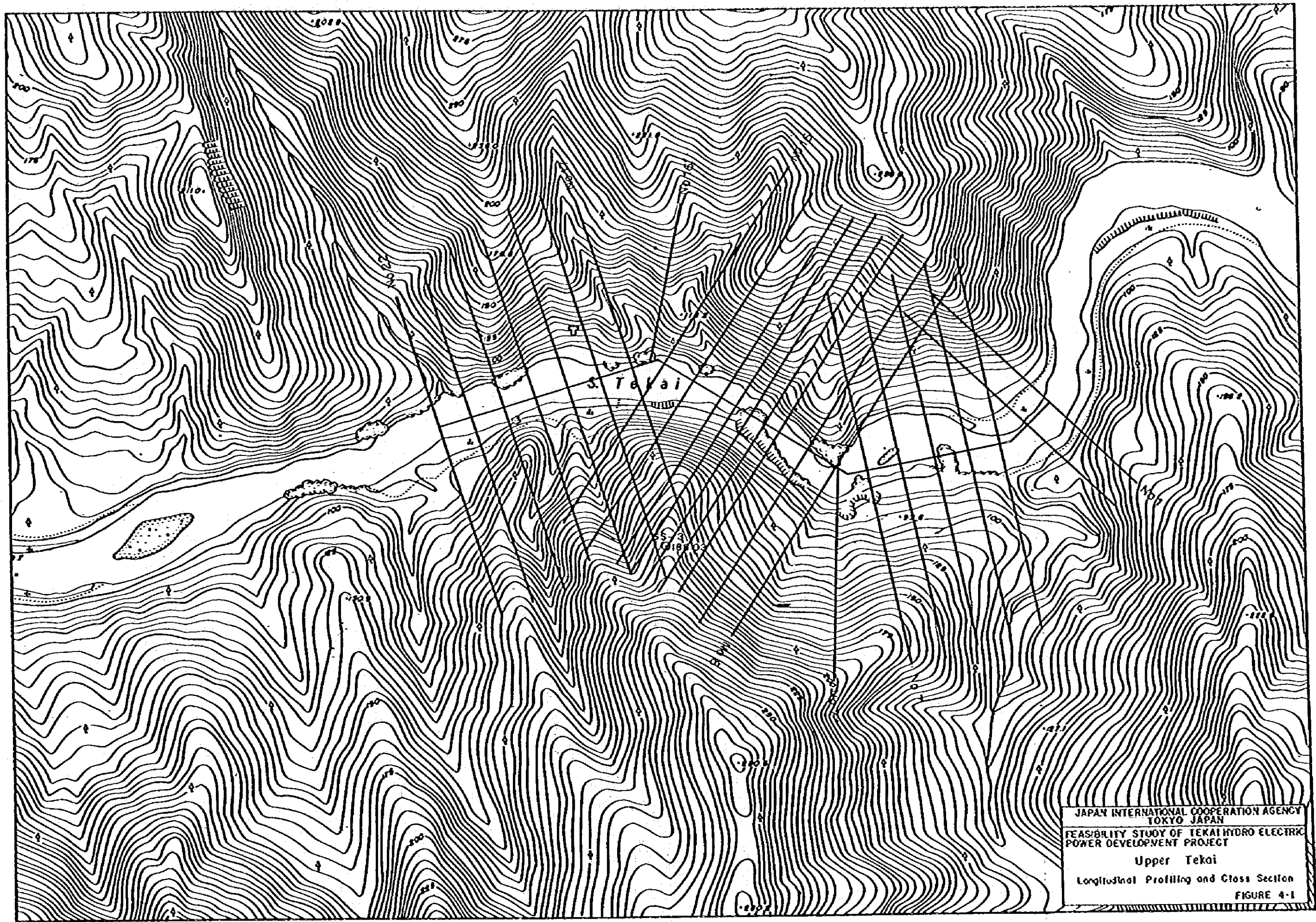
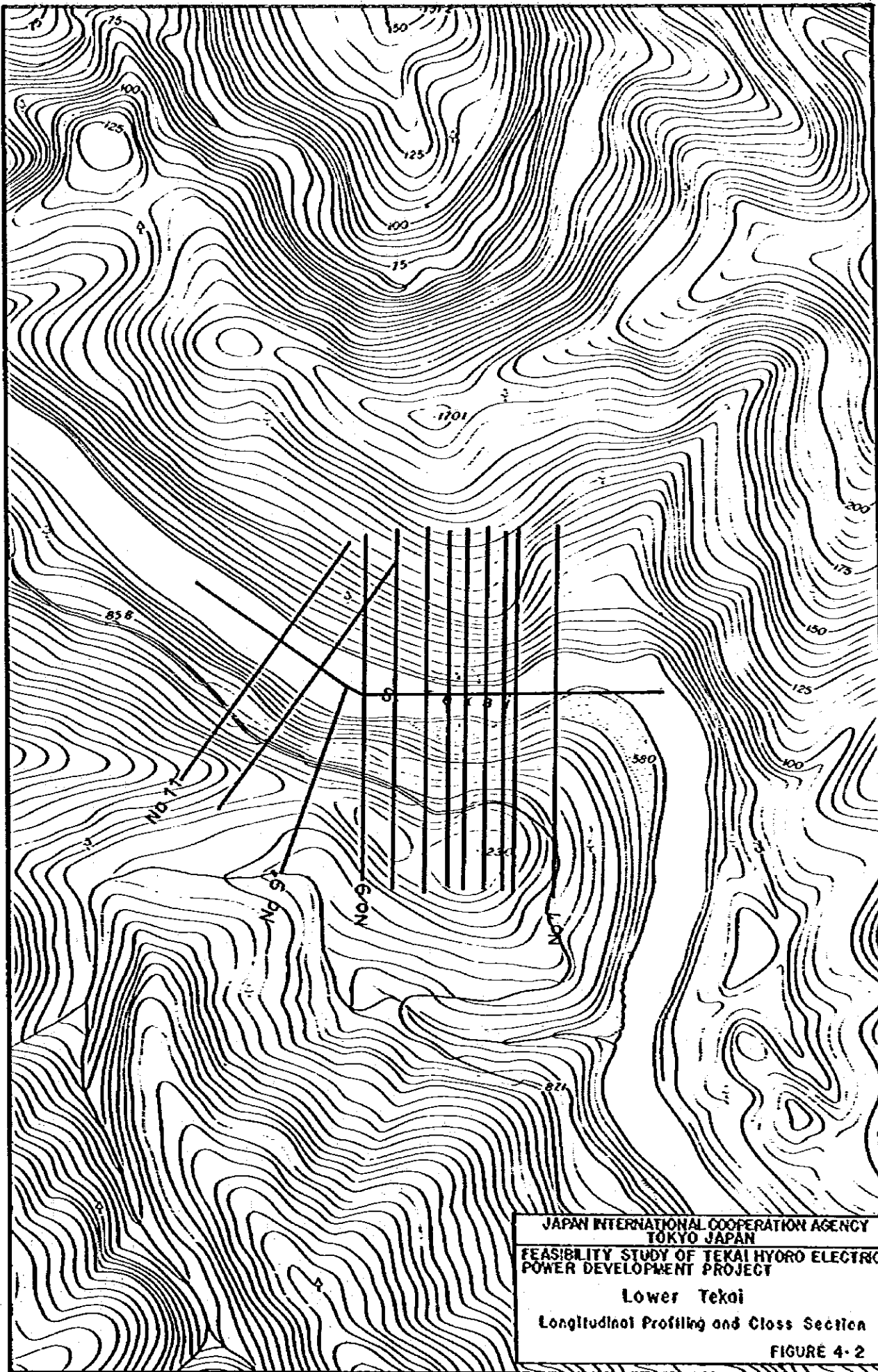
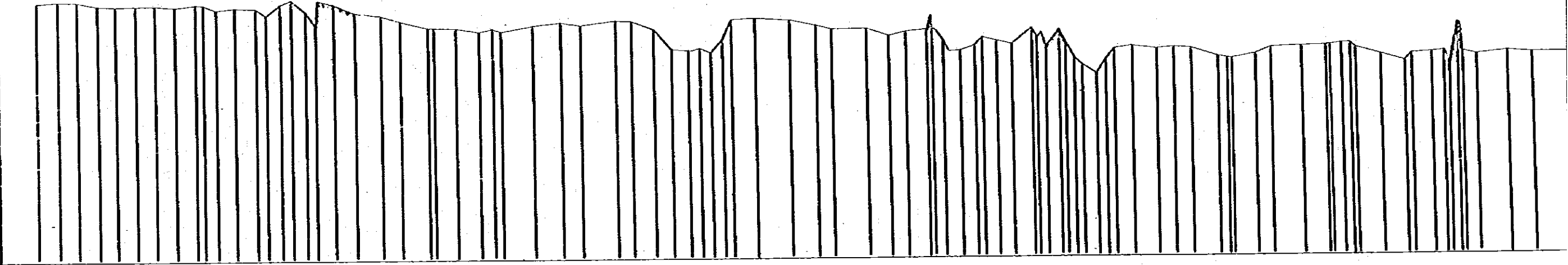
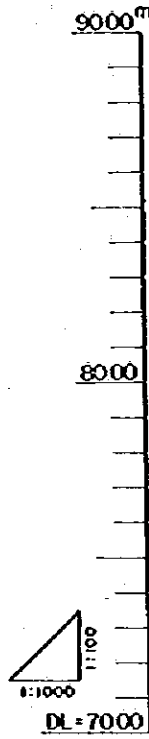


JAPAN INTERNATIONAL COOPERATION AGENCY
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FEASIBILITY STUDY OF TERAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT
LEVEL ROUTE
FIGURE 11

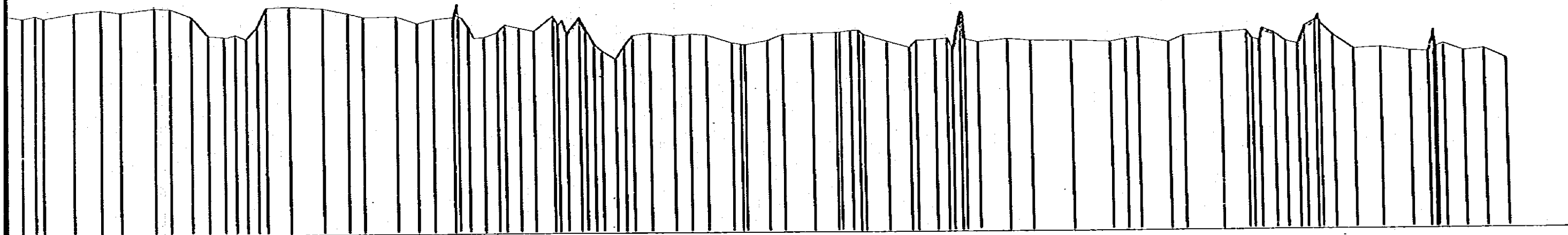




JAPAN INTERNATIONAL COOPERATION AGENCY
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 FEASIBILITY STUDY OF TEKAI HYDRO ELECTRIC
 POWER DEVELOPMENT PROJECT
 Lower Tekai
 Longitudinal Profiling and Cross Section
 FIGURE 4-2

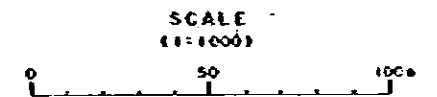
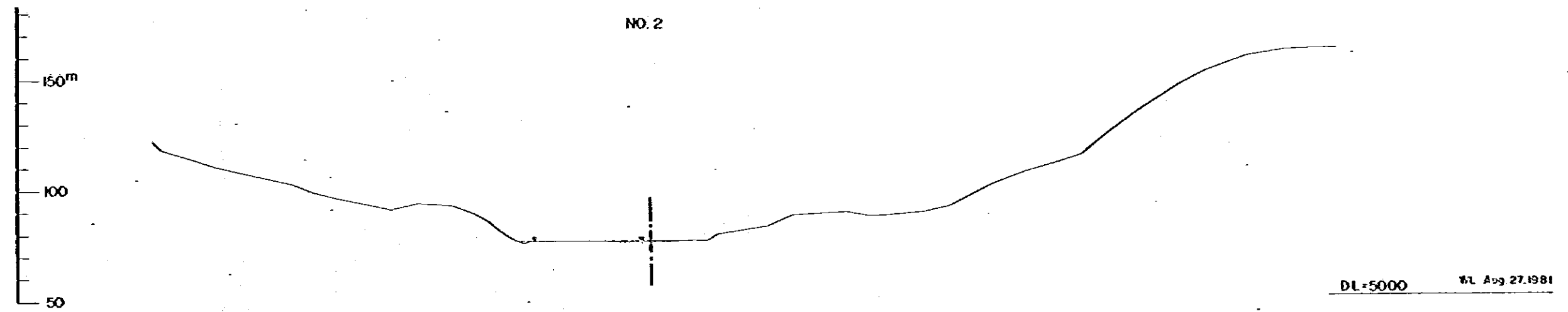
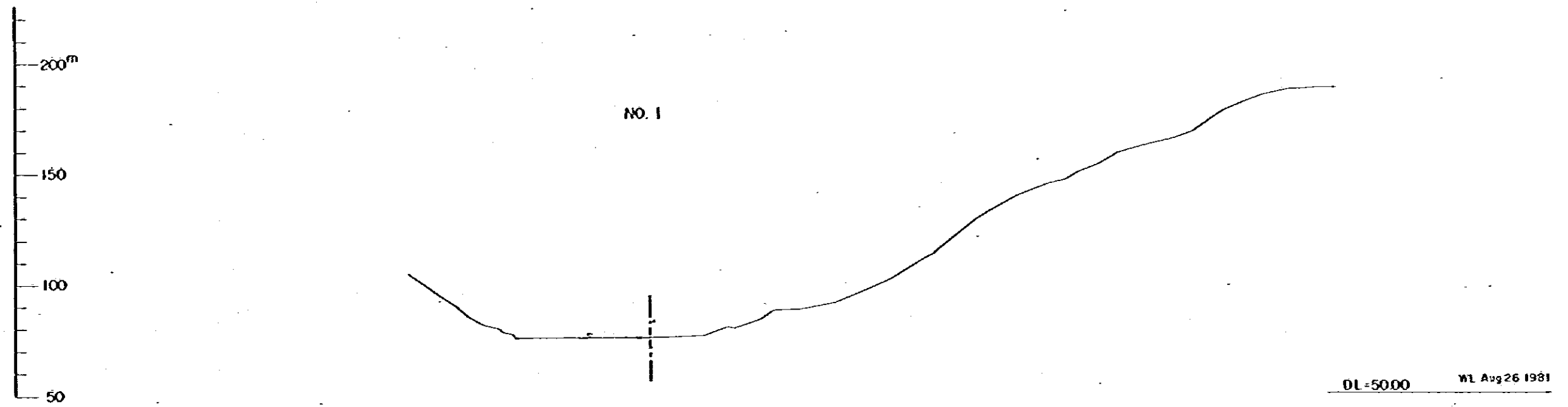


Station	Distance	Total Distance	Ground Height
NO.1	0.00	0.00	83.13
	11.50	11.50	83.24
	9.00	20.50	83.22
	10.50	31.00	83.02
	9.00	40.00	82.97
NO.2	10.00	50.00	82.99
	10.00	60.00	83.02
	10.00	70.00	82.97
	10.00	80.00	83.08
	4.00	84.00	83.05
	6.20	90.20	82.80
NO.3	2.80	100.00	82.90
	10.50	110.50	82.97
	3.50	114.00	82.49
	7.20	121.20	83.05
	5.40	126.60	83.32
	7.10	133.70	82.67
	4.80	140.50	81.94
NO.4	9.50	150.00	83.05
	10.80	160.80	82.82
	12.70	173.50	82.43
	9.70	183.20	82.16
NO.5	13.60	197.00	81.83
	3.00	200.00	81.83
	11.20	211.20	81.82
	11.50	222.70	81.91
	7.00	229.70	81.73
	4.30	234.00	81.61
NO.6	16.00	250.00	81.93
	14.00	264.00	82.00
	10.00	274.00	81.94
	19.00	293.00	82.14
NO.7	8.00	301.00	82.11
	11.00	312.00	81.89
	9.00	321.00	80.83
	6.50	327.50	80.58
	3.60	331.10	80.87
	5.40	336.50	80.43
NO.7	6.00	342.50	81.11
NO.8	4.30	346.80	82.10
	11.90	358.70	82.20
	17.20	375.90	82.12
	13.00	388.90	81.79
NO.9	7.90	396.80	81.86
	17.40	414.20	81.88
	10.70	424.90	81.23
	6.70	431.60	81.40
NO.10	10.30	441.90	81.37
	3.30	445.20	81.37
	5.30	450.50	81.03
	9.40	459.90	80.44
NO.11	7.30	467.20	80.74
	3.30	470.50	81.15
	7.40	477.90	80.87
	7.60	485.50	80.80
NO.12	19.00	504.50	80.92
	4.30	508.80	81.13
	4.30	513.10	80.65
	6.00	519.10	81.37
	3.00	522.10	80.83
	4.00	526.10	79.71
NO.13	7.00	533.10	79.26
	4.80	537.90	80.00
	4.20	542.10	80.56
NO.14	9.00	551.10	80.66
	12.50	563.60	80.04
	8.90	572.50	80.60
	9.00	581.50	80.97
NO.15	13.20	594.70	80.12
	2.80	597.50	80.07
NO.16	15.50	613.00	80.64
	12.30	625.30	80.65
	2.80	628.10	80.77
	2.80	630.90	80.19
	2.50	633.40	80.56
NO.17	12.50	645.90	80.18
	11.60	657.50	79.81
	3.50	661.00	80.25
	9.90	670.90	80.27
	9.10	680.00	80.34
	4.30	684.30	81.70
	2.30	686.60	81.70
	7.10	693.70	80.26
	7.10	700.80	80.14
NO.18	15.40	716.20	80.29
	12.20	728.40	80.21



