

FIGURES

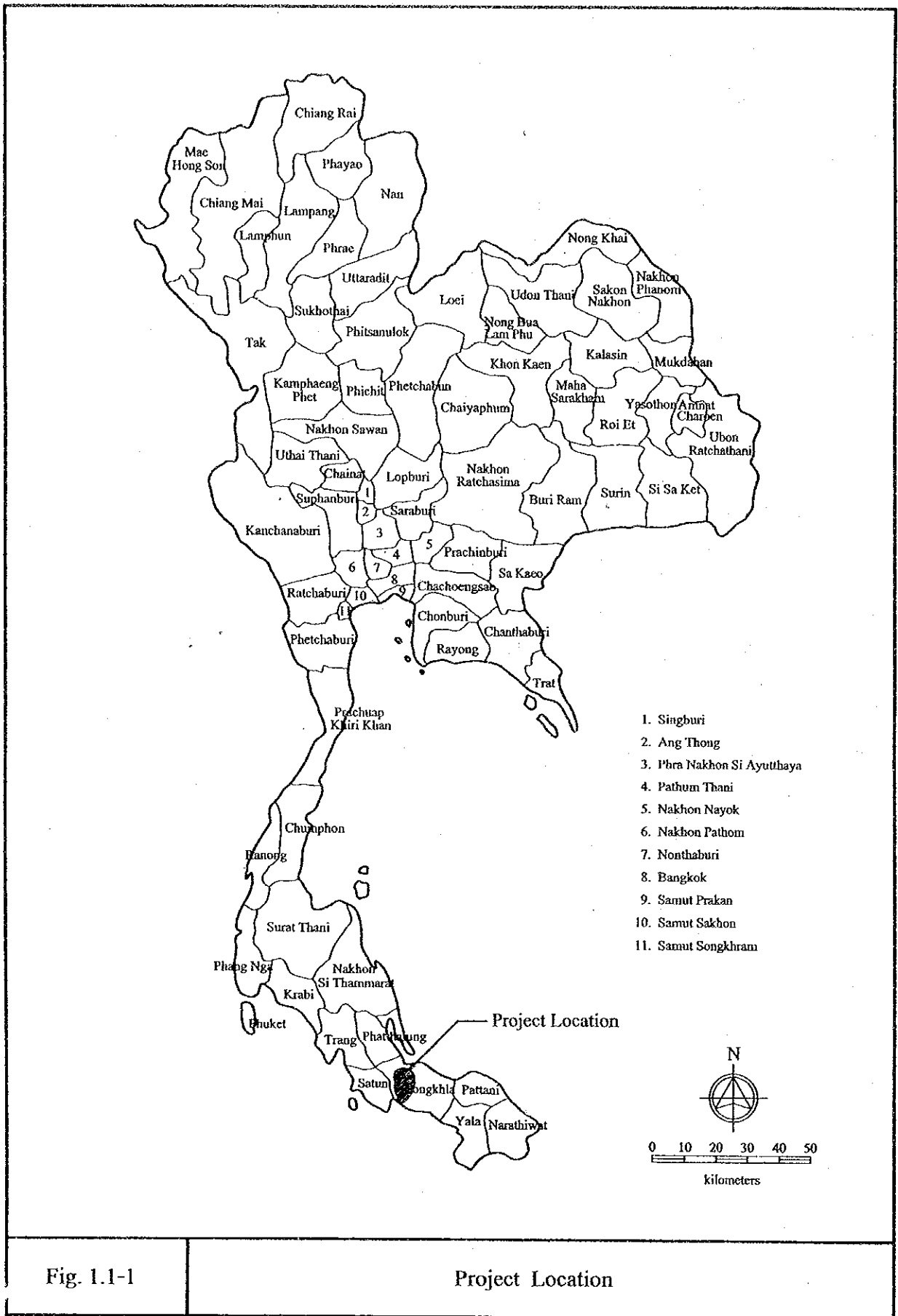


Fig. 1.1-1

Project Location

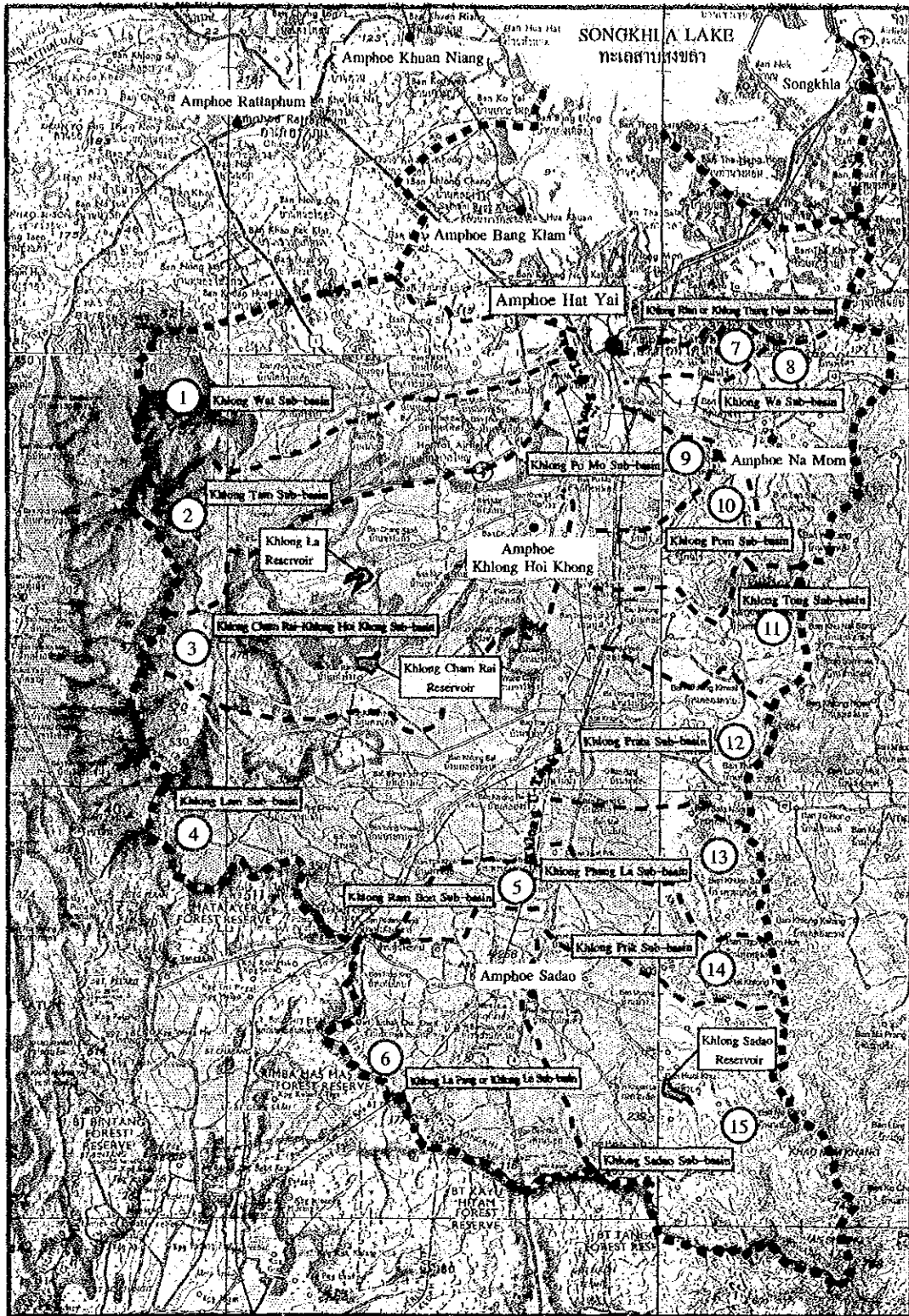
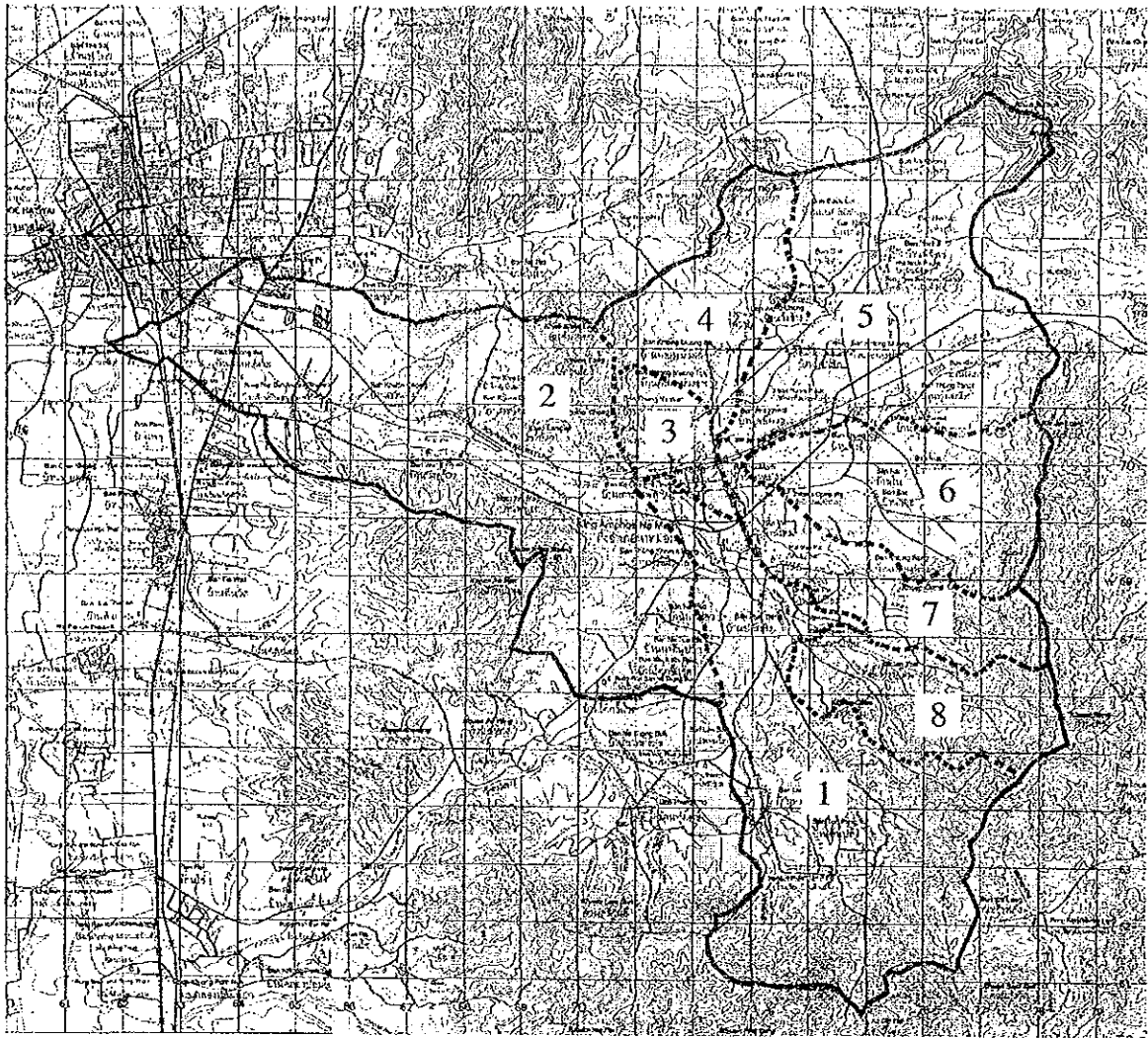


