	1.13							1 ( <u>Crose</u>		RAL I				
		CB	A. 38					<u>c.RA.40</u>	CR	<u>A. Al</u>		CRA	<u>A'r</u>			38.43	
	5								V <u>CL = 1</u> 00				V CL = 100.0				
<u>DL = -</u>									R = 230		1=0.070 L=20000	%	R = 10.0	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			
	GRADE		I	444	l = 0.50 L = 300.0	000		<u> </u>		1	- ≈20 <u>0.0</u> (	······	m m			<u> </u>	<del>]</del>
	EMBANK	0 	00 00 1	0 0 		-1		₩ ₩ ₩			0 			r		1.22	-03 -
	50				0 02 7			<u> </u>	80 0	620	1	· · · · · · · · · · · · · · · · · · ·	<b>T</b>		1	······ <u>t</u>	
	1H9H4 - 2	5,000 4,970	4,750	4500	4250	4.975	4.005 4.005	3015 3755 101	3.446 1	3465	3,430	3.408	3.348 3.348	3.278	3.215 3.175	9.11 G 9.11 G 9.11 G	3.030
	6- KIGHT	67,4 6	4.73 S	4,30	6.4 O£.4		3.59 3.59	699 699 699	3.75	ດ ທີ	5.55	2.55	88		2.00 2.00	2.00	5 00 1
	ACUMULATE DISTANCE 4,600.00	4.70000 4.70600	750.00	800.00	850.000	4869,000	4.900,000	4.918.000	000000		2100.000	5.131.000 -	5. IB1.000 -	5250000	5273.900 - 5288.000 - 5.300.000 -	5.323.900	5400000
	50.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	44.00	 00 02 02	000000000000000000000000000000000000000	00181	88 88	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 00 00 00	20.00	31.00 19.00	00 00 00 00	50.00	23.90		20.00
	STATION 45000 4+5000	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		õ	82C 82	2 2 2 2	889-1	BC- 69 554 50 7 7	STA 5+00	ទួ	<u>0</u>	150 T	500 I	720 520	EC - 5 288 300	EC 338 350 350	60 1
					I				T	R	= 700		= 405.900		<u> </u>	<u>}</u>	
	IE FEASIBIL						-\/=		17							CALLE 3	

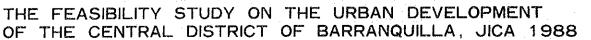
	CRA	4 <sup>4</sup>		C	RA. 45
				-	·
	J	l = 0.165 % L = 615.000		· · · ·	
	0.0 25 25	084	4 0 1	č 0	α 20
					F
	2.955 2.955 2.44	 5.865 2.	2.782	2.746	2.700
	6. 69 1	8	5.00	2.04	
	5446000 L	2200.000	5550000	5.572.000	5600.000
}	4 04 00 00	0 0 0 0 0 0	50.00	22.00	2800 2800
,	 wO	20	22O	572	600
	446	· KO			

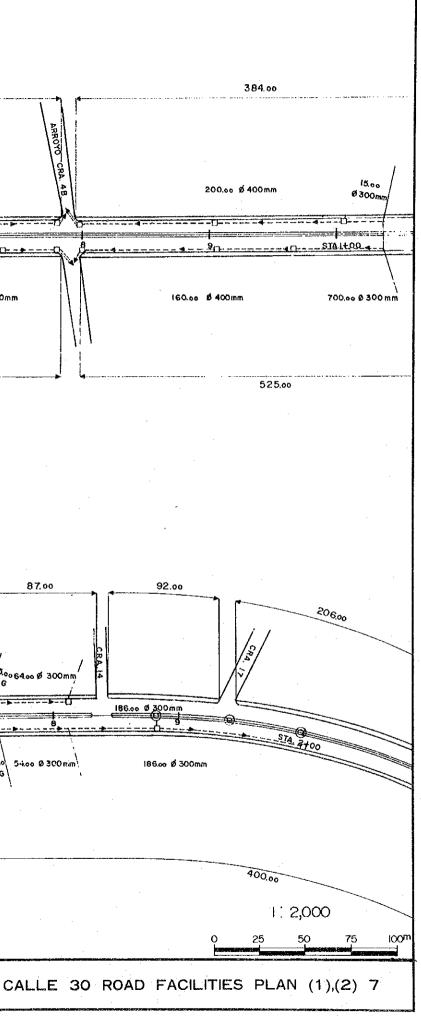
THE FEASIBILITY STUDY ON THE URBAN DEVELOPMENT OF THE CENTRAL DISTRICT OF BARRANQUILLA, JICA 1988

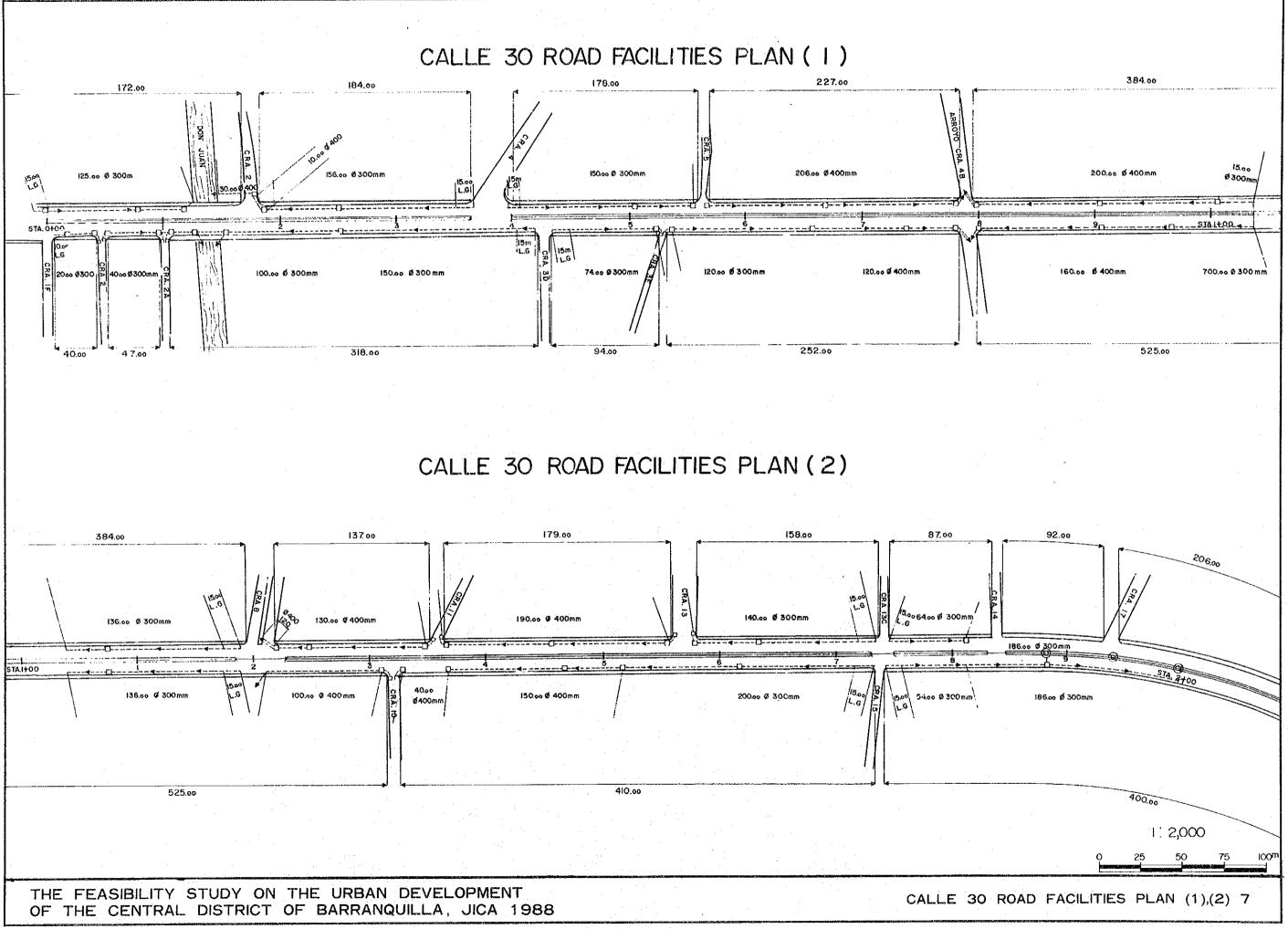
	5-						·															<b>4</b>	1
	0-												:							·			
	-5-						·																
-10.0	0					<u>.</u>			······	<u> </u>	. <u> </u>		1		<u></u>	<b>_</b>					.l		
	GRADE		- 				<u> =0.165%</u> L		.000				(	2 345		: 			267 %				
	EMBANK-	0.87		0.78	5 7	040 0	2	0.622	}	4 9 0	đ S C		052	0.53	<u> </u>						- <u>1</u>		
	CUT				<b>i</b>			· ·								1					1		
	F -HIGHT	2.865		2.782	2.746	002 0	3	2.618	5	2.535	2463	, ,	2.370	2.345		1			<b>_</b>		- <b>I</b>	. <u></u>	- <b>1</b>
	G-HIGHT	500		0000	204	ç	}	500	}	06.1	80 		1.85	1.81		 1					1		
	DISTANCE	5500000		555000	5572.000			5650000		5700000	0000		-5800.000	5.815.000	5:900,000	5 978340	5.950,000		6.00000		605000		6.00.000
	DISTANCE	50.00		20.00	22:00			2000	3	8 8 8			20.00	15.00	45.00	1 2 2 2 4 2 2	11.65		20:00		20.00	· · · · ·	20.00
-4	STATION	ŝ		220	572	S	}	650	0 2 9	8		3	800	8 15	8 S	ייייייייייייייייייייייייייייייייייייי	8	STA.	0 0 + 9		22 22		<u>8</u>
	CURVE	f	R = 0	) (		386.10	00		<b></b>	R	<del>-</del> 700	C	CL = 2	78.340		1			· .			• • • •	· · · · ·

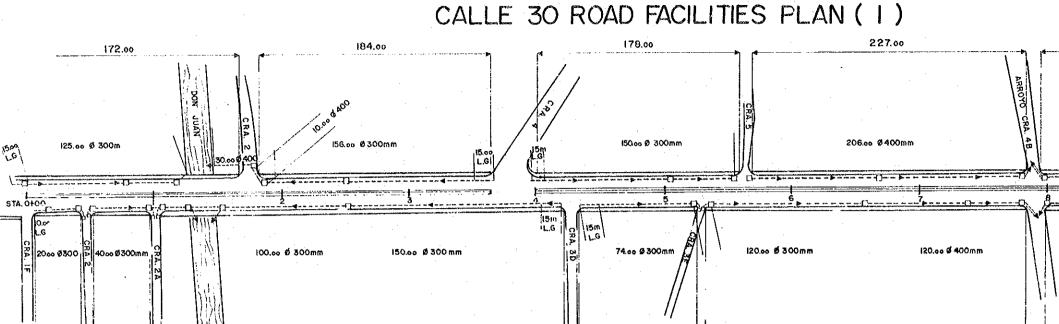
PROFILE OF CALLE 30 IN THE CENTRAL DISTRICT (2)

