

HOUR AND CLASS TRAFFIC COUNT

Province _____










Point No. _____

Exact Location _____

Day _____

Date _____

Sheet No. _____

Hour	LIGHT VEHICLES			HEAVY VEHICLES				OTHER
	CARS	M/C		LORRIES	BUSES			
Night	(Cars, Vanettes, Landrovers etc. including those with trailers and caravans)	(Motor-cycles & Scooters)		Two-axled	3 or more axles	With trailer (any number of axles)	(Excluding Kombs and Minibuses)	Graders, etc.
E.g.	  							
1800 to 1900	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
1900 to 2000	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
2000 to 2100	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
2100 to 2200	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
2200 to 2300	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
2300 to 2400	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
0000 to 0100	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
0100 to 0200	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
0200 to 0300	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
0300 to 0400	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
0400 to 0500	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
0500 to 0600	1 8 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91 96	1 8 11 16		1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8 11 16 21 26 31 36	1 8
Totals								

Special Classes or Hourly Totals (Leave blank unless specially instructed)

TOTAL LIGHT VEHICLES

TOTAL HEAVY VEHICLES

TOTAL ALL VEHICLES

PROVINCE..... CLASSIFIED TRAFFIC COUNT ROHQ/72/2

POINT NO. LOCATION..... DAY..... DATE..... SHEET NO.

VEHICLE TYPE	DAY		NIGHT		0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	TOTAL	
	0600	0700	1800	1900	2000	2100	2200	2300	2400	0100	0200	0300	0400	0500	0600	0700	0800		
PASSENGER CAR																			
SMALL VAN / PICK UP																			
LARGE VAN / LANDROVER / CARAVAN																			
LORRY, TWO AXLED																			
LORRY, THREE AXLED																			
LORRY-DRAW BAR TRAILER																			
HORSE • SEMI TRAILER																			
HORSE/LORRY-TWO TRAILERS																			
BUS																			
GRADER, TRACTOR, ETC.																			
TOTAL																			

Appendix 3-5 (1/4)

Table 3.5-A Future O-D Table (Passenger Cars 1992)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
(1)	0	0	5	0	1	240	0	0	0	0	0	0	0	0	0
(2)	0	0	0	0	0	95	0	0	0	0	0	0	0	0	0
(3)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
(4)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
(5)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(6)	303	92	1	1	0	0	0	1	1	0	12	0	0	0	0
(7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(8)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
(9)	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
(10)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(11)	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0
(12)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(13)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
(14)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
(15)	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
(16)	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(17)	9	0	0	0	0	0	0	0	7	0	2	0	0	0	0
(18)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(19)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(20)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(21)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(22)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(23)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(24)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(25)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
TOTAL	317	92	7	1	1	361	0	1	8	0	15	0	0	0	0

	16	17	18	19	20	21	22	23	24	25	TOTAL
(1)	0	7	0	0	0	0	0	1	0	0	254
(2)	0	0	0	0	0	0	0	0	0	0	95
(3)	0	0	0	0	0	0	0	0	0	0	1
(4)	0	0	0	0	0	0	0	0	0	0	1
(5)	0	1	0	0	0	0	0	0	0	0	2
(6)	0	0	0	0	0	0	0	0	0	0	411
(7)	0	1	0	0	0	0	0	0	0	0	1
(8)	0	0	0	0	0	0	0	0	0	0	2
(9)	0	0	0	0	0	0	0	0	0	0	5
(10)	0	0	0	0	0	0	0	0	0	0	0
(11)	0	2	0	0	0	0	0	1	0	0	14
(12)	0	0	0	0	0	0	0	0	0	0	1
(13)	0	0	0	0	0	0	0	0	0	0	1
(14)	0	0	0	0	0	0	0	0	0	0	2
(15)	0	0	0	0	0	0	0	0	0	0	4
(16)	0	0	0	2	0	0	0	0	0	0	4
(17)	0	0	0	8	0	0	0	0	0	0	26
(18)	0	0	0	0	0	0	0	0	0	0	0
(19)	0	1	0	0	0	0	0	0	0	0	1
(20)	0	0	0	0	0	0	0	0	0	0	0
(21)	0	1	0	0	0	0	0	0	0	0	1
(22)	0	0	0	0	0	0	0	0	0	0	0
(23)	0	0	0	4	0	0	0	0	0	0	5
(24)	0	0	0	0	0	0	0	0	0	0	0
(25)	0	0	0	1	0	0	0	0	0	0	2
TOTAL	0	13	0	15	0	0	0	2	0	0	833

Appendix 3-5 (2/4)

Table 3.5-B Future O-D Table (Truck/Lorry 1992)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
(1)	0	0	0	0	4	124	0	0	0	0	0	0	1	0	0
(2)	1	0	0	0	0	32	0	0	0	0	0	0	0	0	0
(3)	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(6)	111	30	1	0	0	0	0	0	3	0	5	0	0	1	1
(7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(9)	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
(10)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(11)	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
(12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(13)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(14)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(15)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(16)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(17)	6	0	0	0	0	0	0	0	0	0	3	0	0	0	0
(18)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(19)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(20)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(21)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(22)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(23)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(24)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(25)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	124	30	1	0	4	167	0	0	3	0	8	0	1	1	1

	16	17	18	19	20	21	22	23	24	25	TOTAL
(1)	1	22	0	0	0	0	0	7	0	0	159
(2)	0	0	0	0	0	0	0	0	0	0	33
(3)	0	0	0	0	0	0	0	0	0	0	4
(4)	0	0	0	0	0	0	0	0	0	0	0
(5)	0	0	0	1	0	1	0	0	0	0	2
(6)	0	0	0	0	0	1	0	0	0	0	153
(7)	0	1	0	0	0	0	0	0	0	0	1
(8)	0	0	0	0	0	0	0	0	0	0	0
(9)	0	1	0	0	0	0	0	0	0	0	4
(10)	0	0	0	0	0	0	0	0	0	0	0
(11)	0	1	0	0	0	0	0	0	0	0	9
(12)	0	0	0	0	0	0	0	0	0	0	0
(13)	0	0	0	0	0	0	0	0	0	0	0
(14)	0	0	0	0	0	0	0	0	0	0	0
(15)	0	0	0	0	0	0	0	0	0	0	0
(16)	0	0	0	0	0	0	0	0	0	0	1
(17)	0	0	3	1	0	8	0	0	0	0	21
(18)	0	3	0	0	0	0	0	0	0	0	3
(19)	0	3	0	0	0	0	0	1	0	0	4
(20)	0	0	0	0	0	0	0	0	0	0	0
(21)	0	6	0	0	0	0	0	1	0	0	7
(22)	0	0	0	0	0	0	0	0	0	0	0
(23)	0	0	0	0	0	1	0	0	0	0	2
(24)	0	0	0	0	0	4	0	0	0	0	4
(25)	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	37	3	2	0	15	0	9	0	0	407

Appendix 3-5 (3/4)

Table 3.5-C Future 0-D Table (Passenger Cars 2000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
(1)	0	0	13	0	2	403	0	0	0	0	0	0	0	0	0
(2)	0	0	0	0	0	161	0	0	0	0	0	0	0	0	0
(3)	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
(4)	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
(5)	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(6)	509	157	0	2	0	0	0	2	1	0	18	0	0	0	0
(7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(8)	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
(9)	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
(10)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(11)	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0
(12)	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(13)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
(14)	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
(15)	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
(16)	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(17)	19	0	0	0	0	0	0	0	10	0	4	0	0	0	0
(18)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(19)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(20)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(21)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(22)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(23)	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(24)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(25)	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
TOTAL	542	157	15	2	2	604	0	2	11	0	24	0	0	0	0

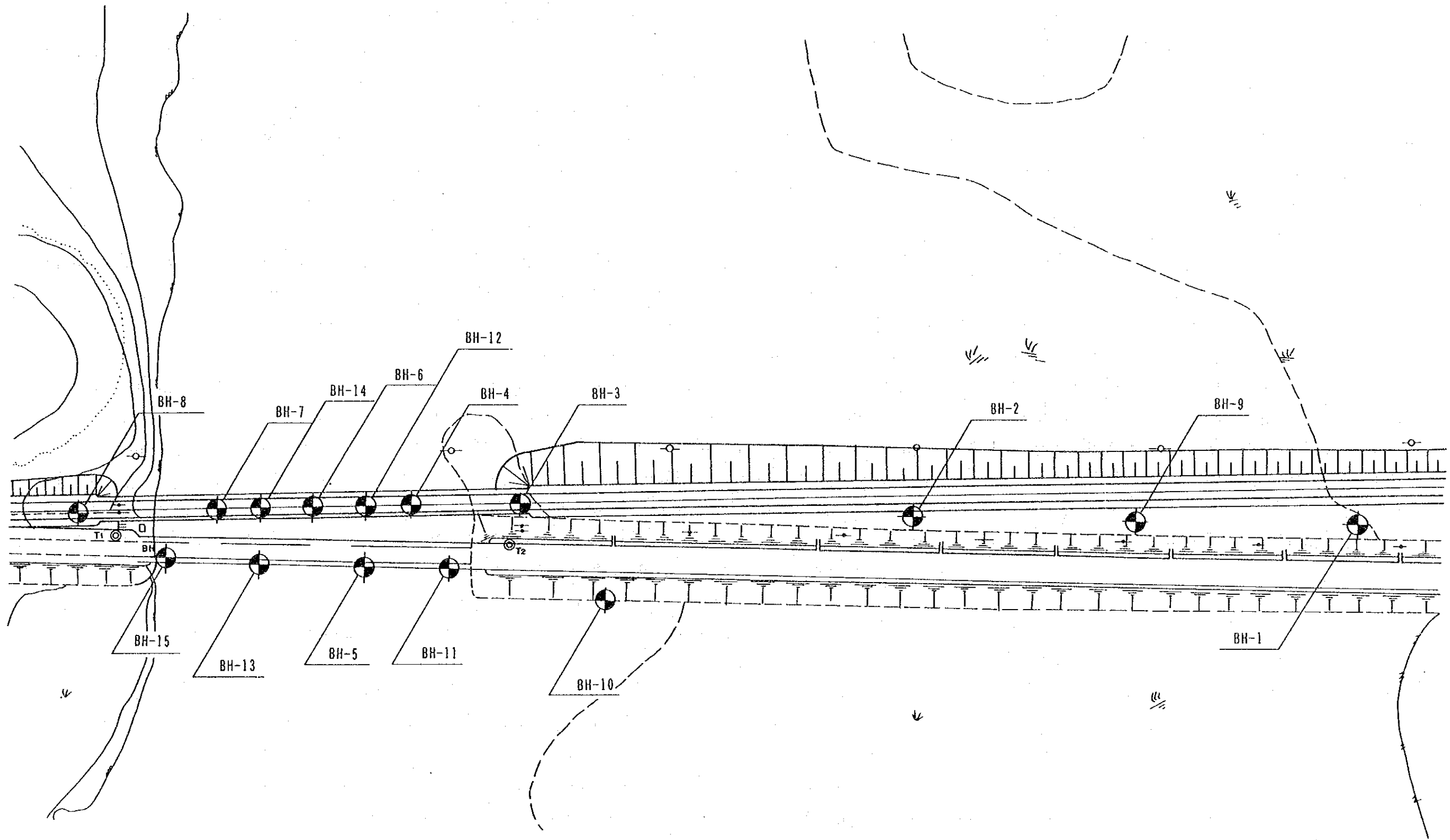
	16	17	18	19	20	21	22	23	24	25	TOTAL
(1)	0	13	0	0	0	0	0	2	0	0	433
(2)	0	0	0	0	0	0	0	0	0	0	161
(3)	0	0	0	0	0	0	0	0	0	0	2
(4)	0	0	0	0	0	0	0	0	0	0	2
(5)	0	0	0	0	0	0	0	0	0	0	4
(6)	0	0	0	0	0	0	0	0	0	0	689
(7)	0	2	0	0	0	0	0	0	0	0	2
(8)	0	0	0	0	0	0	0	0	0	0	3
(9)	0	0	0	0	0	0	0	0	0	0	8
(10)	0	0	0	0	0	0	0	0	0	0	0
(11)	0	4	0	0	0	0	0	2	0	0	23
(12)	0	0	0	0	0	0	0	0	0	0	2
(13)	0	0	0	0	0	0	0	0	0	0	1
(14)	0	0	0	0	0	0	0	0	0	0	3
(15)	0	0	0	0	0	0	0	0	0	0	6
(16)	0	0	0	4	0	9	0	0	0	0	10
(17)	0	0	0	11	0	0	0	0	0	0	44
(18)	0	0	0	0	0	0	0	0	0	0	0
(19)	0	2	0	0	0	0	0	0	0	0	2
(20)	0	0	0	0	0	0	0	0	0	0	0
(21)	0	2	0	0	0	0	0	0	0	0	2
(22)	0	0	0	0	0	0	0	0	0	0	0
(23)	0	0	0	6	0	0	0	0	0	0	8
(24)	0	0	0	0	0	0	0	0	0	0	0
(25)	0	0	0	2	0	0	0	0	0	0	4
TOTAL	0	23	0	23	0	0	0	4	0	0	1409

Appendix 3-5 (4/4)

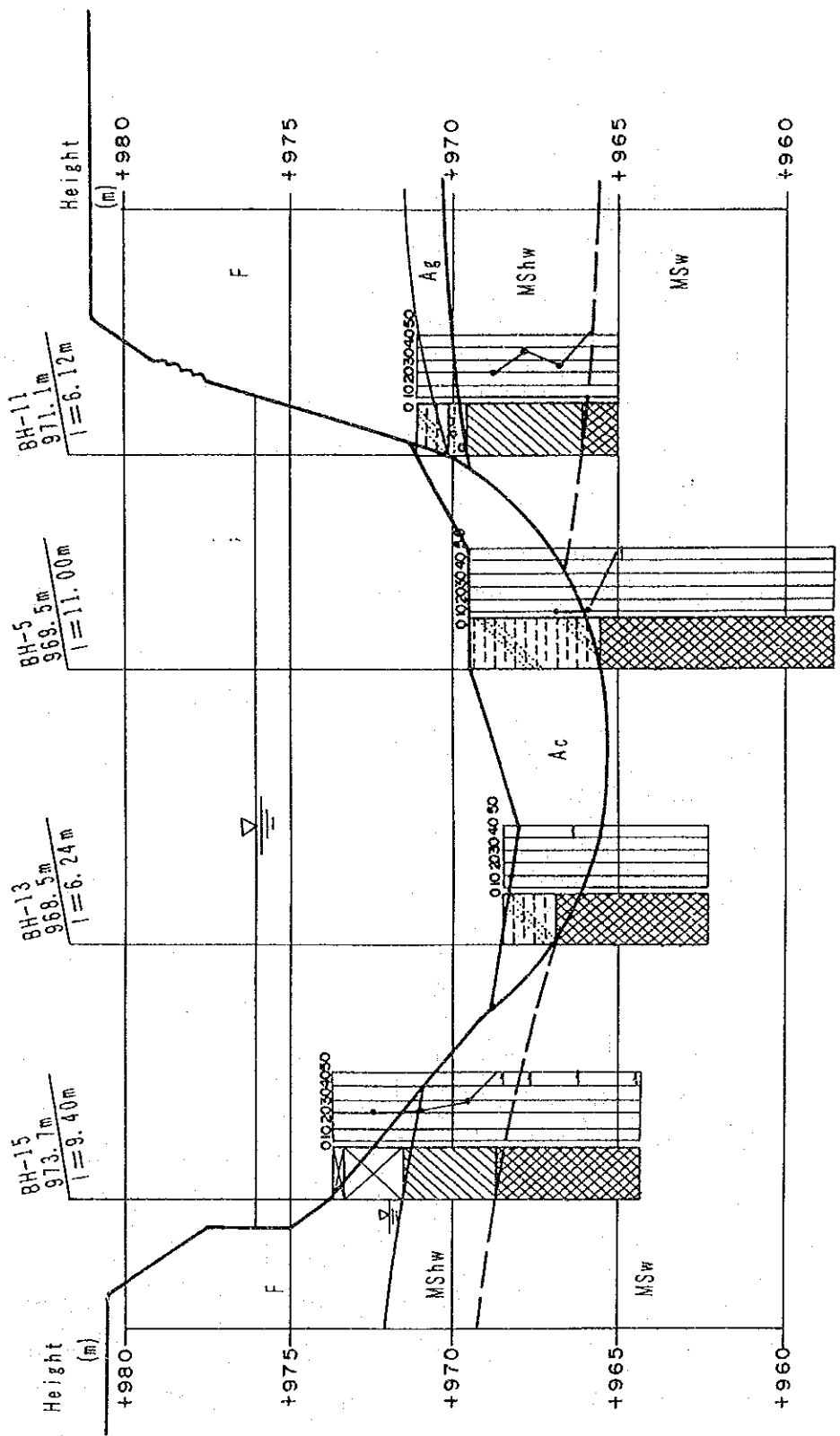
Table 3.5-D Future 0-D Table (Truck/Lorry 2000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
(1)	0	0	0	0	17	254	0	0	0	0	0	0	5	0	0
(2)	146	0	0	0	0	2	0	0	0	0	0	0	0	0	0
(3)	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(6)	129	80	3	0	0	0	0	0	6	0	3	0	0	1	1
(7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(9)	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
(10)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(11)	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0
(12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(13)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(14)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(15)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(16)	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(17)	42	0	0	0	0	0	0	0	0	0	13	0	0	0	0
(18)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(19)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(20)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(21)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(22)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(23)	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(24)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(25)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	341	80	3	0	17	274	0	0	6	0	16	0	5	1	1