Fig. 1.1-2

Project Area (Khlong U-Taphao Basin)



Khlong Wa Sub Basins

1. Khlong Wa (Upper)	= 24.30 sq.km.
2. Khlong Wa (Lower)	= 34.90 sq.km.
3. Khlong Na Mom	= 3.23 sq.km.
4. Khlong Ban Phli Kwai	= 7.82 sq.km.
5. Khlong Muang	= 22.05 sq.km.
6. Khlong Ban Sae	= 10.78 sq.km.
7. Khlong Ko Wao	= 7.42 sq.km.
8. Khlong Hin Dam	= 7.70 sq.km.
Total Area	= 118.20 sq.km.

Fig. 2.1-1

Khlong Wa Sub Basins

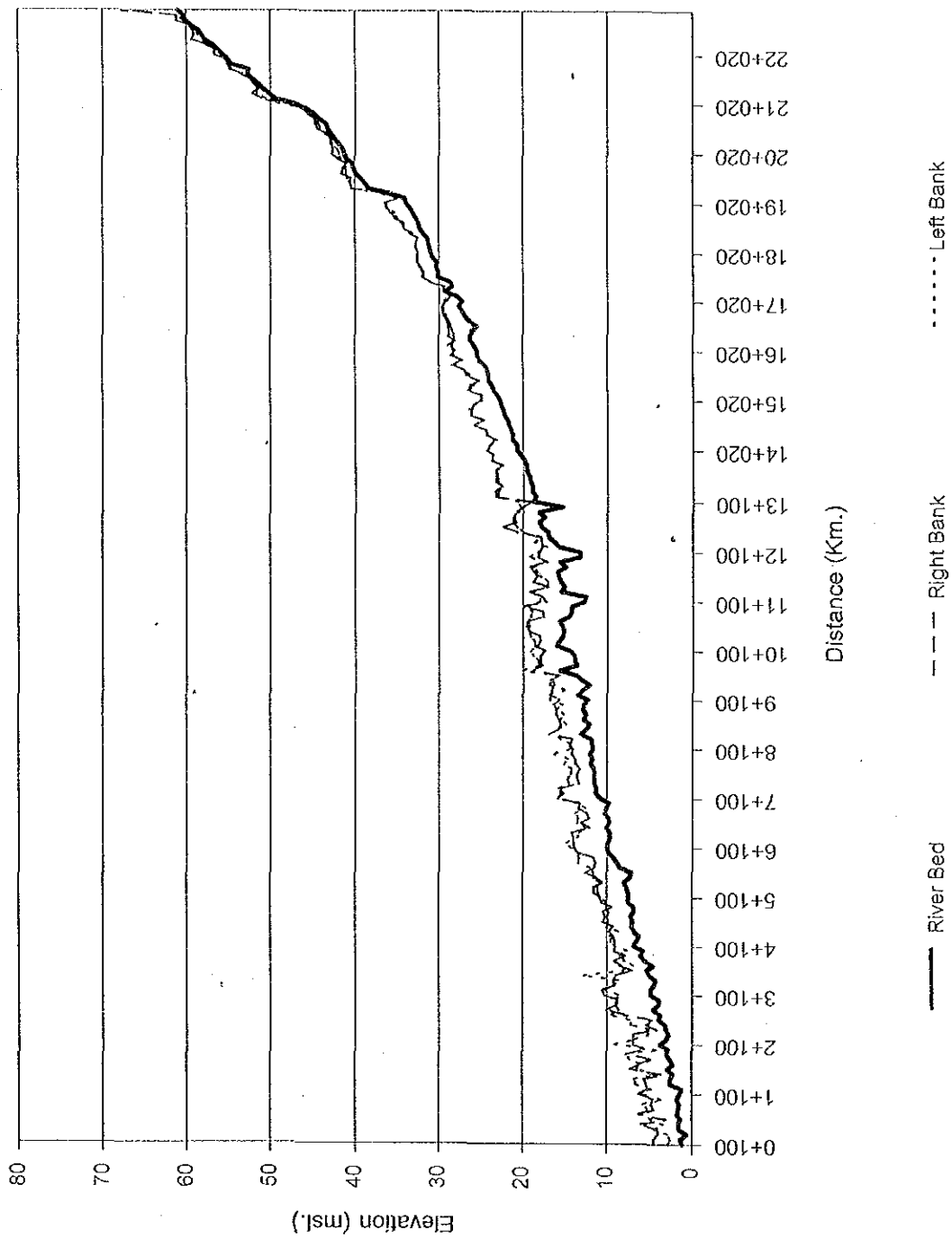


Fig. 2.1-2

Khlong Wa River Bed Profile

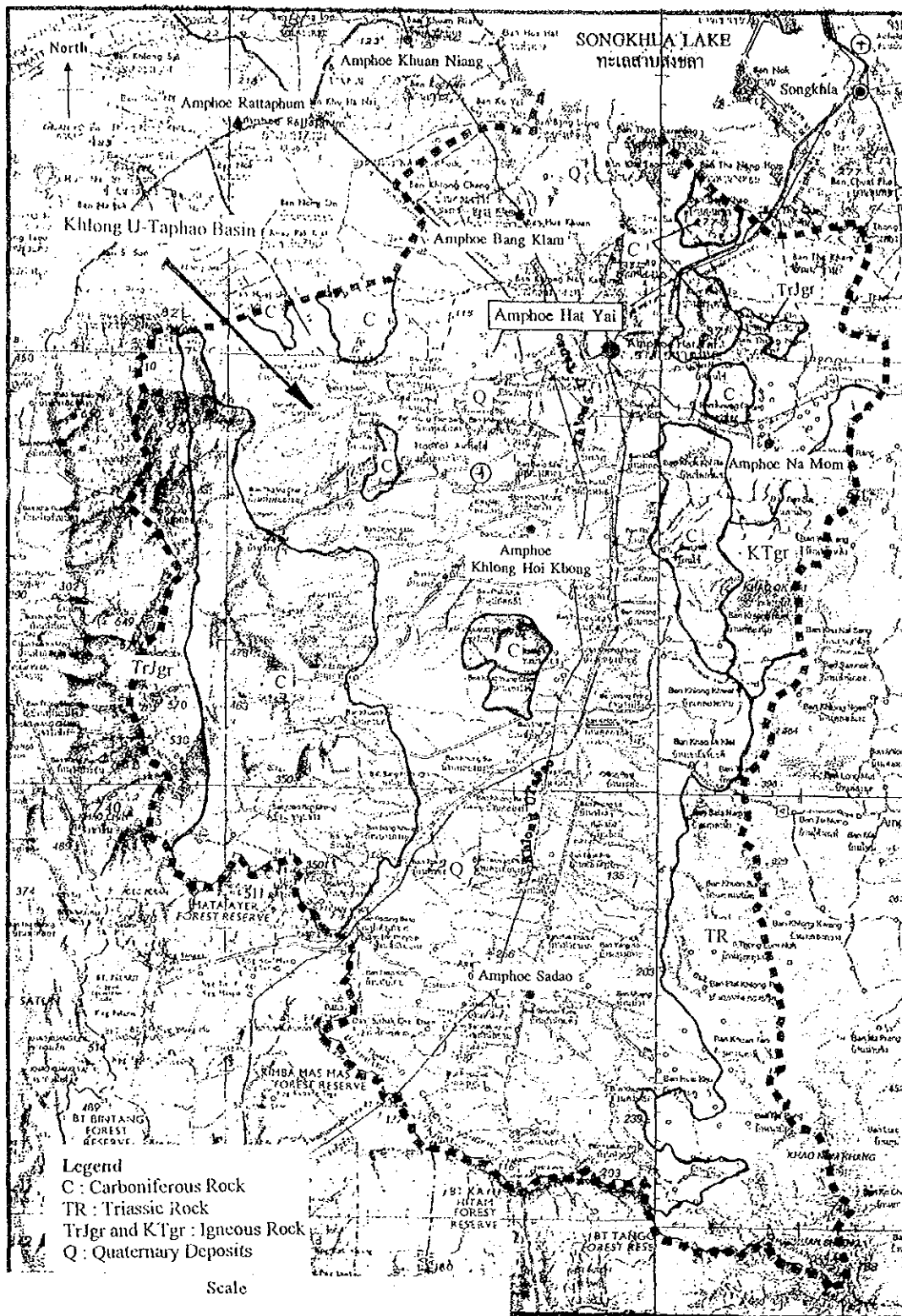


Fig.2.1-3

Geological Map of Khlong U-Taphao Basin

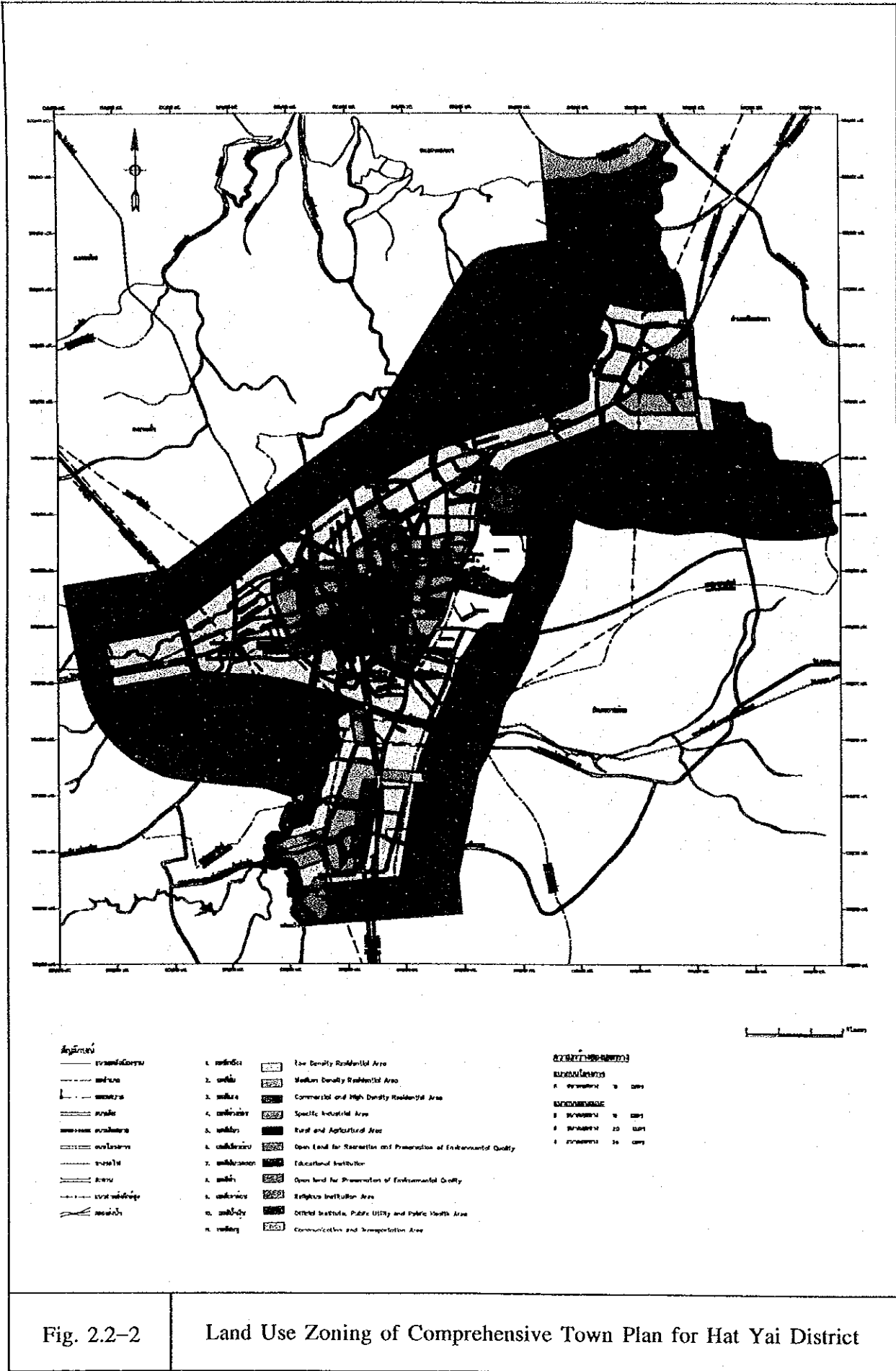
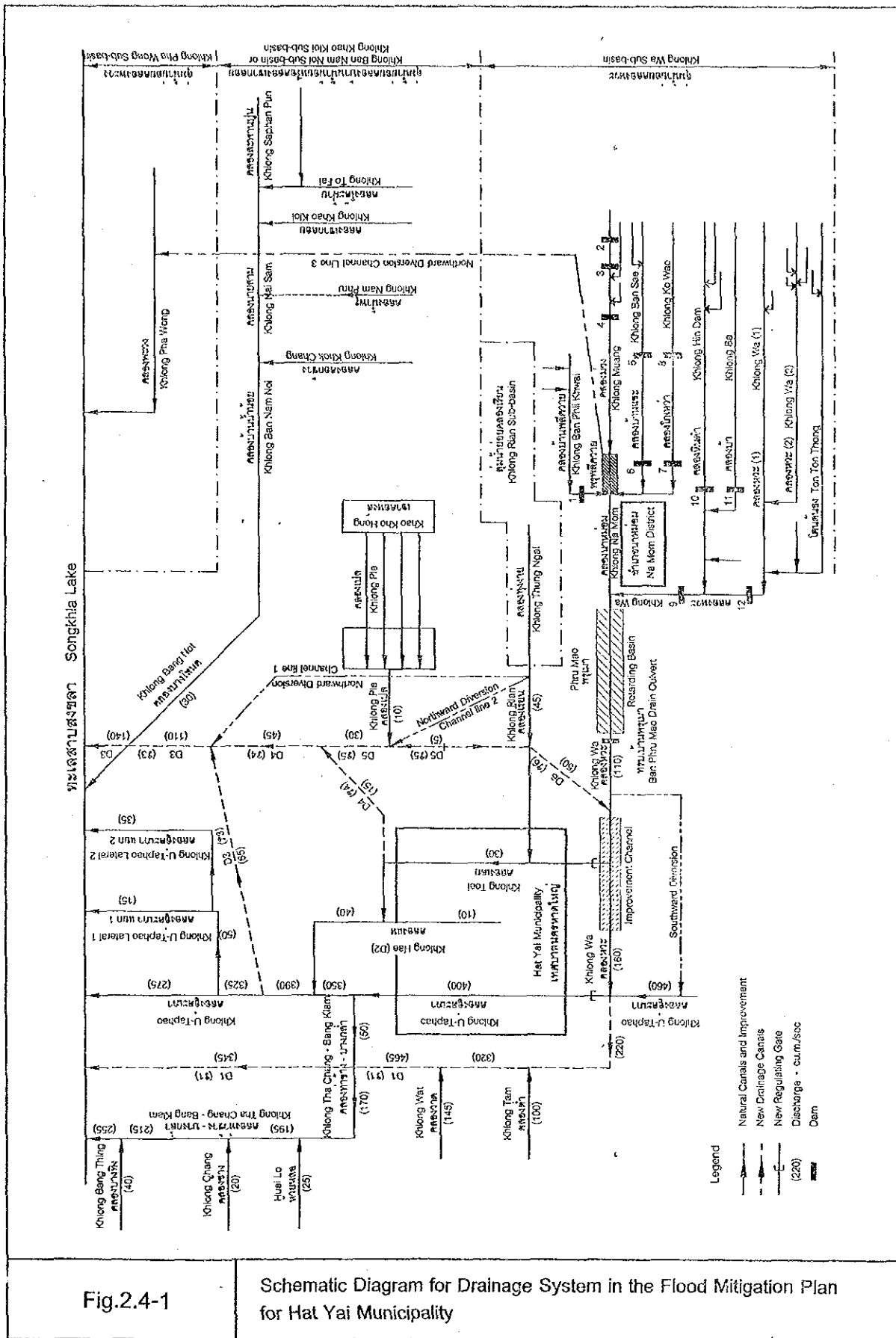
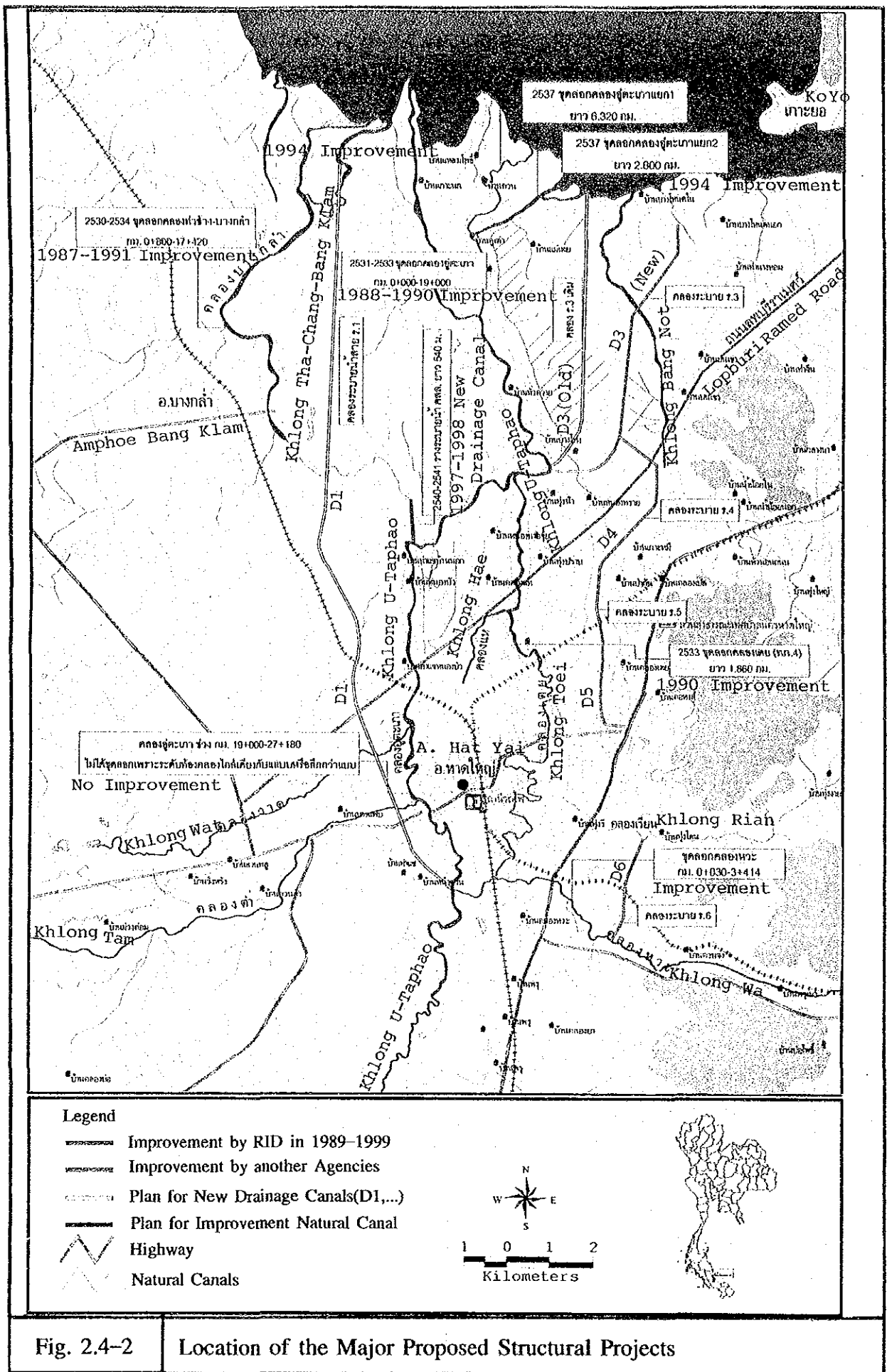