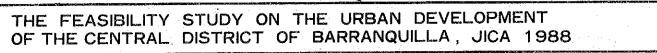


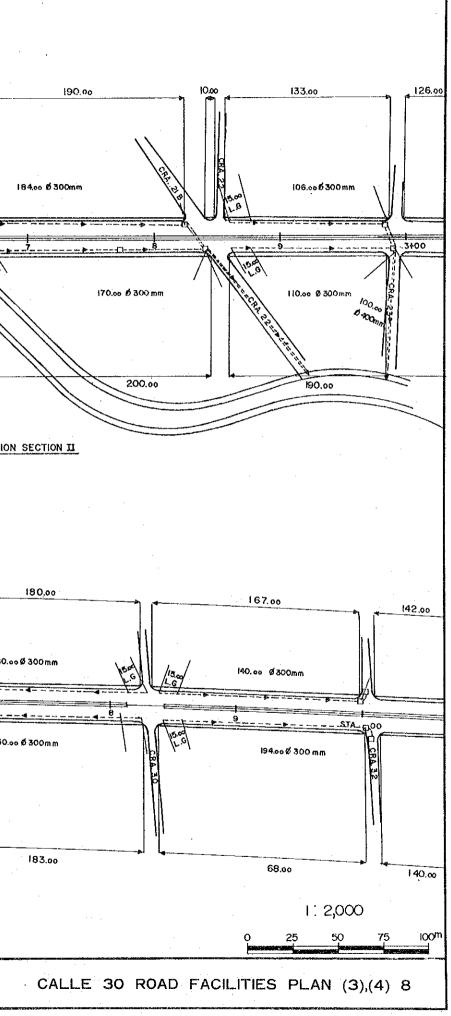


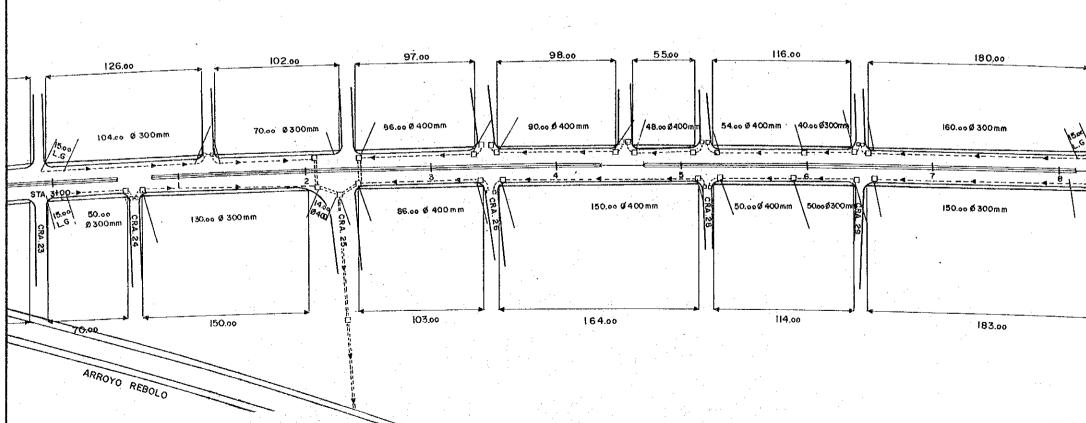




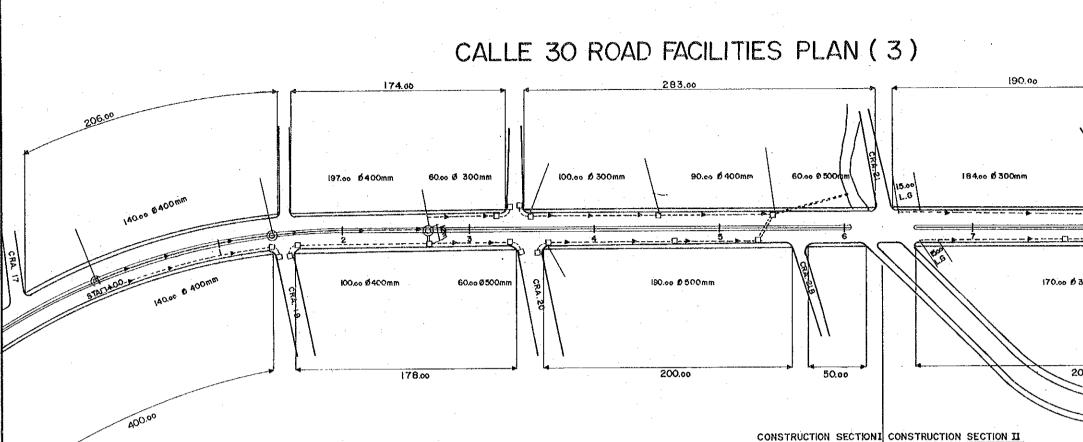


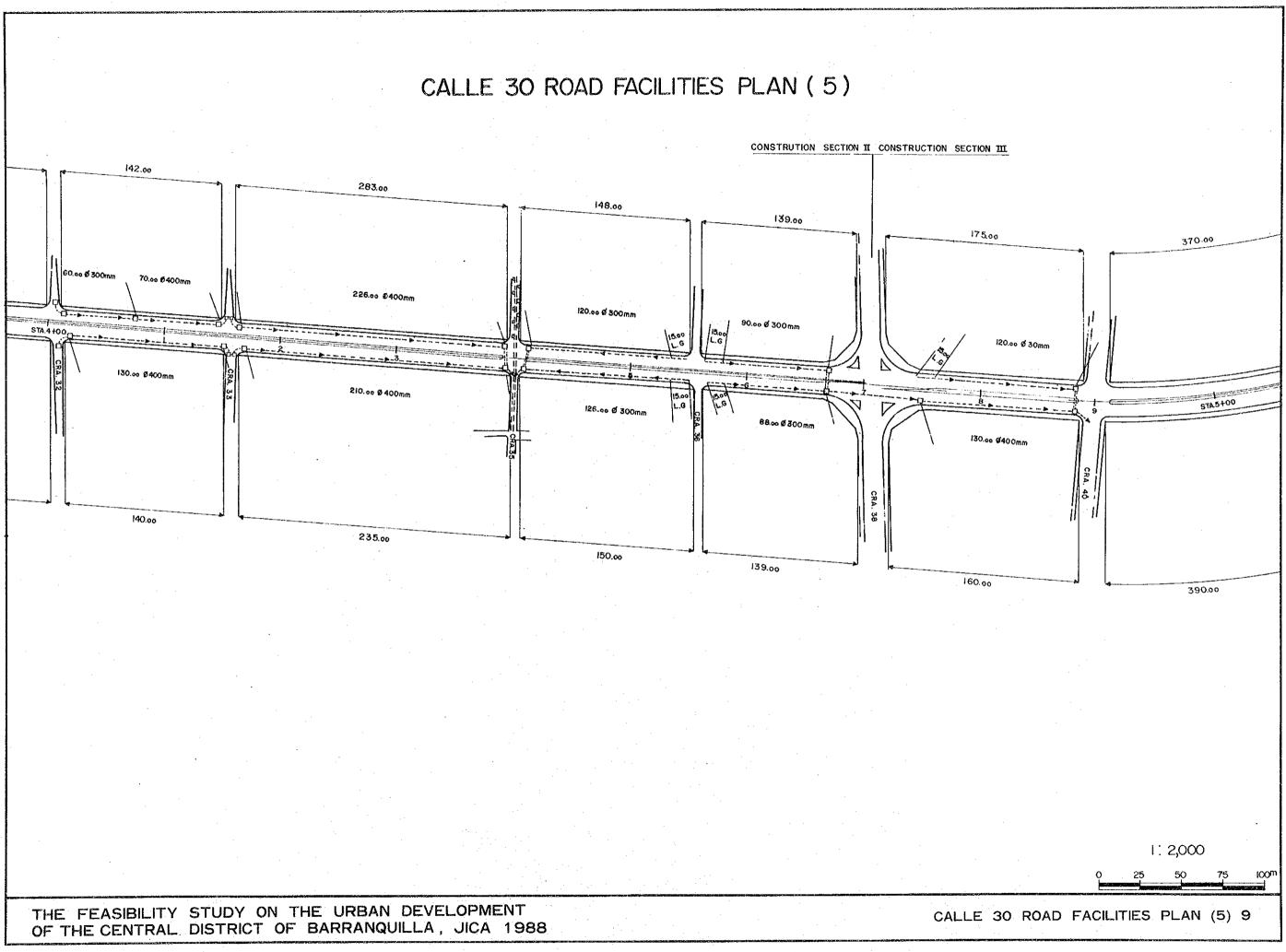


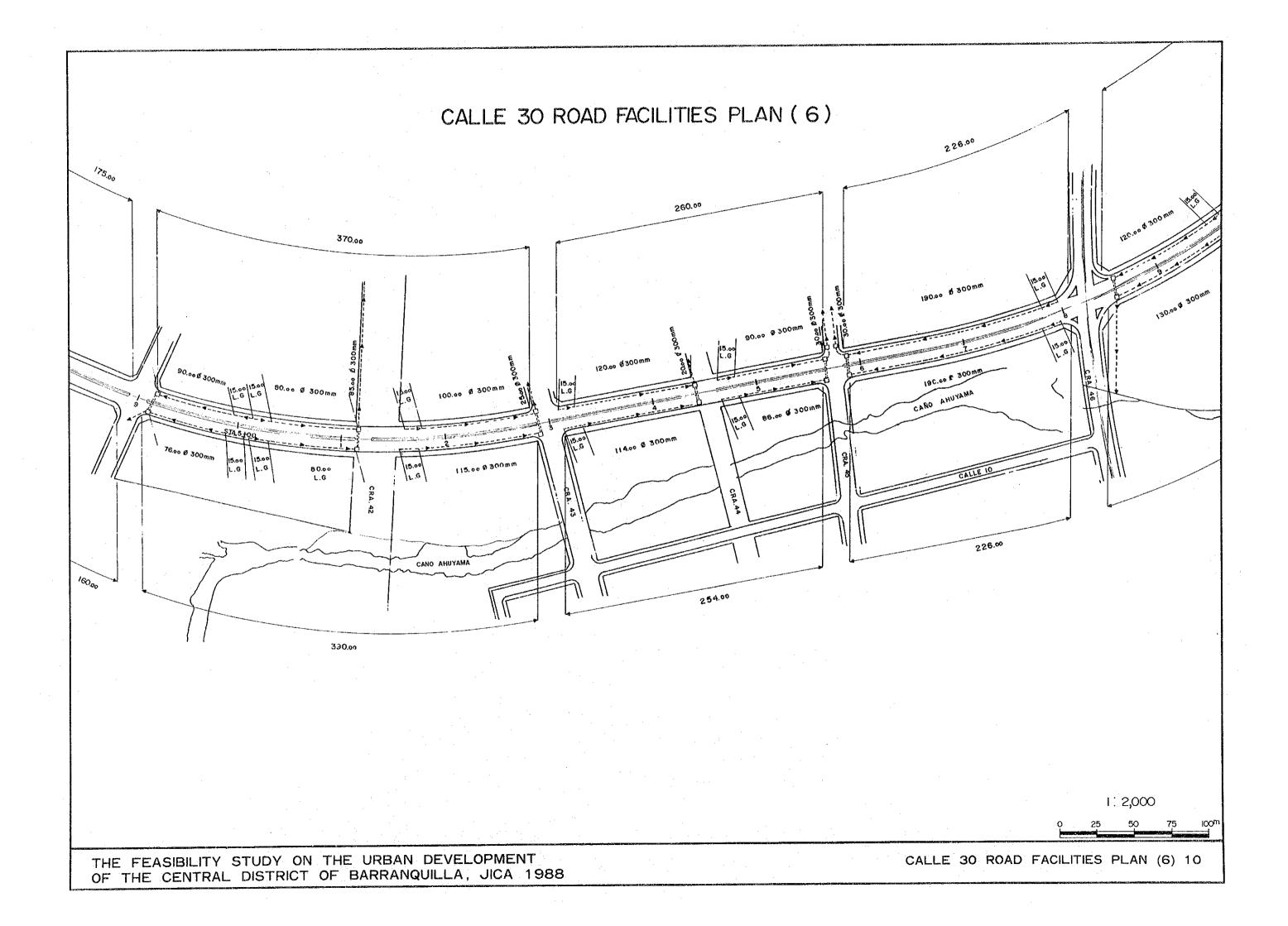


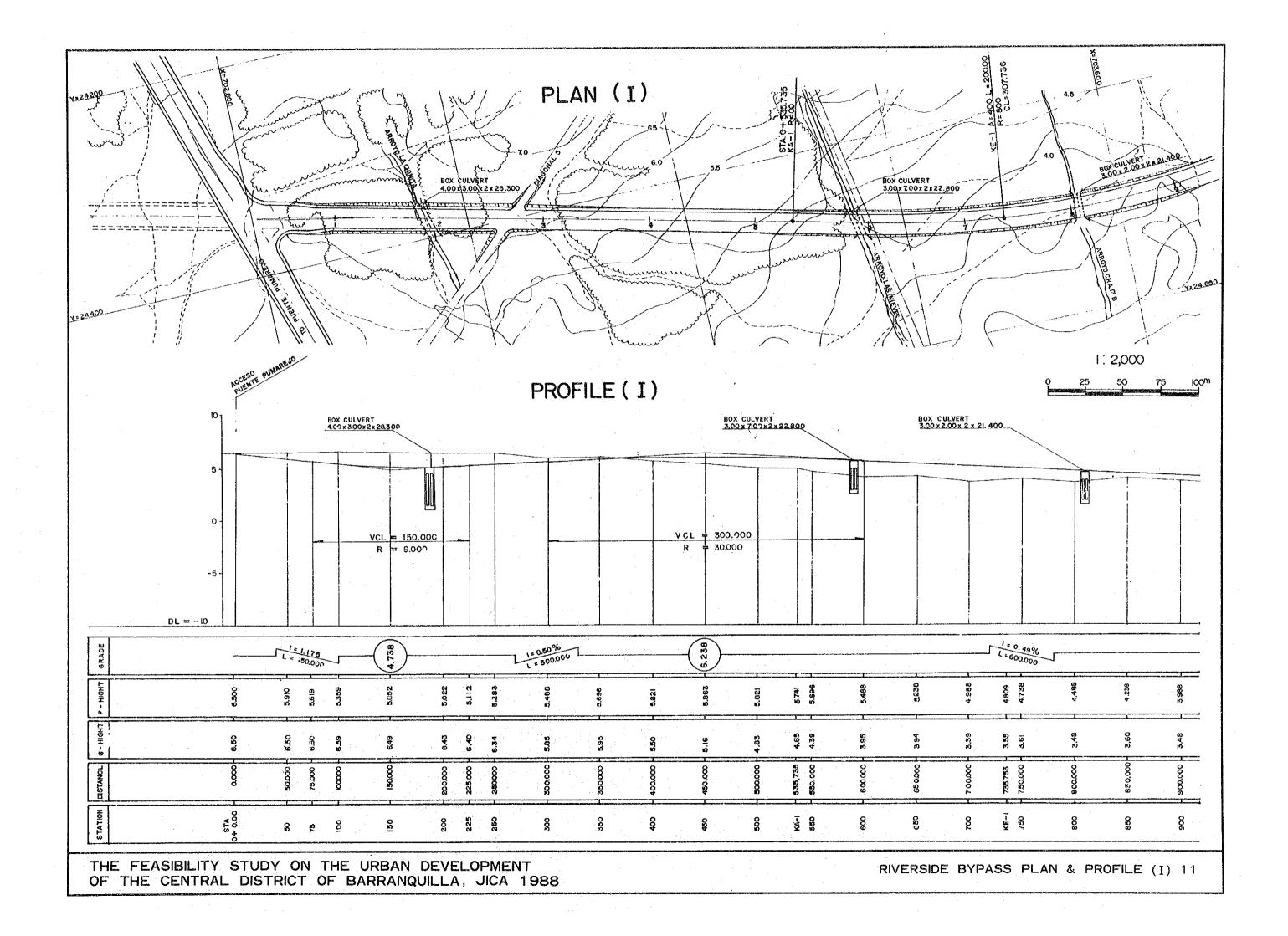


# CALLE 30 ROAD FACILITIES PLAN (4)

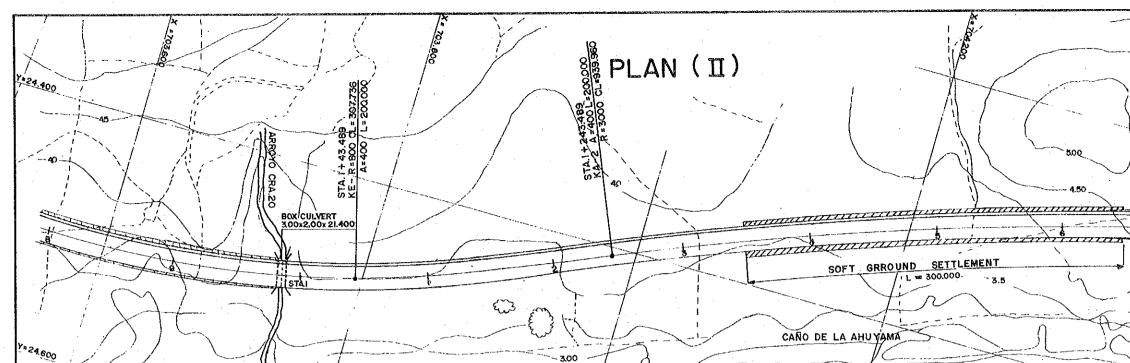


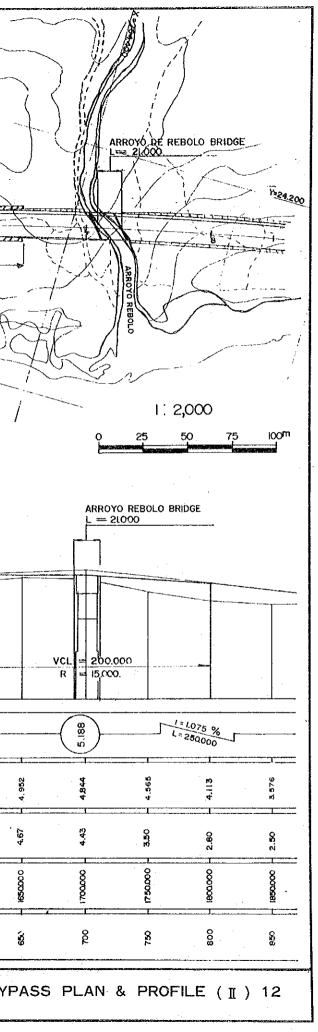


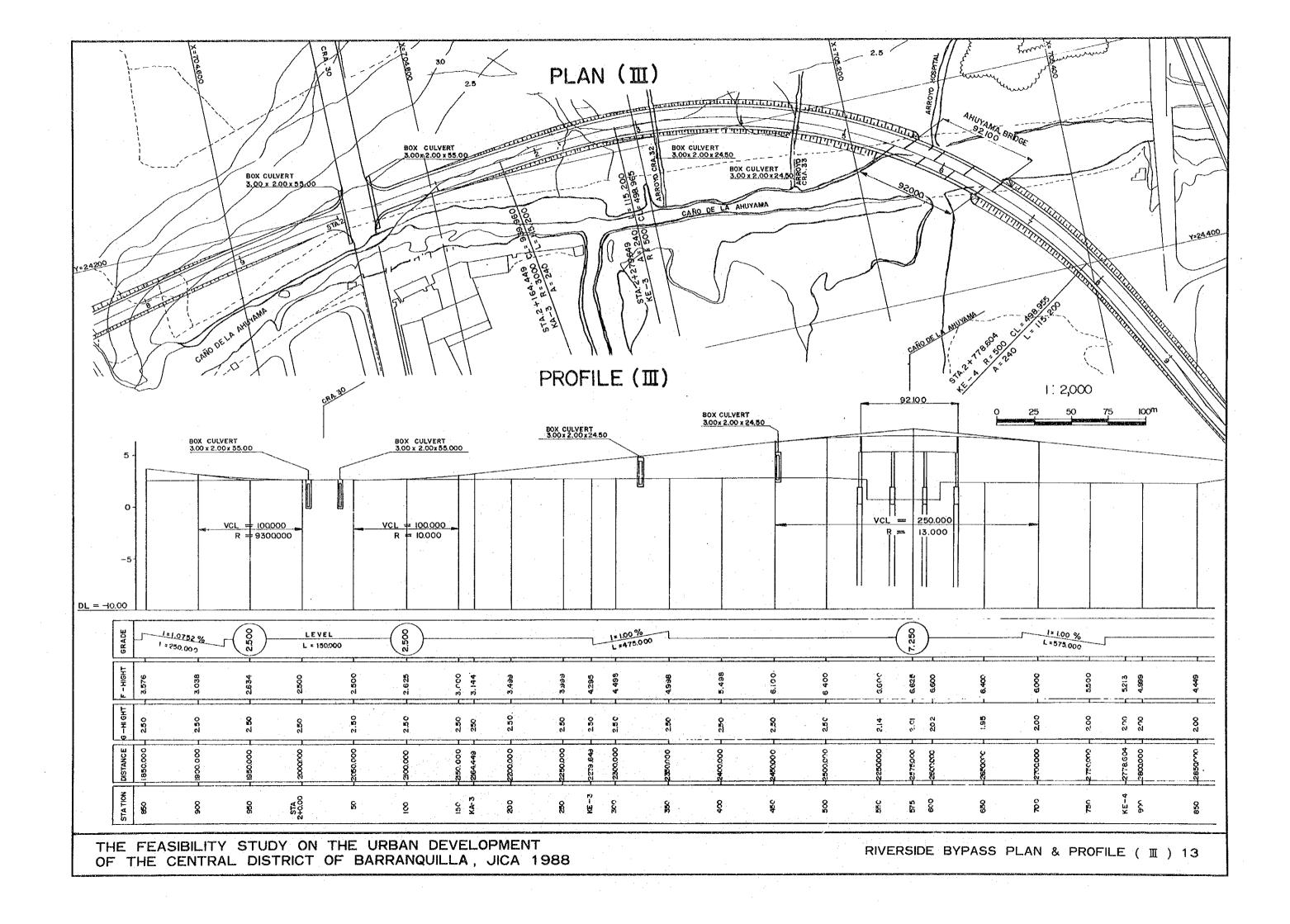


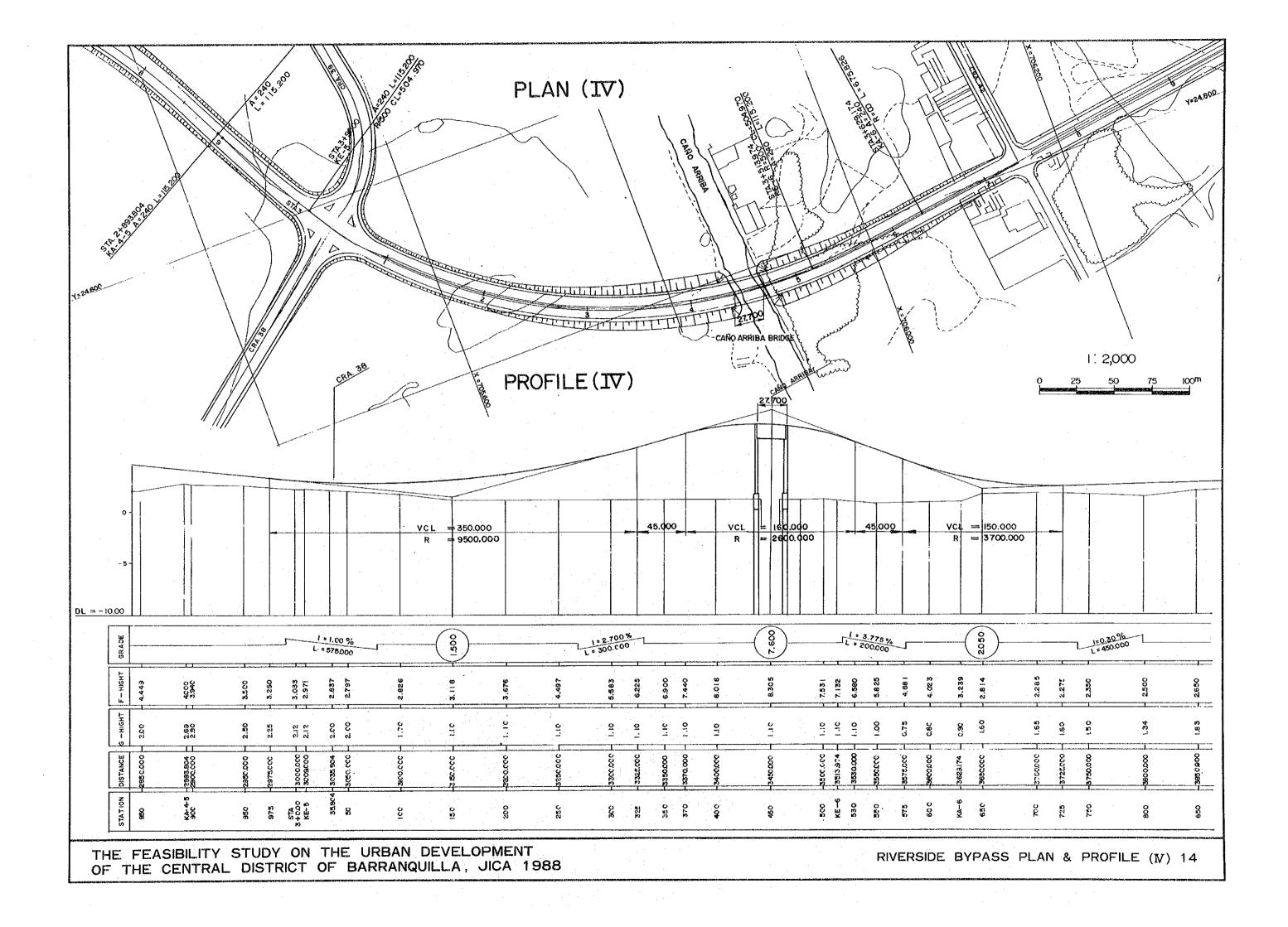


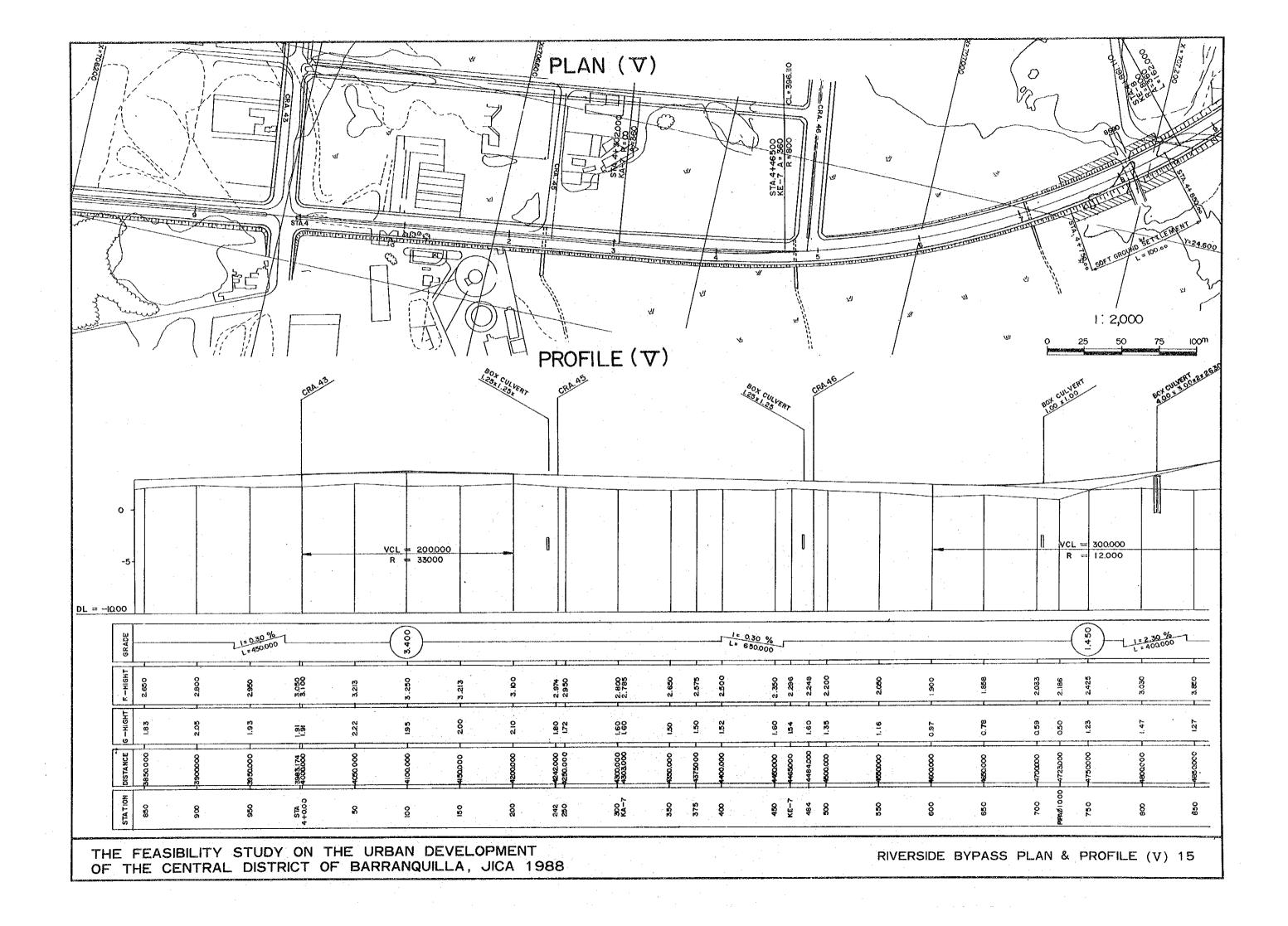
	Y= 24.600			) (			+		>				-3.00	1	- L			CAR	O DE LA	AHUYAMA	<i>N</i>		L		A.
	4	/ 					A.		~	······································	 	$\sim$		PF	ROF	ILE	(П)	)							1
																	·					x			
		5 -	•			BOX C 3.00 x	ULVERT 2.00x 21.40	<b>22</b>						•		• .								1	
		0-					VCL :	= 200.00	00	•					<u> </u>										
	DL = -5	00. Gradf		l= 0.5 L= 600	0%		R	= 25.000	<b>)</b>									= 0.30% L= 650,000	1						
