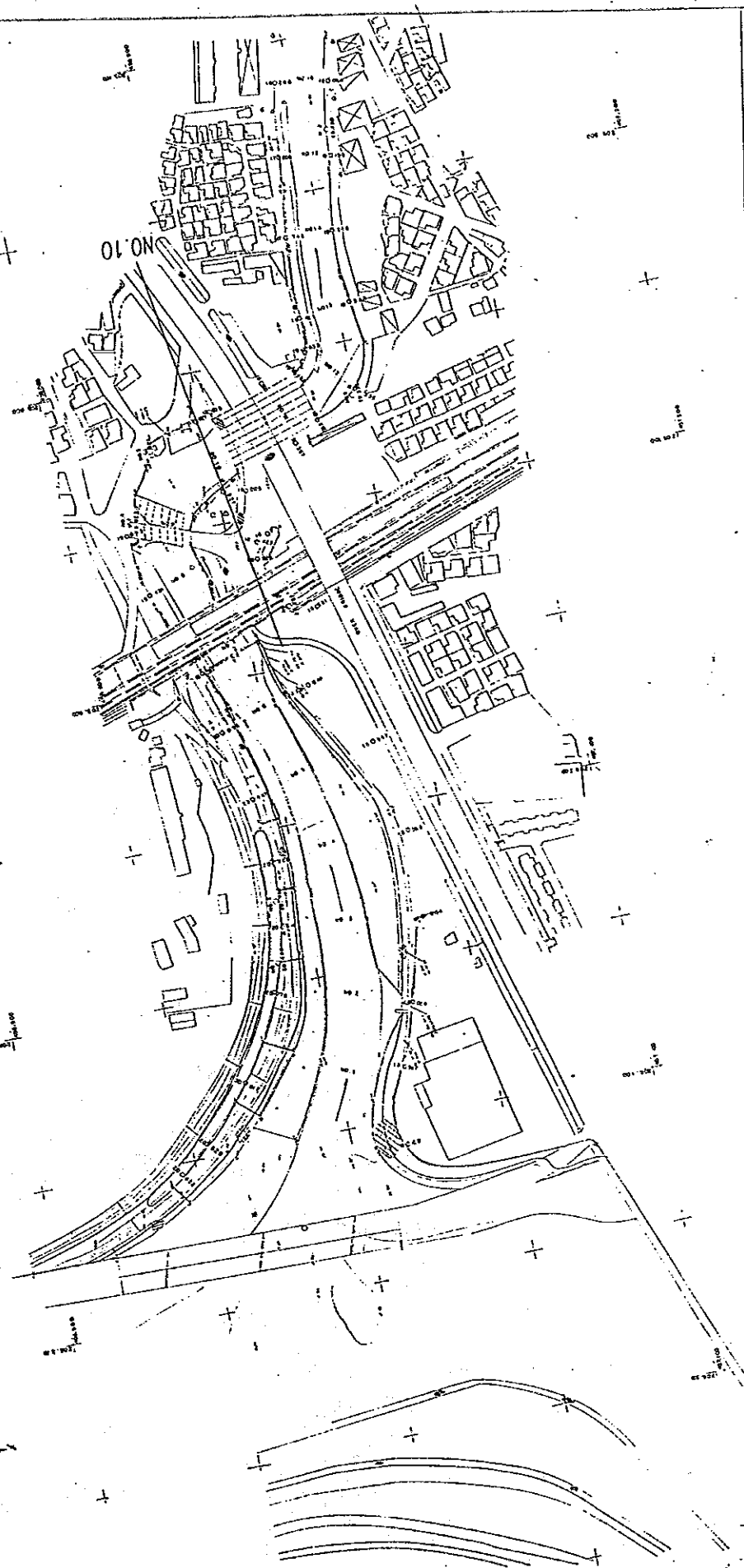
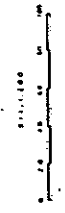


5. Location Map of the Expected Inundation Areas

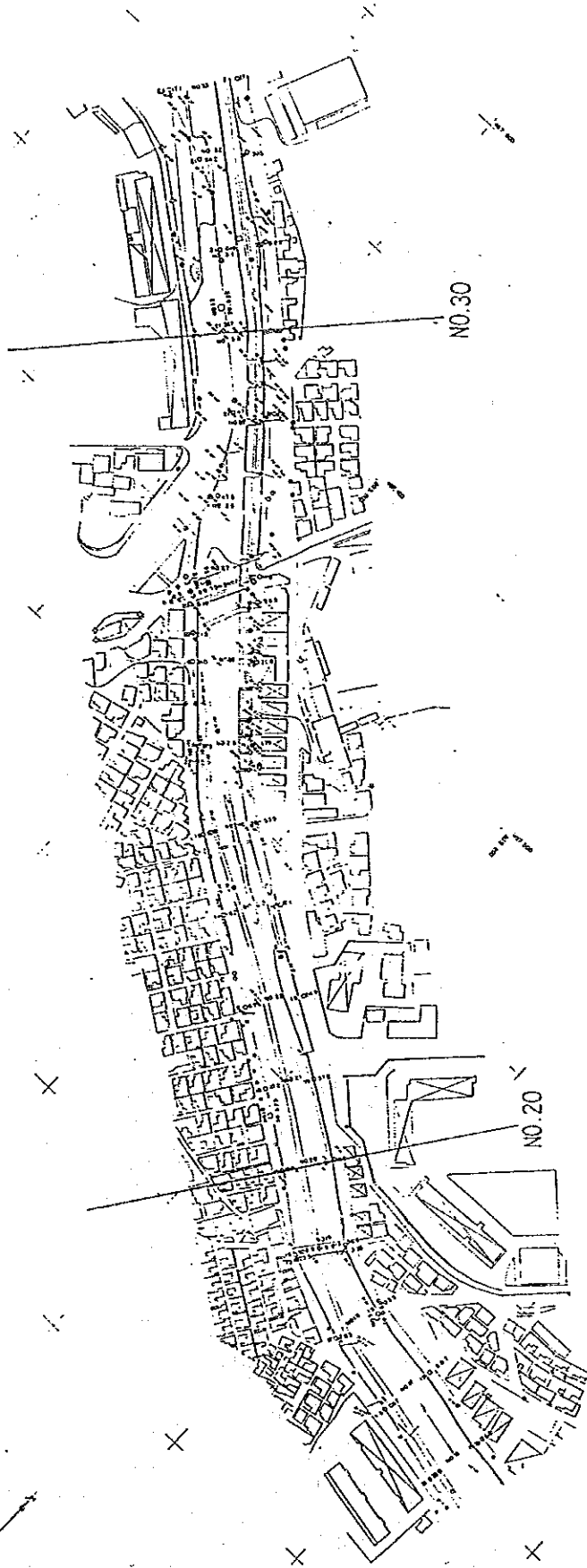
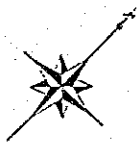
13
PLAN
1



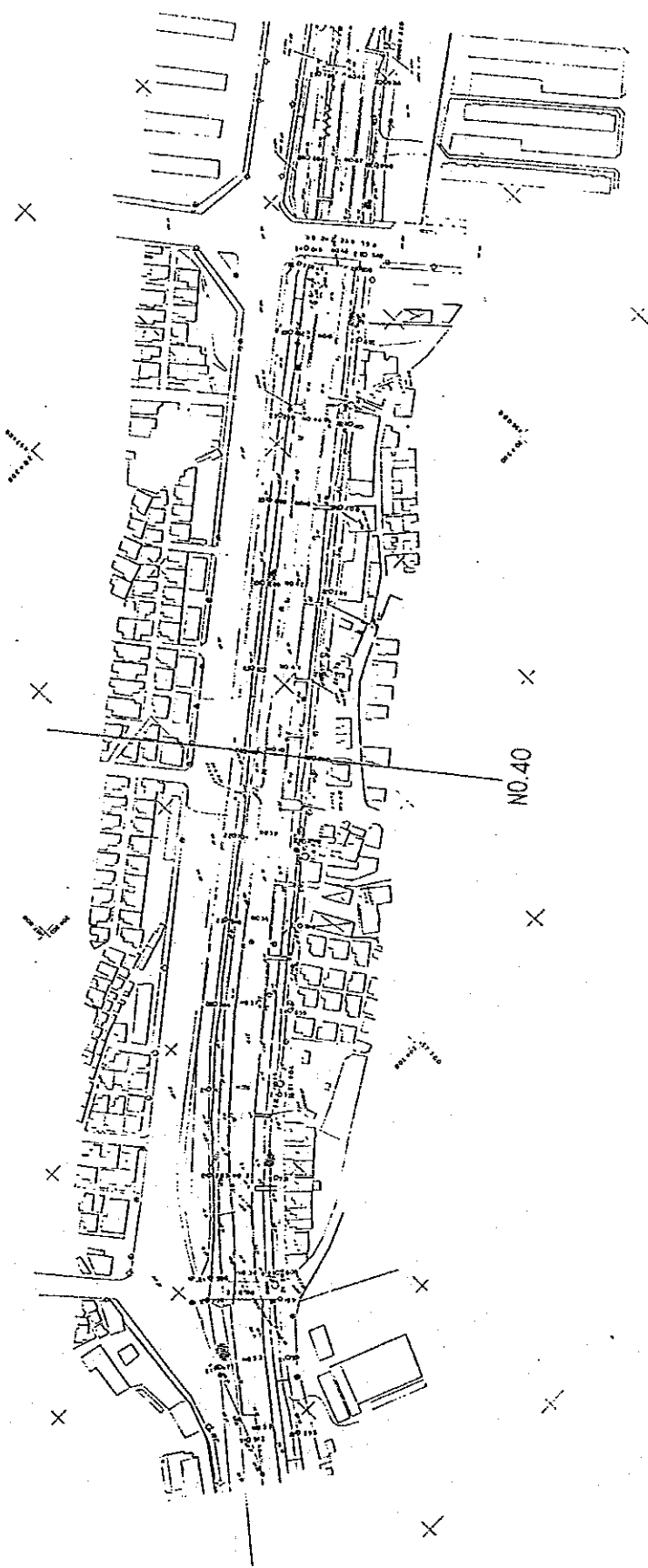
DATE	
SCALE	1" = 100'
PROJECT	UT 1
CLIENT	JICA STUDY TEAM
DESIGNER	AT SYSTEM
DATE	1988.11.31
The Study on River Environment Improvement for The Rehabilitation of the River System in Seoul, Metropolitan and its Vicinity	



1.3
APPENDIX
2



DATE	
NO.	
PROJECT	
DATE	
BY	
SCALE	
SOURCE	JCS STUDY TEAM
DATE	1977
BY	JCS STUDY TEAM
SCALE	AS SHOWN
THE STUDY ON RIVER ENVIRONMENT IMPROVEMENT FOR THE TRIBUTARIES OF THE RIVER SYSTEM IN SANGHVI MUNICIPALITY AND ITS VICINITY	

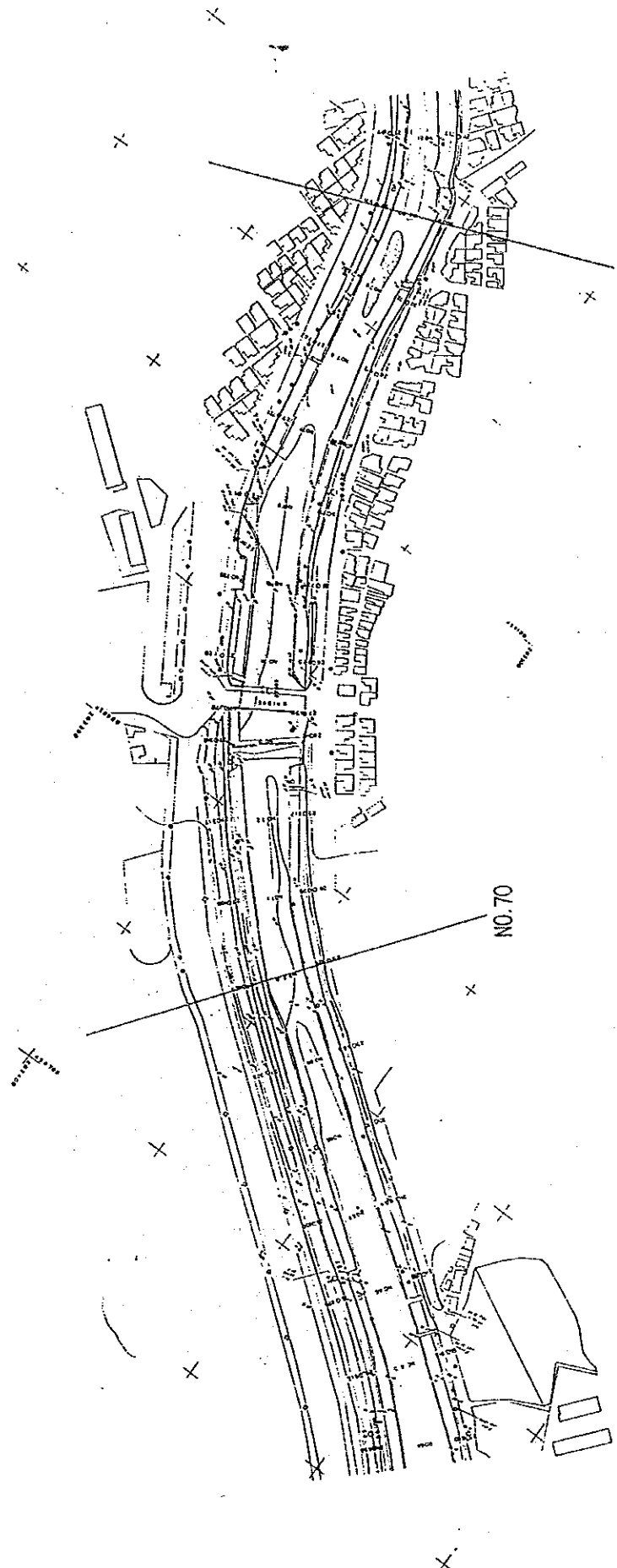


DATE	
BY	
FOR	
PROJECT	DESIGN STUDY
NO.	13
SHEET	3

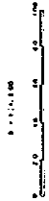


The Study on River Environment Impairment for the Rehabilitation of the River System in Seoul Municipality and Its Vicinity

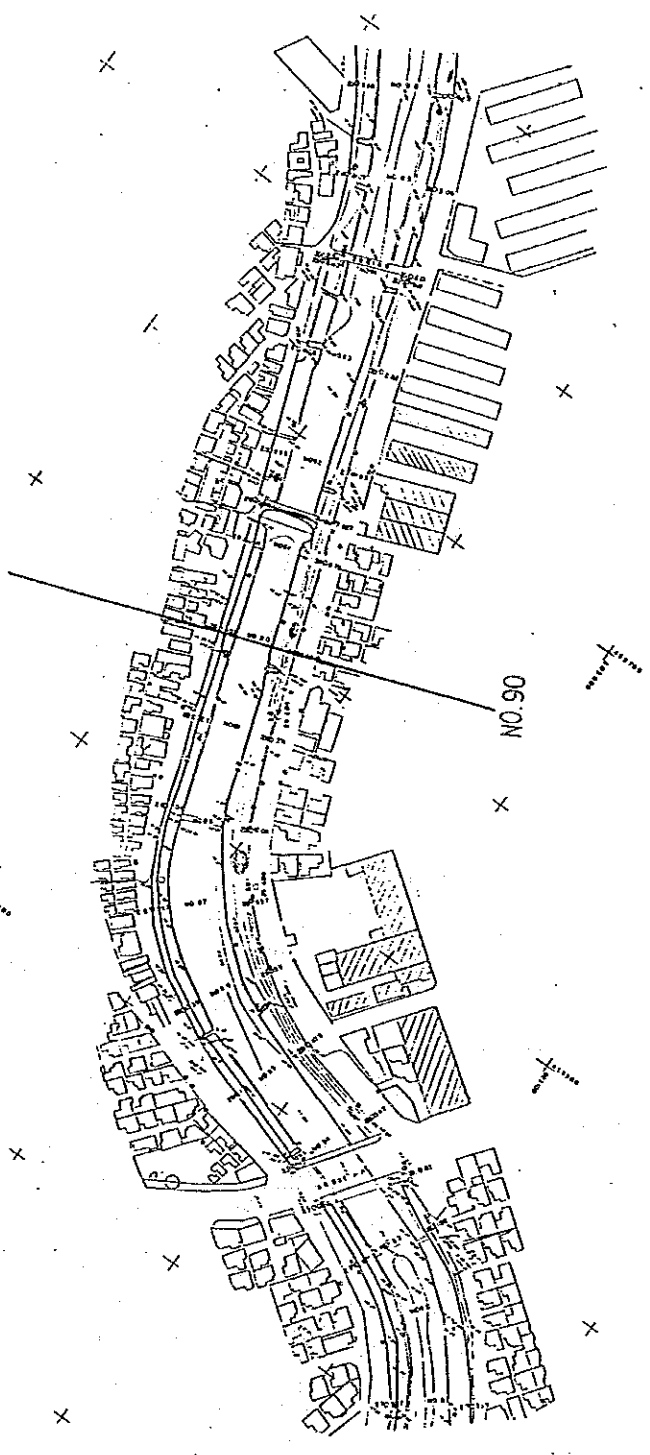
13
 STUDY UNIT
 5



DATE	
NAME	STUDY TEAM
NO.	
DATE	
The Study on River Reclamation Program for the Rehabilitation of the River System in Seoul Municipality and its Vicinity	

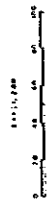


13
PLANNING
6

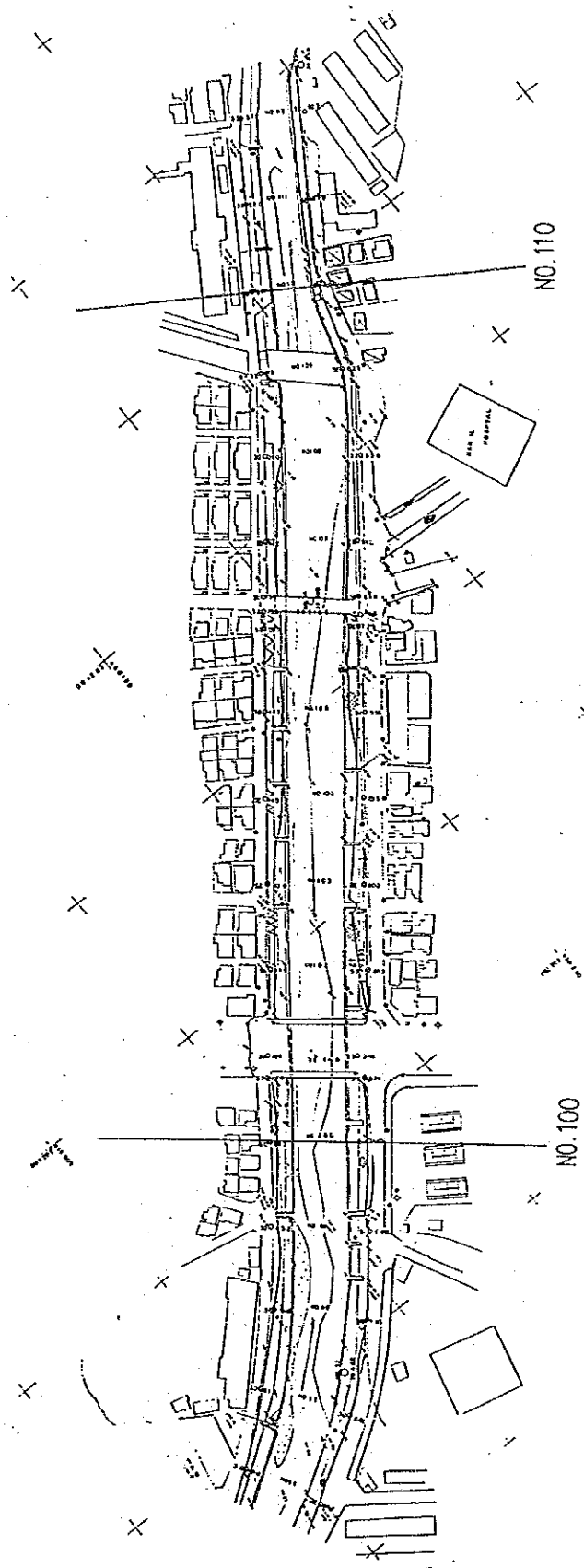


NO.	
DATE	
SCALE	1" = 20'
PROJECT	SEASIDE STUDY TEAM
DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	

The Study on River Environment Improvement
of the River System in Seoul Municipality and Its Vicinity



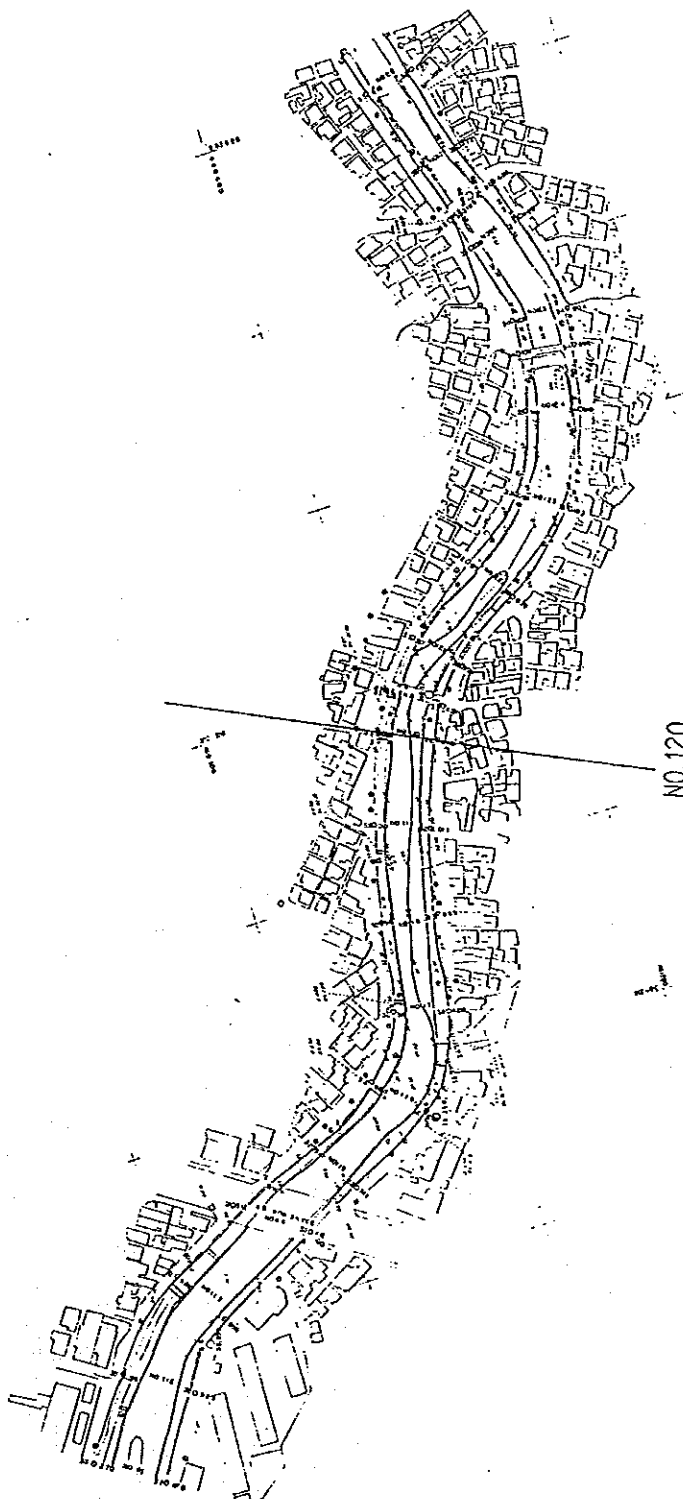
13
 7
 7



NO.	
DATE	
SCALE	1" = 100'
PROJECT	JICA STUDY TEAM
DESIGNER	
DATE	
REVISION	
The Study on River Environment Improvement in the Vicinity of the River System in Seoul, Suwon, and Incheon	

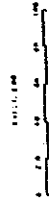


13
B



NO.	
DATE	
PROJECT	
SCALE	
DESIGNER	
CHECKER	
APPROVED	
DATE	
PROJECT	
SCALE	
DESIGNER	
CHECKER	
APPROVED	
DATE	

The Study on River Environment Improvement for the Rehabilitation of the River System in Seoul Municipality and Its Vicinity



13
9

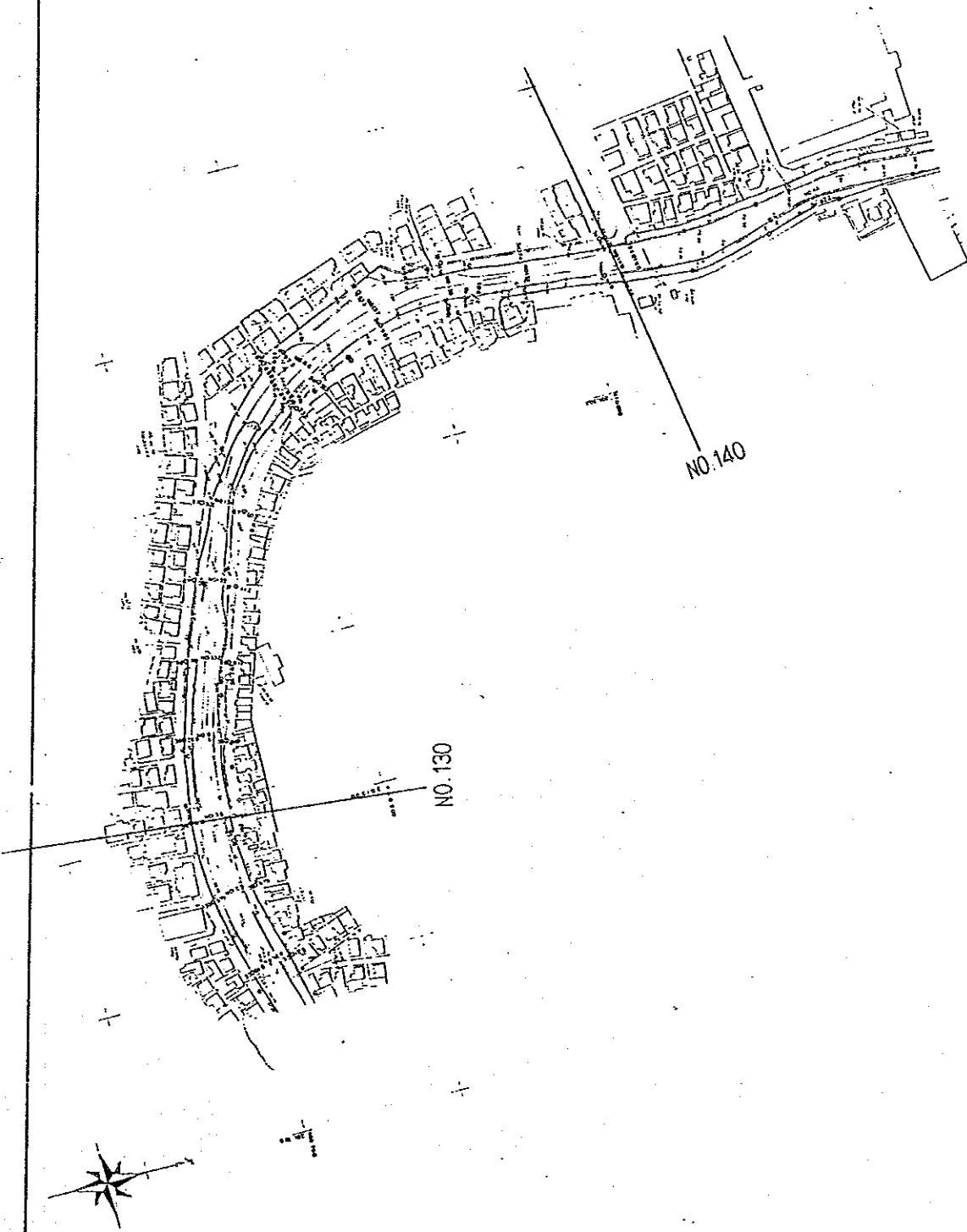
U.S. ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL DIVISION
OFFICE OF RESEARCH AND DEVELOPMENT
WASHINGTON, D.C. 20460

U.S. ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL DIVISION
OFFICE OF RESEARCH AND DEVELOPMENT
WASHINGTON, D.C. 20460

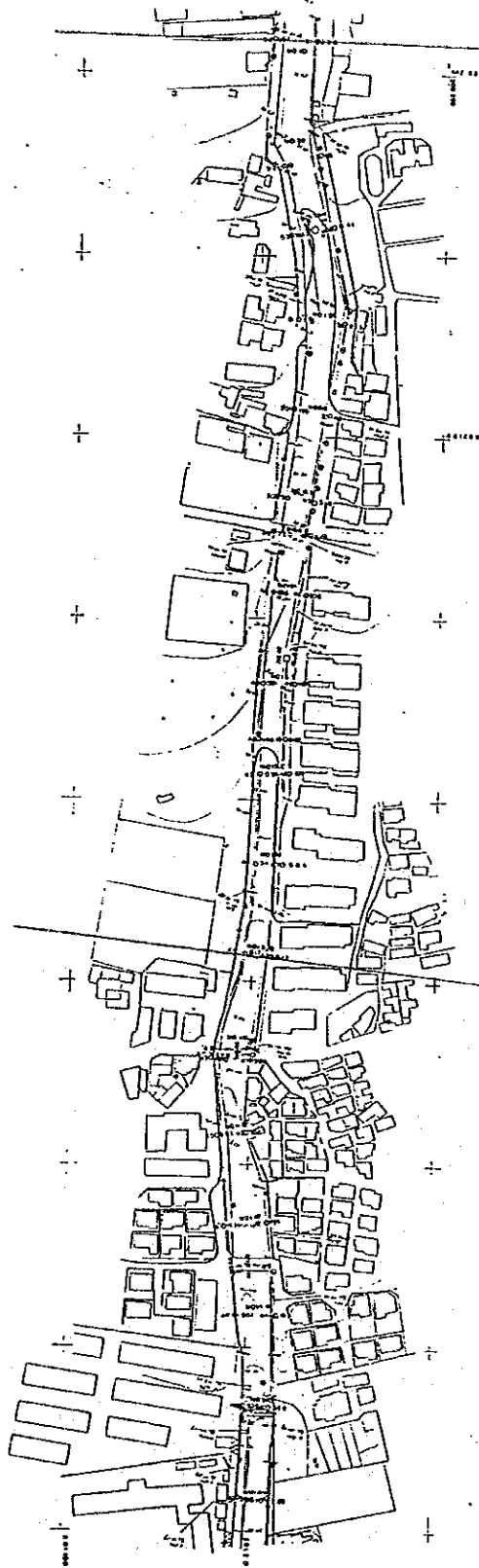
LEGEND



The Study on River Environment Improvement for the Tributaries
of Han River System in Seoul Municipality and Its Vicinity

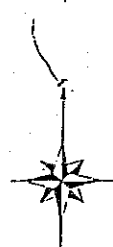


13
10



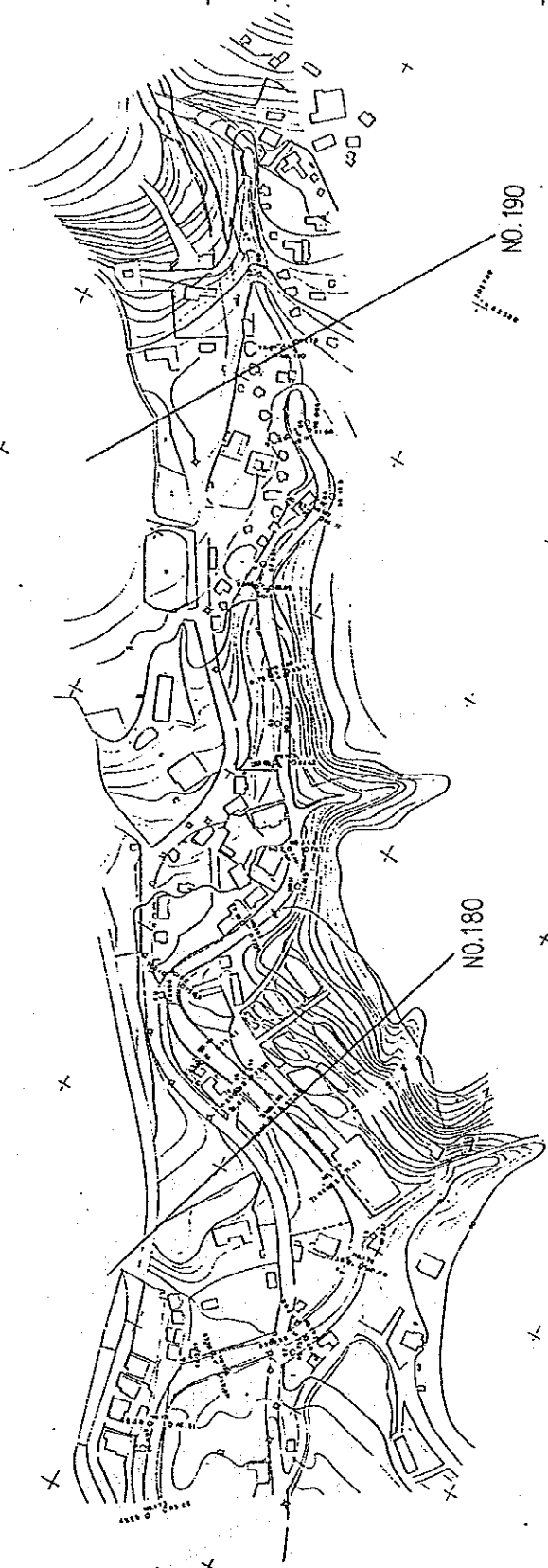
NO. 150

NO. 160



NO.	
DATE	
BY	
SCALE	1:1000
PROJECT	THE STUDY ON RIVER ENVIRONMENT IMPROVEMENT FOR THE TRIBUTARIES OF ILSAN RIVER SYSTEM IN SEWAL MUNICIPALITY AND ITS VICINITY

13
12



NO. 190

NO. 180

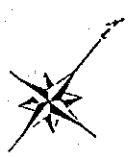
LEGEND	
NO.	
DATE	07.12
ISSUED BY	JICA STUDY TEAM
SCALE	1:50,000
PROJECT	Study on River Environmental Improvement for the Tribulation of the River Saitama in Sewai Municipality and its Vicinity



13
 13



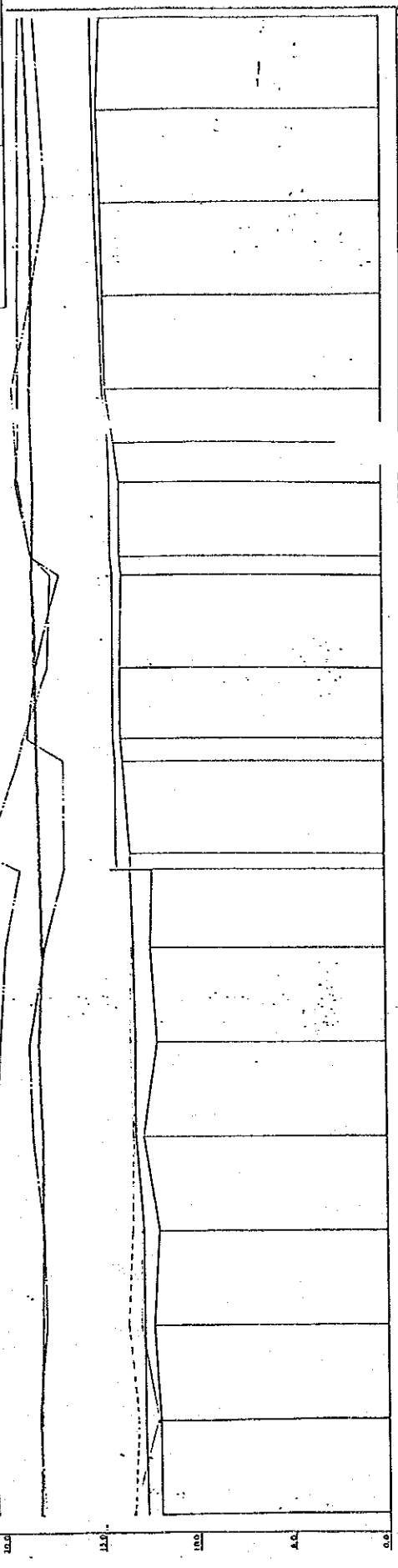
13	13
SOURCE: U.S. GEOLOGICAL SURVEY TITLE: A STUDY TEAM DATE: 1960 BY: J. J. JAMES PROJECT: THE STUDY ON RIVER ENVIRONMENT IMPROVEMENT OF THE RIVER SYSTEM IN SOUTH ALABAMA AND ITS VICINITY	



12
 平江河环境
 1

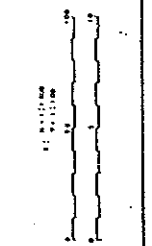
例	不等放計器水位
_____	現況右岸高
_____	現況左岸高
_____	現況高水放流(右岸)
_____	現況高水放流(左岸)

Station 11.000
 Station 10.000
 Station 9.000
 Station 8.000
 Station 7.000
 Station 6.000
 Station 5.000
 Station 4.000
 Station 3.000
 Station 2.000
 Station 1.000



Station	Water Level (m)	Water Level (ft)	Water Level (m)	Water Level (ft)	Water Level (m)	Water Level (ft)	Water Level (m)	Water Level (ft)	Water Level (m)	Water Level (ft)	Water Level (m)	Water Level (ft)	Water Level (m)	Water Level (ft)	Water Level (m)	Water Level (ft)	Water Level (m)	Water Level (ft)
11.000	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.900	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.800	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.700	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.600	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.500	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.400	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.300	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.200	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.100	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46
10.000	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46	10.150	33.46

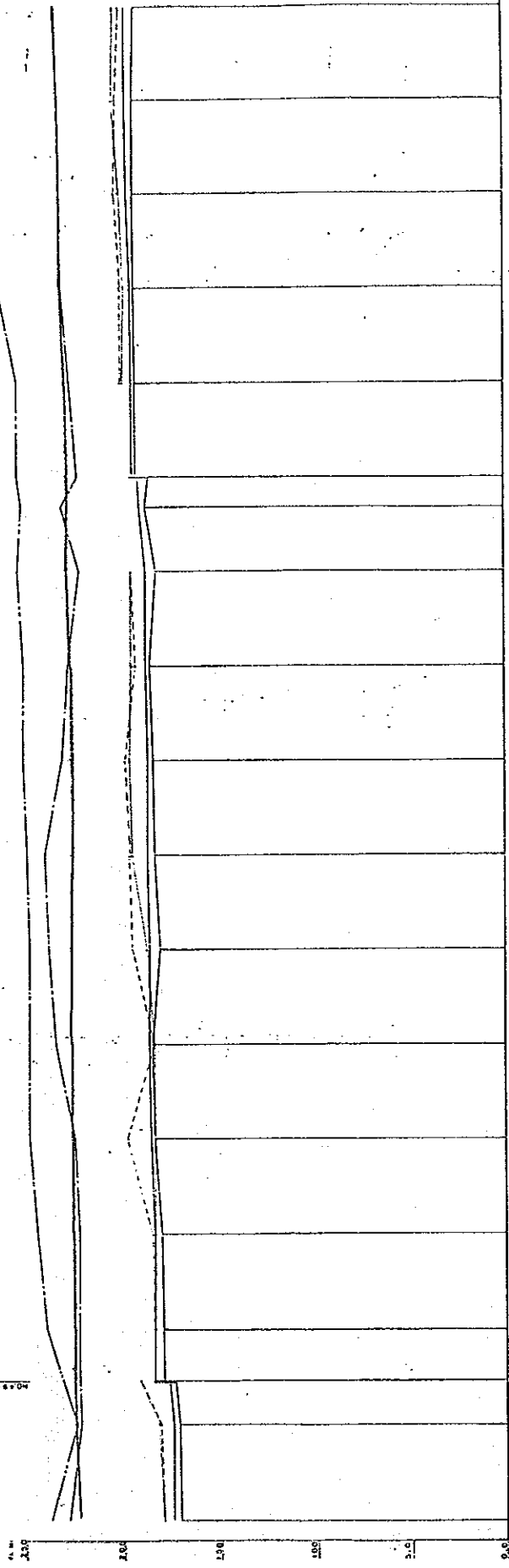
PROJECT : JICA STUDY TEAM
 DATE : 11/11/88
 DRAWING NO. : 11-11-11
 SHEET NO. : 11-11-11



The Study on River Environment Improvement for the Tributaries of the River System in Seoul Municipality and its vicinity

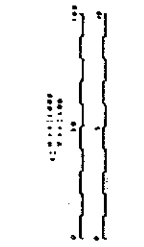
12
 PUNCHES
 4

1033+30
 1033+20
 1033+10
 1033+00
 1032+50
 1032+00
 1031+50
 1031+00
 1030+50
 1030+00
 1029+50
 1029+00
 1028+50
 1028+00
 1027+50
 1027+00
 1026+50
 1026+00
 1025+50
 1025+00
 1024+50
 1024+00
 1023+50
 1023+00
 1022+50
 1022+00
 1021+50
 1021+00
 1020+50
 1020+00
 1019+50
 1019+00
 1018+50
 1018+00
 1017+50
 1017+00
 1016+50
 1016+00
 1015+50
 1015+00
 1014+50
 1014+00
 1013+50
 1013+00
 1012+50
 1012+00
 1011+50
 1011+00
 1010+50
 1010+00
 1009+50
 1009+00
 1008+50
 1008+00
 1007+50
 1007+00
 1006+50
 1006+00
 1005+50
 1005+00
 1004+50
 1004+00
 1003+50
 1003+00
 1002+50
 1002+00
 1001+50
 1001+00
 1000+50
 1000+00



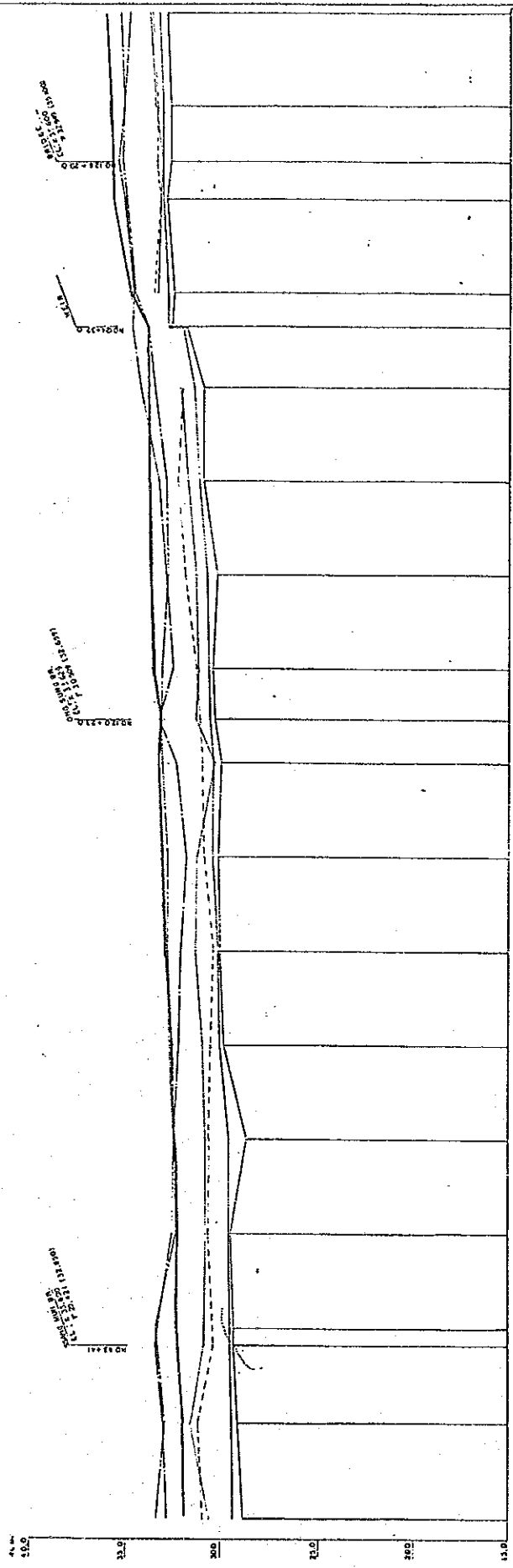
Station	Left Bank	Right Bank	Channel Width	Notes
1000+00	1000+00	1000+00	0	
1001+00	1001+00	1001+00	0	
1002+00	1002+00	1002+00	0	
1003+00	1003+00	1003+00	0	
1004+00	1004+00	1004+00	0	
1005+00	1005+00	1005+00	0	
1006+00	1006+00	1006+00	0	
1007+00	1007+00	1007+00	0	
1008+00	1008+00	1008+00	0	
1009+00	1009+00	1009+00	0	
1010+00	1010+00	1010+00	0	
1011+00	1011+00	1011+00	0	
1012+00	1012+00	1012+00	0	
1013+00	1013+00	1013+00	0	
1014+00	1014+00	1014+00	0	
1015+00	1015+00	1015+00	0	
1016+00	1016+00	1016+00	0	
1017+00	1017+00	1017+00	0	
1018+00	1018+00	1018+00	0	
1019+00	1019+00	1019+00	0	
1020+00	1020+00	1020+00	0	
1021+00	1021+00	1021+00	0	
1022+00	1022+00	1022+00	0	
1023+00	1023+00	1023+00	0	
1024+00	1024+00	1024+00	0	
1025+00	1025+00	1025+00	0	
1026+00	1026+00	1026+00	0	
1027+00	1027+00	1027+00	0	
1028+00	1028+00	1028+00	0	
1029+00	1029+00	1029+00	0	
1030+00	1030+00	1030+00	0	
1031+00	1031+00	1031+00	0	
1032+00	1032+00	1032+00	0	
1033+00	1033+00	1033+00	0	

PROJECT : JICA STUDY TEAM
 DRAWN : JICA STUDY TEAM
 DATE : 1998.11.11
 SCALE : 1:1000
 SHEET NO. : 12
 TOTAL SHEETS : 4



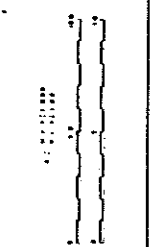
1:1000
 PROJECT : JICA STUDY TEAM
 DRAWN : JICA STUDY TEAM
 DATE : 1998.11.11
 SCALE : 1:1000
 SHEET NO. : 12
 TOTAL SHEETS : 4

1.2
8

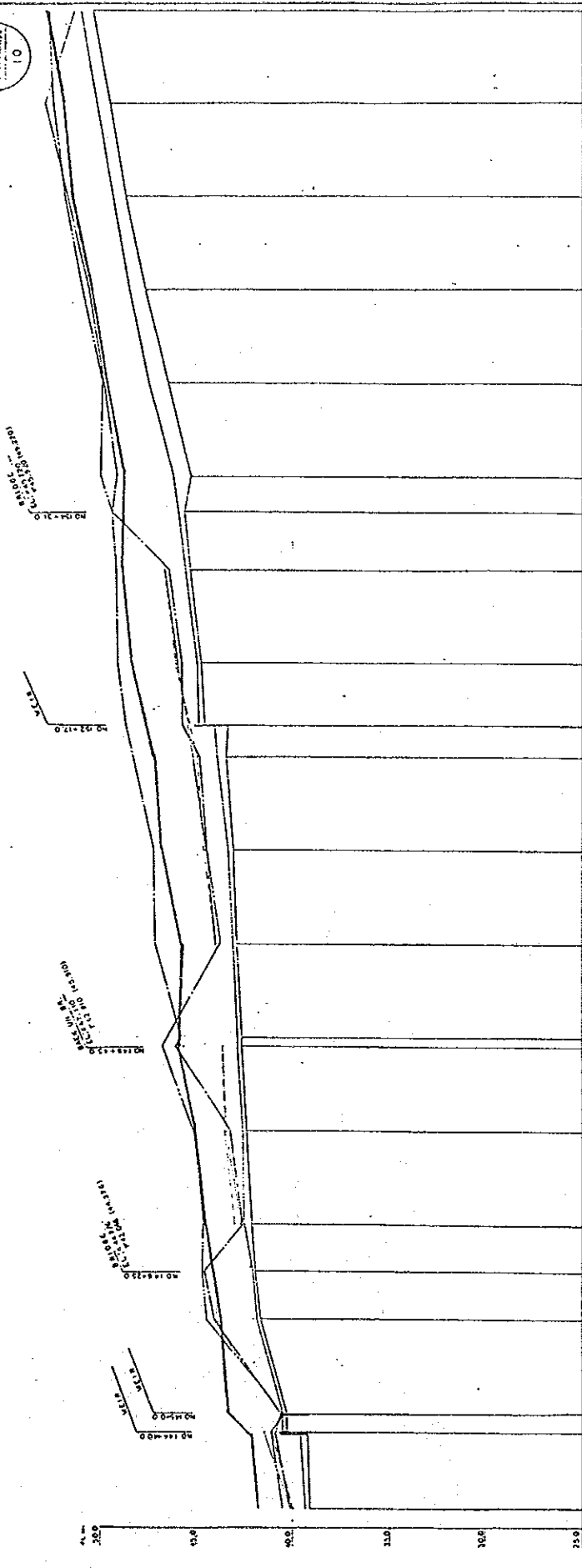


Station	Left Bank Elevation	Right Bank Elevation	Channel Bottom Elevation
100+00	111.00	111.00	109.50
101+00	110.50	110.50	109.00
102+00	110.00	110.00	108.50
103+00	109.50	109.50	108.00
104+00	109.00	109.00	107.50
105+00	108.50	108.50	107.00
106+00	108.00	108.00	106.50
107+00	107.50	107.50	106.00
108+00	107.00	107.00	105.50
109+00	106.50	106.50	105.00
110+00	106.00	106.00	104.50
111+00	105.50	105.50	104.00
112+00	105.00	105.00	103.50

Scale: 1" = 100'
 Date: 11/15/88
 Project: JCA STUDY TEAM
 Title: The Study on River Environment Improvement for The Tributaries of Tan River System in Soud Municipality and Its Vicinity



12
 10



Station	Water Level (m)	Flow (m³/s)	Velocity (m/s)	Channel Width (m)	Channel Depth (m)	Area (m²)	Discharge (m³/s)
10+00	10.00	1000	1.00	100	10	1000	1000
11+00	11.00	1100	1.10	110	11	1210	1321
12+00	12.00	1200	1.20	120	12	1440	1728
13+00	13.00	1300	1.30	130	13	1690	2197
14+00	14.00	1400	1.40	140	14	1960	2744
15+00	15.00	1500	1.50	150	15	2250	3375
16+00	16.00	1600	1.60	160	16	2560	4096
17+00	17.00	1700	1.70	170	17	2890	4913
18+00	18.00	1800	1.80	180	18	3240	5832
19+00	19.00	1900	1.90	190	19	3610	6859
20+00	20.00	2000	2.00	200	20	4000	8000
21+00	21.00	2100	2.10	210	21	4410	9261
22+00	22.00	2200	2.20	220	22	4840	10648
23+00	23.00	2300	2.30	230	23	5290	12167
24+00	24.00	2400	2.40	240	24	5760	13824
25+00	25.00	2500	2.50	250	25	6250	15625
26+00	26.00	2600	2.60	260	26	6760	17576
27+00	27.00	2700	2.70	270	27	7290	19683
28+00	28.00	2800	2.80	280	28	7840	21952
29+00	29.00	2900	2.90	290	29	8410	24389
30+00	30.00	3000	3.00	300	30	9000	27000
31+00	31.00	3100	3.10	310	31	9610	29791
32+00	32.00	3200	3.20	320	32	10240	32768
33+00	33.00	3300	3.30	330	33	10890	35937
34+00	34.00	3400	3.40	340	34	11560	39304
35+00	35.00	3500	3.50	350	35	12250	42875
36+00	36.00	3600	3.60	360	36	12960	46656
37+00	37.00	3700	3.70	370	37	13690	50653
38+00	38.00	3800	3.80	380	38	14440	54872
39+00	39.00	3900	3.90	390	39	15210	59319
40+00	40.00	4000	4.00	400	40	16000	64000
41+00	41.00	4100	4.10	410	41	16810	68921
42+00	42.00	4200	4.20	420	42	17640	74088
43+00	43.00	4300	4.30	430	43	18490	79505
44+00	44.00	4400	4.40	440	44	19360	85176
45+00	45.00	4500	4.50	450	45	20250	91105
46+00	46.00	4600	4.60	460	46	21160	97304
47+00	47.00	4700	4.70	470	47	22090	103777
48+00	48.00	4800	4.80	480	48	23040	110528
49+00	49.00	4900	4.90	490	49	24010	117561
50+00	50.00	5000	5.00	500	50	25000	124875
51+00	51.00	5100	5.10	510	51	26010	132476
52+00	52.00	5200	5.20	520	52	27040	140368
53+00	53.00	5300	5.30	530	53	28090	148557
54+00	54.00	5400	5.40	540	54	29160	157048
55+00	55.00	5500	5.50	550	55	30250	165845
56+00	56.00	5600	5.60	560	56	31360	174952
57+00	57.00	5700	5.70	570	57	32490	184375
58+00	58.00	5800	5.80	580	58	33640	194116
59+00	59.00	5900	5.90	590	59	34810	204179
60+00	60.00	6000	6.00	600	60	36000	214560
61+00	61.00	6100	6.10	610	61	37210	225271
62+00	62.00	6200	6.20	620	62	38440	236316
63+00	63.00	6300	6.30	630	63	39690	247699
64+00	64.00	6400	6.40	640	64	40960	259424
65+00	65.00	6500	6.50	650	65	42250	271495
66+00	66.00	6600	6.60	660	66	43560	283916
67+00	67.00	6700	6.70	670	67	44890	296691
68+00	68.00	6800	6.80	680	68	46240	309824
69+00	69.00	6900	6.90	690	69	47610	323319
70+00	70.00	7000	7.00	700	70	49000	337180
71+00	71.00	7100	7.10	710	71	50410	351411
72+00	72.00	7200	7.20	720	72	51840	366016
73+00	73.00	7300	7.30	730	73	53290	380999
74+00	74.00	7400	7.40	740	74	54760	396364
75+00	75.00	7500	7.50	750	75	56250	412115
76+00	76.00	7600	7.60	760	76	57760	428256
77+00	77.00	7700	7.70	770	77	59290	444791
78+00	78.00	7800	7.80	780	78	60840	461724
79+00	79.00	7900	7.90	790	79	62410	479059
80+00	80.00	8000	8.00	800	80	64000	496800
81+00	81.00	8100	8.10	810	81	65610	514951
82+00	82.00	8200	8.20	820	82	67240	533516
83+00	83.00	8300	8.30	830	83	68890	552499
84+00	84.00	8400	8.40	840	84	70560	571816
85+00	85.00	8500	8.50	850	85	72250	591471
86+00	86.00	8600	8.60	860	86	73960	611468
87+00	87.00	8700	8.70	870	87	75690	631811
88+00	88.00	8800	8.80	880	88	77440	652504
89+00	89.00	8900	8.90	890	89	79210	673551
90+00	90.00	9000	9.00	900	90	81000	694956
91+00	91.00	9100	9.10	910	91	82810	716713
92+00	92.00	9200	9.20	920	92	84640	738828
93+00	93.00	9300	9.30	930	93	86490	761305
94+00	94.00	9400	9.40	940	94	88360	784148
95+00	95.00	9500	9.50	950	95	90250	807361
96+00	96.00	9600	9.60	960	96	92160	830948
97+00	97.00	9700	9.70	970	97	94090	854911
98+00	98.00	9800	9.80	980	98	96040	879264
99+00	99.00	9900	9.90	990	99	98010	904011
100+00	100.00	10000	10.00	1000	100	100000	929160