Fig. 2.2-2

Land Use Zoning of Comprehensive Town Plan for Hat Yai District





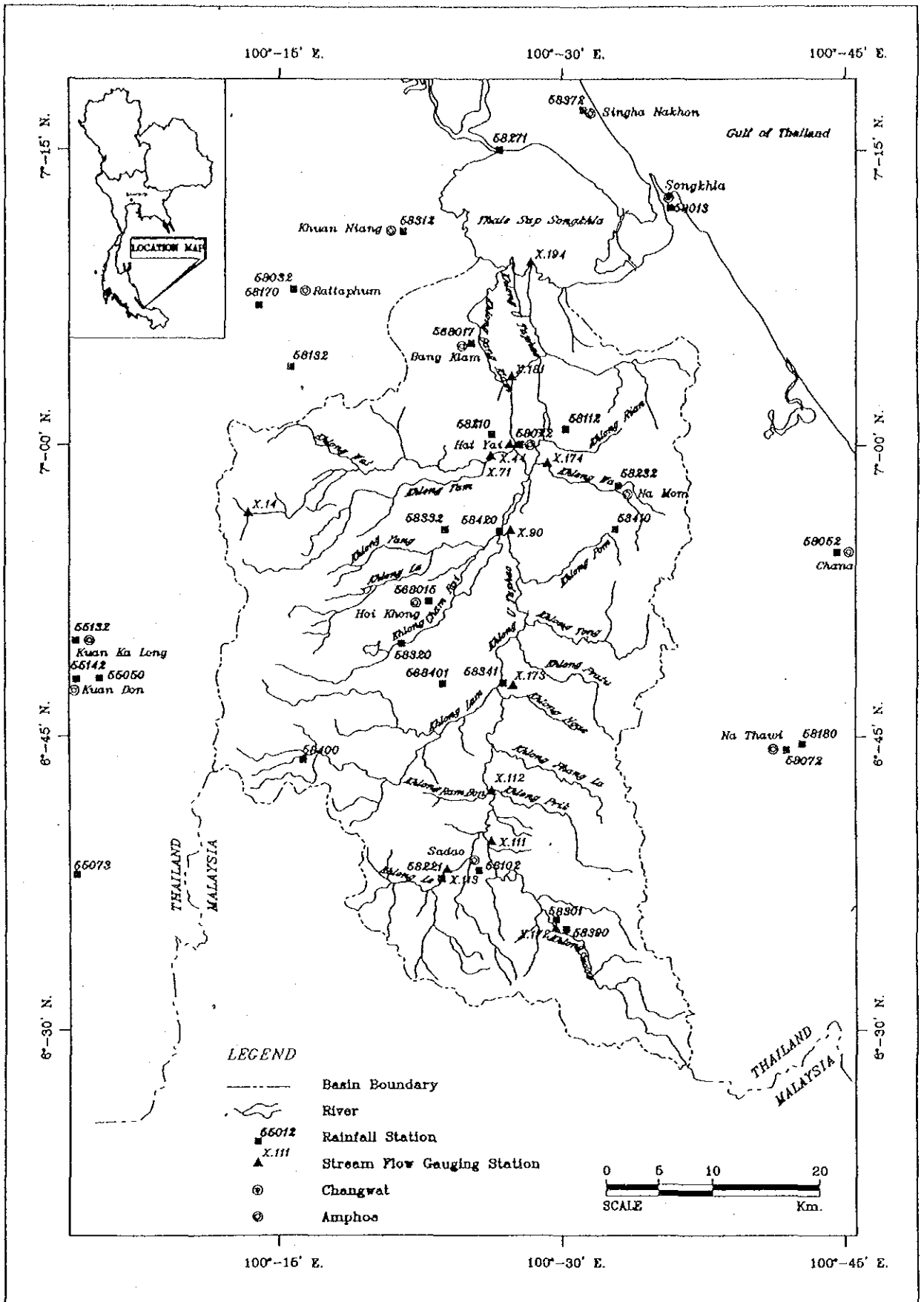


Fig. 3.1-1

Location of Rainfall and Stream Flow Gauging Stations

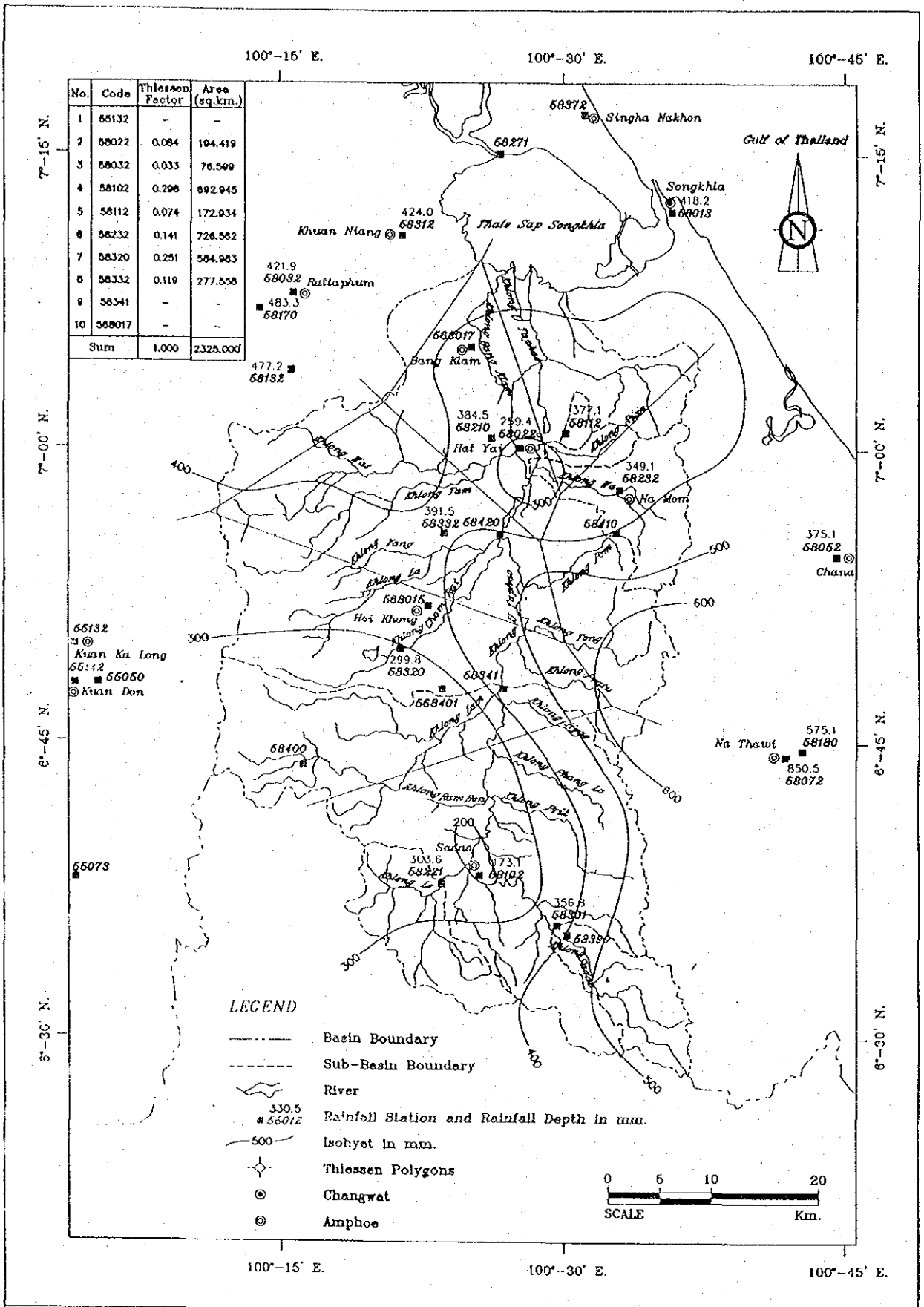


Fig. 3.1-2