		L HSIH	4,283	 ວິ ອີ ອີ ອີ	82.7.15 1.728 1.728	20 20 20 20 20 20 20 20 20 20 20 20 20 2	9,4 6 1	2 438 7 438 7 (3	3.438 1	·····	1.538 538 1.	3 883 9		0 8 8 9 1 1		8885.2			4 88 9	4,438	4 8 8 8 8 8 8	4,738		4. 858. 9	
		G ~ HIGHT	ы Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu	м Ф	9.08 3.08	84° ก		22 22	3.40		337	4 1-1 0	•	3.53		3.64	M G	}	3.65	3.76	<b>3.7</b> 0	3.8 5		4 2	
		FISTAMCE	85000	000.006	850,000	100000		00000000	1100.000		1150.000	1200000		1250.000		1300001			1400.000	1450.000	1200000	1550.000		1 10000000	
		STATION	0 9 9	8	0 20 5	STA 1+0.00	KE-2	8	8		120	8		550		300	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	}	ş	<b>8</b>	ğ	0		ŝ	
	TH OF	E F TH	EASIB		STUE DIS	DY OI	N THE	E UR BARF	BAN RANG		ELC A,	)PME JICA	ENT	988				. · · · · · · · · · · · · · · · · · · ·				RI	VERSI	DE B	ΙYΡ
L	an ya manadar da ka Kafalan Ku Ku	AT THE OTHER PARTY IN CASE	42 <b>0-00.1016/07.0000.5007</b> .0647.07	74400		agorendan da fakala kananga							- -	,,	<sup>.</sup>			y Logo nyili a a Sirif ni kaikara sa n				#2479 #/###24279.900	annaine an the AC Information		*******