Scale: 1:1000

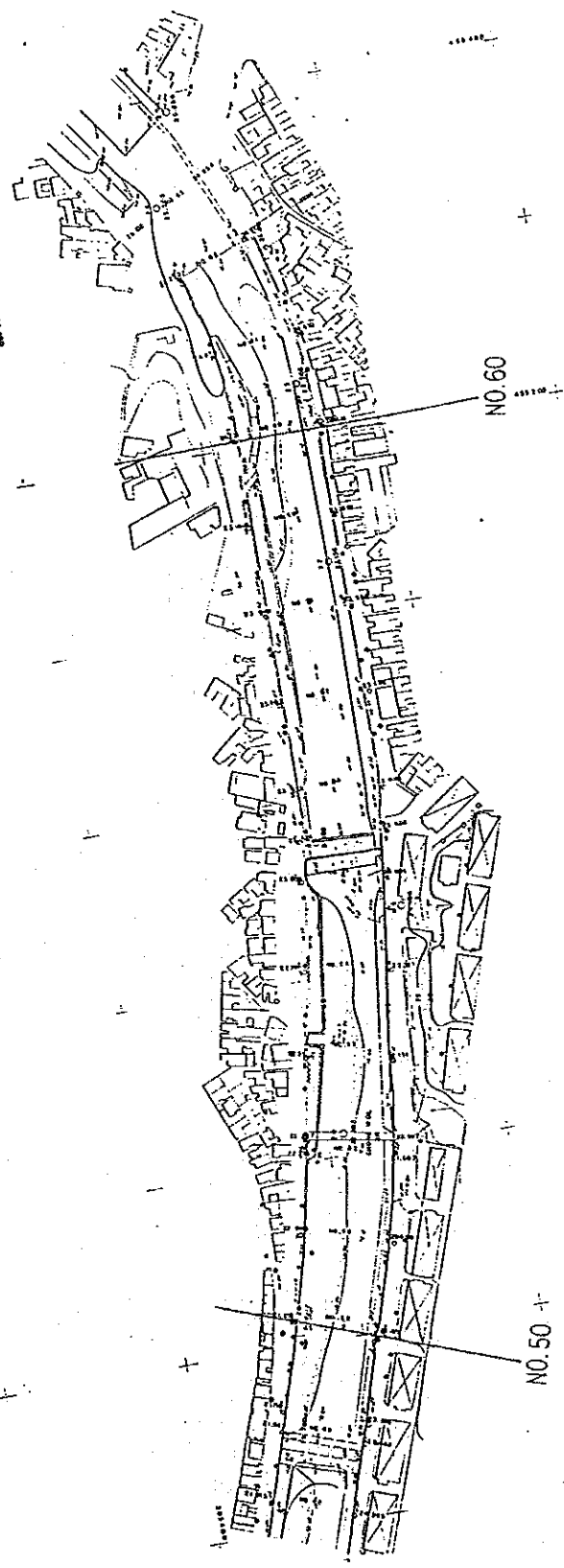
Project: JICA STUDY TEAM

Date: 1998.11.15

Sheet: 12 of 10

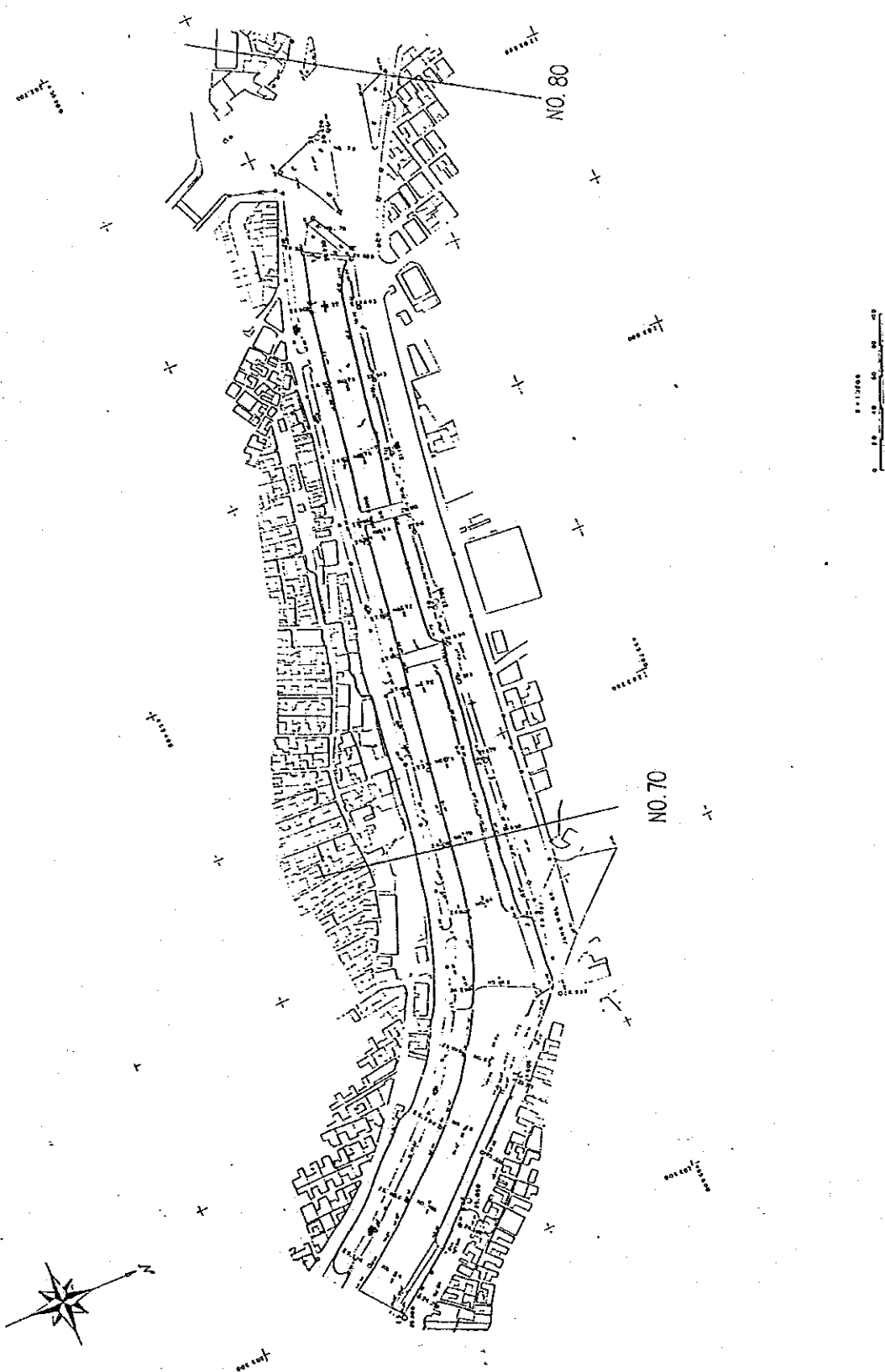
The Study on River Environment Improvement for The Tribulation of the River System in Seoul Municipality and Its Vicinity

1A
4

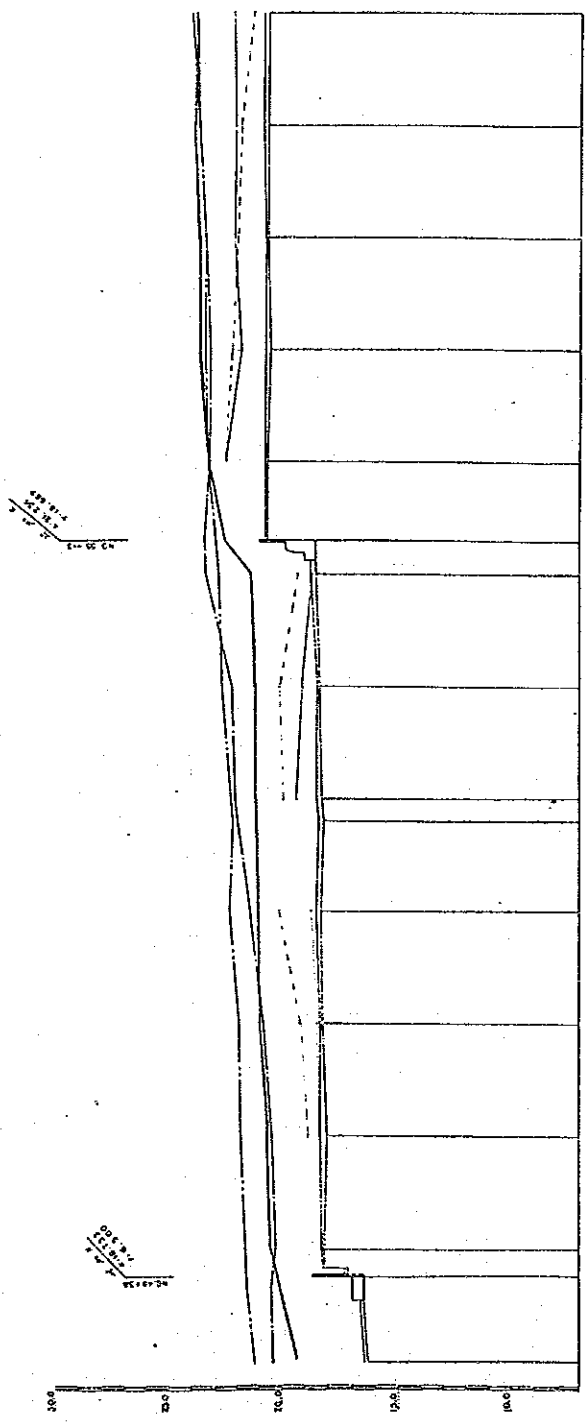


특기사항 시정청 서양·도시 요인	설계자 한국종합기술개발공사 KOREA ENGINEERING CONSULTANTS CORP.	심사 설계 감독	시업명 蕪江水系中小河渠 尾院設計圖(1)	도시번호 01-4
				도시번호 01-4 1990. 12. 31

14
ASBPP
5



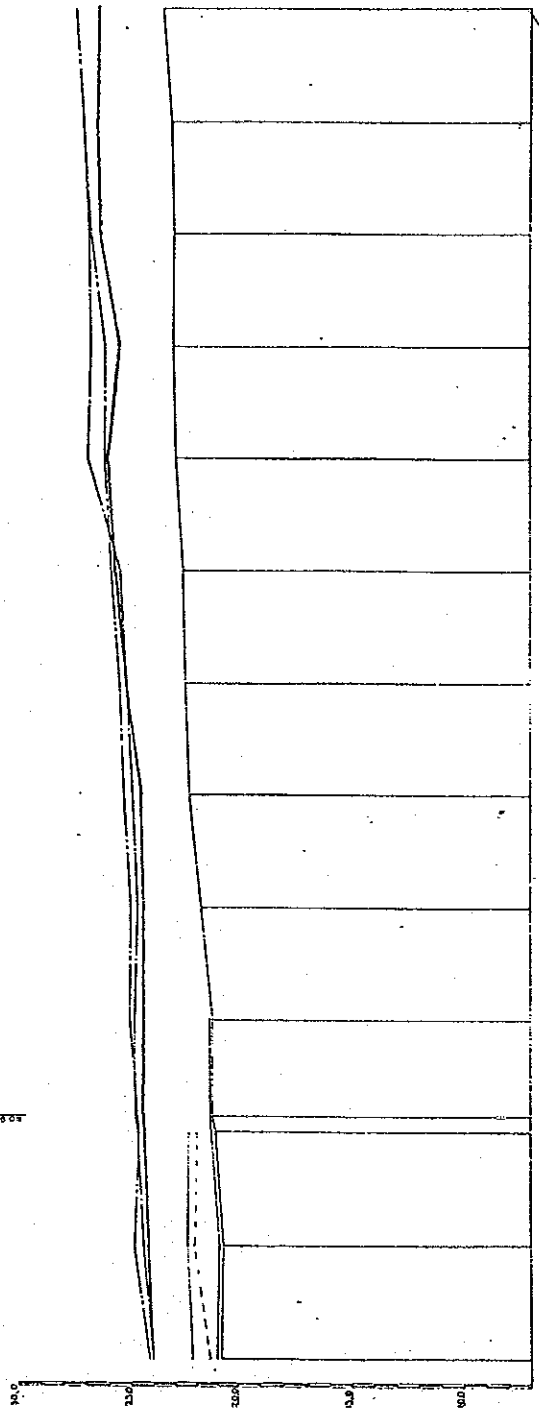
목기시일	시행장 서울특별시	의의 서울특별시	설계 한국종합기술개발공사 KOREA ENGINEERING CONSULTANTS CO., LTD.	검토 김시 김시	시명 漢江永泰中小河川 得路內排水設備外	도면번호 C1-5 2002.10.19	평면도
------	--------------	-------------	-------------------------------------------------------------	----------------	----------------------------	----------------------------	-----



구분	구분명	구분번호	구분위치	구분높이	구분폭	구분길이	구분면적	구분중량	구분단면적	구분단면중량
1	상부구조물	100	100.0	100.0	10.0	10.0	100.0	100.0	10.0	100.0
2	중간구조물	200	120.0	120.0	10.0	10.0	200.0	200.0	20.0	200.0
3	하부구조물	300	140.0	140.0	10.0	10.0	300.0	300.0	30.0	300.0
4	기타	400	160.0	160.0	10.0	10.0	400.0	400.0	40.0	400.0
5	합계									

시공처: 서울특별시
 설계처: 한국종합기술개발공사
 KOREA ENGINEERING CONSULTANTS CORP.
 시공일: 1990.12.31
 도면번호: 100-5
 도면명: 홍산인포 (5)

1B
2001.11.20
6

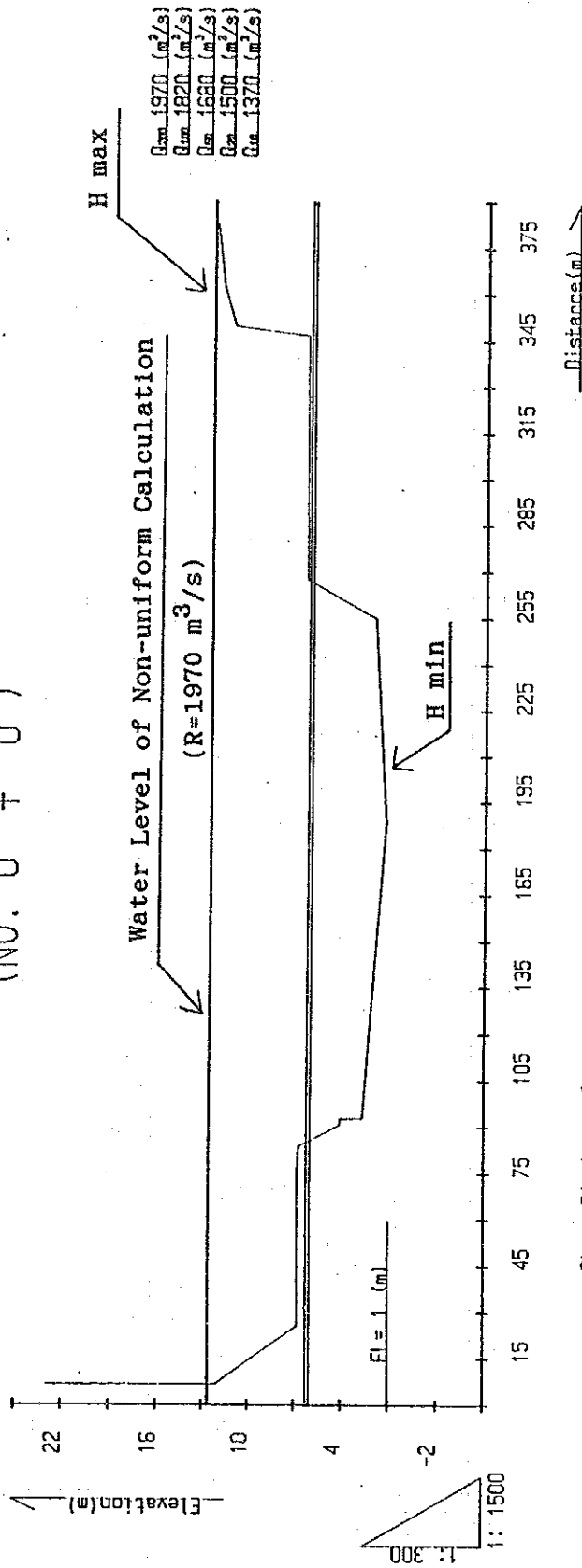


100.2 483
100.1 217
100.0 217
99.9 217

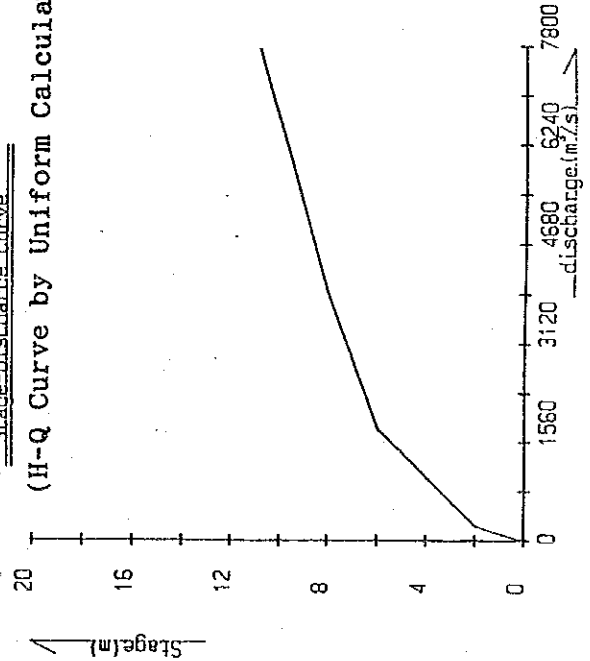
구분	구분명	구분	구분명	구분	구분명	구분	구분명	구분	구분명	구분	구분명	구분	구분명	구분	구분명	구분	구분명	구분	구분명
1	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
2	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
3	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
4	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
5	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
6	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
7	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
8	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
9	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
10	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
11	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
12	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
13	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
14	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
15	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
16	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
17	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
18	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
19	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217
20	100.0	200	217	300	217	400	217	500	217	600	217	700	217	800	217	900	217	1000	217

프로젝트명: 서울특별시
 시공처: 서울특별시
 주관: 서울특별시
 사업명: 홍천수계중소하천
 발주처: 홍천수계중소하천
 사업번호: 1111111111
 1990.12.31

Anyang-Chong (NO. 0 + 0)

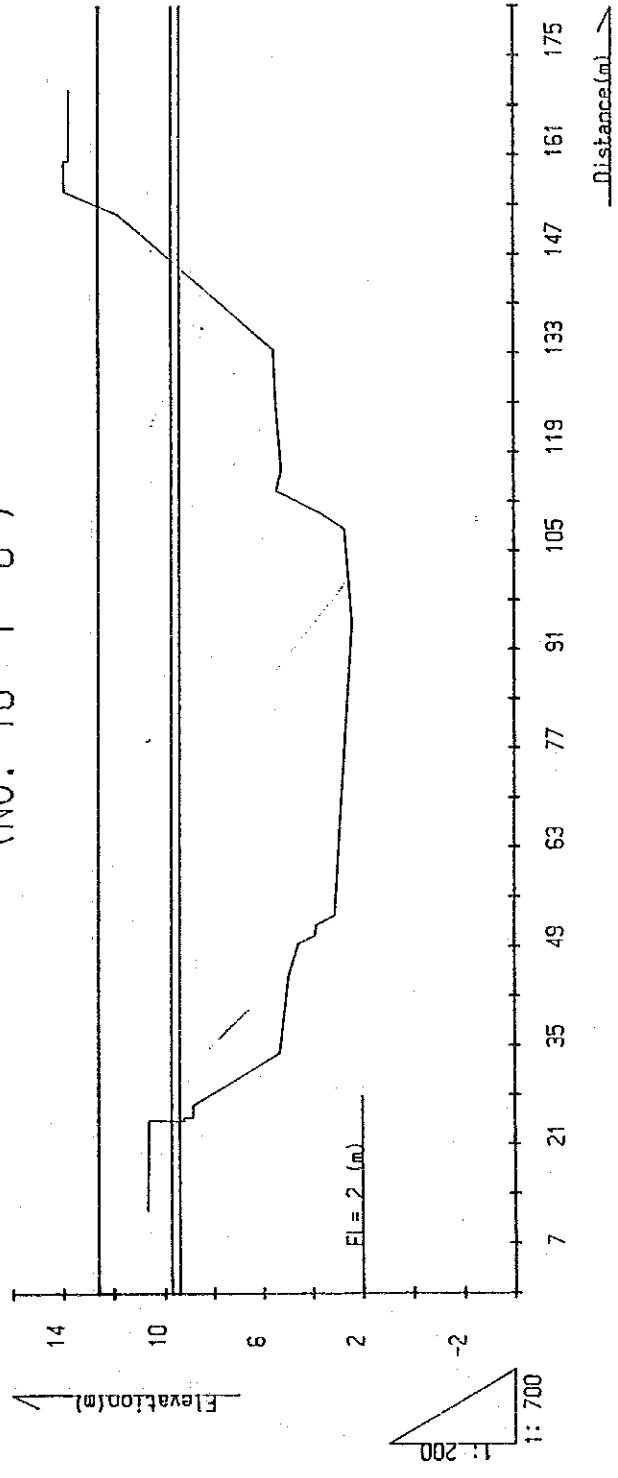


Stage-Discharge Curve
(H-Q Curve by Uniform Calculation)

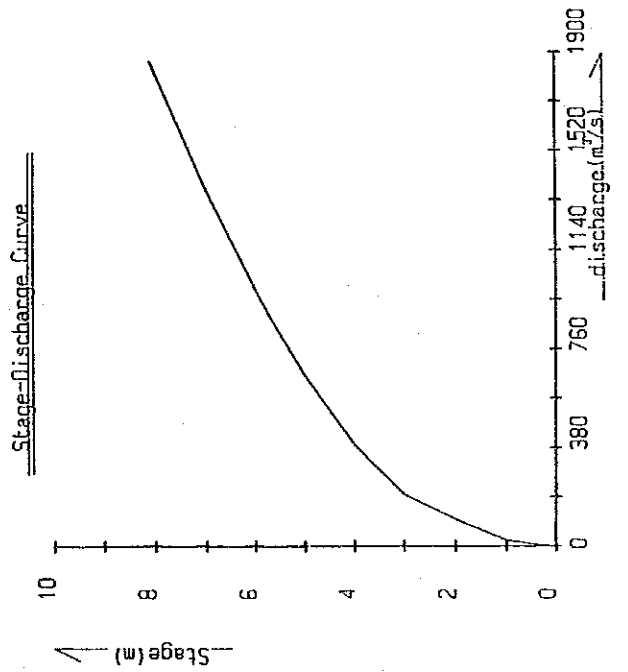


NO.	NO. 0 + 0	Station No.
Hmin	1.3 (m)	Minimum Depth
Hmax	12.1 (m)	Revetment Height
n	.035	Roughness Coeff.
I	1/1335	Invert Gradient
A	2648.927 (m ²)	Section Area
P	366.946 (m)	Wetted Perimeter
R	7.2188 (m)	Hydraulic Radius
V	2.9208 (m/s)	Velocity
Q	7736.9859 (m ³ /s)	Discharge

Anyang-Chong (NO. 10 + 0)

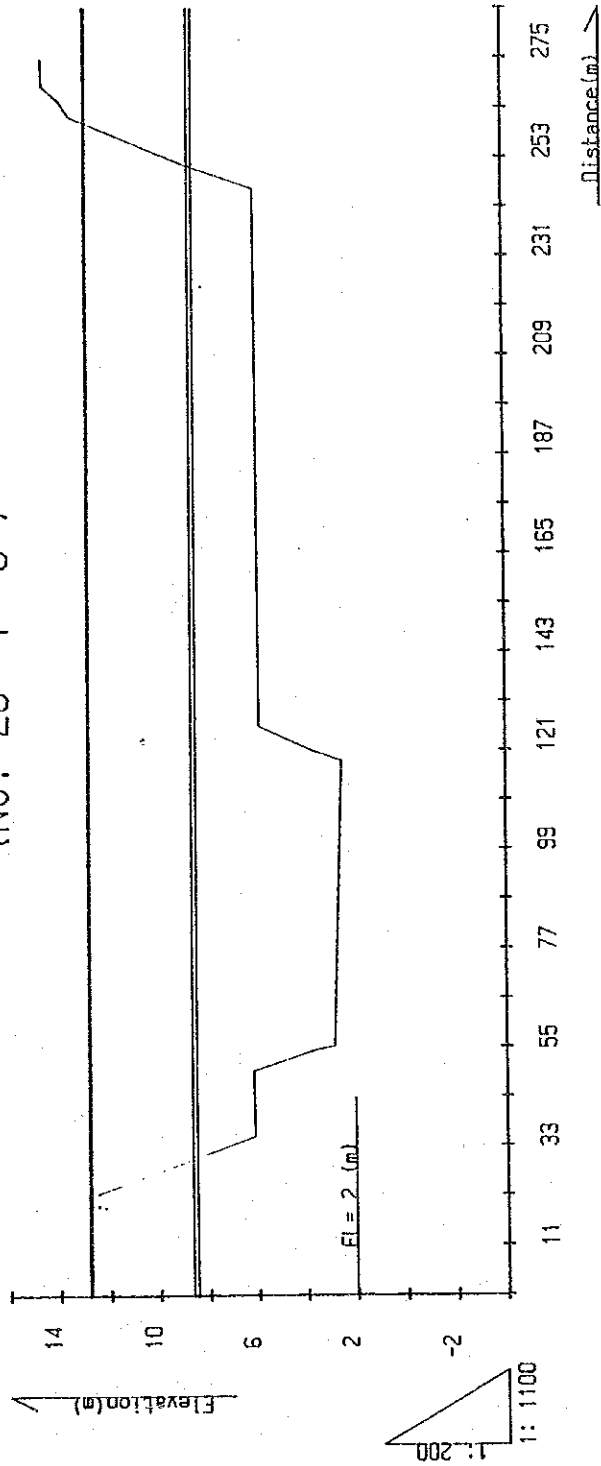


Cum. 1970 (m³/s)
 Cum. 1920 (m³/s)
 Cum. 1850 (m³/s)
 Cum. 1500 (m³/s)
 Cum. 1370 (m³/s)

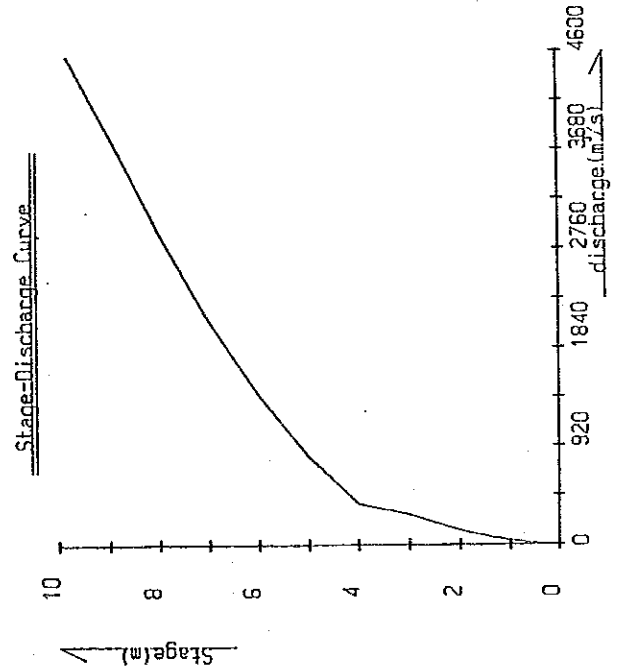


NO.	NO. 10 + 0
Hmin	2.402 (m)
Hmax	10.502 (m)
n	.035
L	1 / 1335
A	740.2232 (m ²)
P	128.4816 (m)
R	5.7613 (m)
V	2.5131 (m/s)
Q	1860.2548 (m ³ /s)

Anyang-Chong (NO. 20 + 0)

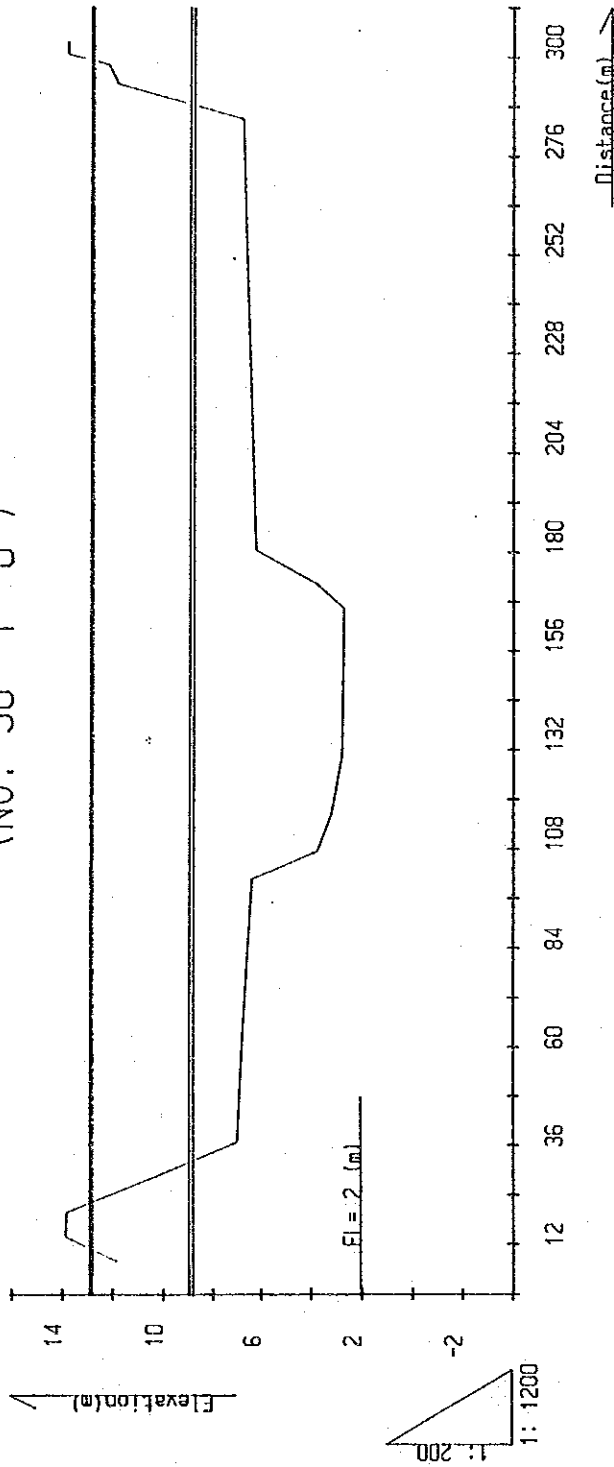


Q_{max} 1970 (m^3/s)
 $Q_{10\%}$ 1820 (m^3/s)
 $Q_{50\%}$ 1530 (m^3/s)
 $Q_{90\%}$ 1500 (m^3/s)
 Q_{95} 1370 (m^3/s)



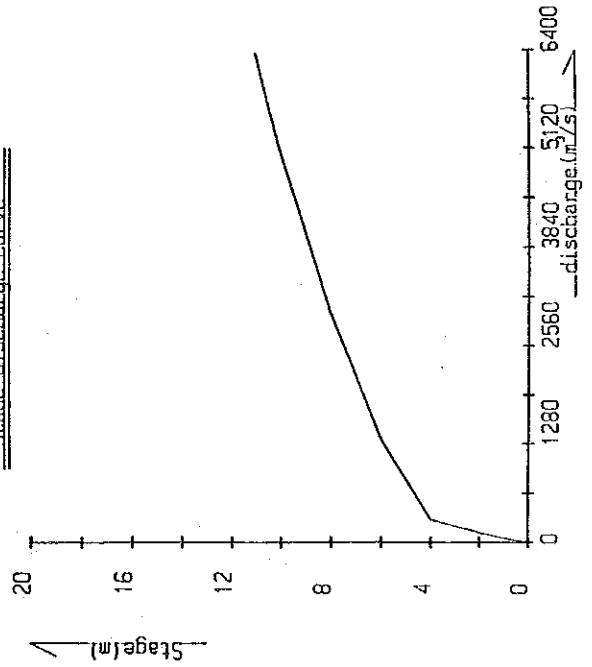
NO.	NO. 20 + 0
Hmin	2.514 (m)
Hmax	12.314 (m)
n	.035
I	1/ 1335
A	1650.8511 (m^2)
P	249.6668 (m)
R	6.6122 (m)
V	2.7548 (m^3/s)
Q	4547.7645 (m^3/s)

Anyang-Chong (NO. 30 + 0)



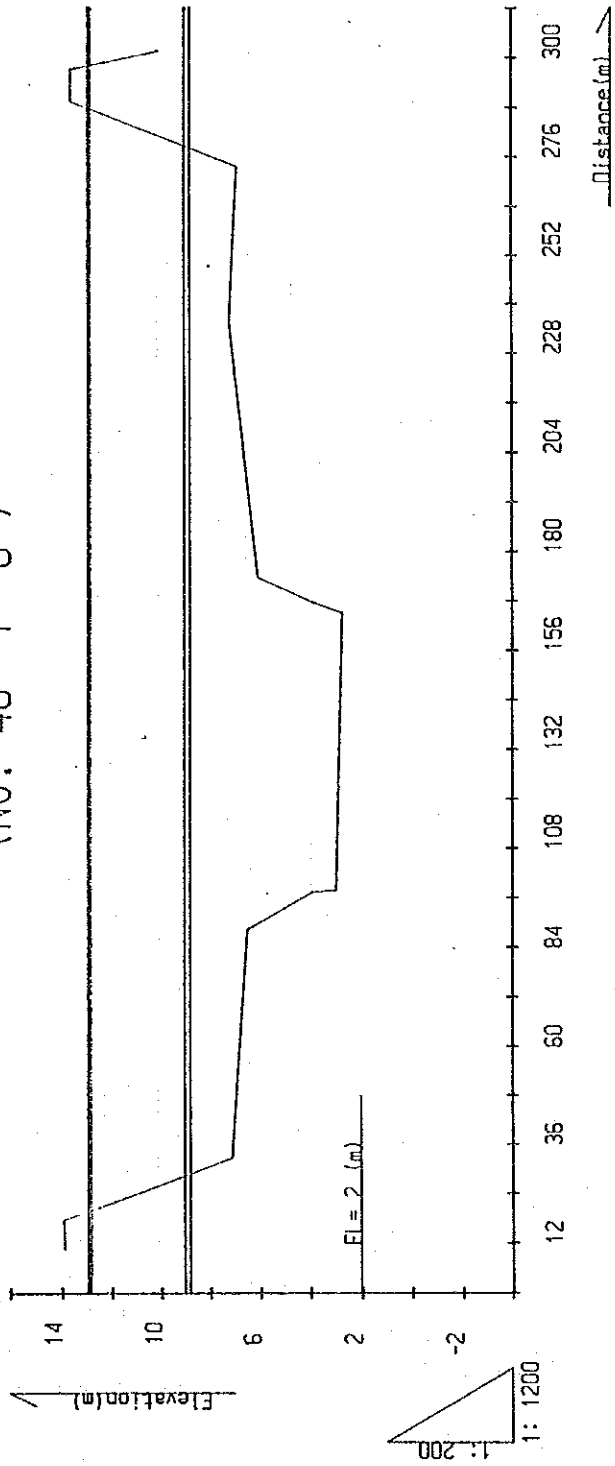
$Q_{20} = 1970 \text{ (m}^3/\text{s)}$
 $Q_{10} = 1820 \text{ (m}^3/\text{s)}$
 $Q_0 = 1660 \text{ (m}^3/\text{s)}$
 $Q_{-10} = 1500 \text{ (m}^3/\text{s)}$
 $Q_{-20} = 1370 \text{ (m}^3/\text{s)}$

Stage-Discharge Curve

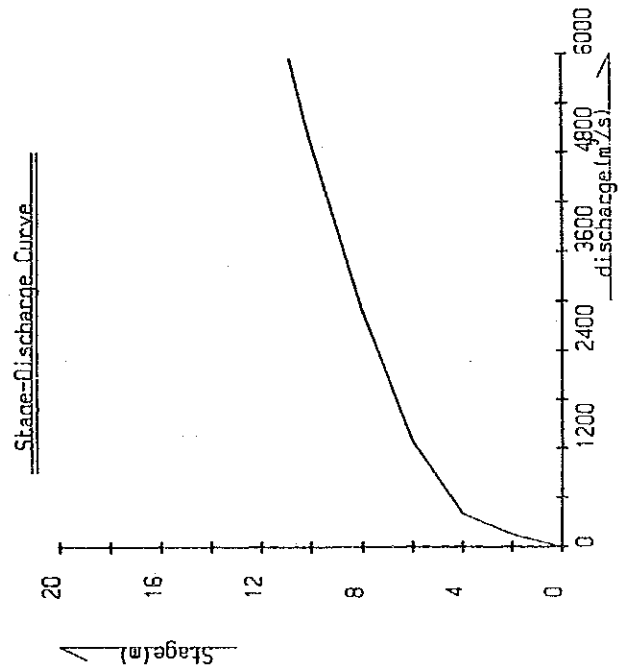


NO.	NO. 30 + 0
Hmin	2.681 (m)
Hmax	13.681 (m)
n	.035
I	1 / 1335
A	2138.4825 (m ²)
P	290.3324 (m)
R	7.3656 (m)
V	2.9603 (m/s)
Q	6330.5496 (m ³ /s)

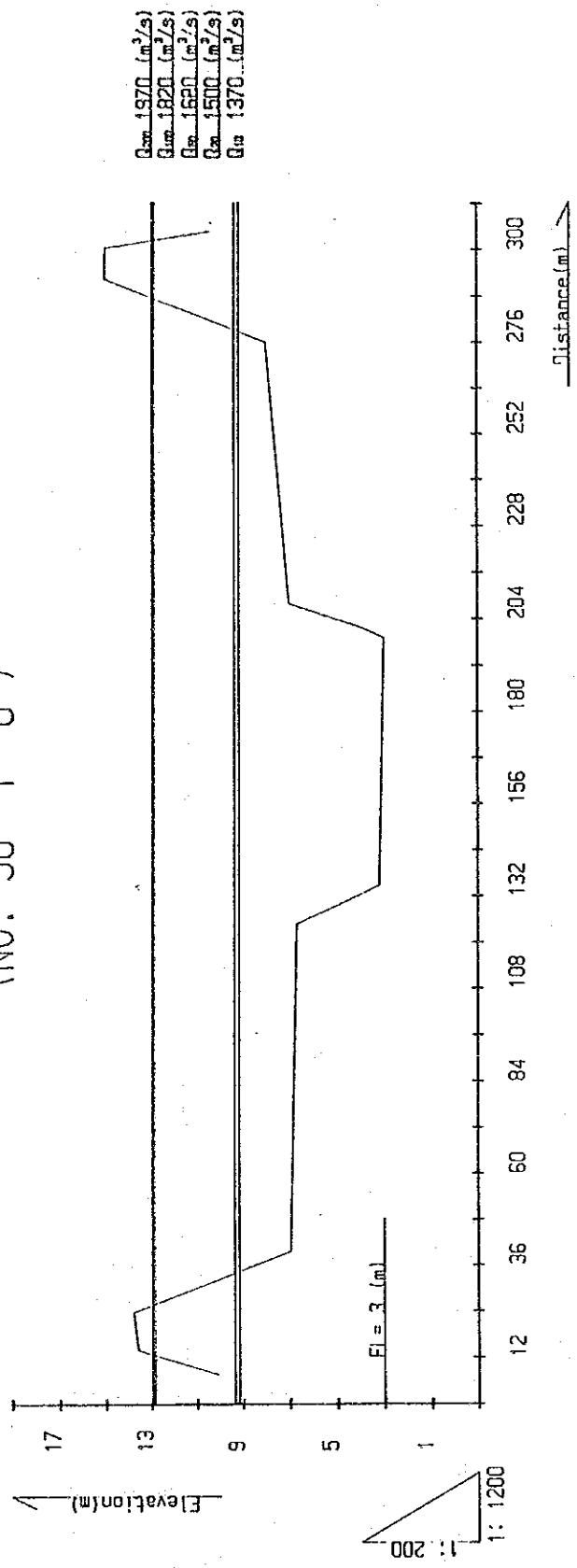
Anyang-Chong (NO. 40 + 0)



NO.	NO. 40 + 0
H _{min}	2.7'8 (m)
H _{max}	13.518 (m)
D	.035
L	1 / 1335
A	2029.0765 (m ²)
P	280.5834 (m)
R	7.2316 (m)
V	2.9242 (m/s)
Q	5933.4255 (m ³ /s)

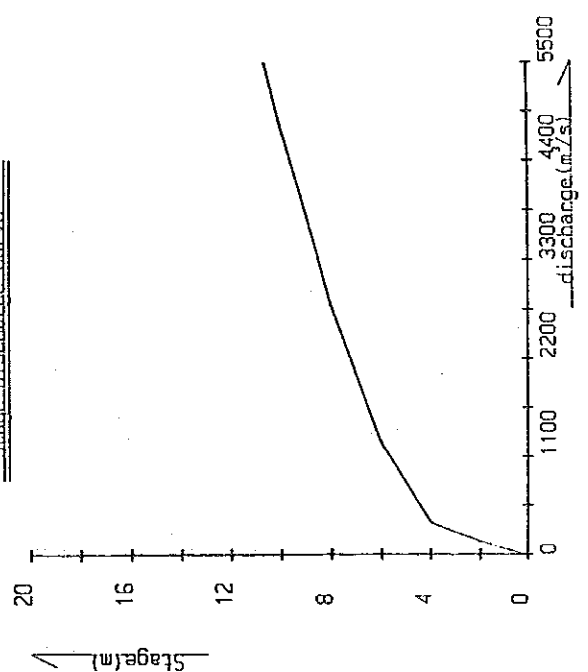


Anyang-Chong (NO. 50 + 0)



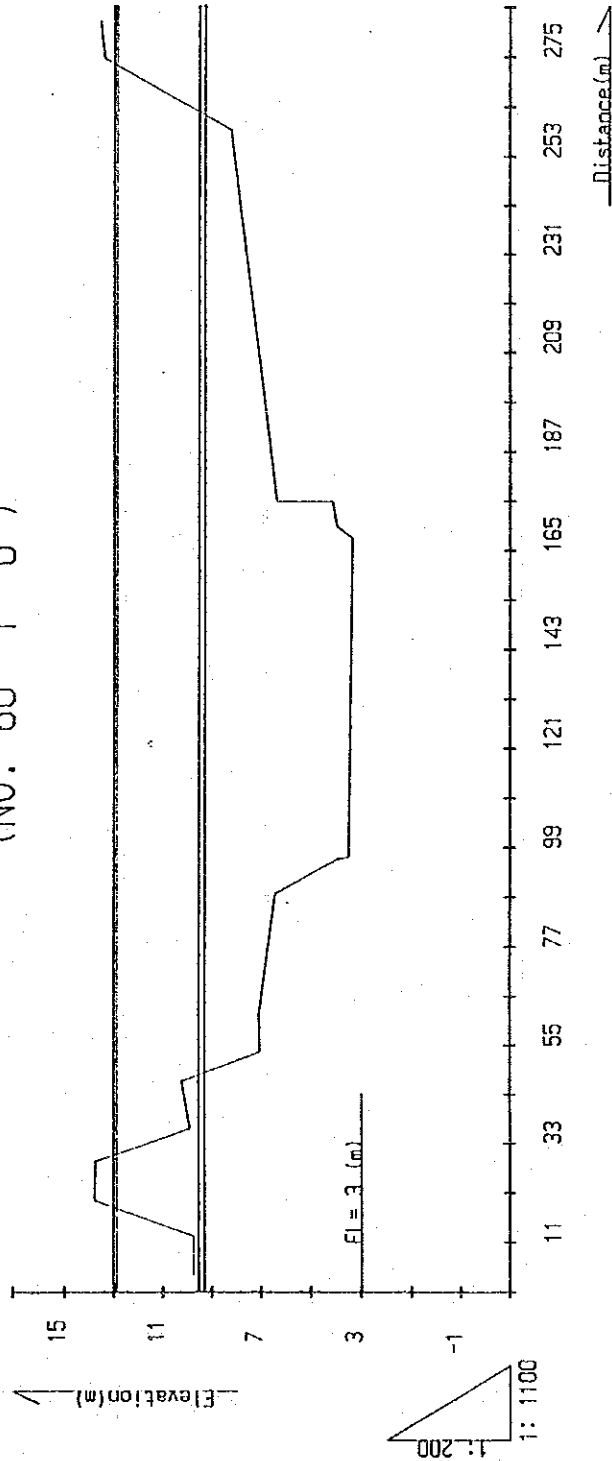
- Q_{max} 1970 (m³/s)
- Q_{max} 1820 (m³/s)
- Q_{sp} 1620 (m³/s)
- Q_{in} 1500 (m³/s)
- Q_{in} 1370 (m³/s)

Stage-Discharge Curve



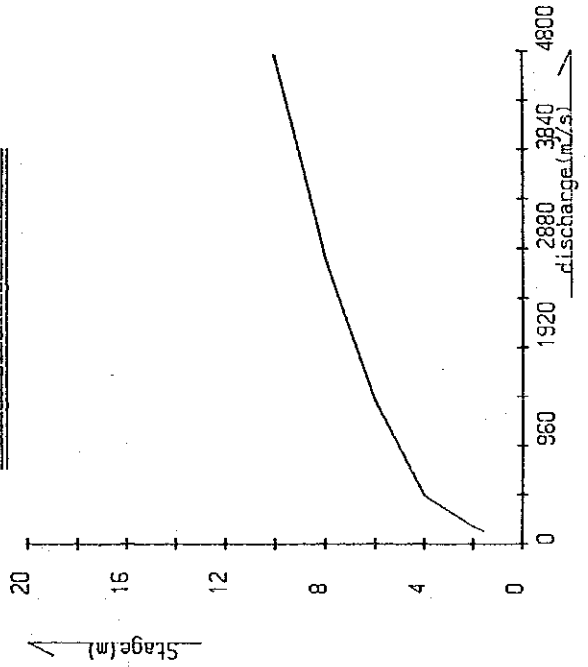
NO.	NO. 50 + 0
H _{min}	3 (m)
H _{max}	13.6 (m)
n	.035
L	1 / 1335
A	1936.1386 (m ²)
P	280.9336 (m)
R	6.8918 (m)
V	2.8319 (m ³ /s)
Q	5482.951 (m ³ /s)

Anyang-Chong (NO. 60 + 0)



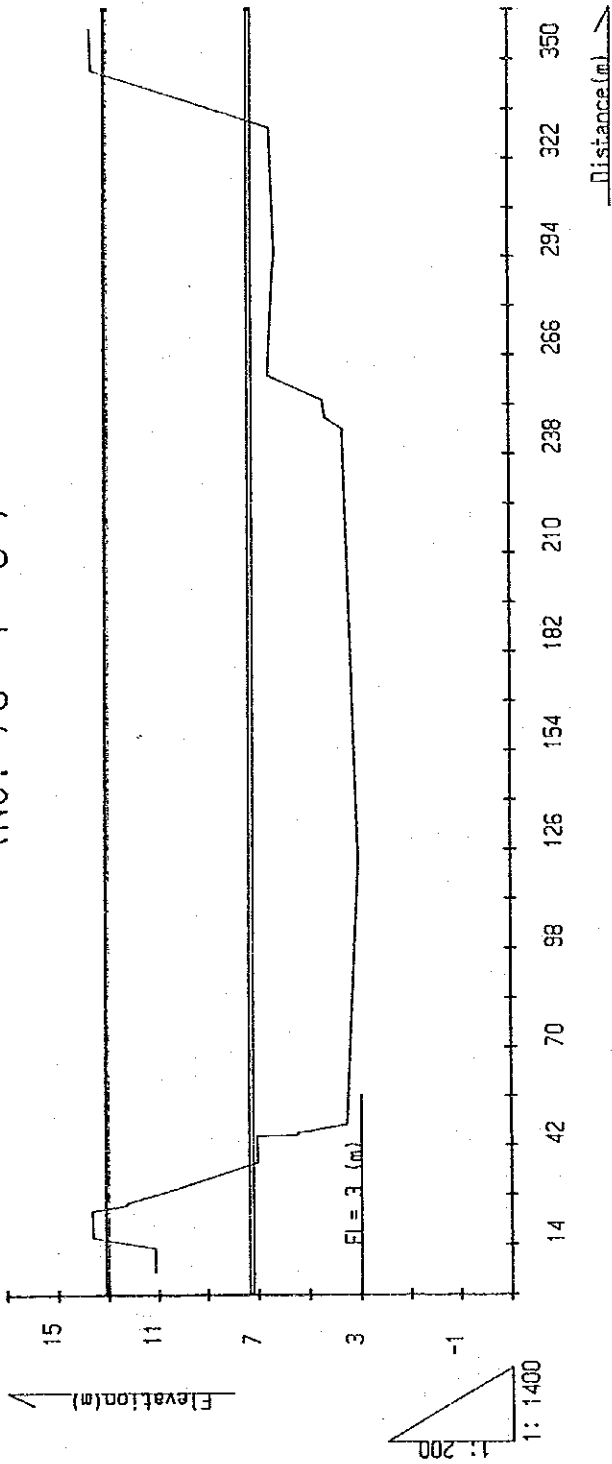
Q_{max} 1970 (m^3/s)
 Q_{min} 1820 (m^3/s)
 Q_{av} 1880 (m^3/s)
 Q_{in} 1500 (m^3/s)
 Q_{out} 1370 (m^3/s)

Stage-Discharge Curve

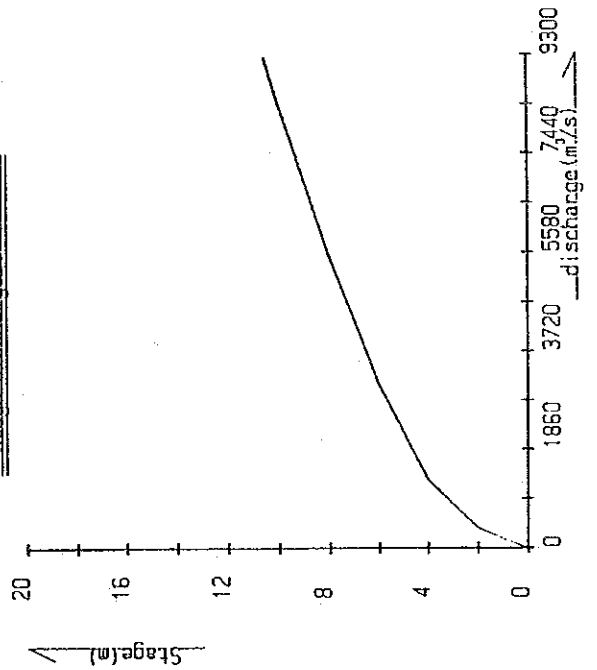


NO.	NO. 60 + 0
H _{min}	3.399 (m)
H _{max}	13.399 (m)
n	0.35
I	1/ 1335
A	1742.4997 (m^2)
P	266.9551 (m)
R	6.5273 (m)
V	2.7312 (m^3/s)
Q	4759.1152 (m^3/s)

Anyang-Chong (NO. 70 + 0)

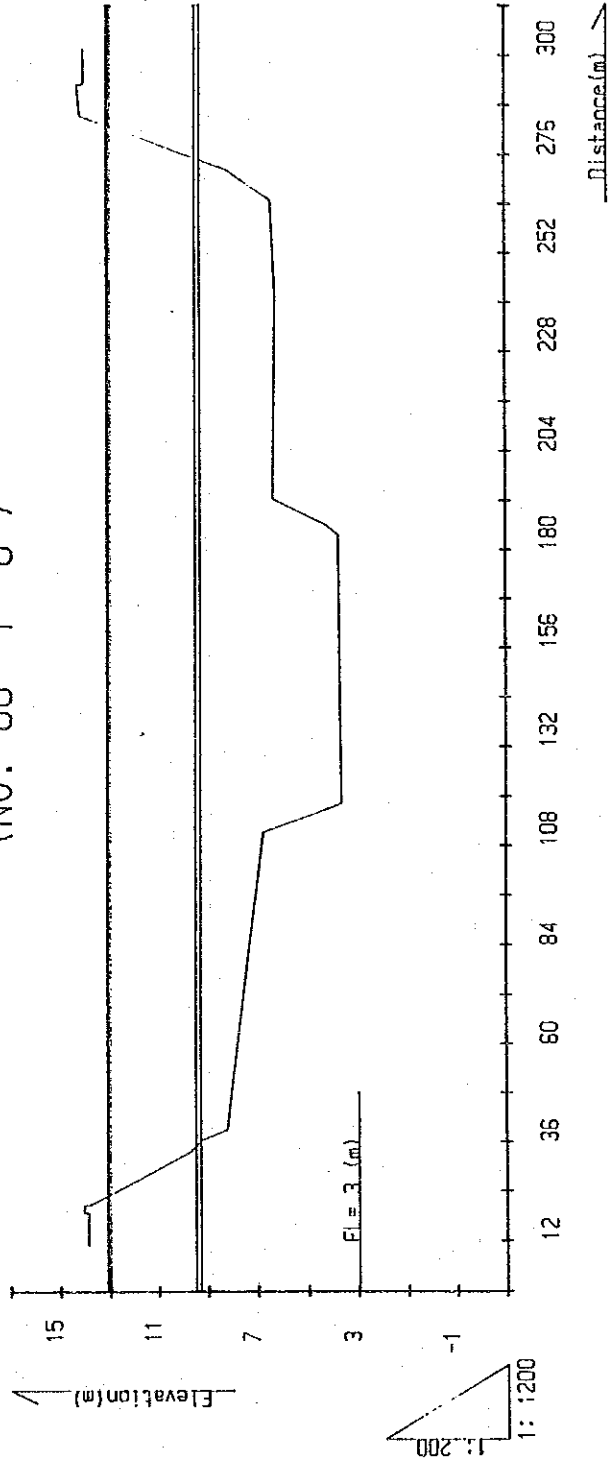


Stage-Discharge Curve



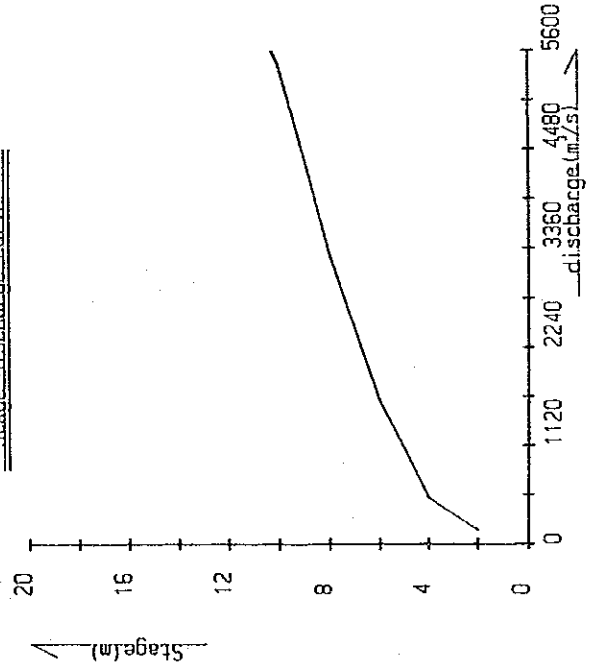
NO.	NO. 70 + 0
Hmin	3.09 (m)
Hmax	13.59 (m)
Q	0.35
I	1 / 1335
A	2855.4091 (m^3)
P	339.2105 (m)
R	8.4178 (m)
V	3.2359 (m/s)
Q	9239.8185 (m^3/s)

Anyang-Chong (NO. 80 + 0)