Spatial Rainfall Distribution During 18-24 Nov.1988

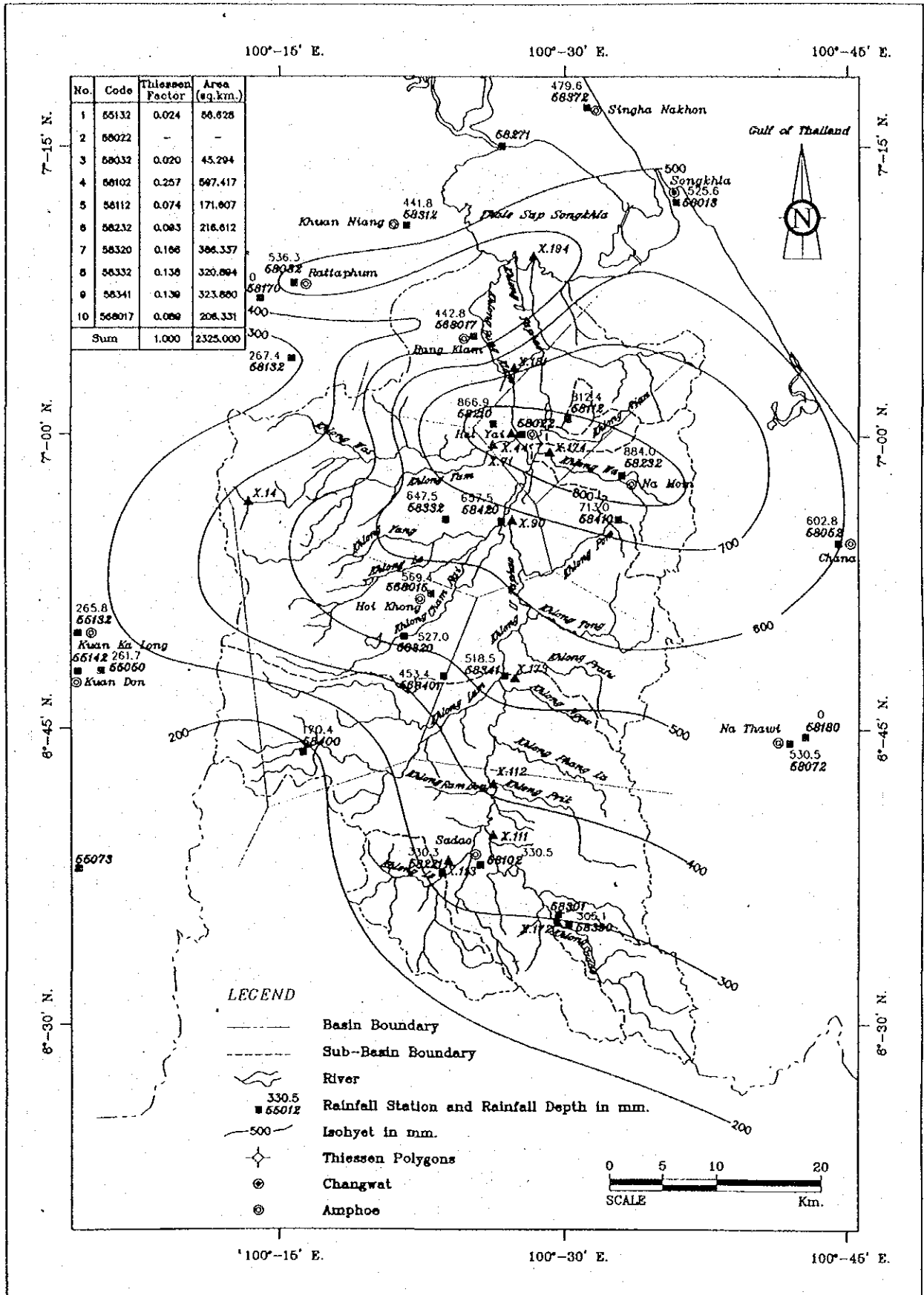


Fig. 3.1-3

Spatial Rainfall Distribution During 18-24 Nov.2000

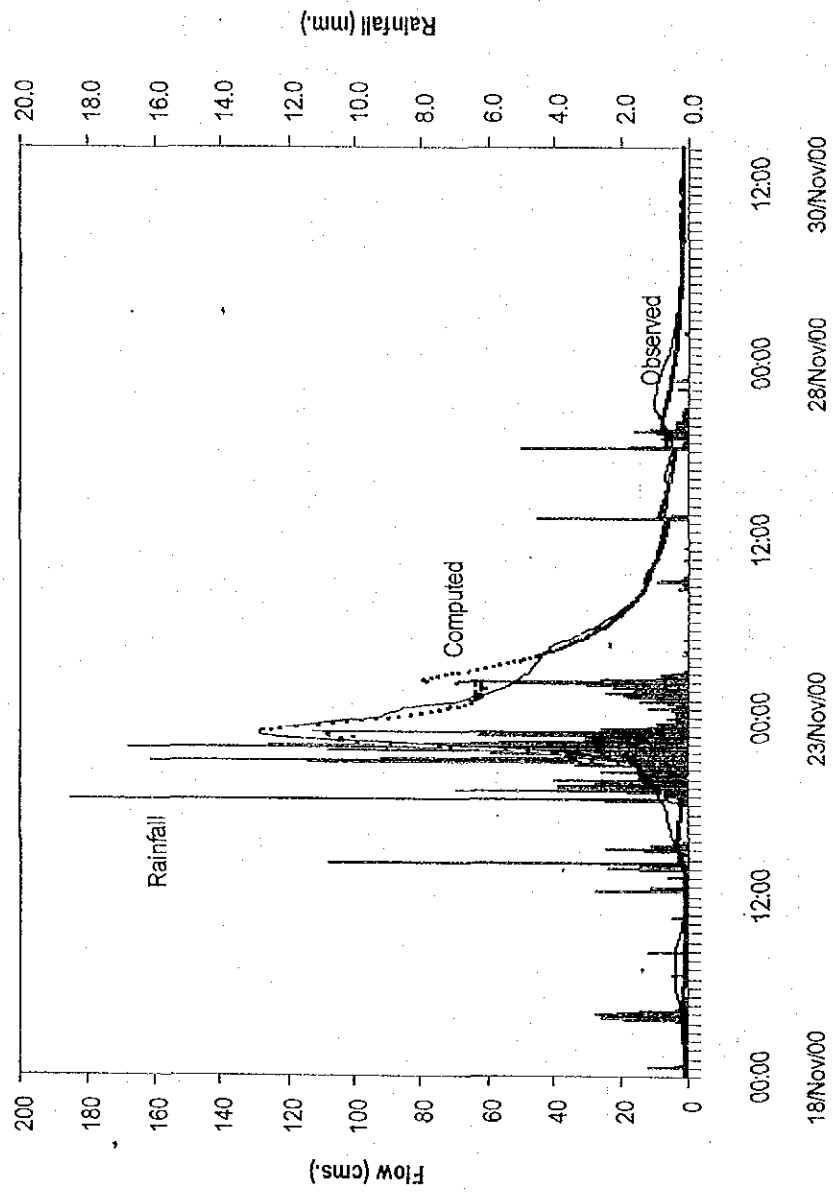


Fig. 3.2-1

Result of Hydrologic Model Calibration