	16	17	18	19	20	21	22	23	24	25	TOTAL
(1)	3	102	0	0	0	0	0	25	0	0	406
(2)	0	0	0	0	0	0	0	0	0	0	148
(3)	0	0	0	0	0	0	0	0	0	0	15
(4)	0	0	0	0	0	0	0	0	0	0	0
(5)	0	0	0	3	0	7	0	0	0	0	10
(6)	0	0	0	0	0	0	0	0	0	0	223
(7)	0	1	0	0	0	0	0	0	0	0	1
(8)	0	0	0	0	0	0	0	0	0	0	0
(9)	0	3	0	0	0	0	0	0	0	0	7
(10)	0	0	0	0	0	0	0	0	0	0	0
(11)	0	4	0	0	0	0	0	0	0	0	18
(12)	0	0	0	0	0	0	0	0	0	0	0
(13)	0	0	0	0	0	0	0	0	0	0	0
(14)	0	0	0	0	0	0	0	0	0	0	0
(15)	0	0	0	0	0	0	0	0	0	0	0
(16)	0	0	0	0	0	0	0	0	0	0	3
(17)	0	0	5	0	0	6	0	0	0	0	66
(18)	0	5	0	0	0	0	0	0	0	0	5
(19)	0	5	0	0	0	0	0	1	0	0	6
(20)	0	0	0	0	0	0	0	0	0	0	0
(21)	0	8	0	0	0	0	0	1	0	0	9
(22)	0	0	0	0	0	0	0	0	0	0	0
(23)	0	0	0	0	0	1	0	0	0	0	7
(24)	0	0	0	0	0	9	0	0	0	0	9
(25)	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	128	5	3	0	23	0	27	0	0	933



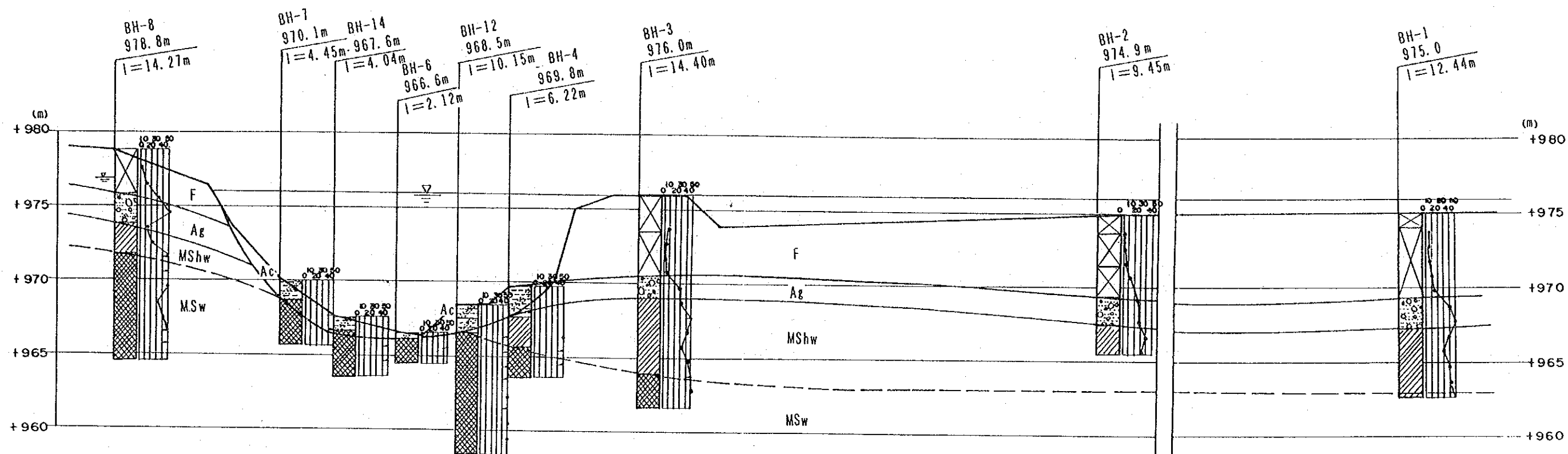
Appendix 4-1 LOCATION OF BOREHOLE



Legend

- F : Fill
- Ac : Alluvial Clay
- Ag : Alluvial Gravel
- MShw : Heavily Weathered Mudstone to Sandstone
- MSw : Weathered Mudstone to Sandstone

Appendix 4-2
 GROUND CONDITION
 ALONG EXISTING ALIGNMENT



Appendix 4-3
 GROUND CONDITION
 ALONG NEW ALIGNMENT

Legend
 F : Fill
 Ac : Alluvial Clay
 Ag : Alluvial Gravel
 MShw: Heavily Weathered Mudstone to Sandstone
 MSw : Weathered Mudstone to Sandstone
 Scale V=1:200
 H=1:1000

FIG DRILLING LOG

Project No. OS01-10 Project The Kolve Road Bridge Reconstruction Type of Drilling Percussion
 Hole Number BH-2 Elevation 974.90 m Date 24th Jan. - 31st Feb. 1990
 Water Table - m Driller Wade Adams

Remarks
 P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test					
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value	
												10	20	30	40	50
	974.90	0.00			Fill	Dark grey		Fine sandy silt with vegetation								
1	973.60	1.30	1.30		Fill	Dark grey	Very loose to loose	Poorly graded fine to medium grained sand	1.15	P-1	4	2	1	1		
2									1.45							
3									2.15	P-2	3	1	1	1		
4	971.40	3.50	2.20		Fill	Dark grey	Stiff	Sandy clay with white streaks.	2.45							
5									3.15	P-3	5	1	1	3		
6	969.40	5.50	2.00						3.45							
7					Sand and gravel	Yellowish grey	Fawnish grey	Gravel is quartz and subrounded (dia. 5 - 50mm)	4.15	P-4	11	1	2	8		
8	967.50	7.40	1.90						4.45							
9	965.45	9.45	2.05		Mudstone / Sandstone	Reddish purple		Heavily weathered and changed to clay	5.65	P-5	24	5	10	9		
10									5.95							
11									7.15	P-6	27	8	9	10		
12									7.45							
13									8.15	P-7	38	13	11	14		
14									8.45							
15									9.15	P-8	31	8	9	14		
16									9.45							
17																
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FIG DRILLING LOG

Project No. OS01-10 Project The Kofue Road Bridge Reconstruction Type of Drilling Percussion
 Hole Number BH-3 Elevation 976.00 m. Date 31st Jan. - 4th Feb. 1990
 Water Table - m. Driller Wade Adams

Remarks
 P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test					
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value	
												10	20	30	40	50
1	976.00	0.00			Fill	Dark grey	Loose	Very gravelly of upper 1m (dia. 7 - 50mm).								
2	973.50	2.50	2.50		Fill	Dark grey	Soft	Fine sandy clay with high water content.	2.15 2.45	P-1	6	2	2	2		
3					Fill	Dark grey	Soft	Fine sandy clay with high water content.	3.15 3.45	P-2	3	1	1	1		
4					Fill	Dark grey	Soft	Fine sandy clay with high water content.	4.15 4.45	P-3	3	1	1	1		
5	970.50	5.50	3.00		Fill	Dark grey	Soft	Fine sandy clay with high water content.	5.15 5.45	P-4	4	1	1	2		
6					Sand and gravel	Dark grey	Medium	Sand is fine to coarse with some silt. Gravel is silica (dia. 5 - 50mm).	6.15 6.45	P-5	28	5	9	14		
7	969.00	7.00	1.50		Mudstone / Sandstone I	Reddish purple		Heavily weathered and changed to stiff clay with low water content. Partly with white streaks.	7.15 7.45	P-6	30	6	8	16		
8					Mudstone / Sandstone I	Reddish purple		Heavily weathered and changed to stiff clay with low water content. Partly with white streaks.	8.15 8.44	P-7	50/29	17	17	16/9	50	Blows/25cm
9					Mudstone / Sandstone I	Reddish purple		Heavily weathered and changed to stiff clay with low water content. Partly with white streaks.	9.15 9.45	P-8	41	11	14	16		
10					Mudstone / Sandstone I	Reddish purple		Heavily weathered and changed to stiff clay with low water content. Partly with white streaks.	10.15 10.45	P-9	32	7	9	16		
11					Mudstone / Sandstone I	Reddish purple		Heavily weathered and changed to stiff clay with low water content. Partly with white streaks.	11.15 11.45	P-10	44	13	15	16		
12	964.00	12.00	5.00		Mudstone / Sandstone II	Reddish purple to light brown		Moderately weathered. Becomes lighter grey with depth.	12.15 12.40	P-11	50/29	17	23	10/5	50	Blows/25cm
13					Mudstone / Sandstone II	Reddish purple to light brown		Moderately weathered. Becomes lighter grey with depth.	13.15 13.45	P-12	50	14	17	19	50	Blows/30cm
14	962.00	14.00	2.00		Mudstone / Sandstone II	Reddish purple to light brown		Moderately weathered. Becomes lighter grey with depth.	14.15	P-13	50/29	18	20	12/3	50	Blows/25cm
15								-END OF DRILLING-								
16																
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FIG DRILLING LOG

Project No. OS01-10 Project The Kotue Road Bridge Reconstruction Type of Drilling Rotary
 Hole Number BH-6 Elevation 966.6 m. Date 1st Feb. 1990
 Water Table - m Driller Zimfranki

Remarks
 P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m.	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value					
												10 cm	10 cm	10 cm	10	20	30	40	50	
	966.60	0.00																		
	966.10	0.50	0.50	*	Sandy silt	Dark grey	Very soft	Floating mud												
1					Mudstone			Moderately weathered Slightly lullaceous. RQD = 20-90%	1.00	P-1	50	50								50BLOWS/30CM
2	964.48	2.12	1.62		Sandstone II				2.00	P-2	50/12	50/12								50BLOWS/30CM
								-END OF DRILLING-	2.12											
3																				
4																				
5																				
6																				
7																				
8																				
9																				
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FIG DRILLING LOG

Project No. OS01-10 Project The Kotur Road Bridge Reconstruction Type of Drilling Percussion
 Hole Number BH-6 Elevation 978.8 m Date 6th - 18th Feb. 1990
 Water Table -2.0 m Driller Wade Adams

Remarks
 P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value				
											10 cm	10 cm	10 cm	10	20	30	40	50	
	978.80	0.00																	
1				X	Fill	Brown to brownish grey	Medium to stiff	Silly clay with fine gravel (dia. <5mm). With slight odor of organic soil.	1.15	P-1	6	1	1	4					
2									2.15	P-2	11	3	4	4					
3	975.80	3.00	3.00	•••••	Sand and gravel	brownish grey	Dense to very dense	Sand is fine to coarse grained. Gravel is subangular (dia. 2 - 20mm).	3.15	P-3	30	3	8	19					
4									3.45										
5	973.80	5.00	2.00	/ / / / /	Mudstone / Sandstone I	Light brown to light grey		Heavily weathered and changed to clay	4.15	P-4	50	15	21	14					
6									5.15	P-5	11	3	3	5					
7	971.80	7.00	2.00	/ / / / /	Mudstone / Sandstone II	Light grey to bluish grey to reddish purple		Tuffaceous, argillaceous and fine grained sandstone is predominant.	5.45	P-6	20	4	6	10					
8									6.15										
9									6.45	P-7	50/18	19	31	8					
10									7.15										
11									7.33	P-8	50/25	24	19	7/5					
12									8.15										
13									8.40	P-9	47	11	15	21					
14	964.53	14.27	7.27	/ / / / /					9.15										
15									9.45	P-10	31	8	10	13					
16									10.15										
17									10.45	P-11	42	9	15	18					
18									11.15										
19									11.45	P-12	50/15	31	19	6					
20									12.15										
21									12.50	P-13	50/19	23	27	8					
22									13.00										
23									13.19	P-14	50/12	39	11	7					
24									14.15										
25									14.27										
26																			
27																			
28																			
29																			
30																			
31																			

FIG DRILLING LOG

Project No. OS01-10 Project The Kofu Road Bridge Reconstruction Type of Drilling Percussion

Hole Number BH-9 Elevation 975.0 m. Date 15th - 20th Feb. 1990

Water Table _____ m. Driller Wade Adams

Remarks
P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test						
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value		
												10	20	30	40	50	
	975.0	0.00			Fill	Dark grey	Medium to very stiff	Silly Clay with low water content and low plasticity.									
1									1.15	P-1	5	1	1	3			
2									1.45								
3									2.15	P-2	6	1	2	3			
4									2.45								
5									3.15	P-3	7	2	2	3			
6									3.45								
7									4.15	P-4	15	4	5	6			
8									4.45								
9									5.15	P-5	23	6	8	9			
10	969.0	6.00	6.00		Mudstone / Sandstone I	Brownish grey to reddish brown		Heavily weathered and changed to soil	5.45								
11									6.15	P-6	36	5	13	18			
12									6.45								
13									7.15	P-7	34	9	11	14			
14									7.45								
15									8.15	P-8	35	11	11	13			
16									8.45								
17									9.15	P-9	42	11	12	19			
18									9.45								
19									10.15	P-10	50/22/20	27	3/2				50BLOWS/22CM
20									10.37								
21									11.15	P-11	50/24/21	21	8/4				50BLOWS/24CM
22									11.39								
23									12.15	P-12	50/18	29/21/8					50BLOWS/18CM
24									12.33								
25									13.15	P-13	50/23/21	23	6/3				50BLOWS/23CM
26									13.38								
27									14.15	P-14	50/18	24/26/8					50BLOWS/18CM
28									14.33								
29																	
30																	
31																	

FIG DRILLING LOG

Project No. OS01-10 Project The Kofu Road Bridge Reconstruction Type of Drilling Rotary
 Hole Number BH-10 Elevation 976.0 m. Date 28 Feb. - 2nd May, 1990
 Water Table - m. Driller Zimronki

Remarks
 P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value				
									10	20	30	40	50						
	976.00	0.00																	
1																			
2																			
3																			
4																			
5																			
6	970.50	5.50	5.50		Gravel	Brownish grey	Medium to dense	Poorly graded, subrounded and hard gravel	5.15 5.45	P-1	40	11	18	11					
7	969.50	6.50	1.00		Mudstone / Sandstone I	Reddish purple		Tulloseous and argillaceous mudstone is predominant.	7.50 7.70	P-2	50/20	40/10	10/5						50 BLOWS / 20 CM
8	968.50	7.50	1.00		Mudstone / Sandstone II	Reddish purple		Moderately weathered mudstone. ROD=0-10%	8.50 8.65	P-3	50/15	50/15	15						50 BLOWS / 15 CM
9	967.35	8.65	1.15																
10								-END OF DRILLING-											
11																			
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FIG DRILLING LOG

Project No. OS01-10 Project The Kafue Road Bridge Reconstruction Type of Drilling Rotary
 Hole Number BH-11 Elevation 971.1 m. Date 15th Feb. 1990
 Water Table - m. Driller Zimfronki

Remarks
 P : Standard Penetration Test

Scale in M	Elevation in M	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value				
											10 cm	10 cm	10 cm	10	20	30	40	50	
	971.10	0.00																	
1	970.10	1.00	1.00	x x x x	Sandy sil	Dark grey	(Very soft)	floating mud											
2	969.60	1.50	0.50	Sand and gravel	Dark grey		Gravel is rounded (dia. max=50mm).											
3				/ / / / /	Mudstone / Sandstone I	Reddish purple to light grey		Heavily weathered and changed to soil.	2.15	P-1	18	5	5	8					
4				/ / / / /	Mudstone / Sandstone I	Reddish purple to light grey			3.15	P-2	36	10	12	14					
5	966.10	5.00	3.50	/ / / / /	Mudstone / Sandstone I	Reddish purple to light grey			4.15	P-3	25	4	5	16					
6	964.98	6.12	1.12	x x x x	Mudstone / Sandstone II	Reddish purple		Moderately weathered. ROU = 0%	5.15	P-4	40/26	18	19	13/8					50 BLOW/25 CM
7								-END OF DRILLING-	6.00	P-5	50/12	50	12						50 BLOW/12 CM
8									6.12										
9																			
10																			
11																			
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FIG DRILLING LOG

Project No. OS01-10 Project The Kafue Road Bridge Reconstruction Type of Drilling Rotary
 Hole Number 0H-12 Elevation 968.5 m Date 12th to 14th Feb. 1990
 Water Table _____ m. Driller Zimbenki

Remarks
 P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value				
											10 cm	10 cm	10 cm	10	20	30	40	50	
	968.50	0.00																	
1	967.60	0.90	0.90	x x x x	Sandy silt	Dark grey	(Very soft)	Floating mud											
2	966.60	1.90	1.00	x	Silty sand	Dark grey	(Very loose)	Sand is fine grained											
3					Mudstone Sandstone II	Light grey to reddish purple		Moderately weathered and changed to soils. RQD = 0%	2.95	P-1	50/22	15	20/7						50BLOWS/27CM
4									3.33	P-2	50/28	18	15/8						50BLOWS/28CM
5									4.90	P-3	50/23	18	14/5						50BLOWS/25CM
6									4.90	P-4	50/29	21	29/14						50BLOWS/29CM
7									6.05	P-5	50	14	25/11						50BLOWS/30CM
8									6.35	P-6	50/26	24	26/11						50BLOWS/25CM
9									6.90	P-7	50/30	24	26/15						50BLOWS/30CM
10	958.35	10.15	8.25						8.90	P-8	50/25	25	25						50BLOWS/25CM
11								-END OF DRILLING-	9.90	P-9	50/25	35	15						50BLOWS/25CM
12									10.15										
13																			
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FIG DRILLING LOG

Project No. OS01-10 Project The Kofu Road Bridge Reconstruction Type of Drilling Rotary
 Hole Number BH-14 Elevation 967.6 m. Date 11th - 12th Feb. 1990
 Water Table m. Driller Zimfronki