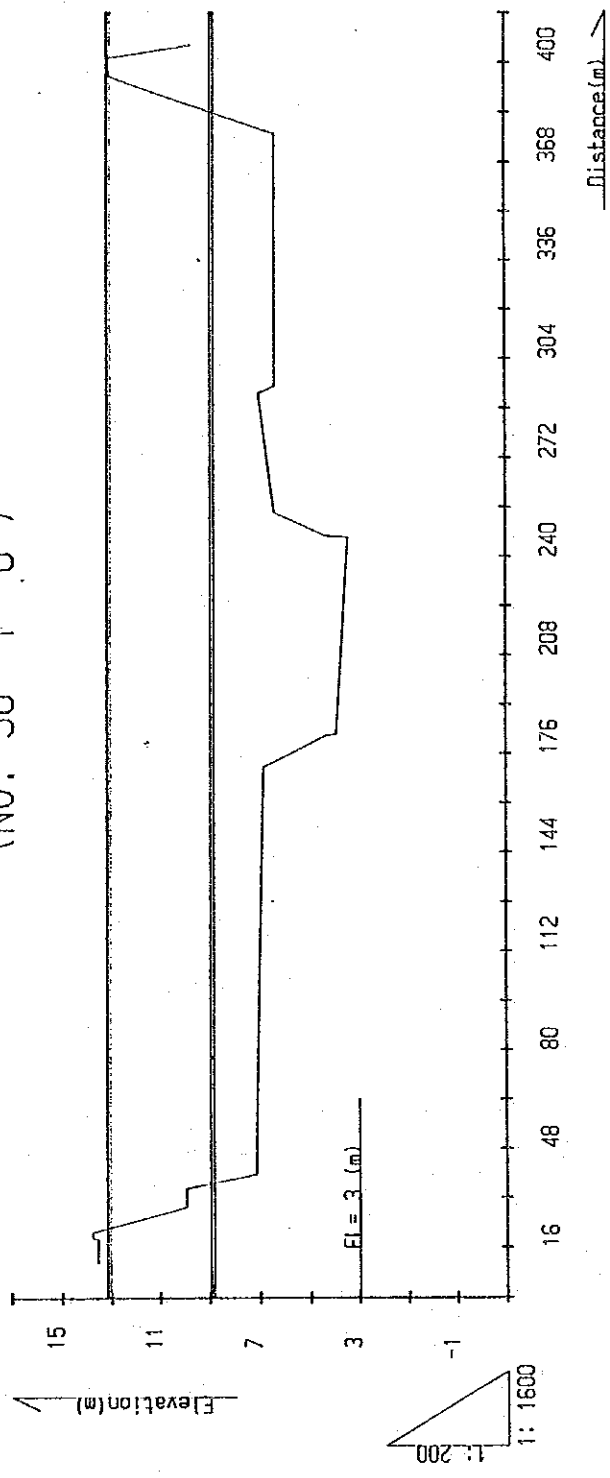
- Qm 1970 (m³/s)
- Qm 1820 (m³/s)
- Qm 1630 (m³/s)
- Qm 1500 (m³/s)
- Qm 1370 (m³/s)

Stage-Discharge Curve

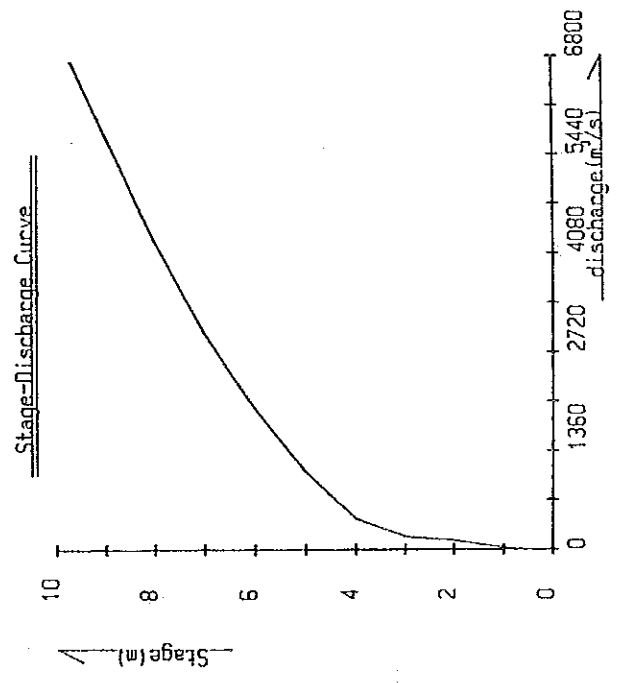


NO.	NO. 80 + 0
Hmin	3.706 (m)
Hmax	13.906 (m)
n	.035
I	1 / 1335
A	1944.5272 (m ²)
P	275.3525 (m)
R	7.062 (m)
V	2.8783 (m ³ /s)
Q	5596.9327 (m ³ /s)

Anyang-Chong (NO. 90 + 0)

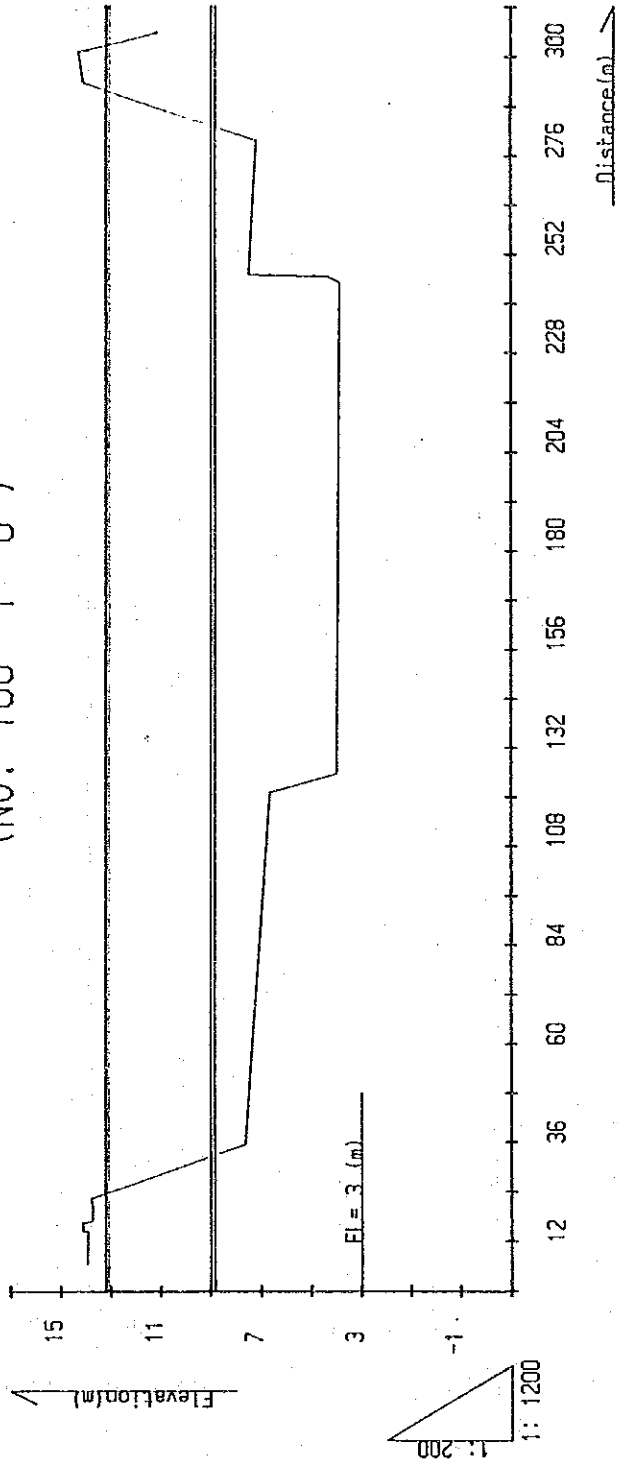


- Q_{max} 1970 (m³/s)
- Q_{sup} 1820 (m³/s)
- Q_m 1580 (m³/s)
- Q_{min} 1500 (m³/s)
- Q_{min} 1370 (m³/s)

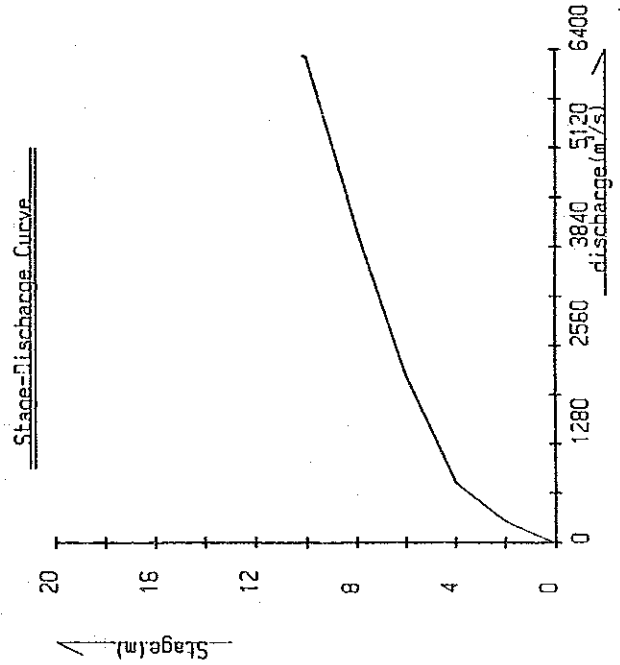


NO.	NO. 90 + 0
H _{min}	3.46 (m)
H _{max}	13.16 (m)
n	0.35
T	1 / 1335
A	2489.9036 (m ²)
P	387.7699 (m)
R	6.4211 (m)
V	2.7015 (m/s)
Q	6726.4745 (m ³ /s)

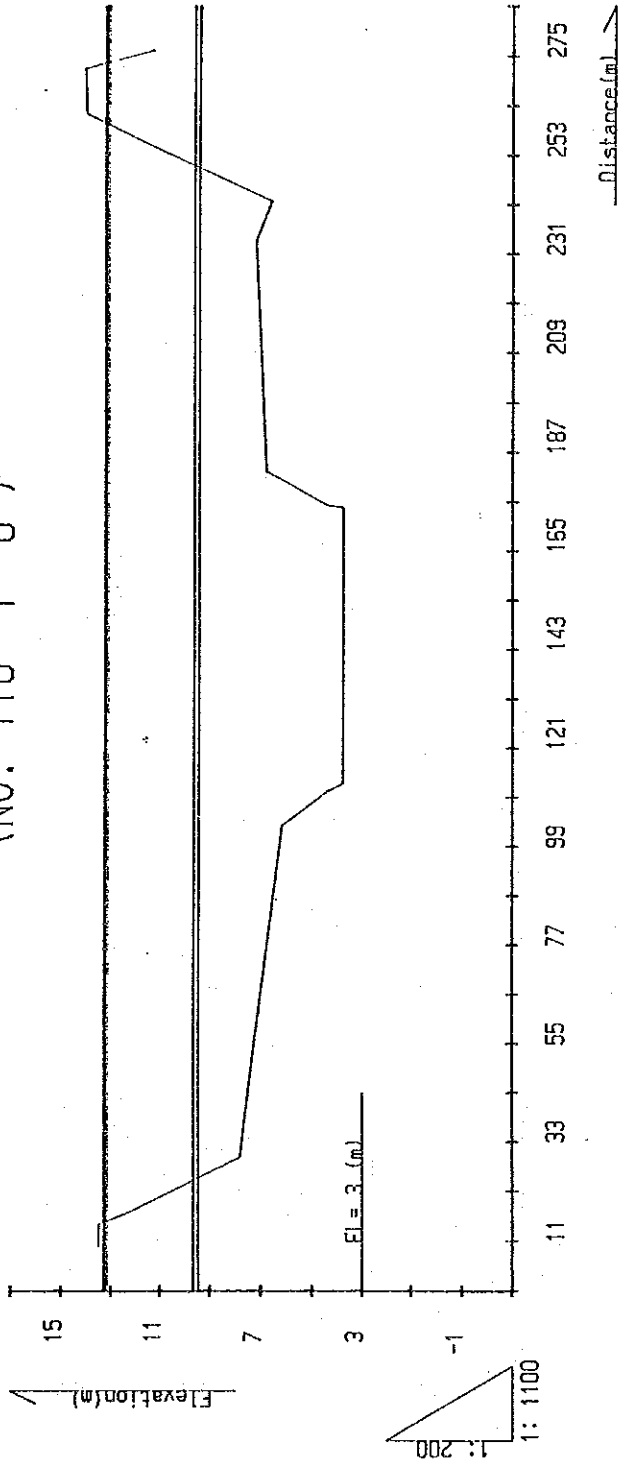
Anyang-Chong (NO. 100 + 0)



NO.	NO. 100 + 0
Hmin	3.9 (m)
Hmax	14 (m)
n	.035
L	1 / 1335
A	2154.3699 (m ³)
P	296.2602 (m)
R	7.2719 (m)
V	2.9351 (m/s)
Q	6323.291 (m ³ /s)

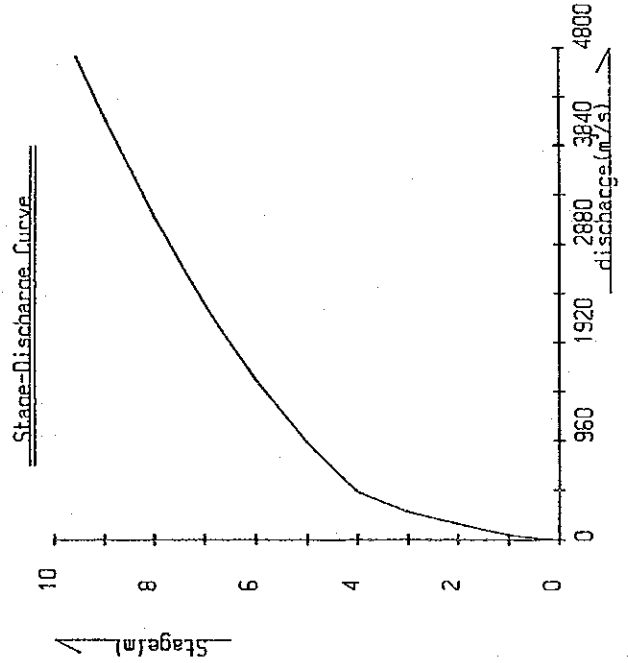


Anyang-Chong (NO. 110 + 0)

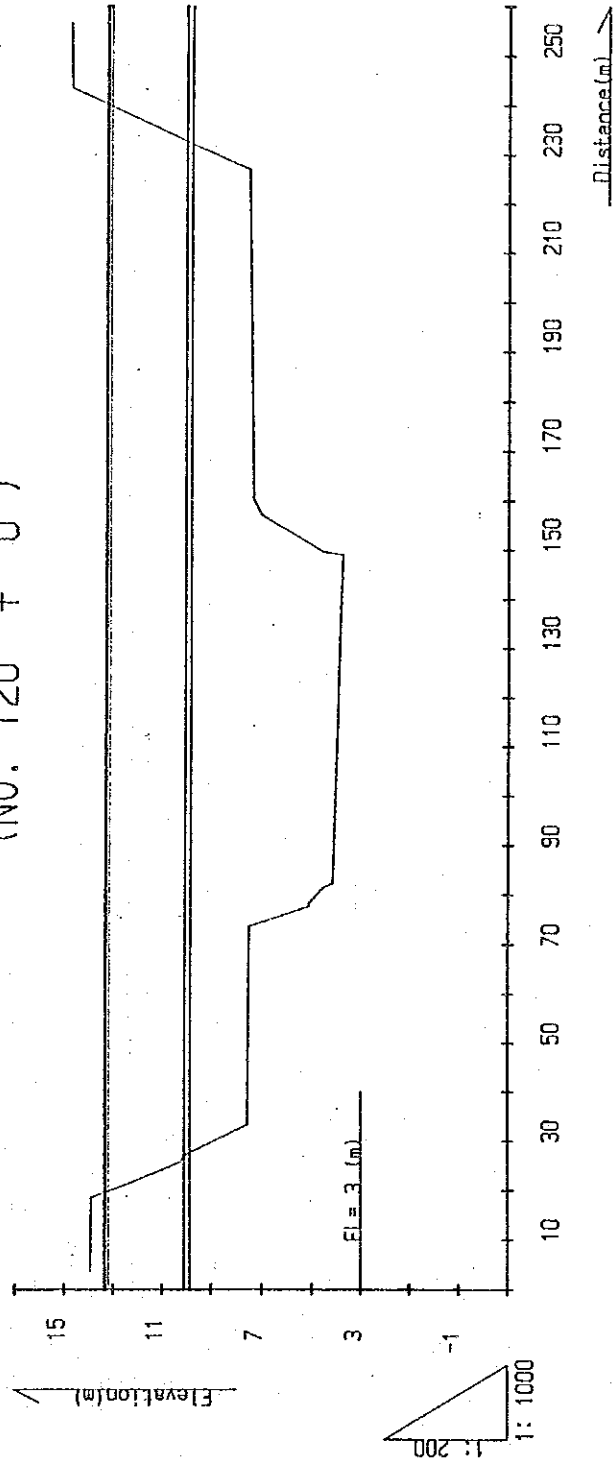


Q_{max} 1940 (m^3/s)
 Q_{min} 1790 (m^3/s)
 Q_{av} 1840 (m^3/s)
 Q_{in} 1470 (m^3/s)
 Q_{out} 1320 (m^3/s)

NO.	NO. 110 + 0
Hmin	3.8 (m)
Hmax	13.4 (m)
n	.035
L	1 / 1335
A	1691.9758 (m^2)
P	252.54 (m)
R	6.6998 (m)
V	2.7791 (m^3/s)
Q	4702.17 (m^3/s)

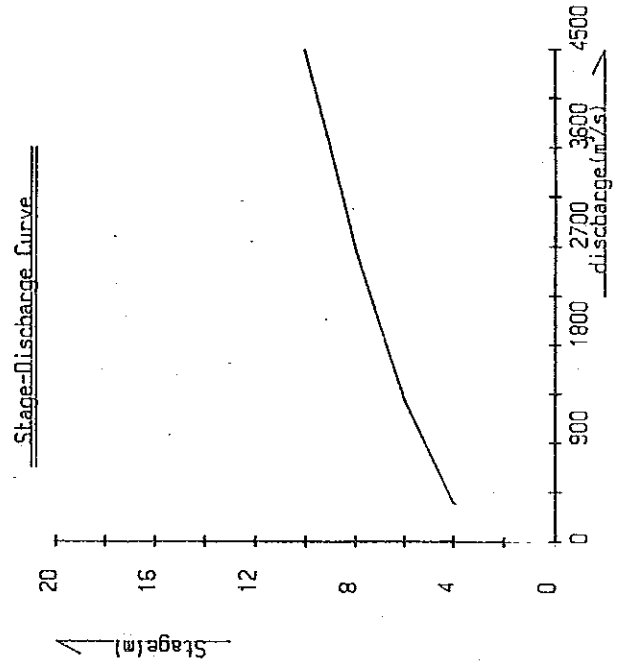


Anyang-Chong (NO. 120 + 0)

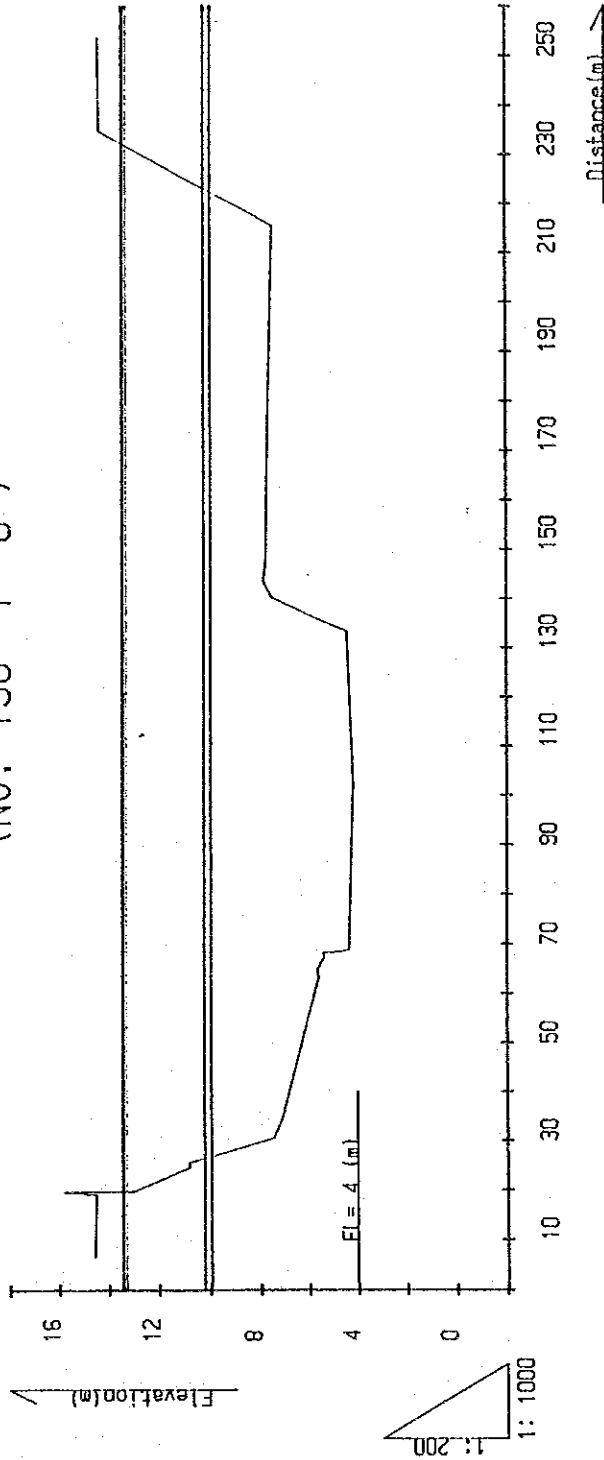


- Q_{max} 1940 (m³/s)
- Q_{me} 1790 (m³/s)
- Q₅₀ 1640 (m³/s)
- Q₂₅ 1470 (m³/s)
- Q₁₀ 1320 (m³/s)

NO.	NO. 120 + 0
H _{min}	3.8 (m)
H _{max}	13.8 (m)
D	.035
I	1 / 1335
A	1575.3628 (m ²)
P	226.6083 (m)
R	6.9519 (m)
V	2.8484 (m/s)
Q	4487.2635 (m ³ /s)

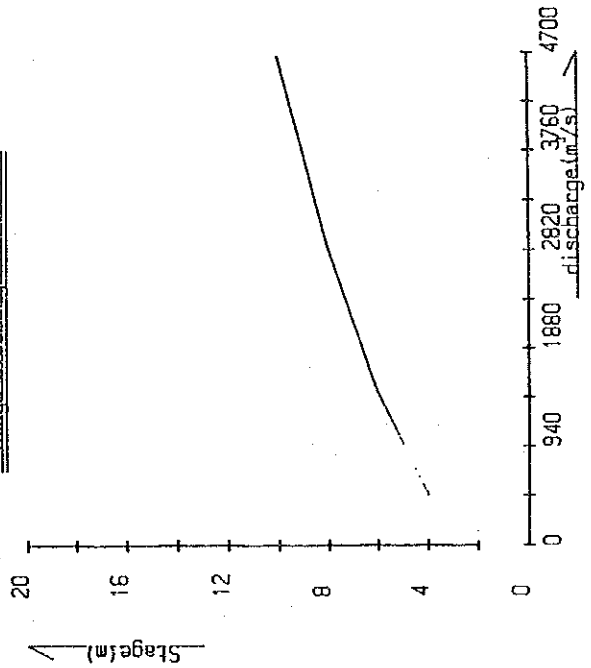


Anyang-Chong (NO. 130 + 0)



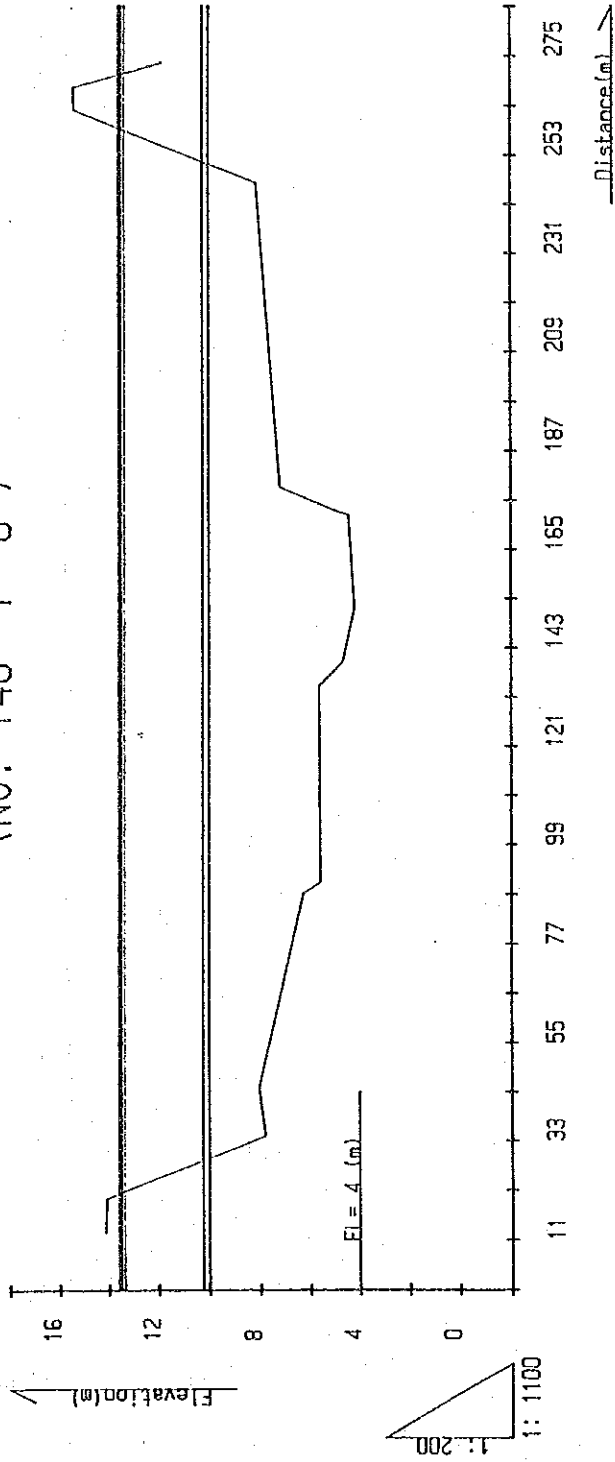
Q_{max} 1940 (m^3/s)
 Q_{min} 1790 (m^3/s)
 Q_m 1640 (m^3/s)
 Q_{av} 1470 (m^3/s)
 Q_{av} 1320 (m^3/s)

Stage-Discharge Curve

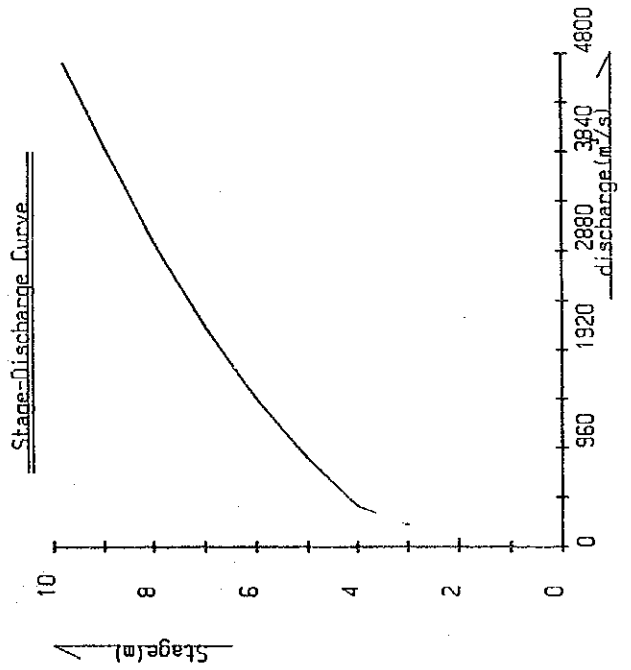


NO.	NO. 130 + 0
Hmin	4.187 (m)
Hmax	14.187 (m)
n	.035
I	1 / 1335
A	1591.7897 (m^2)
P	219.7465 (m)
R	7.2438 (m)
V	2.9275 (m/s)
Q	4659.9642 (m^3/s)

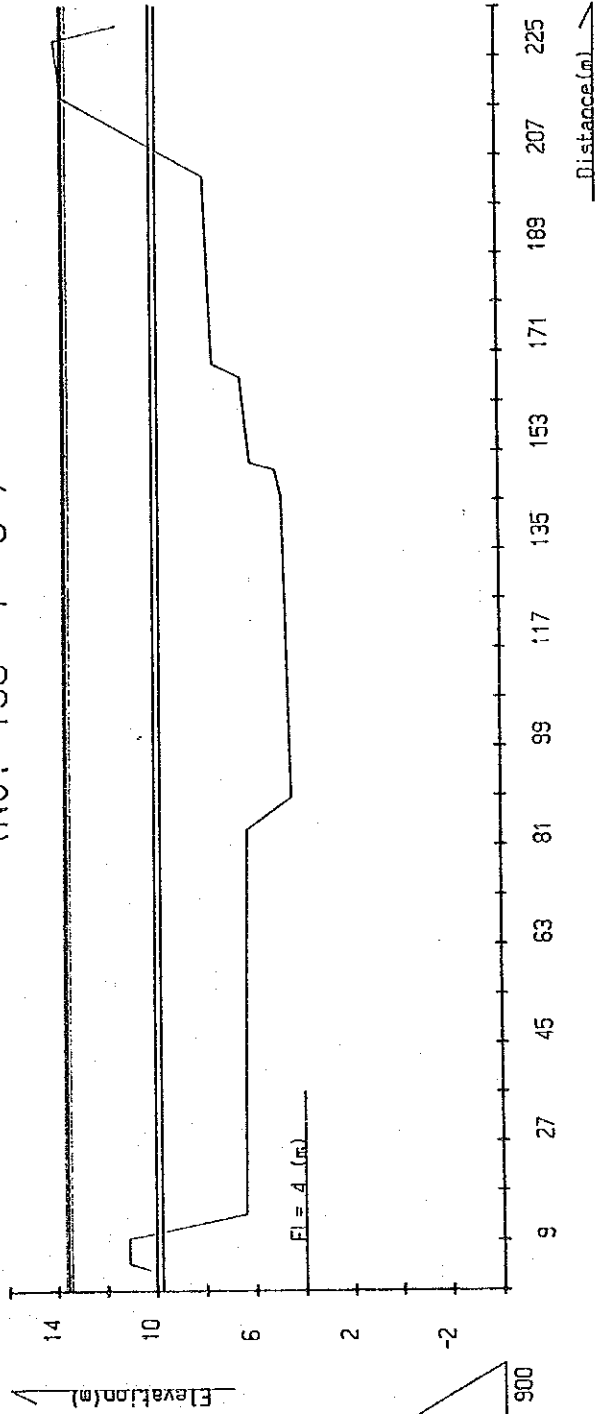
Anyang-Chong (NO. 140 + 0)



NO.	NO. 140 + 0
Hmin	4.204 (m)
Hmax	14.004 (m)
D	.035
T	1 / 1335
A	1678.1293 (m^3)
P	246.7926 (m)
R	6.7998 (m)
V	2.8067 (m/s)
Q	4710.0056 (m^3/s)

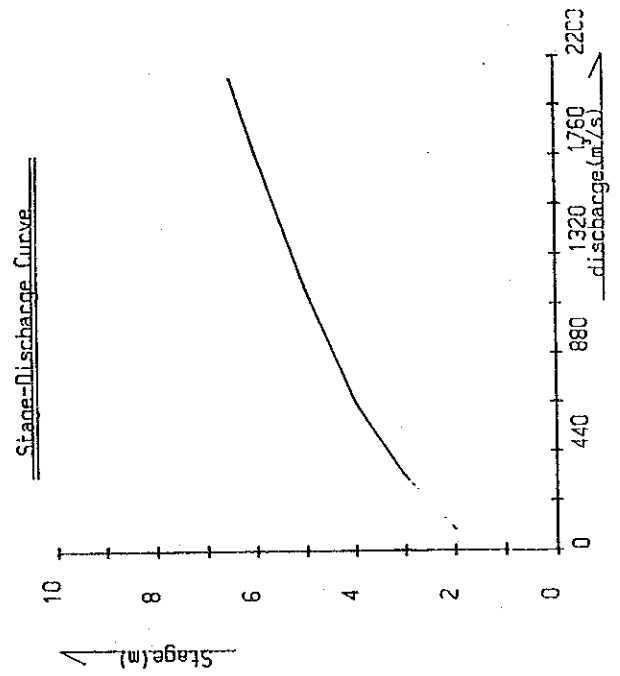


Anyang-Chong (NO. 150 + 0)

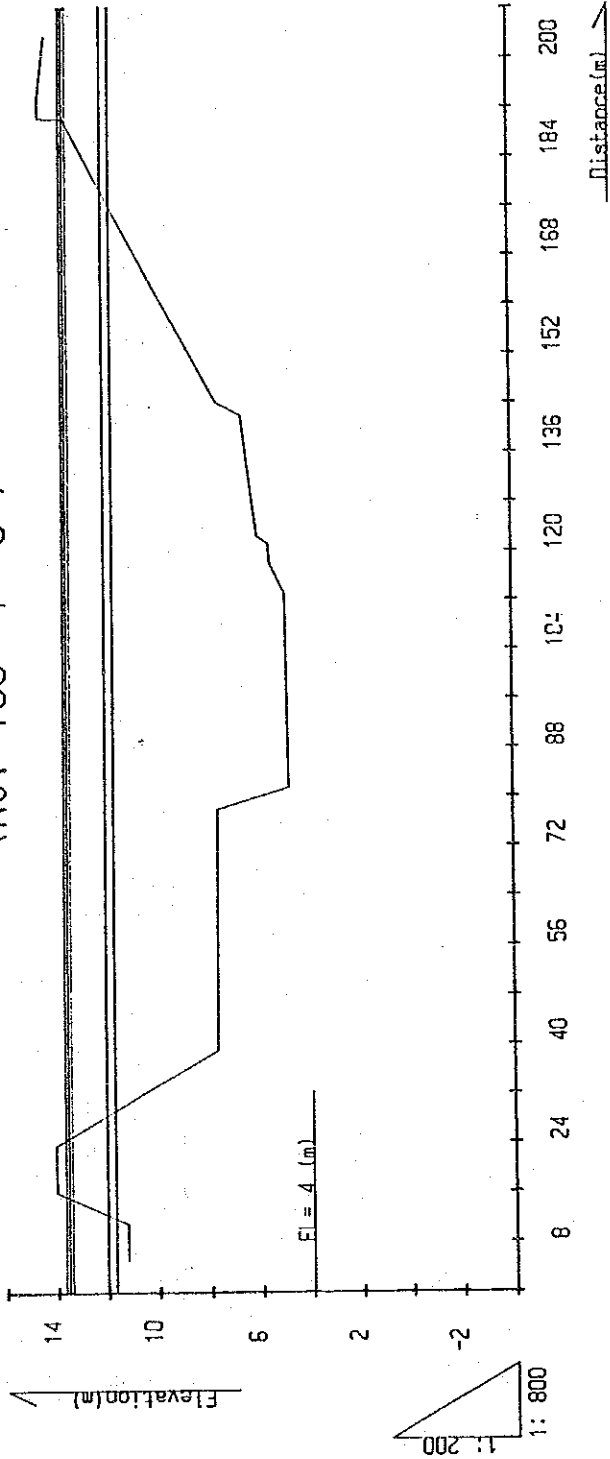


- Q_{max} 1940 (m³/s)
- Q_{min} 1790 (m³/s)
- Q_{av} 1640 (m³/s)
- Q_{cr} 1470 (m³/s)
- Q_{ur} 1320 (m³/s)

NO.	NO. 150 + 0
H _{min}	4.501 (m)
H _{max}	11.001 (m)
n	.035
I	1/1335
A	963.7036 (m ²)
P	206.156 (m)
R	4.6746 (m)
V	2.1862 (m/s)
Q	2106.8488 (m ³ /s)

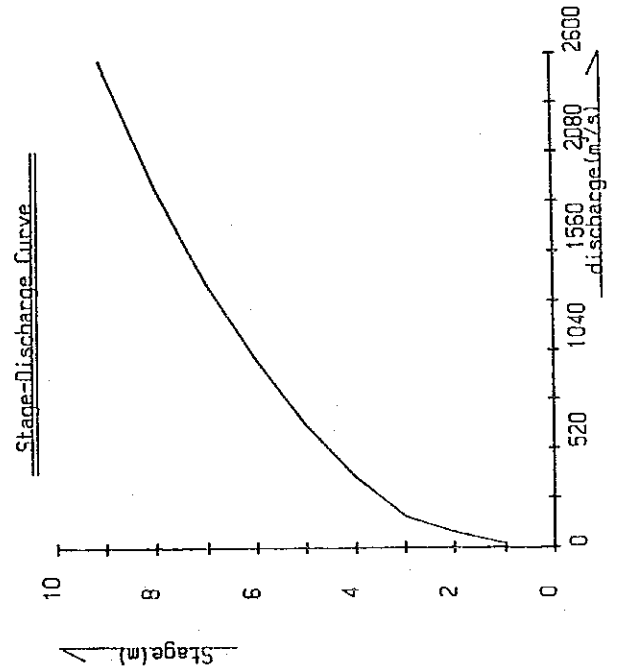


Anyang-Chong (NO. 160 + 0)

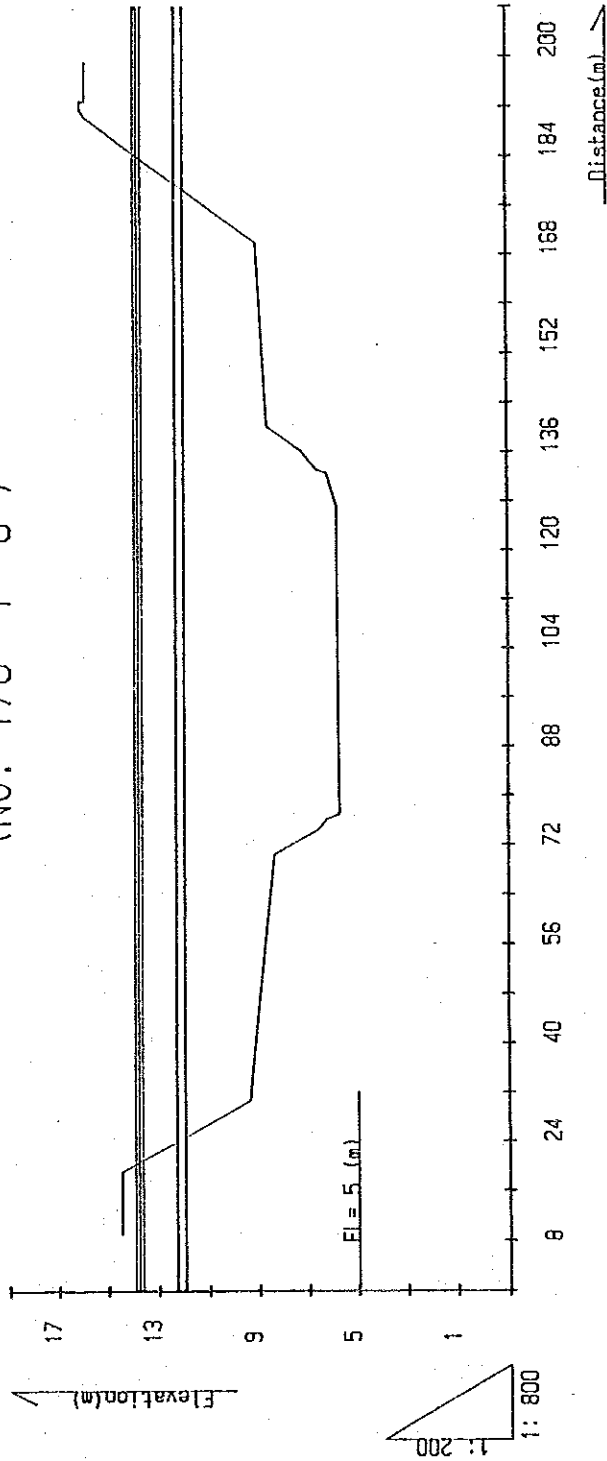


Q_{max} 1940 (m³/s)
 Q_{des} 1790 (m³/s)
 Q_{min} 1540 (m³/s)
 Q_{av} 1470 (m³/s)
 Q_{in} 1320 (m³/s)

NO.	NO. 160 + 0
H _{min}	4.903 (m)
H _{max}	14.003 (m)
n	.035
I	1 / 1335
A	1029.2547 (m ²)
P	181.4227 (m)
R	5.6732 (m)
V	2.4874 (m/s)
Q	2560.1683 (m ³ /s)

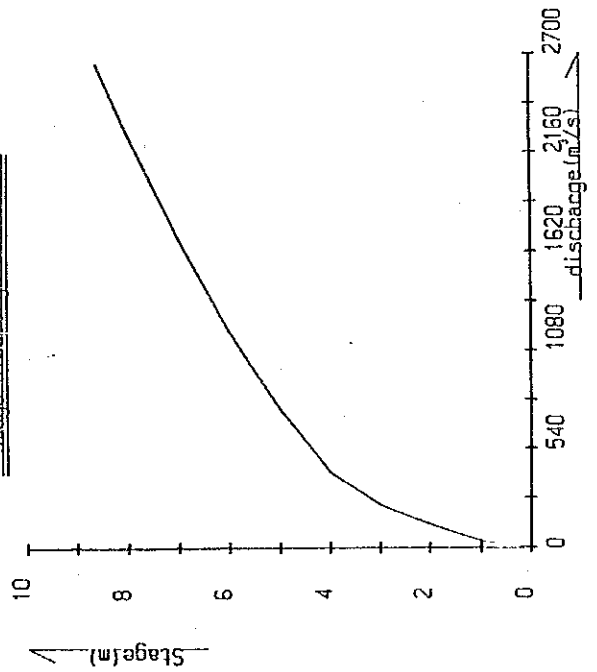


Anyang-Chong (NO. 170 + 0)



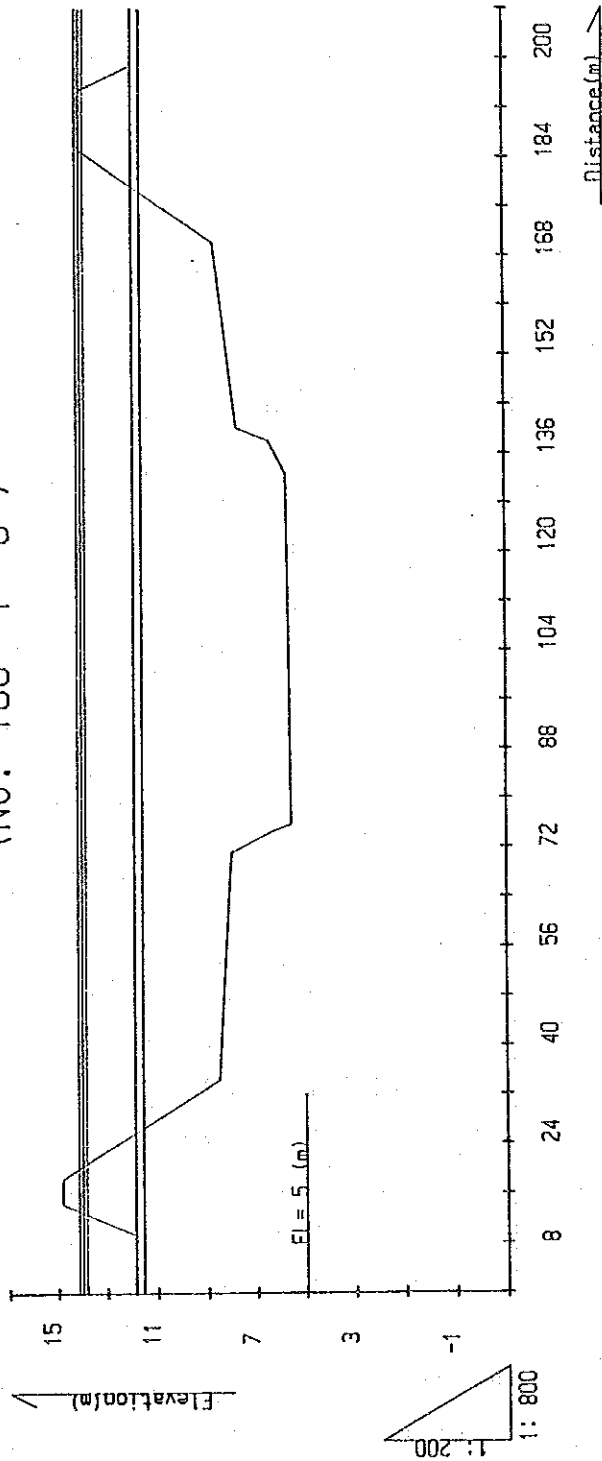
$Q_{in} 1940 \text{ (m}^3\text{/s)}$
 $Q_{out} 1790 \text{ (m}^3\text{/s)}$
 $Q_{in} 1640 \text{ (m}^3\text{/s)}$
 $Q_{in} 1470 \text{ (m}^3\text{/s)}$
 $Q_{in} 1320 \text{ (m}^3\text{/s)}$

Stage-Discharge Curve



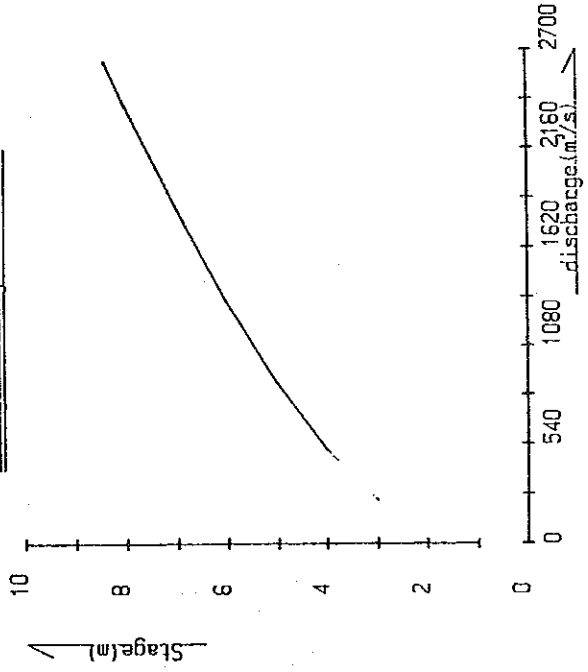
NO.	NO. 170 + 0
Hmin	5.732 (m)
Hmax	14.332 (m)
D	0.35
I	1 / 1335
A	1021.3758 (m ²)
P	169.0644 (m)
R	6.0413 (m)
V	2.5939 (m/s)
Q	2649.3467 (m ³ /s)

Anyang-Chong (NO. 180 + 0)



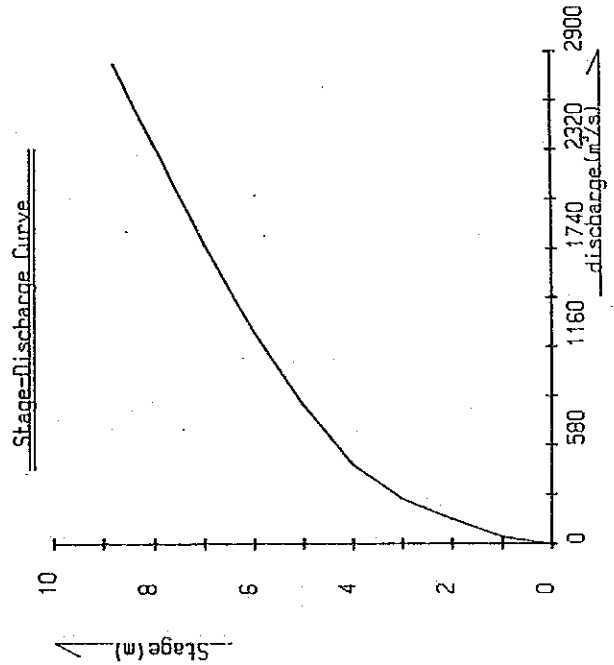
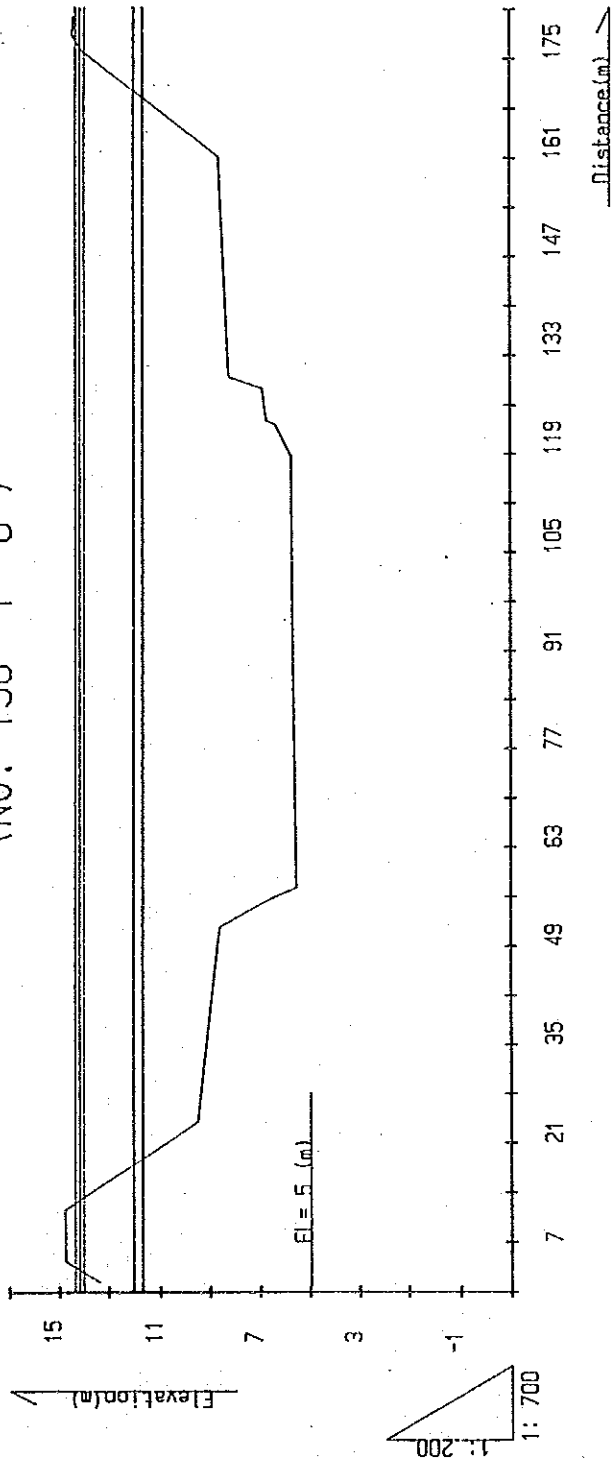
$Q_{100} = 1840 \text{ (m}^3/\text{s)}$
 $Q_{50} = 1790 \text{ (m}^3/\text{s)}$
 $Q_{25} = 1640 \text{ (m}^3/\text{s)}$
 $Q_{10} = 1470 \text{ (m}^3/\text{s)}$
 $Q_0 = 1320 \text{ (m}^3/\text{s)}$

Stage-Discharge Curve



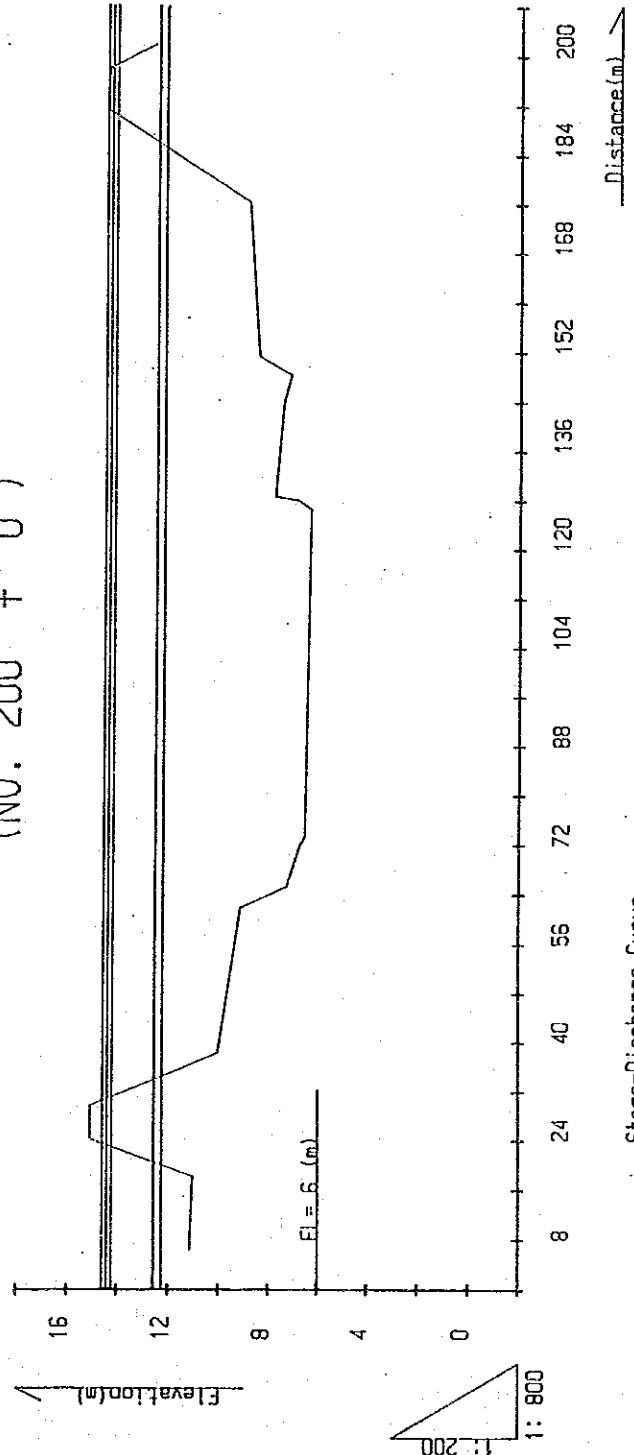
NO.	NO. 180 + 0
Hmin	5.604 (m)
Hmax	14.004 (m)
n	.035
I	1 / 1335
A	1036.7297 (m ²)
P	176.5281 (m)
R	5.8729 (m)
V	2.5454 (m/s)
Q	2638.8917 (m ³ /s)

Anyang-Chong (NO. 190 + 0)

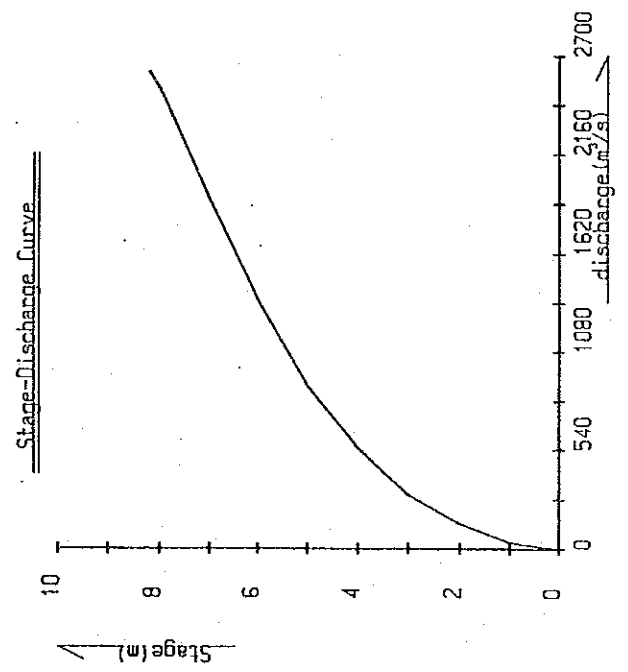


NO.	NO. 190 + 0
Hmin	5.6 (m)
Hmax	14.4 (m)
n	0.35
I	1 / 1335
A	1065.7219 (m ²)
P	170.9429 (m)
R	6.2344 (m)
V	2.6488 (m/s)
Q	2822.8842 (m ³ /s)