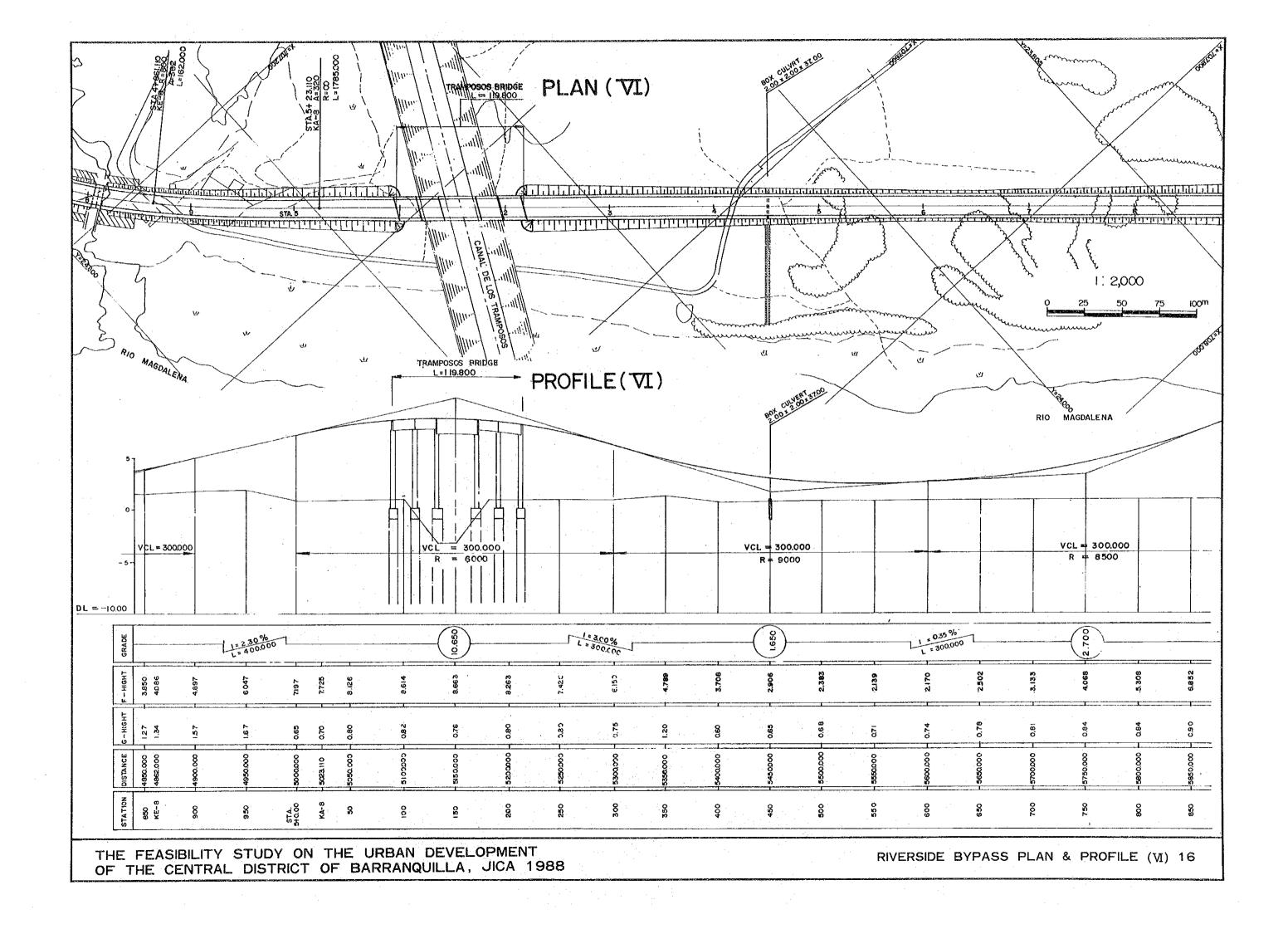


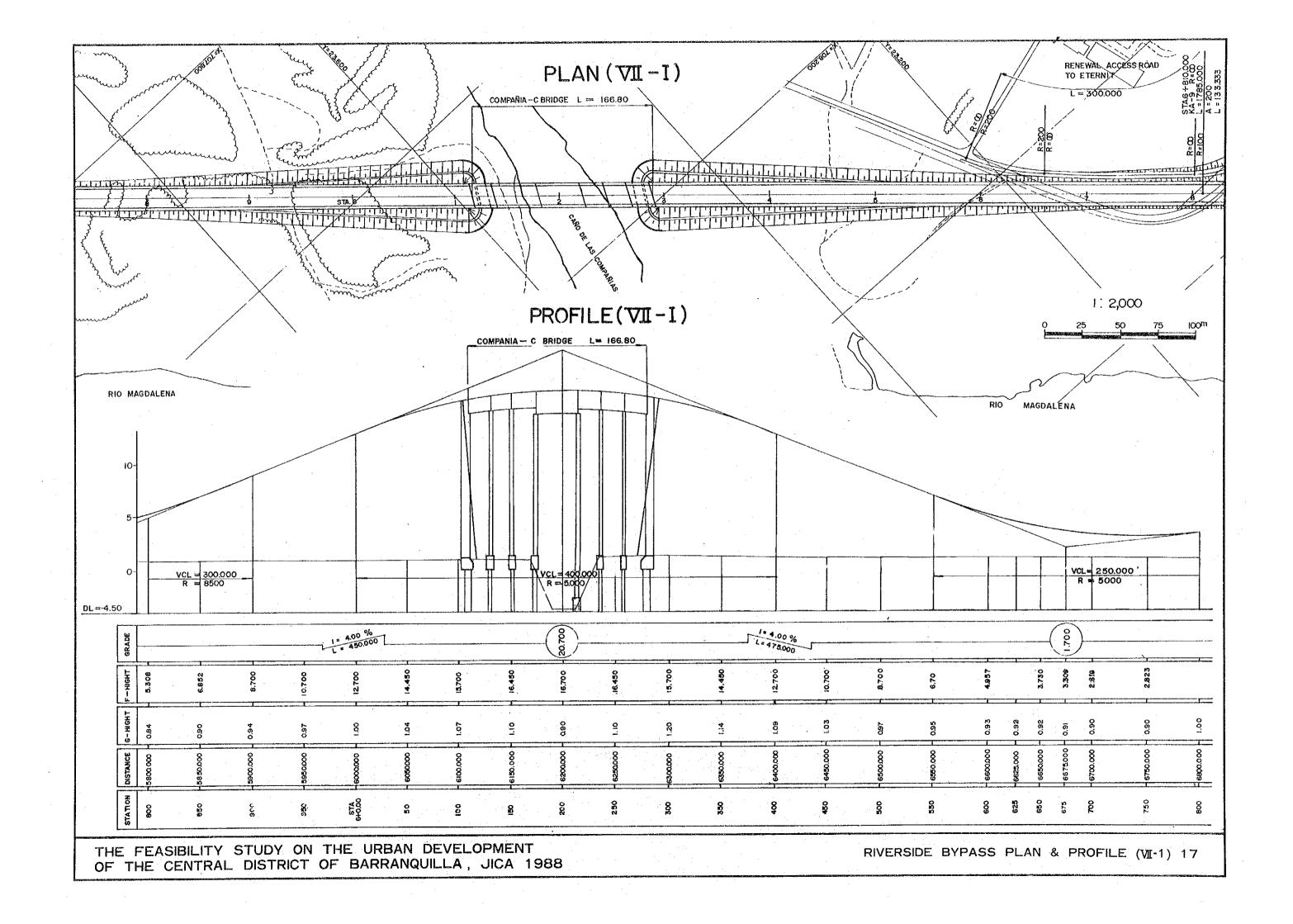


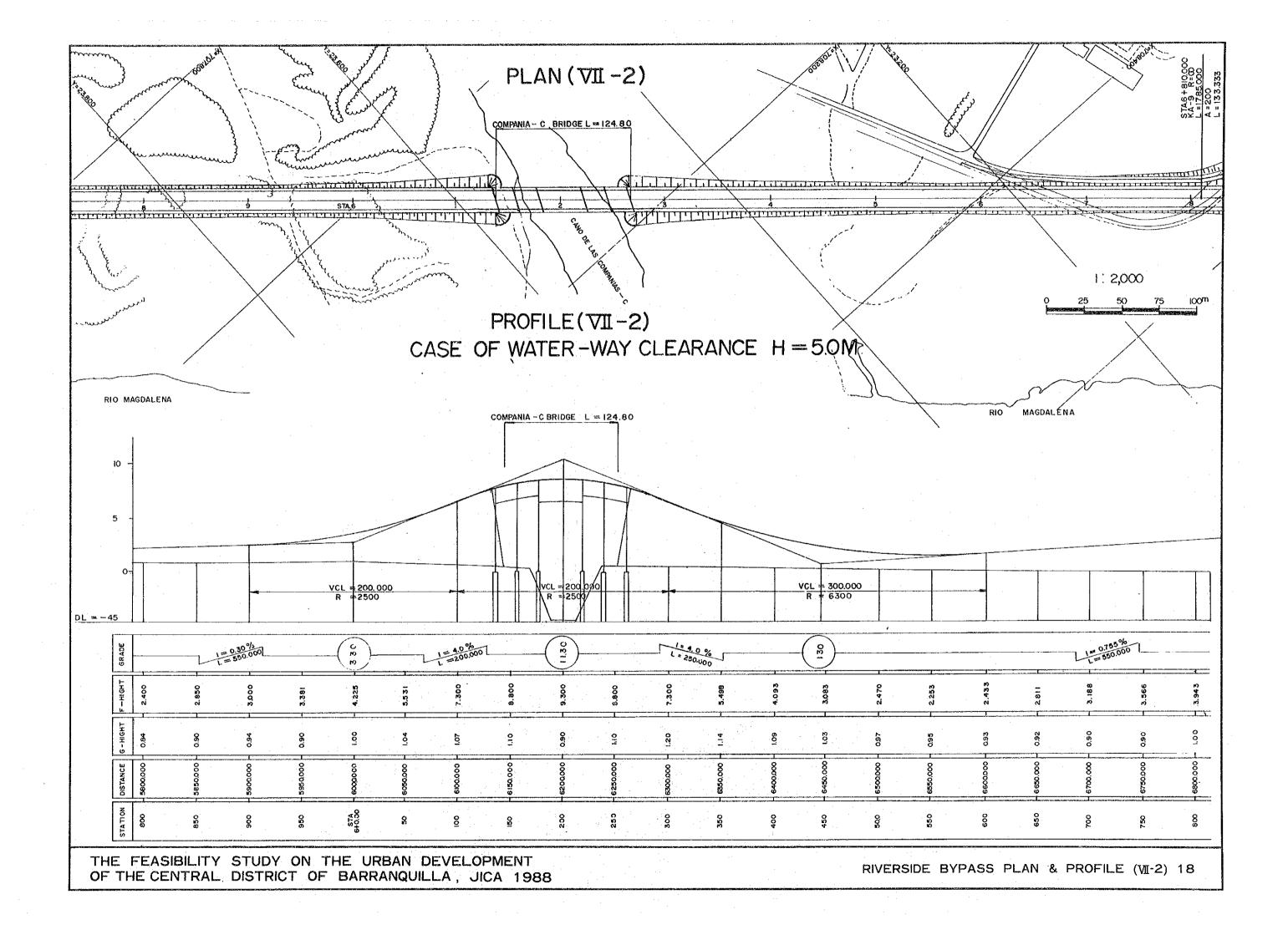


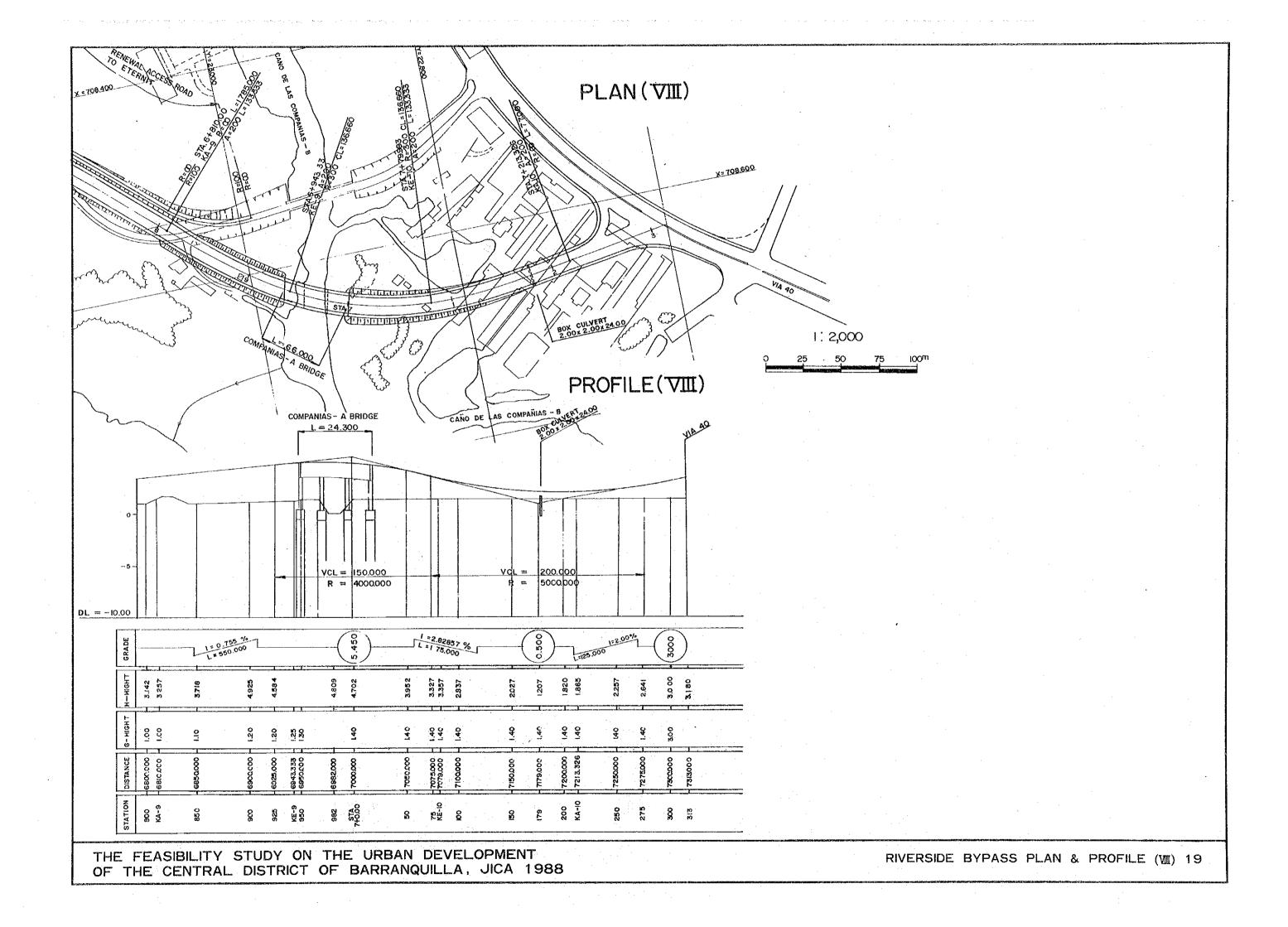


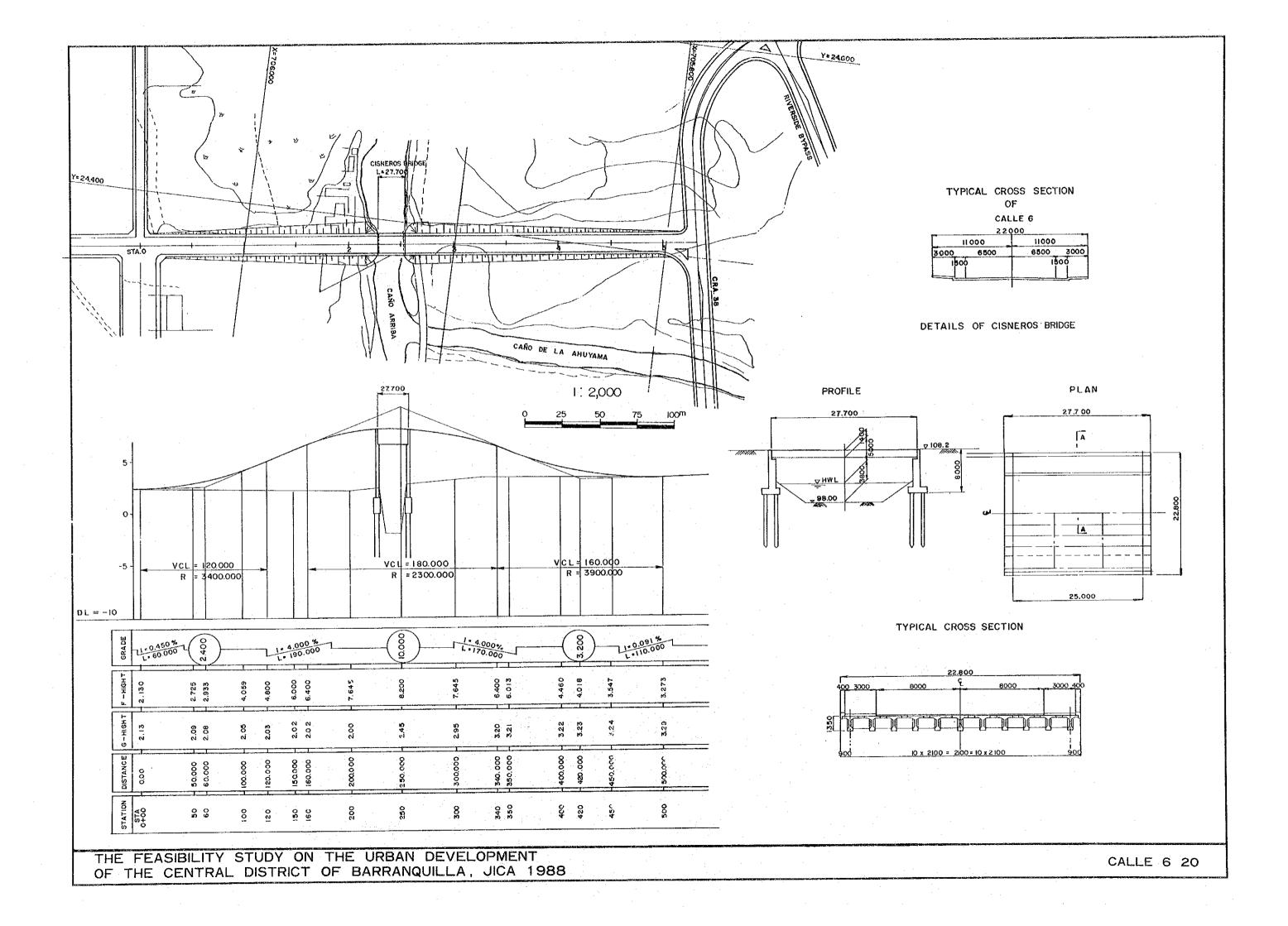