Remarks
 P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value					
	967.60	0.00																		
1	965.70	0.90	0.90	x x x x	Sandy silt	Dark grey	(Very soft)	Flooding mud												
2	966.30	1.30	0.40	x x x x	Sand and gravel with clay	Light grey		Gravel is rounded (dia. 30mm)	1.90	P-1	50	50								
3				x x x x	Mudstone / Sandstone II			Tuffaceous, argillaceous and fine grained sandstone. ROD = 10-25%	2.90	P-2	50/15	50/15								
4	963.56	4.04	2.74	x x x x					3.05											
5								-END OF DRILLING-	3.90	P-3	50/13	50/13								
6									4.03											
7																				
8																				
9																				
10																				
11																				
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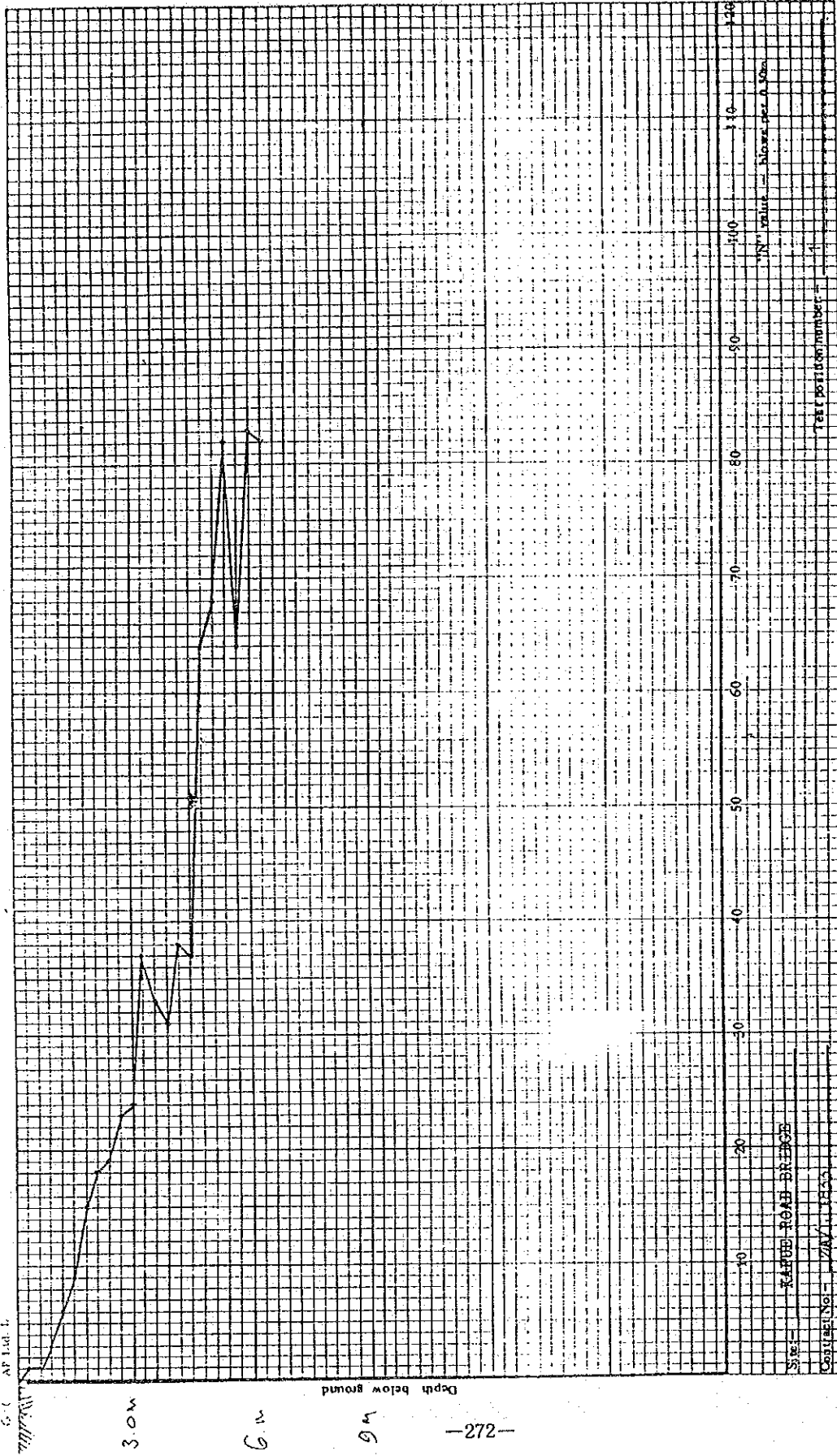
FIG DRILLING LOG

Project No. 0501-10 Project The Kalu Road Bridge Reconstruction Type of Drilling Rotary
 Hole Number BH-15 Elevation 973.7 m. Date 9th - 10th Feb. 1990
 Water Table _____ m. Driller Zimfranki

Remarks
 P : Standard Penetration Test

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 10cm			N - Value					
												10 cm	10 cm	10 cm	10	20	30	40	50	
	973.70	0.00																		
1	973.30	0.40	0.40	X	Fill	Dark grey	(Very soft)	Sandy clay												
2				X	Fill	Yellowish grey	Medium	Boulder (dia. 100mm) and rounded gravel (dia. 10 - 40mm) with coarse sand	1.15 1.45	P-1	19	6	6	7						
3	971.50	2.20	1.80	/	Mudstone / Sandstone I	Light brown		Heavily weathered and changed to clay	2.65 2.95	P-2	20	6	7	7						
4				/	Mudstone / Sandstone I	Light brown		Heavily weathered and changed to clay	3.95 4.25	P-3	27	6	6	15						
5	968.70	5.00	2.80	/	Mudstone / Sandstone II	Light grey to pale yellow		Tuffaceous, argillaceous and fine grained sandstone. Partially changed to clay. ROD = 5-15%	5.15 5.31	P-4	50/16	18	32	5						50 BLOWS / 10 CM
6				/	Mudstone / Sandstone II	Light grey to pale yellow		Tuffaceous, argillaceous and fine grained sandstone. Partially changed to clay. ROD = 5-15%	6.00 6.12	P-5	50/12	50	12							50 BLOWS / 10 CM
7				/	Mudstone / Sandstone II	Light grey to pale yellow		Tuffaceous, argillaceous and fine grained sandstone. Partially changed to clay. ROD = 5-15%	7.50 7.60	P-6	50	50								50 BLOWS / 30 CM
9	964.30	9.40	4.40	/	Mudstone / Sandstone II	Light grey to pale yellow		Tuffaceous, argillaceous and fine grained sandstone. Partially changed to clay. ROD = 5-15%	9.15 9.40	P-7	50/25	20	10	5						50 BLOWS / 25 CM
10								-END OF DRILLING-												
11																				
12																				
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APPENDIX 4-5 Penetrometer Test Record



G.L. AP L.M.L.



Site - KATON ROAD BRIDGE

Contract No. - 27/1/635

Test position number - 2

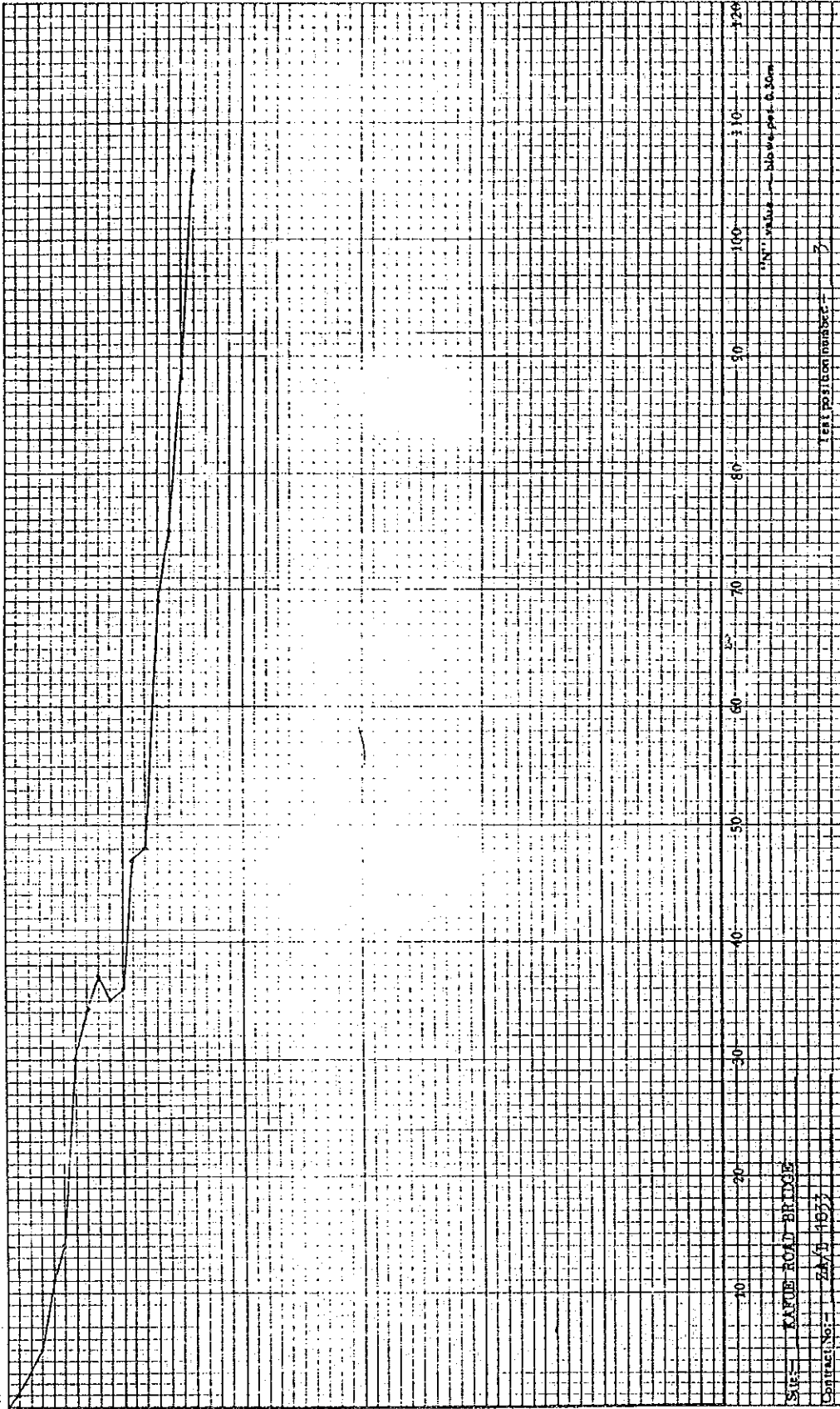
Scale - 1 unit = 0.30mm

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

Date 2ND MARCH 1990

G.L. AP Ltd. L



SITE - KAYOE ROAD BRIDGE

Contract No. ZA/1-1157

TEST POSITION NUMBER - 7

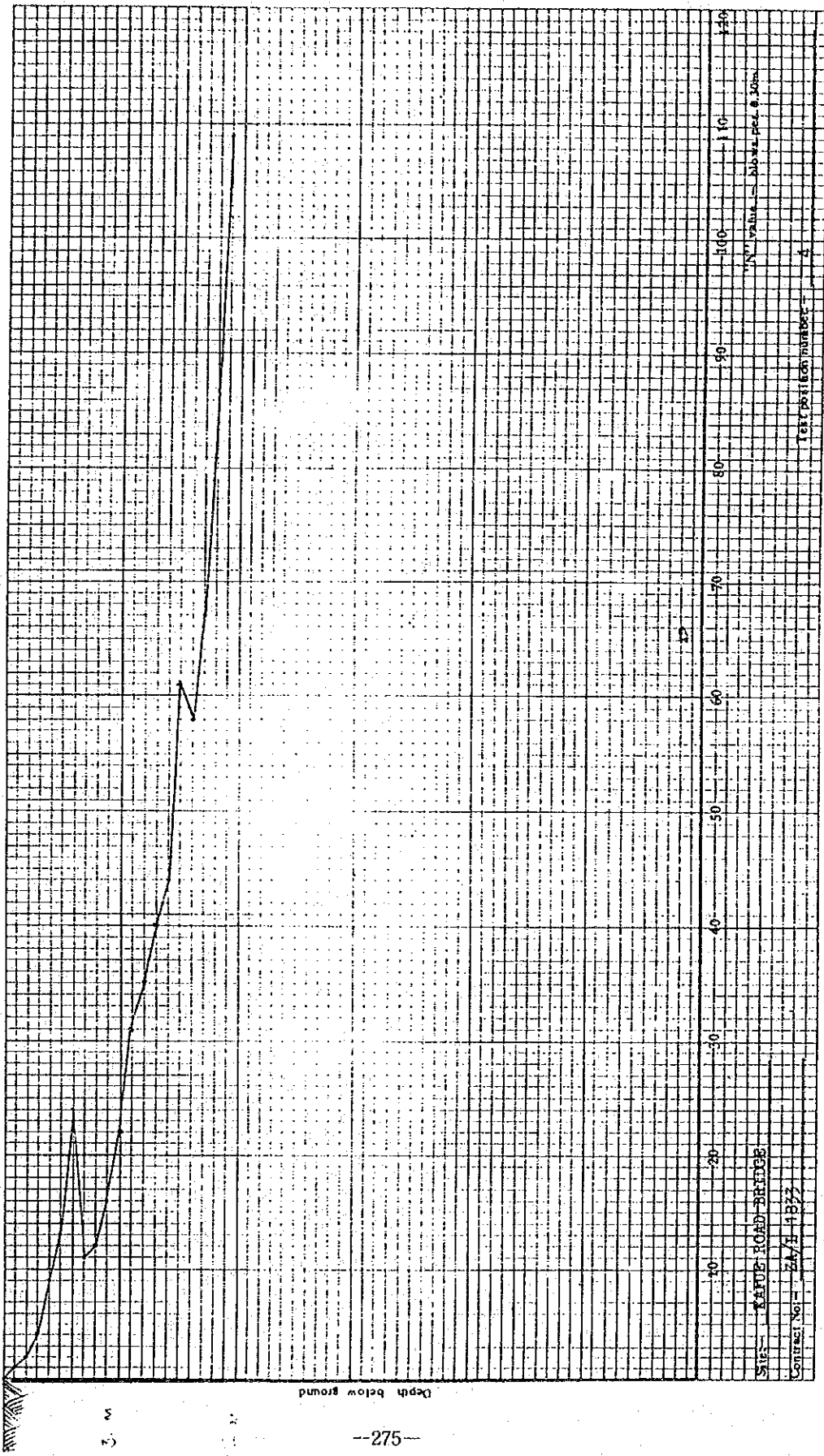
TEST VALUE - 6.30cm

Date 2ND MARCH 1990

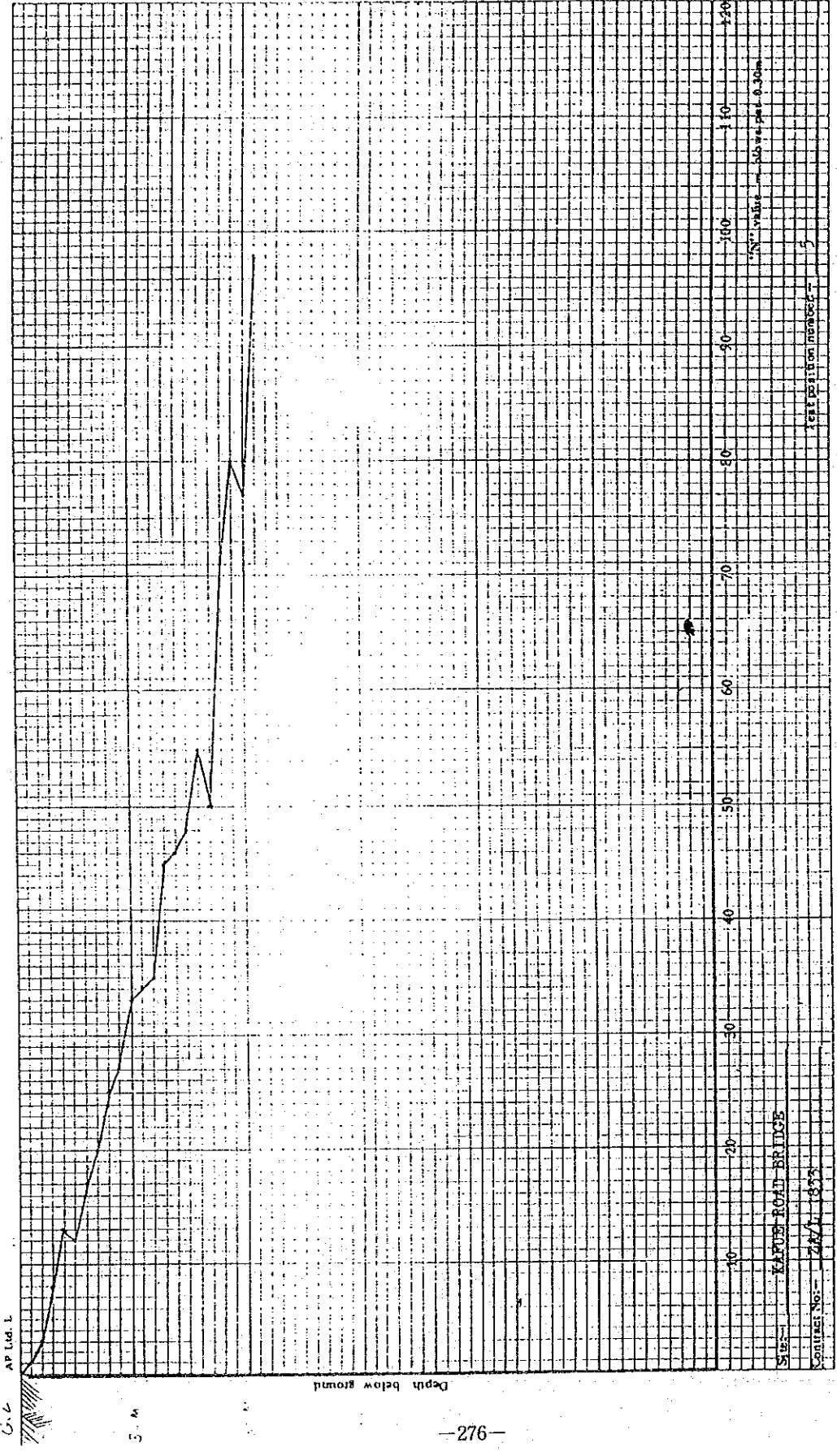
PENETROMETER TEST REPORT

WADE ADAMS PILING AND FOUNDATIONS LTD.