Anyang-Chong (NO. 200 + 0)

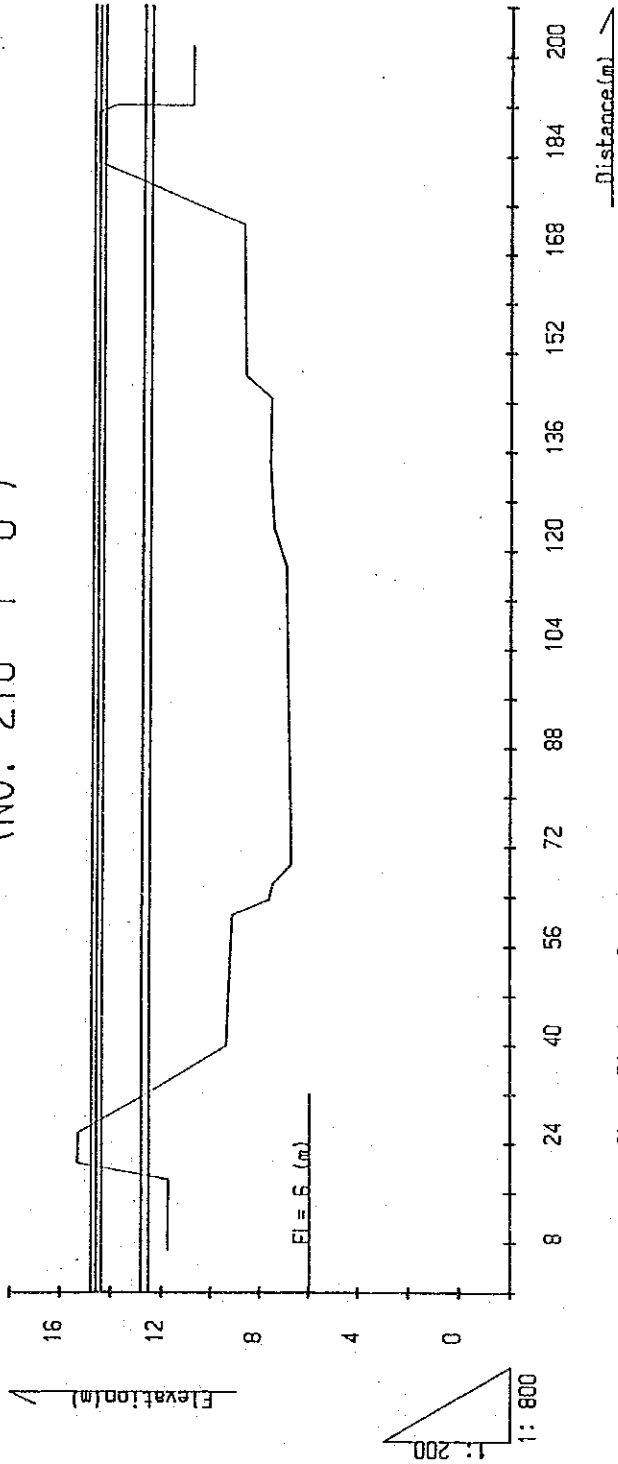


- Q_{max} 1940 (m³/s)
- Q_{min} 1790 (m³/s)
- Q_{av} 1640 (m³/s)
- Q_{av} 1470 (m³/s)
- Q_{av} 1320 (m³/s)



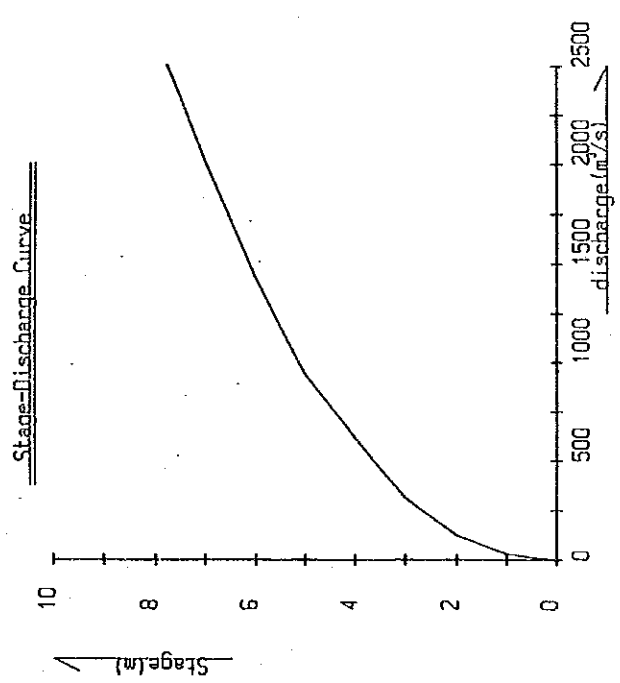
NO	NO. 200 + 0
H _{min}	6.37 (m)
H _{max}	14.57 (m)
n	.035
L	1 / 1335
A	1063.0441 (m ²)
P	191.2266 (m)
R	5.5591 (m)
V	2.4539 (m/s)
Q	2608.6039 (m ³ /s)

Anyang-Chong (NO. 210 + 0)

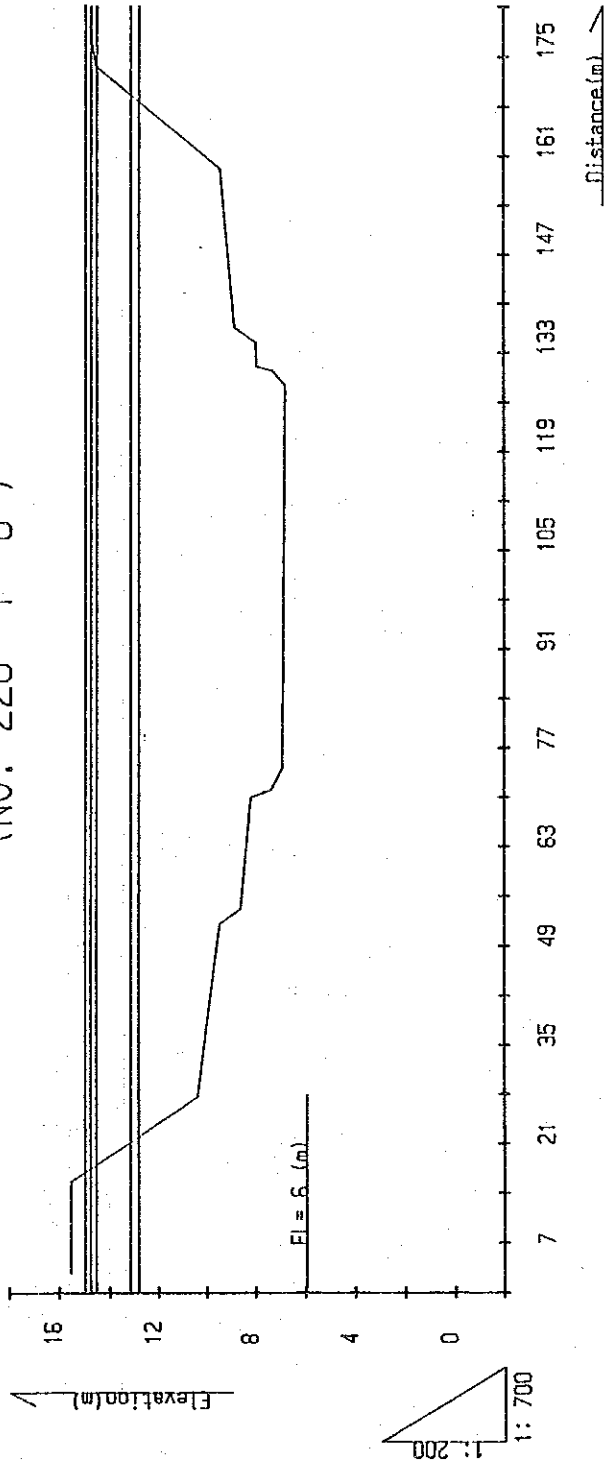


- Q_{max} 1940 (m³/s)
- Q_{lim} 1790 (m³/s)
- Q_{max} 1640 (m³/s)
- Q_{max} 1470 (m³/s)
- Q_{lim} 1320 (m³/s)

NO.	NO. 210 + 0
H _{min}	6.79 (m)
H _{max}	14.59 (m)
n	0.35
I	1 / 1335
A	1027.1974 (m ²)
P	187.2508 (m)
R	5.4857 (m)
V	2.4323 (m/s)
Q	2498.4523 (m ³ /s)

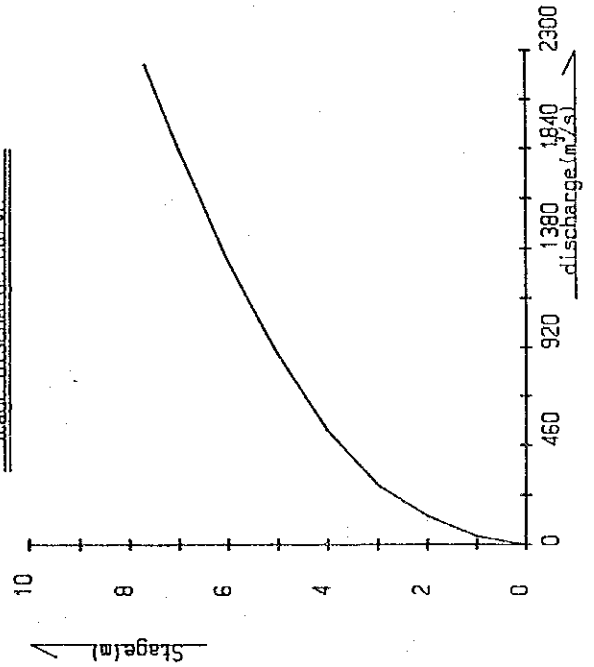


Anyang-Chong (NO. 220 + 0)



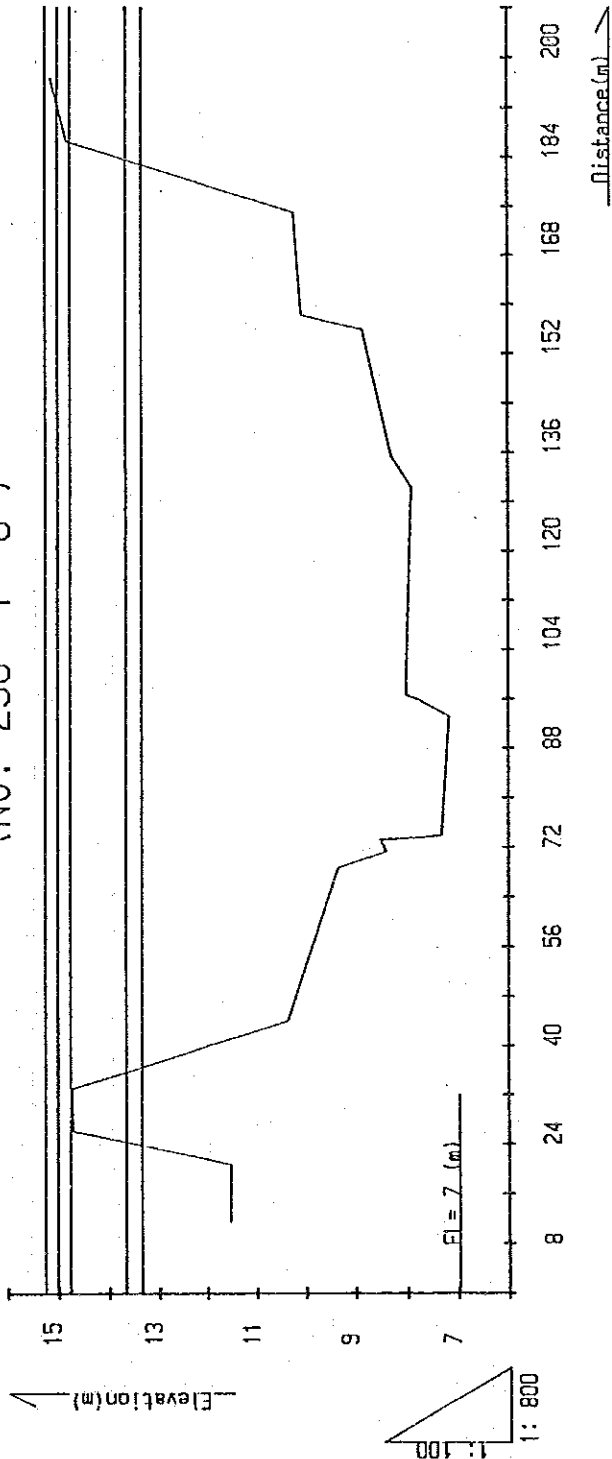
Qm 1940 (m³/s)
 Qm 1750 (m³/s)
 Qm 1650 (m³/s)
 Qm 1470 (m³/s)
 Qm 1320 (m³/s)

Stage-Discharge Curve



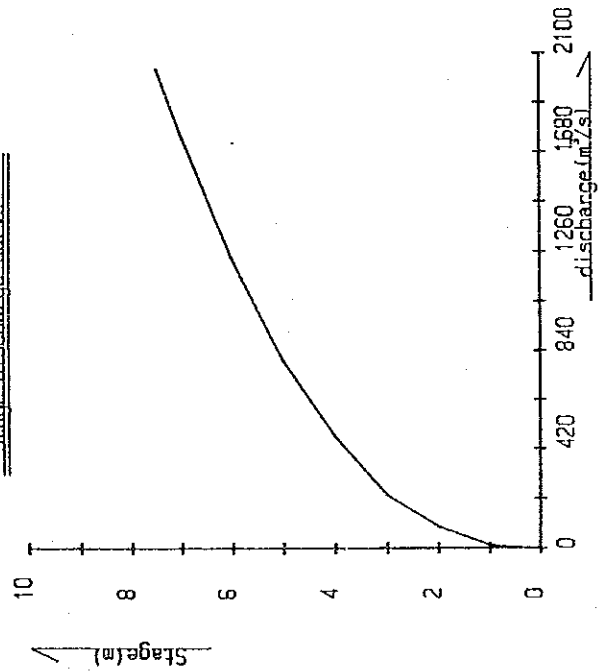
NO	NO. 220 + 0
Hmin	6.903 (m)
Hmax	14.603 (m)
n	0.35
l	1 / 1335
A	897.8286 (m ²)
P	158.2871 (m)
R	5.6722 (m)
V	2.4871 (m/s)
Q	2232.9895 (m ³ /s)

Anyang-Chong (NO. 230 + 0)



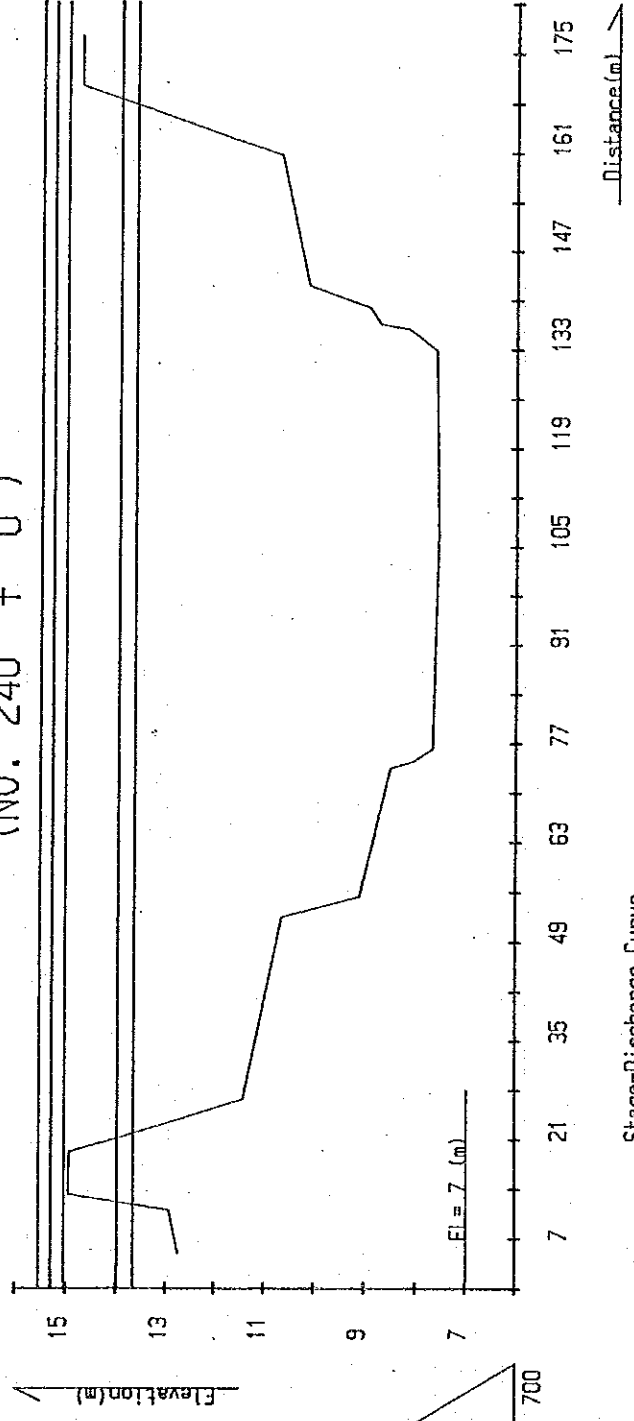
Qmax 1940 (m³/s)
 Qave 1790 (m³/s)
 Qmin 1540 (m³/s)
 Qmax 1470 (m³/s)
 Qmin 1320 (m³/s)

Stage-Discharge Curve



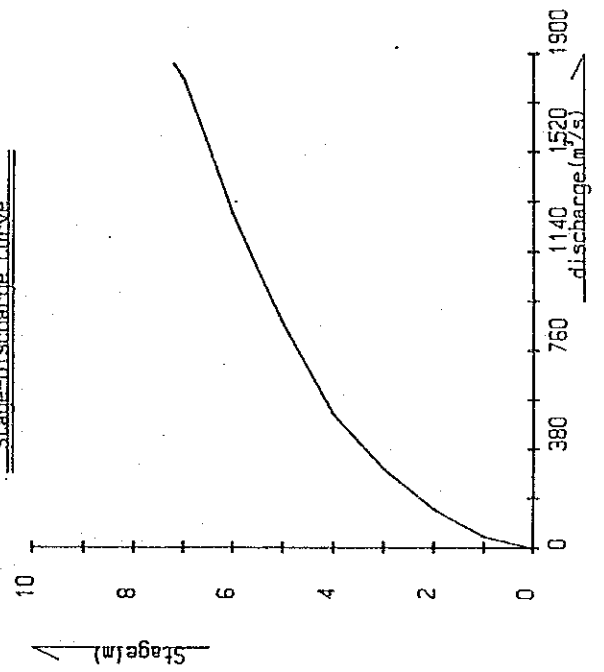
NO	NO	230 + 0
Hmin	7.203	(m)
Hmax	14.703	(m)
n	0.35	
L	1 / 1335	
A	875.9197	(m ²)
P	171.3415	(m)
R	5.1121	(m)
V	2.3205	(m/s)
Q	2032.5716	(m ³ /s)

Anyang-Chong (NO. 240 + 0)



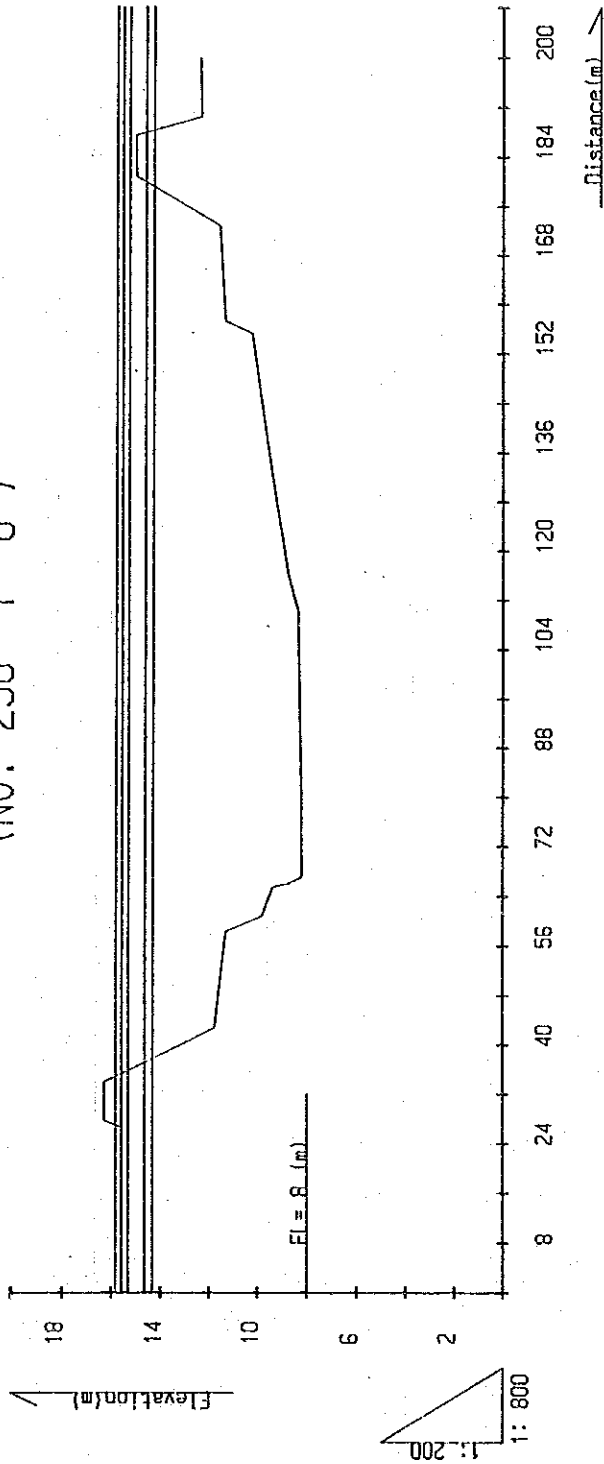
- Qm 1940 (m³/s)
- Qm 1790 (m³/s)
- Qm 1640 (m³/s)
- Qm 1470 (m³/s)
- Qm 1320 (m³/s)

Stage-Discharge Curve



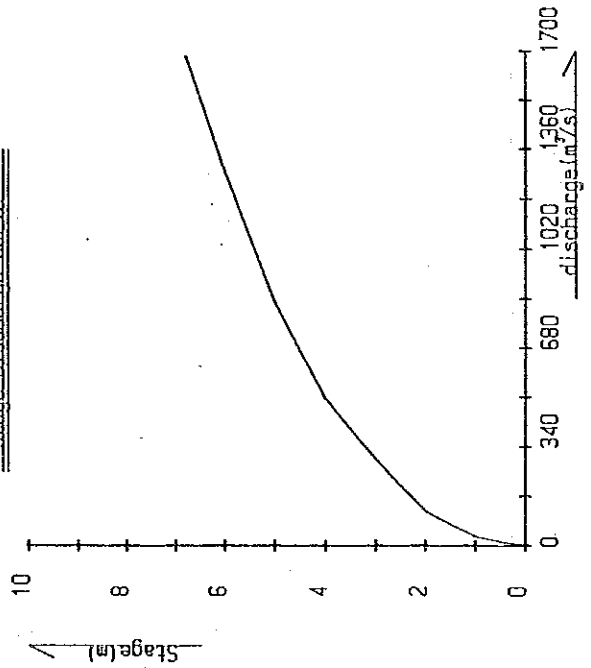
NO.	NO. 240 + 0
Hmin	7.602 (m)
Hmax	14.802 (m)
n	0.35
I	1 / 1335
A	824.5487 (m ²)
P	169.1103 (m)
R	4.8758 (m)
V	2.2485 (m/s)
Q	1853.9976 (m ³ /s)

Anyang-Chong (NO. 250 + 0)



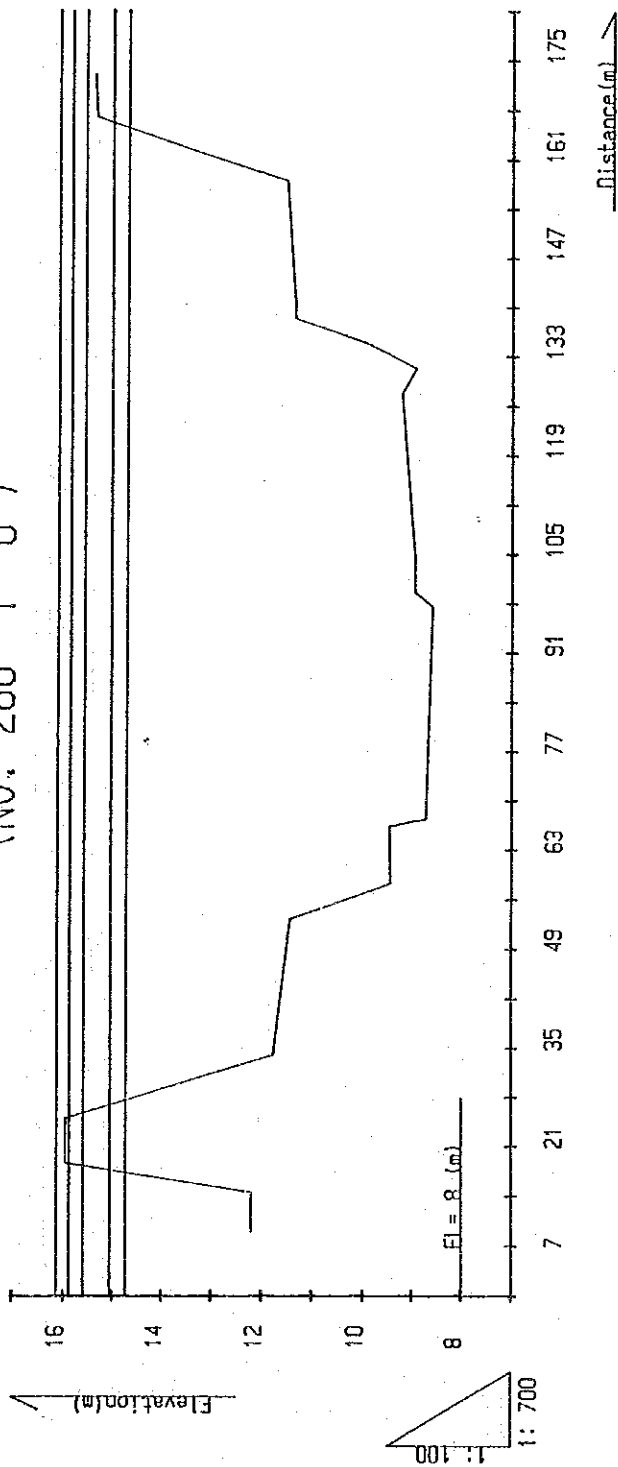
Qm 1940 (m²/s)
 Qm 1790 (m²/s)
 Qm 1640 (m²/s)
 Qm 1470 (m²/s)
 Qm 1320 (m²/s)

Stage-Discharge Curve



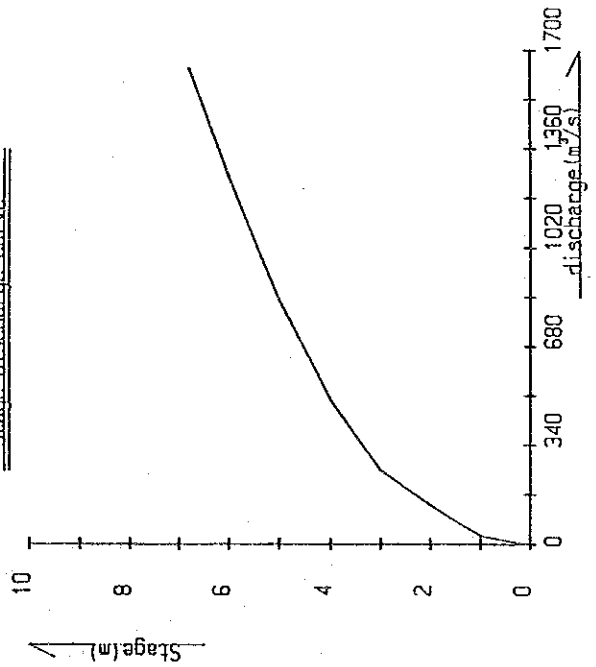
NO.	NO. 250 + 0
Hmin	8.242 (m)
Hmax	15.042 (m)
n	0.35
I	1/1335
A	760.712 (m ²)
P	160.3731 (m)
R	4.7434 (m)
V	2.2076 (m/s)
Q	1679.3479 (m ² /s)

Anyang-Chong (NO. 260 + 0)



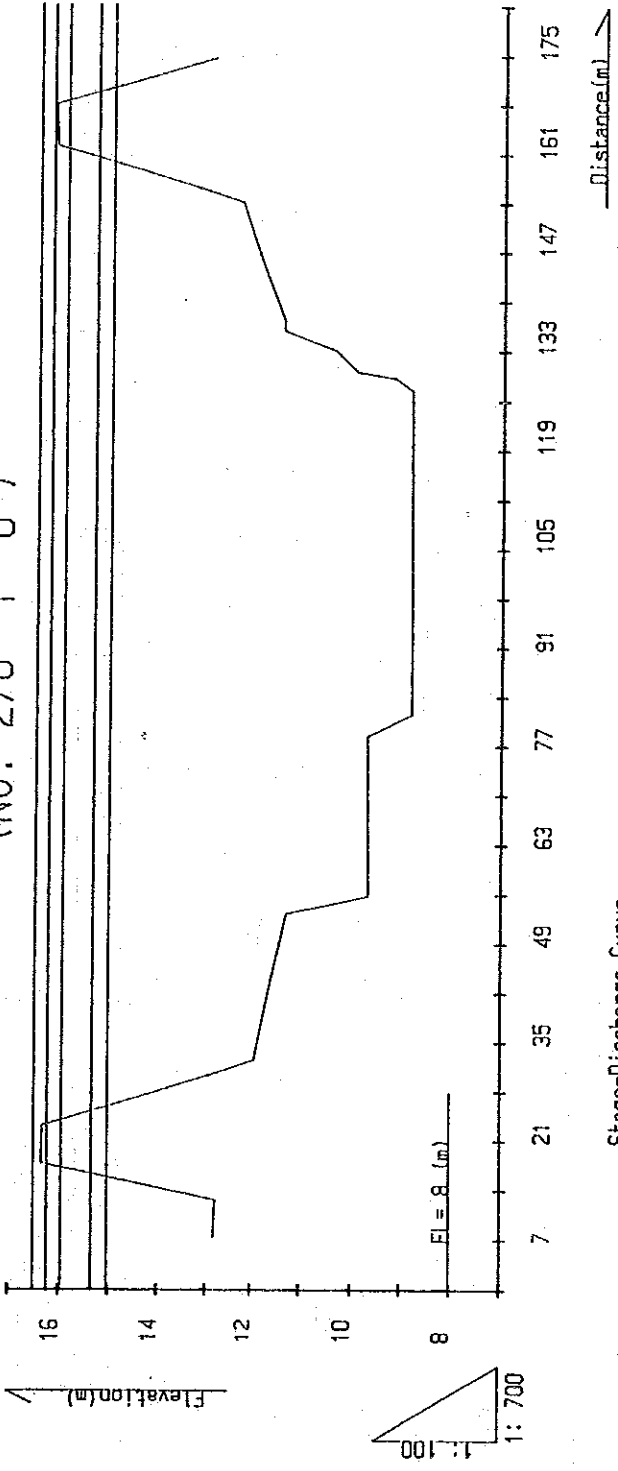
$Q_{max} 1240 \text{ (m}^3/\text{s)}$
 $Q_{10m} 1790 \text{ (m}^3/\text{s)}$
 $Q_{5m} 1640 \text{ (m}^3/\text{s)}$
 $Q_{2m} 1470 \text{ (m}^3/\text{s)}$
 $Q_{1m} 1320 \text{ (m}^3/\text{s)}$

Stage-Discharge Curve



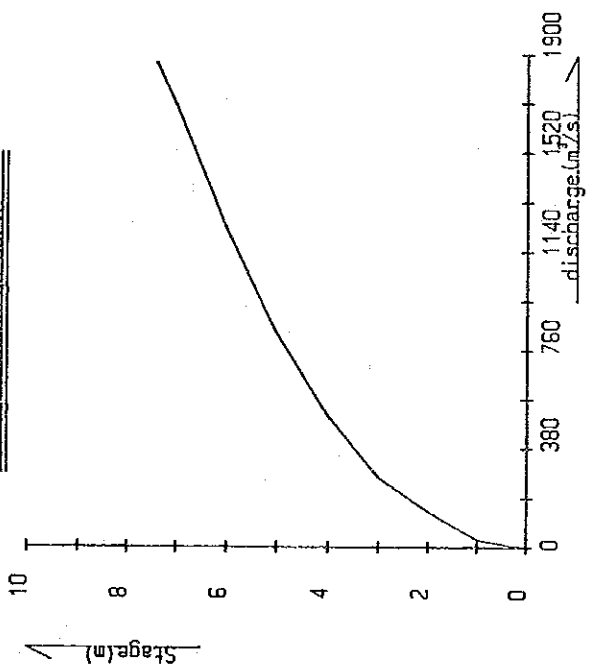
NO.	NO. 260 + 0
Hmin	8.603 (m)
Hmax	15.403 (m)
D	.035
I	1 / 1335
A	740.1683 (m ³)
P	155.8709 (m)
R	4.7486 (m)
V	2.2092 (m/s)
Q	1635.1798 (m ³ /s)

Anyang-Chong (NO. 270 + 0)



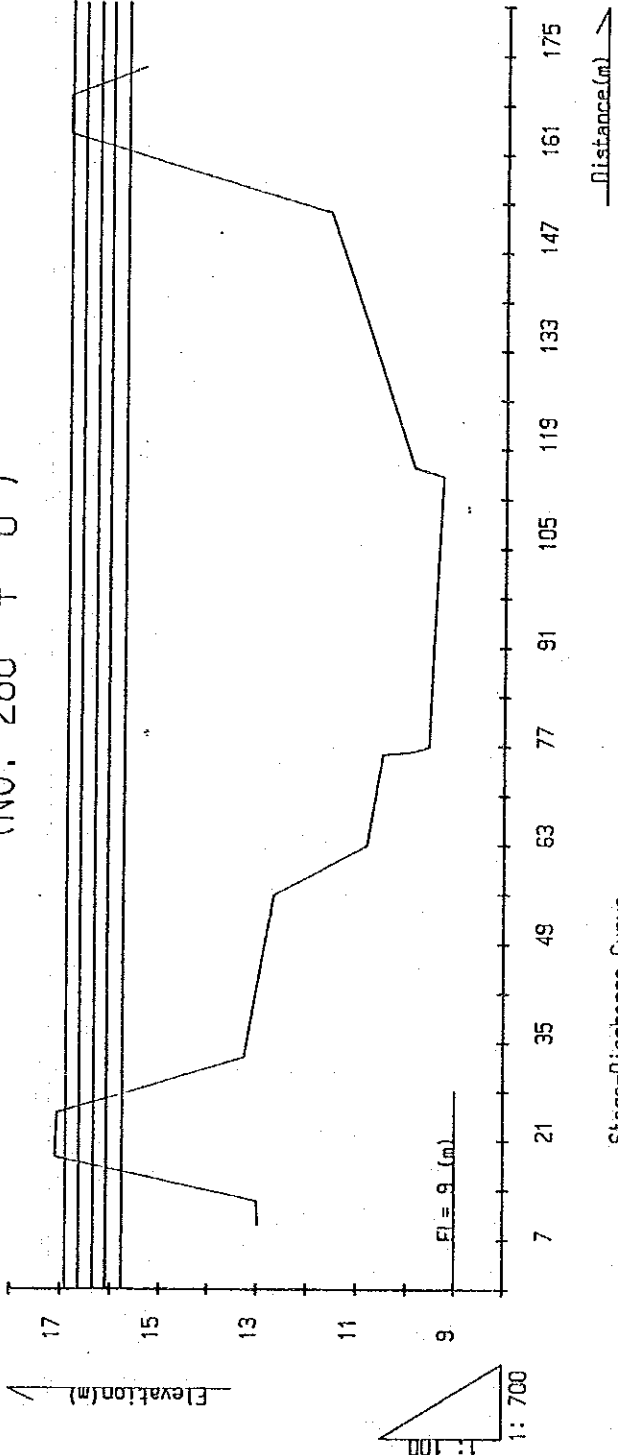
- Qmax 1940 (m³/s)
- Qum 1790 (m³/s)
- Qm 1540 (m³/s)
- Qmin 1470 (m³/s)
- Qun 1320 (m³/s)

Stage-Discharge Curve

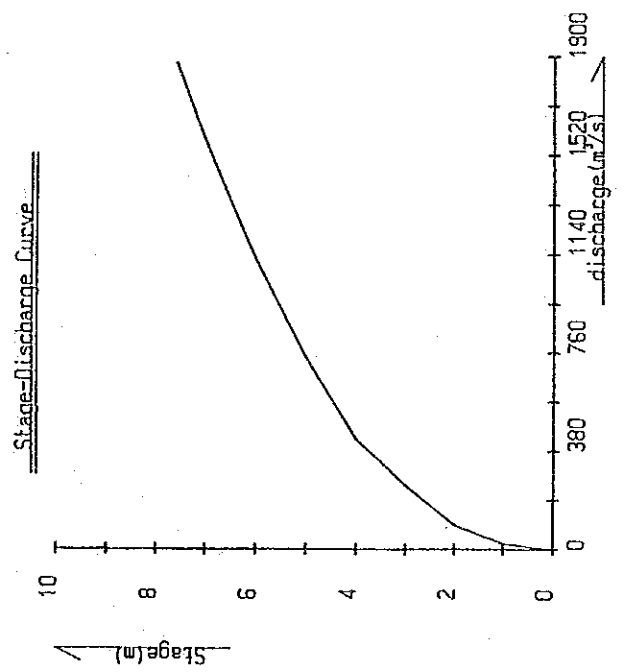


NO.	NO. 270 + 0
Hmin	8.8 (m)
Hmax	16.2 (m)
n	.035
I	1 / 1335
A	822.0234 (m ²)
P	166.4392 (m)
R	4.9389 (m)
V	2.2678 (m/s)
Q	1864.1847 (m ³ /s)

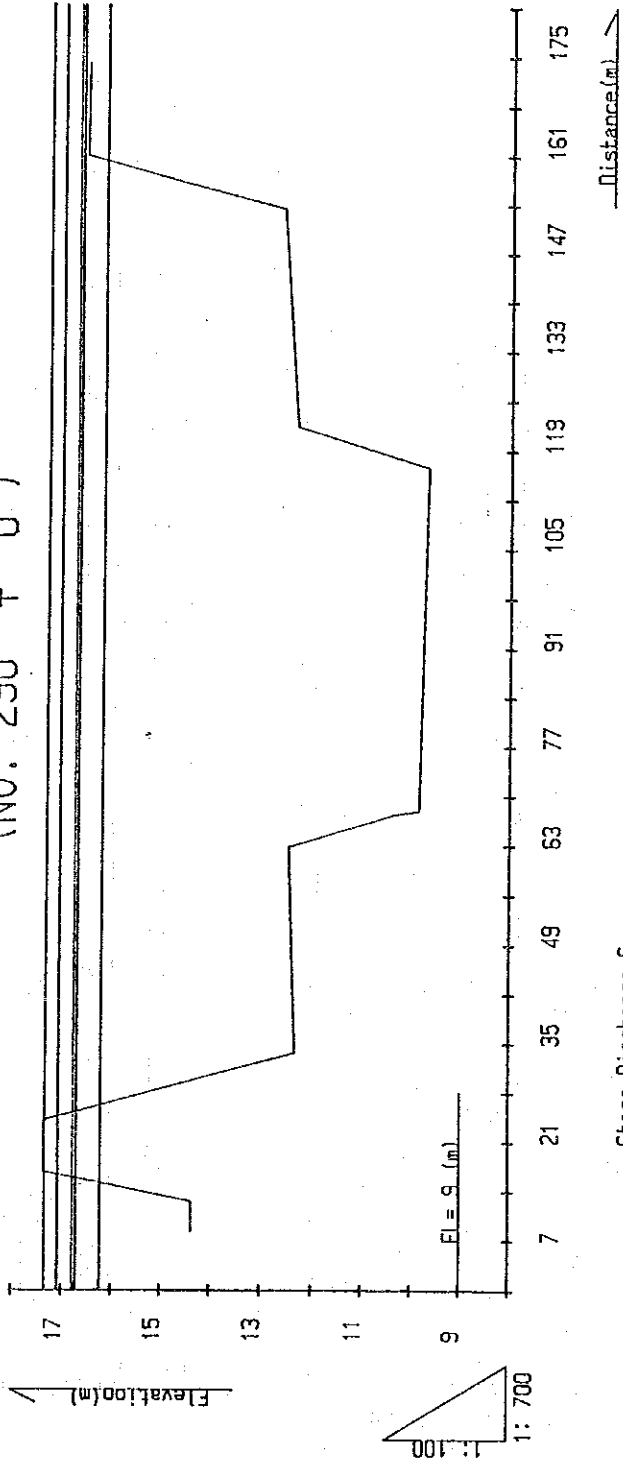
Anyang-Chong (NO. 280 + 0)



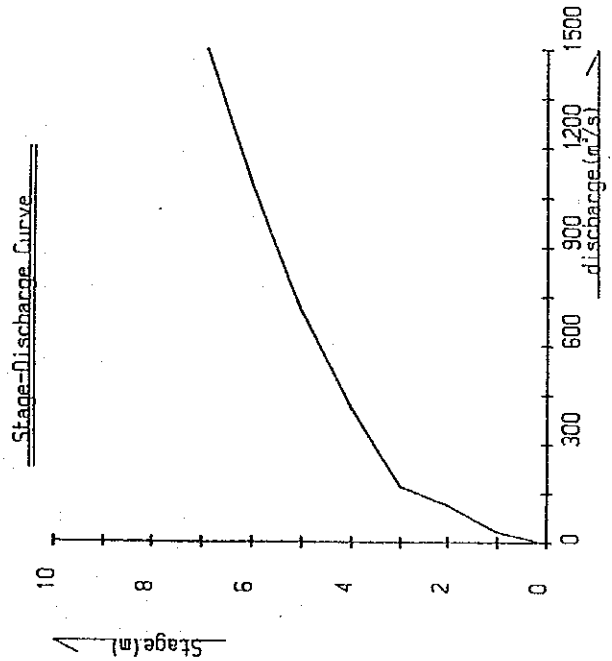
NO.	NO. 280 + 0
H _{min}	9.301 (m)
H _{max}	16.901 (m)
n	.035
I	1/1335
A	802.3152 (m ²)
P	155.9752 (m)
R	5.1439 (m)
V	2.3302 (m/s)
Q	1869.5548 (m ³ /s)



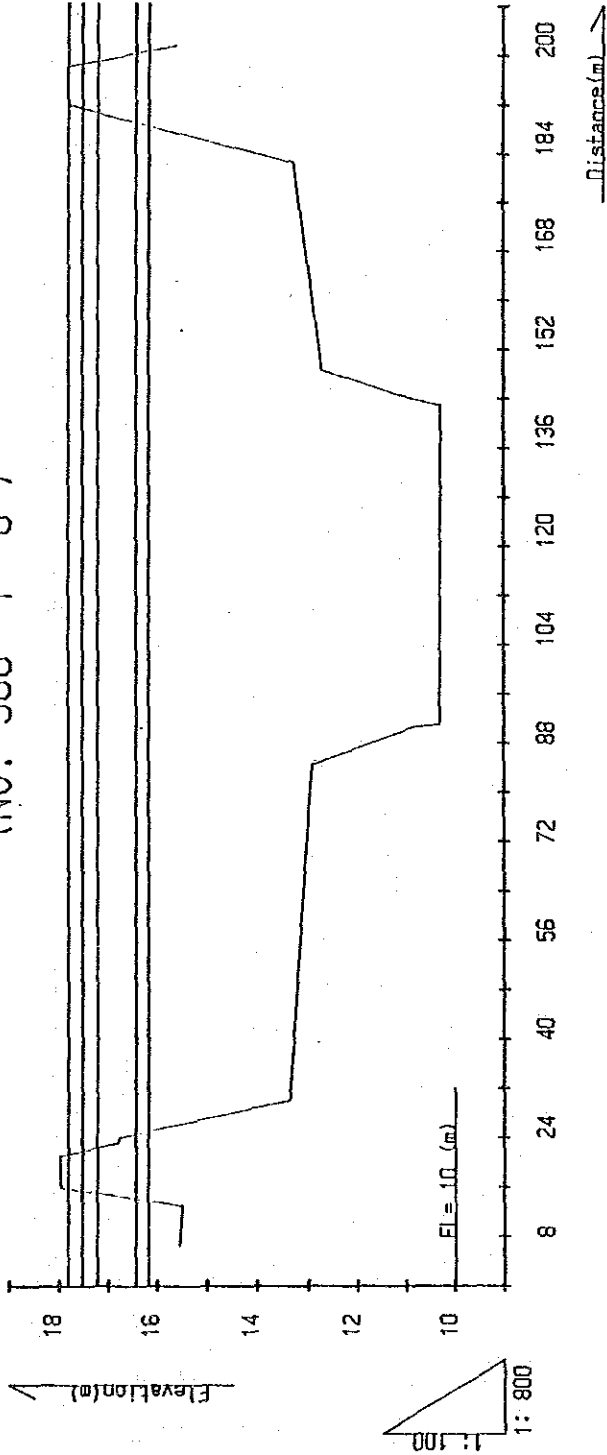
Anyang-Chong (NO. 290 + 0)



NO.	NO. 290 + 0
H _{min}	9.701 (m)
H _{max}	16.601 (m)
n	.035
L	1 / 1335
A	685.4096 (m ²)
P	146.9202 (m)
R	4.6652 (m)
V	21.833 (m ³ /s)
Q	1496.4548 (m ³ /s)

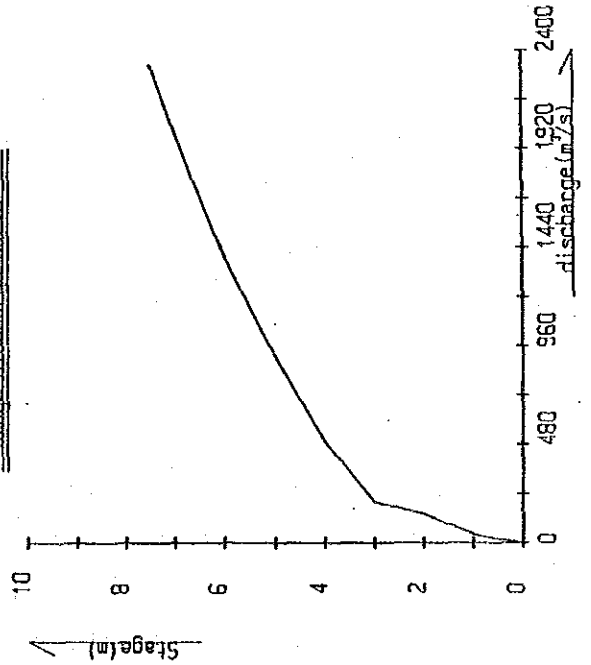


Anyang-Chong (NO. 300 + 0)



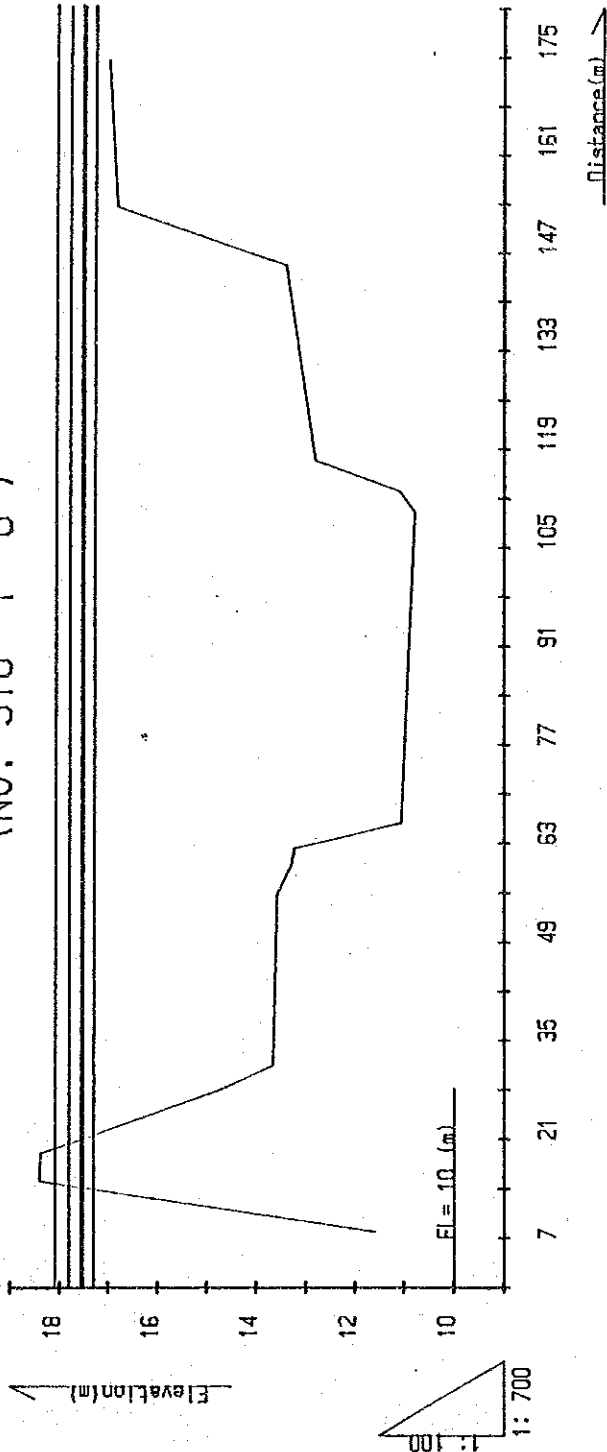
Dis. 1940 (m³/s)
 Dis. 1790 (m³/s)
 Dis. 1640 (m³/s)
 Dis. 1470 (m³/s)
 Dis. 1320 (m³/s)

Stage-Discharge Curve

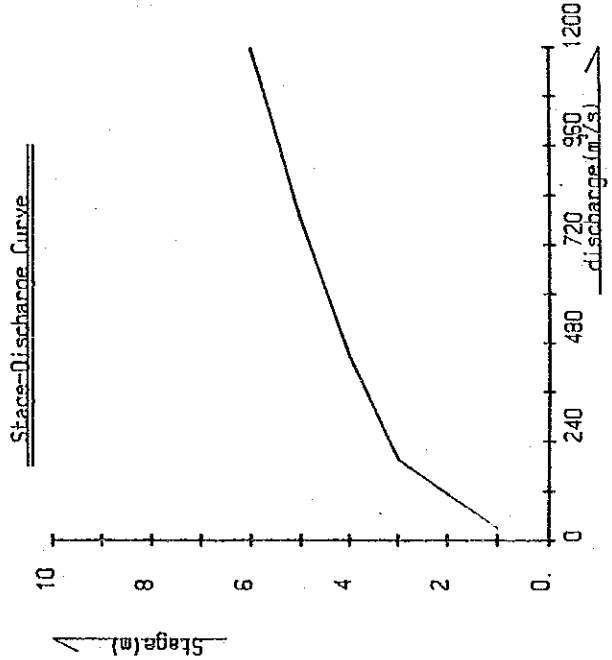


NO	NO. 300 + 0
Hmin	10.301 (m)
Hmax	17.801 (m)
n	0.35
L	171.129
A	937.4812 (m ²)
P	188.0195 (m)
R	4.9861 (m)
V	2.4818 (m ³ /s)
Q	2326.6409 (m ³ /s)

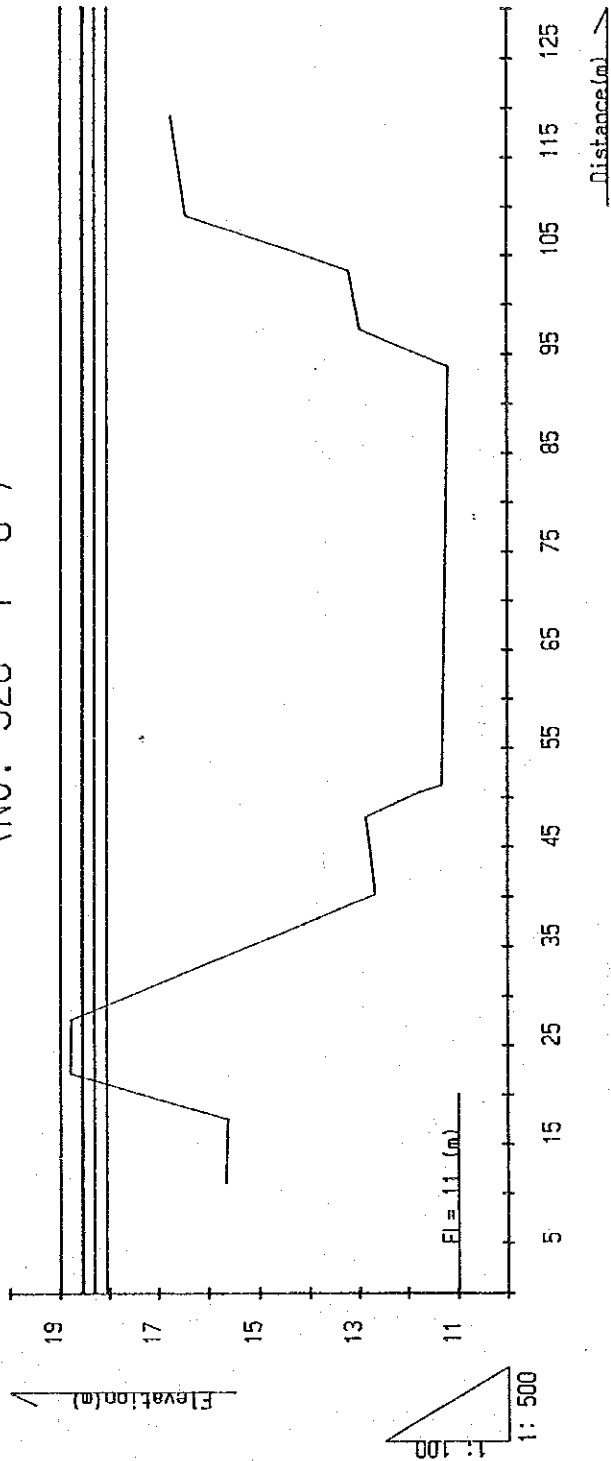
Anyang-Chong (NO. 310 + 0)



NO.	NO. 310 + 0
Hmin	10.803 (m)
Hmax	16.803 (m)
n	.035
I	1/1129
A	558.4518 (m ²)
P	140.3407 (m)
R	3.9793 (m)
V	2.1353 (m/s)
Q	1192.4621 (m ³ /s)

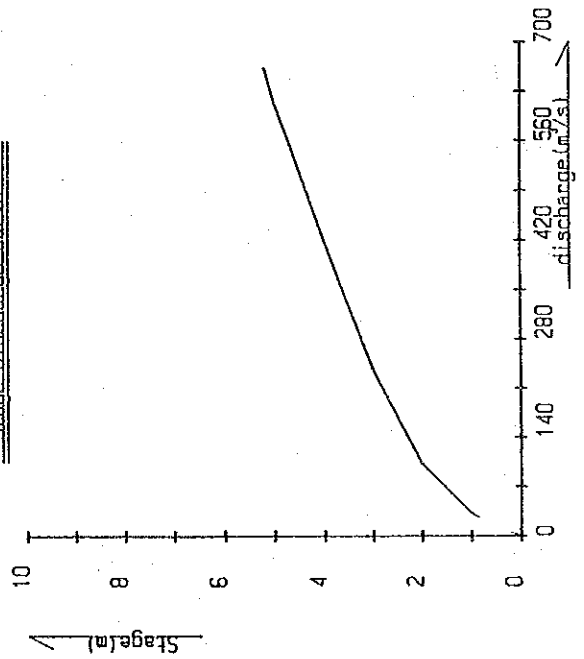


Anyang-Chong (NO. 320 + 0)