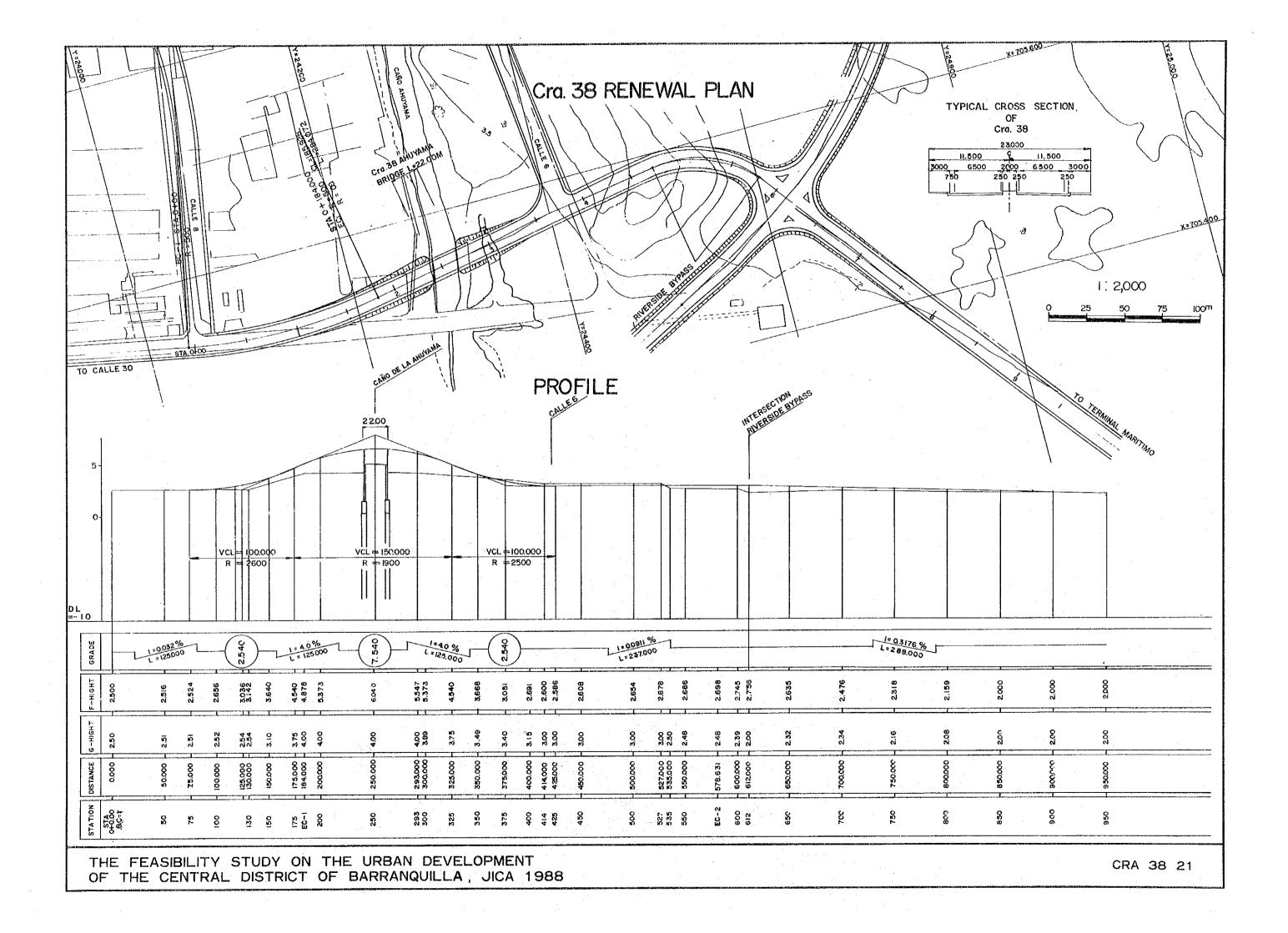


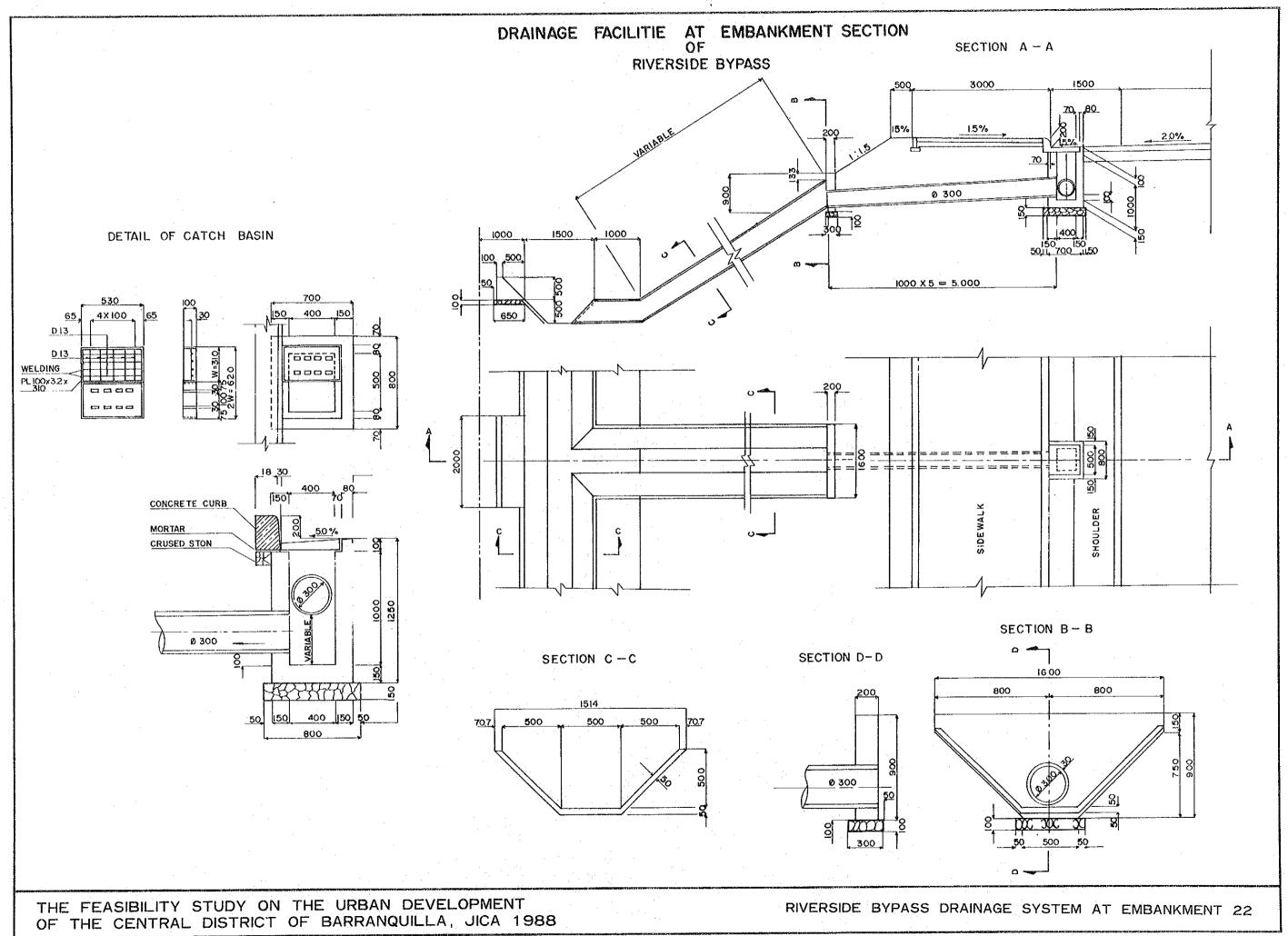


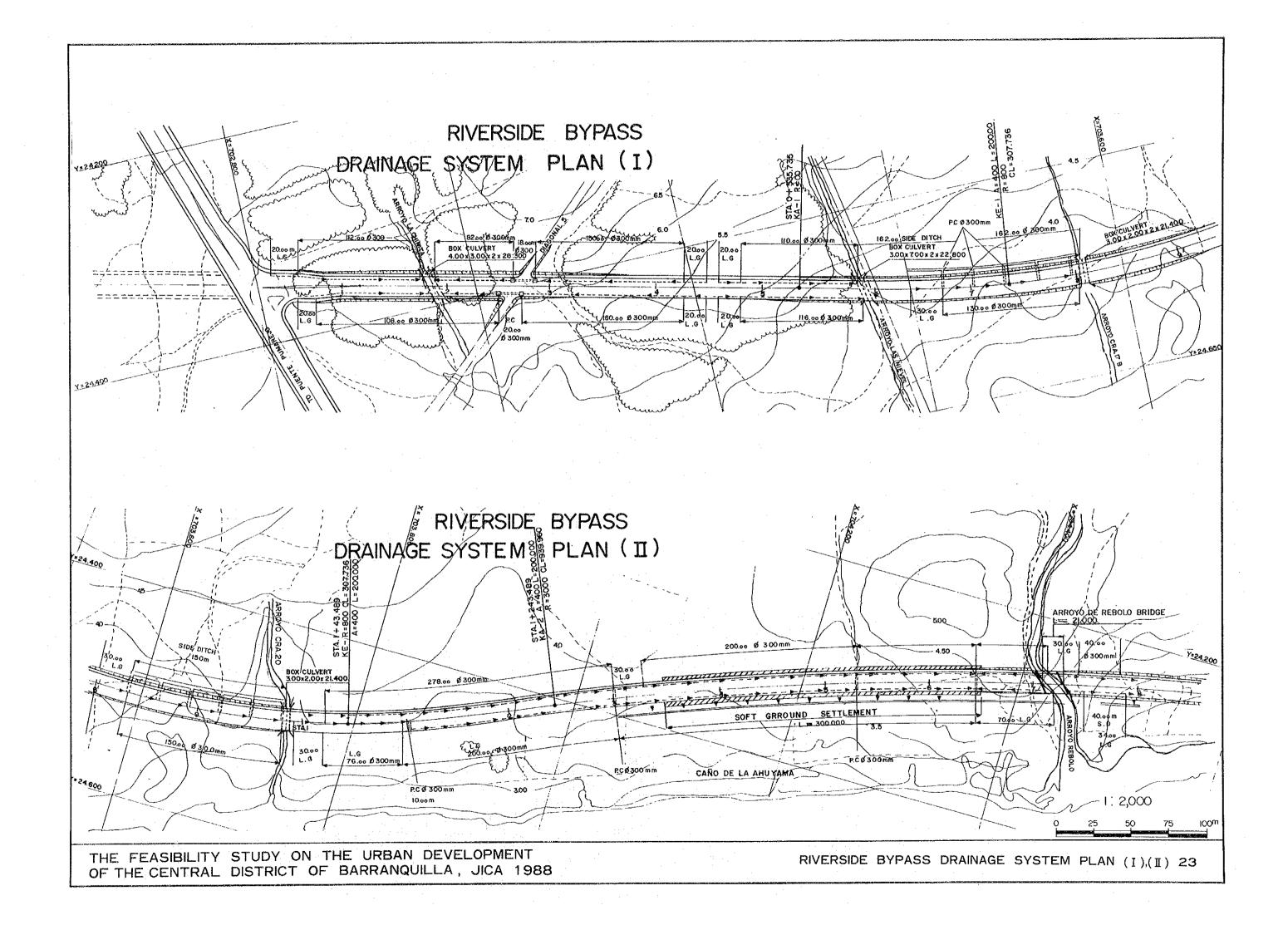


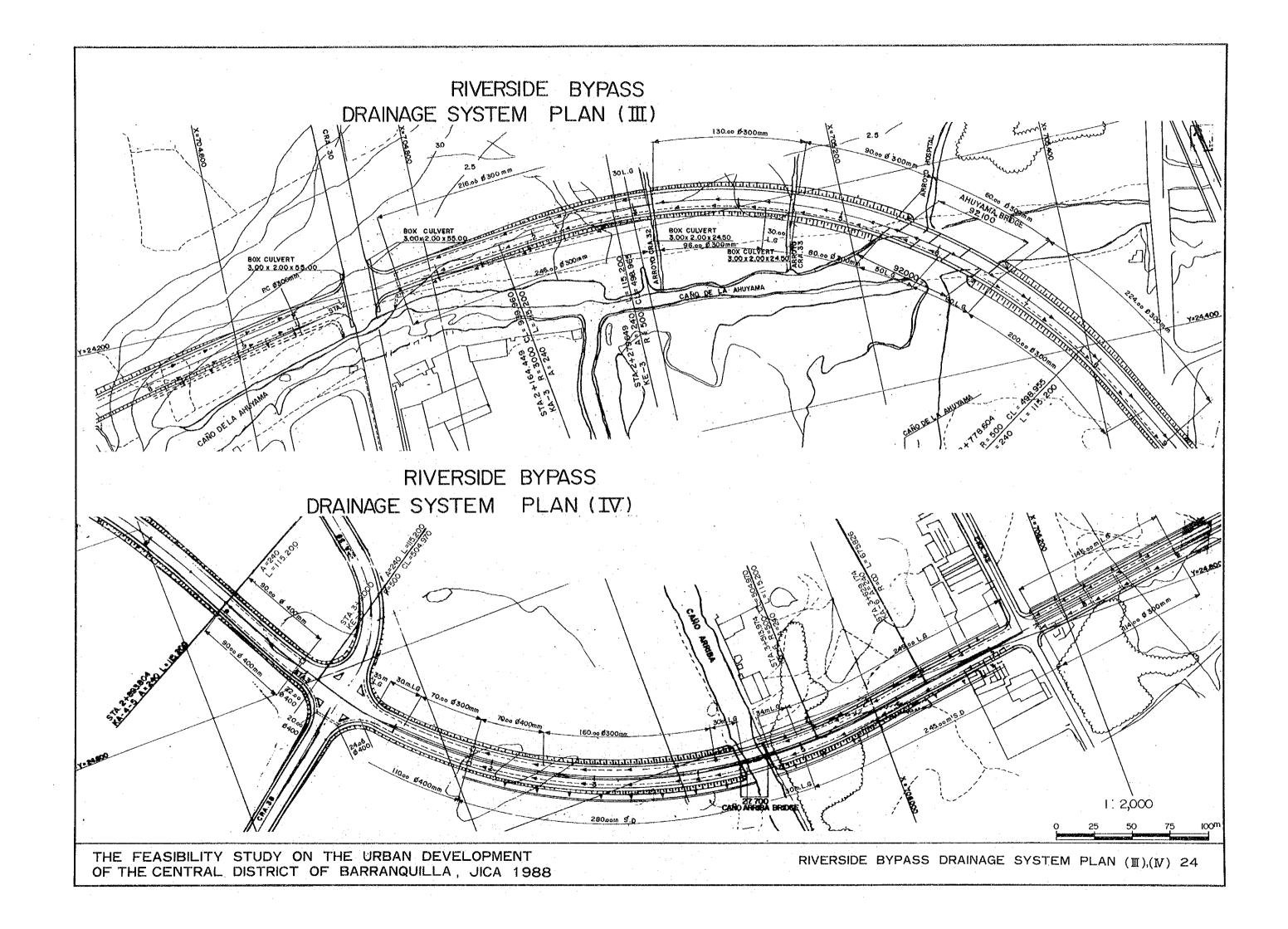


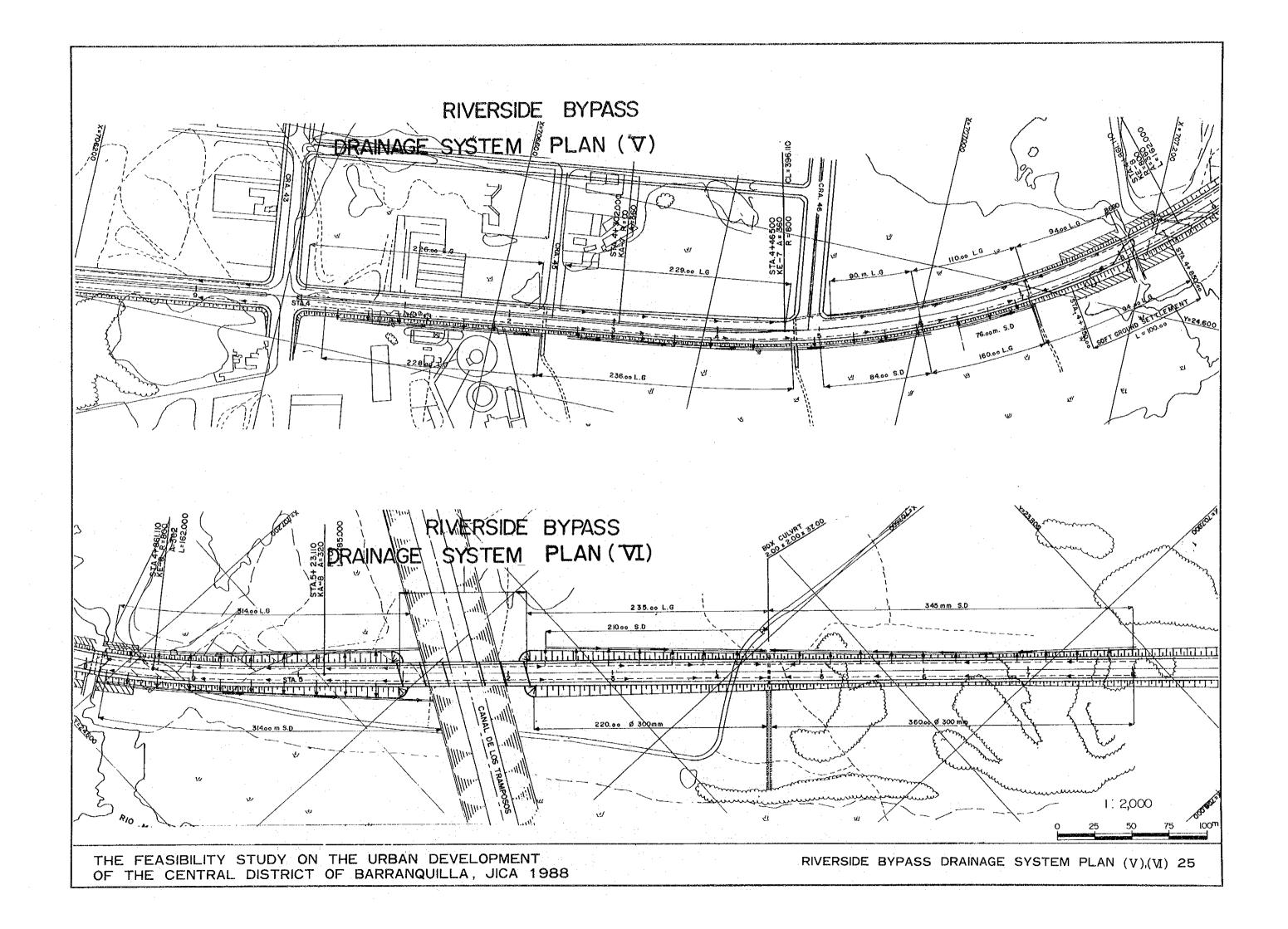