NO.6	11.90	222.70	81.61
	7.00	229.70	81.73
	4.30	234.00	81.81
	16.00	250.00	81.93
	14.00	264.00	82.09
	10.00	274.00	81.94
	18.00	292.00	82.14
NO.7	8.00	300.00	82.11
	11.00	311.00	81.49
	9.00	320.00	80.63
	8.90	329.50	80.08
	5.80	334.10	80.87
	5.40	339.50	80.43
NO.7	6.00	345.50	81.11
NO.8	4.50	350.00	82.10
	11.90	361.00	82.20
	17.20	379.10	82.12
	13.00	392.10	81.79
NO.9	7.90	400.00	81.66
	17.40	417.40	81.68
	10.70	428.10	81.20
	8.70	438.60	81.45
NO.10	13.20	452.00	81.57
	5.20	458.50	81.57
	5.30	463.50	81.53
	6.40	463.90	80.44
	5.30	471.30	80.74
NO.11	5.80	473.00	81.10
	7.40	482.40	80.97
	7.60	490.00	80.80
NO.12	19.00	503.00	80.77
	4.30	507.00	80.80
	6.80	514.00	81.52
	2.30	517.00	80.53
	4.00	522.50	79.71
NO.13	7.00	532.00	79.28
	4.80	541.80	80.00
	4.20	541.00	80.88
NO.14	9.00	550.00	80.88
	12.50	562.50	80.84
	6.50	571.00	80.80
	9.00	580.00	80.87
NO.15	13.20	593.20	80.12
	2.80	598.00	80.04
	2.80	603.00	80.81
	12.00	612.00	80.20
	8.00	620.00	80.87
	13.50	630.50	80.84
NO.16	13.50	640.00	80.85
	2.00	642.00	80.84
	2.00	645.00	80.77
	2.50	648.50	80.86
NO.16	12.50	675.00	80.18
	11.00	685.00	79.84
	3.50	690.10	80.23
NO.17	9.90	700.00	80.27
	6.10	704.10	80.34
	2.70	707.80	79.70
	3.80	713.00	80.24
	7.10	722.40	80.14
NO.18	15.40	737.80	80.29
	12.20	750.00	80.21
	21.70	777.70	80.21
NO.18	20.40	782.10	80.11
	7.90	800.00	80.20
	6.50	808.50	80.36
	15.90	822.40	80.10
	7.90	830.50	80.44
NO.20	19.70	850.00	80.36
	13.40	861.40	80.64
	3.80	865.30	80.77
	7.70	877.60	80.85
	6.10	884.00	80.11
	6.20	892.50	79.92
	4.80	898.00	80.82
NO.21	2.70	903.70	81.09
	7.40	909.50	80.43
	10.70	920.20	79.66
	14.10	934.30	79.70
NO.22	15.70	950.00	79.36
	2.80	952.80	79.57
	4.00	956.70	79.50
	4.00	960.70	79.60
	10.30	979.00	79.50
	10.50	988.50	79.62
NO.23	11.50	1000.00	79.15

JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN
 FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
 POWER DEVELOPMENT PROJECT
 UPPER TEKAI
 Longitudinal Profiling
 FIGURE 4-3

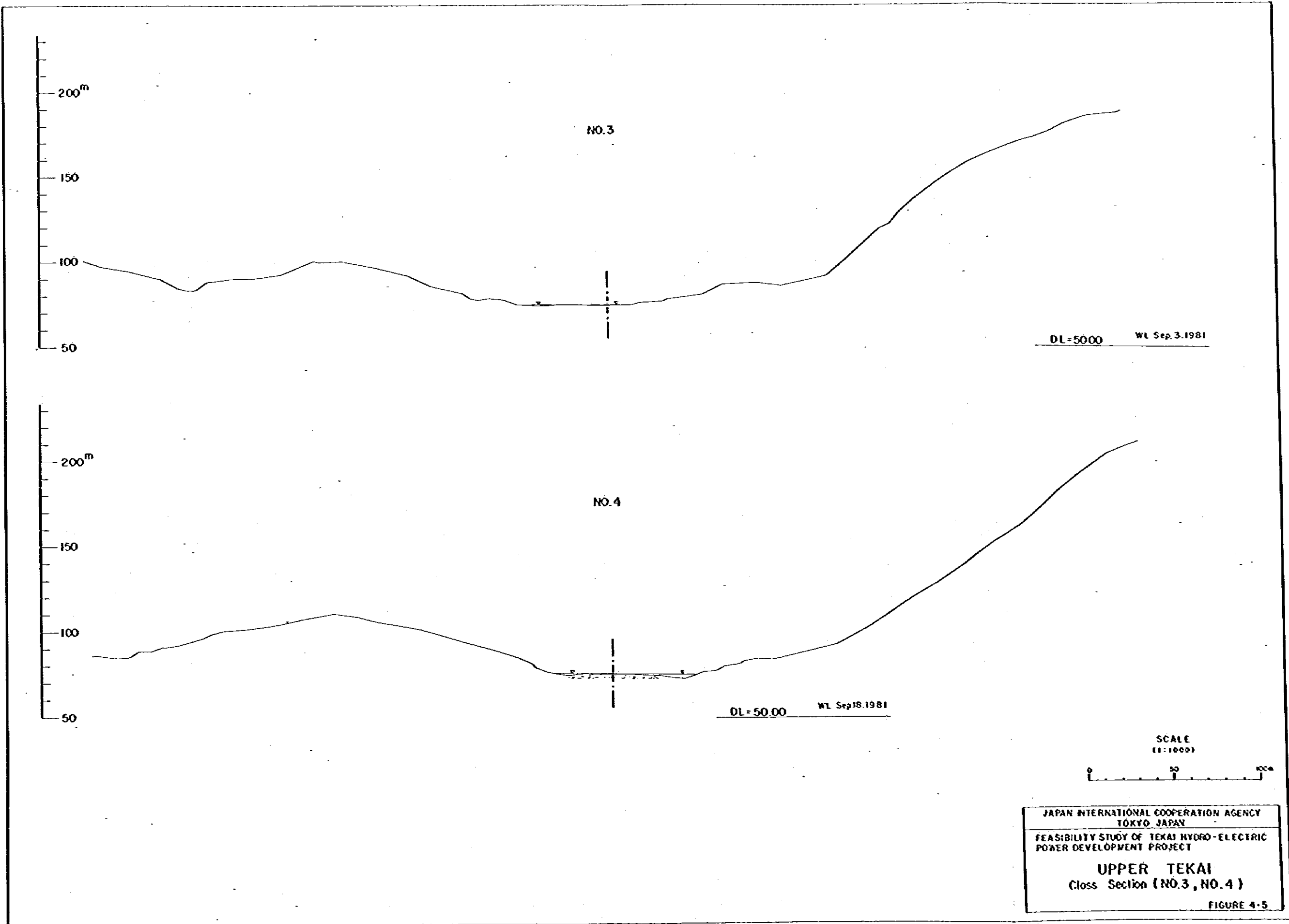


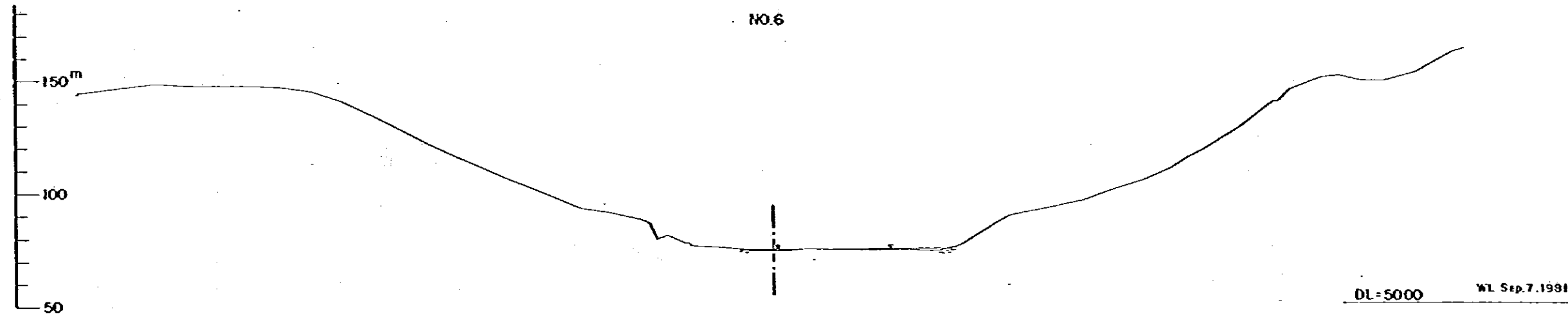
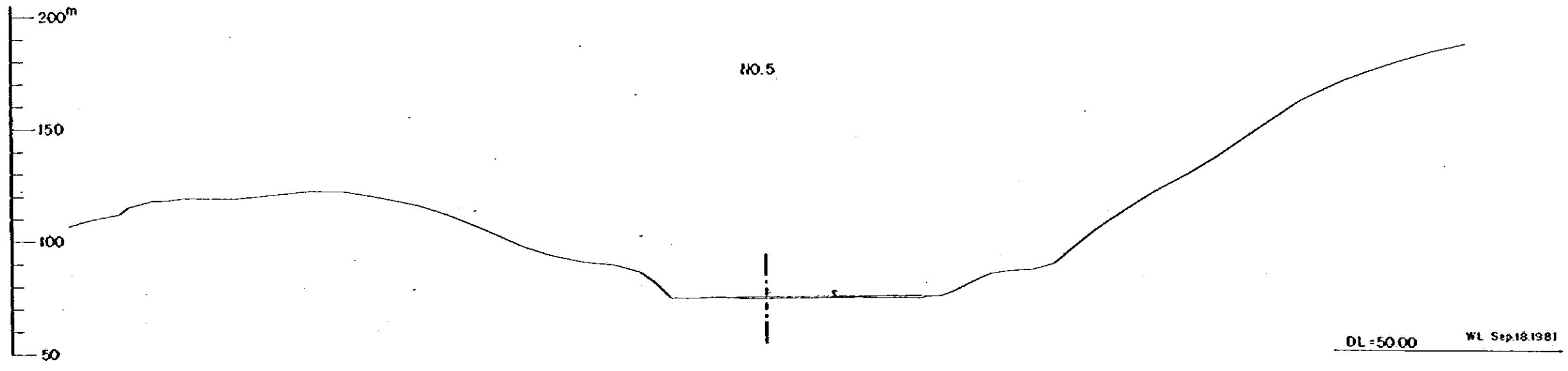
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT

UPPER TEKAI
Cross Section (NO.1, NO.2)

FIGURE 4-4



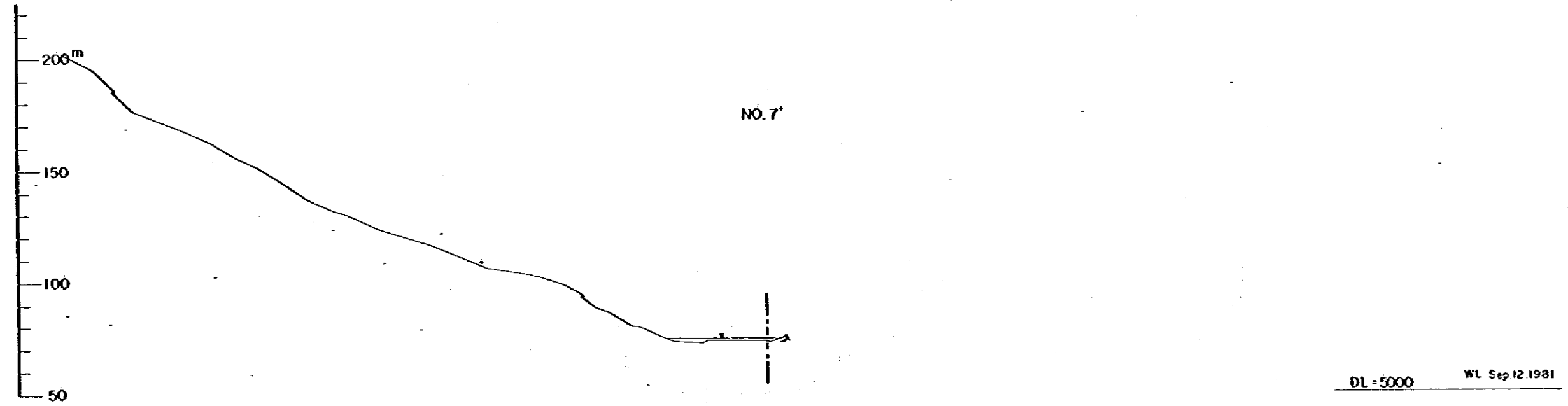
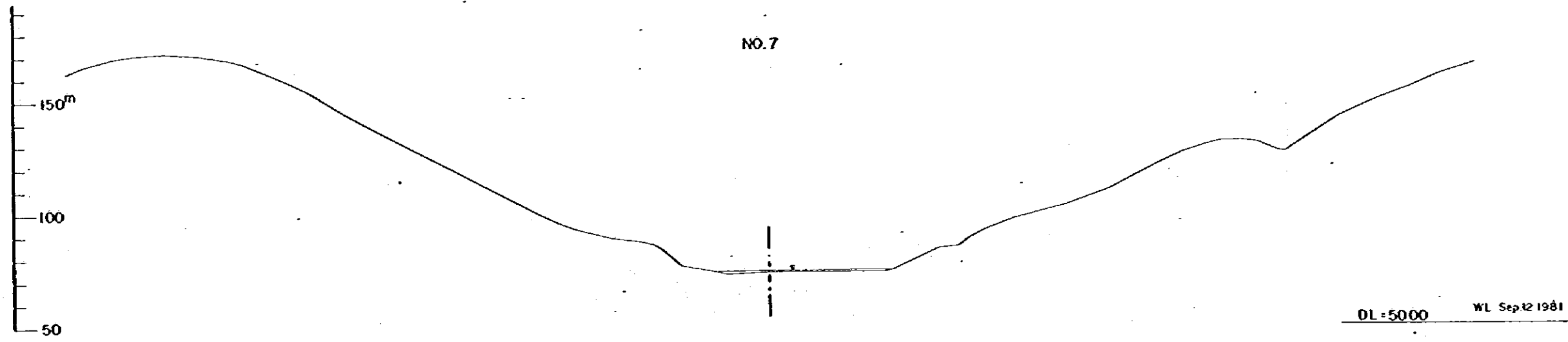


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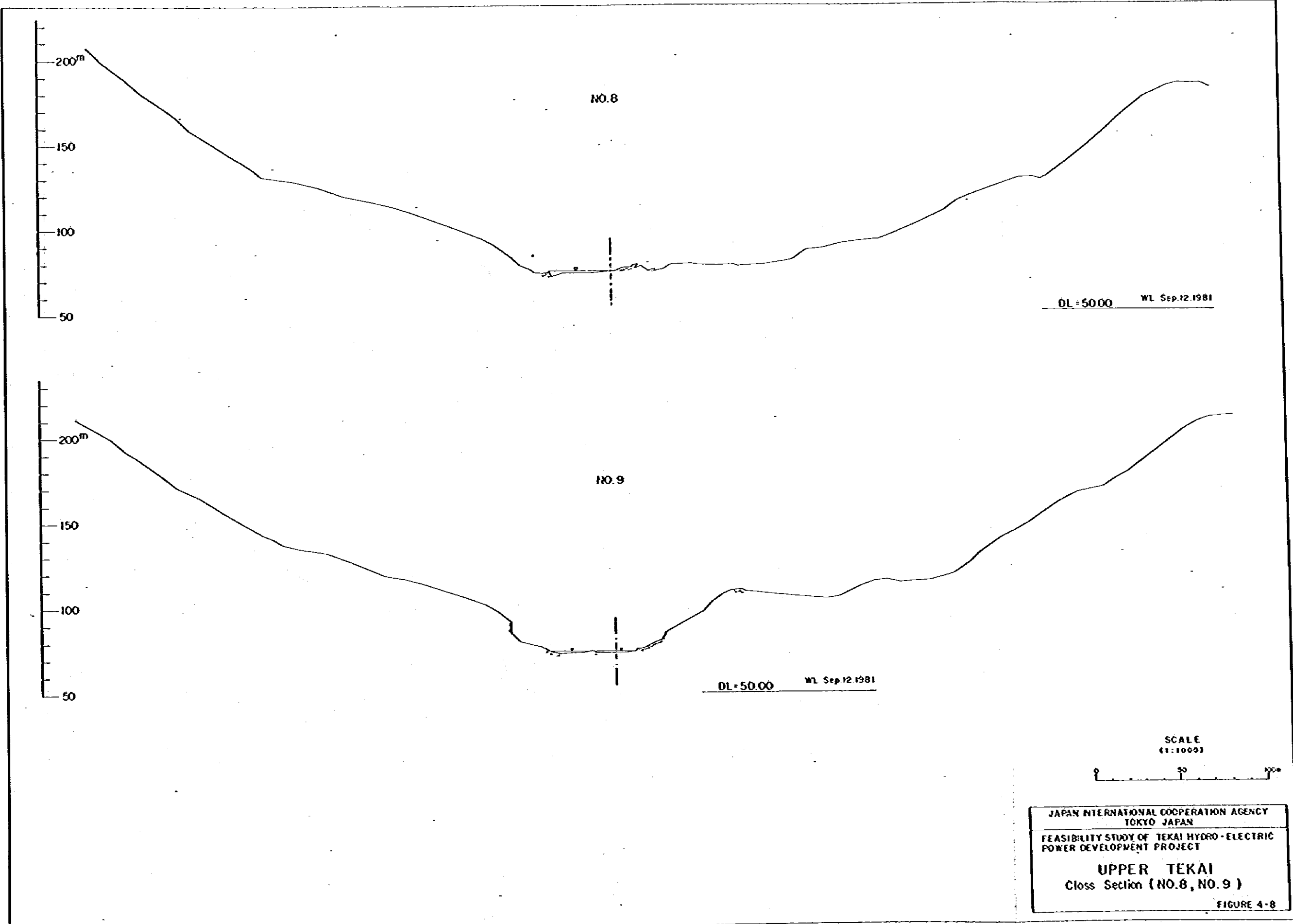
FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT

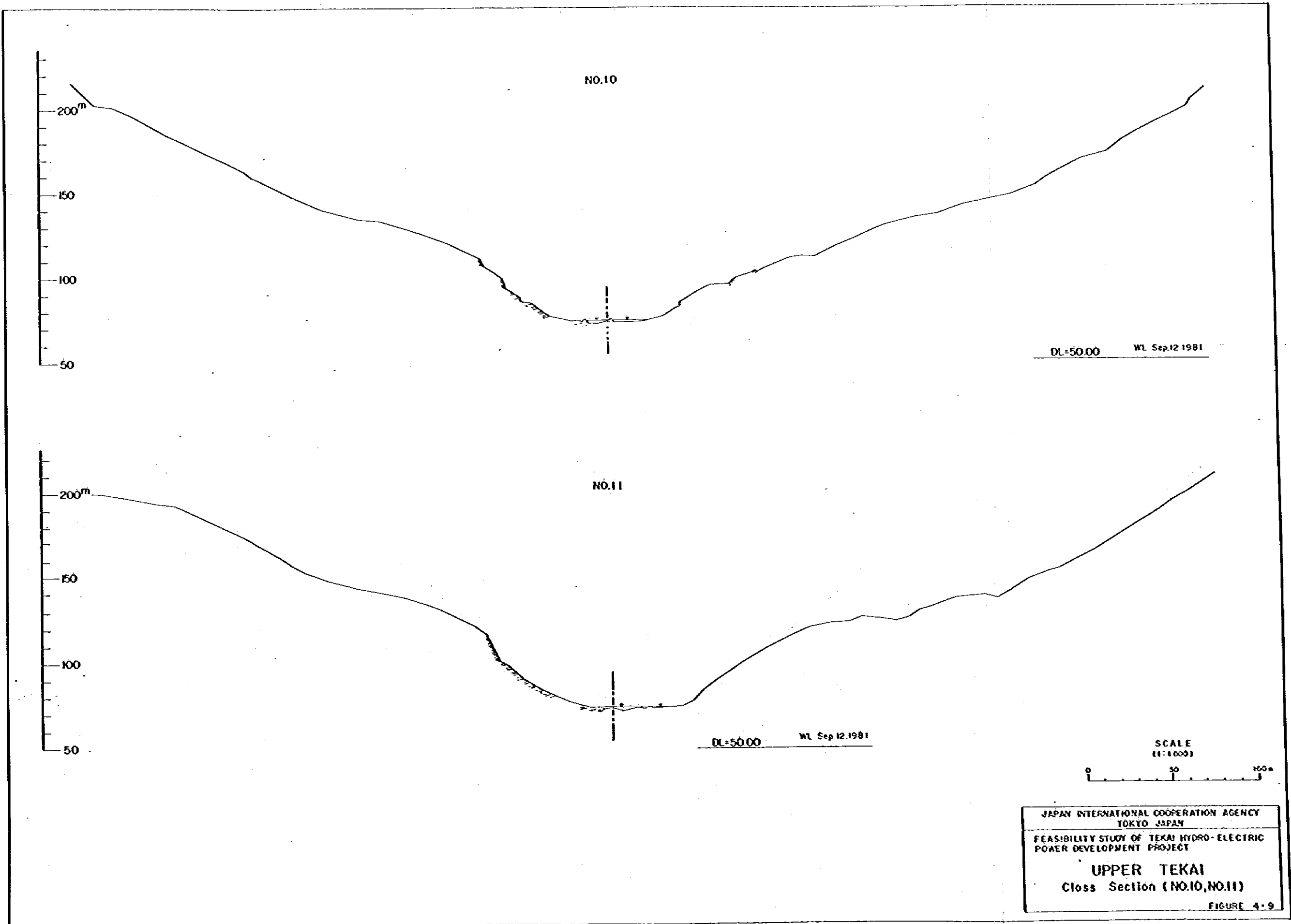
UPPER TEKAI
Cross Section (NO.5, NO.6)

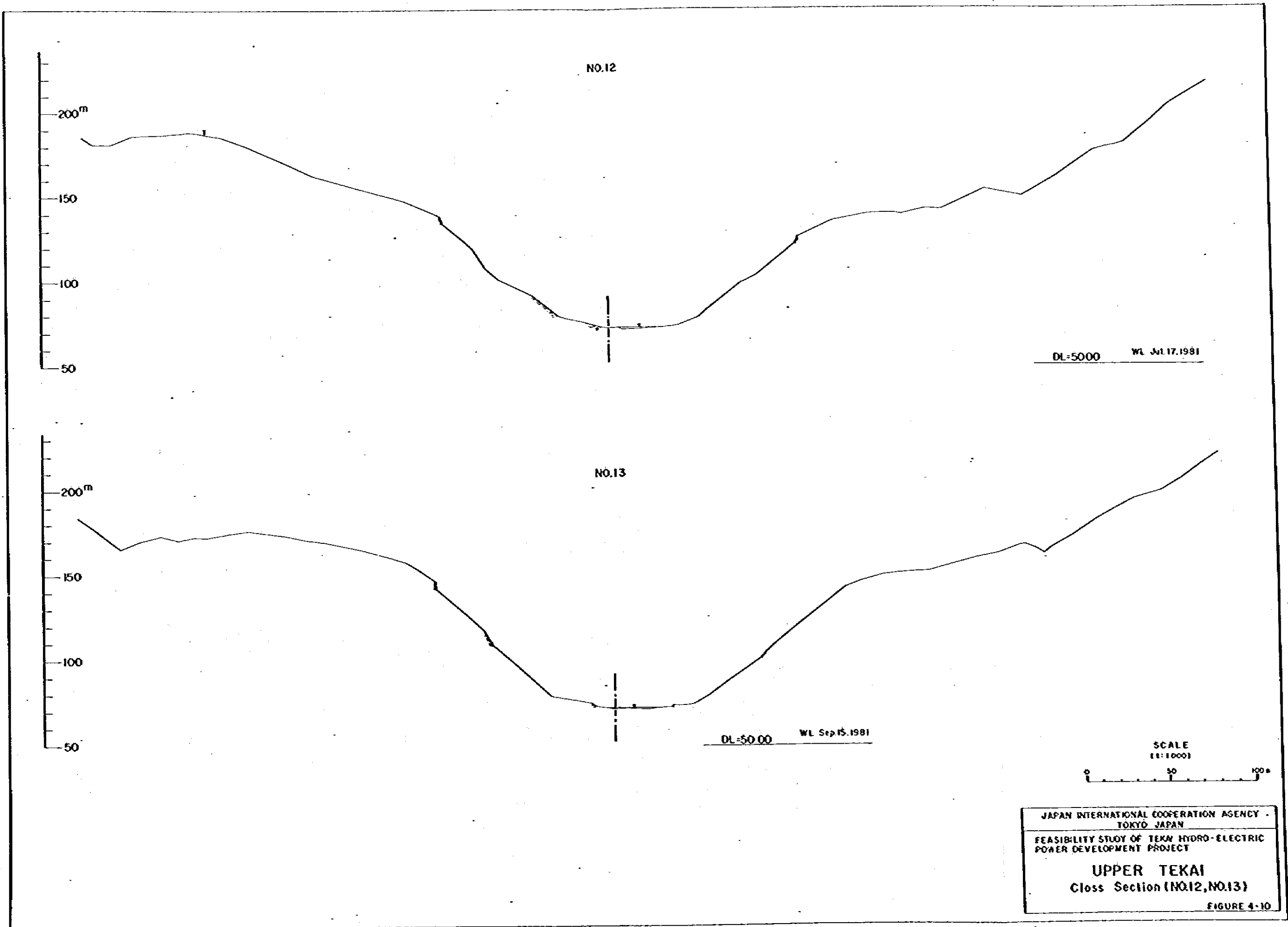
FIGURE 4-6

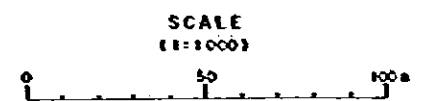
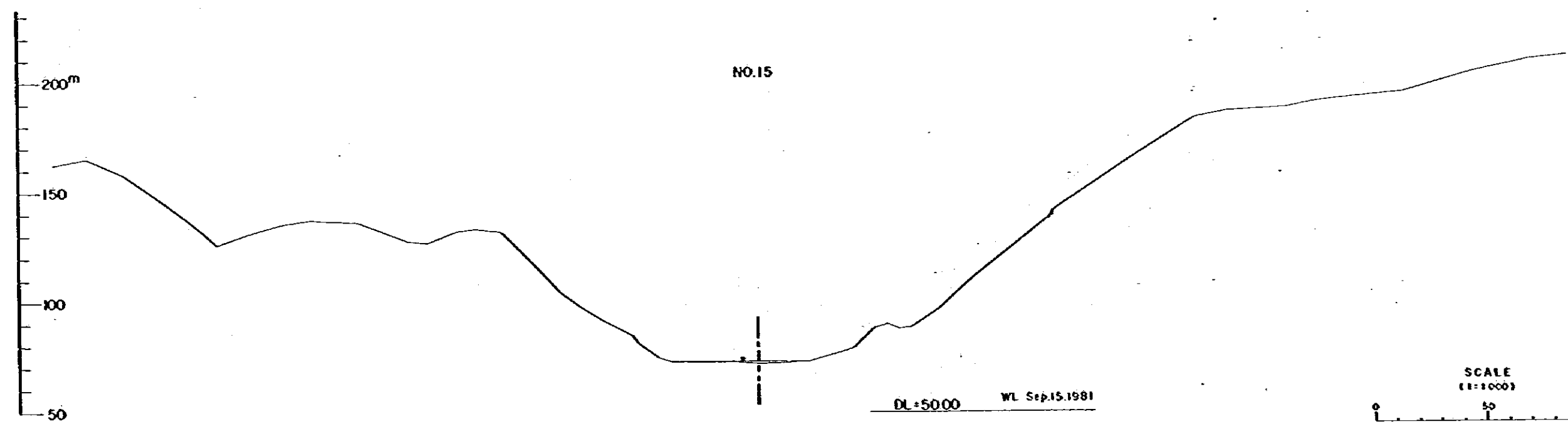
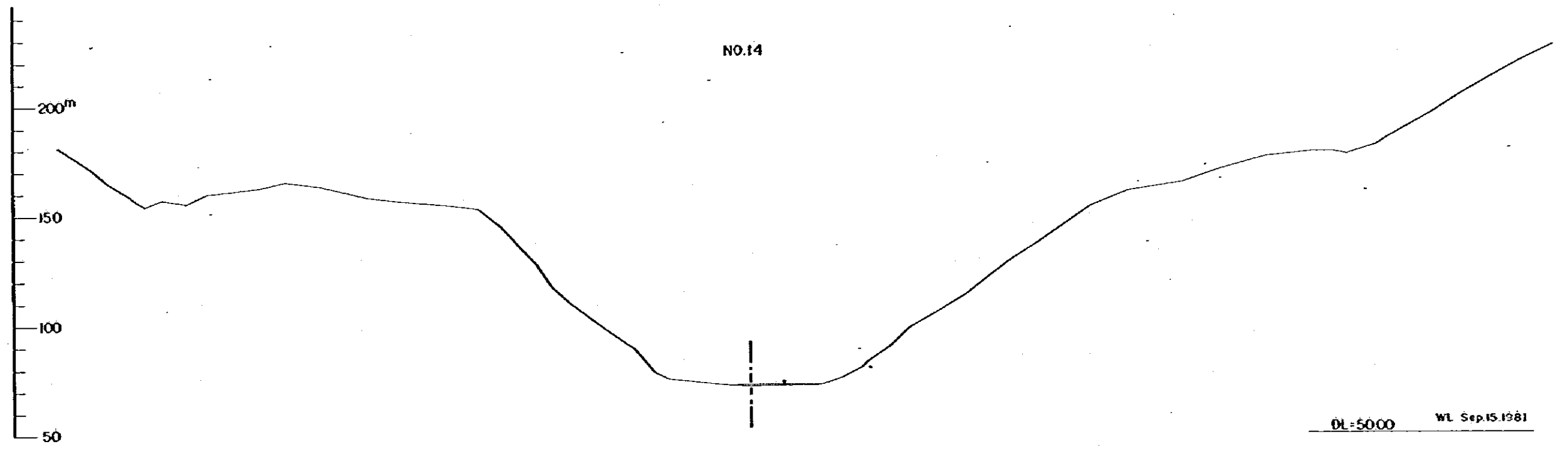


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TOKYO JAPAN
FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT
UPPER TEKAI
Cross Section (NO.7, NO.7')
FIGURE 4-7







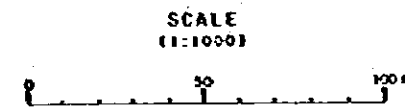
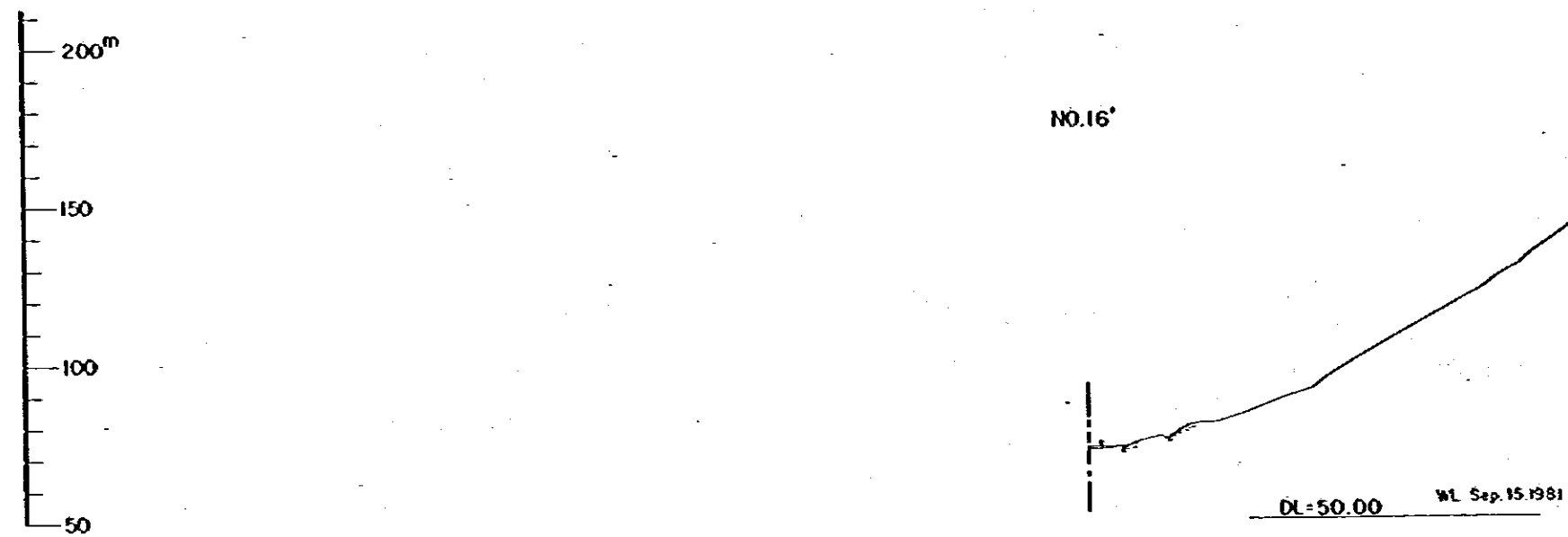
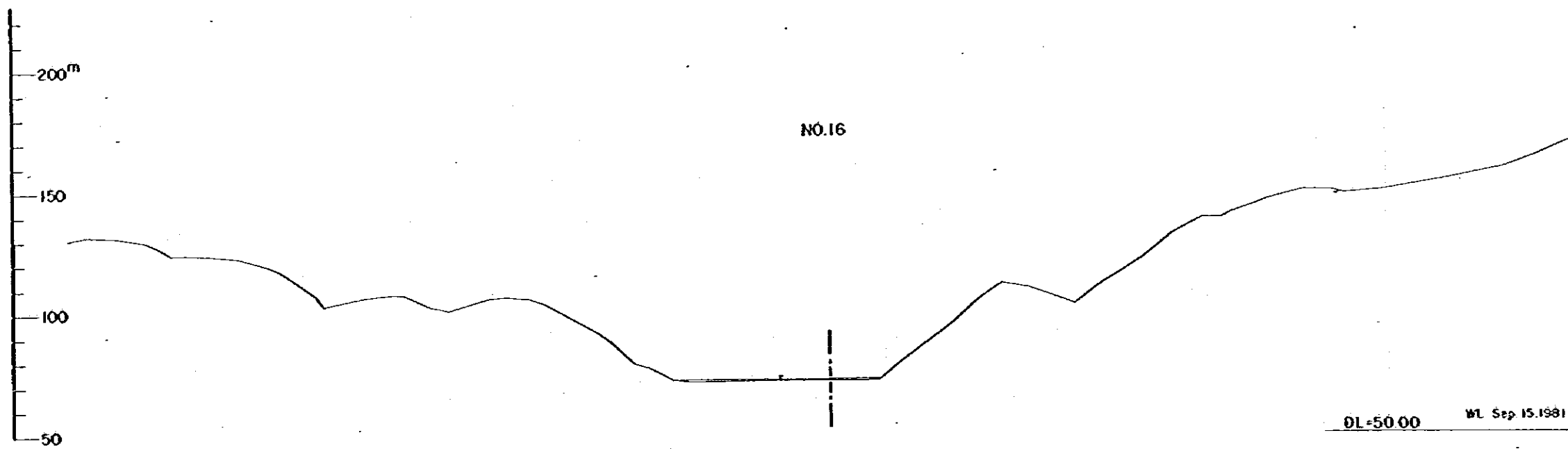


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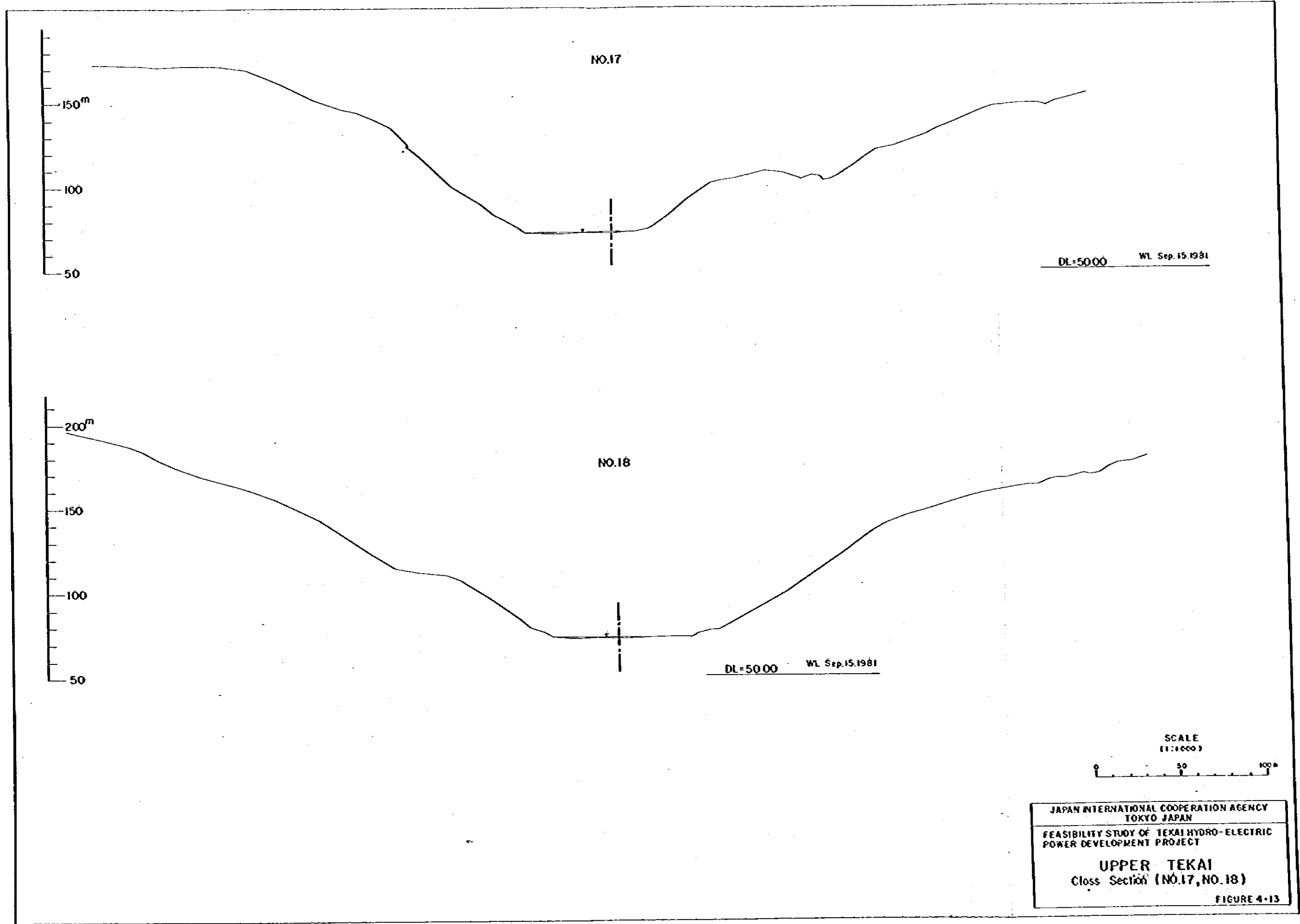
FEASIBILITY STUDY OF TEKA HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT

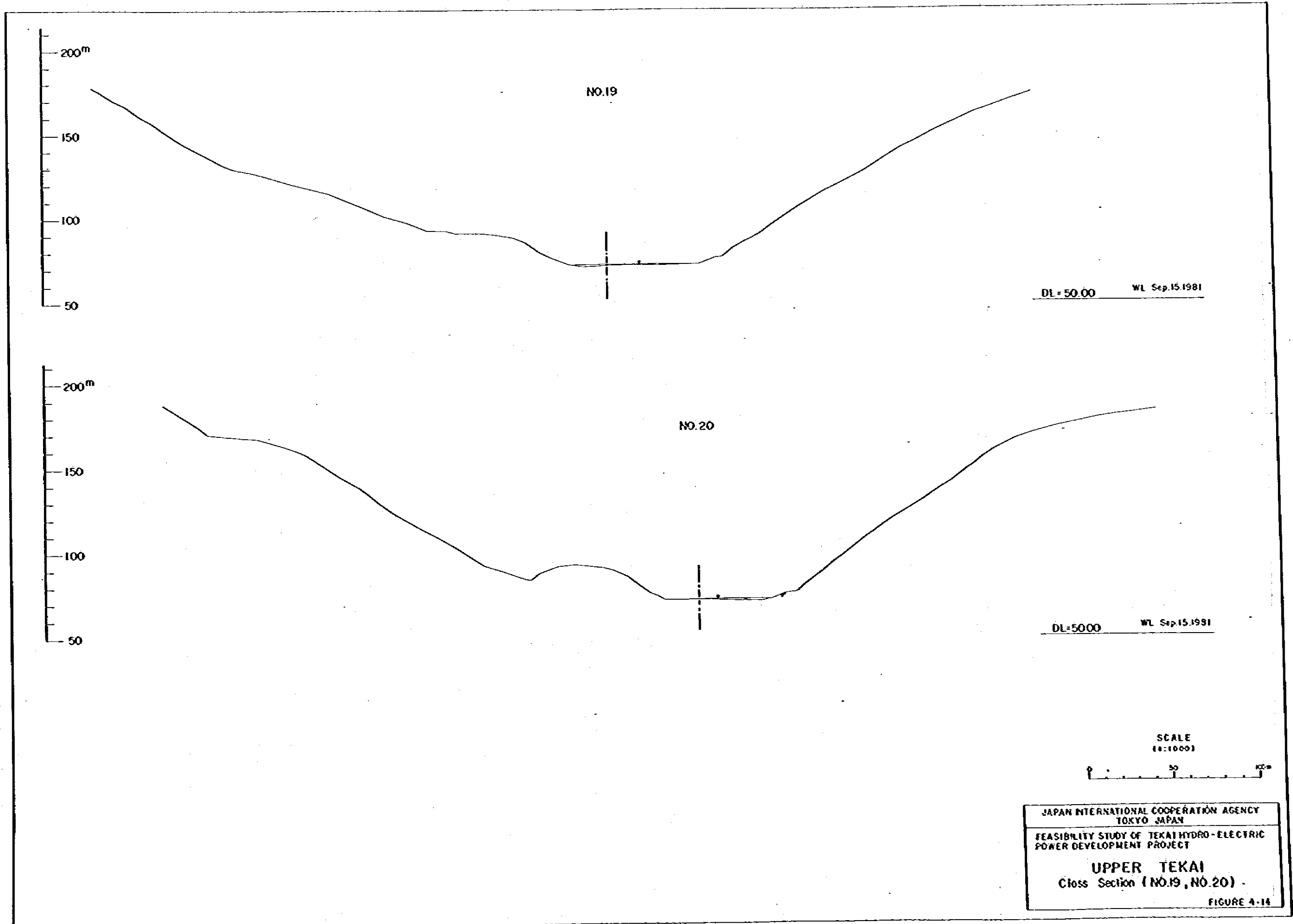
UPPER TEKA
Cross Section (NO.14, NO.15)

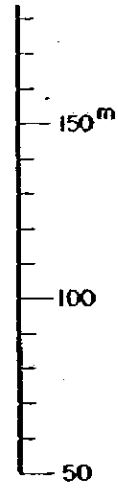
FIGURE 4-11



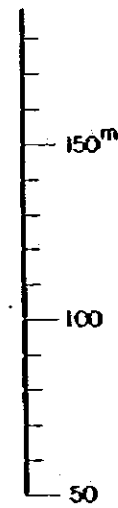
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN
FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT
UPPER TEKAI
Cross Section (NO.16, NO.16')
FIGURE 4-12







NO. 21



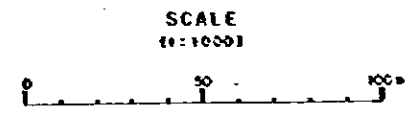
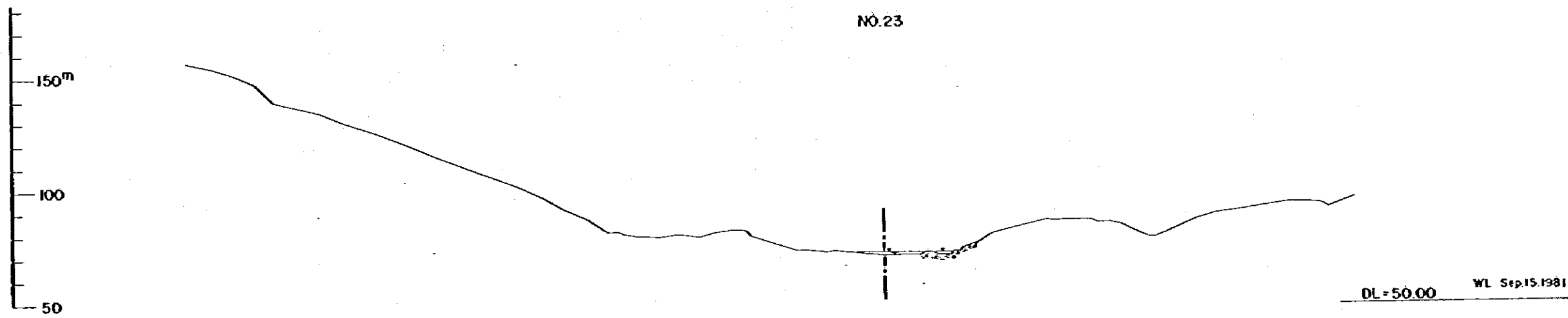
NO. 22

DL=5000 WL Sep.15.1981

DL=50.00 WL Sep.15.1981



JAPAN INTERNATIONAL COOPERATION AGENCY
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FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT
UPPER TEKAI
Cross Section (NO.21, NO.22)
FIGURE 4-15

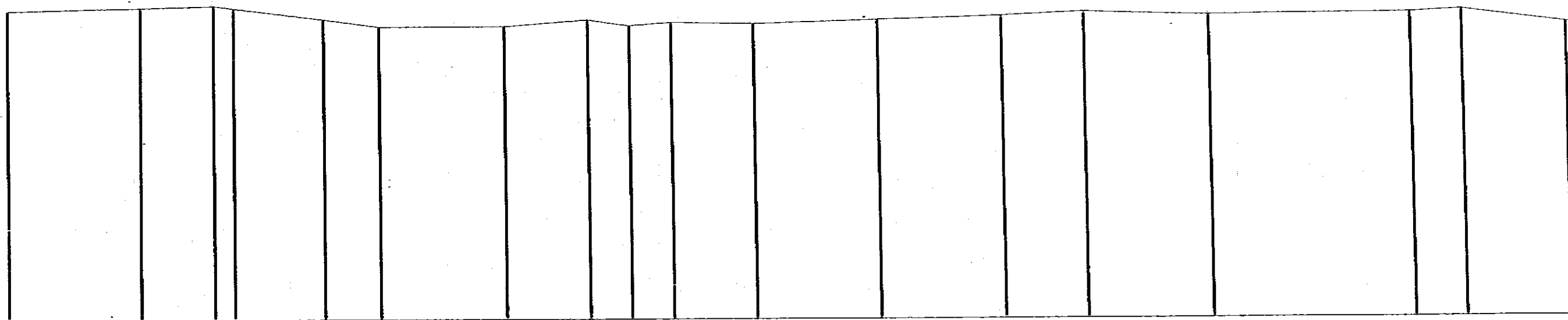
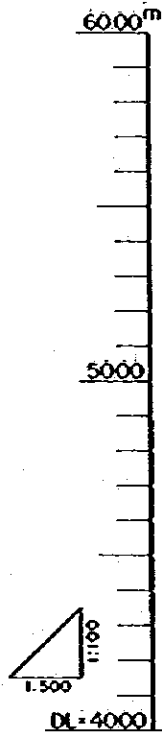


JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

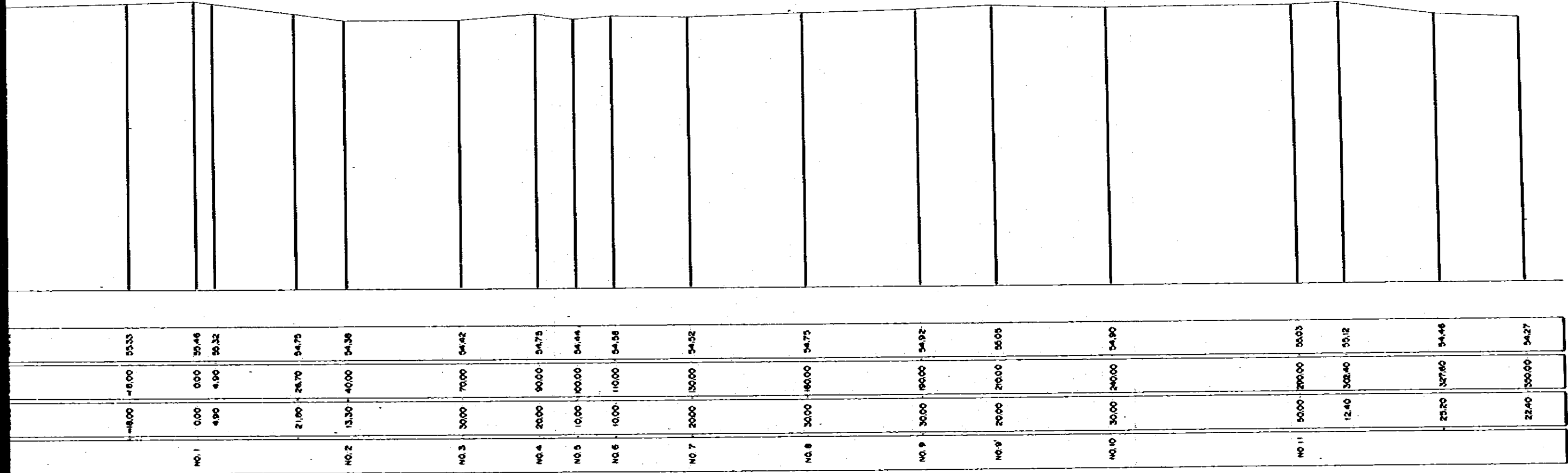
FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT

UPPER TEKAI
Cross Section (NO. 23)

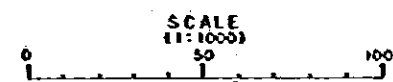
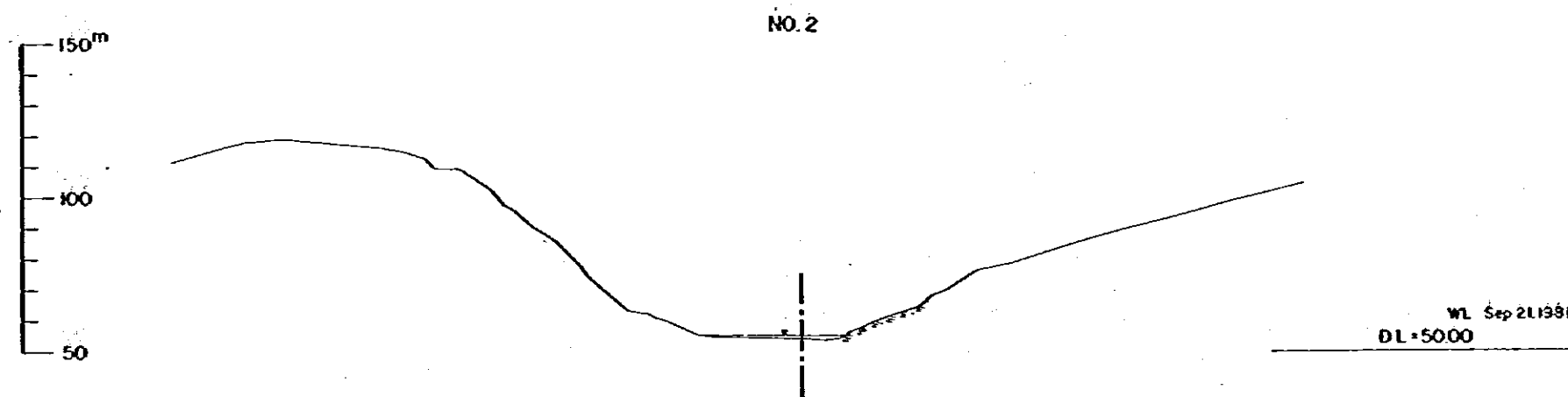
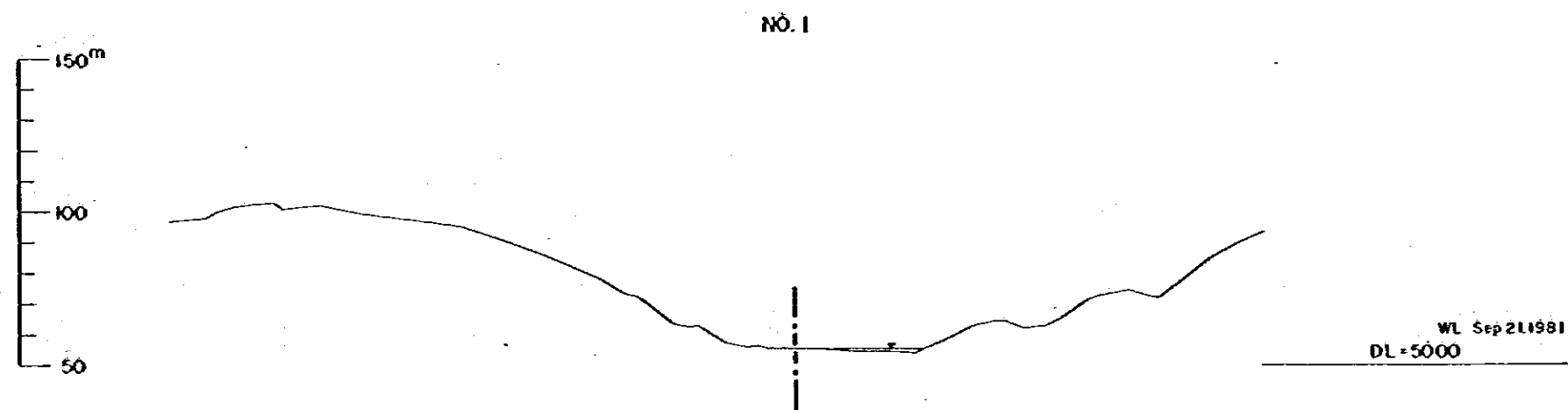
FIGURE 4-16



Station	Distance	Total Distance	Ground Height
NO. 0	0.00	0.00	55.22
	4.90	4.90	55.33
	21.60	26.50	54.75
	43.30	49.80	54.38
	70.00	79.70	54.42
	100.00	109.70	54.75
	130.00	139.60	54.44
	160.00	169.50	54.56
	190.00	199.40	54.82
	220.00	229.30	54.75
	250.00	259.20	54.92
	280.00	289.10	55.05
	310.00	319.00	54.90
	340.00	348.90	55.03
	370.00	378.80	55.12
	400.00	408.70	55.05



JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN
 FEASIBILITY STUDY OF TEXAI HYDRO-ELECTRIC
 POWER DEVELOPMENT PROJECT
LOWER TEKAI
 Longitudinal Profiling
 FIGURE 4-17