Q_{max} 1940 (m³/s)
 Q_{min} 1790 (m³/s)
 Q_{avg} 1640 (m³/s)
 Q_{cr} 1470 (m³/s)
 Q_{ur} 1320 (m³/s)

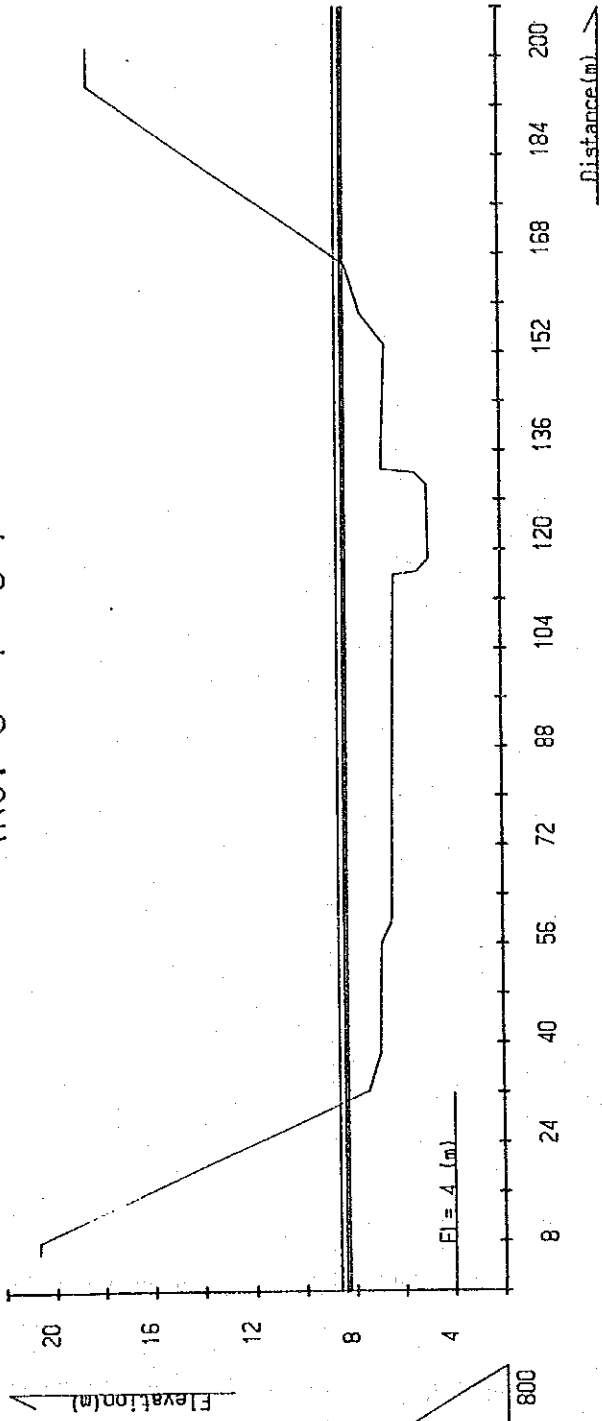
Stage-Discharge Curve



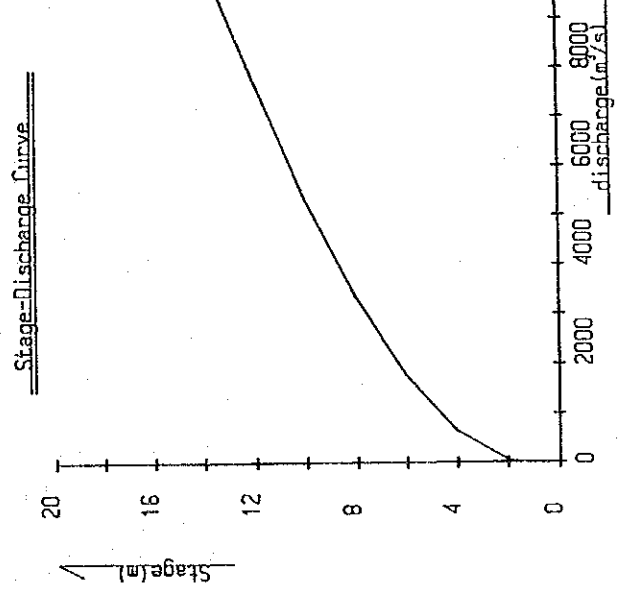
NO.	NO. 320 + 0
H _{min}	11.2 (m)
H _{max}	16.4 (m)
n	0.35
L	1 / 1129
A	324.0144 (m ²)
P	86.8049 (m)
R	3.7327 (m)
V	2.0461 (m ³ /s)
Q	662.9658 (m ³ /s)

Yangjiae-Chong (NO. 0 + 0)

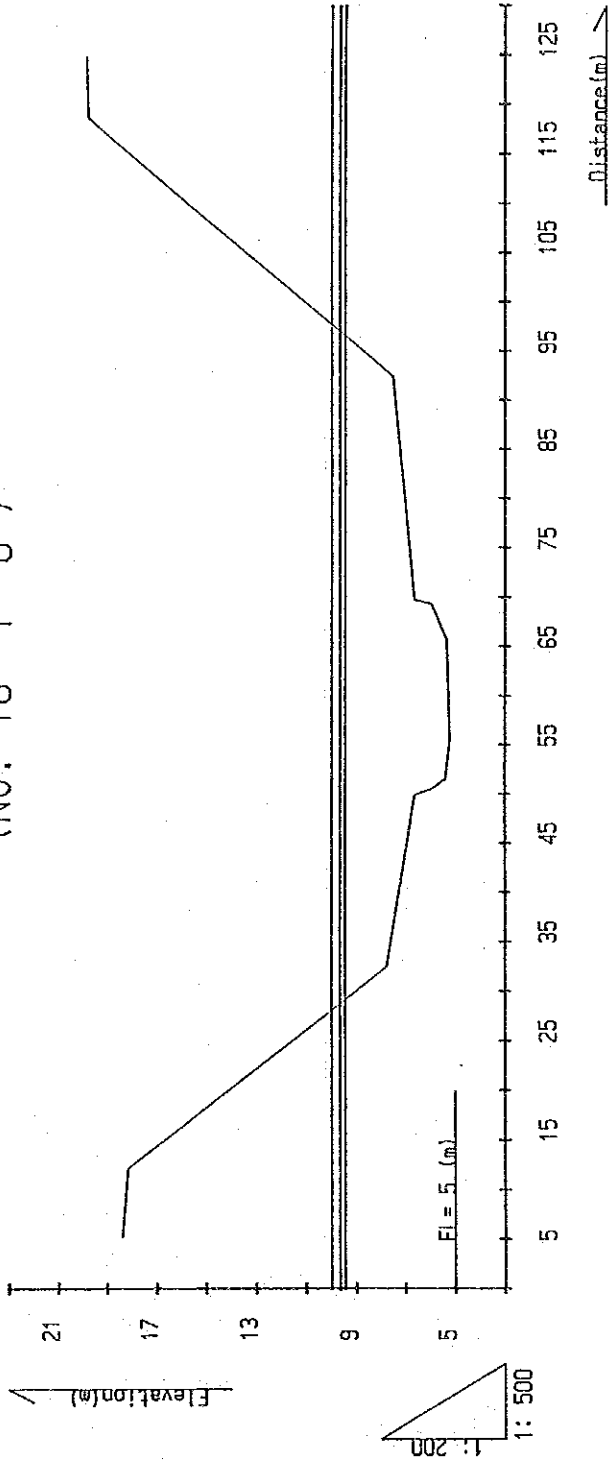
Q = 520 (m³/s)
 Q = 440 (m³/s)
 Q = 390 (m³/s)



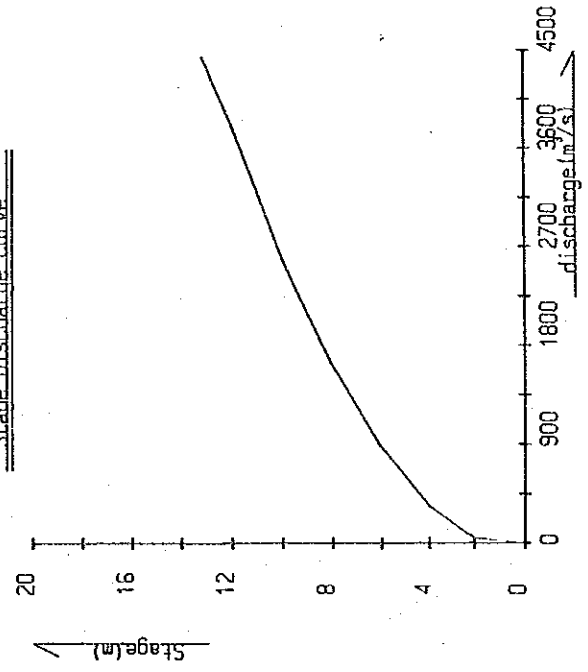
NO.	NO.	0 + 0
Hmin	4.917 (m)	
Hmax	18.717 (m)	
D	.035	
I	1 / 616	
A	1903.0649 (m ²)	
P	196.2689 (m)	
R	9.6962 (m)	
V	5.2345 (m/s)	
Q	9961.5935 (m ³ /s)	



Yangjae-Chong (NO. 10 + 0)



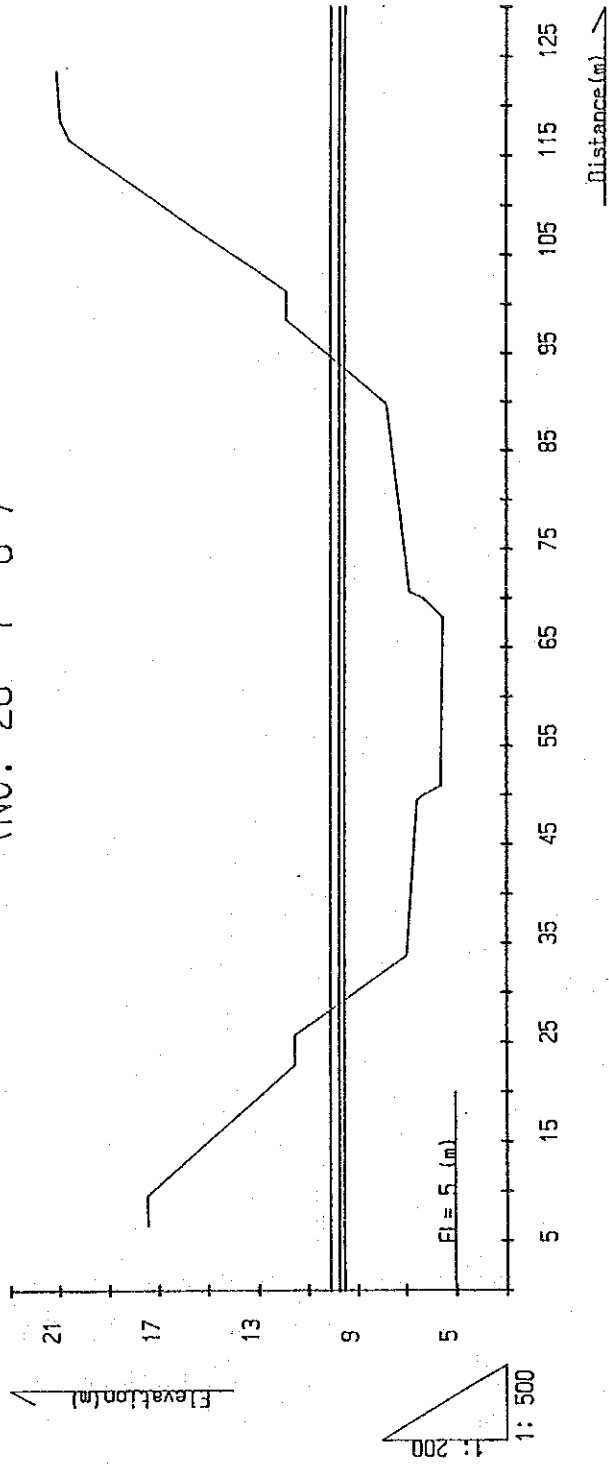
Stage-Discharge Curve



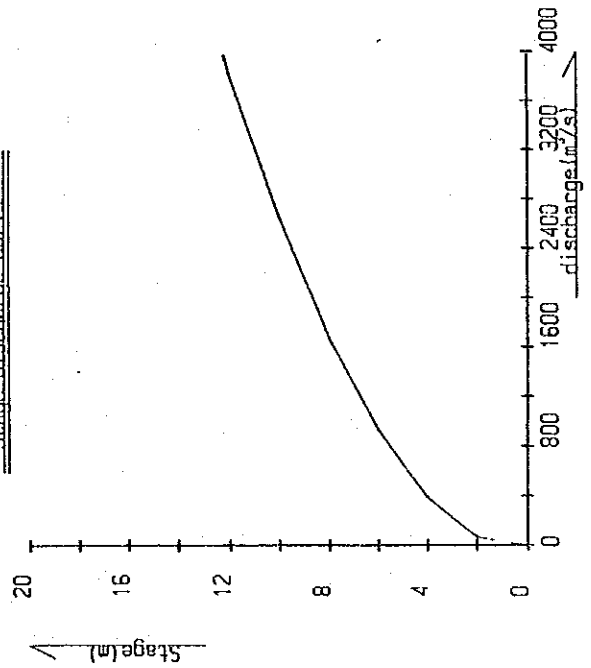
NO.	NO. 10 + 0
Hmin	5.21 (m)
Hmax	18.41 (m)
n	.035
I	1 / 616
A	947.8141 (m ²)
P	116.1715 (m)
R	8.1587 (m)
V	4.6654 (m/s)
Q	4421.9319 (m ³ /s)

Yangjae-Chong (NO. 20 + 0)

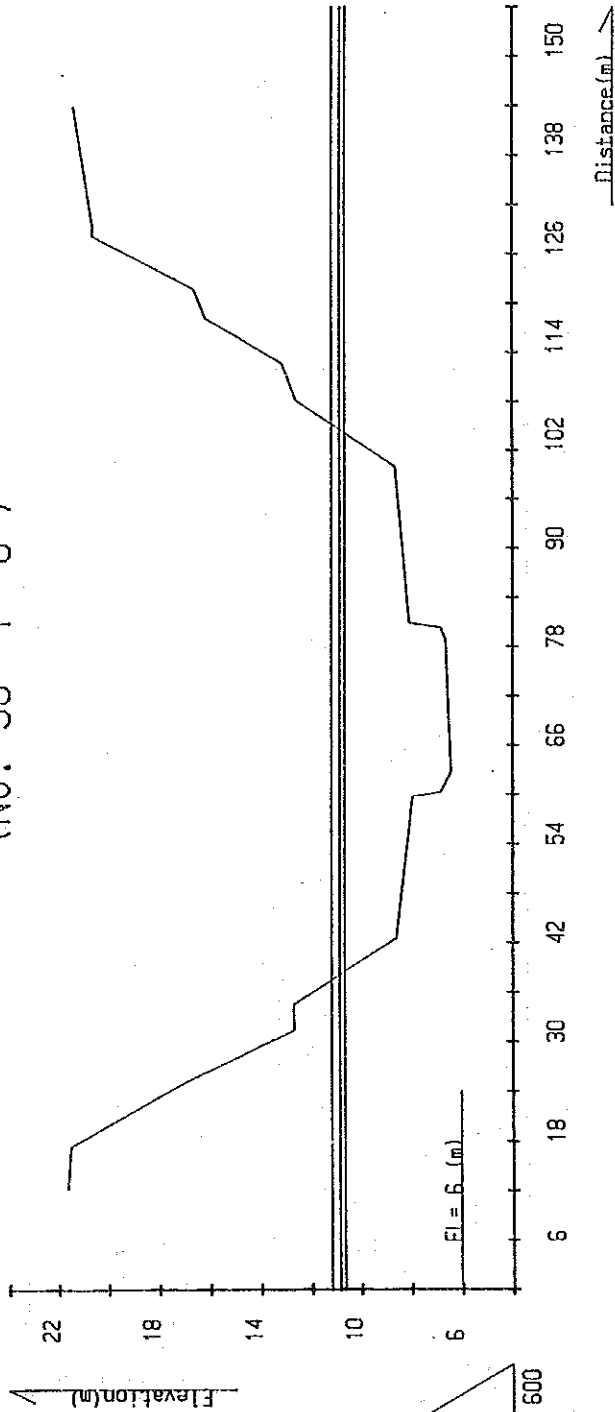
$Q_{in} = 520 \text{ (m}^3\text{/s)}$
 $Q_{out} = 440 \text{ (m}^3\text{/s)}$
 $Q_{loss} = 390 \text{ (m}^3\text{/s)}$



NO.	NO. 20 + 0
Hmin	5.498 (m)
Hmax	17.698 (m)
Q	.035
I	1 / 616
A	869.6417 (m ²)
P	110.3999 (m)
R	7.8772 (m)
V	4.5575 (m/s)
Q	3963.3922 (m ³ /s)

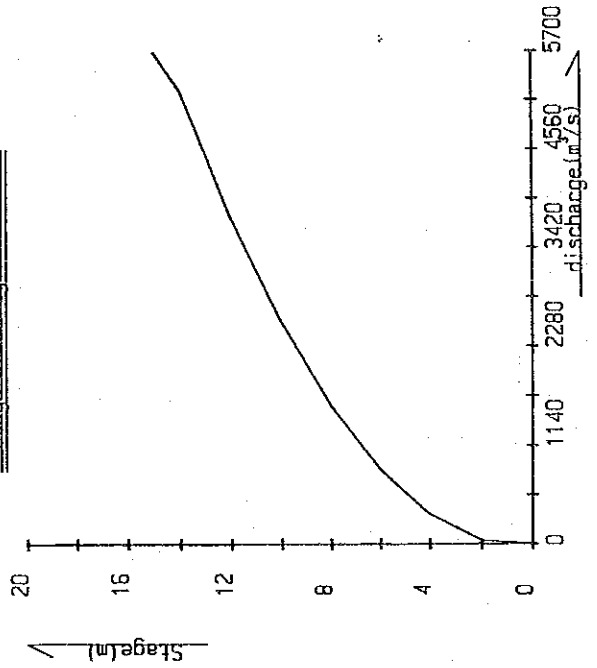


Yangjiae-Chong (NO. 30 + 0)



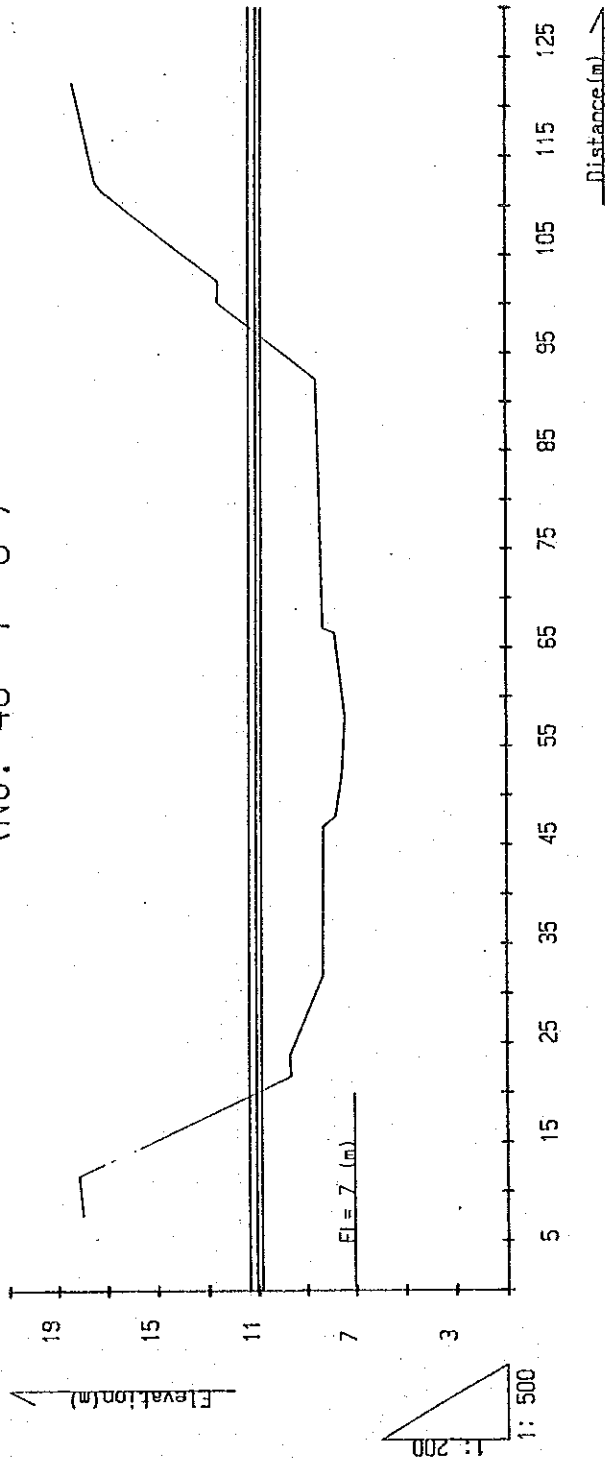
Qm 520 (m³/s)
 Qm 440 (m³/s)
 Qm 390 (m³/s)

Stage-Discharge Curve



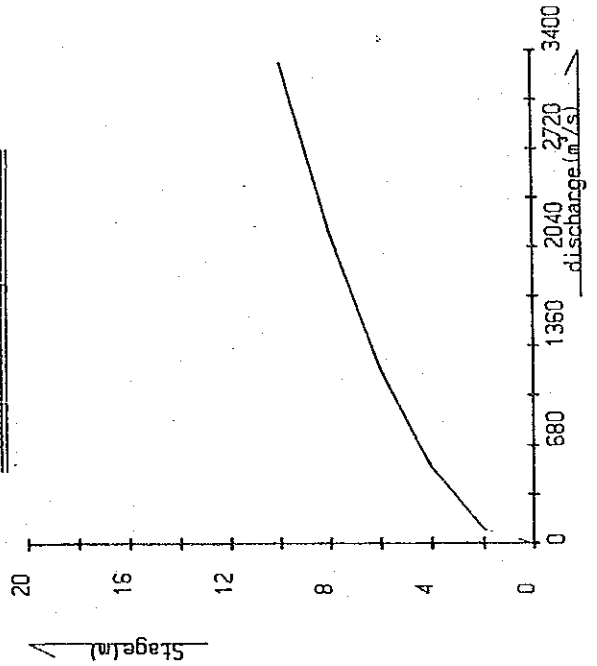
NO.	NO. 30 + 0
Hmin	6.397 (m)
Hmax	21.397 (m)
D	.035
I	1 / 616
A	1164.817 (m ²)
P	133.6877 (m)
R	8.713 (m)
V	4.8744 (m/s)
Q	5677.7842 (m ³ /s)

Yangiae-Chong (NO. 40 + 0)



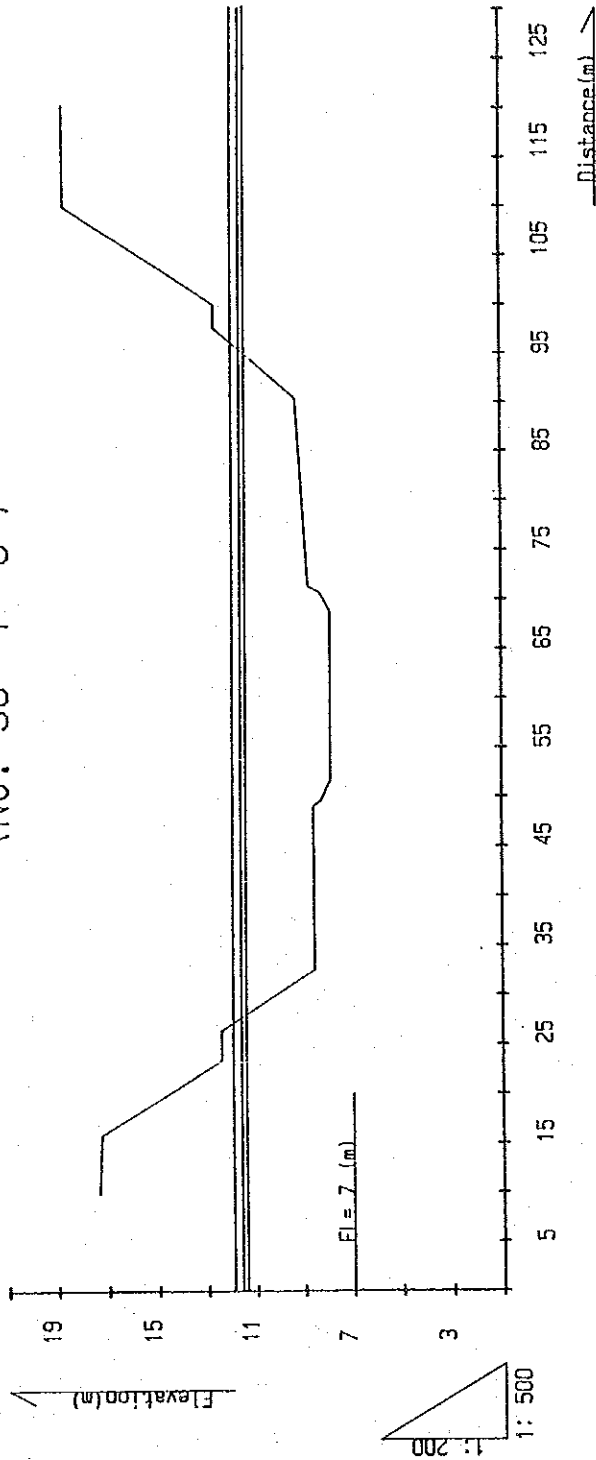
$Q = 520 \text{ (m}^3\text{/s)}$
 $Q = 440 \text{ (m}^3\text{/s)}$
 $Q = 390 \text{ (m}^3\text{/s)}$

Stage-Discharge Curve



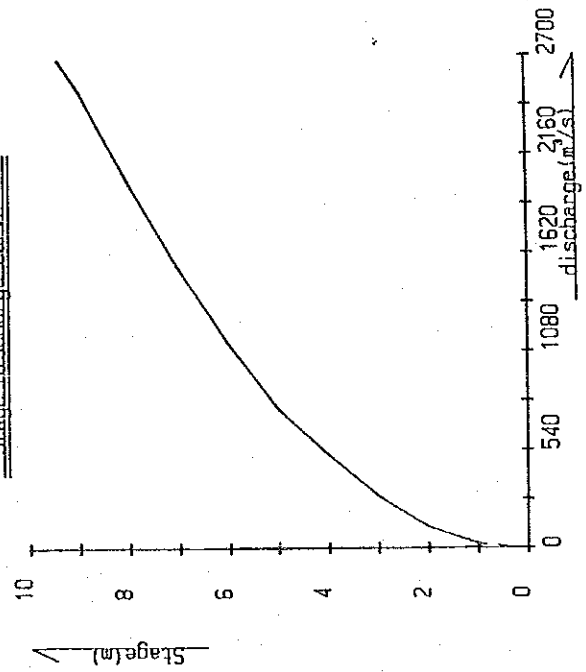
NO.	NO. 40 + 0
H _{min}	7.354 (m)
H _{max}	17.354 (m)
n	.035
I	1 / 616
A	763.8929 (m ²)
P	104.8905 (m)
R	7.2828 (m)
V	4.3252 (m/s)
Q	3303.9896 (m ³ /s)

Yangjiae-Chong (NO. 50 + 0)



$Q_{50} = 520 \text{ (m}^3\text{/s)}$
 $Q_{40} = 440 \text{ (m}^3\text{/s)}$
 $Q_{30} = 390 \text{ (m}^3\text{/s)}$

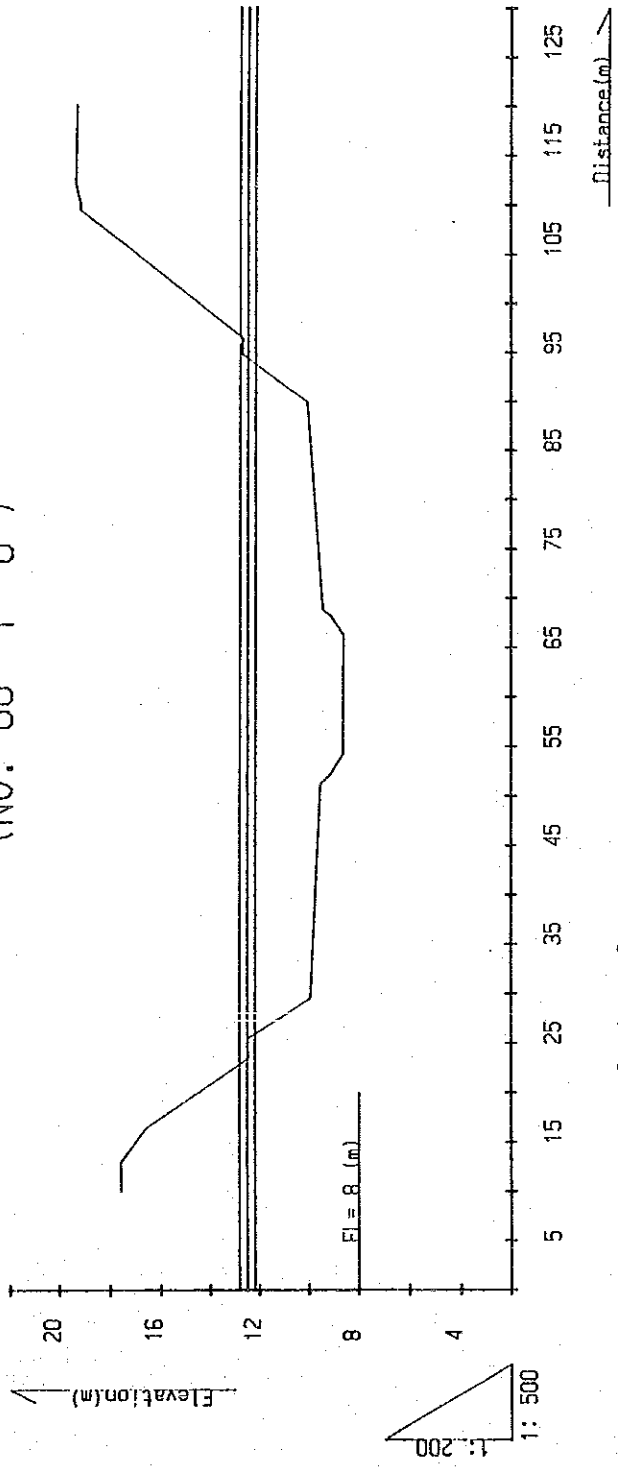
Stage-Discharge Curve



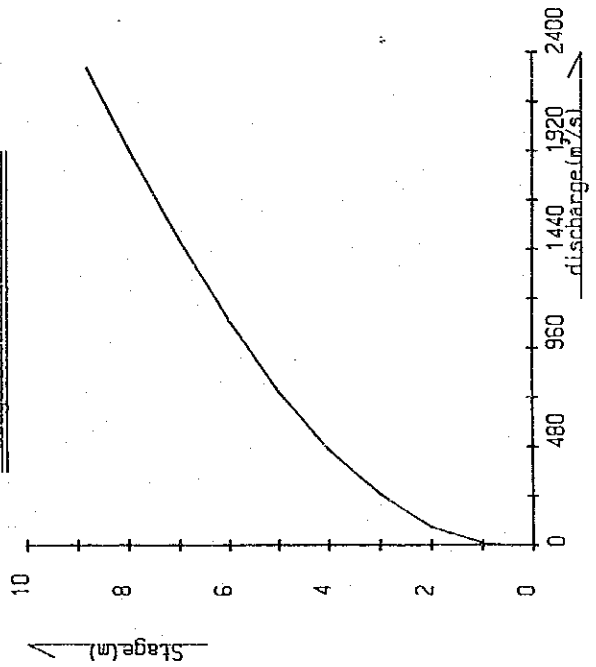
NO.	NO. 50 + 0
Hmin	7.906 (m)
Hmax	17.306 (m)
n	.035
I	1 / 616
A	659.6123 (m ²)
P	99.8973 (m)
R	6.6029 (m)
V	4.0516 (m/s)
Q	2672.485 (m ³ /s)

Yangjae-Chong (NO. 60 + 0)

$Q = 500 \text{ (m}^3\text{/s)}$
 $Q = 430 \text{ (m}^3\text{/s)}$
 $Q = 370 \text{ (m}^3\text{/s)}$

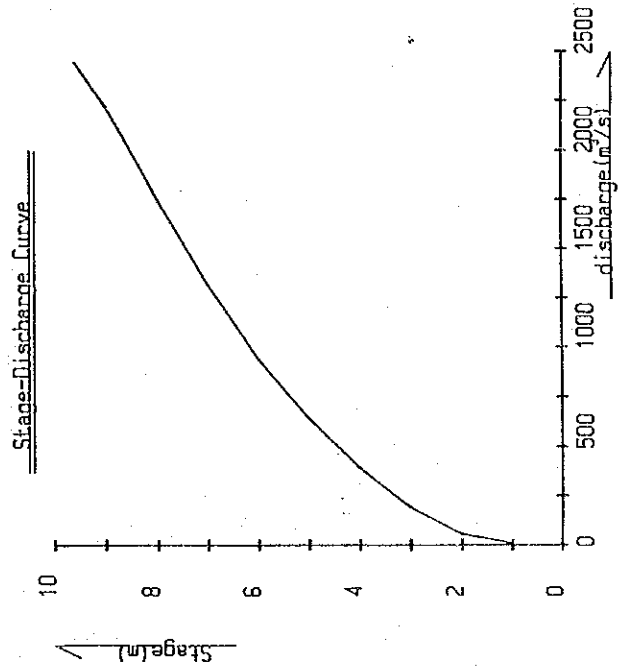
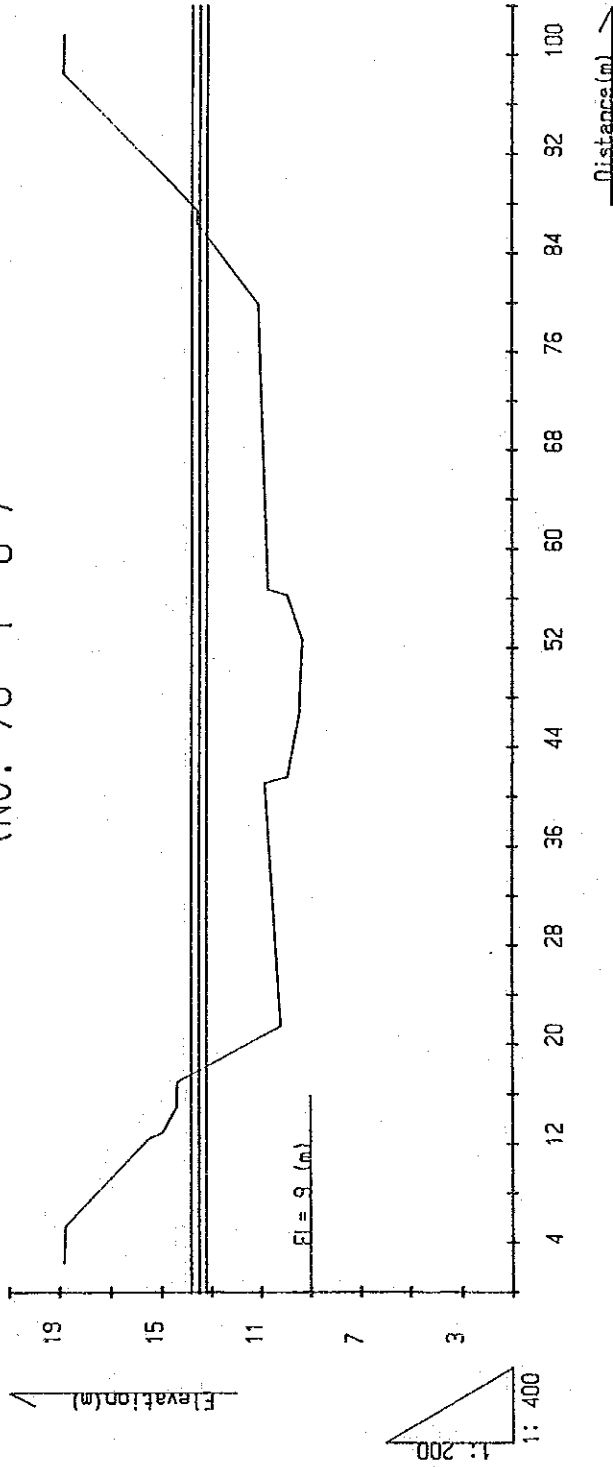


Stage-Discharge Curve



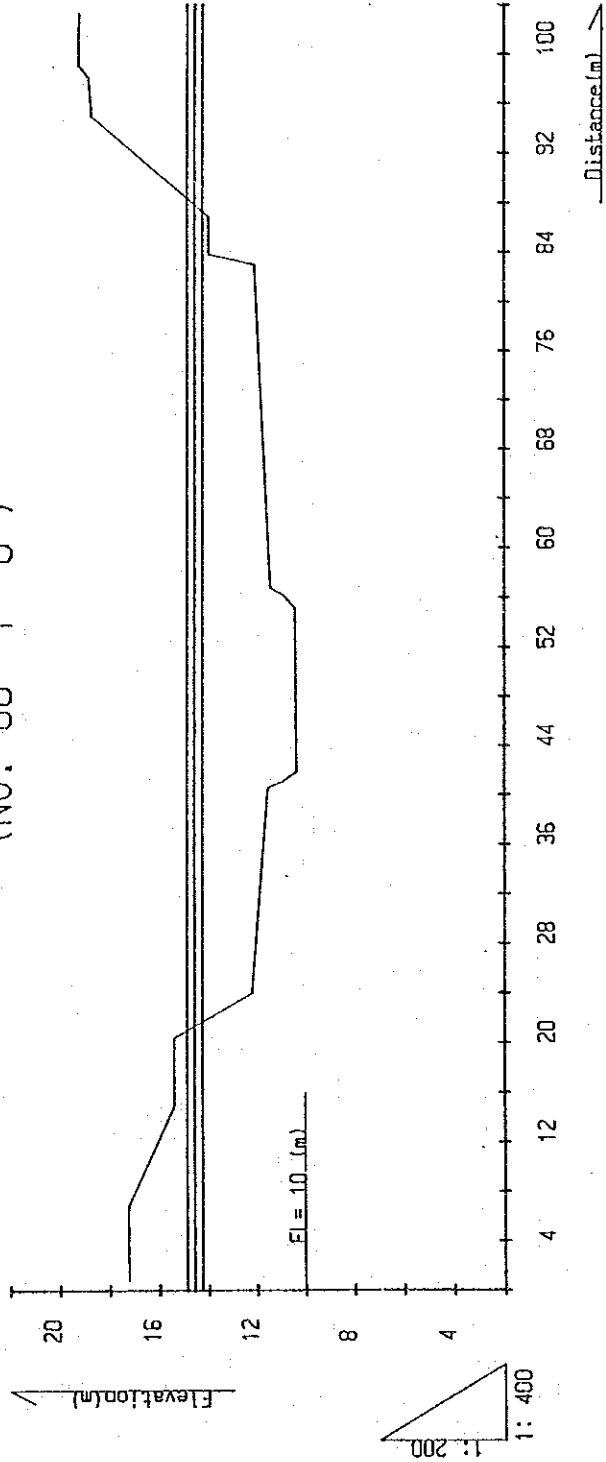
NO.	NO. 60 + 0
Hmin	8.649 (m)
Hmax	17.449 (m)
n	.035
I	17.616
A	597.4829 (m ²)
P	96.4156 (m)
R	6.197 (m)
V	3.8839 (m/s)
Q	2320.5636 (m ³ /s)

Yangiae-Chong (NO. 70 + 0)

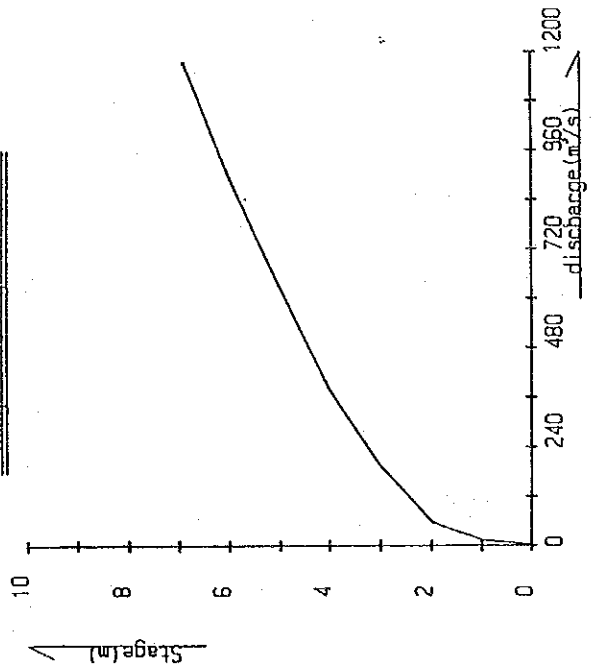


NO.	NO. 70 + 0
Hmin	9.34 (m)
Hmax	18.94 (m)
n	.035
I	1 / 616
A	635.3309 (m ²)
P	104.2611 (m)
R	6.0937 (m)
V	3.8406 (m/s)
Q	2440.0517 (m ³ /s)

Yangjiae-Chong (NO. 80 + 0)

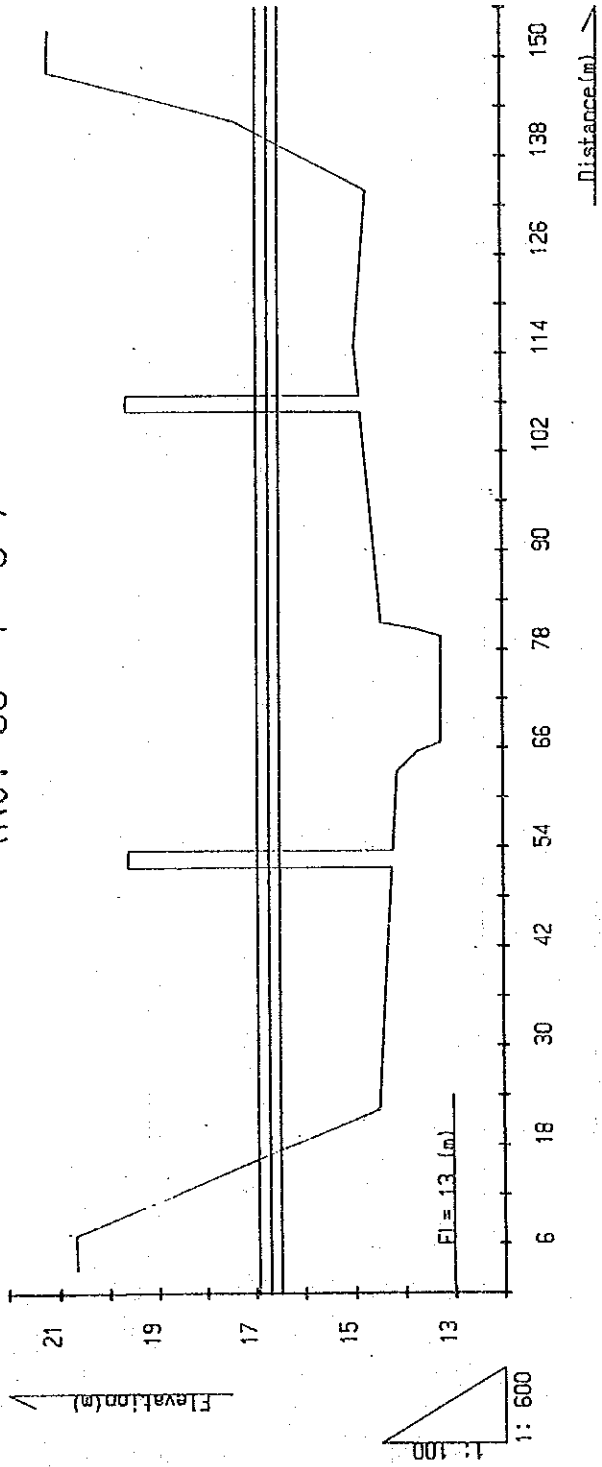


Stage-Discharge Curve



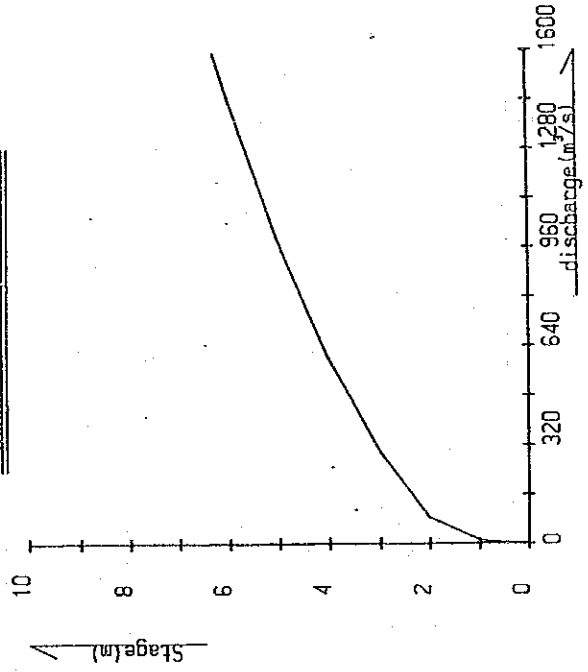
NO.	NO. 80 + 0
Hmin	10.363 (m)
Hmax	17.263 (m)
n	.035
T	1 / 616
A	396.1361 (m ²)
P	95.9902 (m)
R	4.1268 (m)
V	2.9618 (m/s)
Q	1173.276 (m ³ /s)

Yangjiae-Chong (NO. 90 + 0)



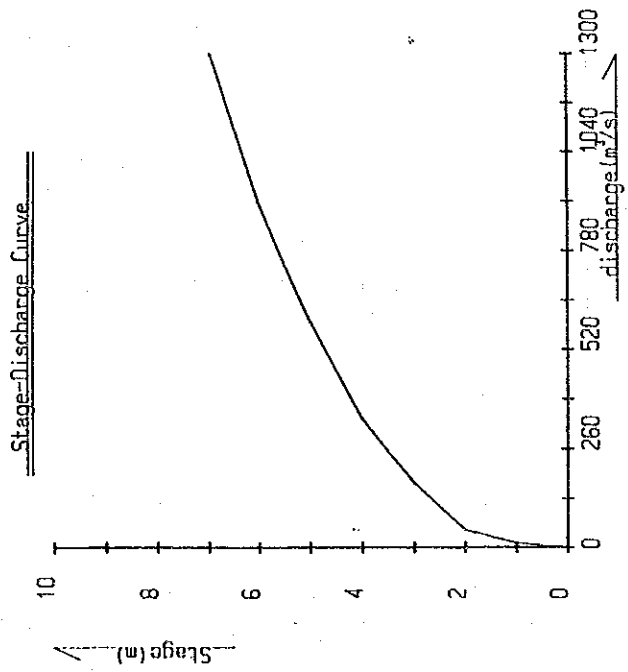
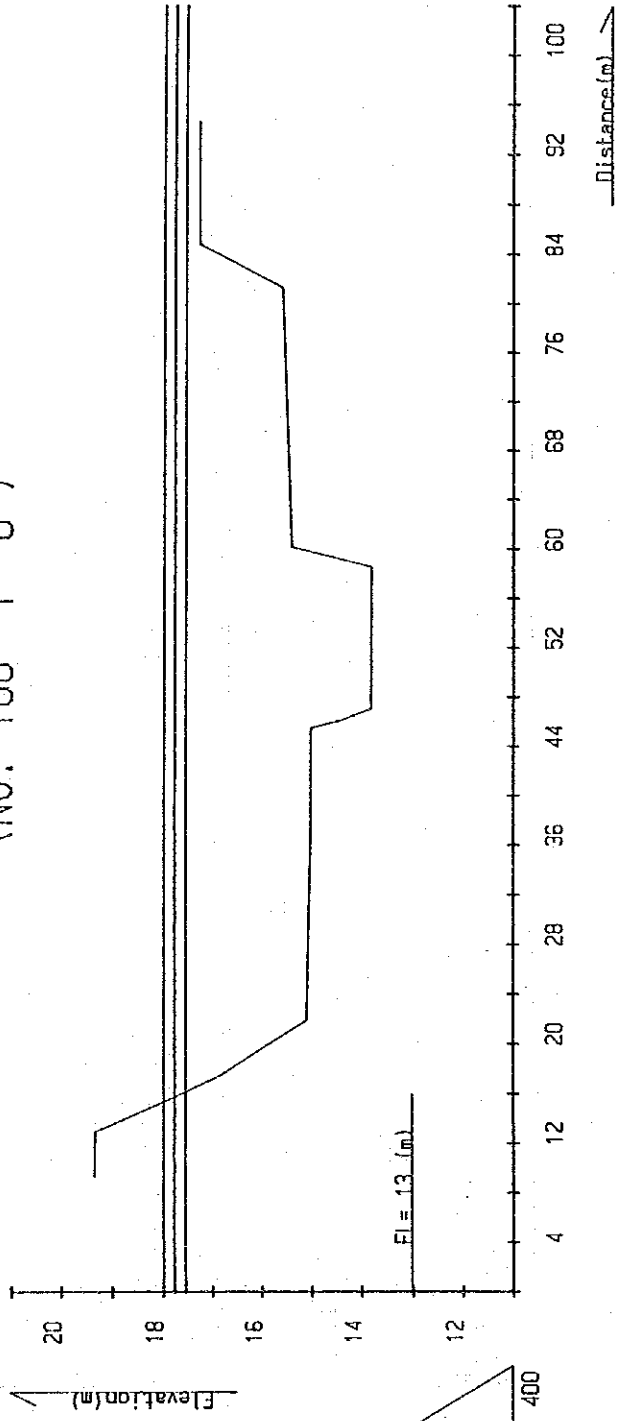
Qm 500 (m³/s)
 Qm 430 (m³/s)
 Qm 370 (m³/s)

Stage-Discharge Curve



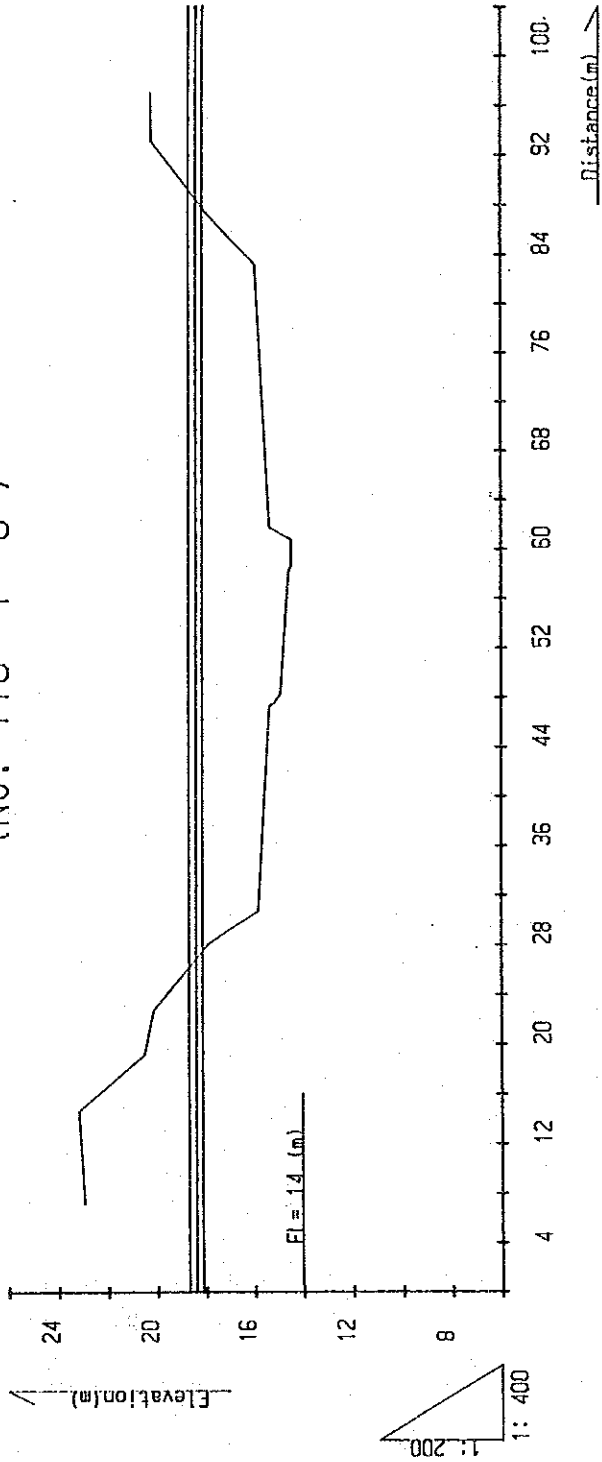
NO.	NO. 90 + 0
Hmin	13.209 (m)
Hmax	19.509 (m)
n	.035
I	1 / 794
A	618.7485 (m ²)
P	154.1099 (m)
R	4.015 (m)
V	2.5614 (m/s)
Q	1584.8623 (m ³ /s)

Yangjae-Chong (NO: 100 + 0)

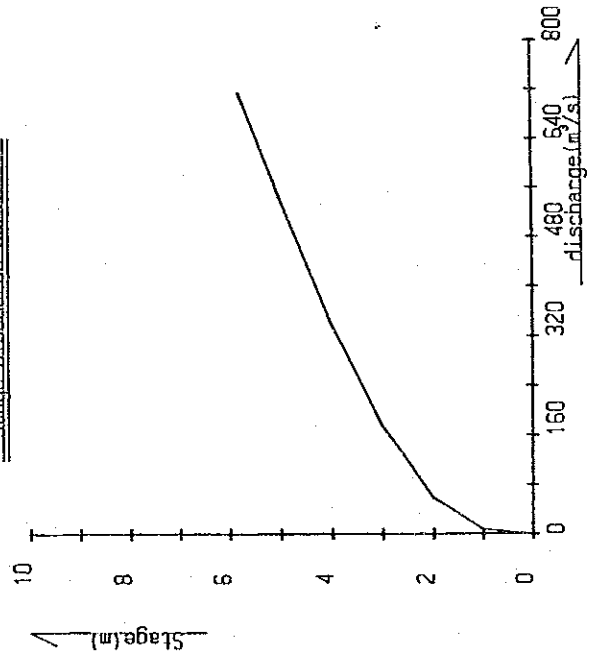


NO.	NO. 100 + 0
Hmin	13.8 (m)
Hmax	20.8 (m)
n	.035
L	1 / 794
A	437.8439 (m ²)
P	87.7274 (m)
R	4.991 (m)
V	2.9613 (m/s)
Q	1296.5871 (m ³ /s)

Yangjiae-Chong (NO. 110 + 0)