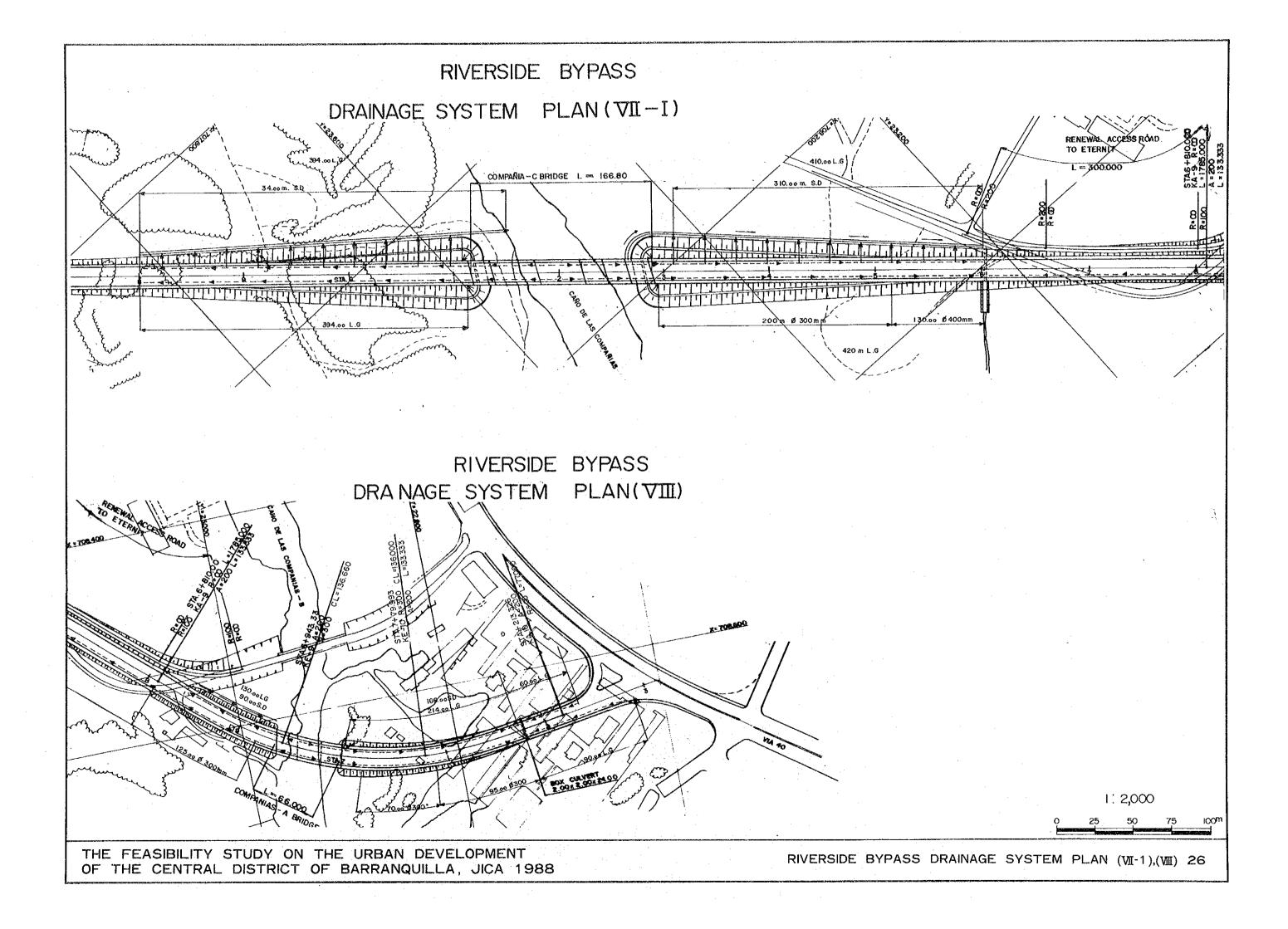


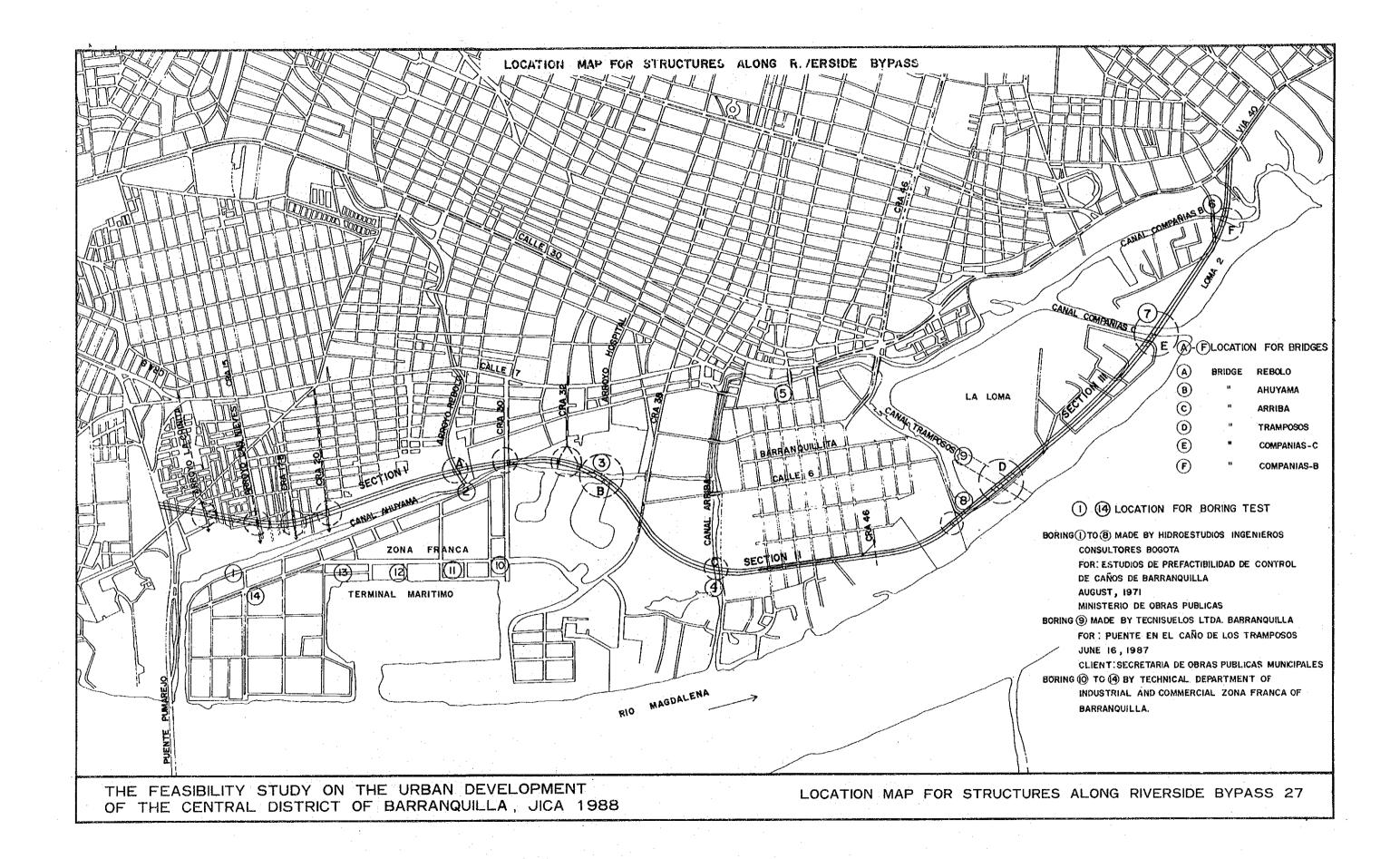


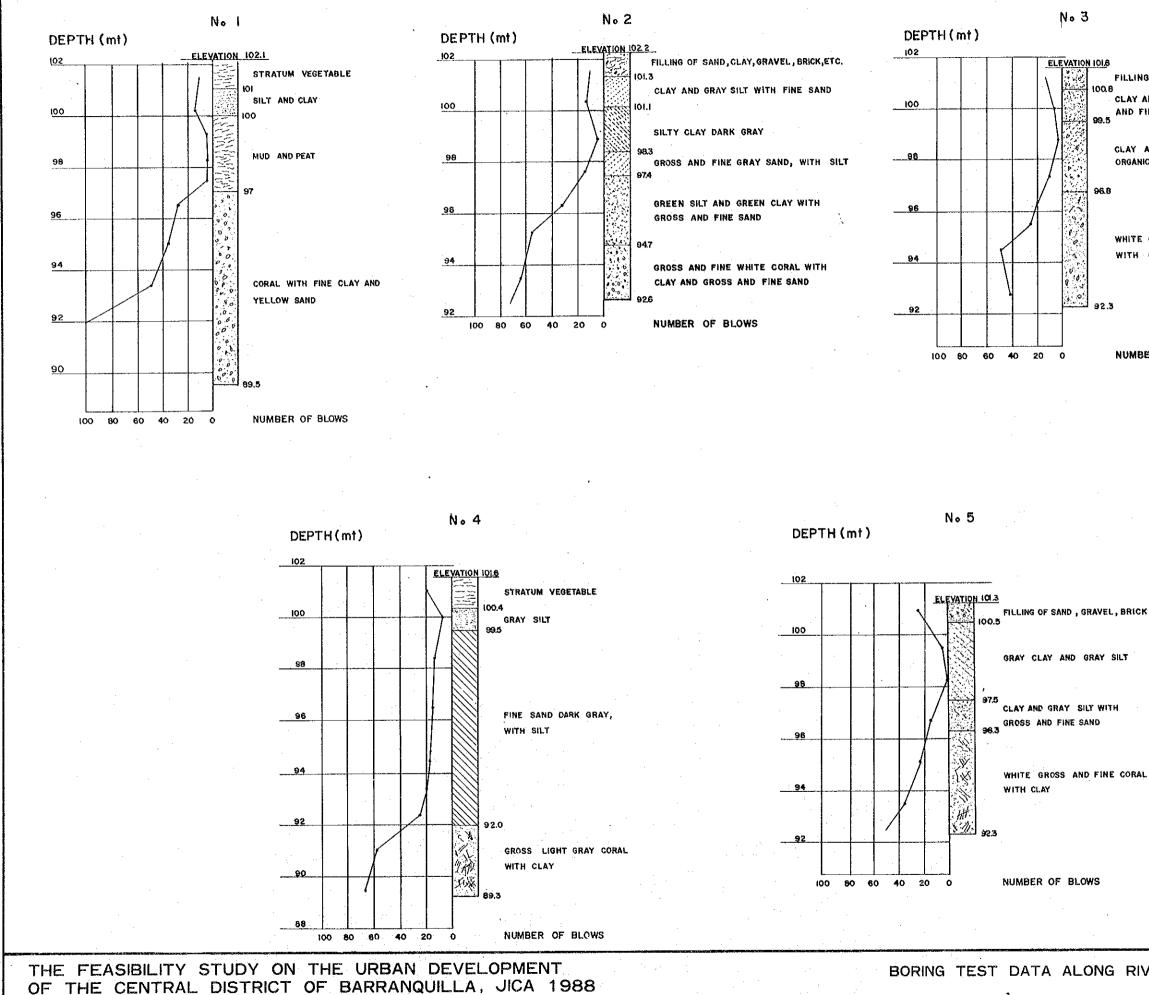










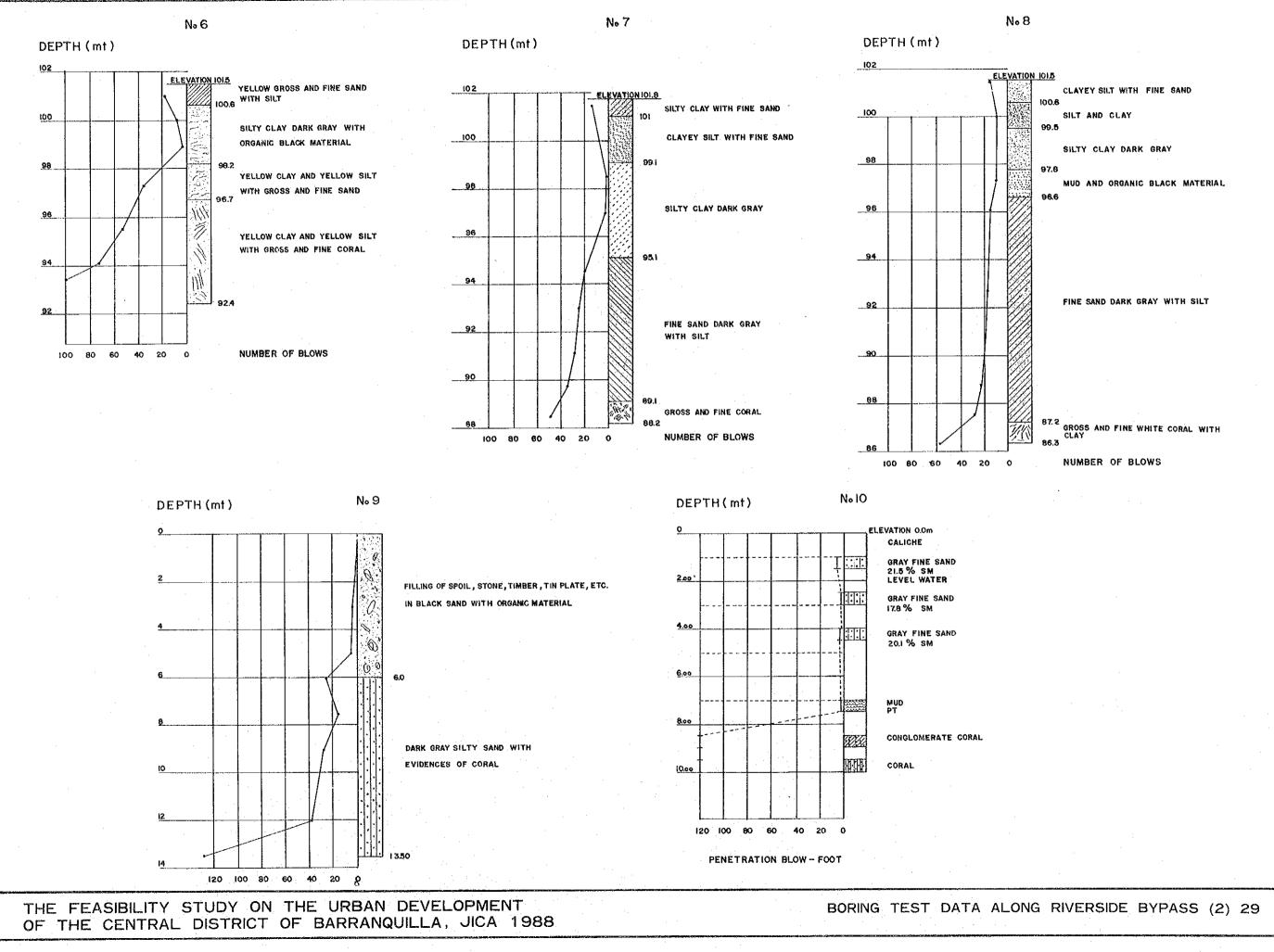