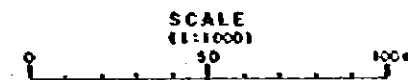
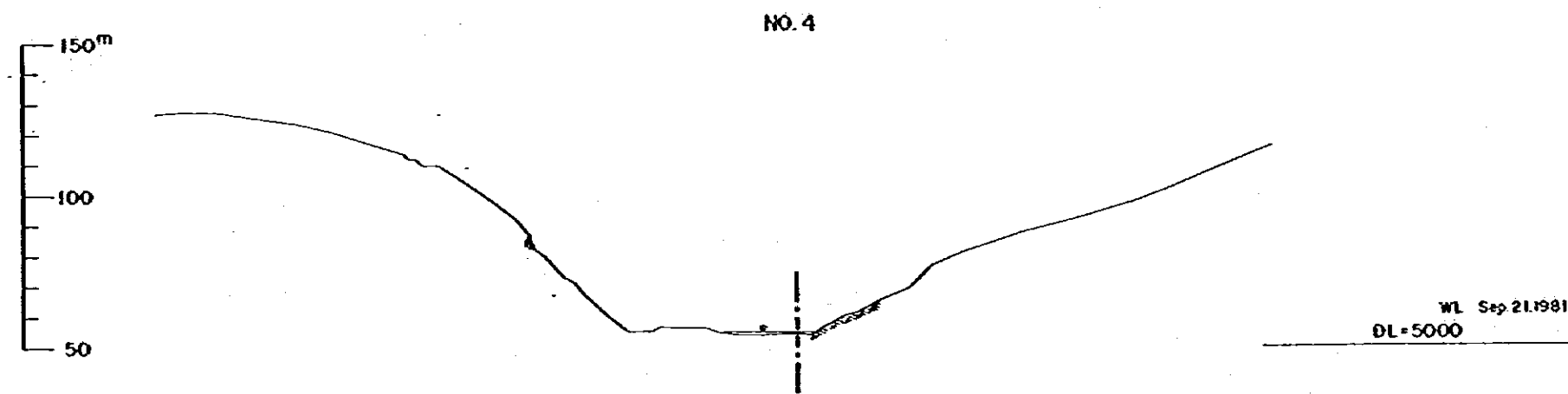
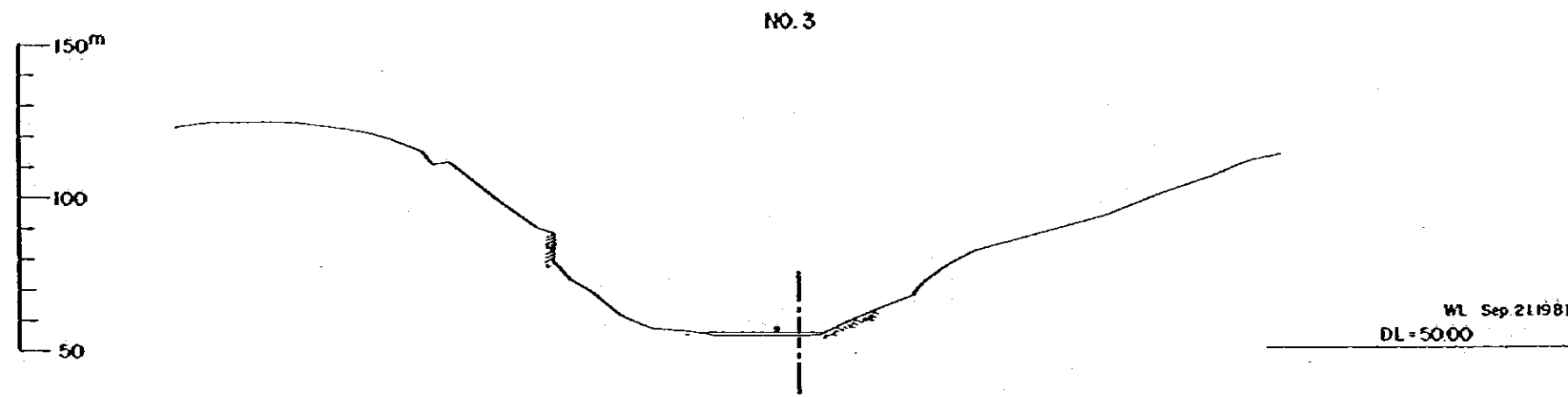


JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

FEASIBILITY STUDY OF TEXA HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT

LOWER TEKAI
Cross Section (NO.1, NO.2)

FIGURE 4-18

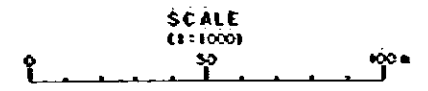
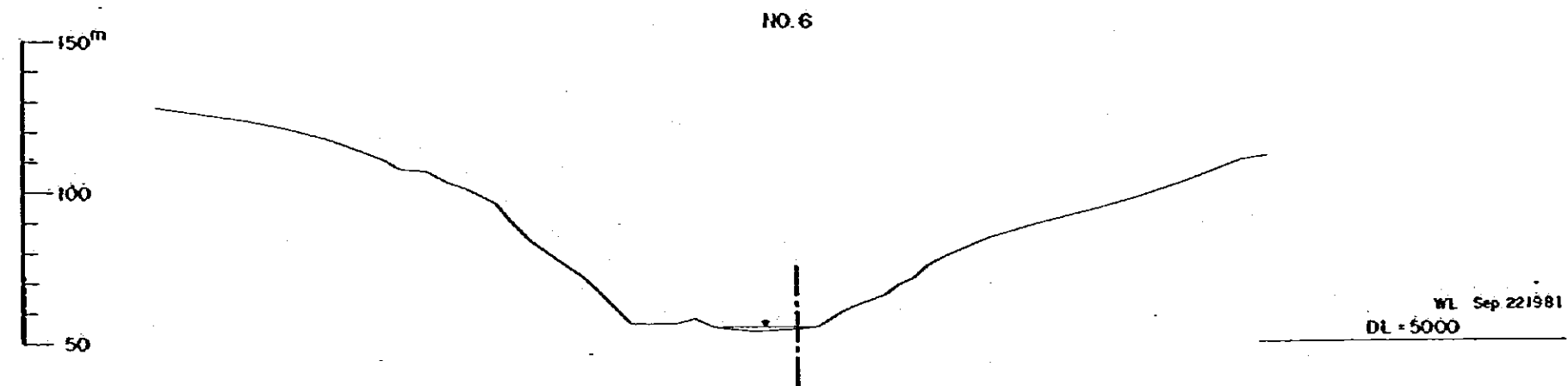
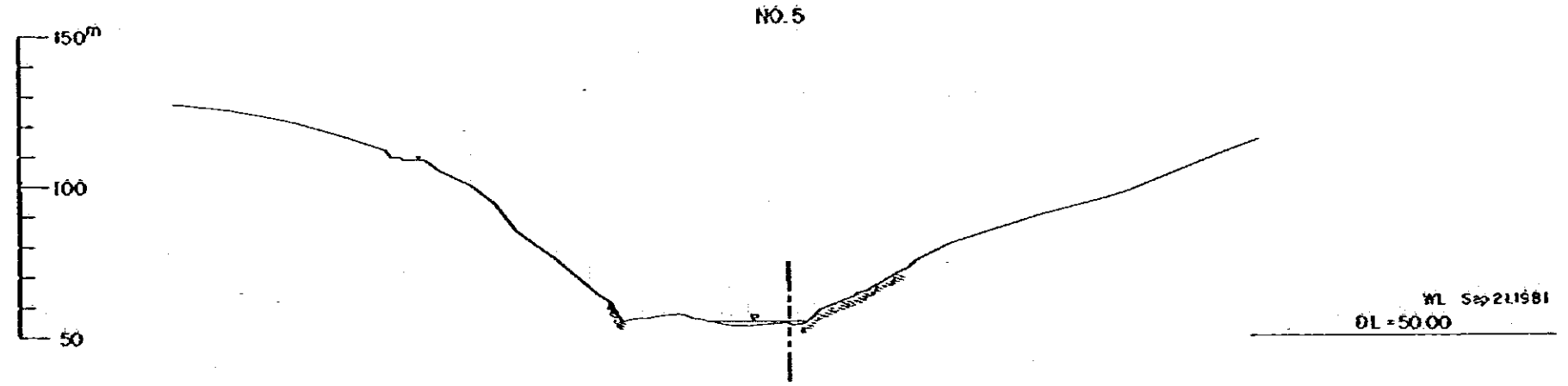


JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

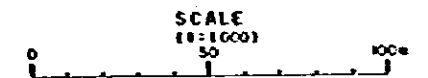
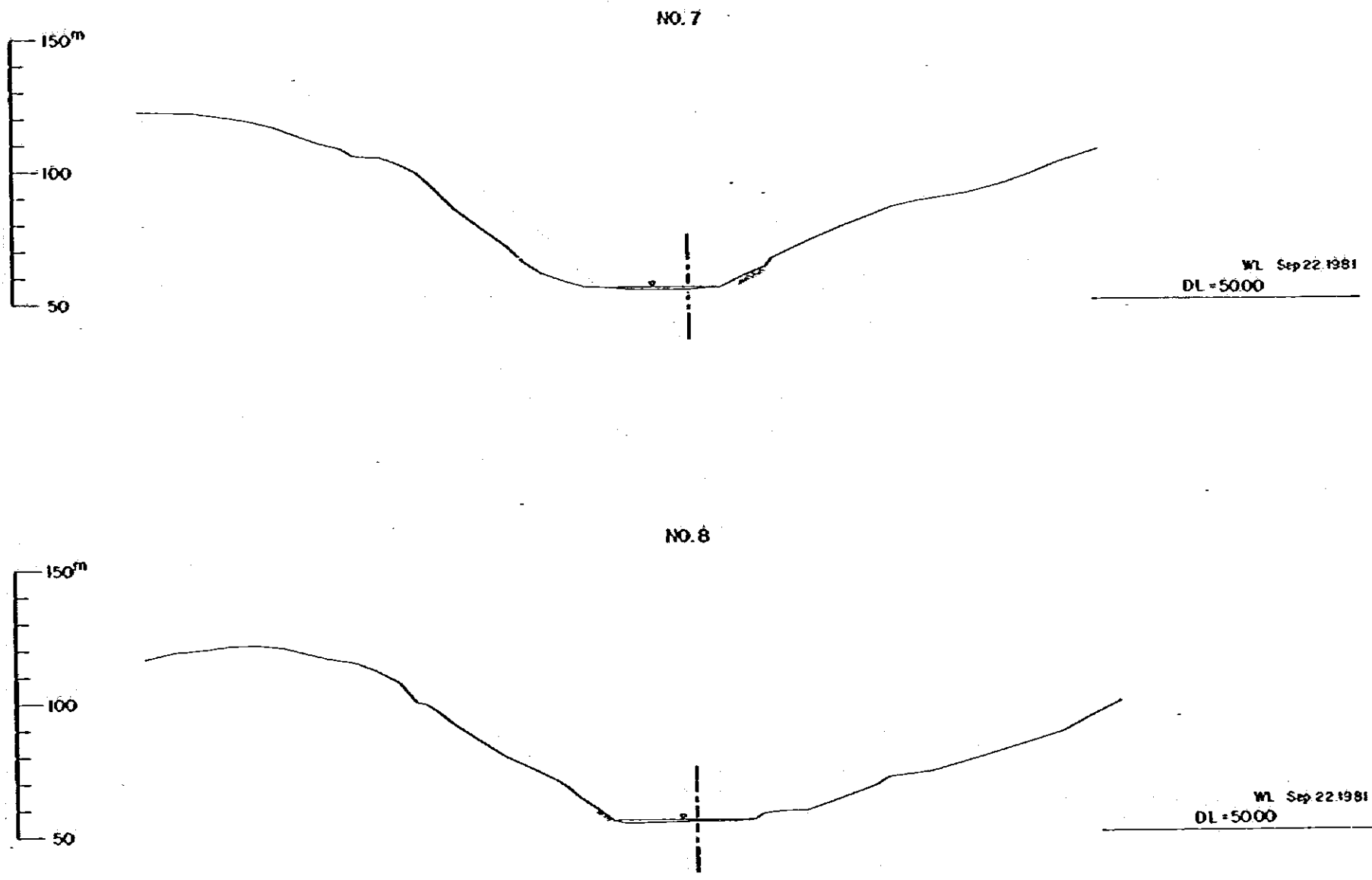
FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT

LOWER TEKAI
Cross Section (NO.3, NO.4)

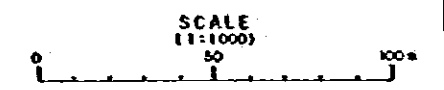
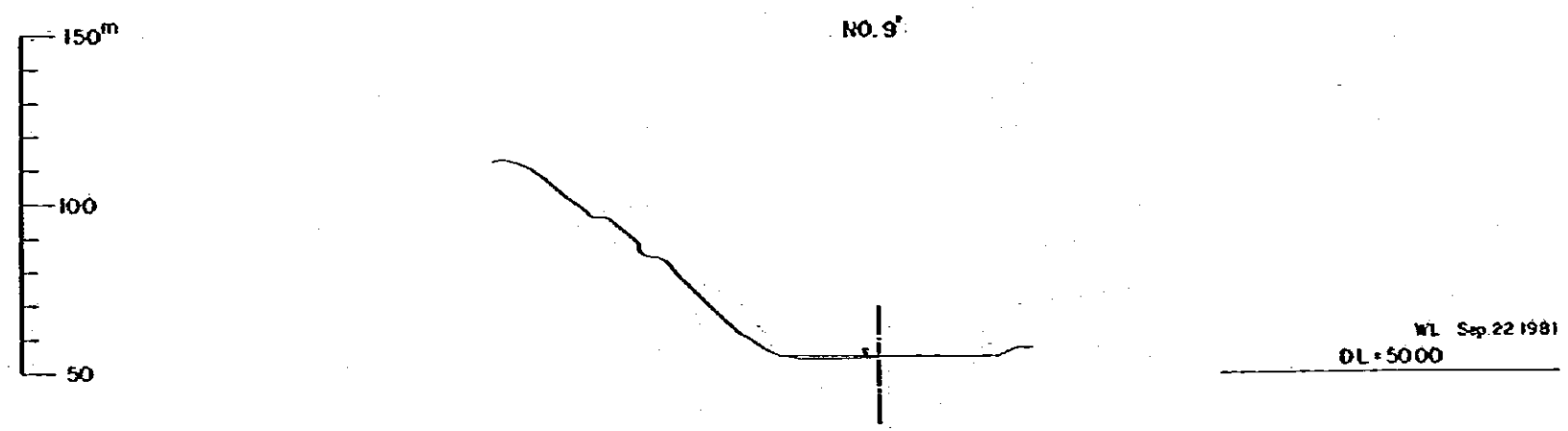
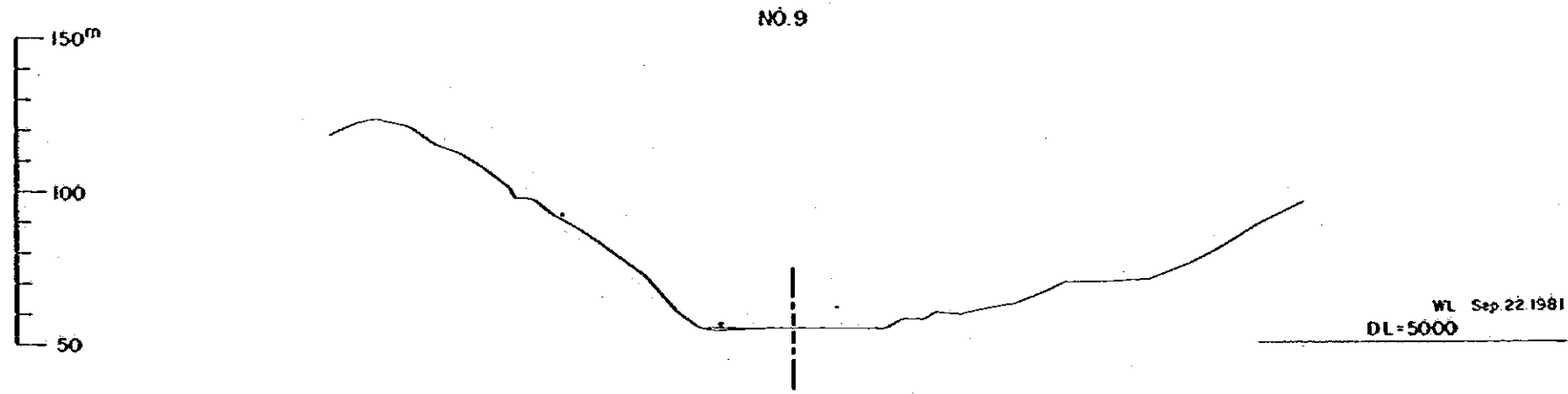
FIGURE 4-19



JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN
FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT
LOWER TEKAI
Cross Section (NO.5, NO.6)
FIGURE 4-20



JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN
FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT
LOWER TEKAI
Cross Section (NO.7, NO.8)
FIGURE 4-21

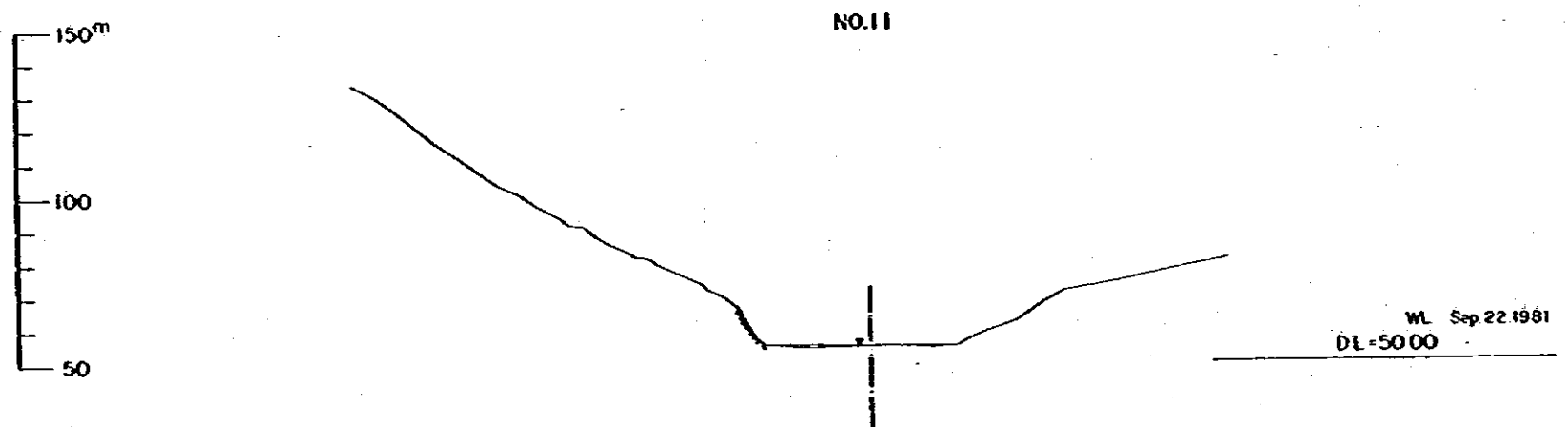
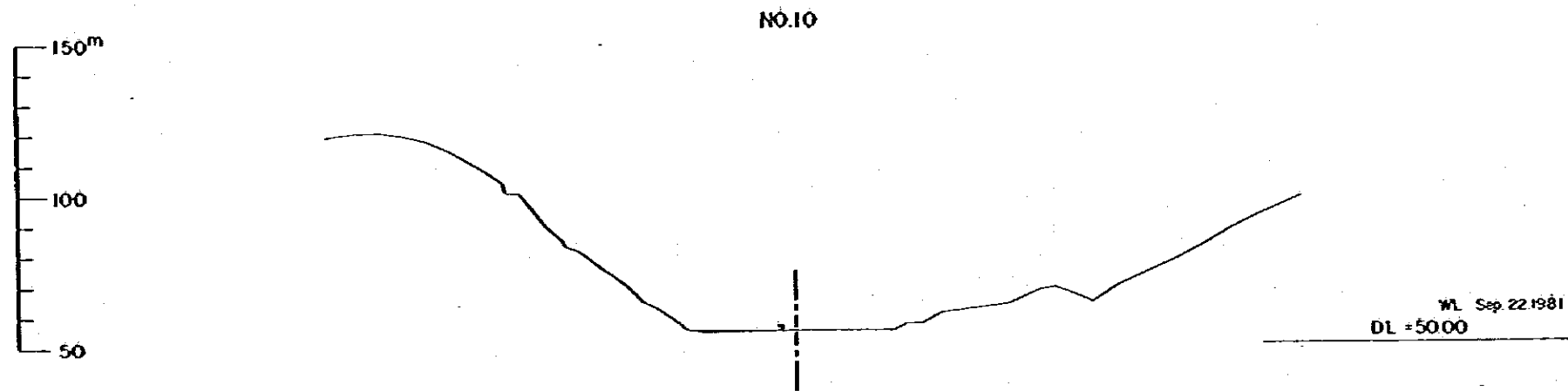


JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO, JAPAN

FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT

LOWER TEKAI
Cross Section (NO.9, NO.9')

FIGURE 4-22

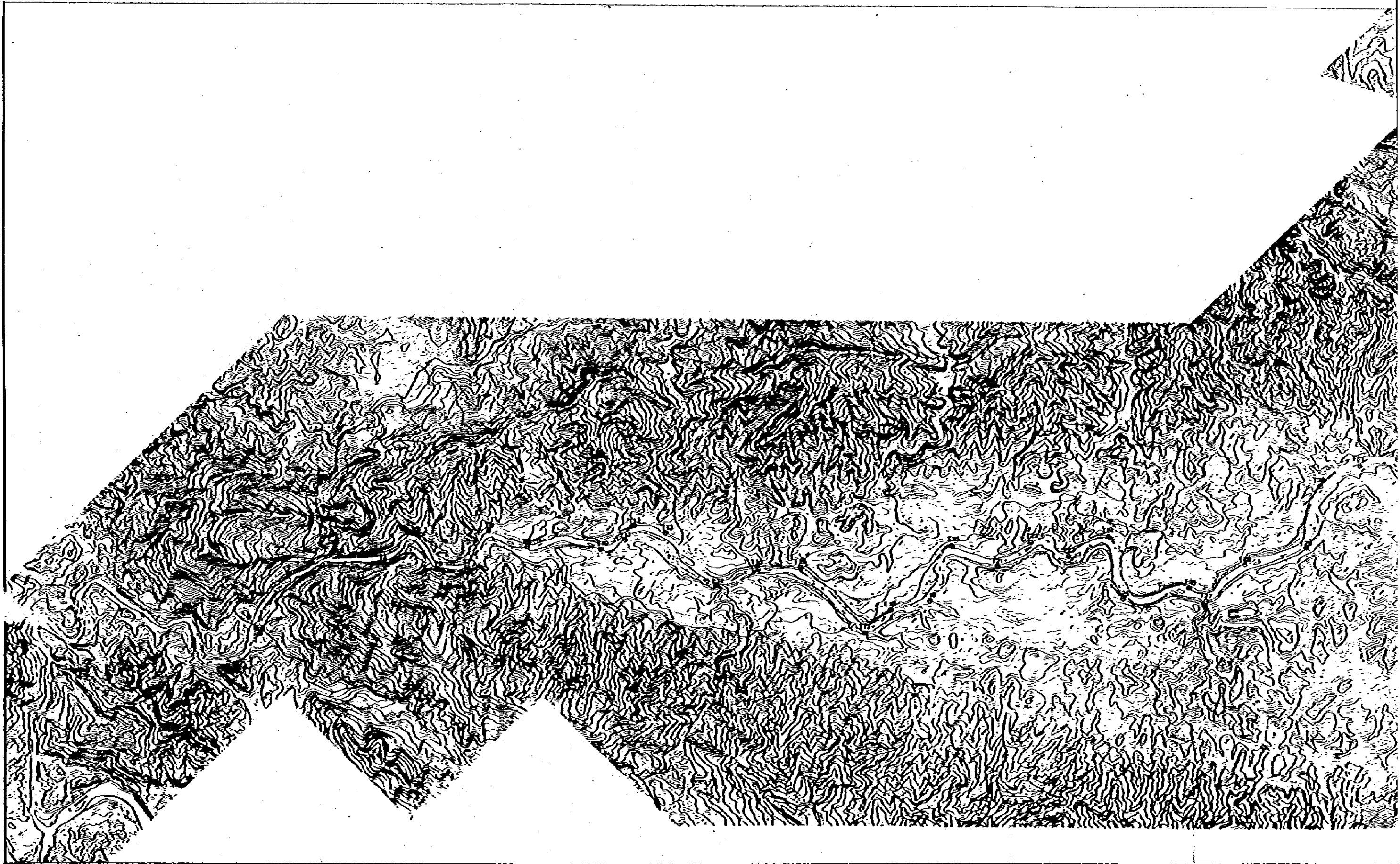


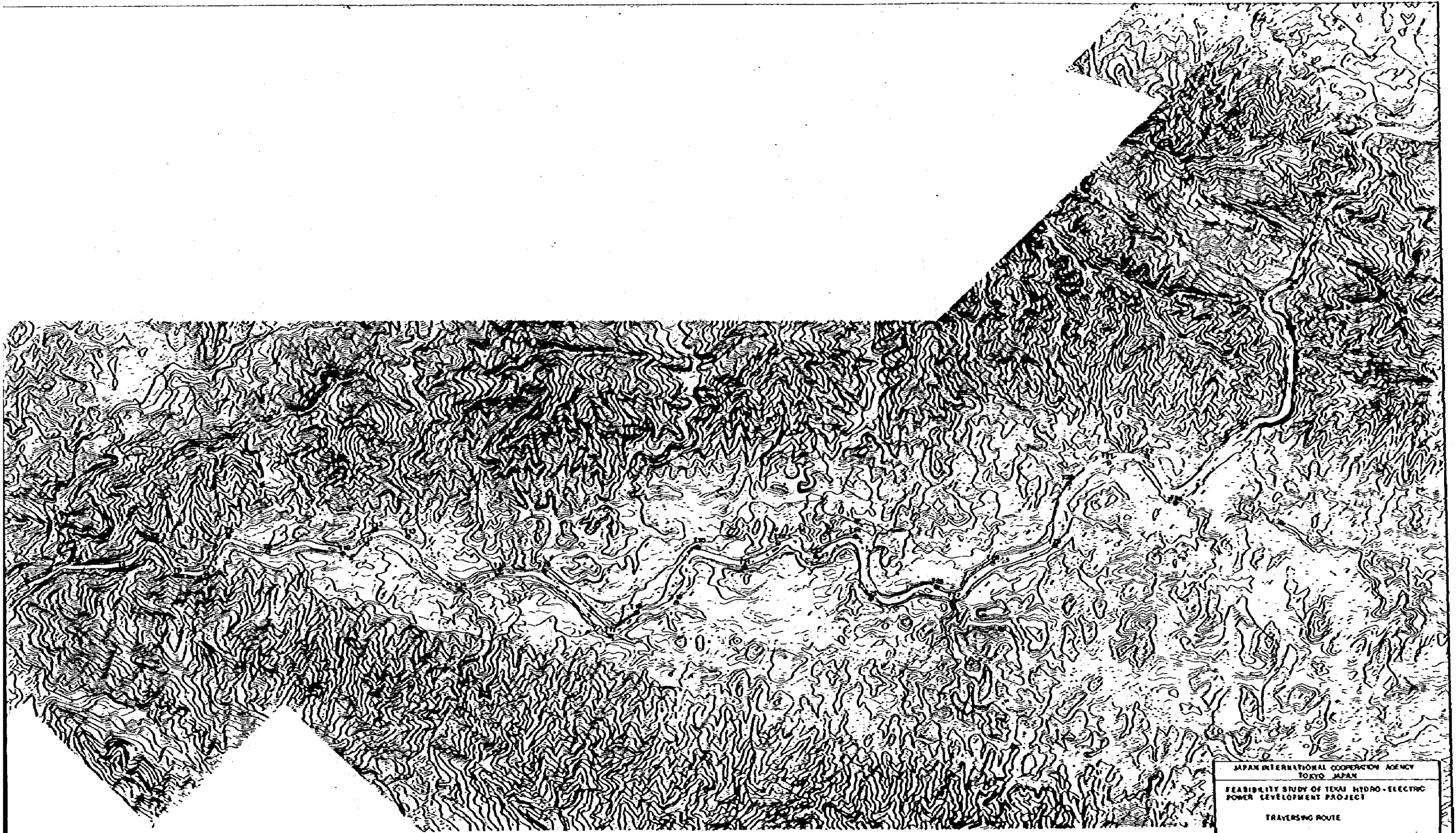
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

FEASIBILITY STUDY OF TEKAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT

LOWER TEKAI
Cross Section (NO.10, NO.11)

FIGURE 4-23

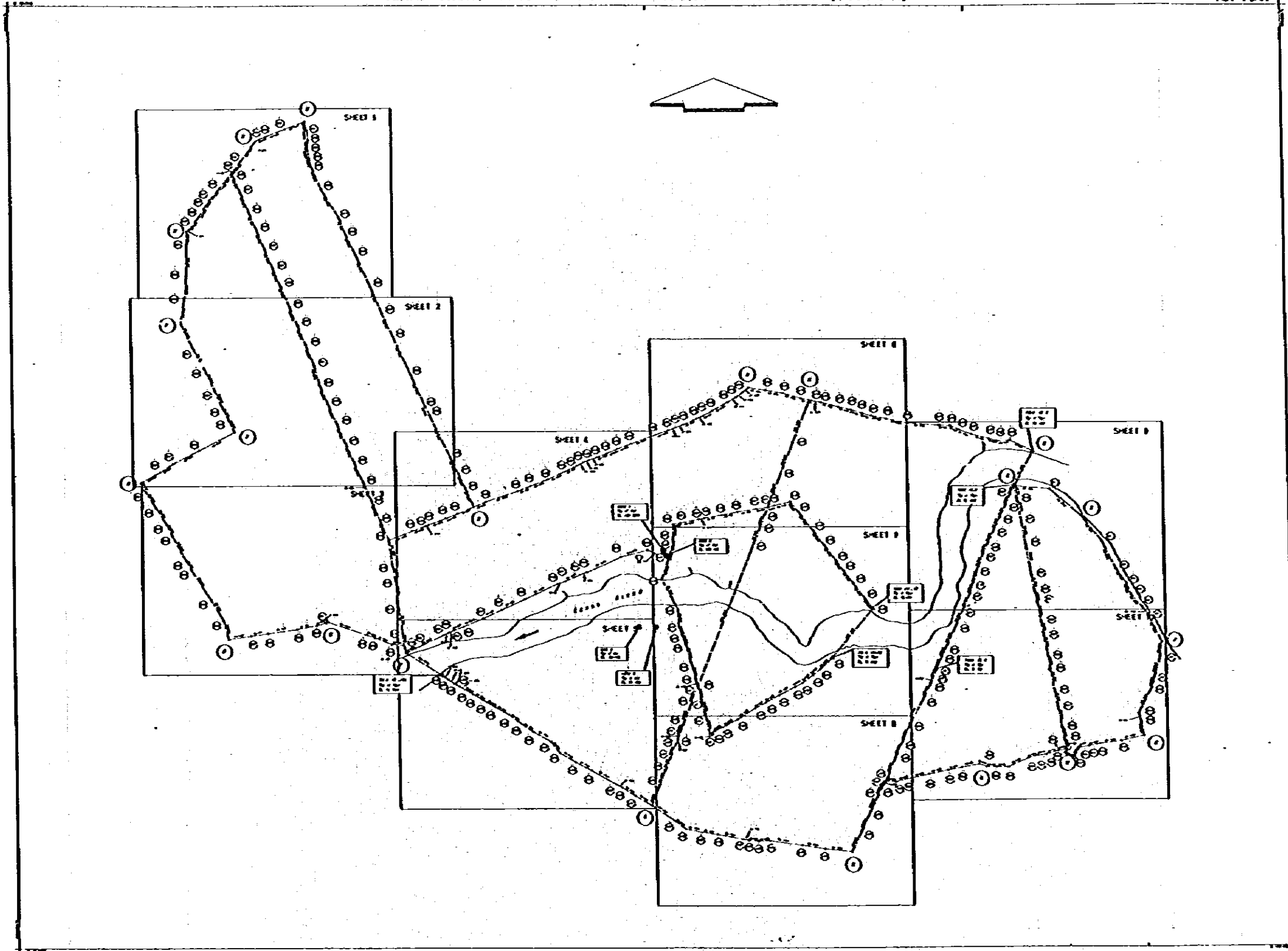




JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO, JAPAN
FEASIBILITY STUDY OF TERAI HYDRO-ELECTRIC
POWER DEVELOPMENT PROJECT
TRAVERSING ROUTE
FIGURE 51

TEKAI HYDRO-ELECTRIC POWER DEVELOPMENT PROJECT (UPPER DAM)