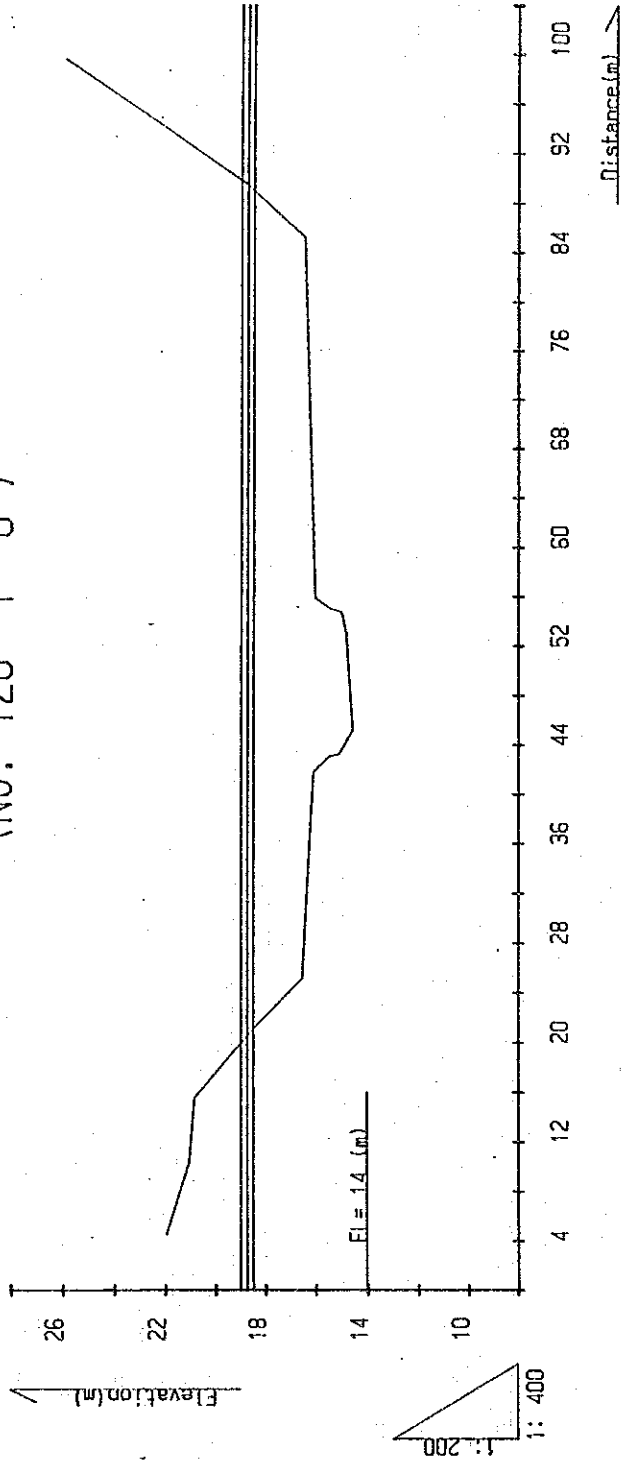


Stage-Discharge Curve

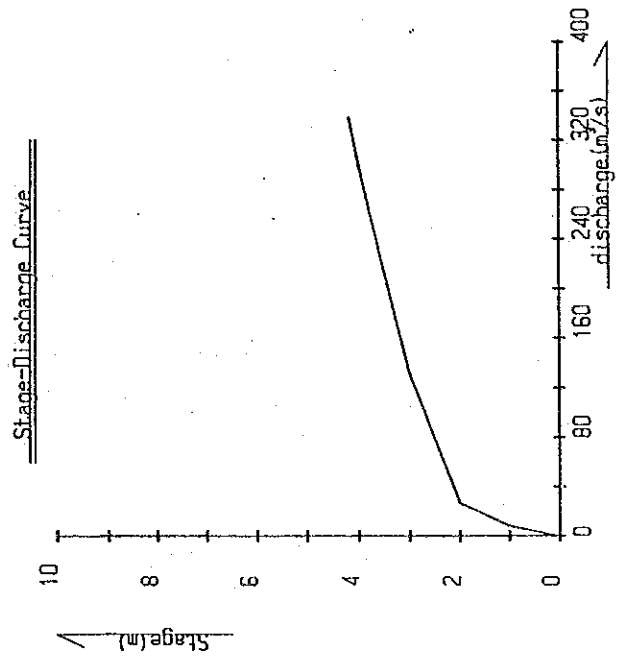


NO.	NO. 110 + 0
Hmin	14.434 (m)
Hmax	20.234 (m)
n	.035
I	17.794
A	291.576 (m²)
P	77.8337 (m)
R	3.7461 (m)
V	2.4457 (m/s)
Q	713.1075 (m³/s)

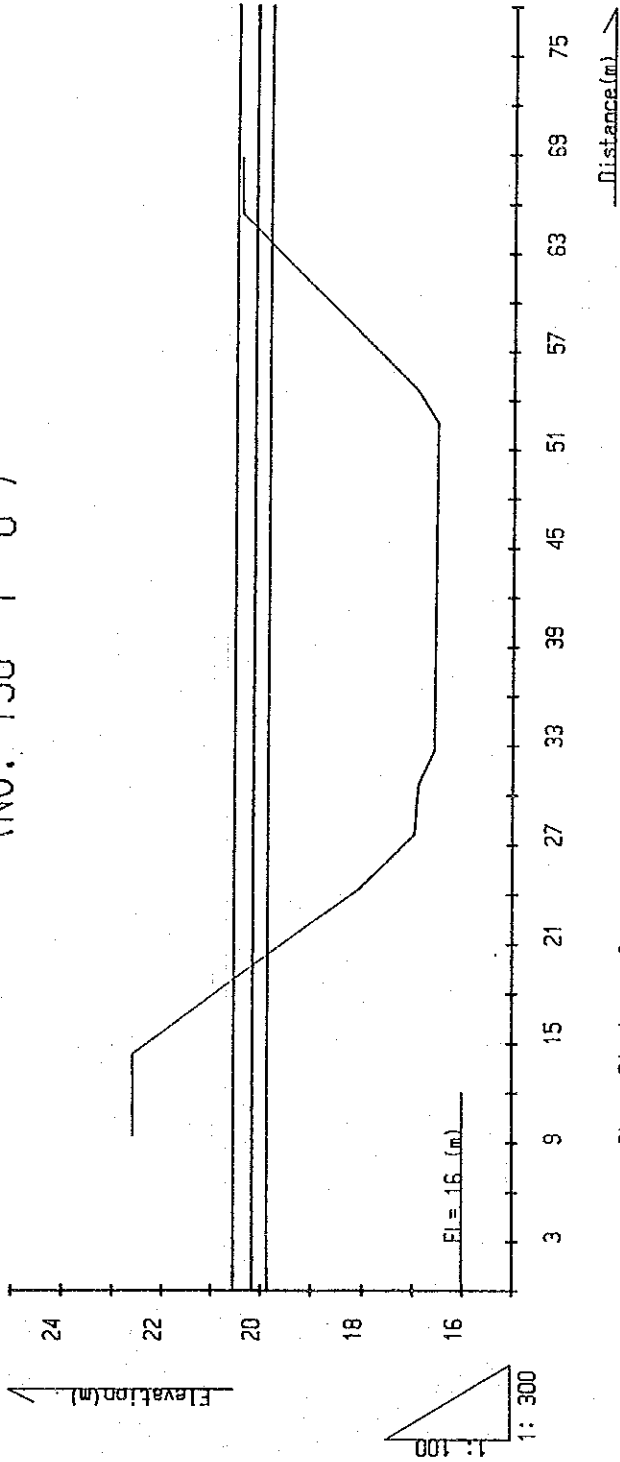
Yangjae-Chong (NO. 120 + 0)



NO.	NO. 120 + 0
Hmin	14.562 (m)
Hmax	18.762 (m)
n	.035
L	1 / 794
A	179.3963 (m ³)
P	71.0517 (m)
R	2.5249 (m)
V	1.8801 (m/s)
Q	337.2829 (m ³ /s)

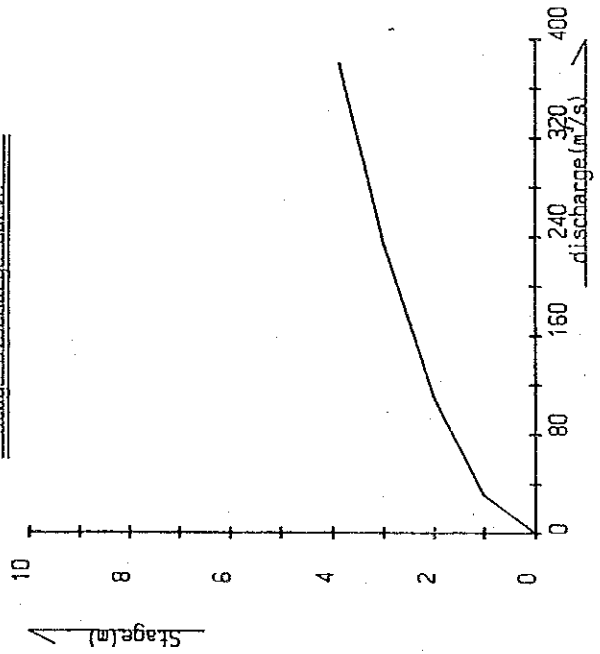


Yangjiae-Chong (NO. 130 + 0)



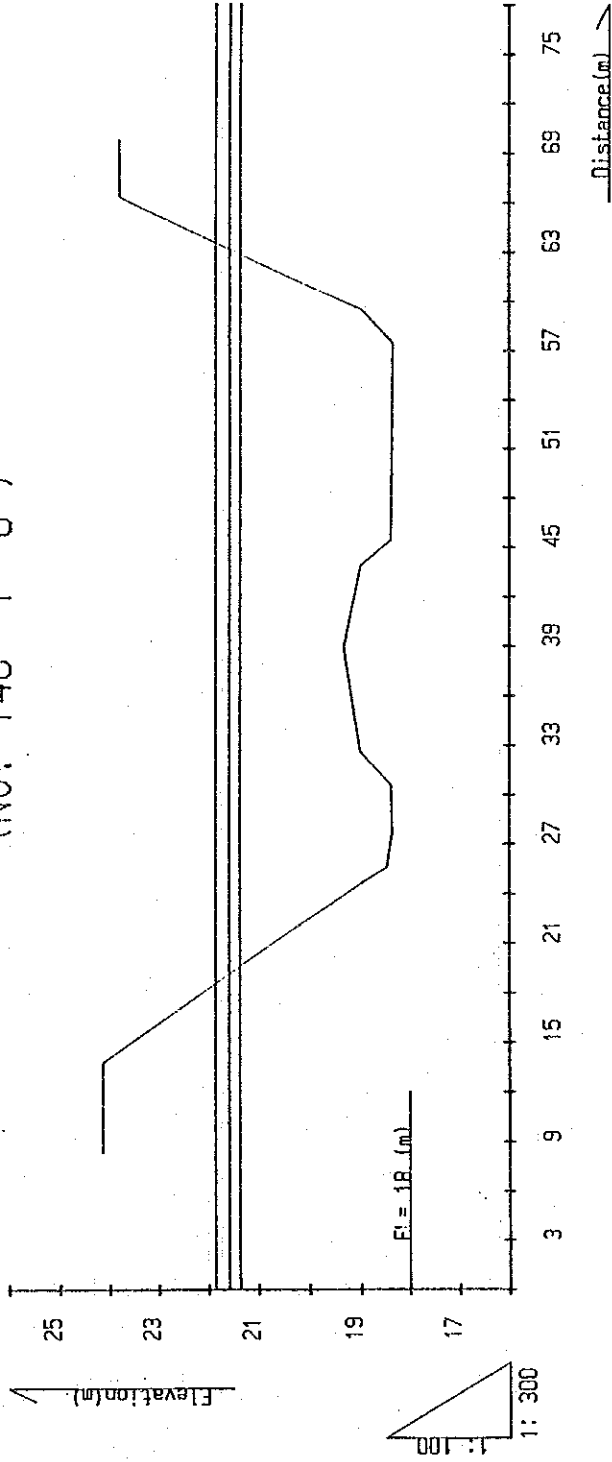
Q₁ 380 (m³/s)
Q₂ 330 (m³/s)
Q₃ 280 (m³/s)

Stage-Discharge Curve

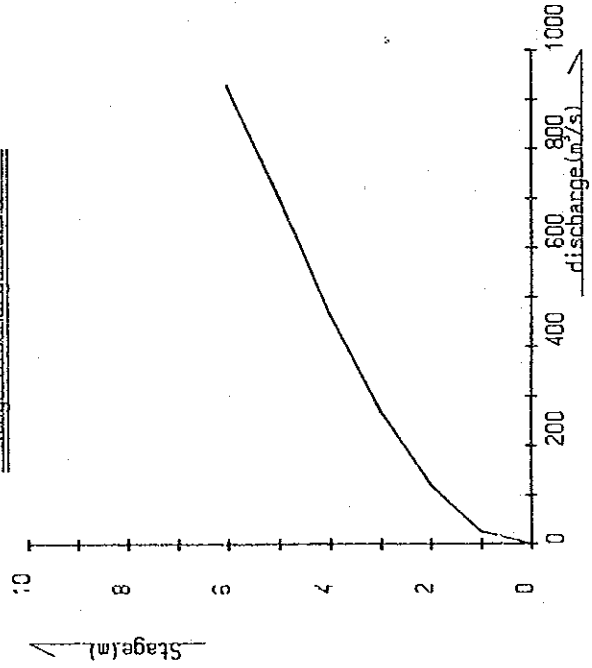


NO.	NO. 130 + 0
H _{min}	16.531 (m)
H _{max}	20.431 (m)
n	.035
I	1 / 442
A	137.4153 (m ²)
P	47.5671 (m)
R	2.8889 (m)
V	2.7566 (m/s)
Q	378.799 (m ³ /s)

Yangjiae-Chong (NO. 140 + 0)

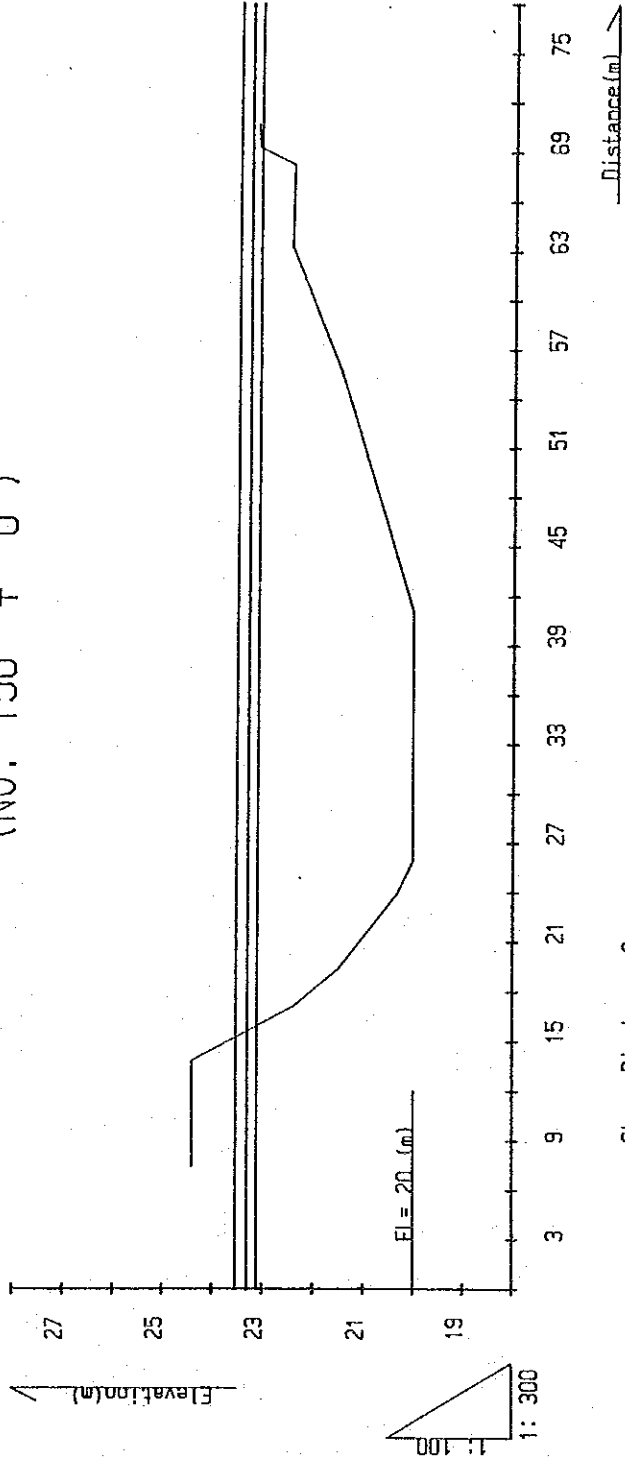


Stage-Discharge Curve



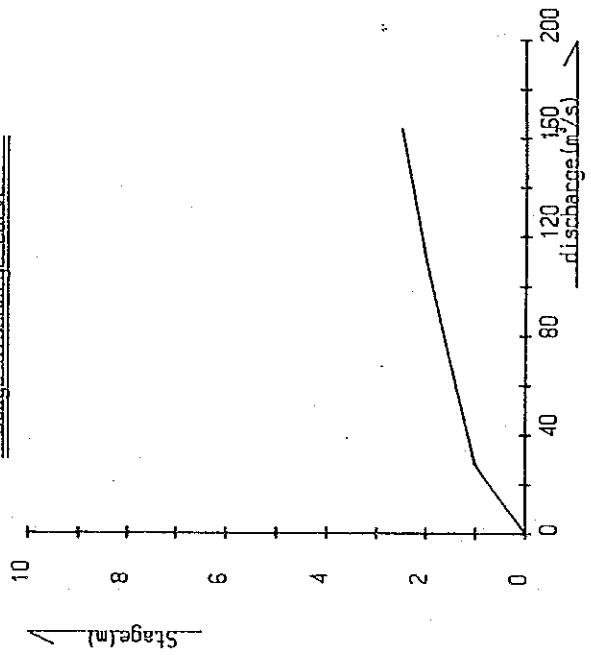
NO.	NO. 140 + 0
Hmin	18.349 (m)
Hmax	24.349 (m)
n	.035
I	1 / 359
A	250.0374 (m ²)
P	64.631 (m)
R	3.8687 (m)
V	3.7162 (m/s)
Q	929.189 (m ³ /s)

Yangjiae-Chong (NO. 150 + 0)



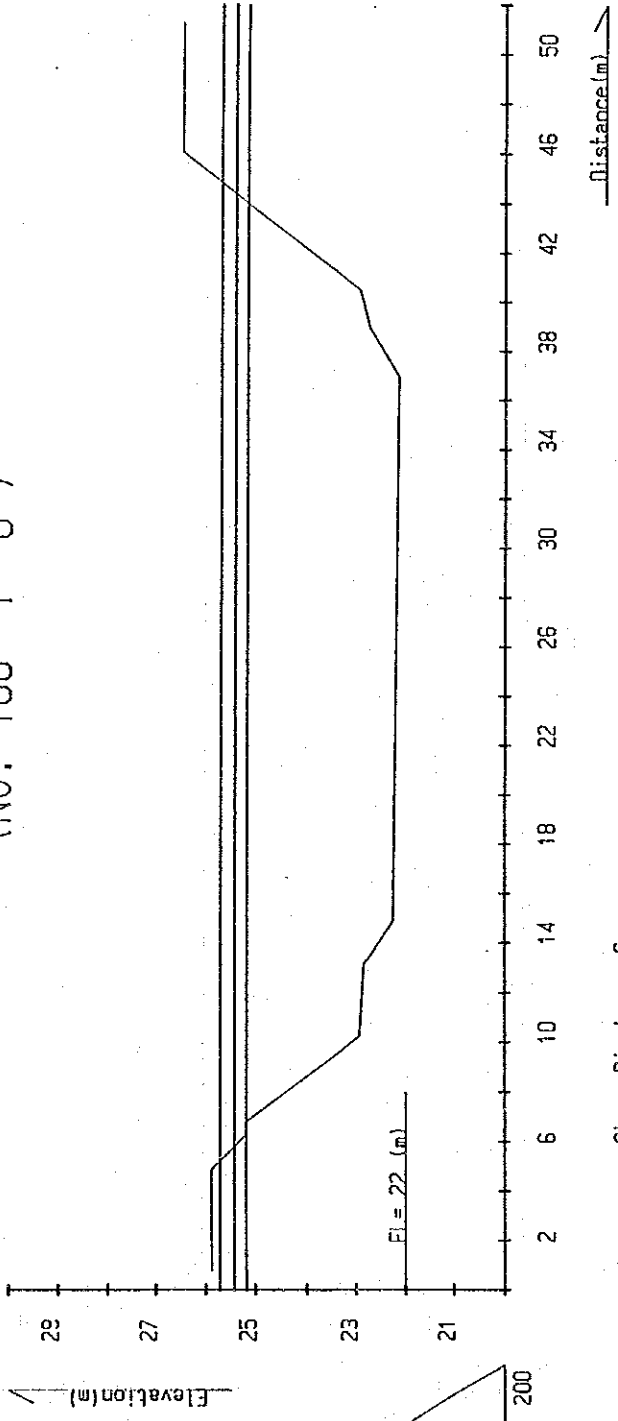
Qm 350 (m³/s)
 Qm 310 (m³/s)
 Qm 270 (m³/s)

Stage-Discharge Curve



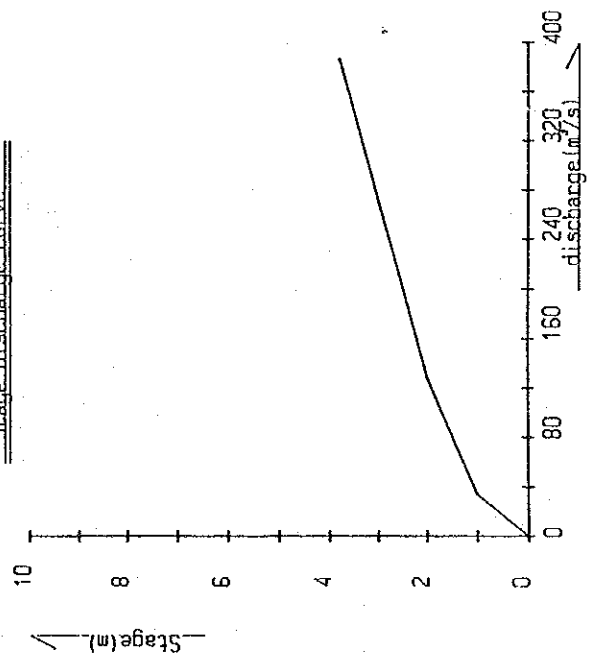
NO	NO. 150 + 0
Hmin	20.029 (m)
Hmax	22.529 (m)
n	0.35
I	1/359
A	80.7512 (m ²)
P	51.9312 (m)
R	1.555 (m)
V	2.024 (m/s)
Q	153.4404 (m ³ /s)

Yangjiae-Chong (NO: 160 + 0)



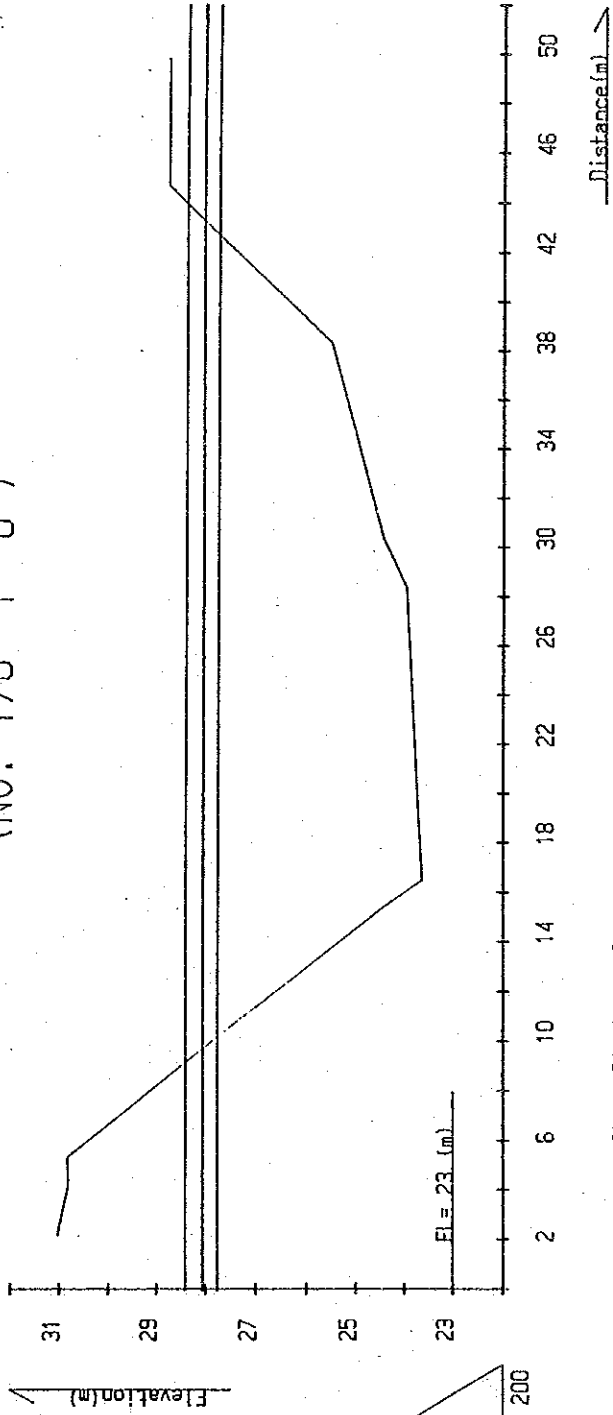
Q_{in} 360 (m³/s)
 Q_{out} 310 (m³/s)
 Q_{loss} 270 (m³/s)

Stage-Discharge Curve

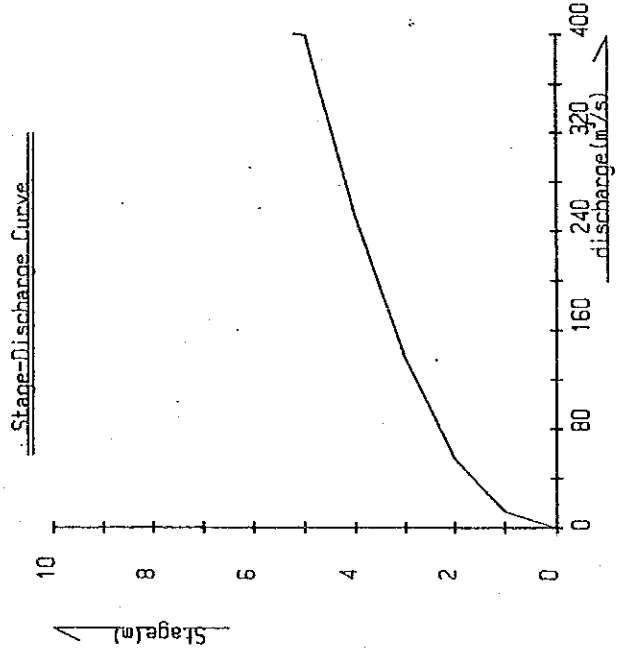


NO.	NO 160 + 0
Hmin	22.173 (m)
Hmax	25.973 (m)
n	.035
I	1 / 315
A	124.2924 (m ²)
P	46.3678 (m)
R	2.6806 (m)
V	3.1065 (m/s)
Q	386.1144 (m ³ /s)

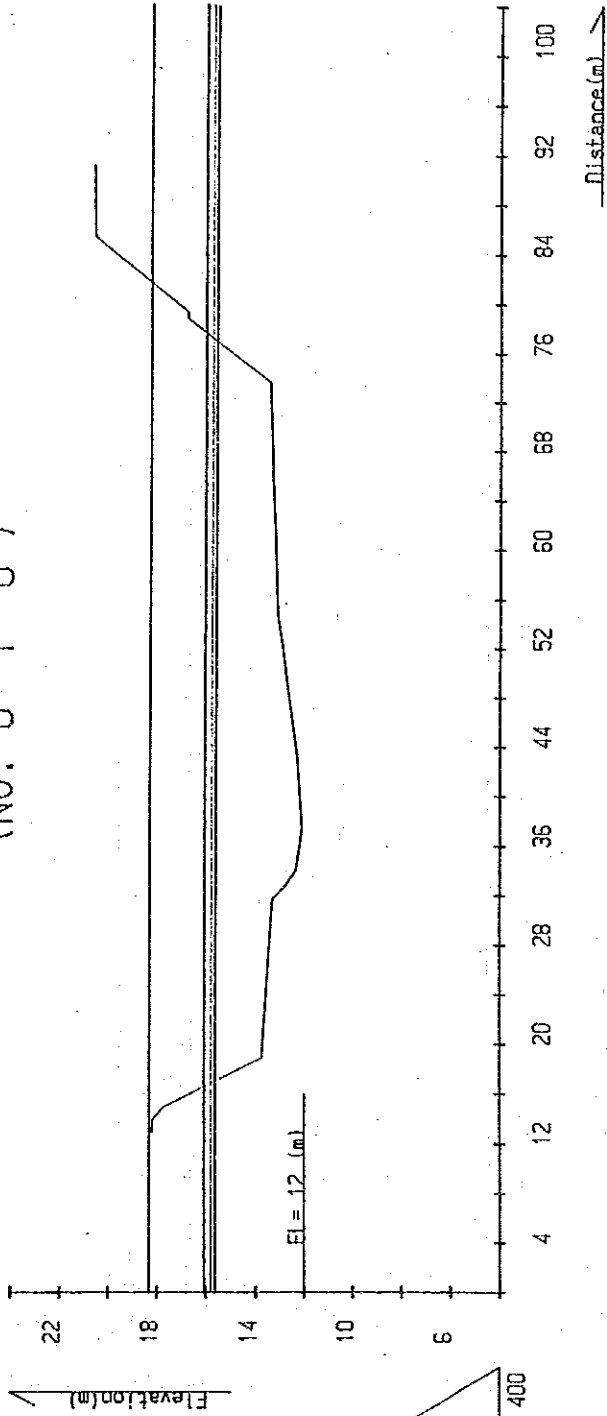
Yangjiae-Chong (NO. 170 + 0)



NO.	NO. 170 + 0
Hmin	23.64 (m)
Hmax	28.84 (m)
n	.035
I	1 / 379
A	131.0424 (m ²)
P	43.7687 (m)
R	2.994 (m)
V	3.0487 (m/s)
Q	399.509 (m ³ /s)



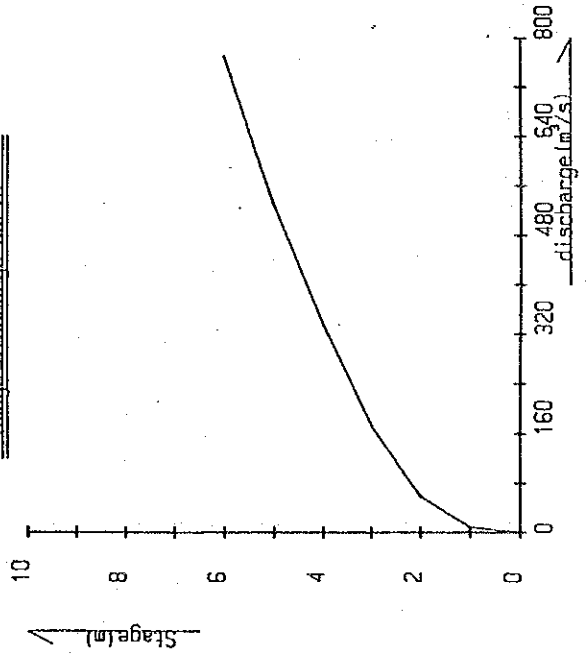
Ui-Chong (NO. 0 + 0)



$Q_{in} = 245 \text{ (m}^3\text{/s)}$
 $Q_{out} = 325 \text{ (m}^3\text{/s)}$
 $Q_{in} = 275 \text{ (m}^3\text{/s)}$
 $Q_{out} = 245 \text{ (m}^3\text{/s)}$

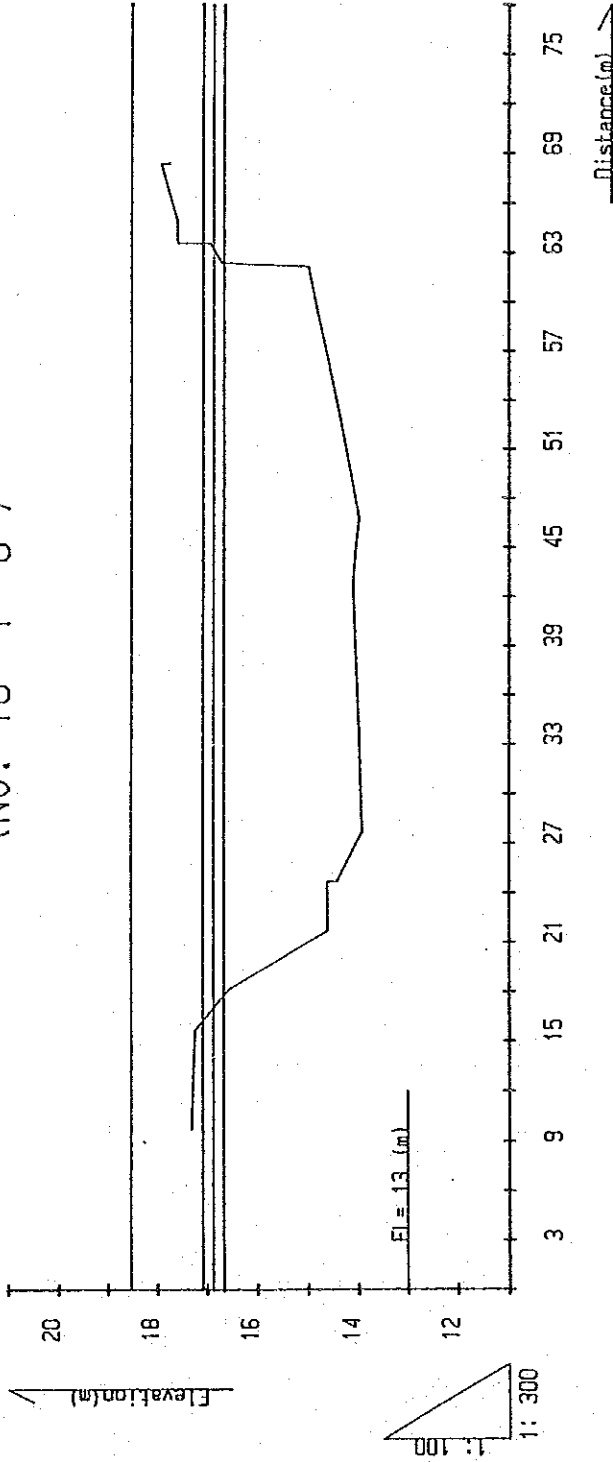
1: 400
1: 200

Stage-Discharge Curve



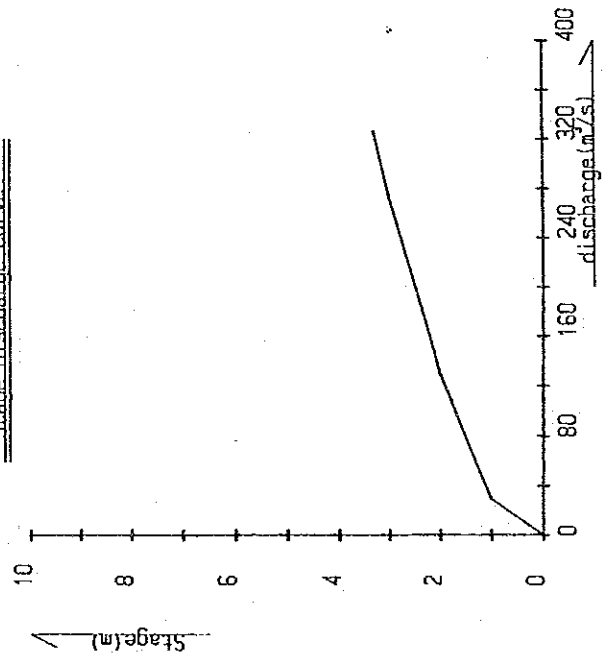
NO.	NO. 0 + 0
Hmin	12.12 (m)
Hmax	18.12 (m)
n	.03
I	1 / 1217
A	303.9195 (m ²)
P	70.6086 (m)
R	4.3043 (m)
V	2.5283 (m/s)
Q	768.3997 (m ³ /s)

Ui-Chong (NO. 10 + 0)



Q_m 320 (m³/s)
 Q_m 300 (m³/s)
 Q_m 265 (m³/s)
 Q_m 230 (m³/s)

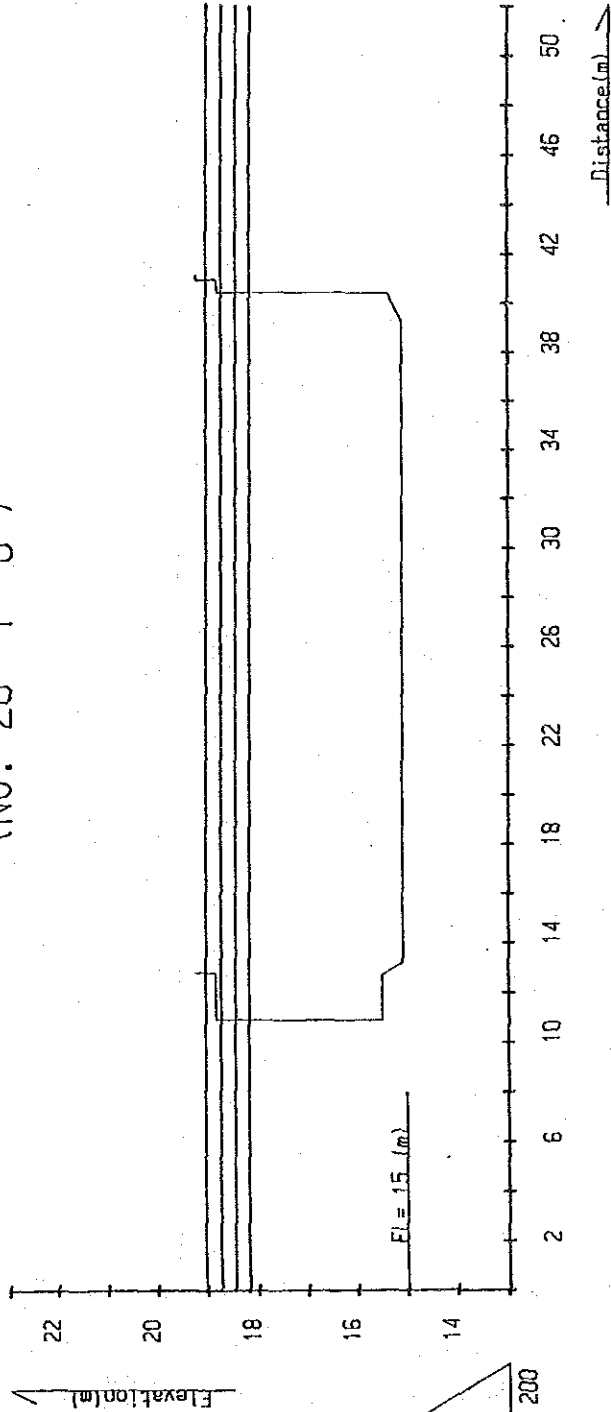
Stage-Discharge Curve



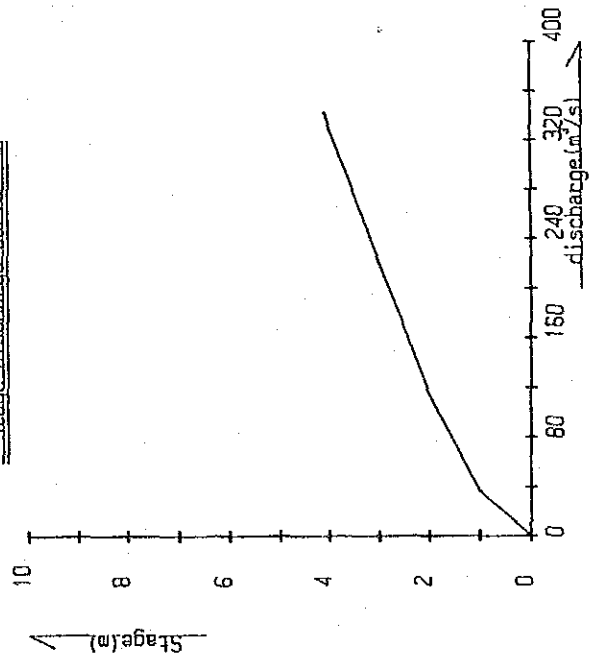
NO.	NO.	10 + 0
Hmin	13.927	(m)
Hmax	17.227	(m)
n	.03	
J	1 / 586	
A	127.7007	(m ²)
P	50.5138	(m)
R	2.528	(m)
V	2.5553	(m/s)
Q	326.3137	(m ³ /s)

Ui-Chong (NO. 20 + 0)

$Q_c = 320 \text{ (m}^3/\text{s)}$
 $Q_p = 300 \text{ (m}^3/\text{s)}$
 $Q_s = 255 \text{ (m}^3/\text{s)}$
 $Q_r = 230 \text{ (m}^3/\text{s)}$

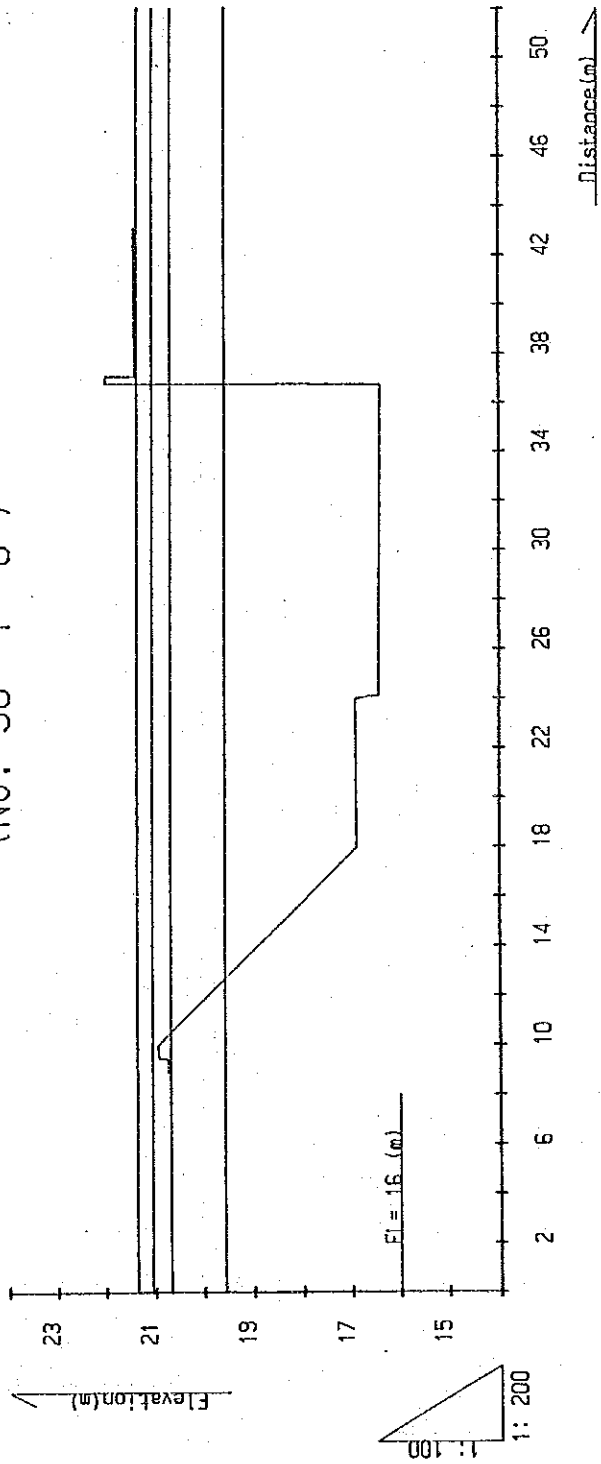


Stage-Discharge Curve

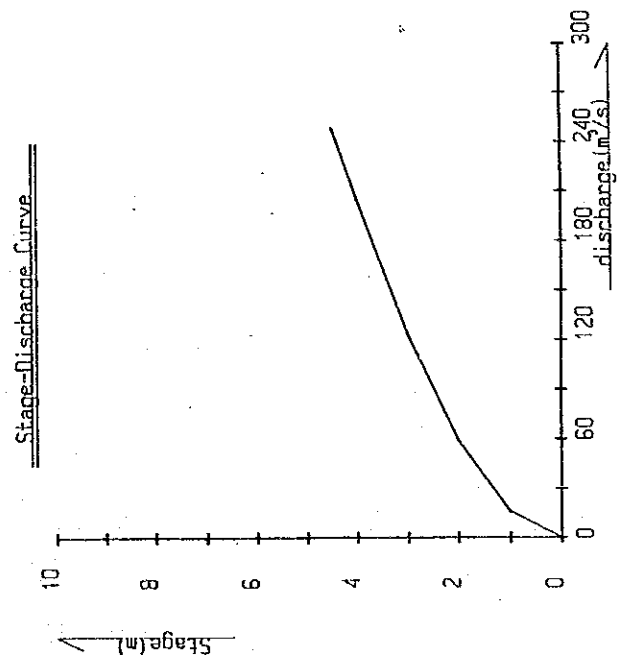


NO.	NO. 20 + 0
Hmin	15.09 (m)
Hmax	19.19 (m)
n	.03
L	1 / 586
A	118.9858 (m ²)
P	39.4633 (m)
R	3.0151 (m)
V	2.8739 (m/s)
Q	341.9532 (m ³ /s)

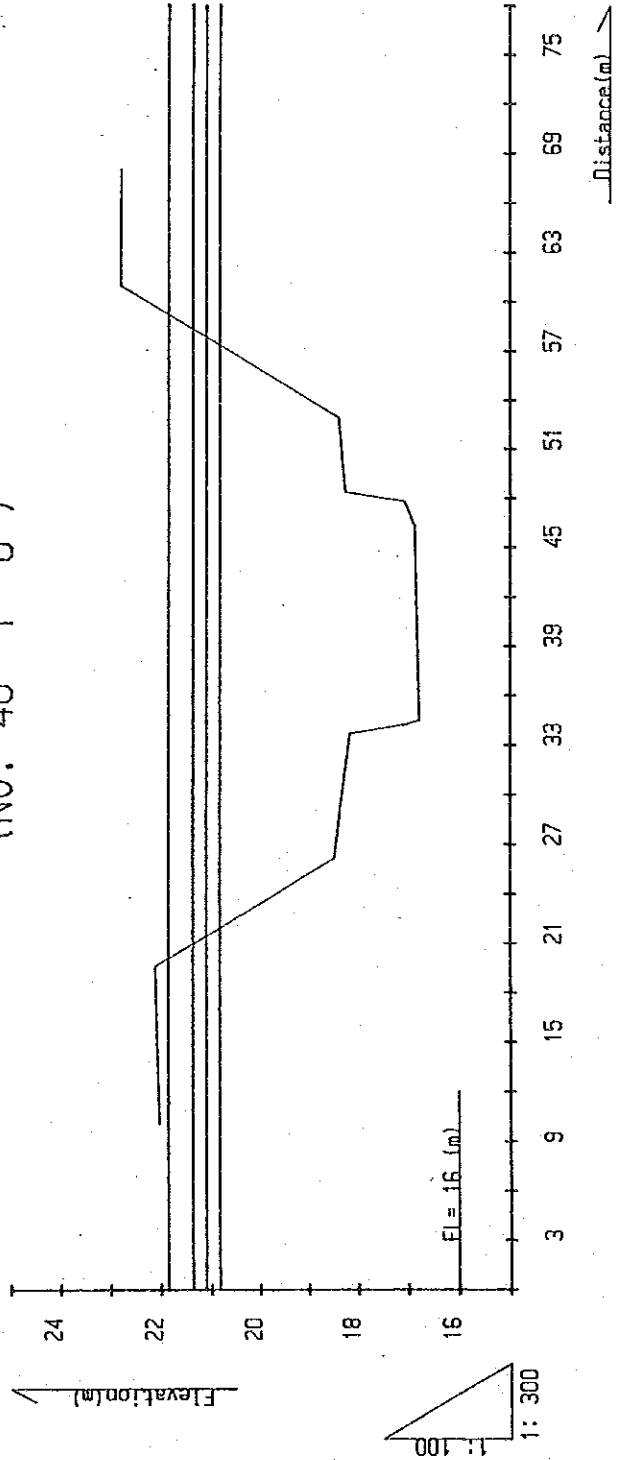
Ui-Chong (NO. 30 + 0)



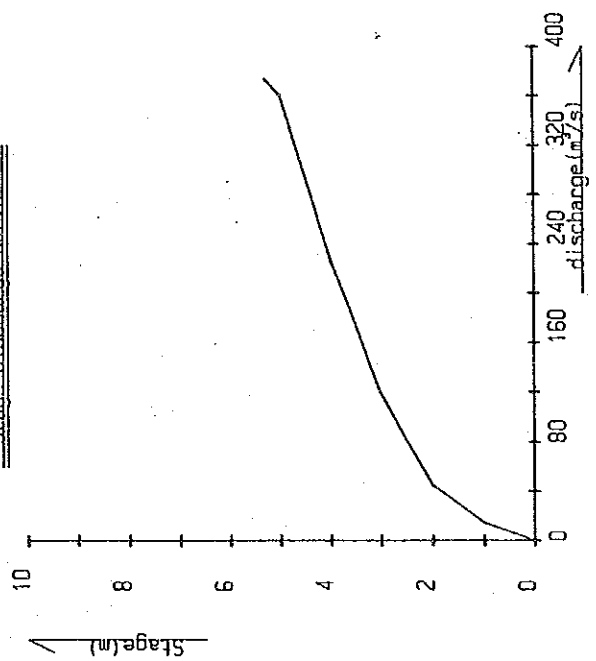
NO.	NO. 30 + 0
Hmin	16.387 (m)
Hmax	20.887 (m)
n	.03
I	1 / 706
A	96.9422 (m ²)
P	33.2591 (m)
R	2.9148 (m)
V	2.5599 (m/s)
Q	248.1623 (m ³ /s)



Ui-Chong (NO. 40 + 0)

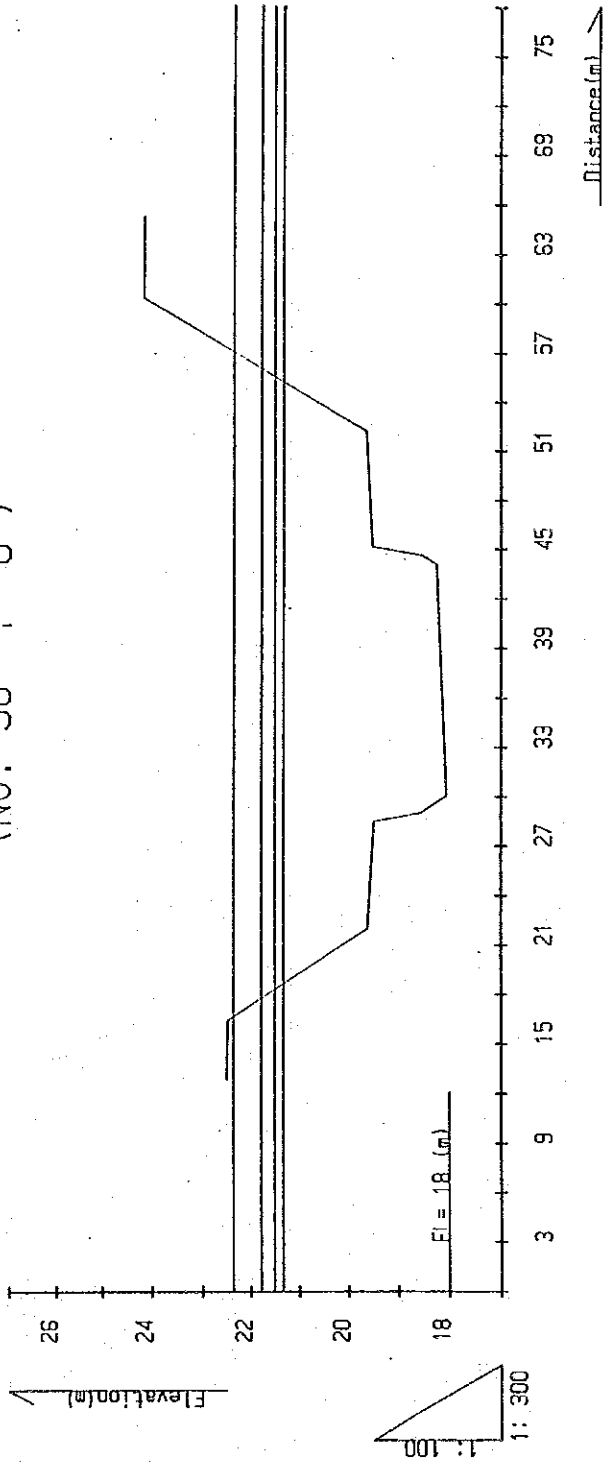


Stage-Discharge Curve



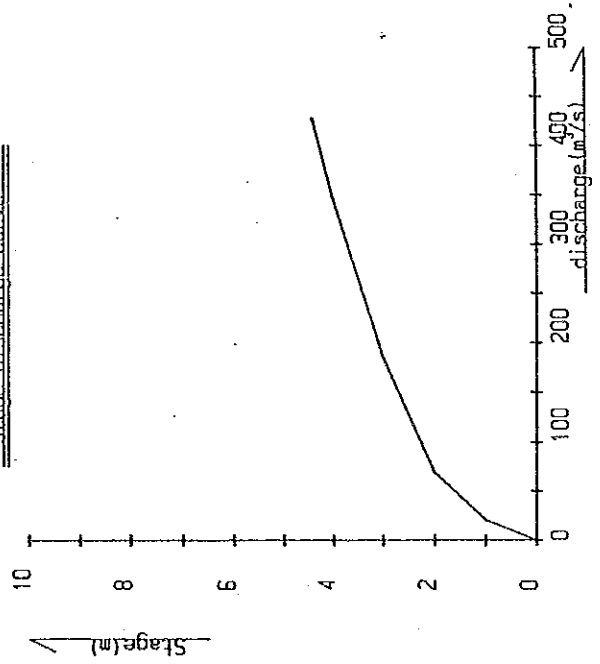
NO.	NO. 40 + 0
Hmin	16.79 (m)
Hmax	22.09 (m)
n	.03
I	1 / 706
A	145.4001 (m ²)
P	49.6086 (m)
R	2.9309 (m)
V	2.5693 (m/s)
Q	373.5765 (m ³ /s)

Ui-Chong (NO. 50 + 0)



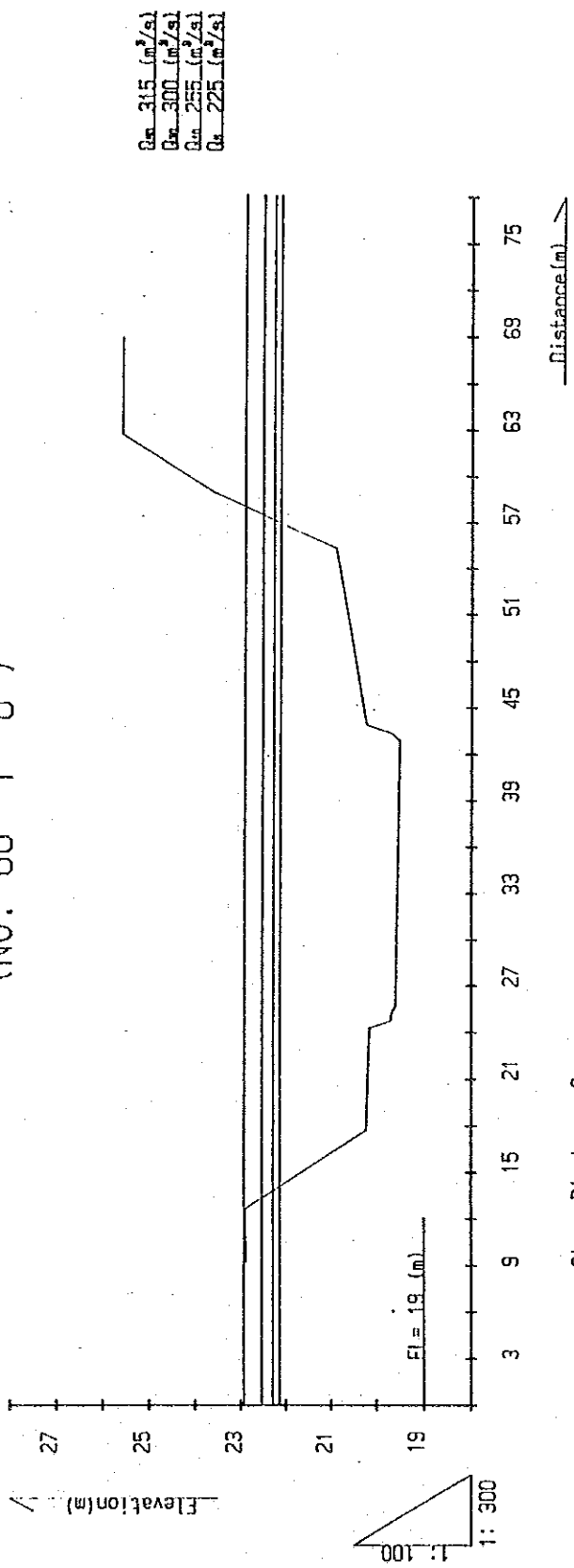
Q_m 315 (m³/s)
 Q_c 300 (m³/s)
 Q_u 255 (m³/s)
 Q_k 225 (m³/s)