6-1 AP Lub. L



SITE - SAPEL ROAD BRIDGE
 Contract No. - ZAVI H 852
 TEST POSITION NUMBER - 4
 Date 2ND MARCH 1990
 PENETROMETER TEST REPORT
 WADE ADAMS PILING AND FOUNDATIONS LTD.



AP Ltd. L

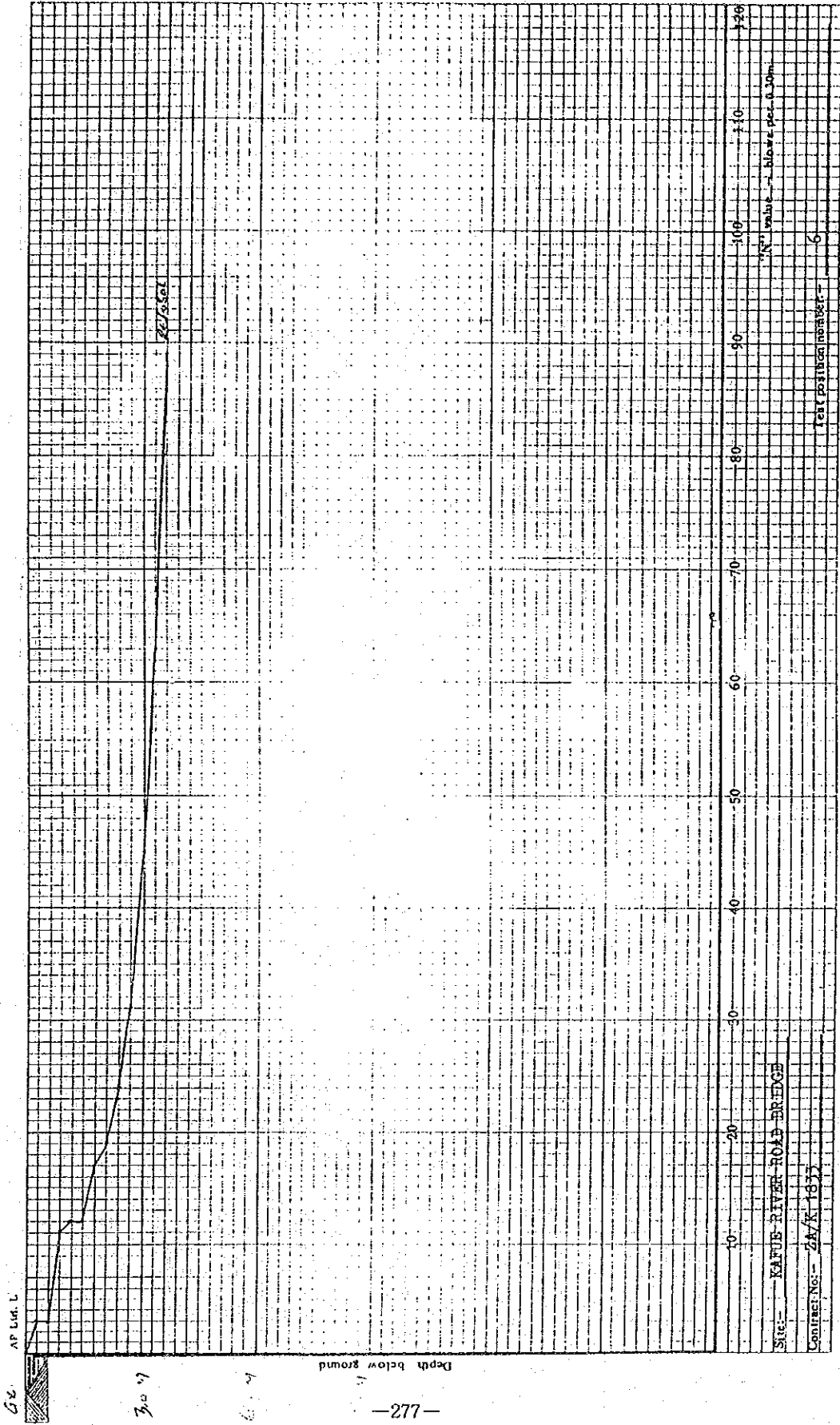
Depth below ground

Scale: No. — 24/1 — 1892

test position number — 5

Site — KAPUR ROAD BRIDGE

WADE ADAMS PILING AND FOUNDATIONS LTD. PENETROMETER TEST REPORT Date 2ND MARCH 1990

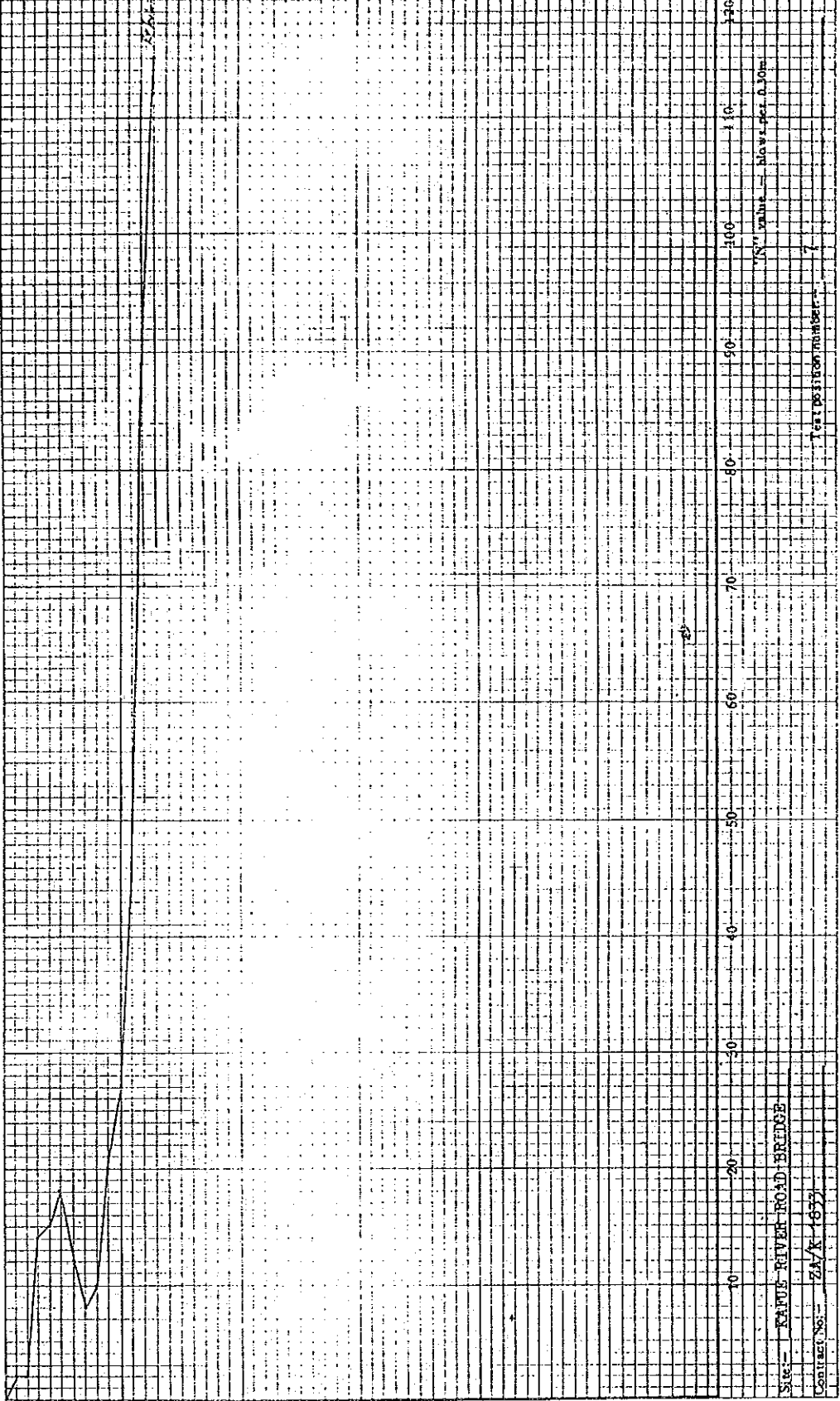


WADE ADAMS PILING AND FOUNDATIONS LTD. Date 2ND FEBRUARY 1990

PENETROMETER TEST REPORT

62.

AP LIT. L



Site - KANE RIVER ROAD BRIDGE

Contact No. - ZA/K-1877

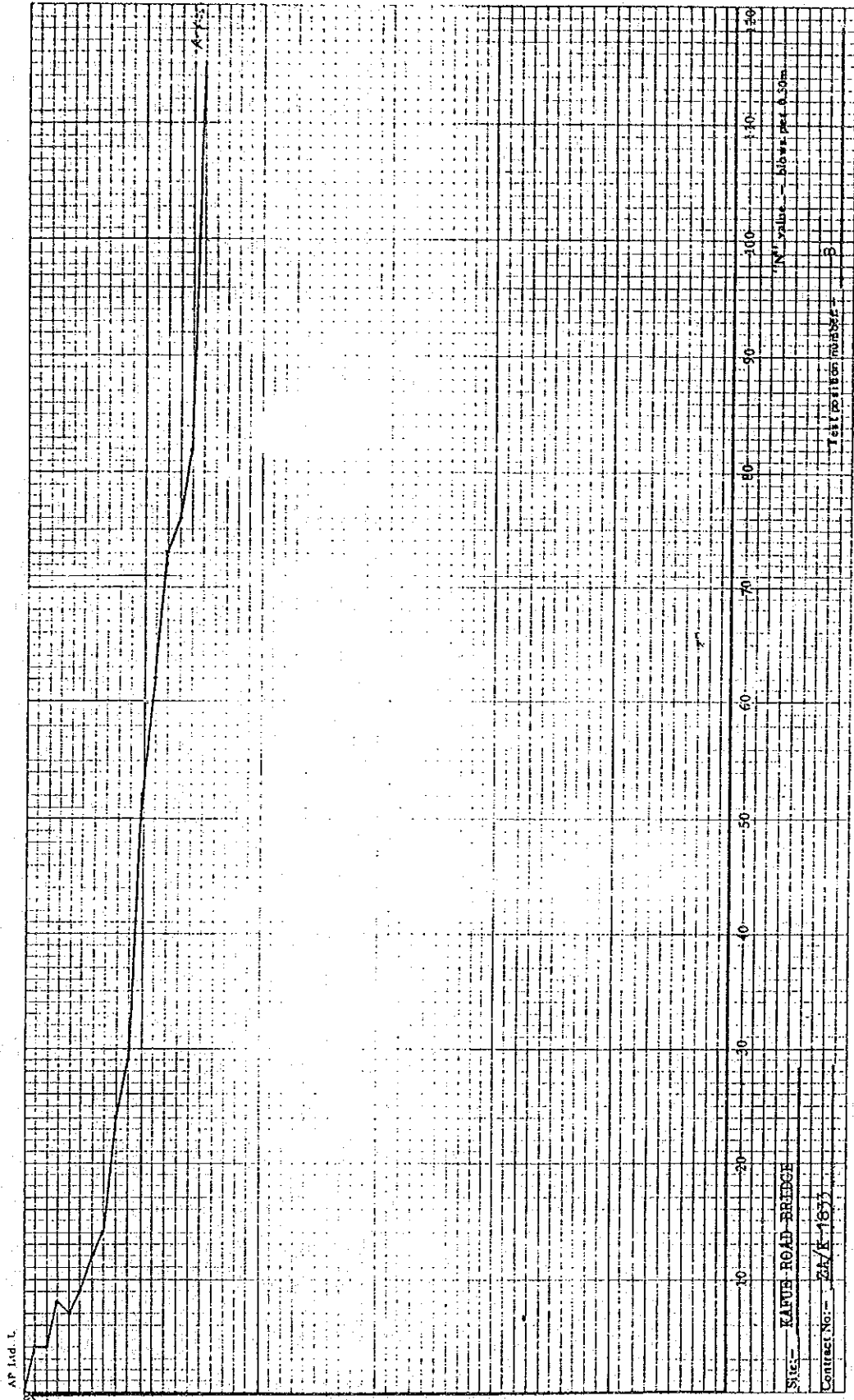
Test Position Number - 7

UN' value - blow per 30cm

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

Date 2ND MARCH 1990



WADE ADAMS PILING AND FOUNDATIONS LTD.