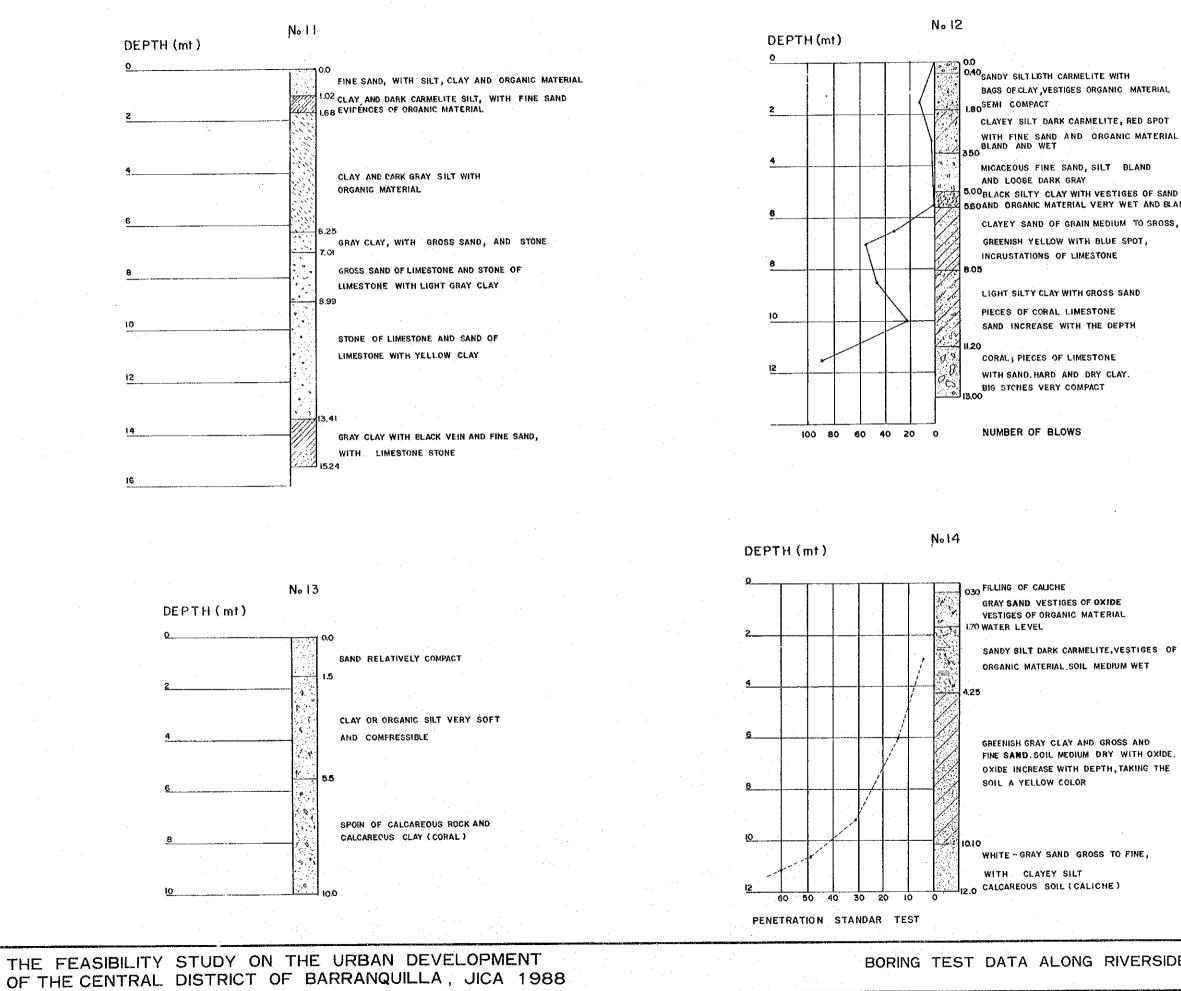
FILLING OF SAND, CLAY, GRAVEL, BRICK, ETC. 100.8 CLAY AND YELLOW SILT GROSS AND FINE SAND CLAY AND BLACK SILT WITH ORGANIC BLACK MATERIAL 96.8 WHITE CORAL GROSS AND FINE WITH CLAY