Stage-Discharge Curve

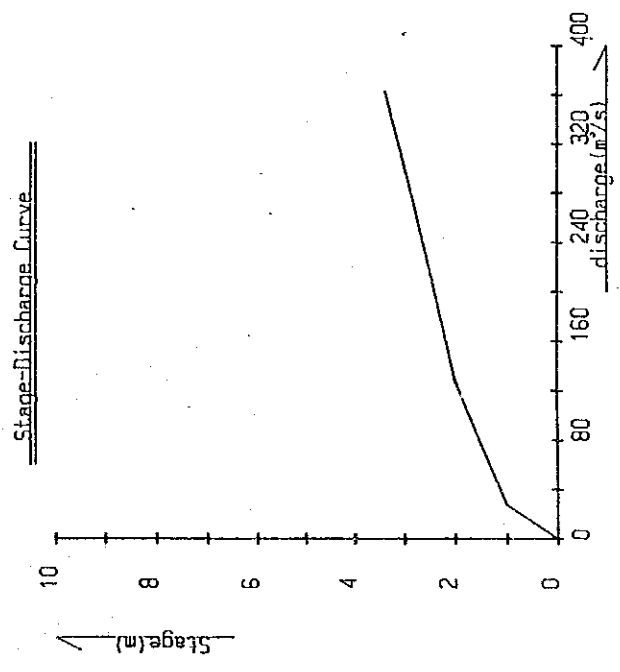


NO.	NO. 50 + 0
Hmin	18.057 (m)
Hmax	22.457 (m)
n	.03
I	1 / 378
A	123.9945 (m ²)
P	43.4782 (m)
R	2.8519 (m)
V	3.4479 (m/s)
Q	427.5207 (m ³ /s)

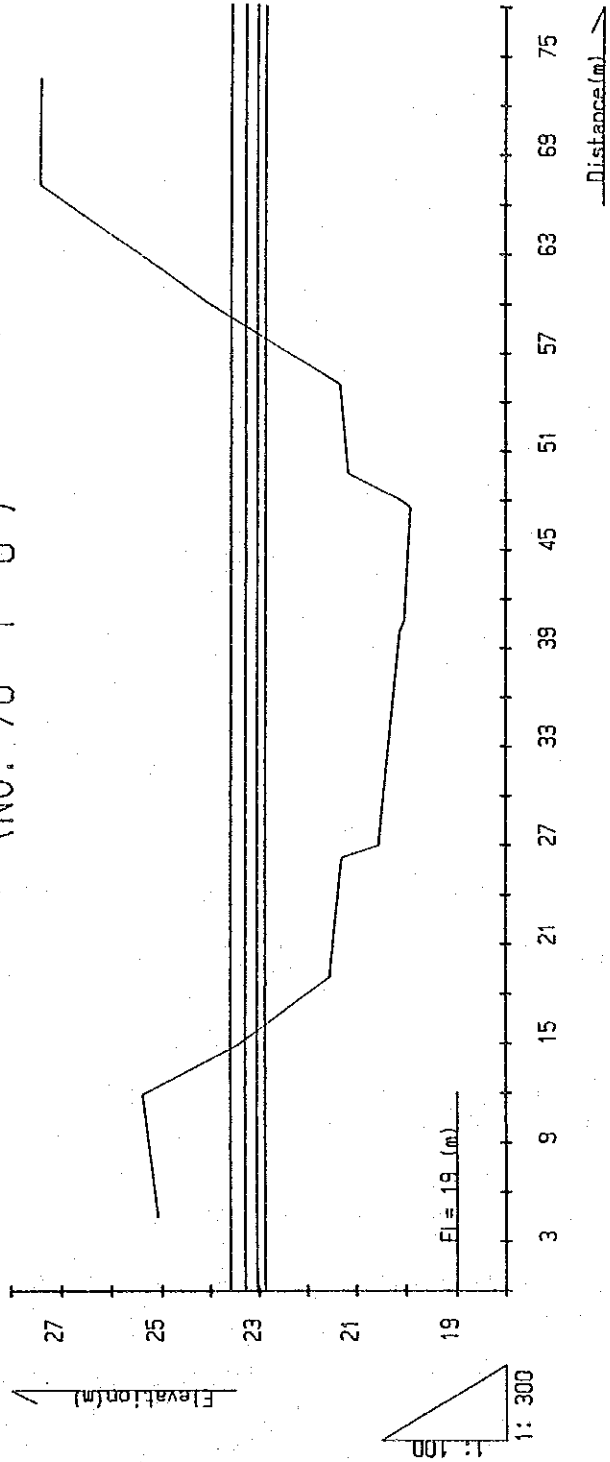
Ui-Chong (NO. 60 + 0)



NO.	NO. 60 + 0
Hmin	19.515 (m)
Hmax	22.915 (m)
n	.03
I	1/ 378
A	119.2344 (m ²)
P	50.5615 (m)
R	2.3582 (m)
V	3.0375 (m/s)
Q	362.1746 (m ³ /s)

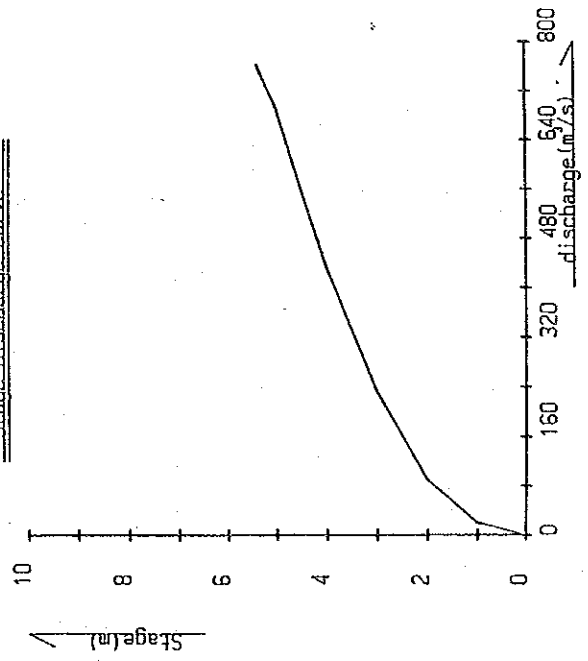


Ui-Chong (NO. 70 + 0)



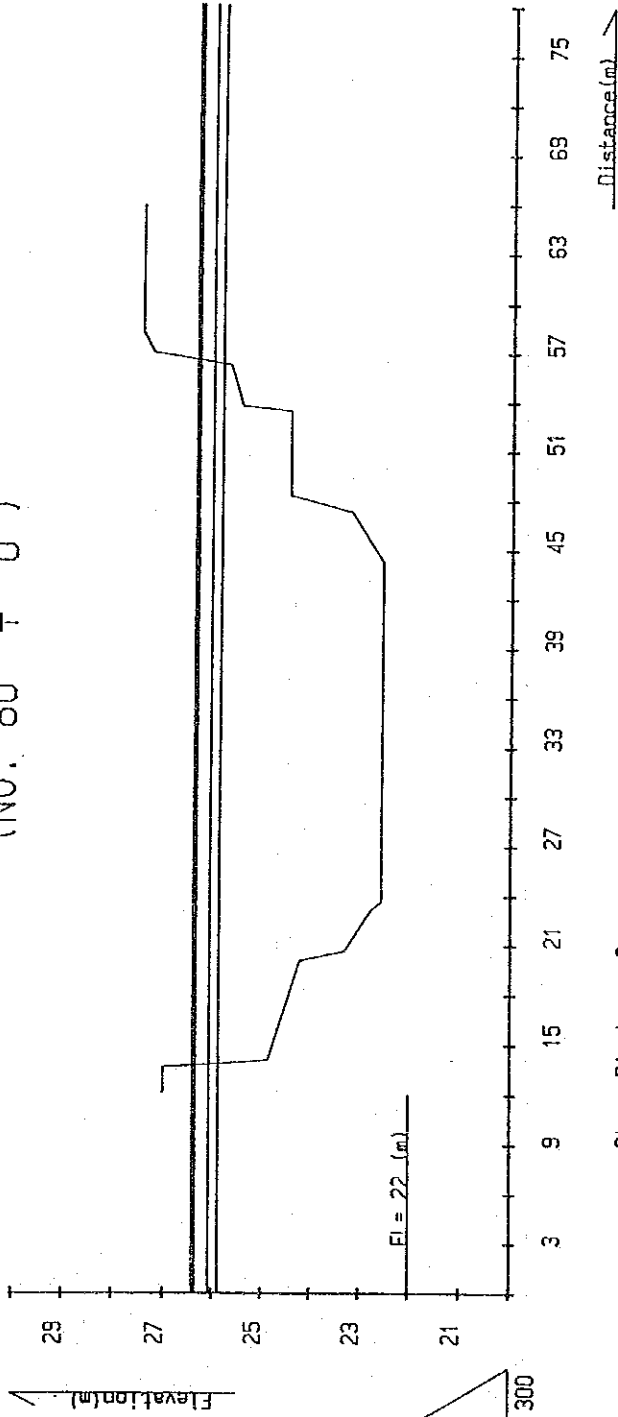
$Q = 315 \text{ (m}^3/\text{s)}$
 $Q = 300 \text{ (m}^3/\text{s)}$
 $Q = 225 \text{ (m}^3/\text{s)}$

Stage-Discharge Curve



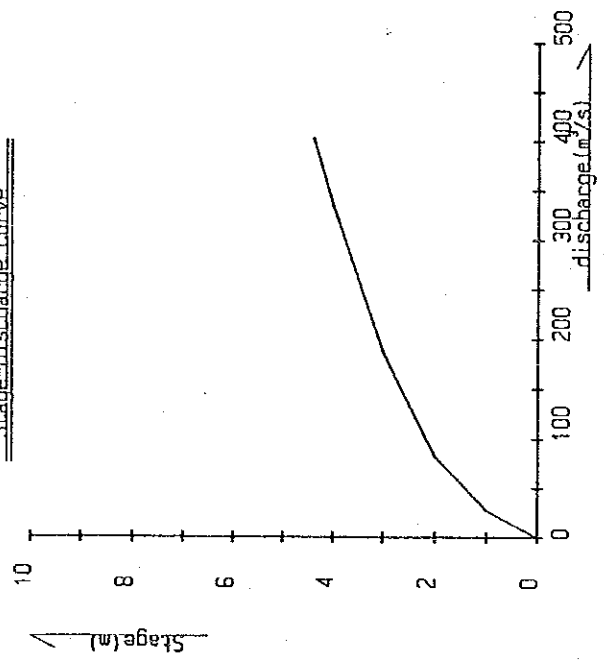
NO.	NO. 70 + 0
Hmin	19.927 (m)
Hmax	25.327 (m)
n	.03
I	1 / 378
A	198.0383 (m ²)
P	59.0271 (m)
R	3.355 (m)
V	3.8423 (m/s)
Q	760.9226 (m ³ /s)

Ui-Chong (NO. 80 + 0)



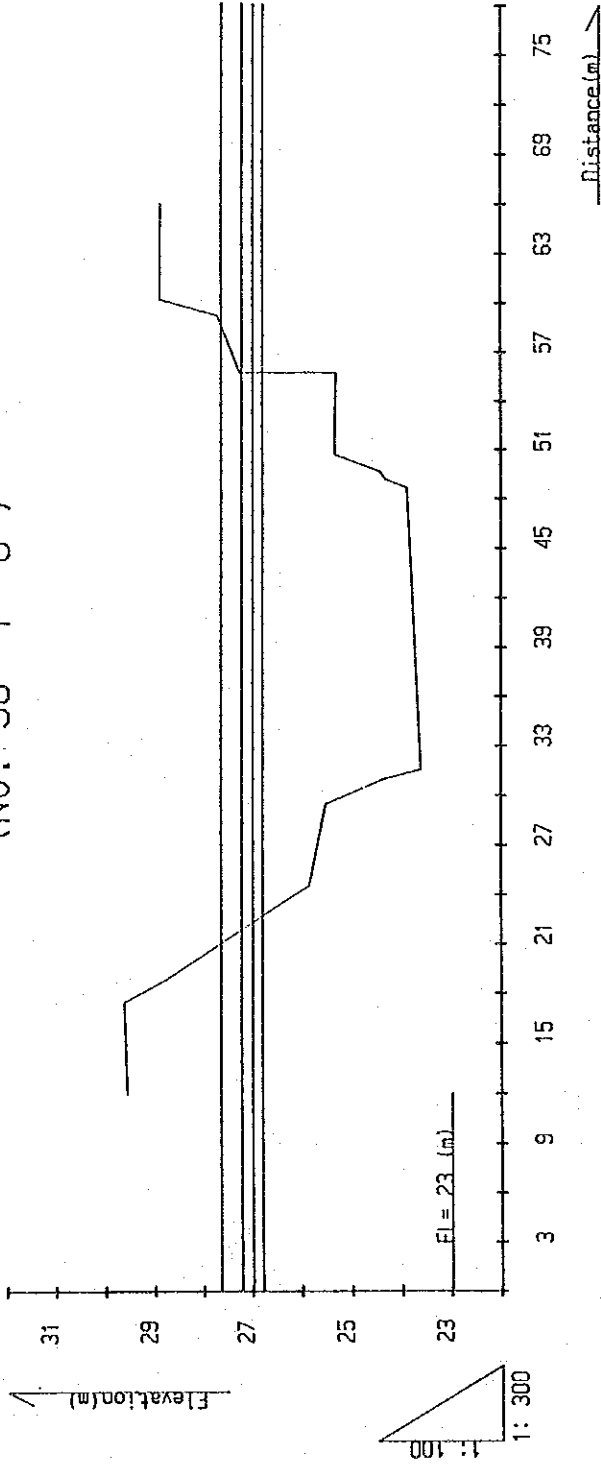
Q_{in} 315 (m³/s)
 Q_{out} 300 (m³/s)
 Q_{in} 255 (m³/s)
 Q_{out} 225 (m³/s)

Stage-Discharge Curve



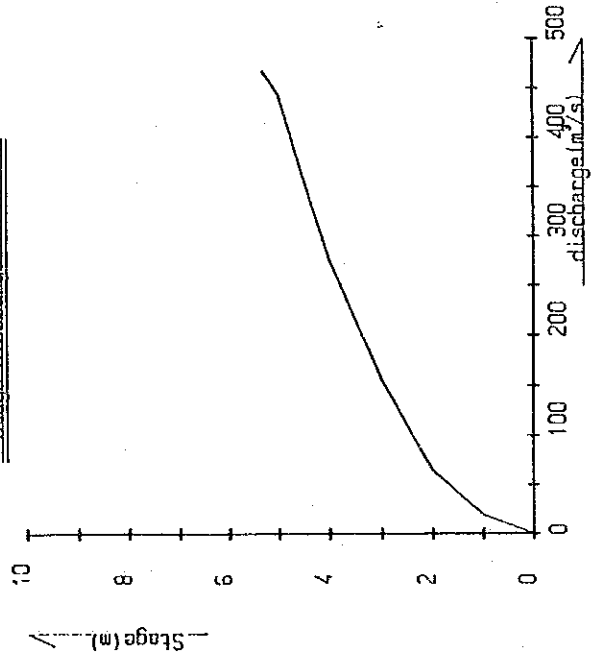
NO.	NO. 80 + 0
Hmin	22.571 (m)
Hmax	26.971 (m)
Q	.03
I	1 / 744
A	152.0488 (m ²)
P	47.7642 (m)
R	3.1833 (m)
V	2.6445 (m/s)
Q	402.093 (m ³ /s)

Ui-Chong (NO. 90 + 0)



Q_{cr} 245 (m³/s)
 Q_m 230 (m³/s)
 Q_u 200 (m³/s)
 Q_k 175 (m³/s)

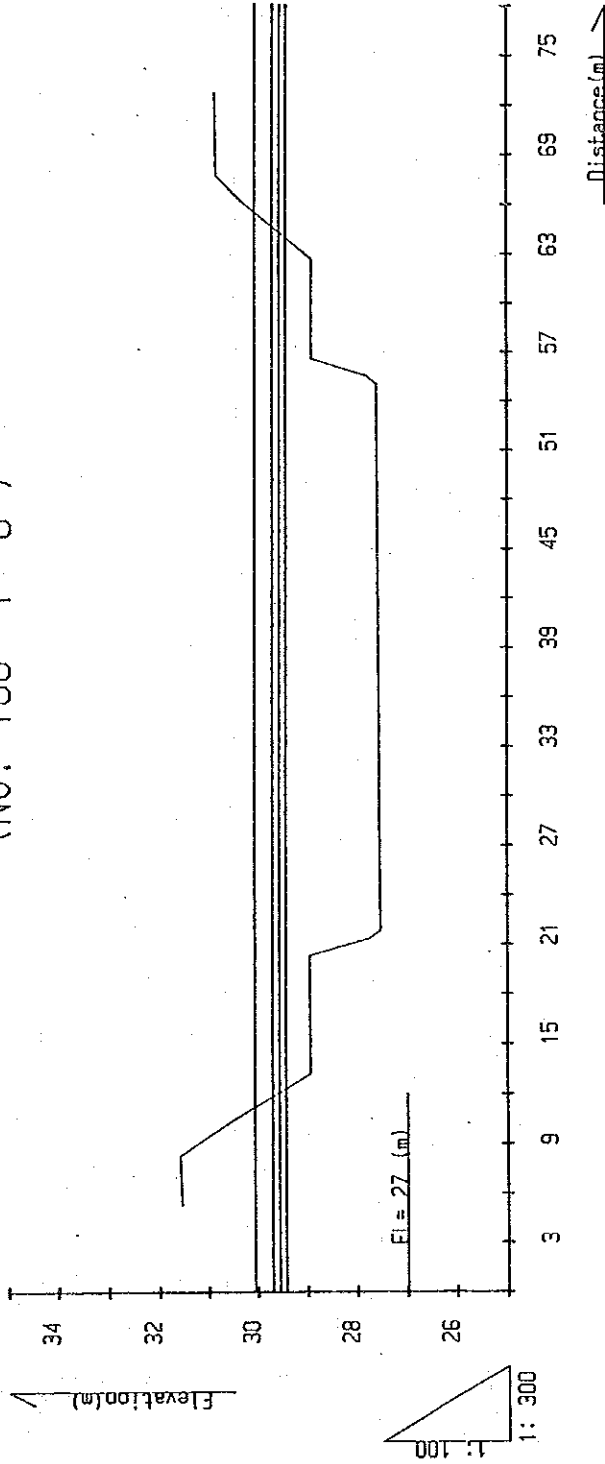
Stage-Discharge Curve



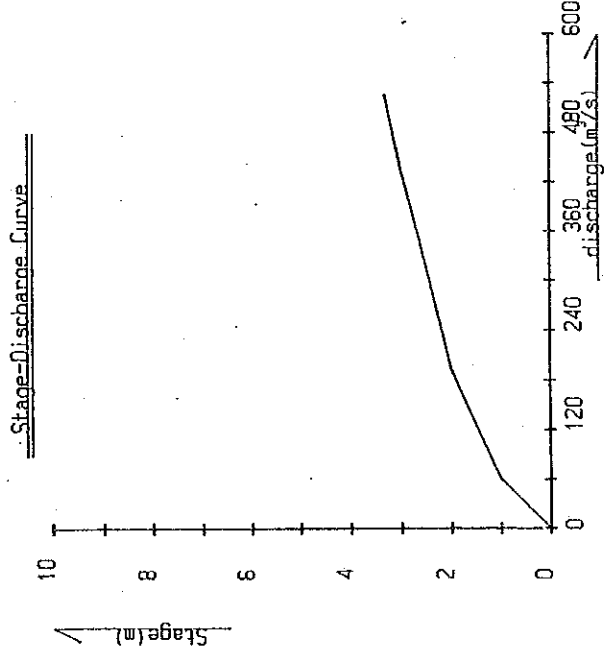
NO	NO. 90 + 0
Hmin	23.633 (m)
Hmax	28.933 (m)
n	.03
I	1 / 525
A	154.8217 (m ²)
P	51.9644 (m)
R	2.9794 (m)
V	3.0122 (m/s)
Q	466.3538 (m ³ /s)

U1-Chong (NO. 100 + 0)

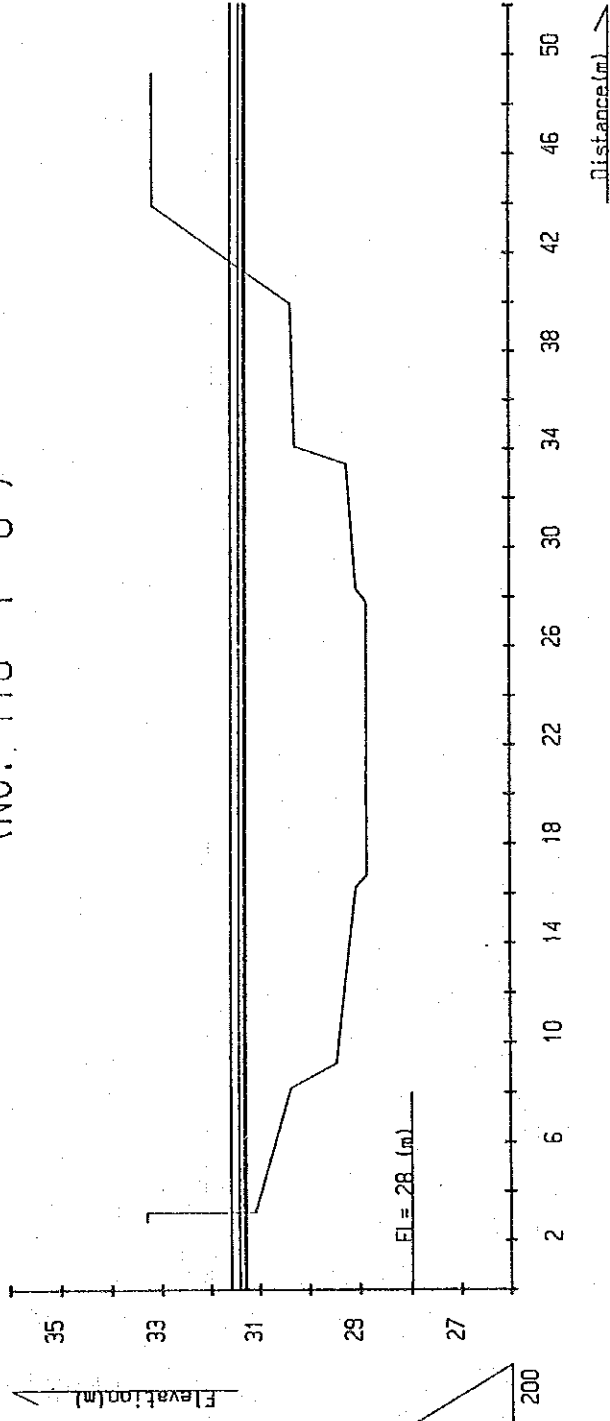
$Q_m = 245 \text{ (m}^3/\text{s)}$
 $Q_n = 230 \text{ (m}^3/\text{s)}$
 $Q_s = 200 \text{ (m}^3/\text{s)}$
 $Q_r = 175 \text{ (m}^3/\text{s)}$



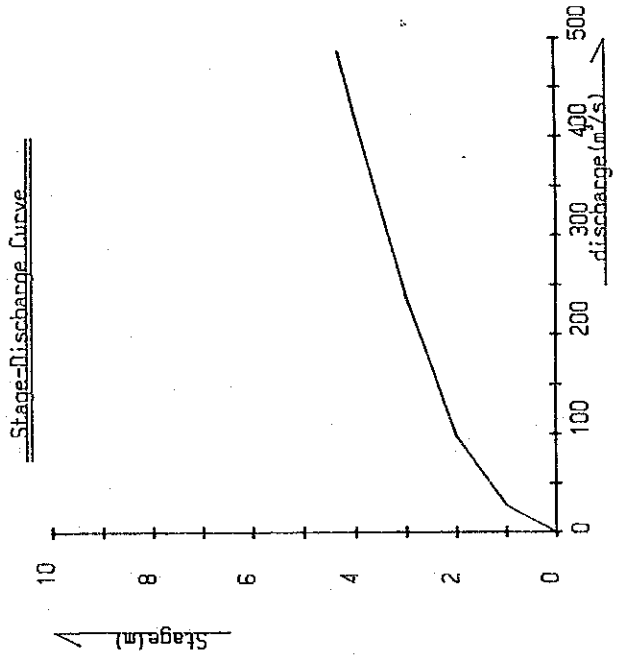
NO.	NO. 100 + 0
Hmin	27.543 (m)
Hmax	30.843 (m)
n	.03
L	1 / 306
A	149.6785 (m ²)
P	59.8691 (m)
R	2.5001 (m)
V	3.5101 (m/s)
Q	525.3867 (m ³ /s)



Ui-Chong (NO. 110 + 0)

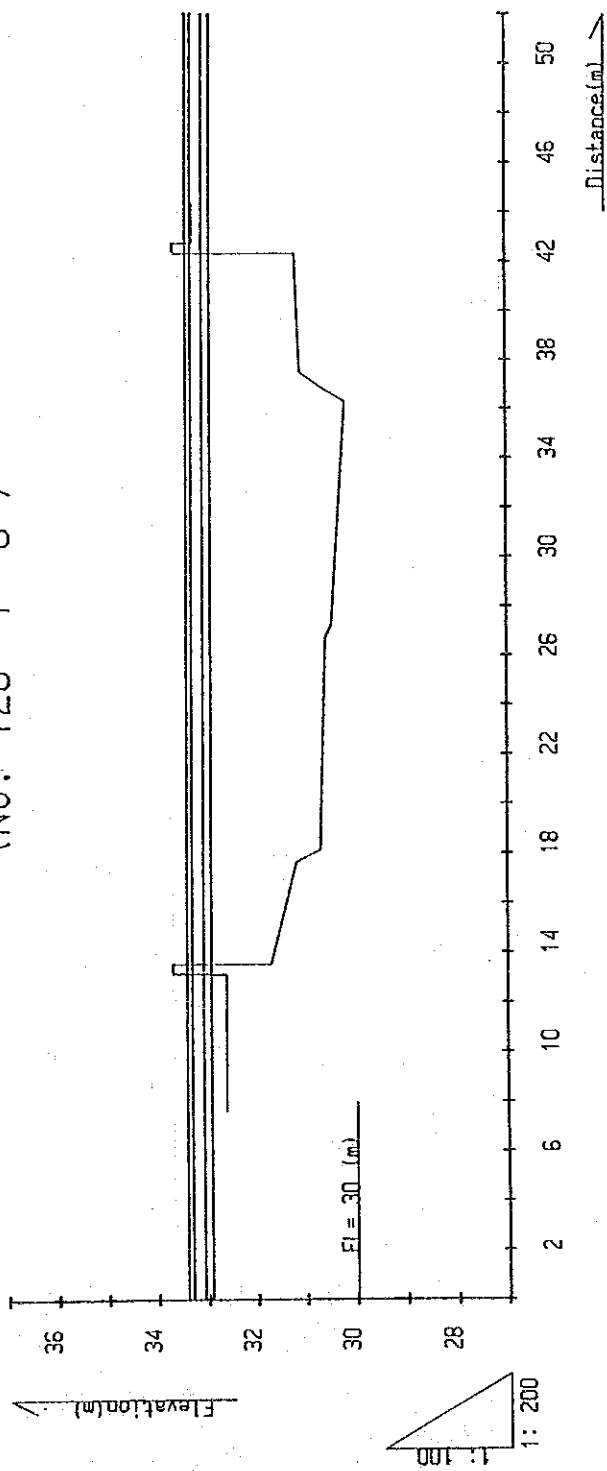


NO.	NO. 110 + 0
Hmin	28.867 (m)
Hmax	33.167 (m)
n	.035
L	1 / 306
A	139.3574 (m ²)
P	44.6875 (m)
R	3.1185 (m)
V	3.4863 (m/s)
Q	485.8416 (m ³ /s)

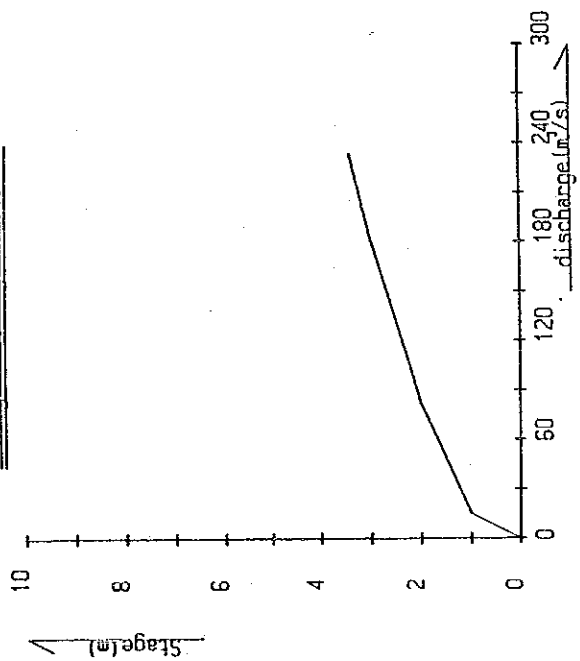


Ui-Chong (NO. 120 + 0)

Qm 210 (m³/s)
 Qm 195 (m³/s)
 Qm 170 (m³/s)
 Qm 150 (m³/s)

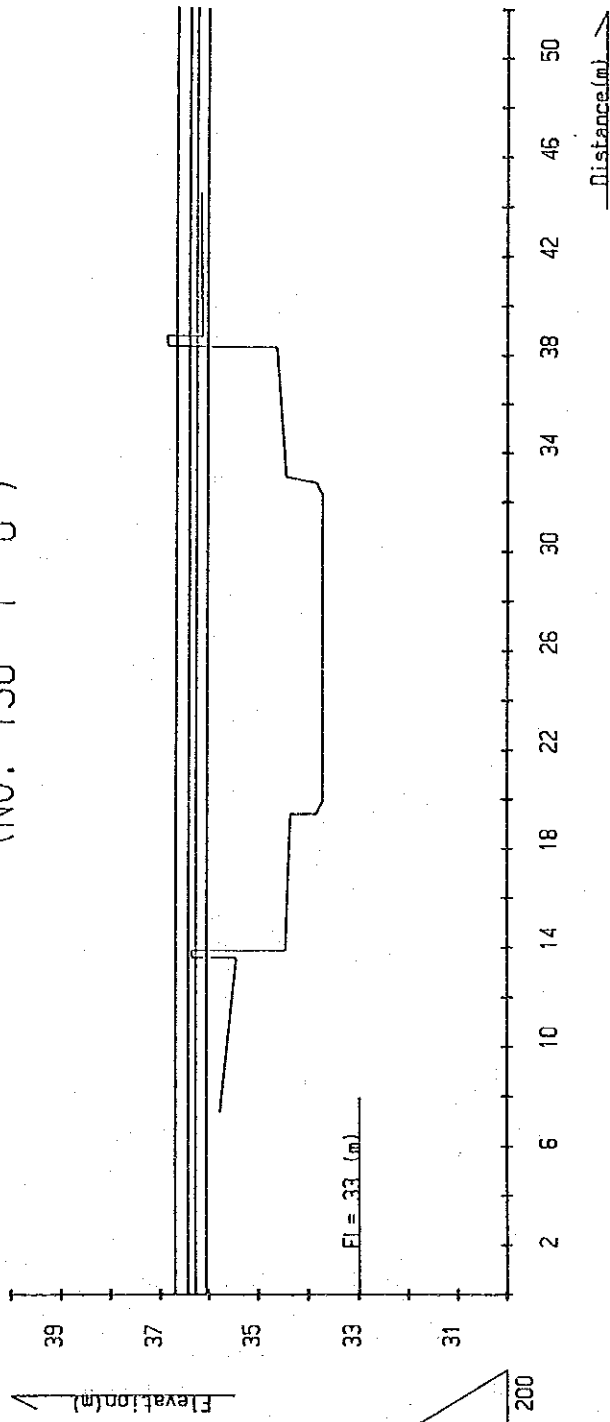


Stage-Discharge Curve



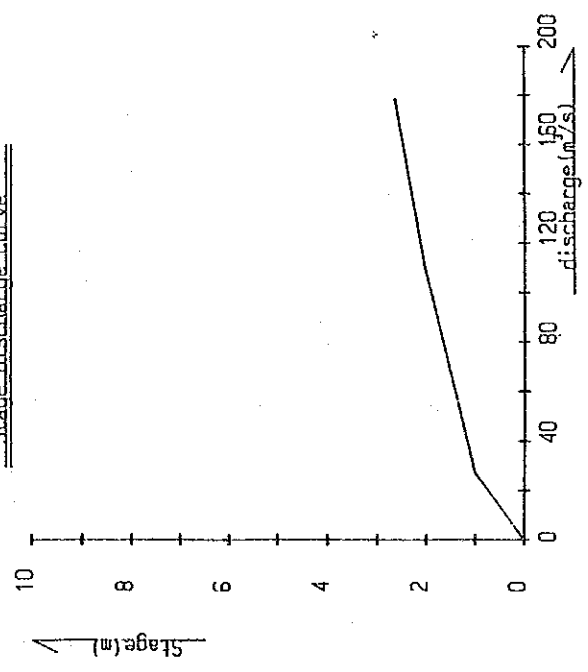
NO.	NO. 120 + 0
Hmin	30.196 (m)
Hmax	33.596 (m)
n	0.35
L	1 / 306
A	87.4265 (m ²)
P	41.9448 (m)
R	2.0843 (m)
V	2.6651 (m/s)
Q	233.0005 (m ³ /s)

Ui-Chong (NO. 130 + 0)



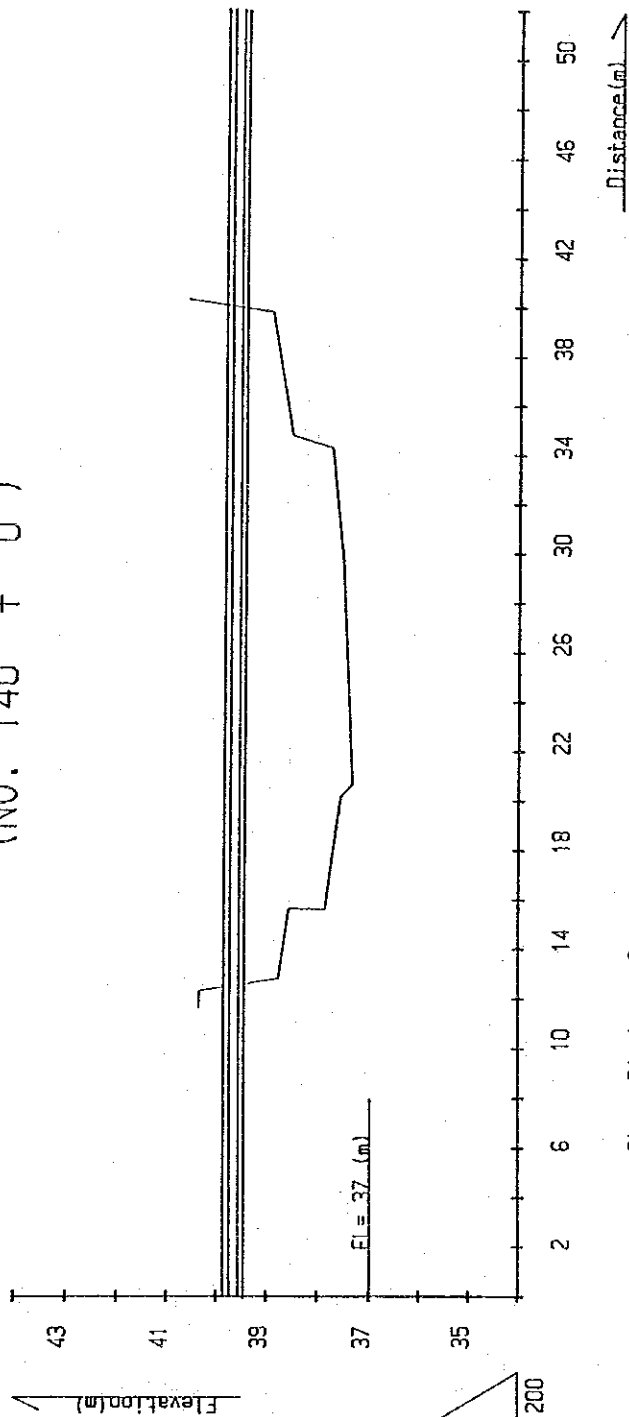
Q_m 210 (m³/s)
 Q_{10} 195 (m³/s)
 Q_m 170 (m³/s)
 Q_c 150 (m³/s)

Stage-Discharge Curve

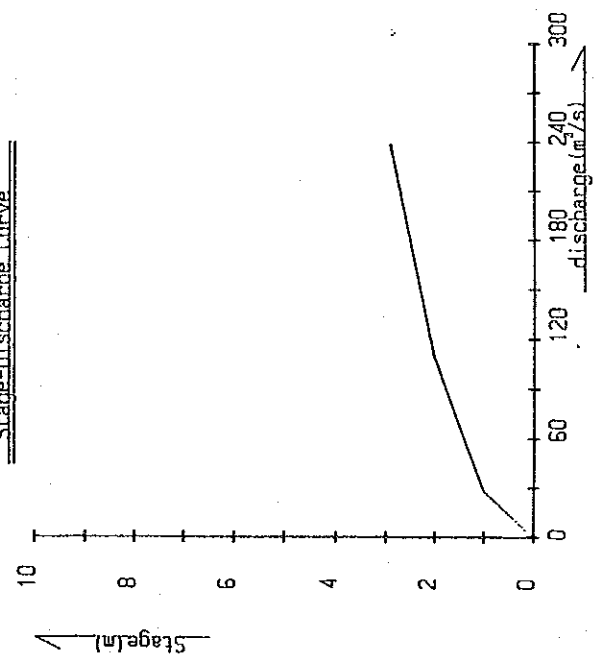


NO.	NO. 130 + 0
Hmin	33.749 (m)
Hmax	36.349 (m)
n	.035
T	1 / 153
A	60.5506 (m ²)
P	42.0279 (m)
R	1.4407 (m)
V	2.9465 (m/s)
Q	178.4123 (m ³ /s)

Ui-Chong (NO. 140 + 0)

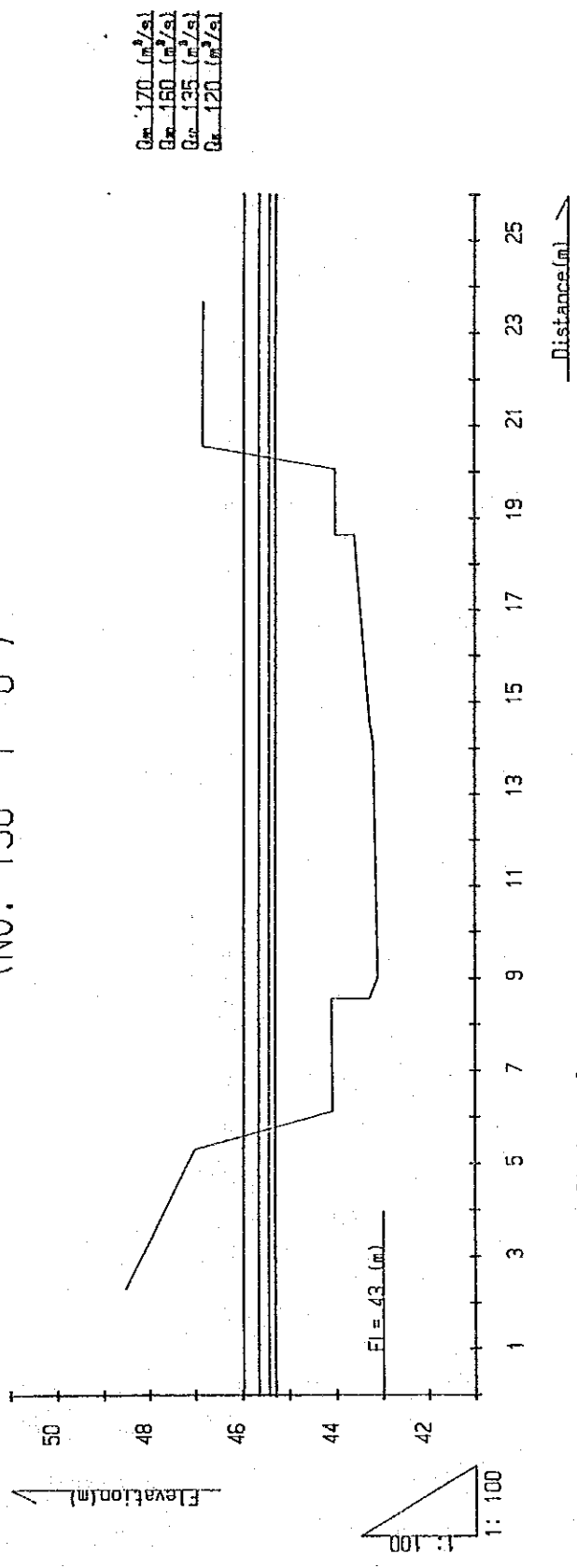


Stage-Discharge Curve

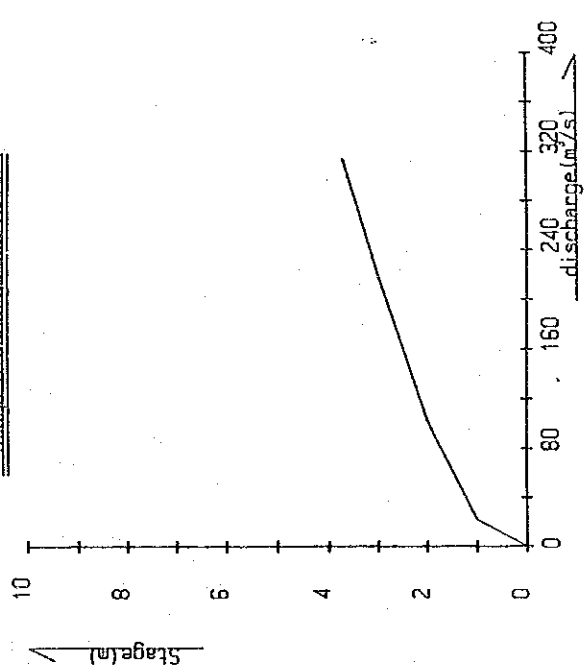


NO	NO. 140 + 0
Hmin	37.368 (m)
Hmax	40.268 (m)
n	0.035
I	1 / 153
A	63.8113 (m ²)
P	31.134 (m)
R	2.0496 (m)
V	3.7271 (m/s)
Q	237.8313 (m ³ /s)

Ui-Chong (NO. 150 + 0)

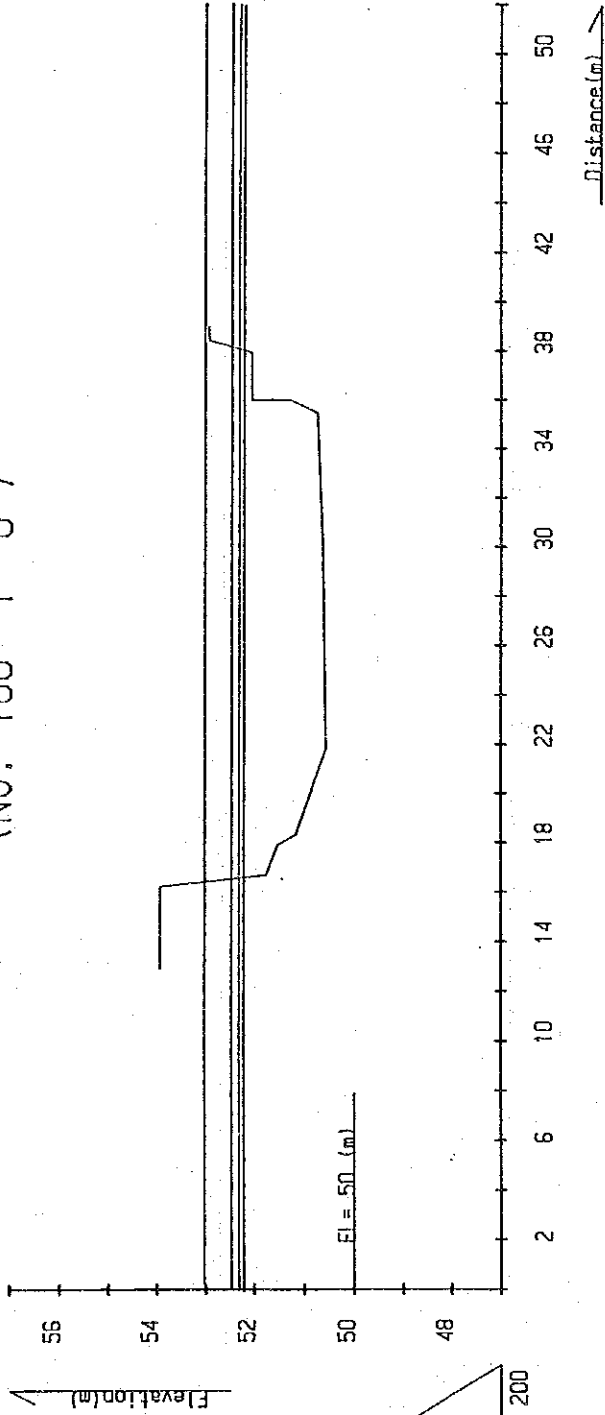


Stage-Discharge Curve



NO.	NO. 150 + 0
Hmin	43.117 (m)
Hmax	46.817 (m)
n	.035
L	1 / 57
A	47.7024 (m ²)
P	20.8457 (m)
R	2.2884 (m)
V	6.5718 (m ³ /s)
Q	313.4907 (m ³ /s)

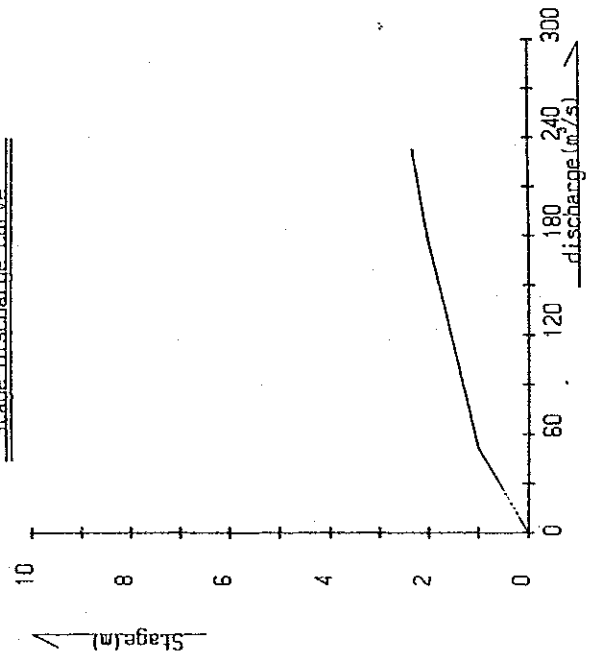
Ui-Chong (NO. 160 + 0)



Q_m 170 (m^3/s)
 Q_c 160 (m^3/s)
 Q_n 135 (m^3/s)
 Q_a 120 (m^3/s)

1: 100
 1: 200

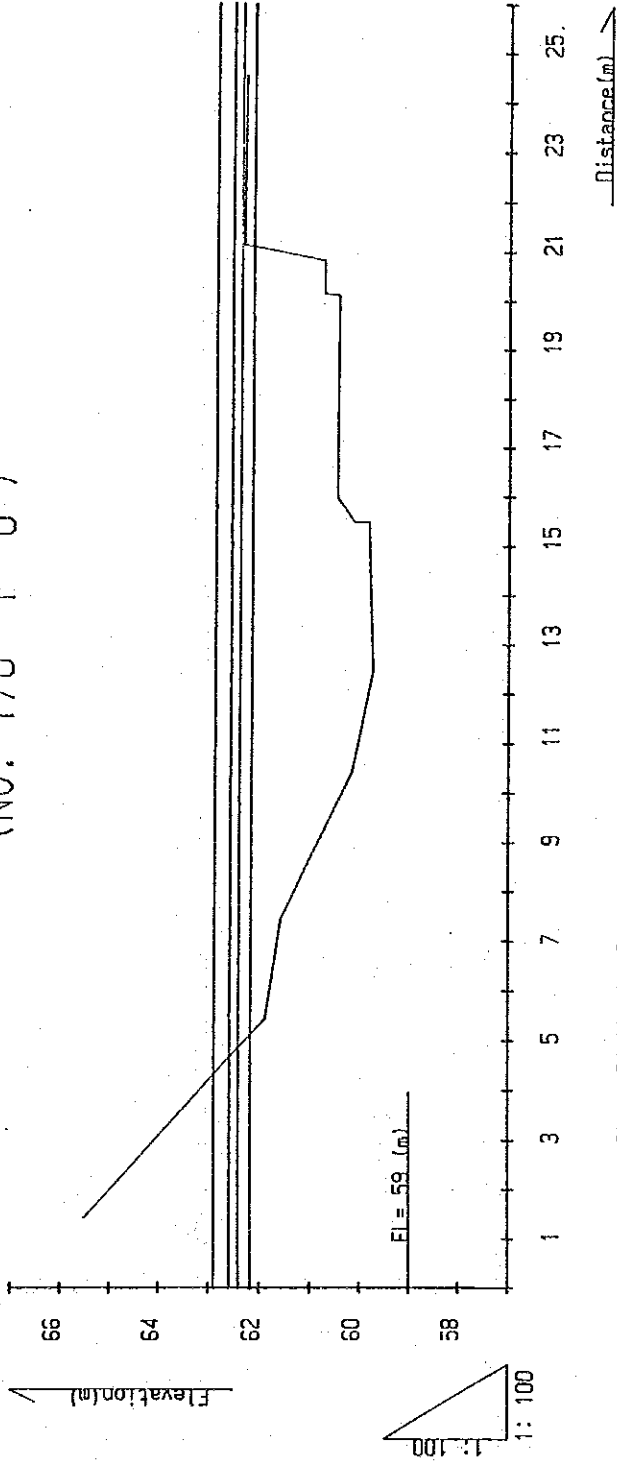
Stage-Discharge Curve



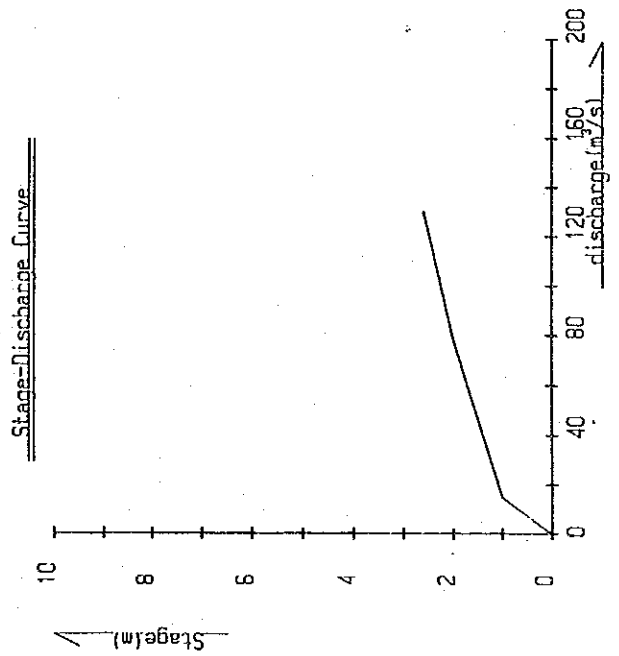
NO.	NO. 160 + 0
Hmin	50.586 (m)
Hmax	52.886 (m)
n	.035
I	1 / 57
A	42.4626 (m^2)
P	24.4856 (m)
R	1.7342 (m)
V	5.4625 (m/s)
Q	231.9521 (m^3/s)

Ui-Chong (NO. 170 + 0)

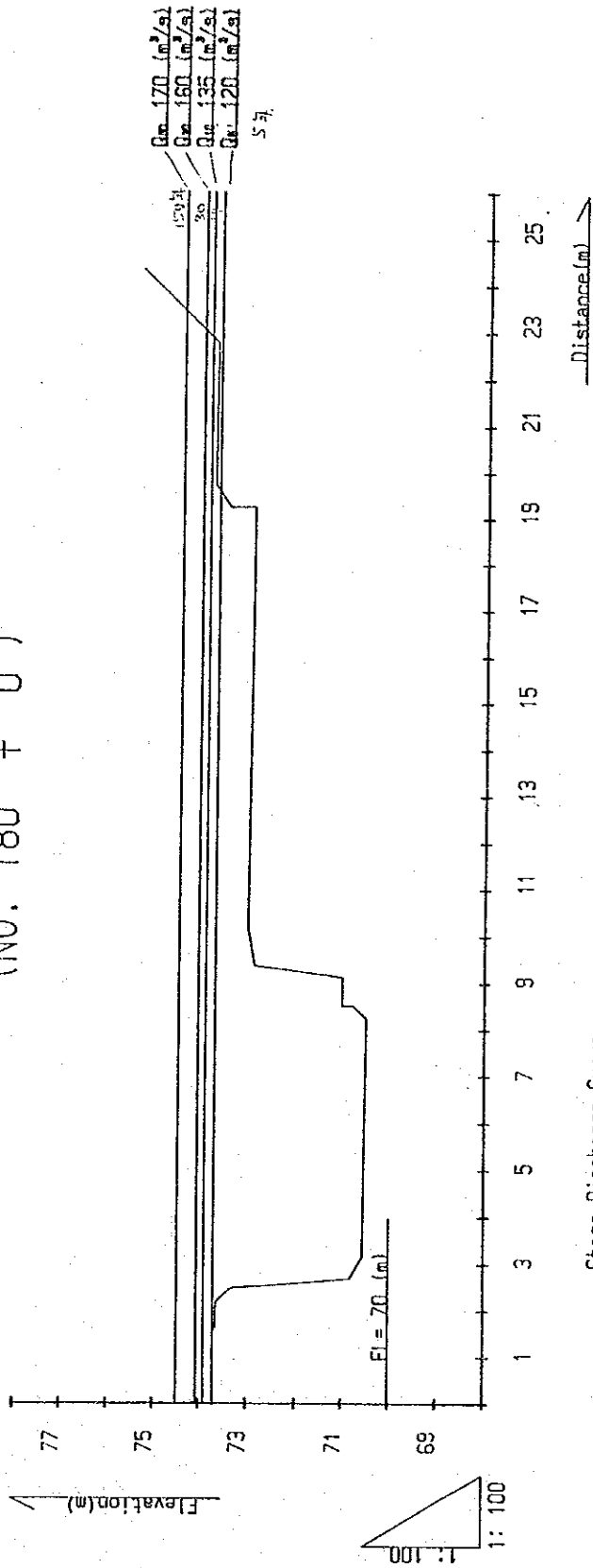
$Q_{100} = 170 \text{ (m}^3\text{/s)}$
 $Q_{50} = 160 \text{ (m}^3\text{/s)}$
 $Q_{25} = 135 \text{ (m}^3\text{/s)}$
 $Q_{10} = 120 \text{ (m}^3\text{/s)}$