KEY PLAN



KEY

1. Main Road - 10m

2. Secondary Road - 5m

3. Track - 10m

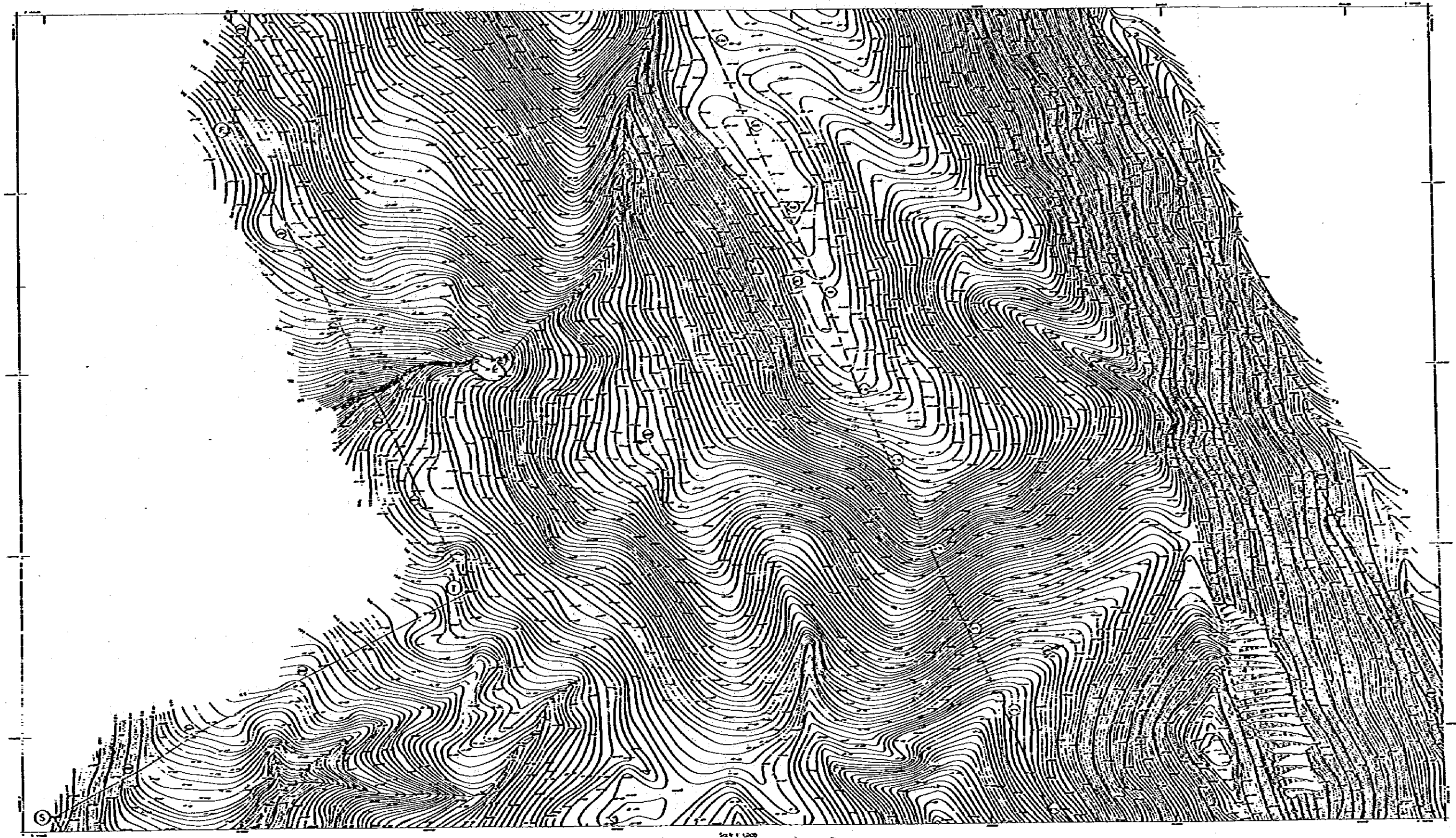
4. Track - 5m

- Main Road - 10m
- Secondary Road - 5m
- Track - 10m
- Track - 5m

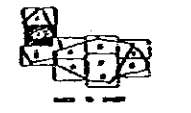
Map Scale: 1:50,000

Scale: 1:50,000

FIGURE 6-1



第 I 卷 英和共混

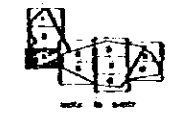
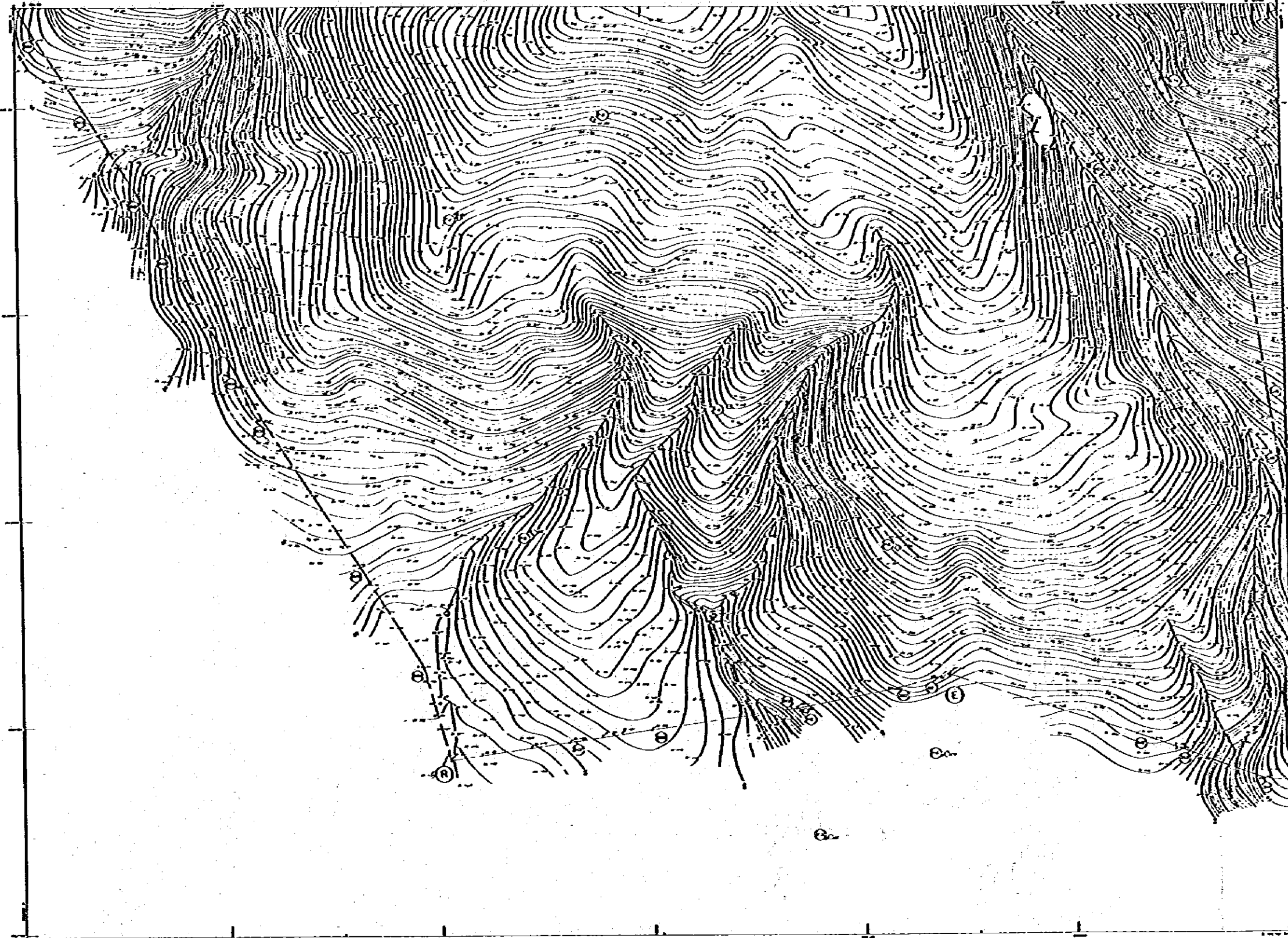


1000
2000
3000
4000
5000
6000
7000
8000
9000
10000

FIGURE 6-3

TEKAI HYDRO-ELECTRIC POWER DEVELOPMENT PROJECT (UPPER DAM)

SHEET 3



- LEGEND
- 1:1000
 - 2:1000
 - 3:1000
 - 4:1000
 - 5:1000
 - 6:1000
 - 7:1000
 - 8:1000
 - 9:1000
 - 10:1000
 - 11:1000
 - 12:1000
 - 13:1000
 - 14:1000
 - 15:1000
 - 16:1000
 - 17:1000
 - 18:1000
 - 19:1000
 - 20:1000
 - 21:1000
 - 22:1000
 - 23:1000
 - 24:1000
 - 25:1000
 - 26:1000
 - 27:1000
 - 28:1000
 - 29:1000
 - 30:1000
 - 31:1000
 - 32:1000
 - 33:1000
 - 34:1000
 - 35:1000
 - 36:1000
 - 37:1000
 - 38:1000
 - 39:1000
 - 40:1000
 - 41:1000
 - 42:1000
 - 43:1000
 - 44:1000
 - 45:1000
 - 46:1000
 - 47:1000
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 - 89:1000
 - 90:1000
 - 91:1000
 - 92:1000
 - 93:1000
 - 94:1000
 - 95:1000
 - 96:1000
 - 97:1000
 - 98:1000
 - 99:1000
 - 100:1000

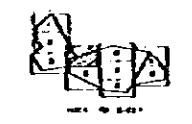
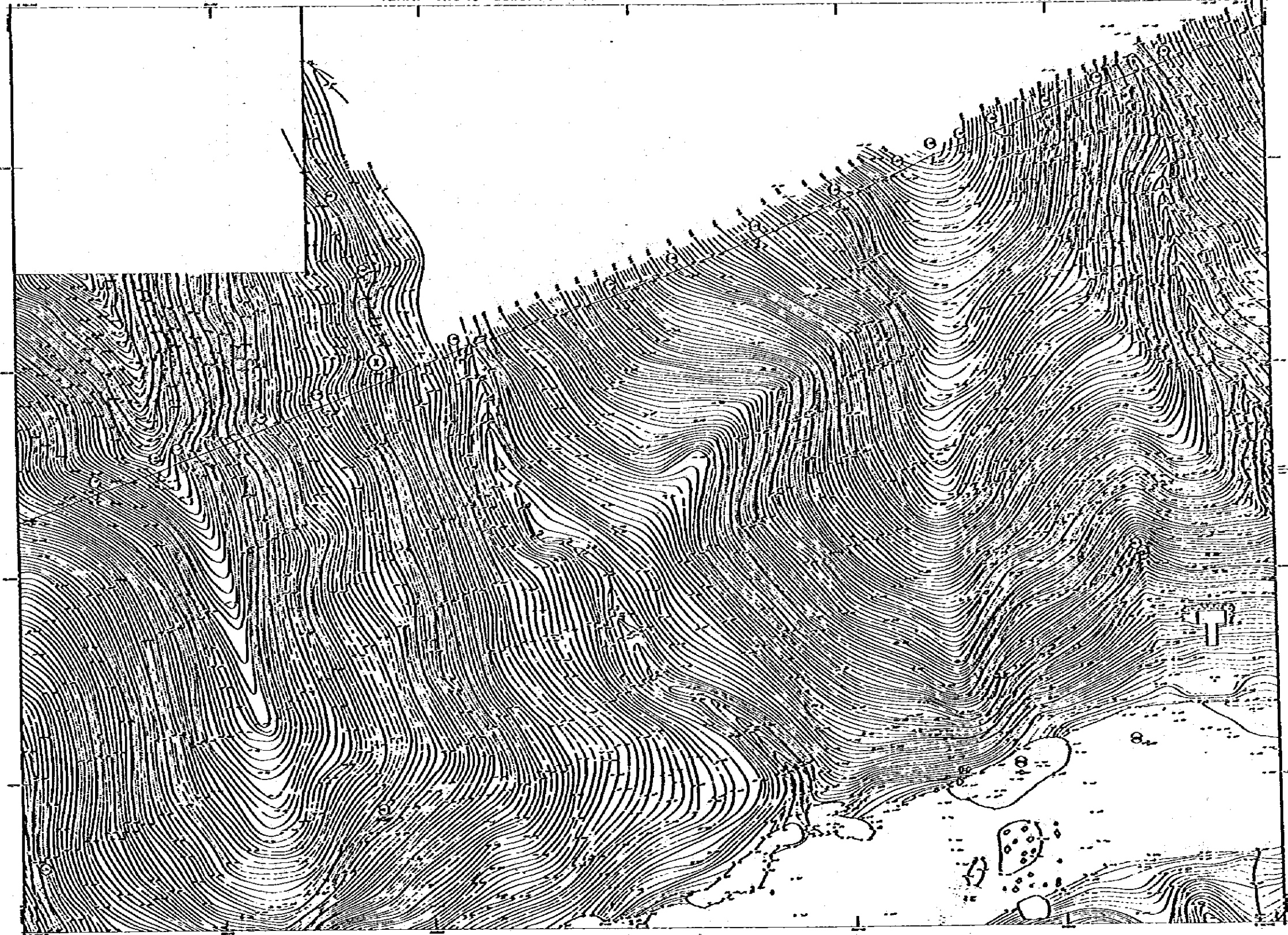
1:1000
2:1000
3:1000
4:1000
5:1000
6:1000
7:1000
8:1000
9:1000
10:1000
11:1000
12:1000
13:1000
14:1000
15:1000
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96:1000
97:1000
98:1000
99:1000
100:1000

FIGURE 6-4

第 I 卷 地形图

TEKAI HYDRO-ELECTRIC POWER DEVELOPMENT PROJECT (UPPER DAM)

SHEET 1



- LEES
- U
- BOUNDARY
- BY 100'S
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000

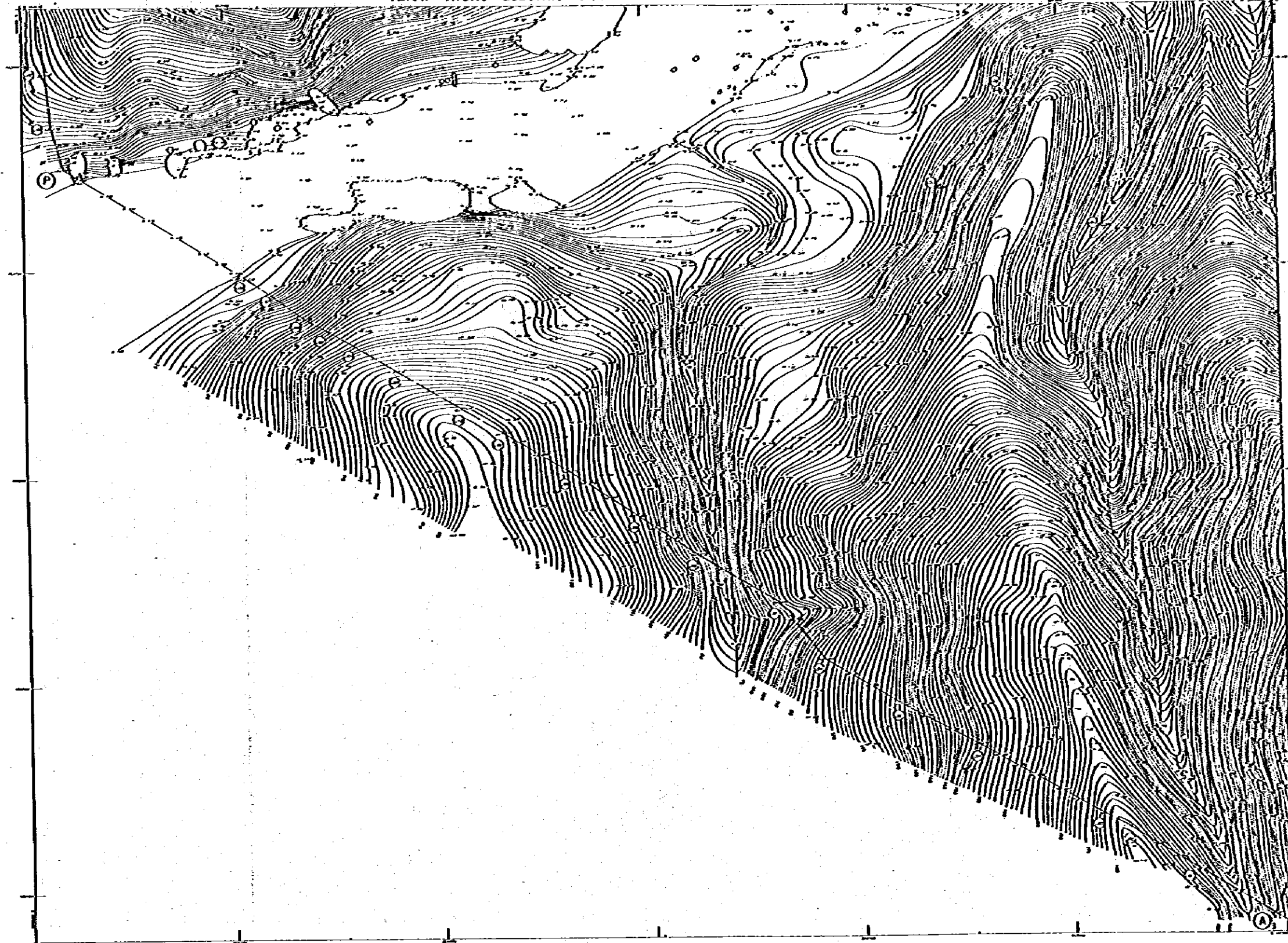
1000 1000 1000

FIGURE 6-5

第二卷英和共通

TEKAI HYDRO-ELECTRIC POWER DEVELOPMENT PROJECT (UPPER DAM)

SHEET 5

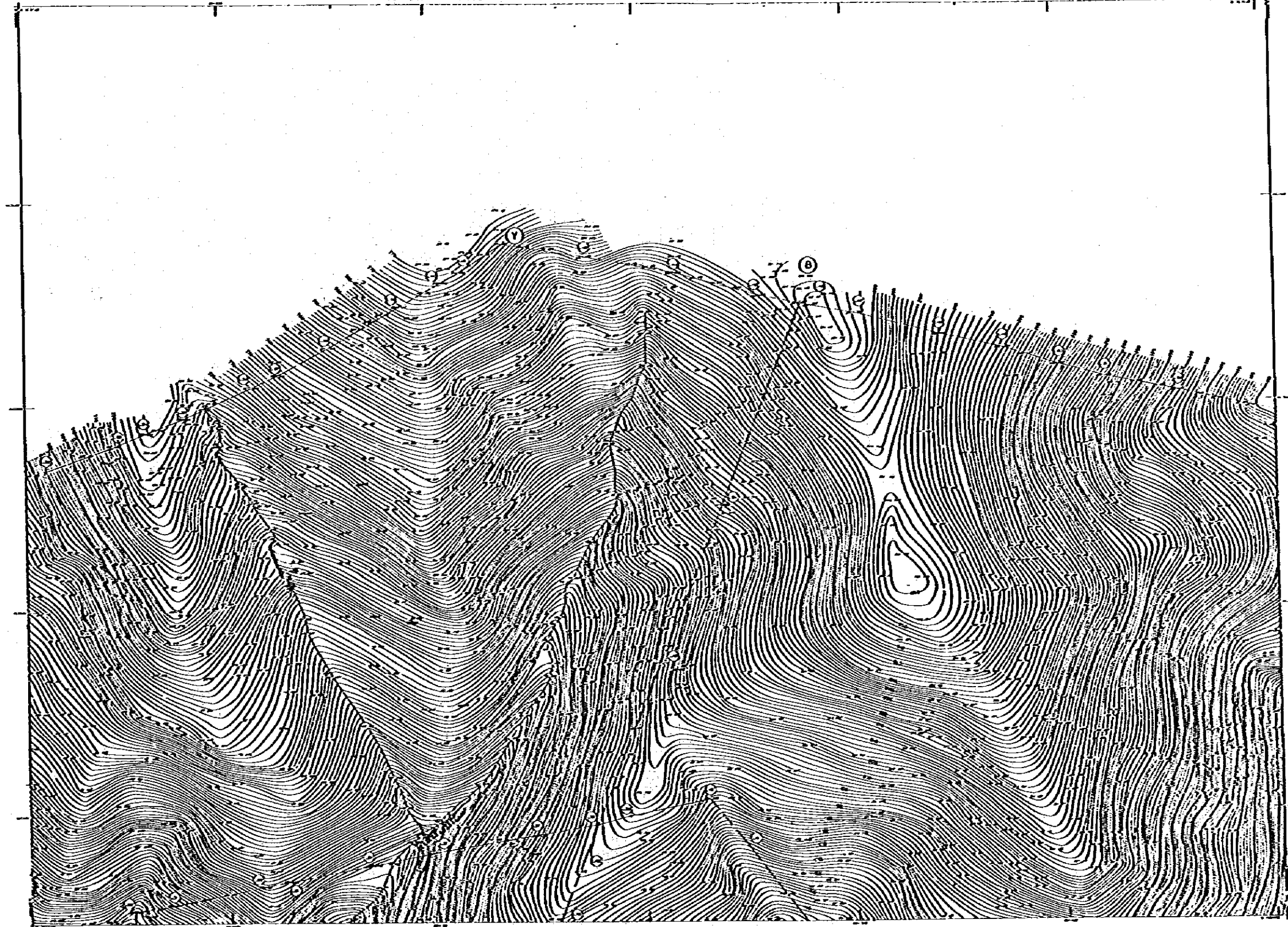


LEGEND

- | | |
|-----|-------------|
| □ | ROAD |
| ▭ | RAILROAD |
| ▨ | CANAL |
| ○ | WATER TOWER |
| • | WATER POINT |
| — | BOUNDARY |
| ... | ... |