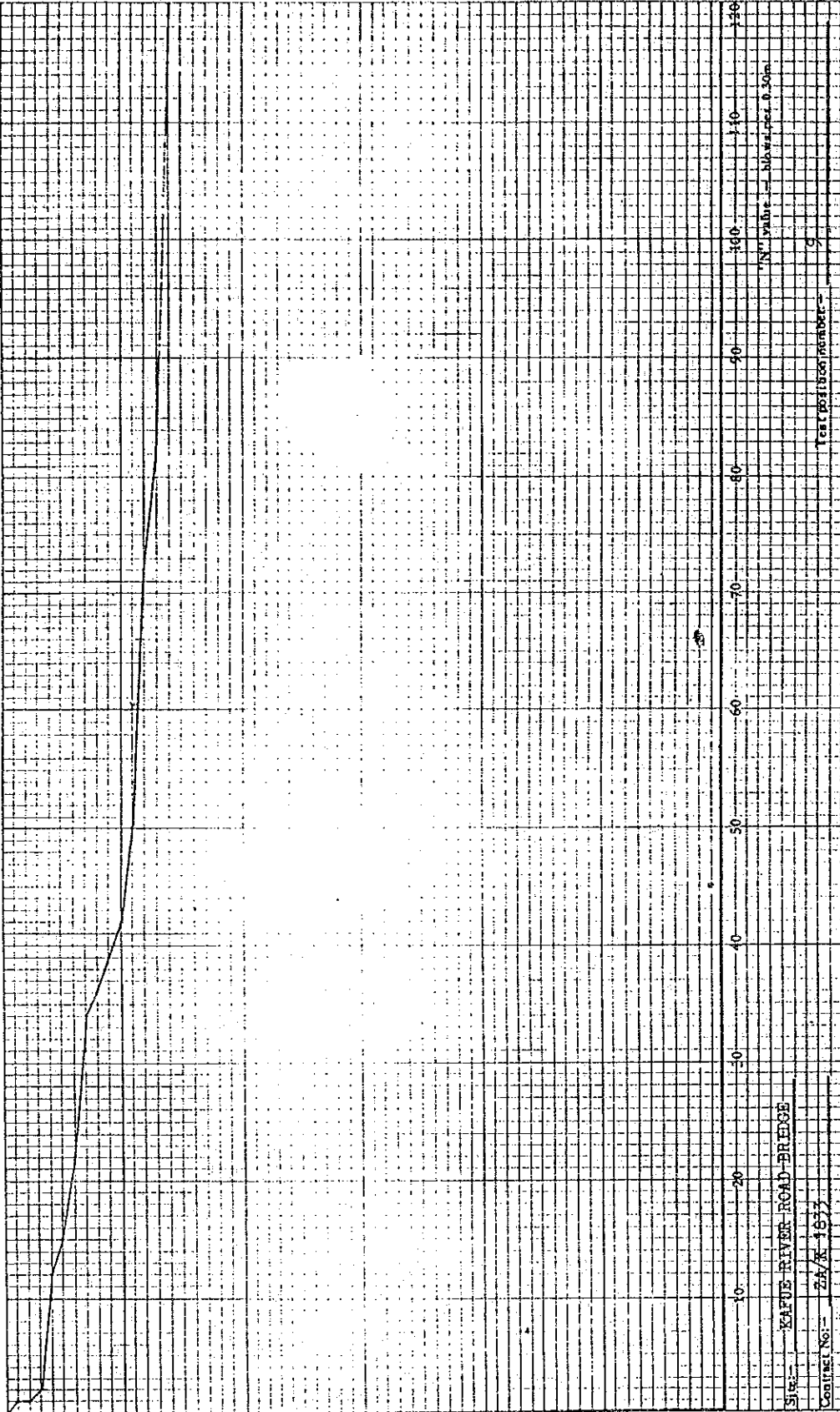
PENETROMETER TEST REPORT

Date 3RD MARCH 1990

Site: KARVE ROAD BRIDGE
 Contract No.: 2A/K-1633

Test position number: 8

G.L. AP Ltd. L



304

6.4

Site: KATIE RIVER ROAD BRIDGE

Contract No.: ZA/K 1873

Test position number: 9

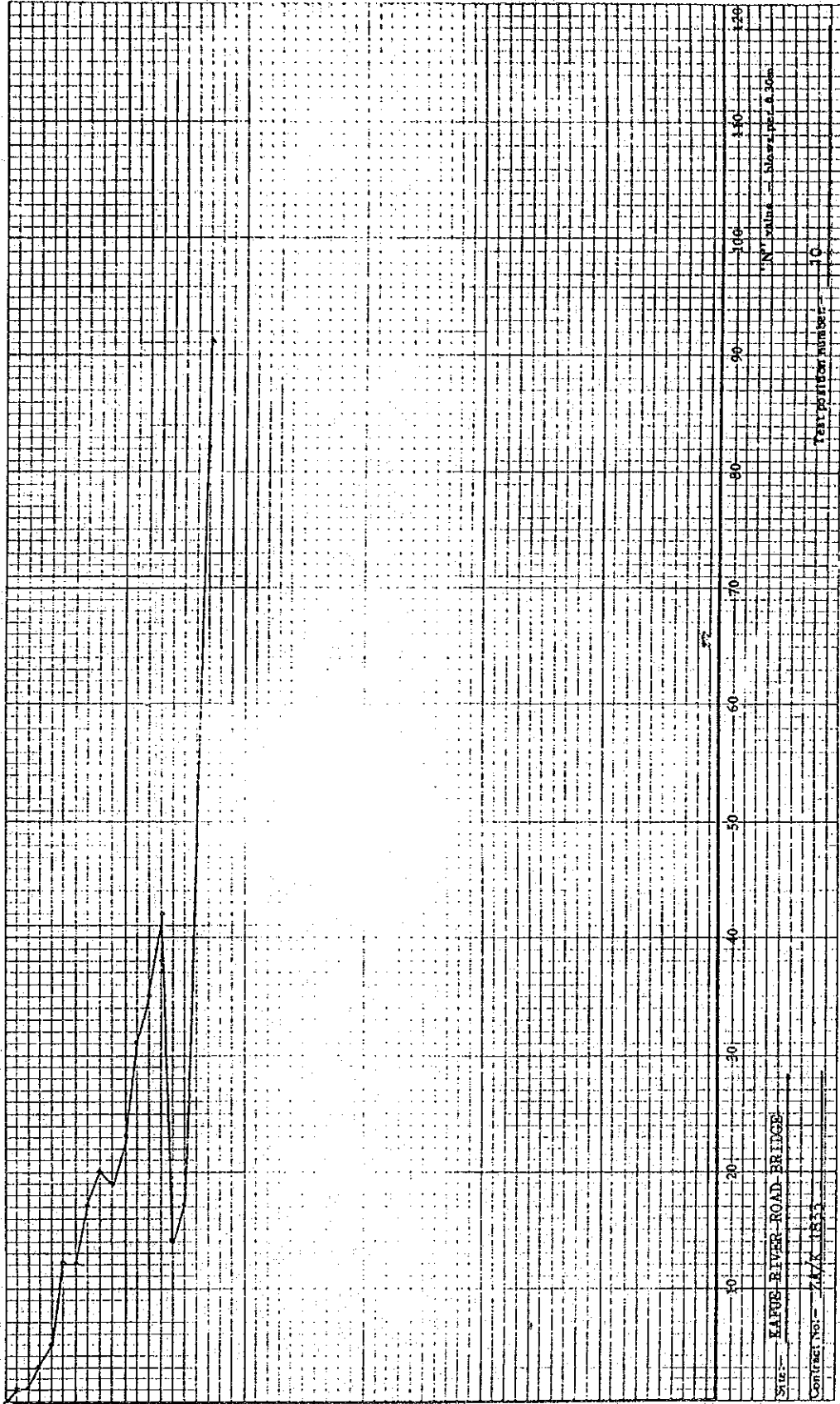
NSI value: 100
blow rate: 0.30m

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

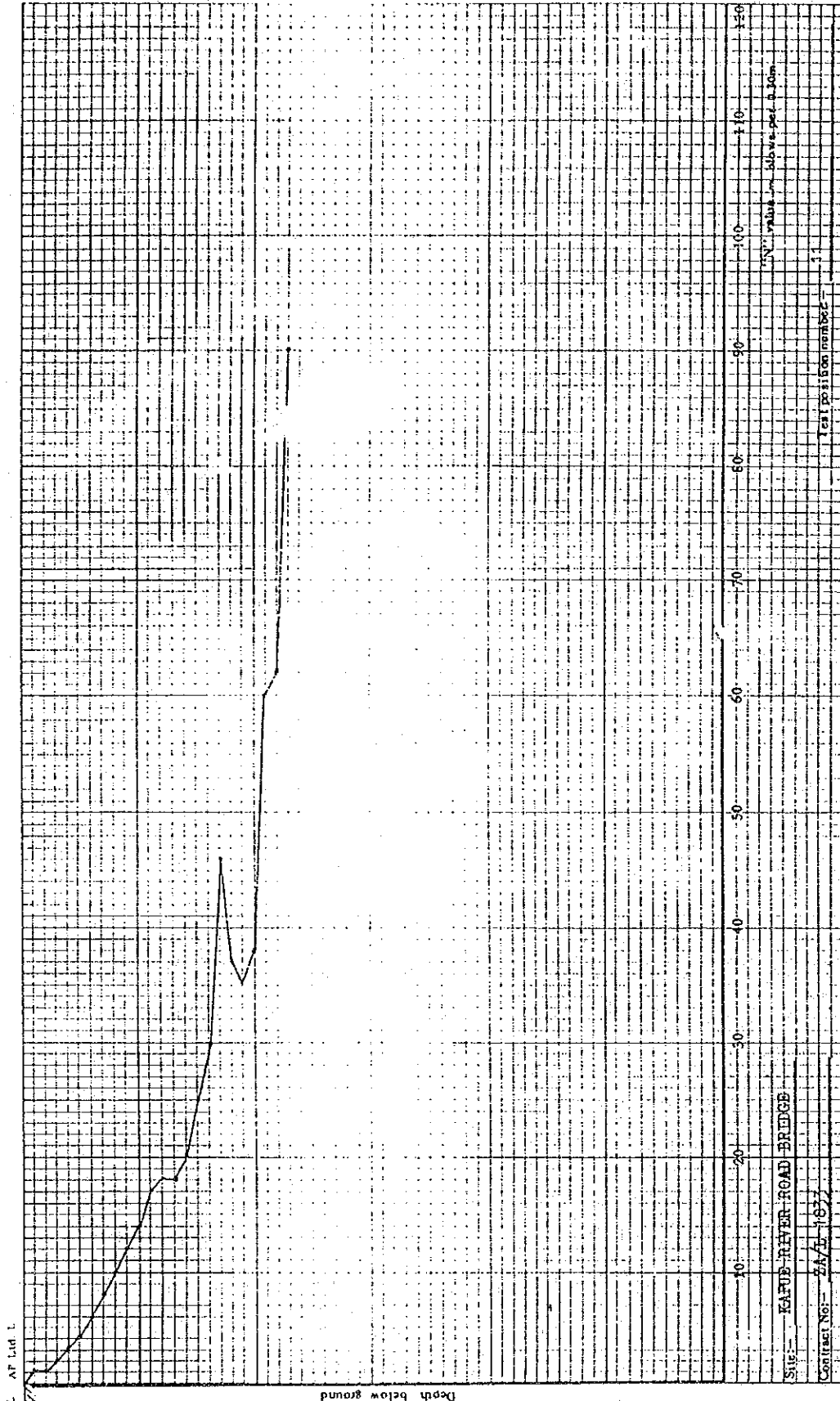
Date: 3RD MARCH 1990

G.2 AP Ltd. L



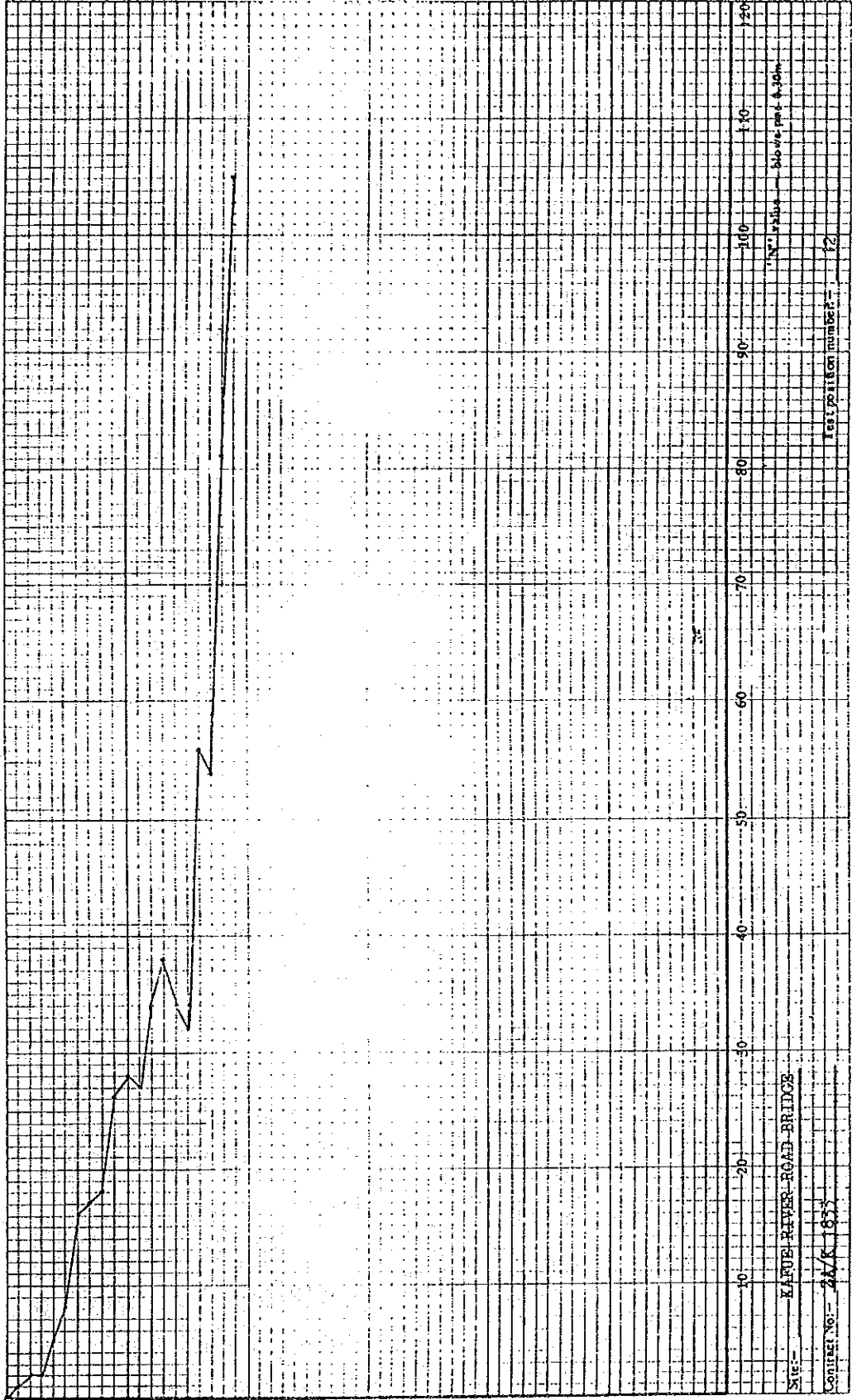
Site: KAFUE RIVER ROAD BRIDGE
 Contract No.: 747/1833
 Test pit/cor number: 10
 IN. 50mm - 50mm, per 7.6.30m

WADE ADAMS PILING AND FOUNDATIONS LTD. PENETROMETER TEST REPORT Date 3RD MARCH 1990



WADE ADAMS PILING AND FOUNDATIONS LTD. PENETROMETER TEST REPORT Date 3RD MARCH 1990

G.C. AF Ltd. L.



Depth below ground

SITE - KAPOE RIVER ROAD BRIDGE

CONTRACT NO. - 2A/K 1855

Test position number - 12

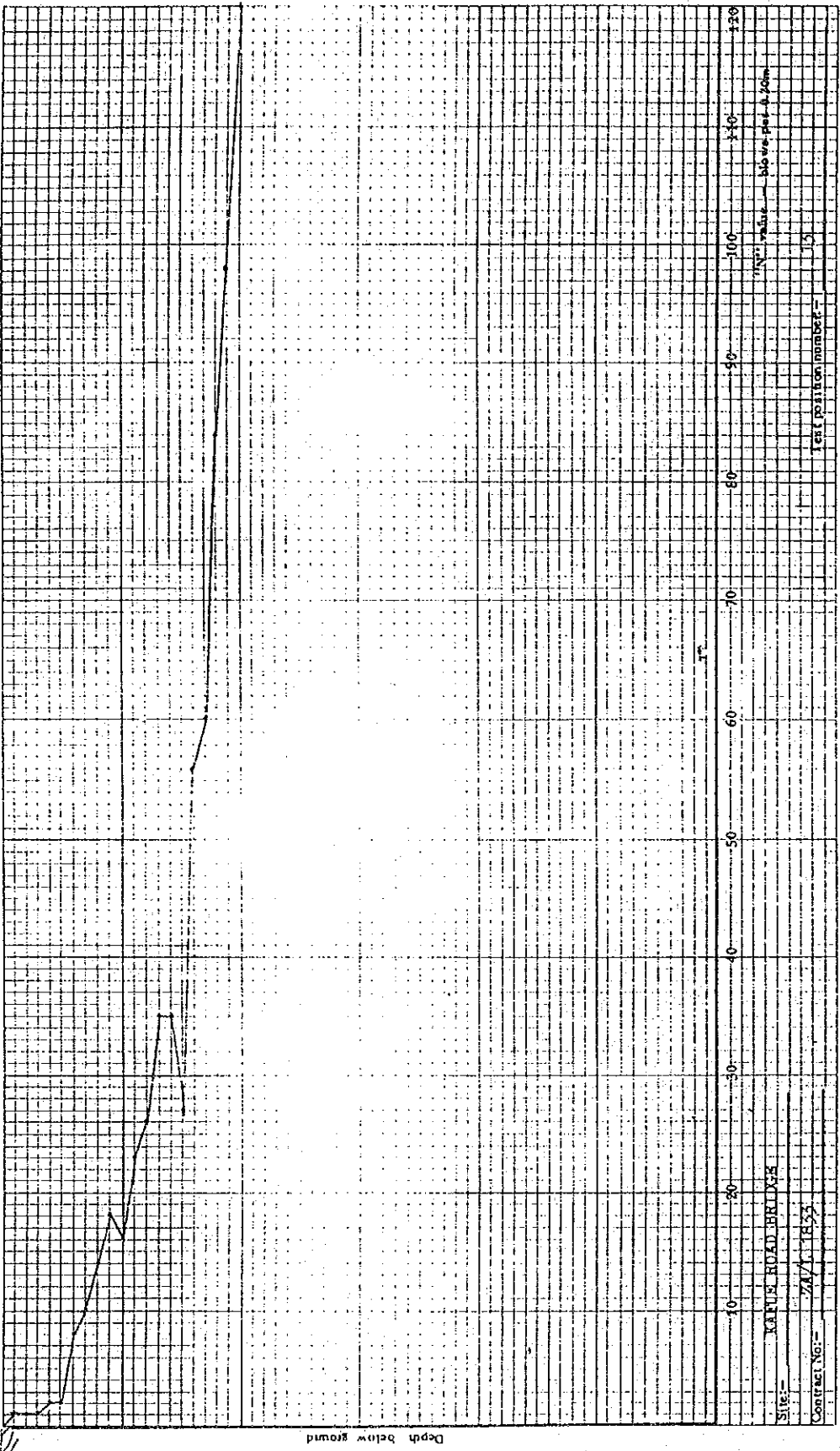
Notes - Blow rate 4.30m

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

Date 3RD MARCH 1990

66. AP Ltd. L

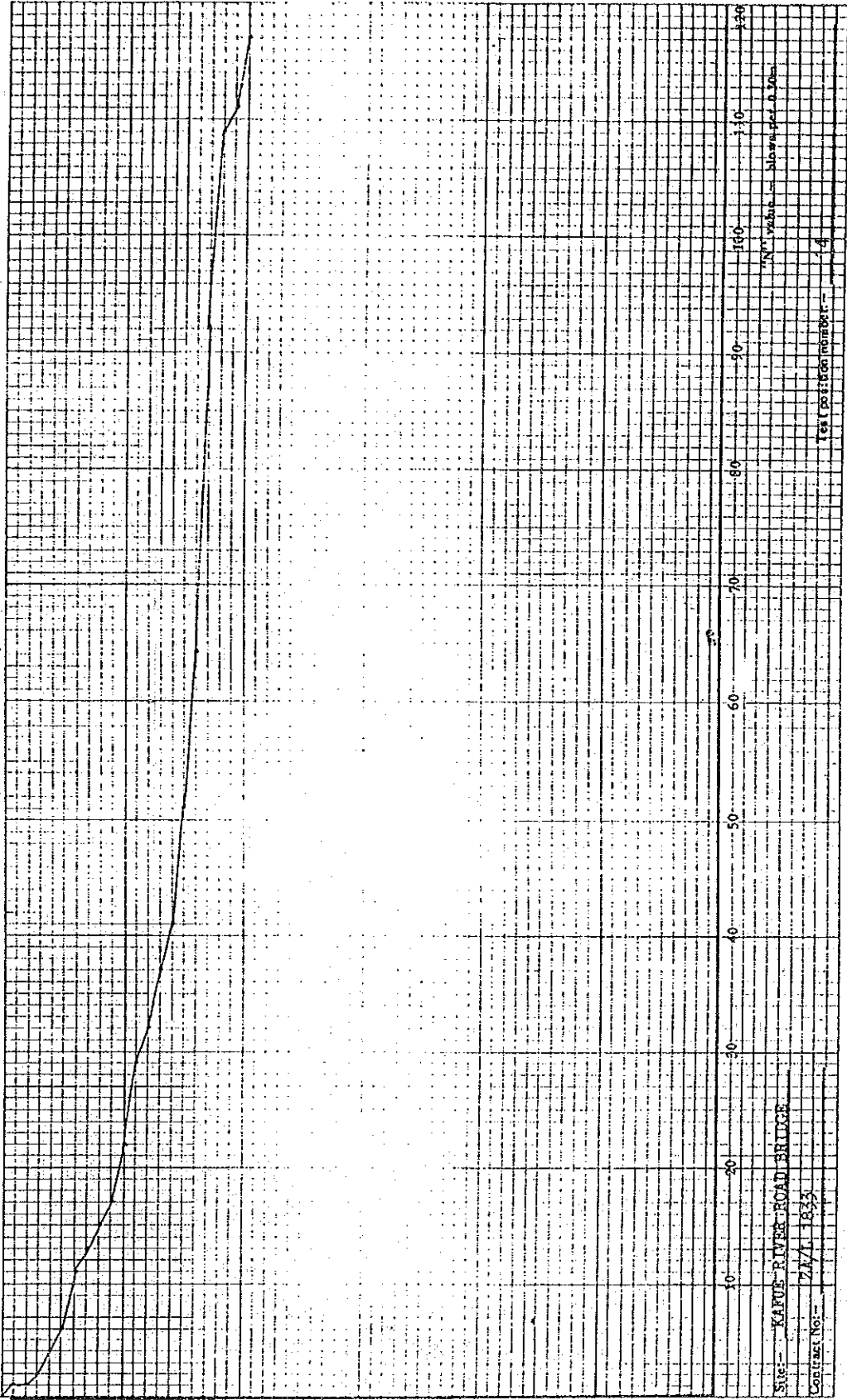


Site: KAPUR ROAD BRIDGE
 Contract No: 24/11833
 Test position number: 13

WADE ADAMS PILING AND FOUNDATIONS LTD. PENETROMETER TEST REPORT Date 4TH MARCH 1990

G.C.