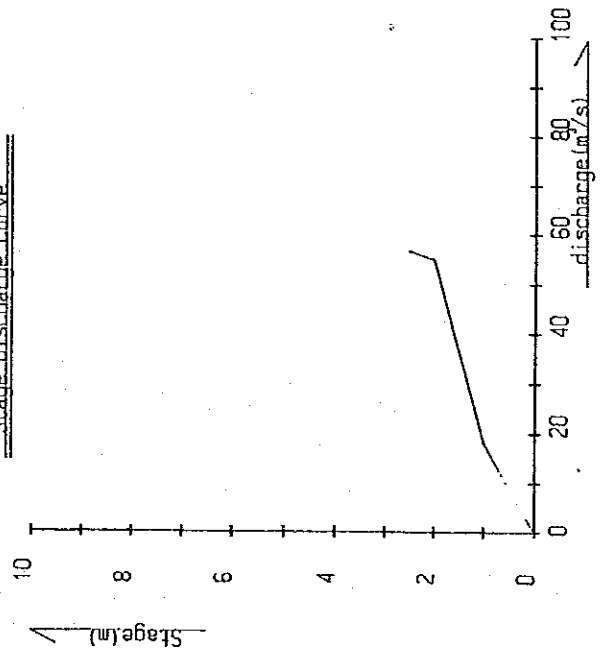
NO.	NO. 170 + 0
Hmin	59.762 (m)
Hmax	62.362 (m)
n	.035
I	1 / 57
A	28.5786 (m ²)
P	21.7561 (m)
R	1.3136 (m)
V	4.5391 (m/s)
Q	129.721 (m ³ /s)



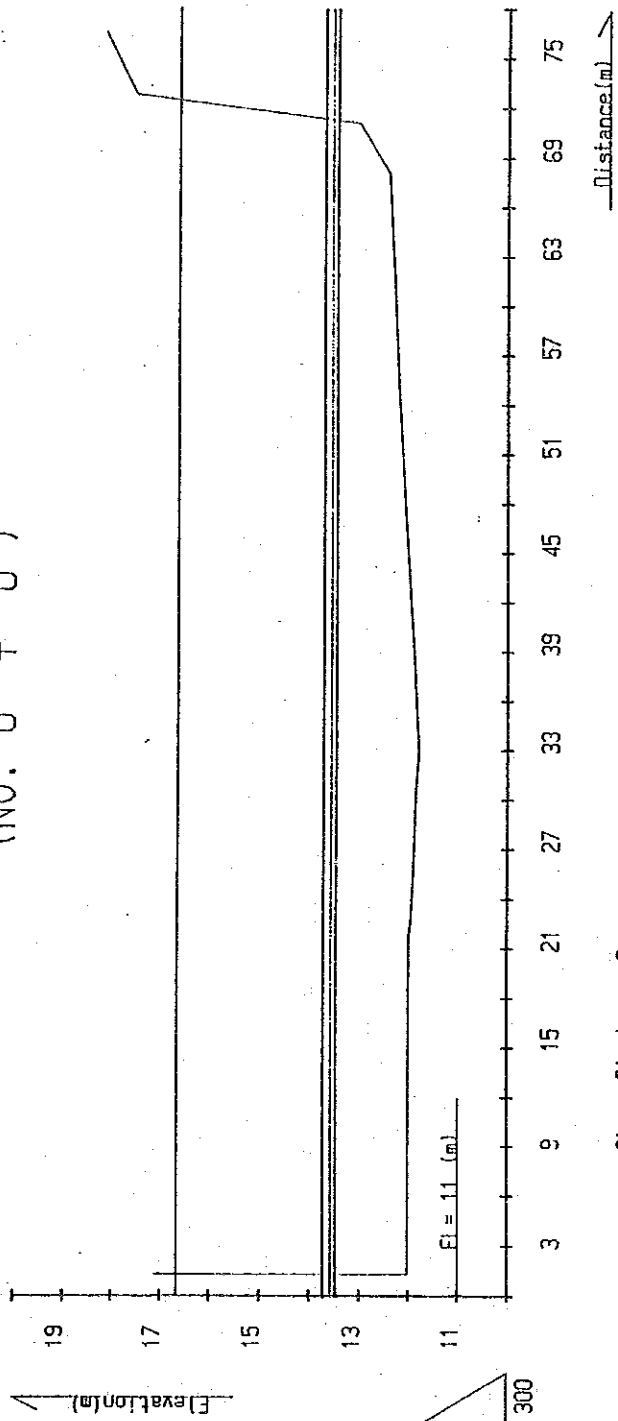
Ui-Chong
(NO. 180 + 0)



NO.	NO. 180 + 0
Hmin	70.5 (m)
Hmax	73 (m)
n	.035
I	1/57
A	16.1222 (m ²)
P	18.012 (m)
R	.8951 (m)
V	3.5149 (m/s)
Q	56.6679 (m ³ /s)

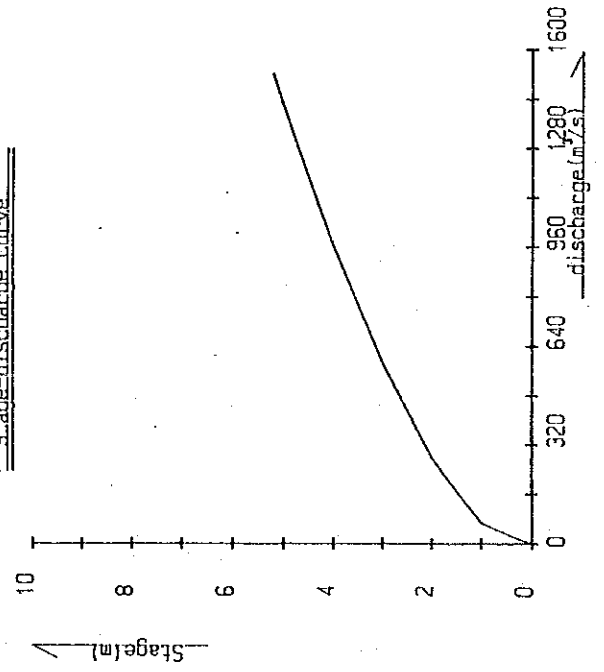


Chungroung-Chong (NO. 0 + 0)



Q_m 270 (m³/s)
 Q_m 255 (m³/s)
 Q_m 215 (m³/s)
 Q_k 195 (m³/s)

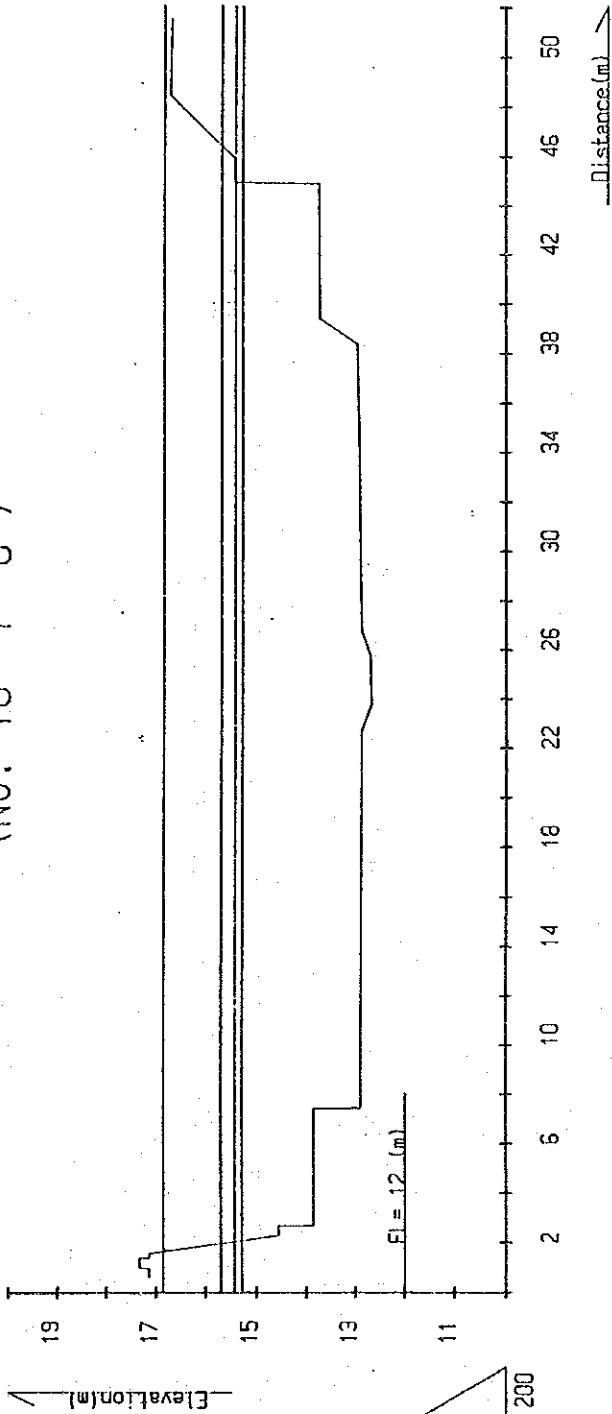
Stage-Discharge Curve



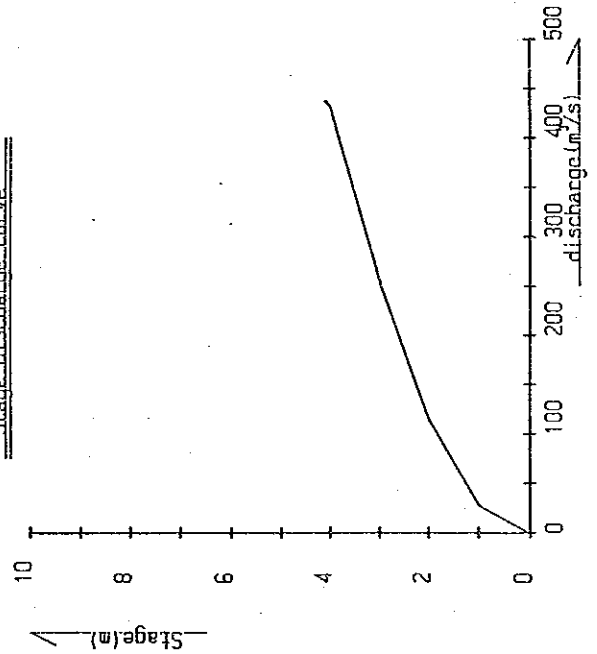
NO.	NO. 0 + 0
Hmin	11.81 (m)
Hmax	17.01 (m)
D	.03
I	1 / 414
A	346.3657 (m ²)
P	79.0708 (m)
R	4.3804 (m)
V	4.3859 (m/s)
Q	1519.1251 (m ³ /s)

Chungroung-Chong (NO. 10 + 0)

Qm 270 (m³/s)
 Qm 255 (m³/s)
 Qm 215 (m³/s)
 Qm 195 (m³/s)

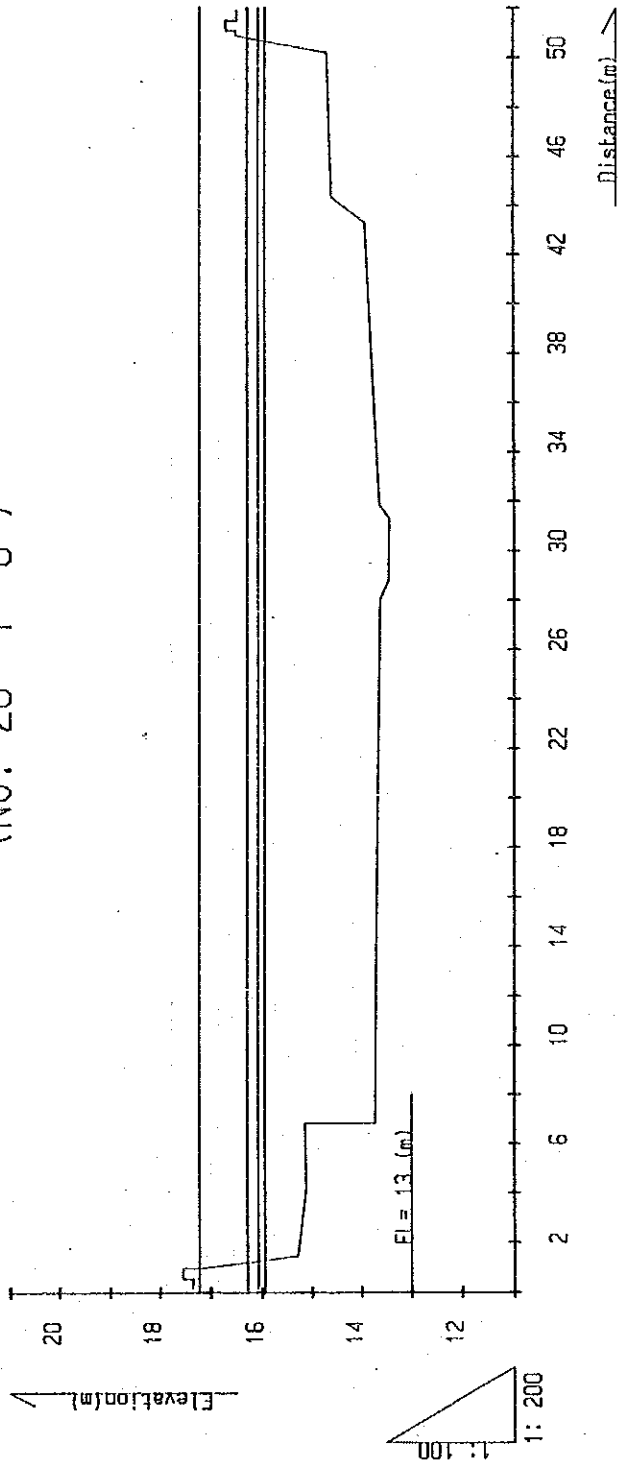


NO.	NO. 10 + 0
Hmin	12.703 (m)
Hmax	16.803 (m)
n	.03
l	1 / 610
A	159.7664 (m ²)
P	55.4234 (m)
R	2.8827 (m)
V	2.7337 (m/s)
Q	436.7535 (m ³ /s)

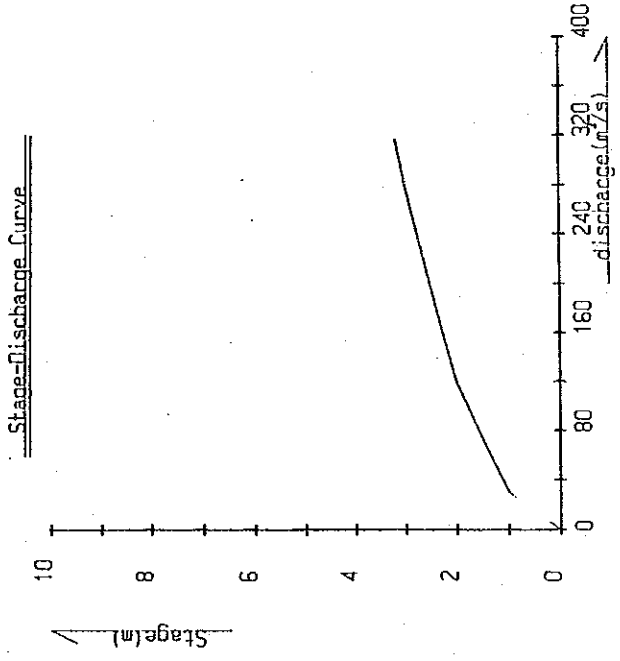


Chungroung-Chong (NO. 20 + 0)

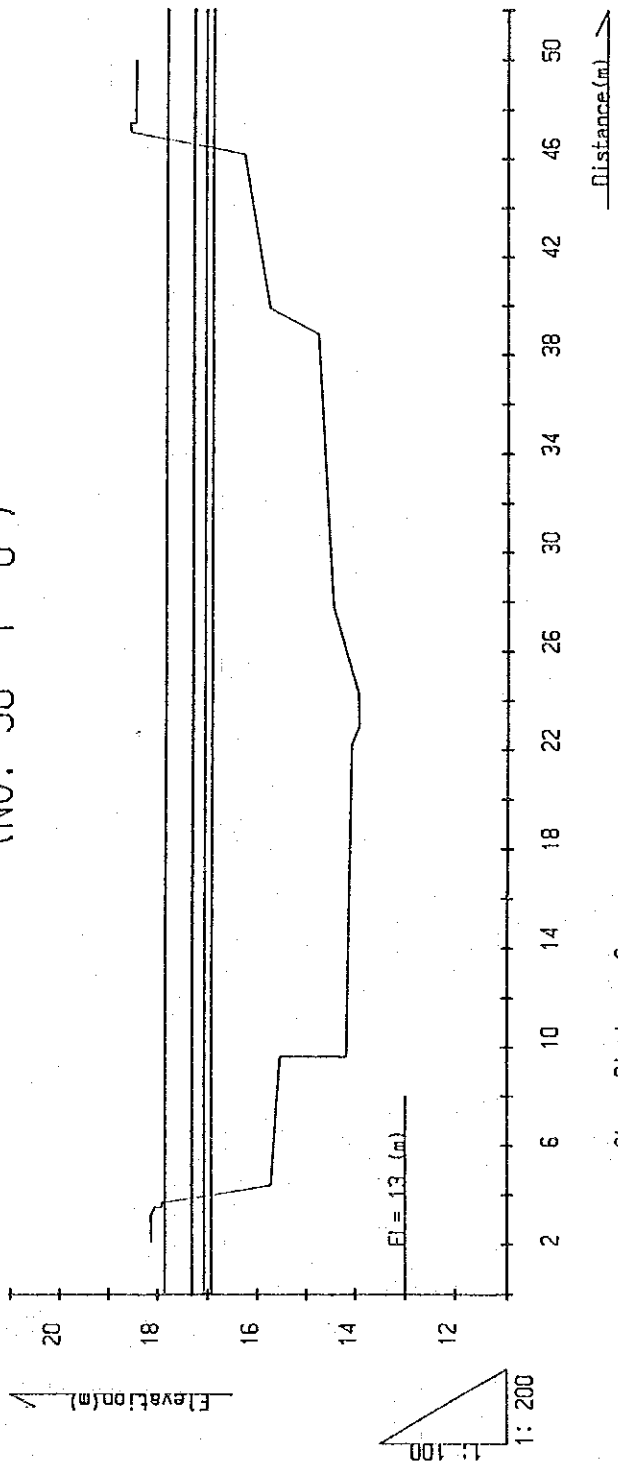
Q_m 270 (m^3/s)
 Q_n 255 (m^3/s)
 Q_{in} 215 (m^3/s)
 Q_e 195 (m^3/s)



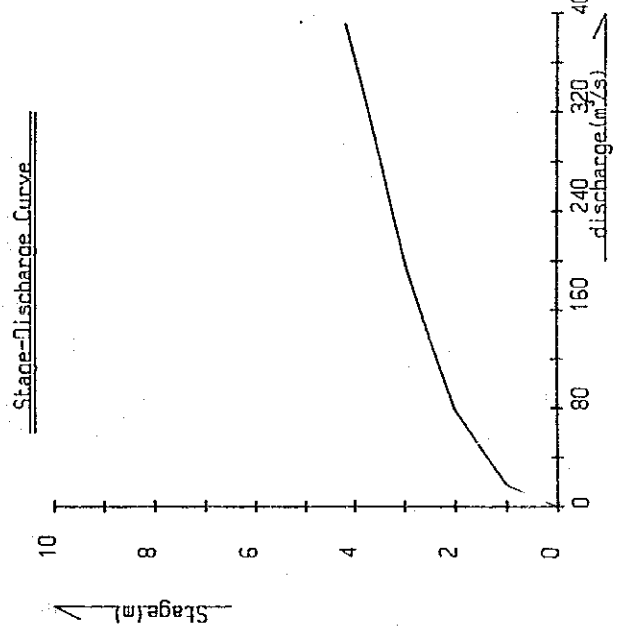
NO.	NO. 20 + 0
Hmin	13.442 (m)
Hmax	16.642 (m)
n	.03
I	1 / 610
A	130.7025 (m^2)
P	54.5709 (m)
R	2.3951 (m)
V	2.416 (m^3/s)
Q	315.7772 (m^3/s)



Chungroung-Chong (NO: 30 + 0)



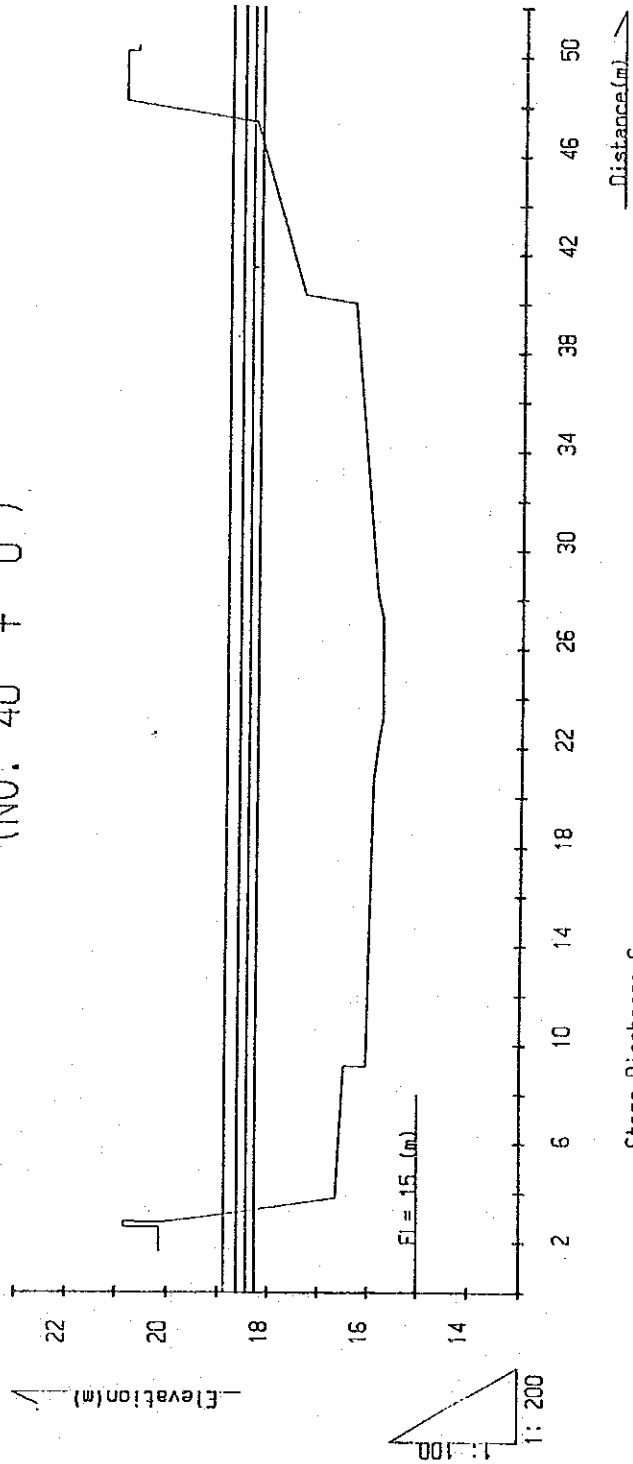
$Q_m = 270 \text{ (m}^3\text{/s)}$
 $Q_m = 255 \text{ (m}^3\text{/s)}$
 $Q_m = 215 \text{ (m}^3\text{/s)}$
 $Q_m = 195 \text{ (m}^3\text{/s)}$



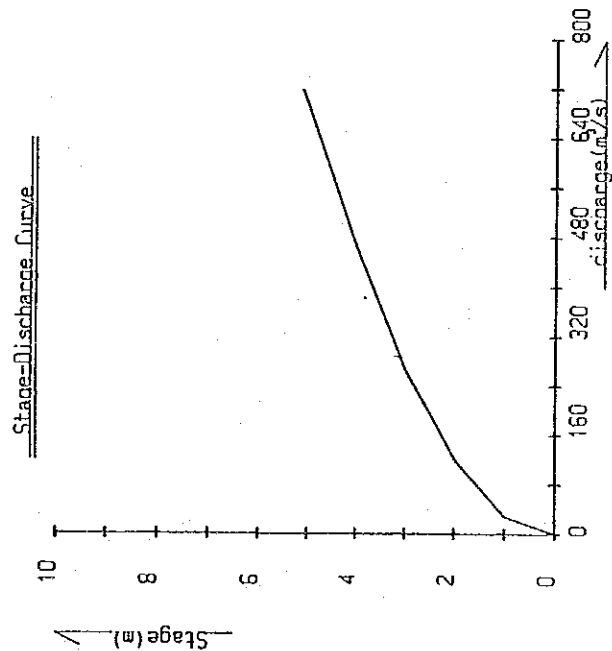
NO.	NO. 30 + 0
Hmin	13.95 (m)
Hmax	18.15 (m)
n	.03
I	1 / 610
A	142.8963 (m ²)
P	49.6238 (m)
R	2.8796 (m)
V	2.7317 (m/s)
Q	390.3497 (m ³ /s)

Chungroung-Chong (NO. 40 + 0)

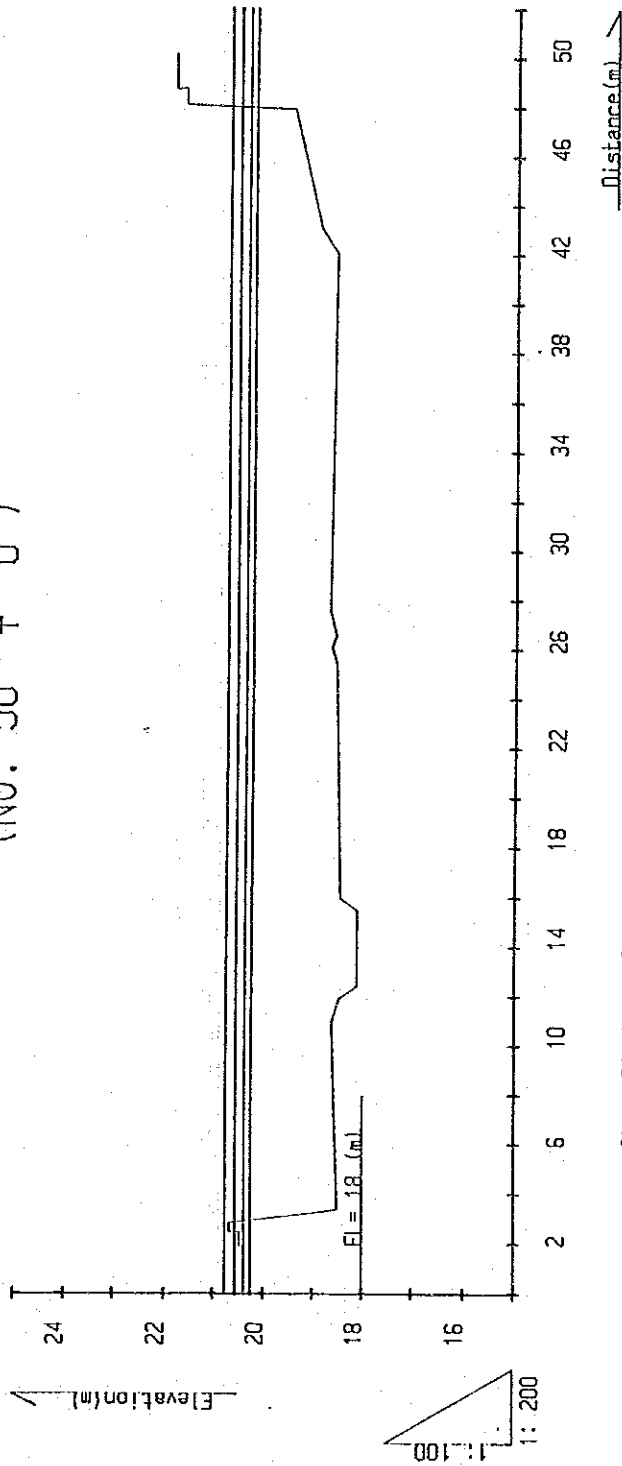
$Q_m = 260 \text{ (m}^3/\text{s)}$
 $Q_{50} = 245 \text{ (m}^3/\text{s)}$
 $Q_{10} = 210 \text{ (m}^3/\text{s)}$
 $Q_0 = 185 \text{ (m}^3/\text{s)}$



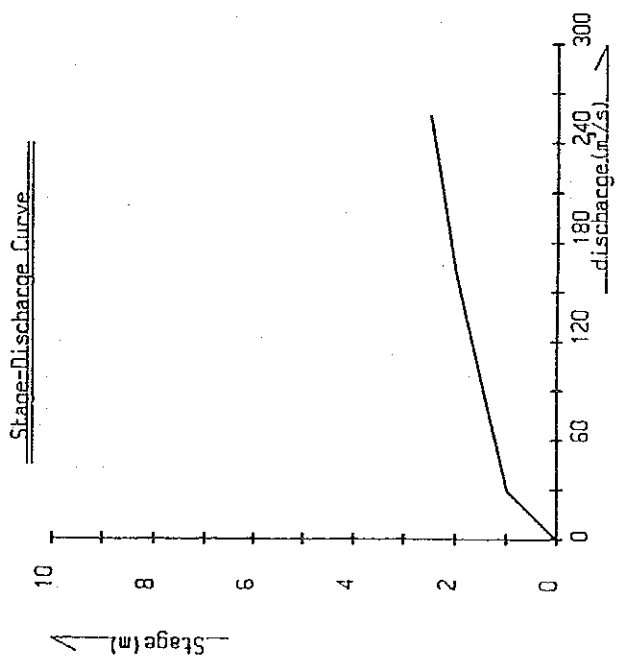
NO.	NO. 40 + 0
Hmin	15.753 (m)
Hmax	20.853 (m)
D	.03
I	1 / 492
A	199.58 (m ²)
P	54.014 (m)
R	3.695 (m)
V	3.5917 (m/s)
Q	716.8317 (m ³ /s)



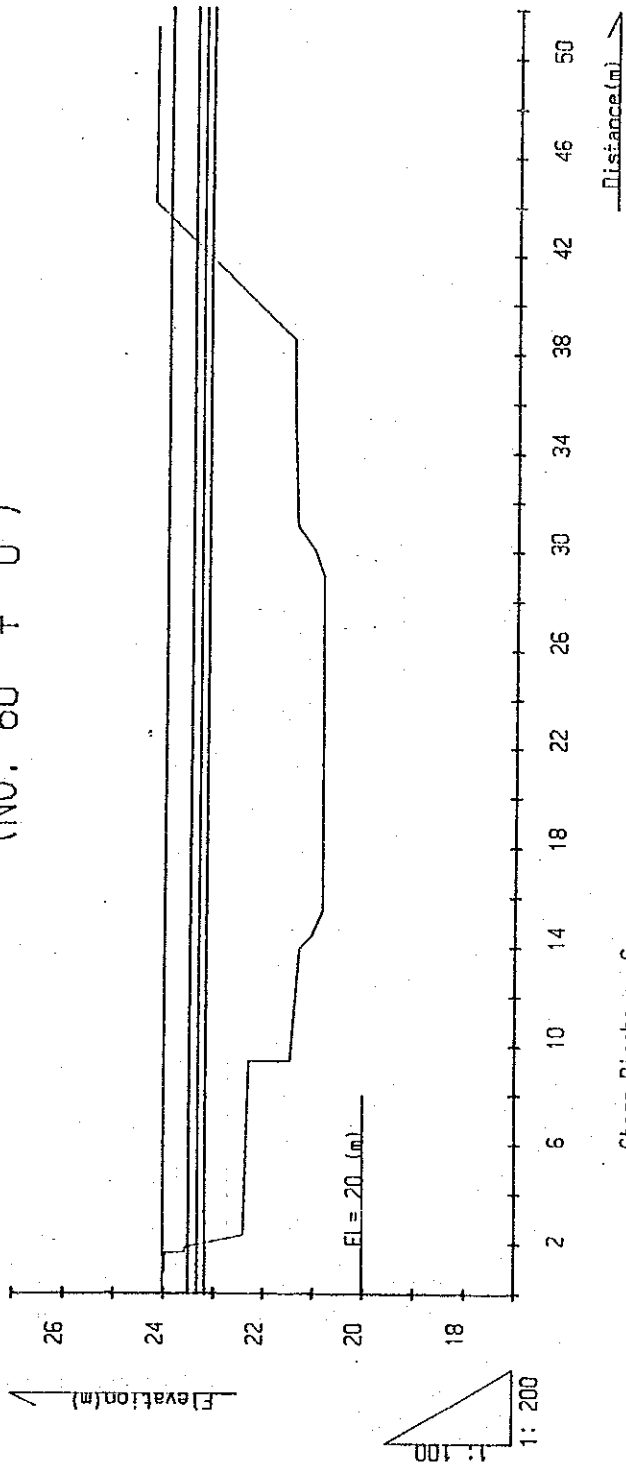
Chungroung-Chong (NO: 50 + 0)



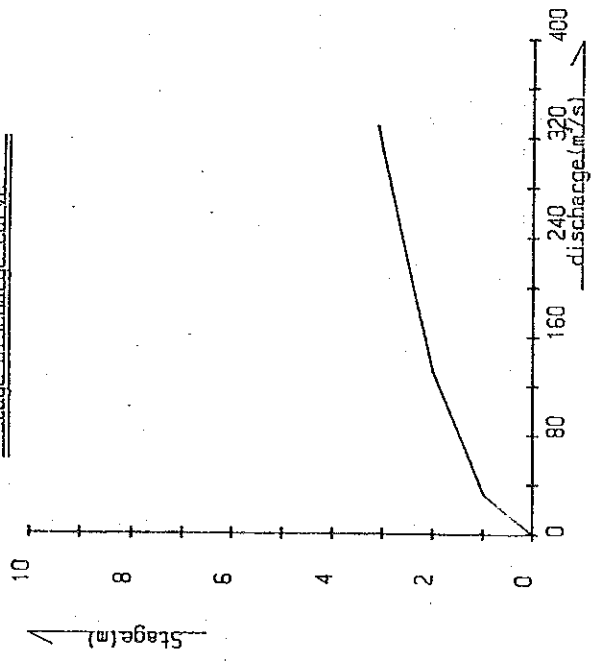
NO.	NO. 50 + 0
Hmin	18.121 (m)
Hmax	20.621 (m)
n	.03
I	1 / 310
A	90.1348 (m ²)
P	48.9951 (m)
R	1.8397 (m)
V	2.8425 (m/s)
Q	256.2081 (m ³ /s)



Chungroung-Chong (NO. 60 + 0)



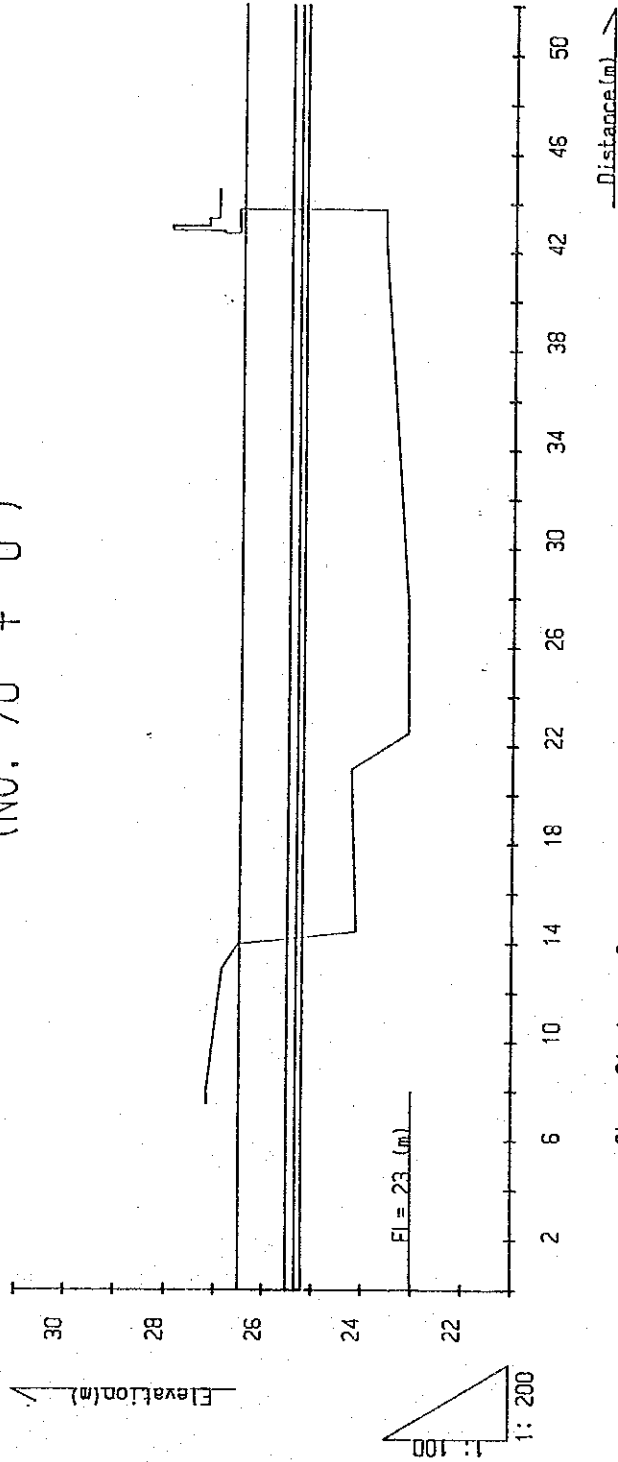
Stage-Discharge Curve



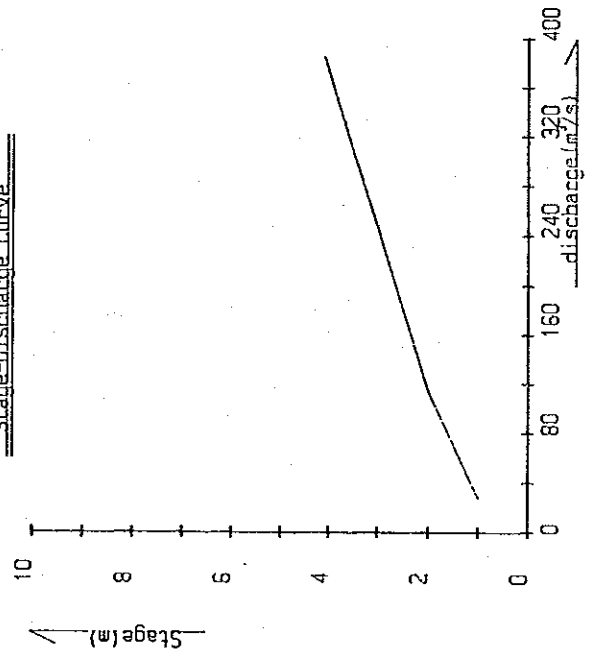
NO.	NO. 60 + 0
Hmin	20.831 (m)
Hmax	23.931 (m)
Q	.03
T	1/302
A	99.9155 (m²)
P	44.4342 (m)
R	2.2486 (m)
V	3.2922 (m³/s)
Q	328.9418 (m³/s)

Chungroung-Chong (NO: 70 + 0)

Q_m 175 (m³/s)
 Q_n 165 (m³/s)
 Q_p 140 (m³/s)
 Q_s 125 (m³/s)



Stage-Discharge Curve



NO.	NO. 70 + 0
Hmin	23.1 (m)
Hmax	27.2 (m)
n	.03
I	1 / 302
A	110.0216 (m ²)
P	44.8419 (m)
R	2.4535 (m)
V	3.4893 (m/s)
Q	383.8983 (m ³ /s)

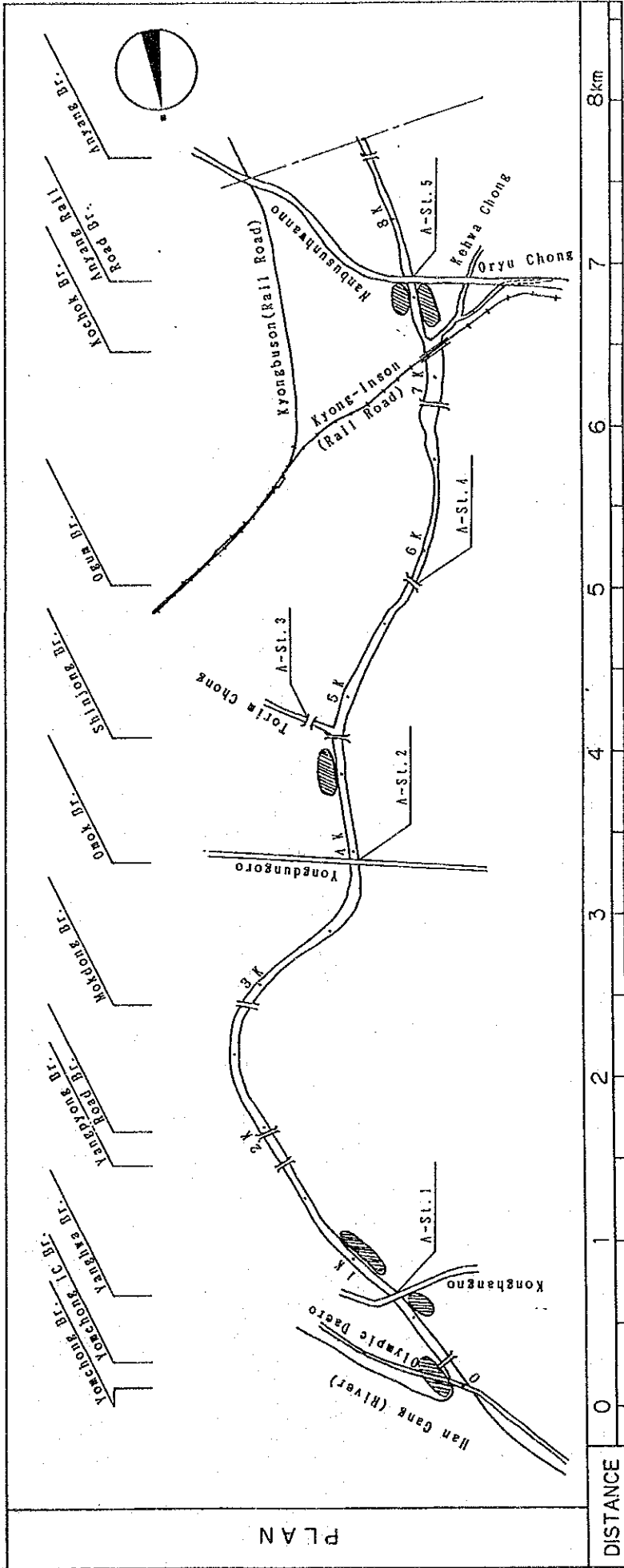
4) 計算上越流する地点図

・	安	養	川
・	良	才	川
・	牛	耳	川
・	貞	陵	川

計算上越流する地点

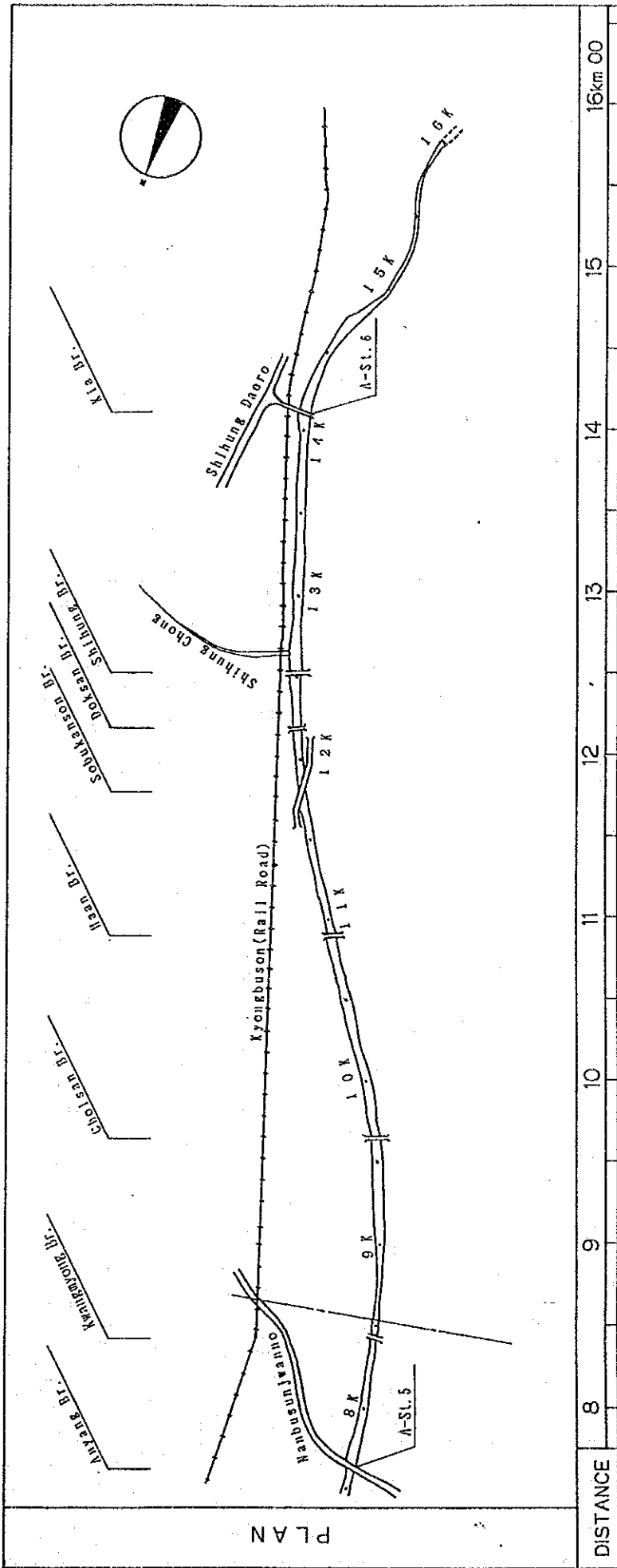


安 蘇 川



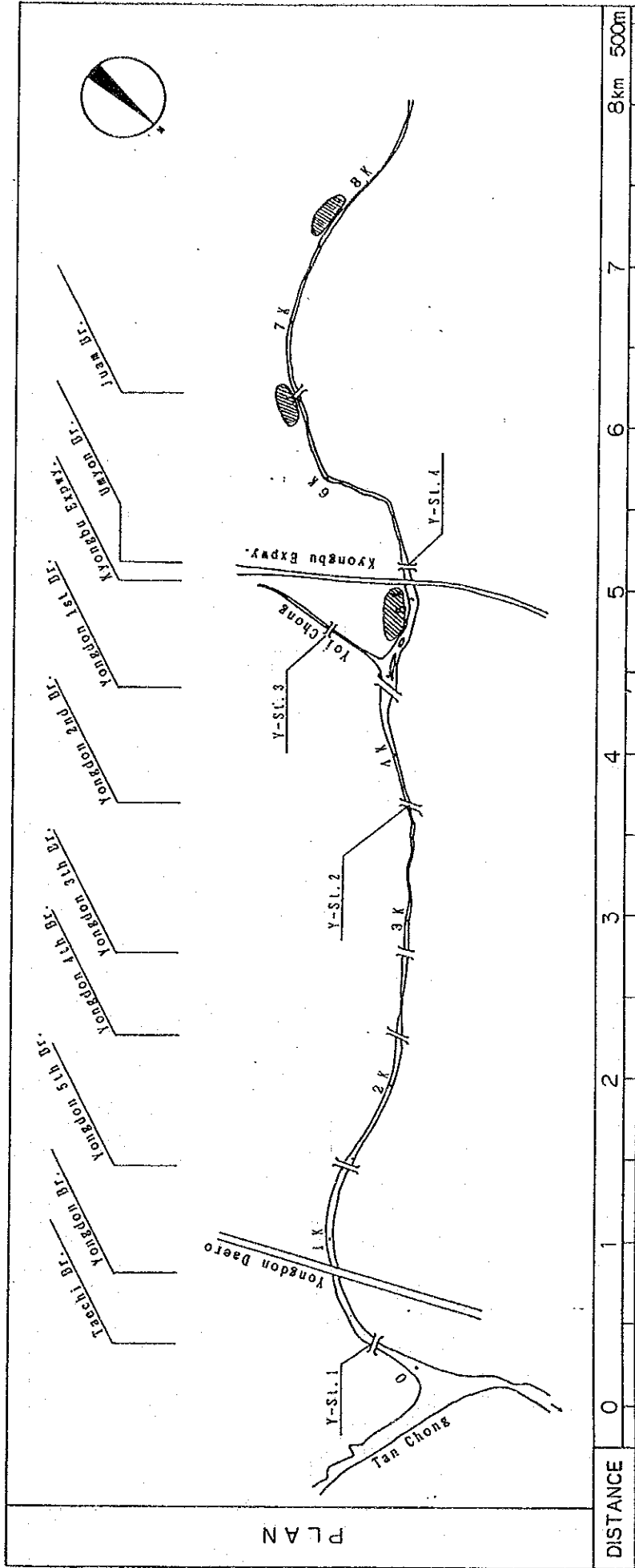
(2)

計算上越流する地点... 各種の調査結果より、本河は上流より下流へ向かって、右岸に流れて、左岸に流れる。このため、右岸に流れる場合は、左岸に流れる場合に比べて、計算上の越流する地点は、右岸に流れる場合である。

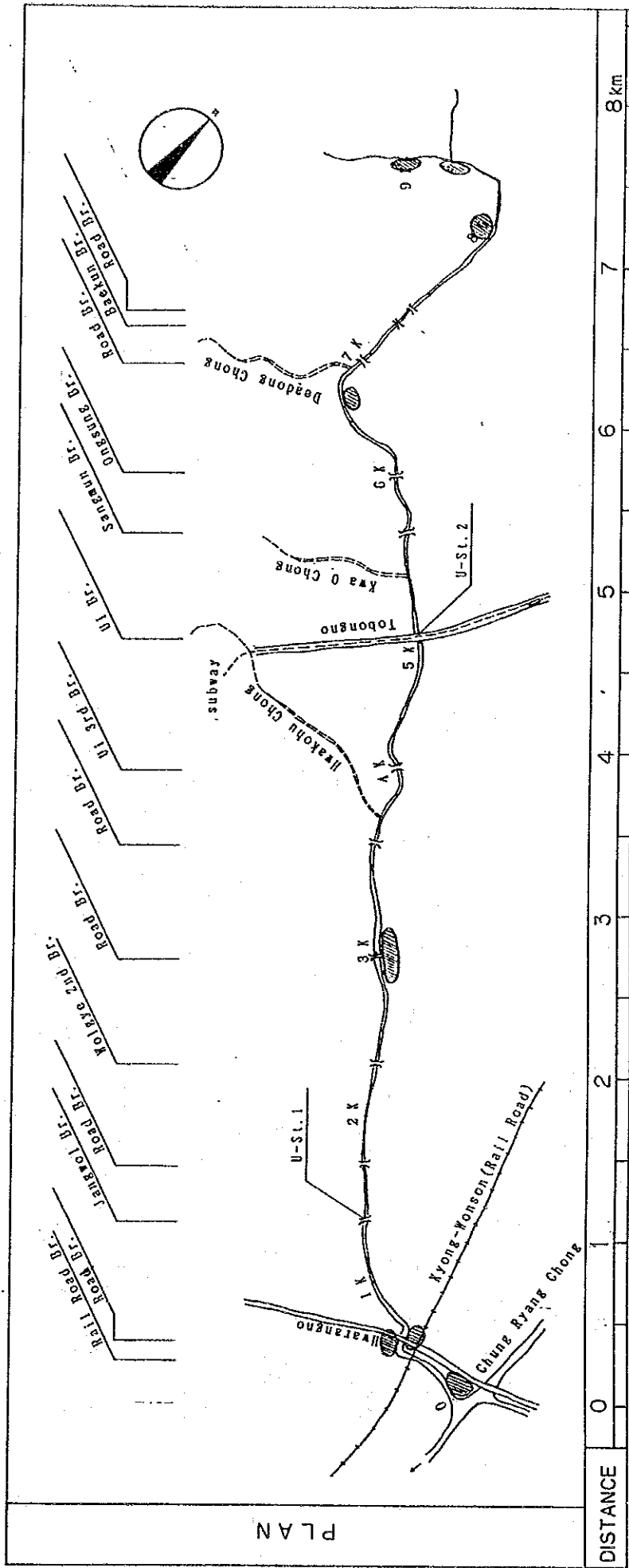


PLAN

段 才 川

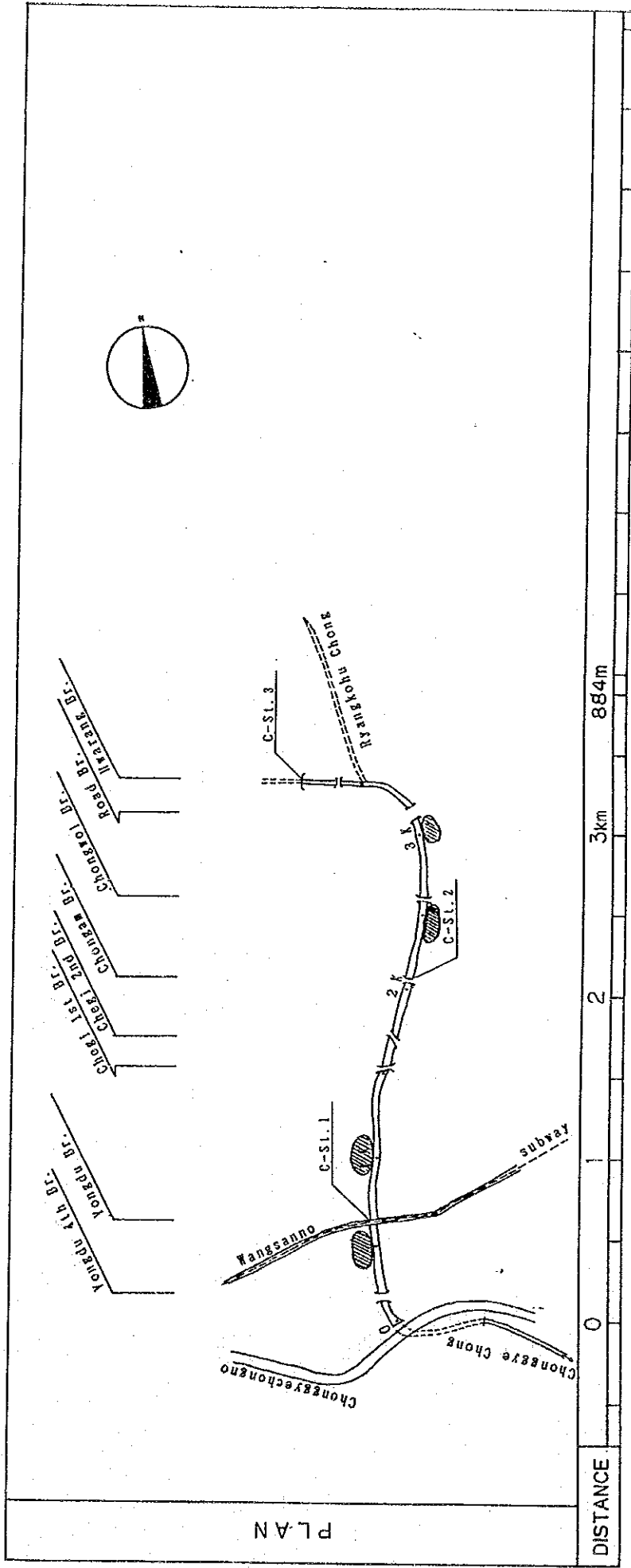


PLAN



PLAN

9km 543m



PLAN

JICA