FIGURE 6-6

第二卷和共通

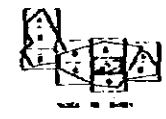
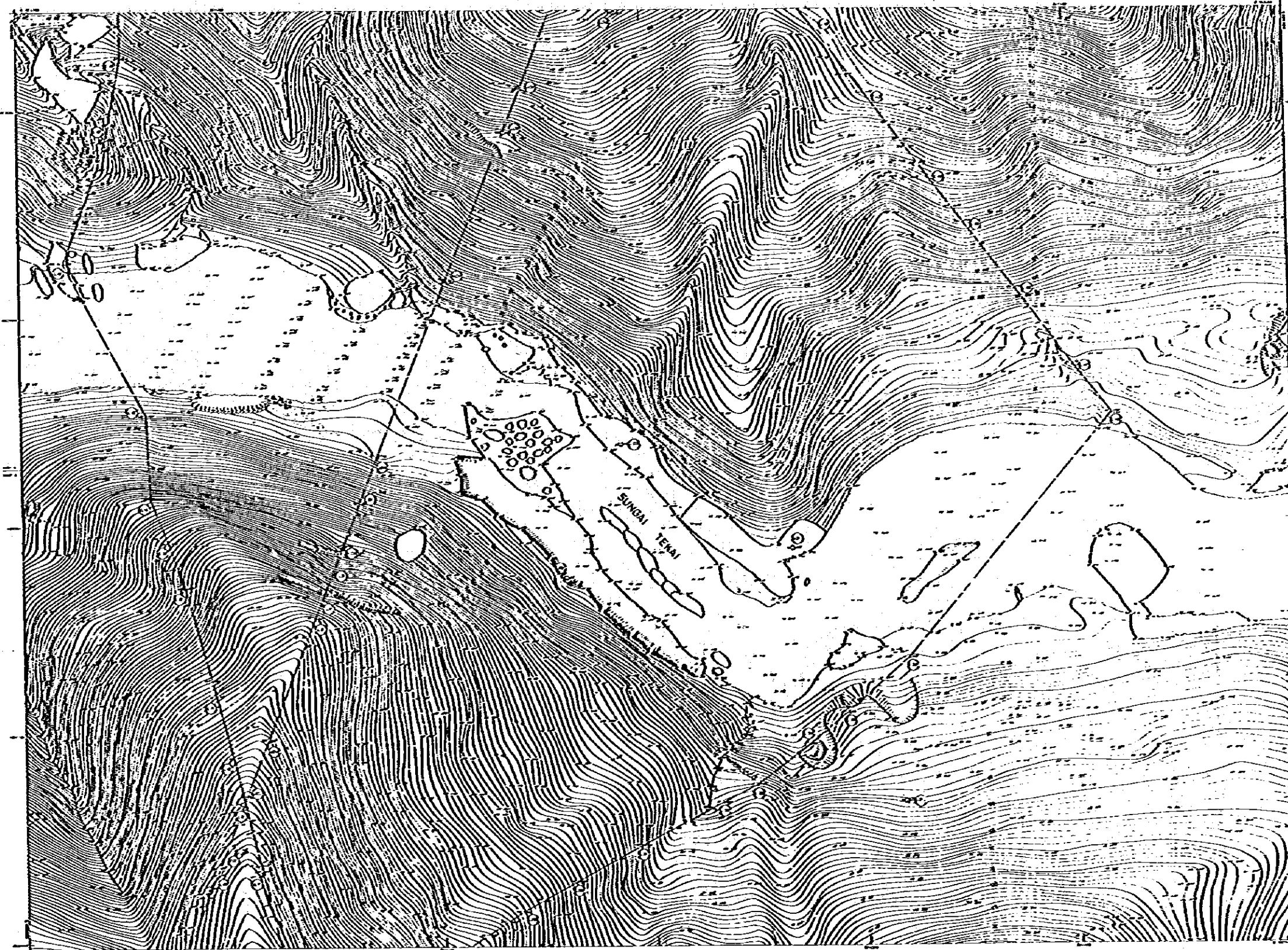


LEGEND
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.
 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

PROJECT LOCATION

1:50,000

FIGURE 6-7



- LEGEND
- 10' BOUNDARY
 - 20' BOUNDARY
 - 30' BOUNDARY
 - 40' BOUNDARY
 - 50' BOUNDARY
 - 60' BOUNDARY
 - 70' BOUNDARY
 - 80' BOUNDARY
 - 90' BOUNDARY
 - 100' BOUNDARY
 - 150' BOUNDARY
 - 200' BOUNDARY
 - 250' BOUNDARY
 - 300' BOUNDARY
 - 350' BOUNDARY
 - 400' BOUNDARY
 - 450' BOUNDARY
 - 500' BOUNDARY
 - 550' BOUNDARY
 - 600' BOUNDARY
 - 650' BOUNDARY
 - 700' BOUNDARY
 - 750' BOUNDARY
 - 800' BOUNDARY
 - 850' BOUNDARY
 - 900' BOUNDARY
 - 950' BOUNDARY
 - 1000' BOUNDARY
 - 1050' BOUNDARY
 - 1100' BOUNDARY
 - 1150' BOUNDARY
 - 1200' BOUNDARY
 - 1250' BOUNDARY
 - 1300' BOUNDARY
 - 1350' BOUNDARY
 - 1400' BOUNDARY
 - 1450' BOUNDARY
 - 1500' BOUNDARY
 - 1550' BOUNDARY
 - 1600' BOUNDARY
 - 1650' BOUNDARY
 - 1700' BOUNDARY
 - 1750' BOUNDARY
 - 1800' BOUNDARY
 - 1850' BOUNDARY
 - 1900' BOUNDARY
 - 1950' BOUNDARY
 - 2000' BOUNDARY
 - 2050' BOUNDARY
 - 2100' BOUNDARY
 - 2150' BOUNDARY
 - 2200' BOUNDARY
 - 2250' BOUNDARY
 - 2300' BOUNDARY
 - 2350' BOUNDARY
 - 2400' BOUNDARY
 - 2450' BOUNDARY
 - 2500' BOUNDARY
 - 2550' BOUNDARY
 - 2600' BOUNDARY
 - 2650' BOUNDARY
 - 2700' BOUNDARY
 - 2750' BOUNDARY
 - 2800' BOUNDARY
 - 2850' BOUNDARY
 - 2900' BOUNDARY
 - 2950' BOUNDARY
 - 3000' BOUNDARY
 - 3050' BOUNDARY
 - 3100' BOUNDARY
 - 3150' BOUNDARY
 - 3200' BOUNDARY
 - 3250' BOUNDARY
 - 3300' BOUNDARY
 - 3350' BOUNDARY
 - 3400' BOUNDARY
 - 3450' BOUNDARY
 - 3500' BOUNDARY
 - 3550' BOUNDARY
 - 3600' BOUNDARY
 - 3650' BOUNDARY
 - 3700' BOUNDARY
 - 3750' BOUNDARY
 - 3800' BOUNDARY
 - 3850' BOUNDARY
 - 3900' BOUNDARY
 - 3950' BOUNDARY
 - 4000' BOUNDARY
 - 4050' BOUNDARY
 - 4100' BOUNDARY
 - 4150' BOUNDARY
 - 4200' BOUNDARY
 - 4250' BOUNDARY
 - 4300' BOUNDARY
 - 4350' BOUNDARY
 - 4400' BOUNDARY
 - 4450' BOUNDARY
 - 4500' BOUNDARY
 - 4550' BOUNDARY
 - 4600' BOUNDARY
 - 4650' BOUNDARY
 - 4700' BOUNDARY
 - 4750' BOUNDARY
 - 4800' BOUNDARY
 - 4850' BOUNDARY
 - 4900' BOUNDARY
 - 4950' BOUNDARY
 - 5000' BOUNDARY

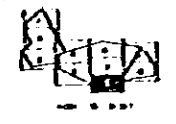
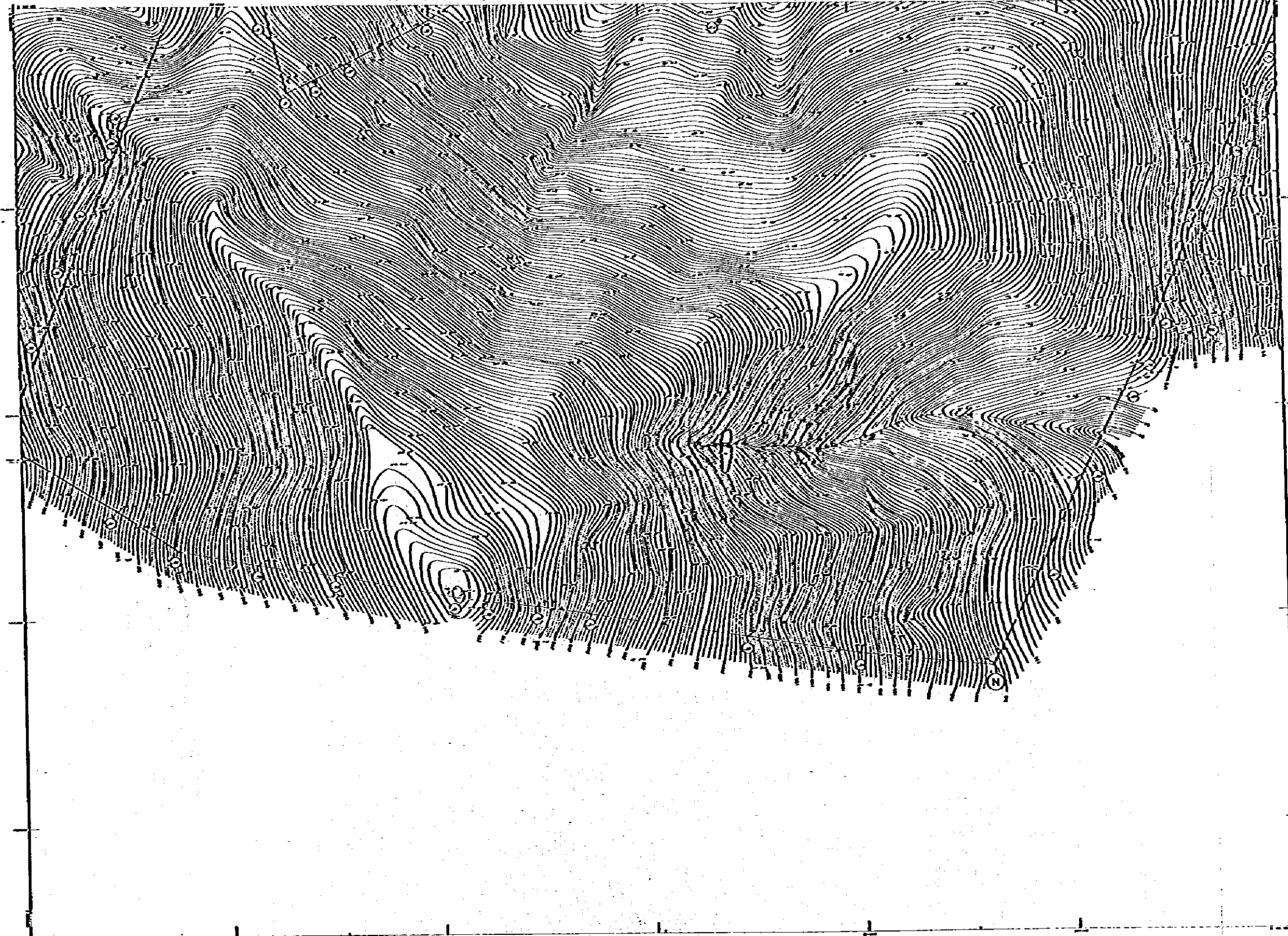
E.T.M. 1950. V. 11. 1

FIGURE 6-8

第二卷 规划和共通

TEKAI HYDRO-ELECTRIC POWER DEVELOPMENT PROJECT (UPPER DAM)

SHEET 8

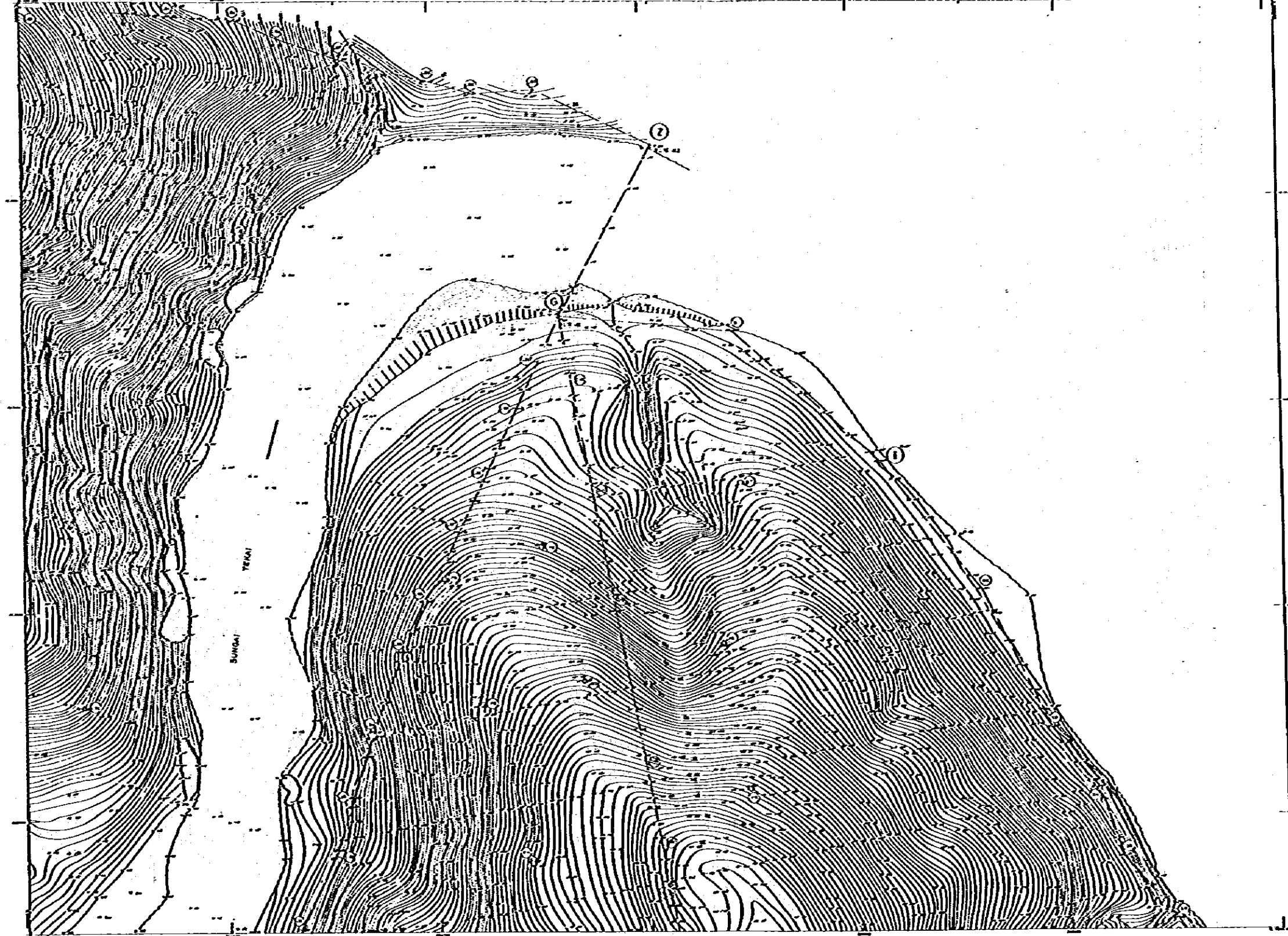


1000
 900
 800
 700
 600
 500
 400
 300
 200
 100

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100

FIGURE 6-9

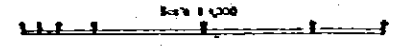
第 II 卷 茨和茨通



LEGEND
 1. DAM
 2. RESERVOIR
 3. POWER HOUSE
 4. INTAKE
 5. TUNNEL
 6. PENSTOCK
 7. TRANSMISSION LINE
 8. ROAD
 9. RAILWAY
 10. CANAL
 11. STREAM
 12. RIVER
 13. LAKE
 14. SWAMP
 15. SAND
 16. ROCK

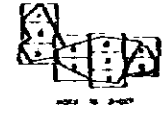
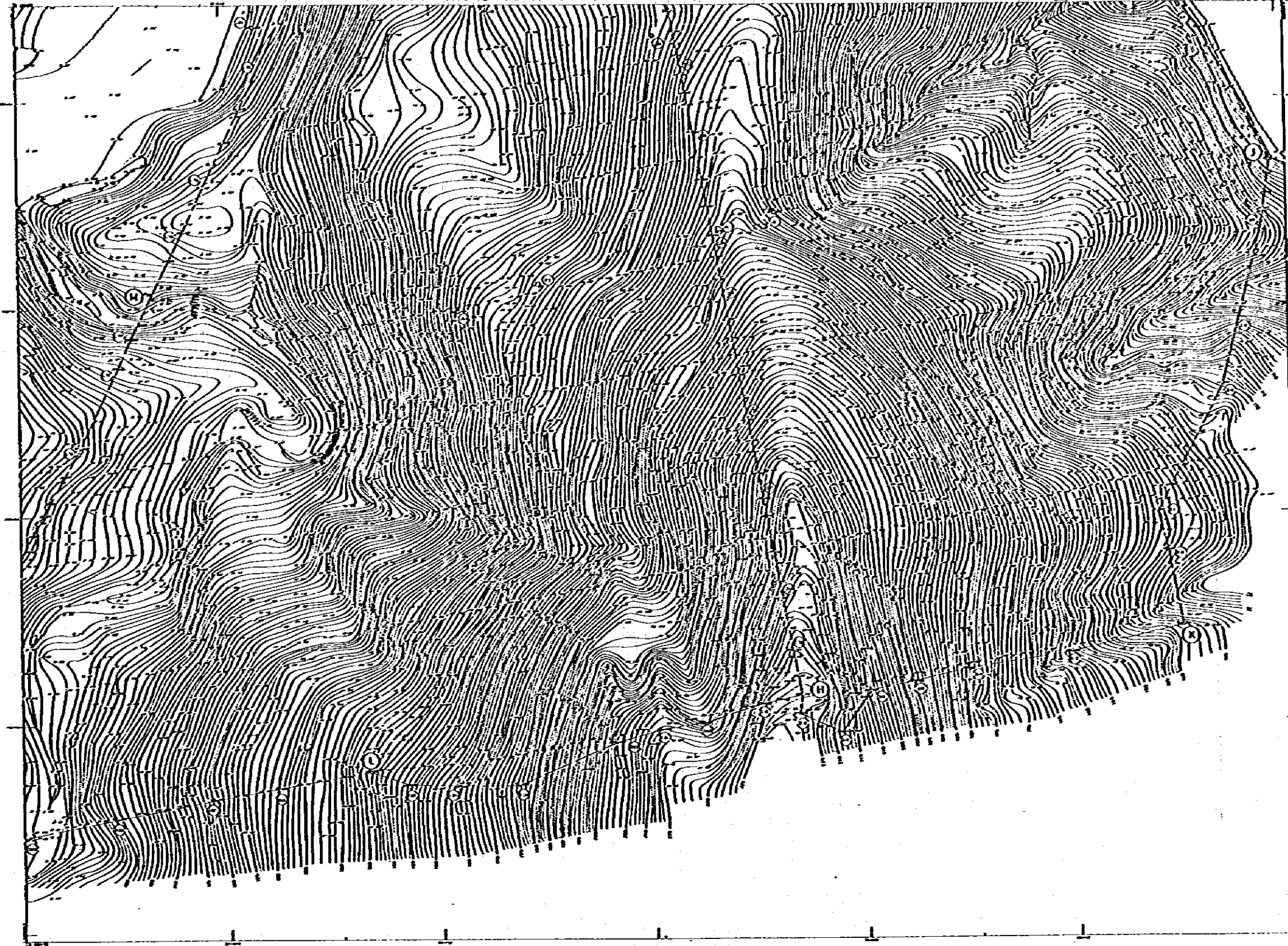
比例尺 1:50,000

FIGURE 6-10



TEKAI HYDRO-ELECTRIC POWER DEVELOPMENT PROJECT (UPPER DAM)

SHEET 12



LEGEND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10

10 20 30 40 50 60 70 80 90 100

FIGURE 6-11