NUMBER OF BLOWS

92.3

BORING TEST DATA ALONG RIVERSIDE BYPASS (1) 28





BAGS OF CLAY VESTIGES ORGANIC MATERIAL

CLAYEY SILT DARK CARMELITE, RED SPOT WITH FINE SAND AND ORGANIC MATERIAL

5.00 BLACK SILTY CLAY WITH VESTIGES OF SAND 560AND ORGANIC MATERIAL VERY WET AND BLAND

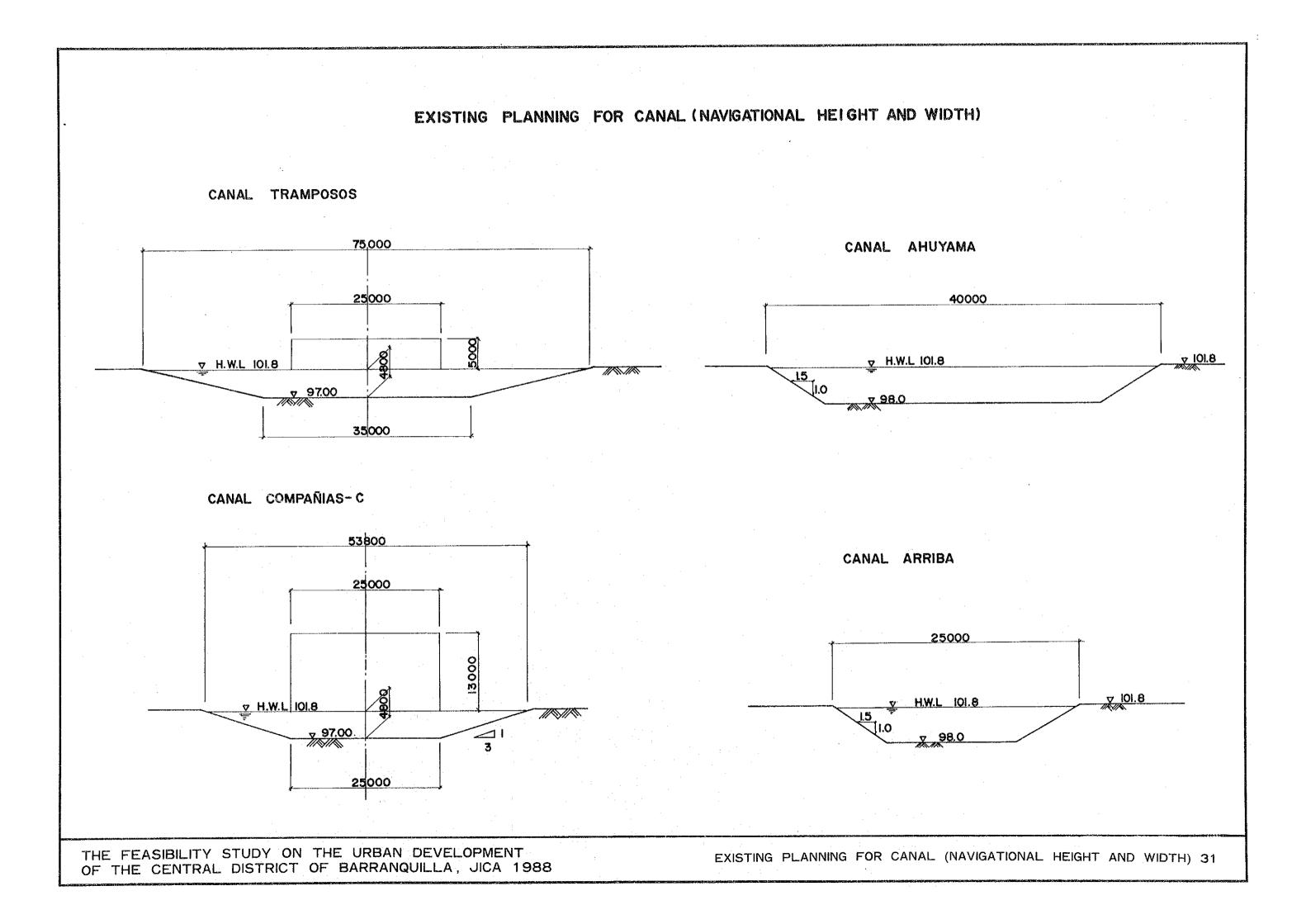
GREENISH YELLOW WITH BLUE SPOT,

LIGHT SILTY CLAY WITH GROSS SAND

SANDY SILT DARK CARMELITE, VESTIGES OF ORGANIC MATERIAL, SOIL MEDIUM WET

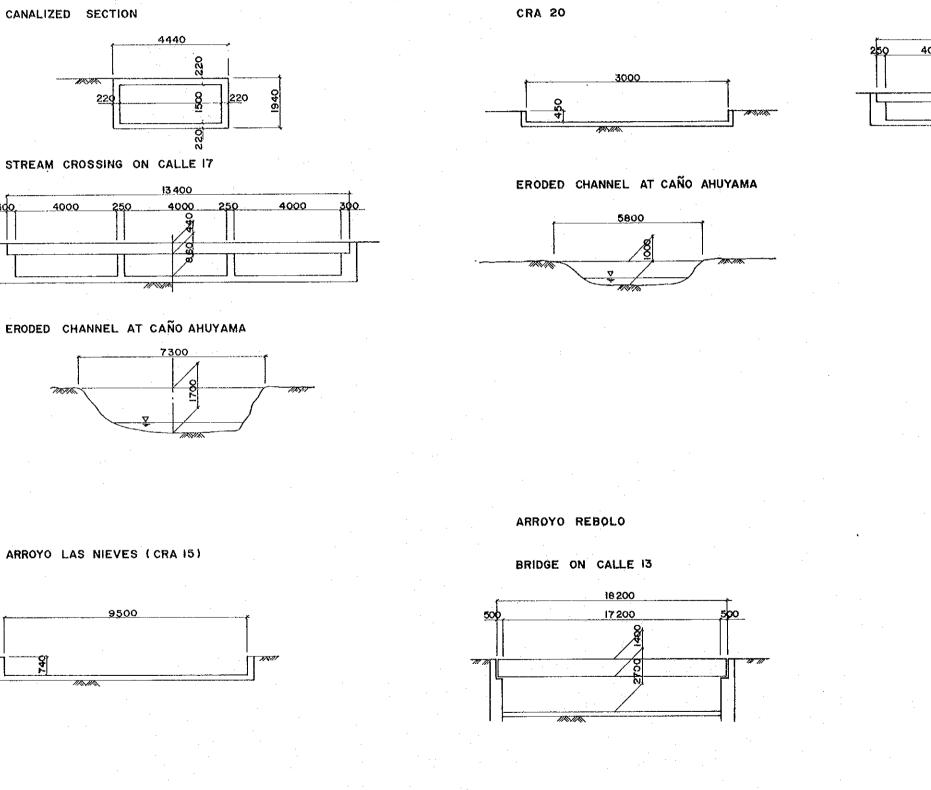
GREENISH GRAY CLAY AND GROSS AND FINE SAND, SOIL MEDIUM DRY WITH OXIDE. OXIDE INCREASE WITH DEPTH, TAKING THE

BORING TEST DATA ALONG RIVERSIDE BYPASS (3) 30



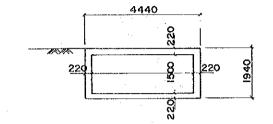
#### EXISTING CONDITION OF ARROYOS ALONG RIVERSIDE BYPASS

ARROYO CRA 20

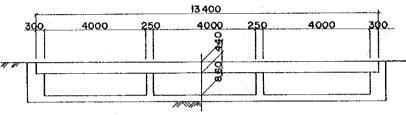


ARROYO LA CHINITA (CRA 8)

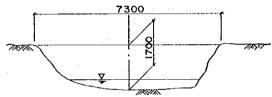
CANALIZED SECTION

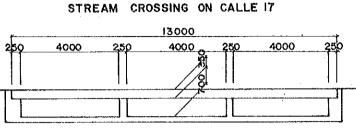


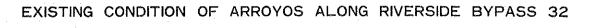
STREAM CROSSING ON CALLE 17



ERODED CHANNEL AT CAÑO AHUYAMA



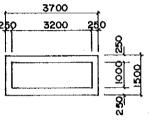




THE FEASIBILITY STUDY ON THE URBAN DEVELOPMENT OF THE CENTRAL DISTRICT OF BARRANQUILLA, JICA 1988

#### ARROYO CRA 32

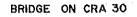
CANALIZED SECTION AT CAÑO AHUYAMA

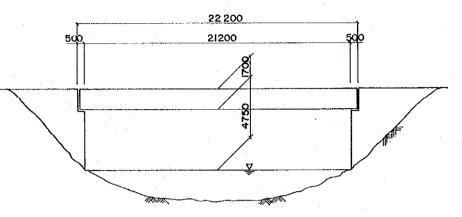


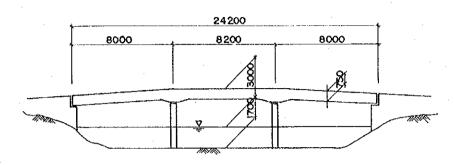
## EXISTING BRIDGES FOR CAÑO AHUYAMA, ARRIBA AND COMPAÑIAS

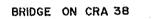
BRIDGE ON CAÑO AHUYAMA

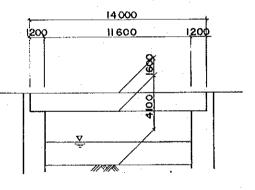
BRIDGE ON CAÑO ARRIBA



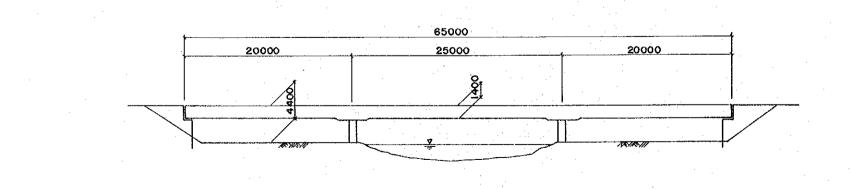




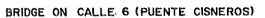




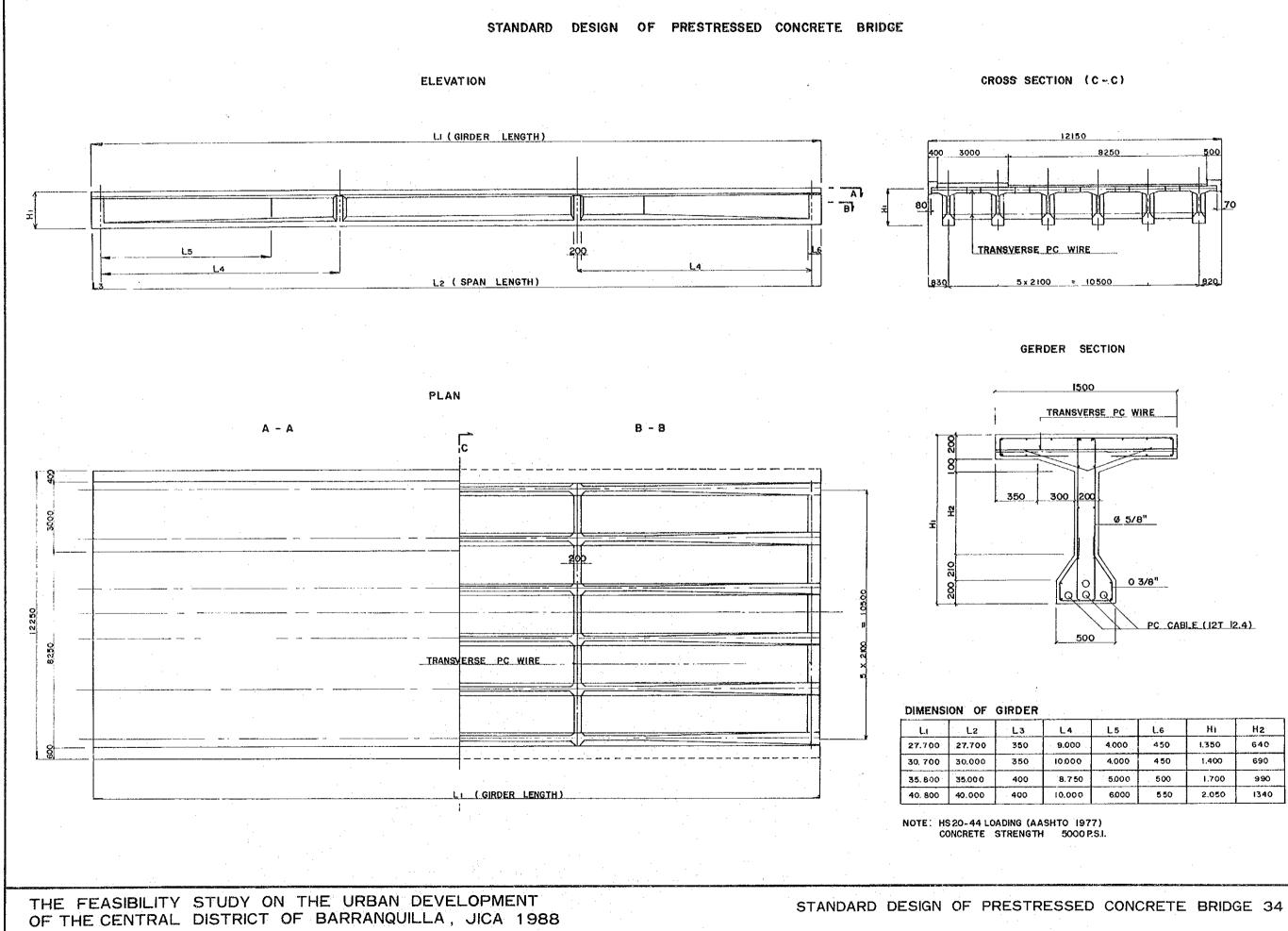




THE FEASIBILITY STUDY ON THE URBAN DEVELOPMENT OF THE CENTRAL DISTRICT OF BARRANQUILLA, JICA 1988







	L4.	L5	L.6	нì	H2		
	9.000	4.000	450	1.350	640		
	000.01	4.000	450	1.400	690		
	8.750	5.000	500	1.700	990		
• • • •	10.000	6000	5 50	2.050	1340		