AP Ltd. I.



Site: KARVE RIVER ROAD BRIDGE
 Contract No.: 21/1-1833

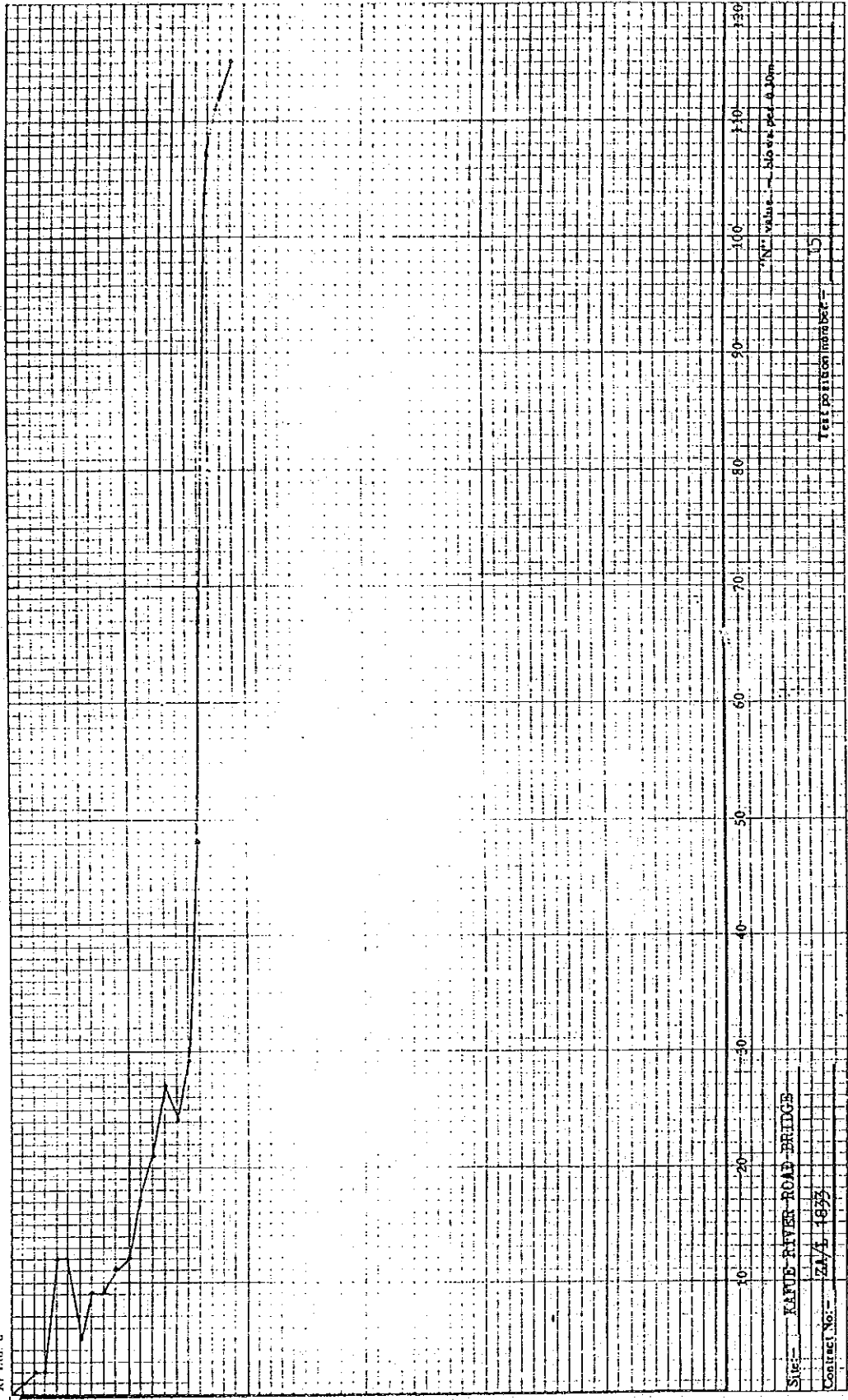
Test Position Number: 14
 Blow weight: 140 lbs

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

Date 4TH MARCH 1990

G/C AP 1101. L
WAVE



Site: KATIE RIVER ROAD BRIDGE

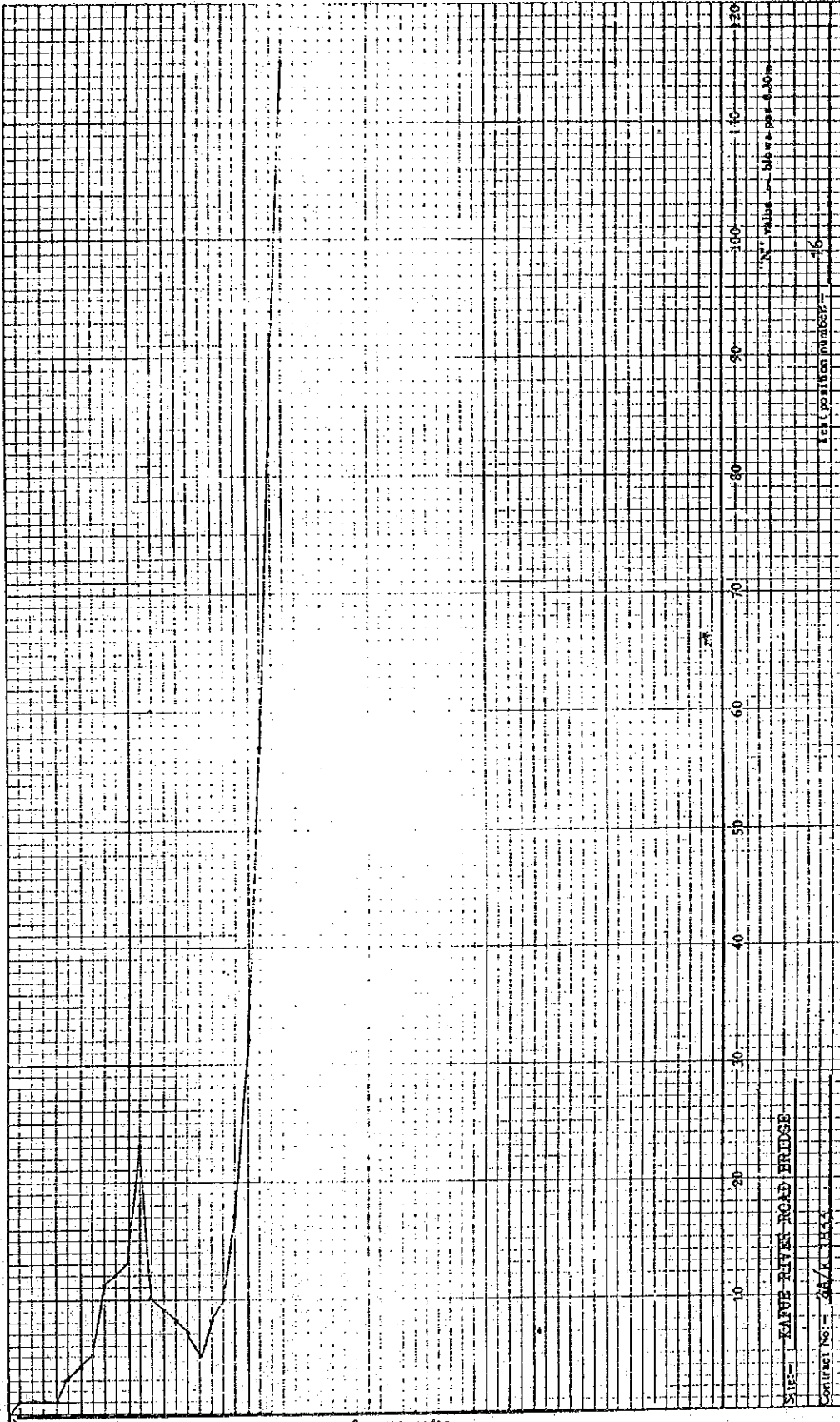
Contract No: ZA/1 1892

Test pit/box number: 15

*N value - blow per 30cm

WADE ADAMS PILING AND FOUNDATIONS LTD. PENETROMETER TEST REPORT Date 4TH MARCH 1990

G.C. AP Ltd. L



begin o'clock ground

SITE - KATVE RIVER ROAD BRIDGE

Contract No. - 24/K/155

100' value - blows per 3.0m

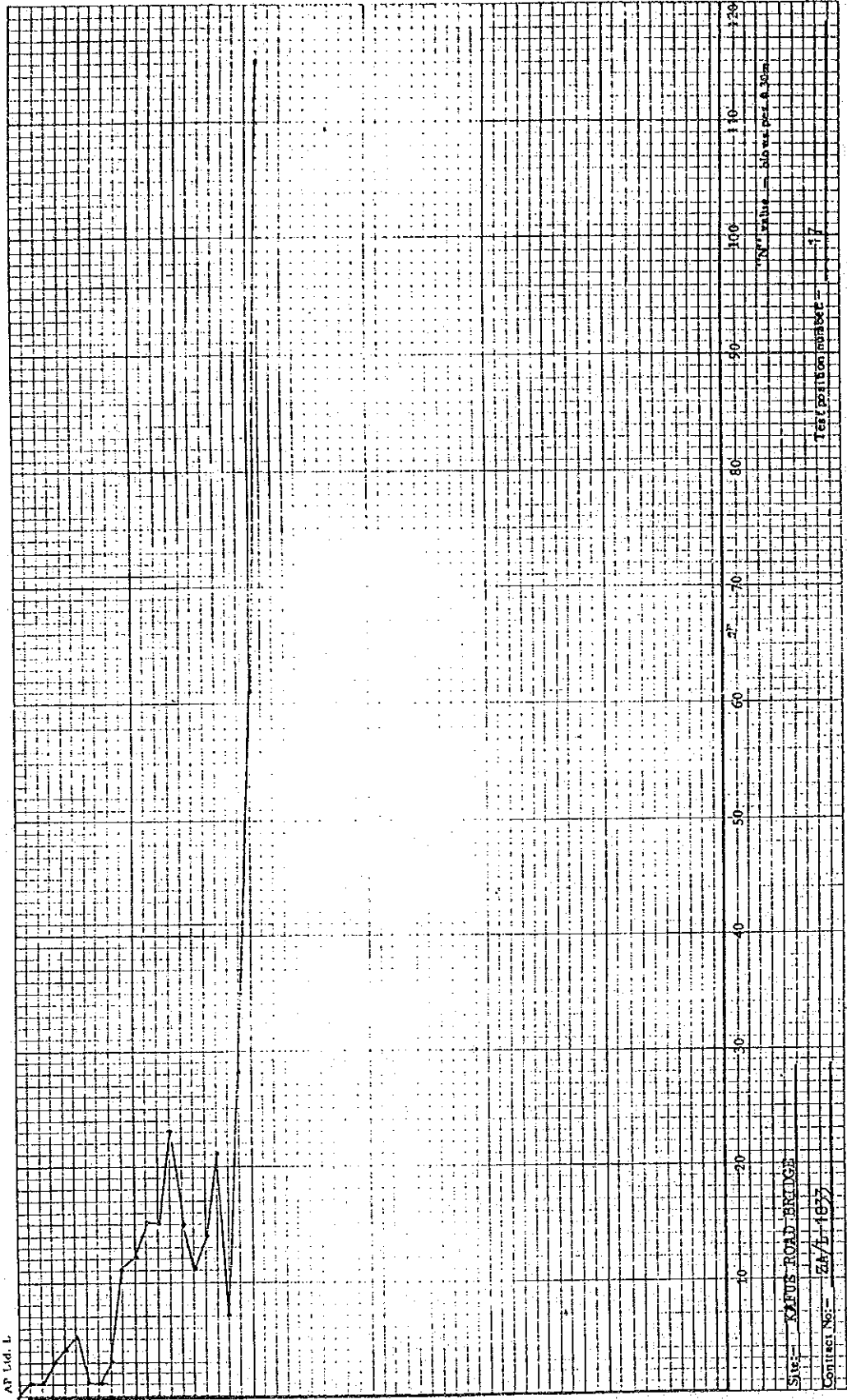
Test position number - 16

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

Date 4TH MARCH 1990

CC. AP LVL. L



depth below ground

120 110 100 90 80 70 60 50 40 30 20 10

Site: KAFUS ROAD BRIDGE

Contract No: ZAF/L-1877

Test position number: 17

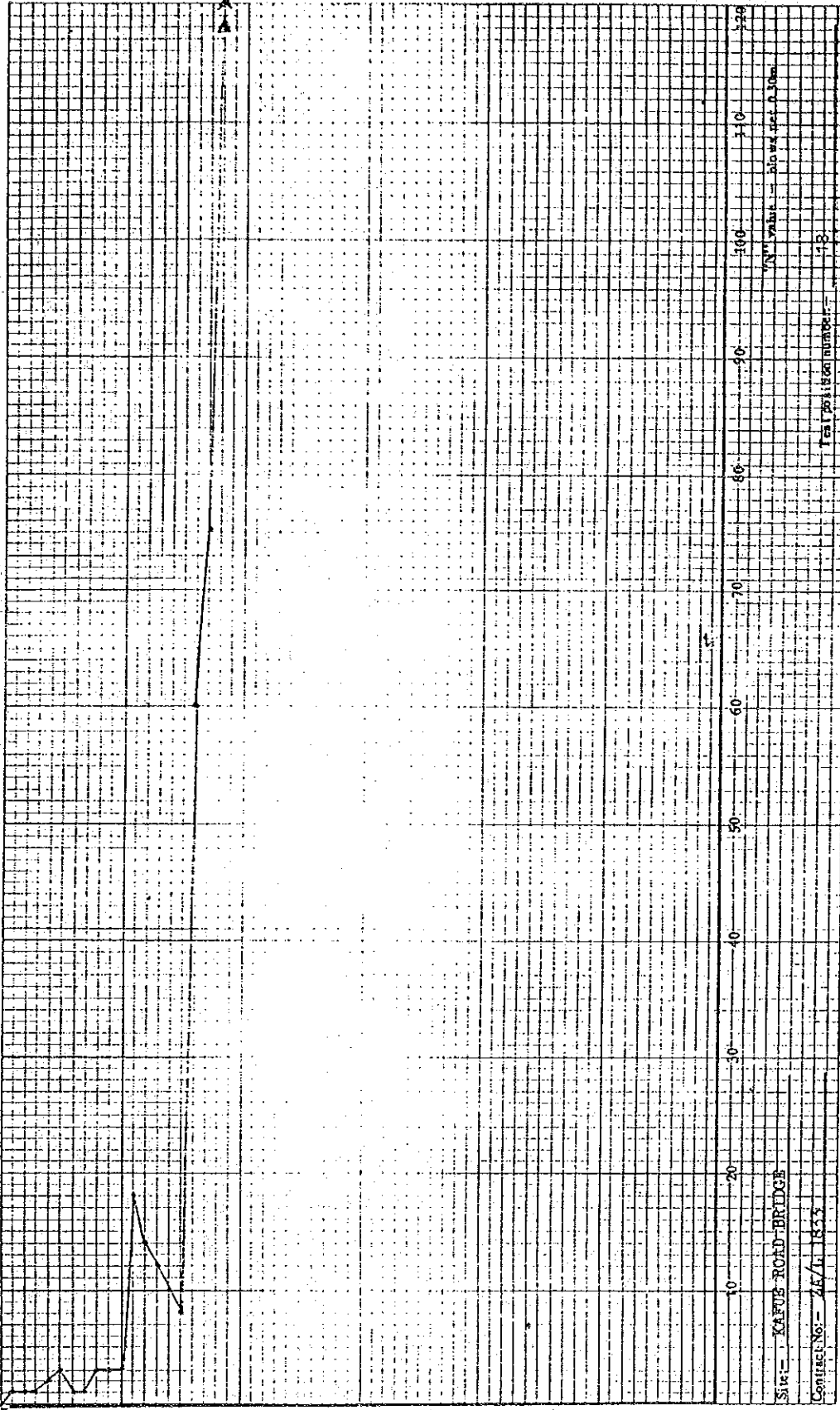
Date: 5TH MARCH 1990

PENETROMETER TEST REPORT

WADE ADAMS PILING AND FOUNDATIONS LTD.