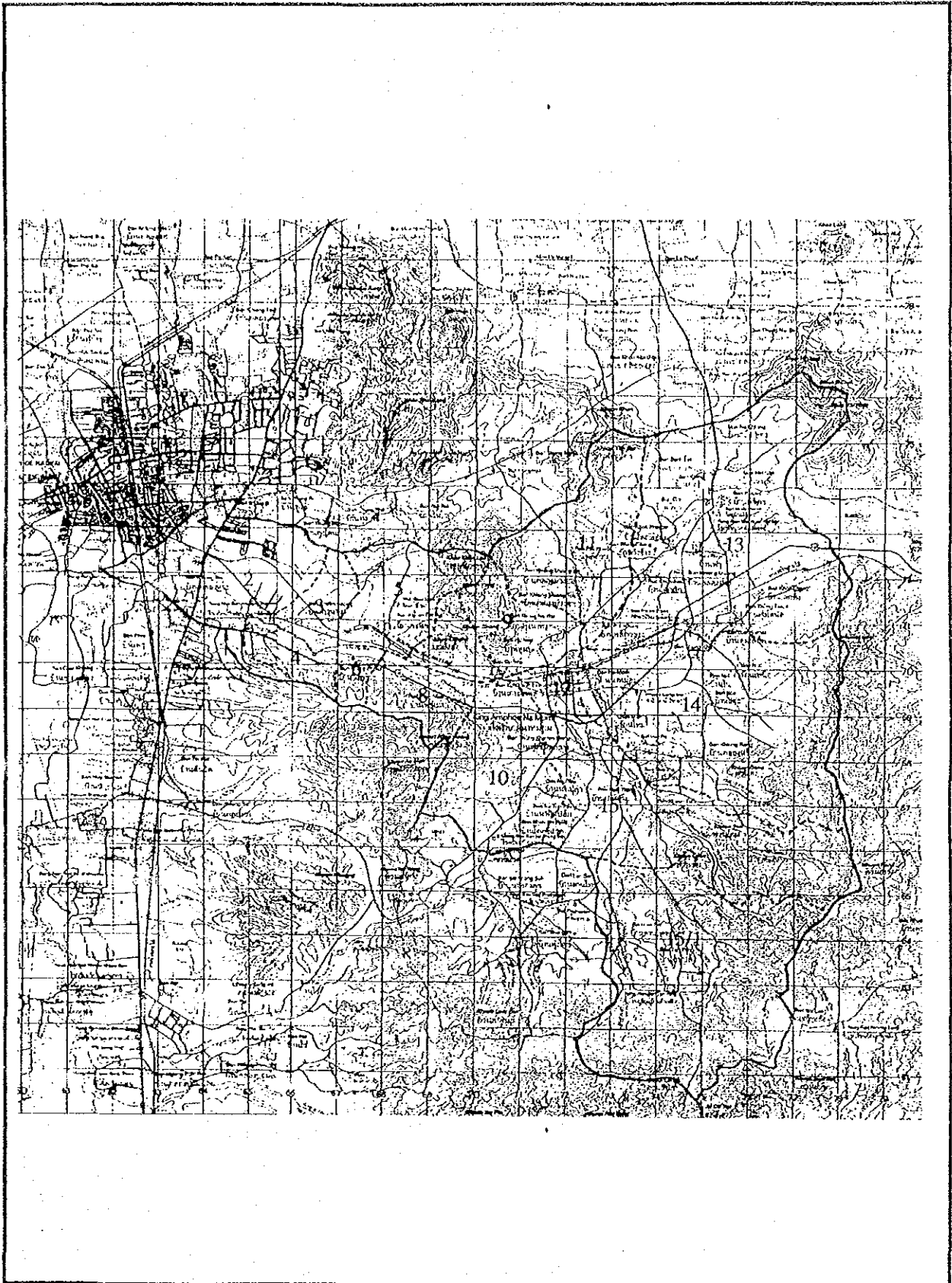


Fig. 3.2-2

Khlong Wa Sub-basins applied to the Hydrologic Model

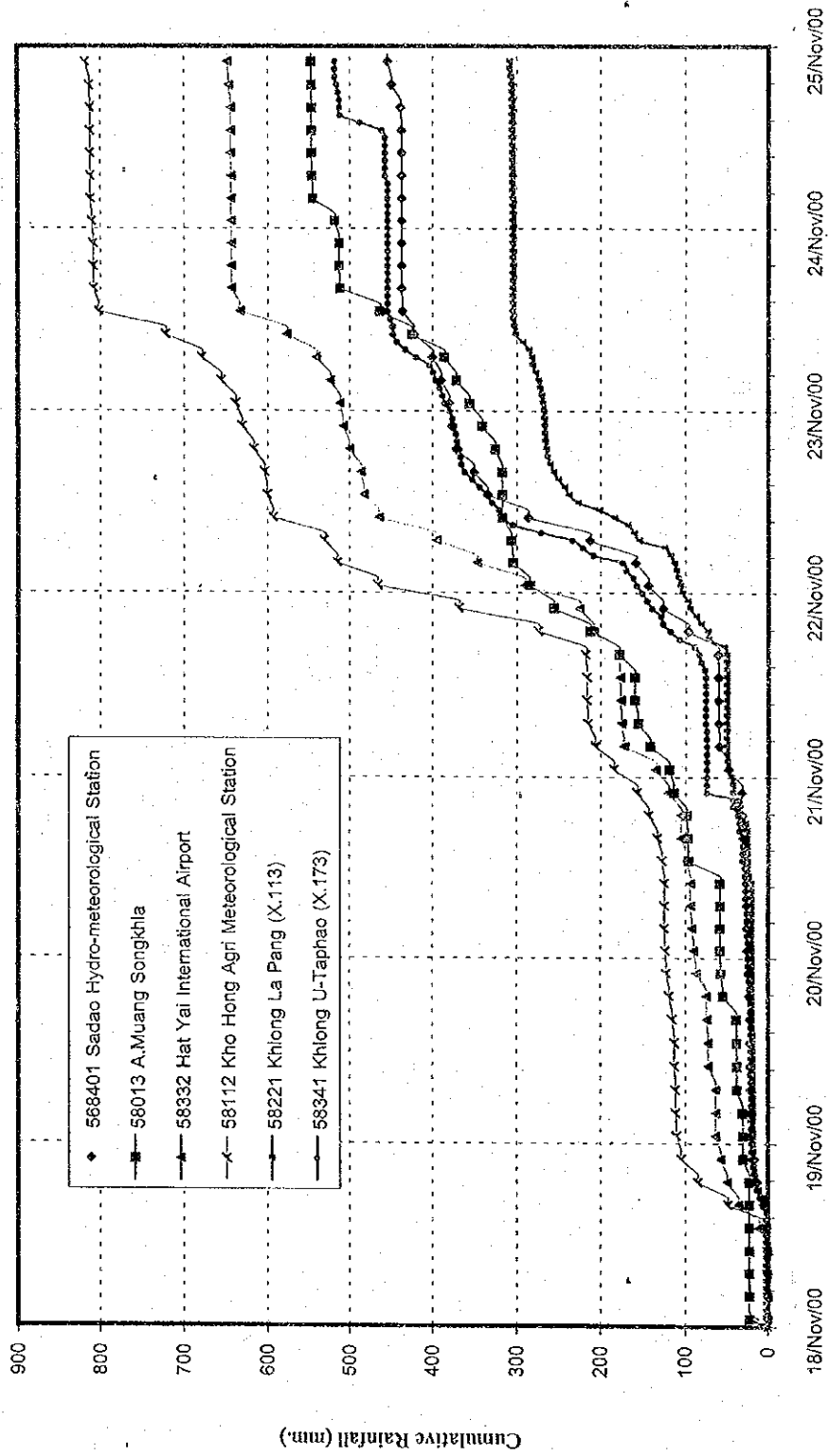


Fig. 3.2-3

Temporal Rainfall Distribution during 18 - 24 Nov.2000

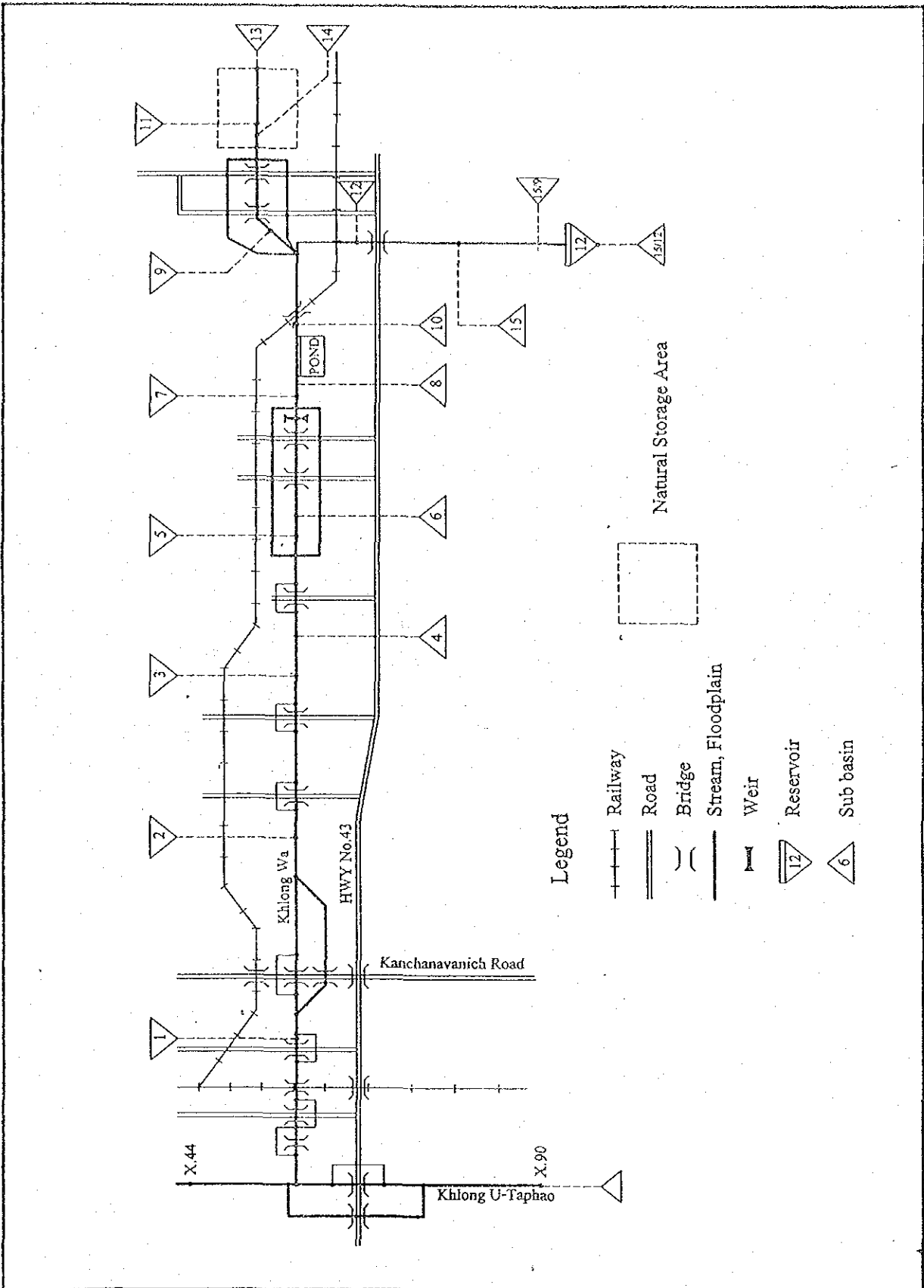


Fig. 3.2-4

Schematic Diagram of the Mathematical Model under the Existing Condition

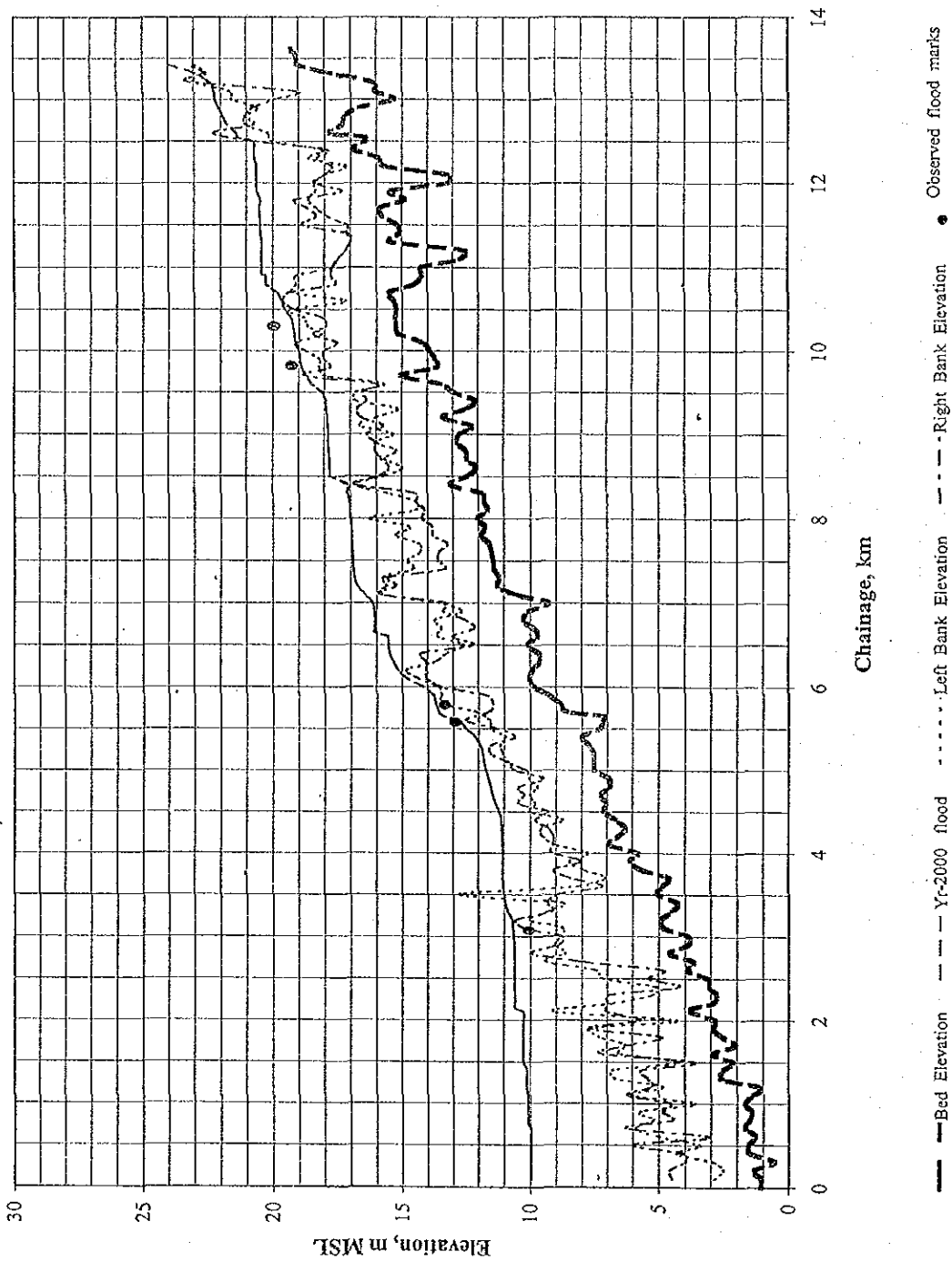


Fig. 3.2-5

Maximum Water Surface Profile of Khlong Wa at Year 2000 Flood

Discharge at St. X174 Year 2000