GL

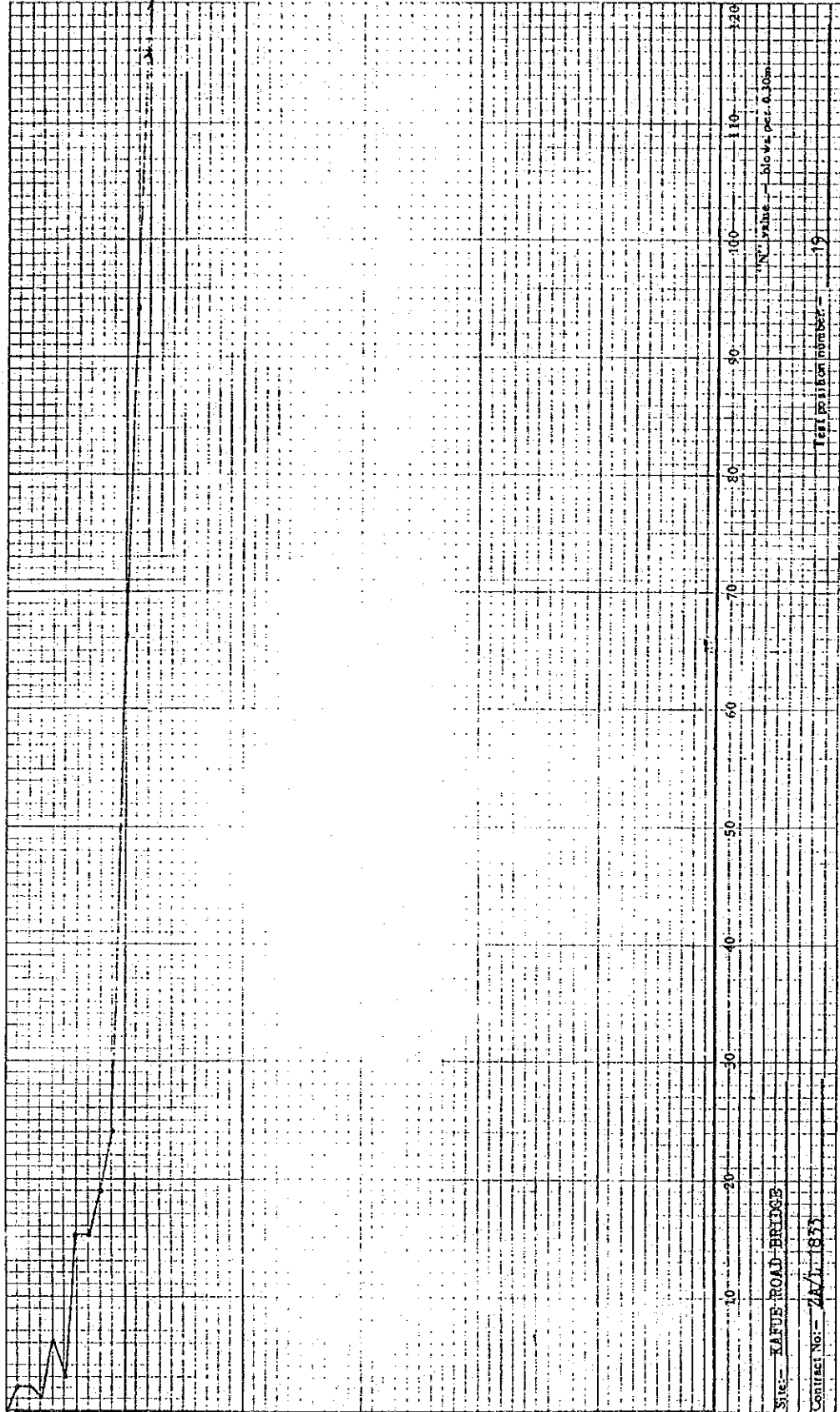
AP (40) 1



Site: KAFUS ROAD BRIDGE
 Contract No: AE/1/1833
 Test position number: 13

WADE ADAMS PILING AND FOUNDATIONS LTD. PENETROMETER TEST REPORT Date 5TH MARCH 1990

S.C. AP Ltd. L



Depth below ground

SITE - KARUE ROAD-BRIDGE

Contract No. - 7/A/J. (833)

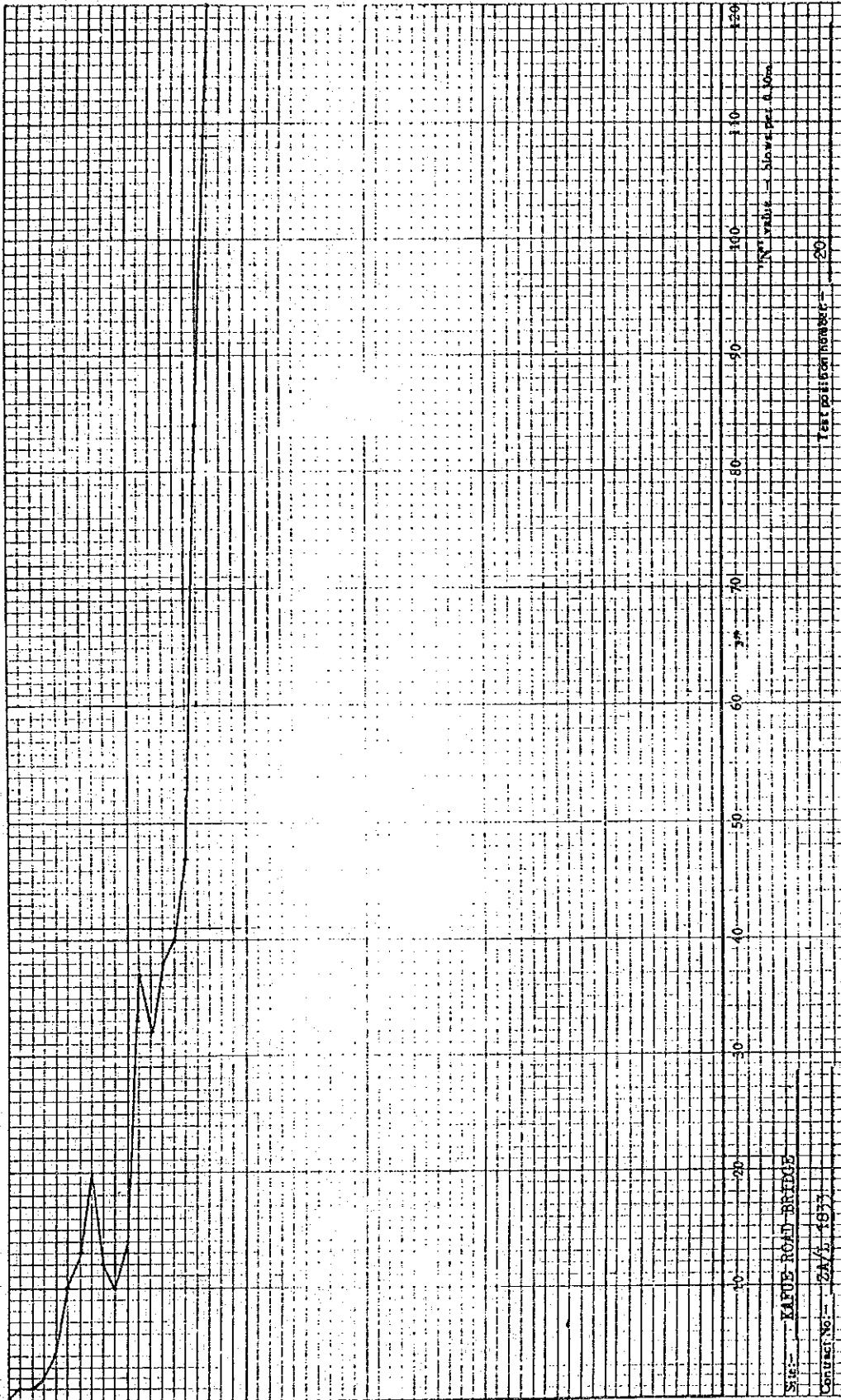
Test position number - 19

"N" value - Blow per 30cm

WADE ADAMS PILING AND FOUNDATIONS LTD. Date 5TH MARCH 1990

PENETROMETER TEST REPORT

GC AF LEG. L



3.0M

6.0M

Depth below ground

Scale: 1 cm = 10 mm

Site: KAFUE ROAD BRIDGE

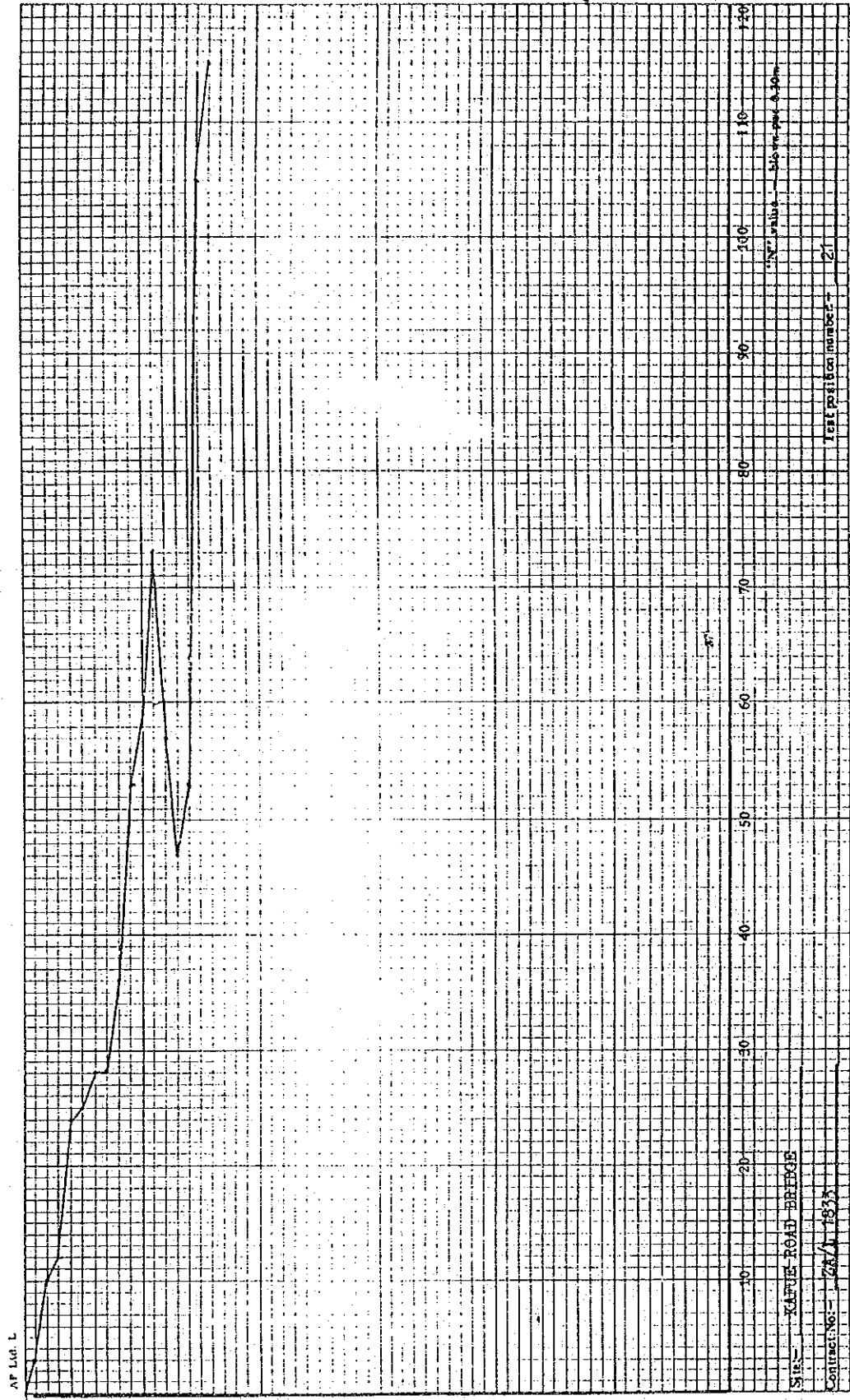
Contact No: 24/3-4833

Test position number: 20

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

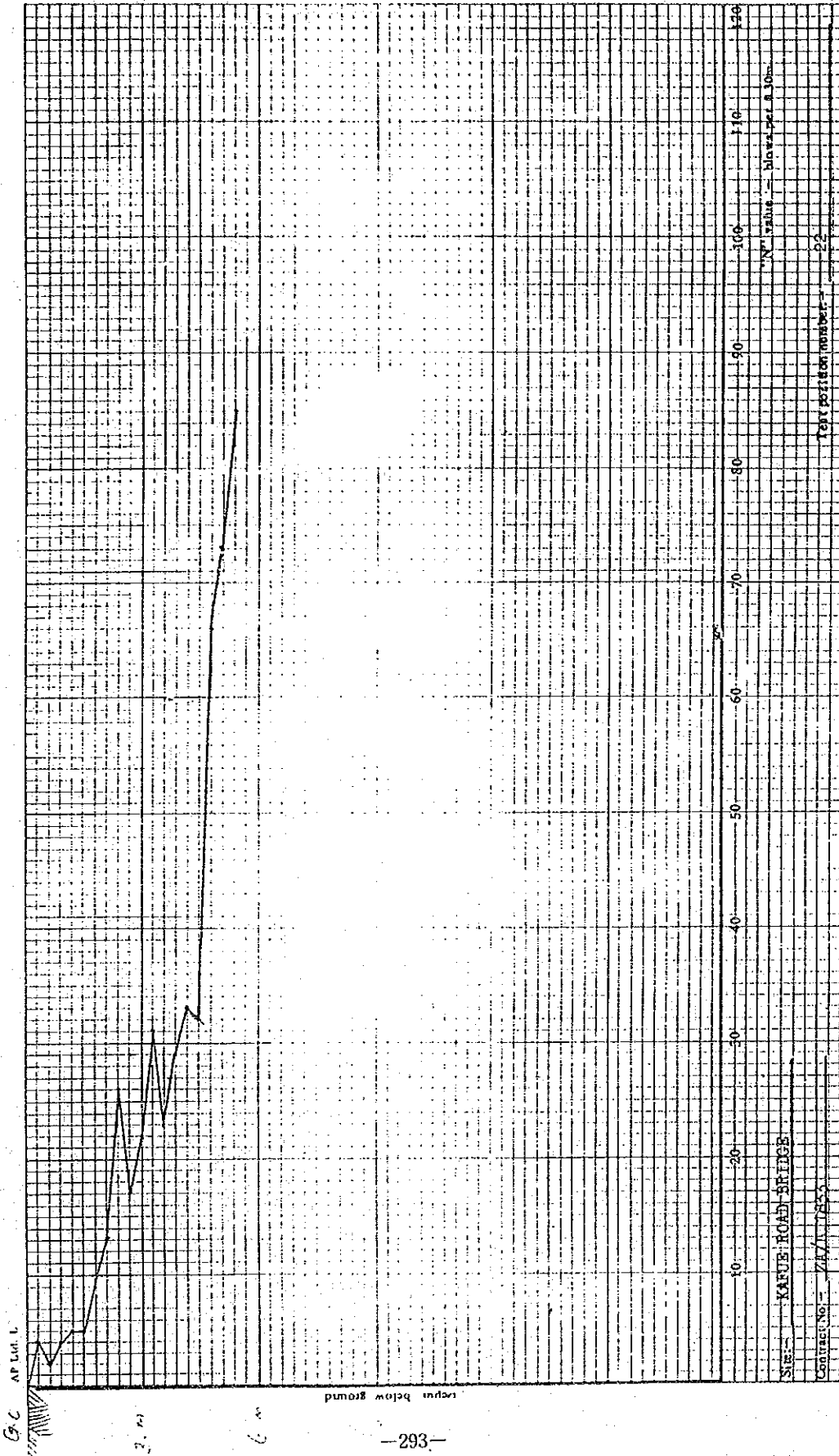
Date: 1ST MARCH 1990



Date 1ST MARCH 1990

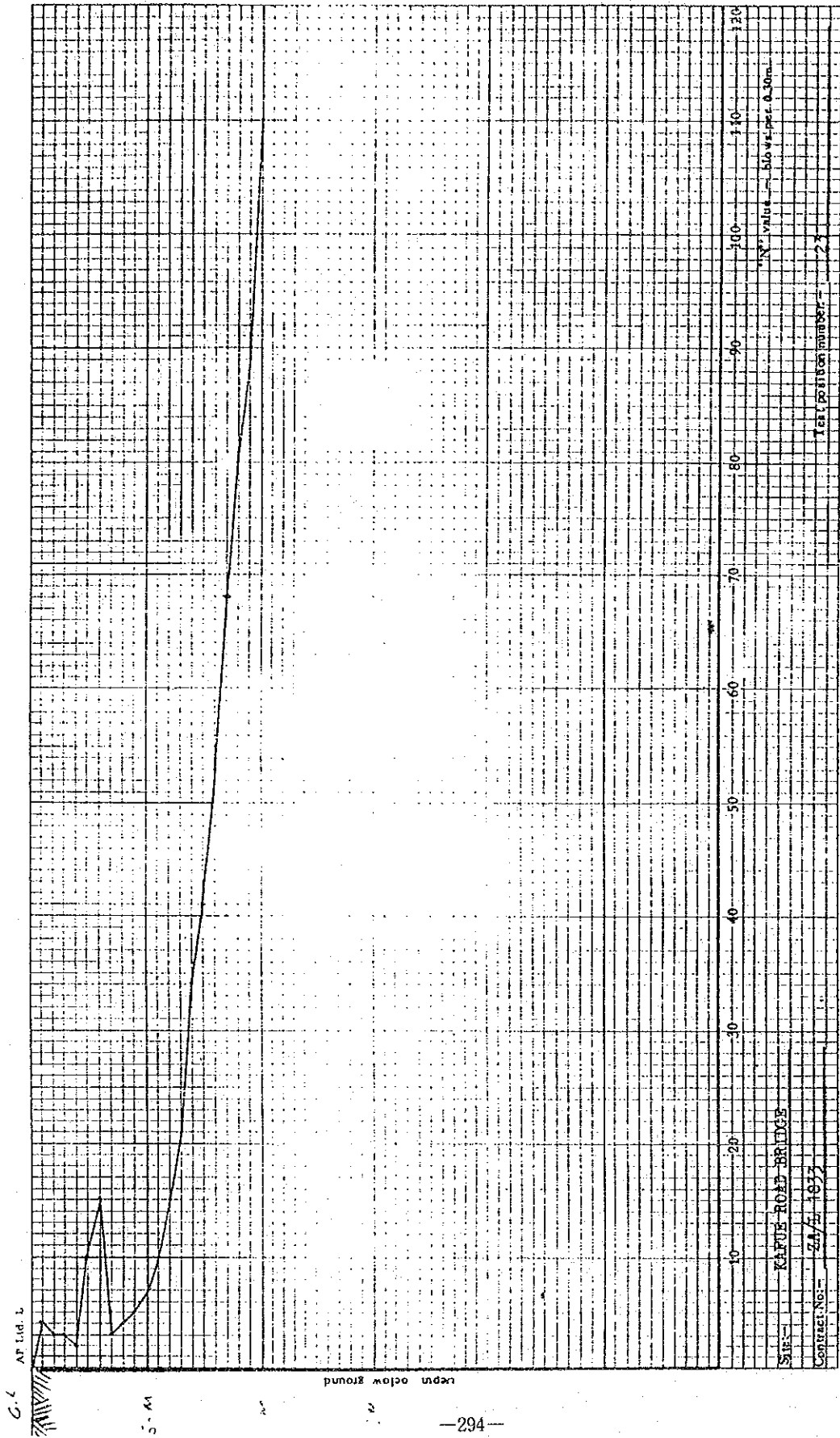
PENETROMETER TEST REPORT

WADE ADAMS PILING AND FOUNDATIONS LTD.



WADE ADAMS PILING AND FOUNDATIONS LTD. Date 28TH FEBRUARY 1990
PENETROMETER TEST REPORT

Contract No. 747/1/255
 SITE KARUE ROAD BRIDGE
 Test position number 22
 No. of blows blows per 30cm

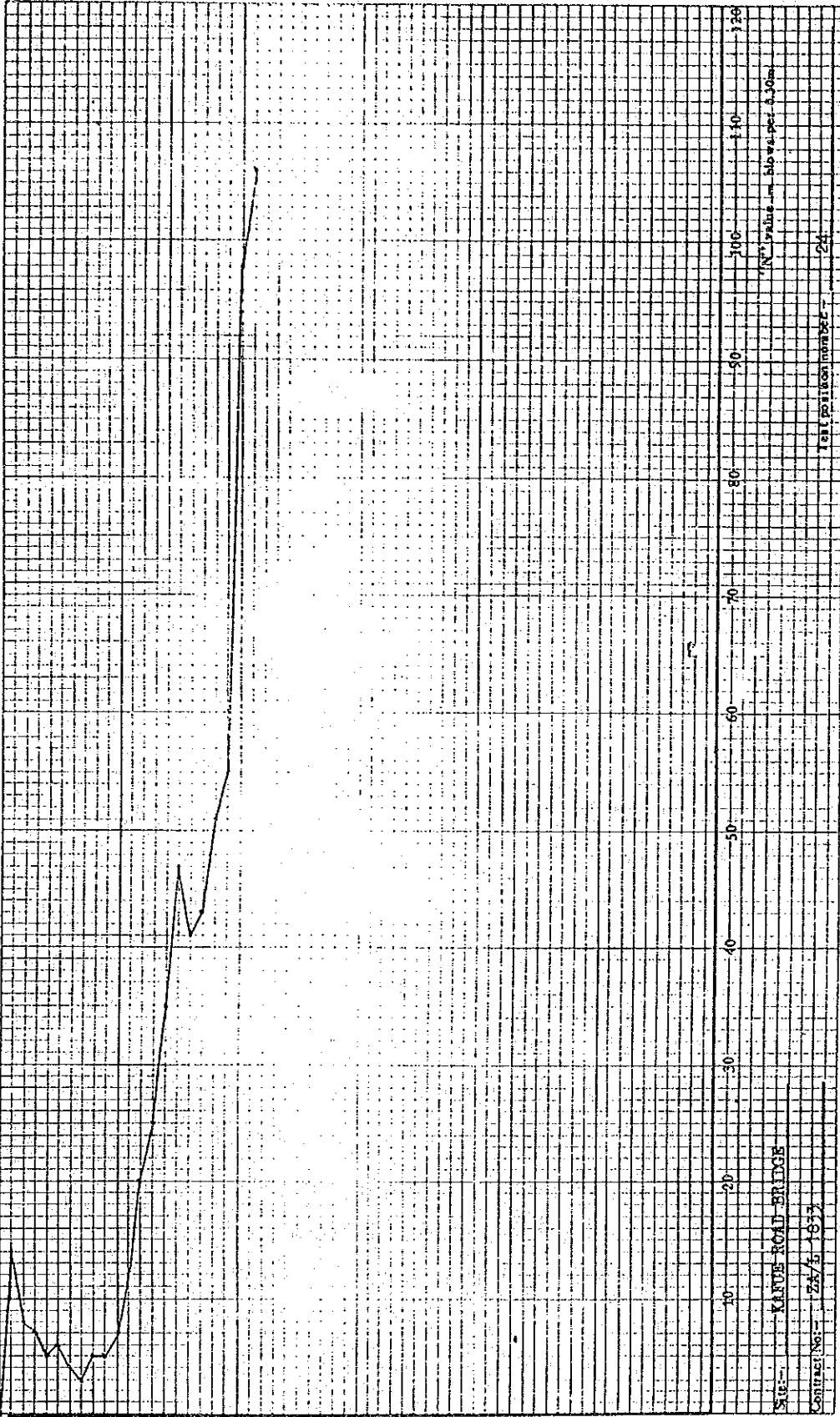


Date 27TH FEBRUARY 1990

PENETROMETER TEST REPORT

WADE ADAMS PILING AND FOUNDATIONS LTD.

6.1 AF Ltd. L



Scale value in blow per 30mm

Test position number 24

SITE: KATVE ROAD BRIDGE

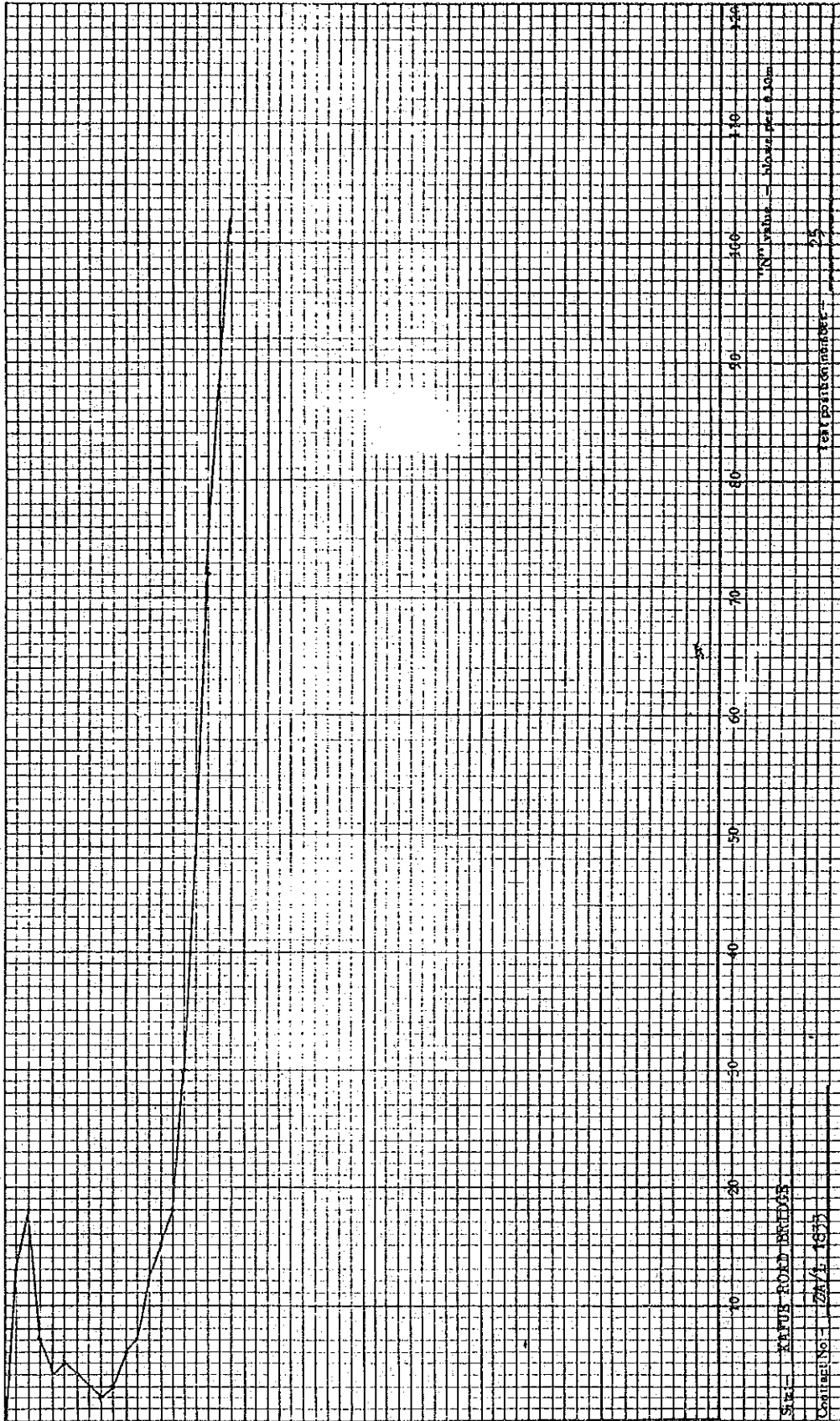
Contract No: ZA/S 1873

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

Date 27TH FEBRUARY 1990

G.C. AP Ltd. L



Scale - 100 lbs per ft 10m

Test position number - 25

Site - XEFUS ROAD BRIDGES

Contract No - 1247/1, 1877

Date - 27TH FEBRUARY 1990

PENETROMETER TEST REPORT

WADE ADAMS PILING AND FOUNDATIONS LTD.

C.C. AP Div. I.



Depth below ground

SITE: KAFUE ROAD BRIDGE

Contract No.: 24/1-1677

Test Pit No. number

26

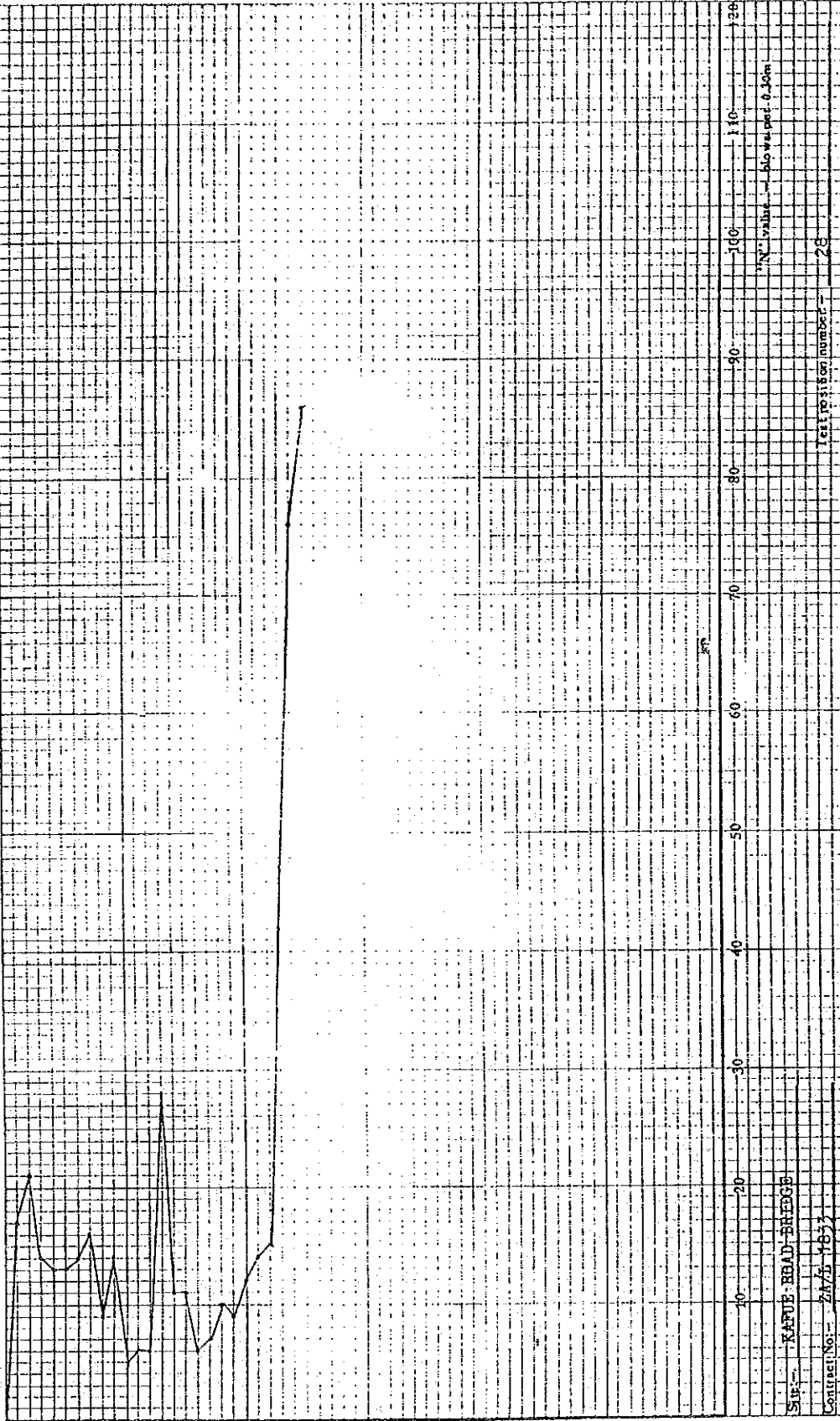
Penetration value - blow per 30cm

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

Date 6TH MARCH 1990

G.L. AP Ltd. L



Site: KAPUR BHAD BLEDGE

Column No: 2A/3-183

Test position number: 28

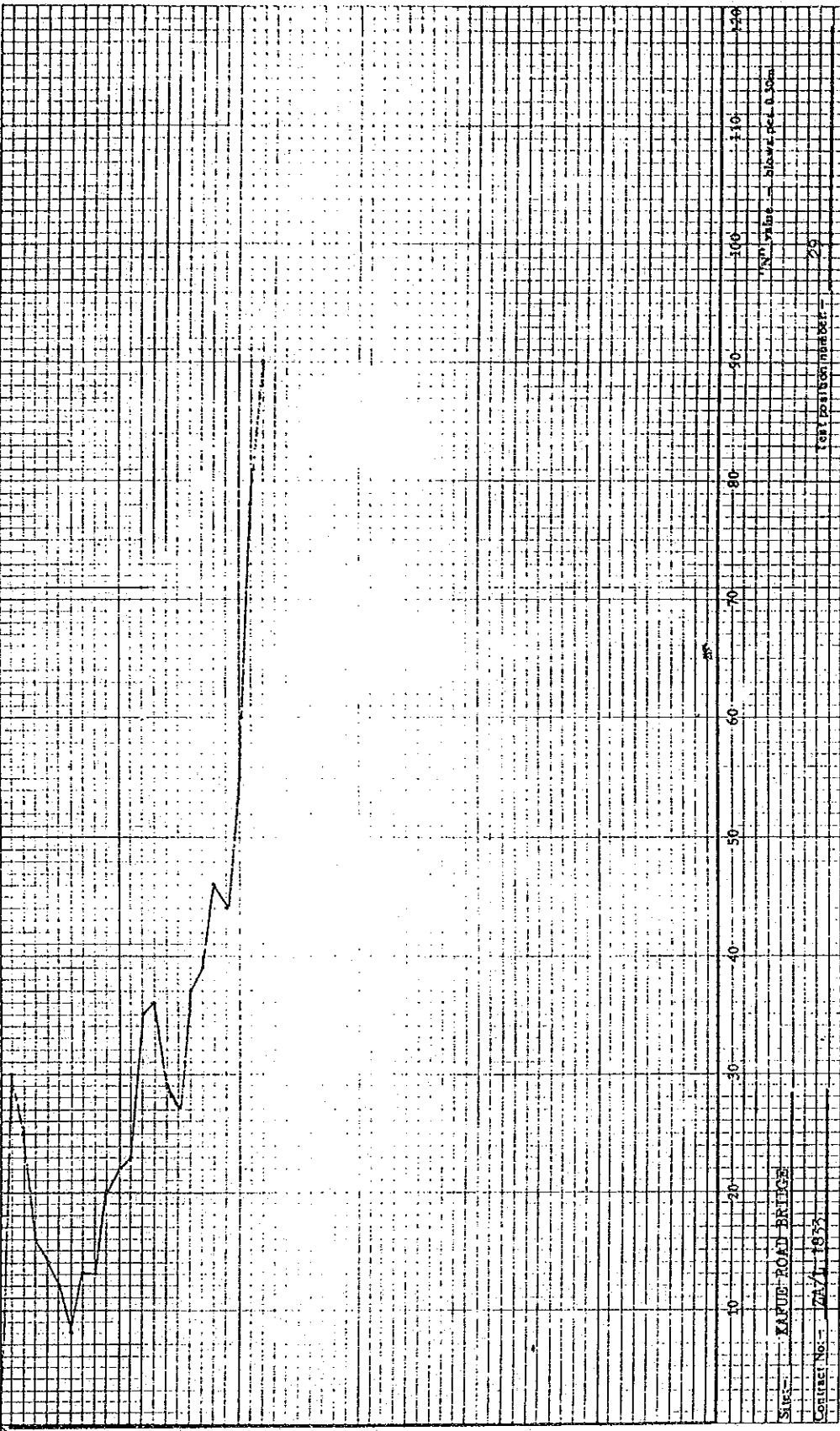
*N-value - 65 w.p.c. 0.30m

WADE ADAMS PILING AND FOUNDATIONS LTD.

PENETROMETER TEST REPORT

Date 6TH MARCH 1990

G.F. AF Ltd. L



SITE: KAPUR ROAD BRIDGE
 Contract No: 73/1-1637
 Test Position number: 25

WADE ADAMS PILING AND FOUNDATIONS LTD. PENETROMETER TEST REPORT Date 6TH MARCH 1990