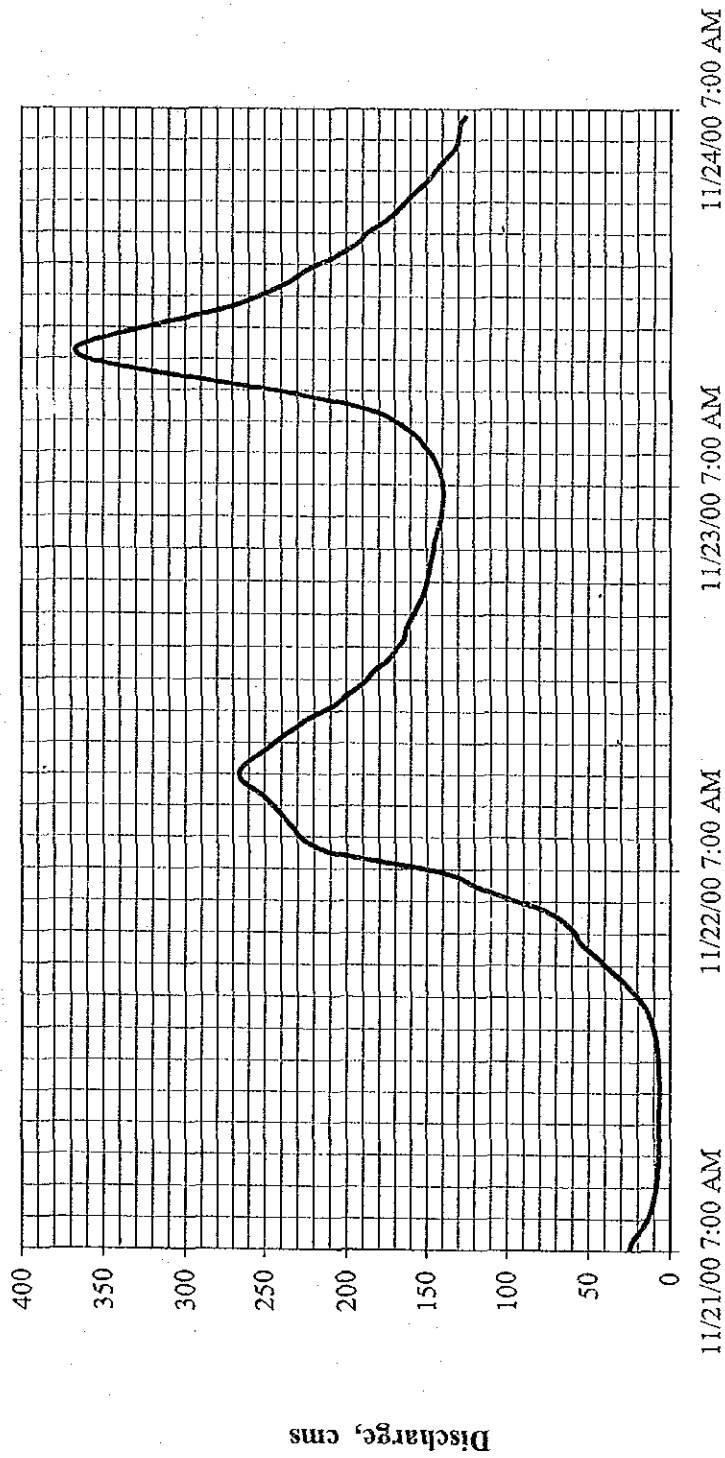


Fig. 3.2-6

Discharge at Gauging Station X.174 at the Year 2000 Flood

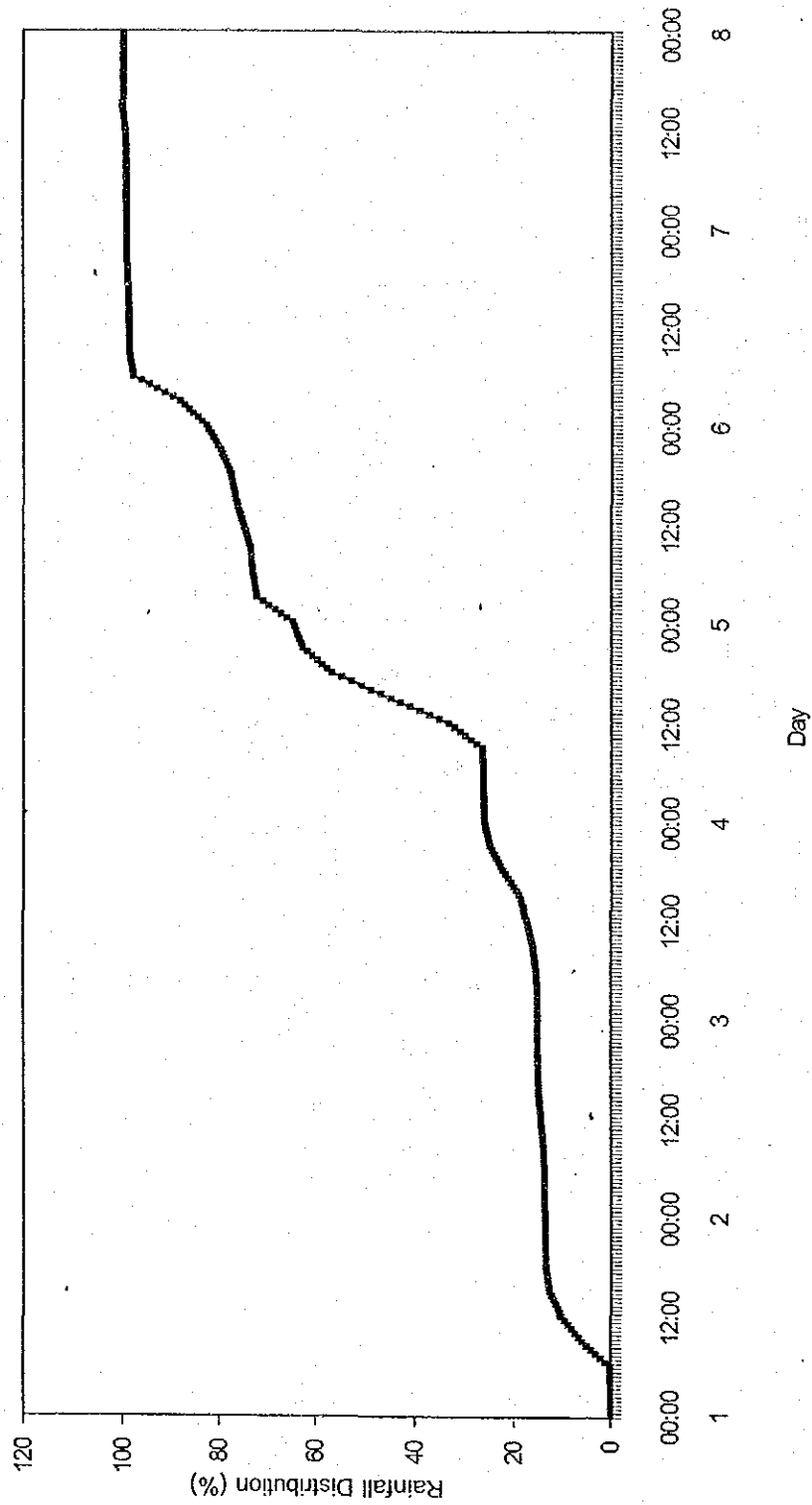


Fig. 3.3-1

Typical Rainfall Pattern for Khlong Wa Basin

Discharge Hydrograph of the probable flood at Station X.174

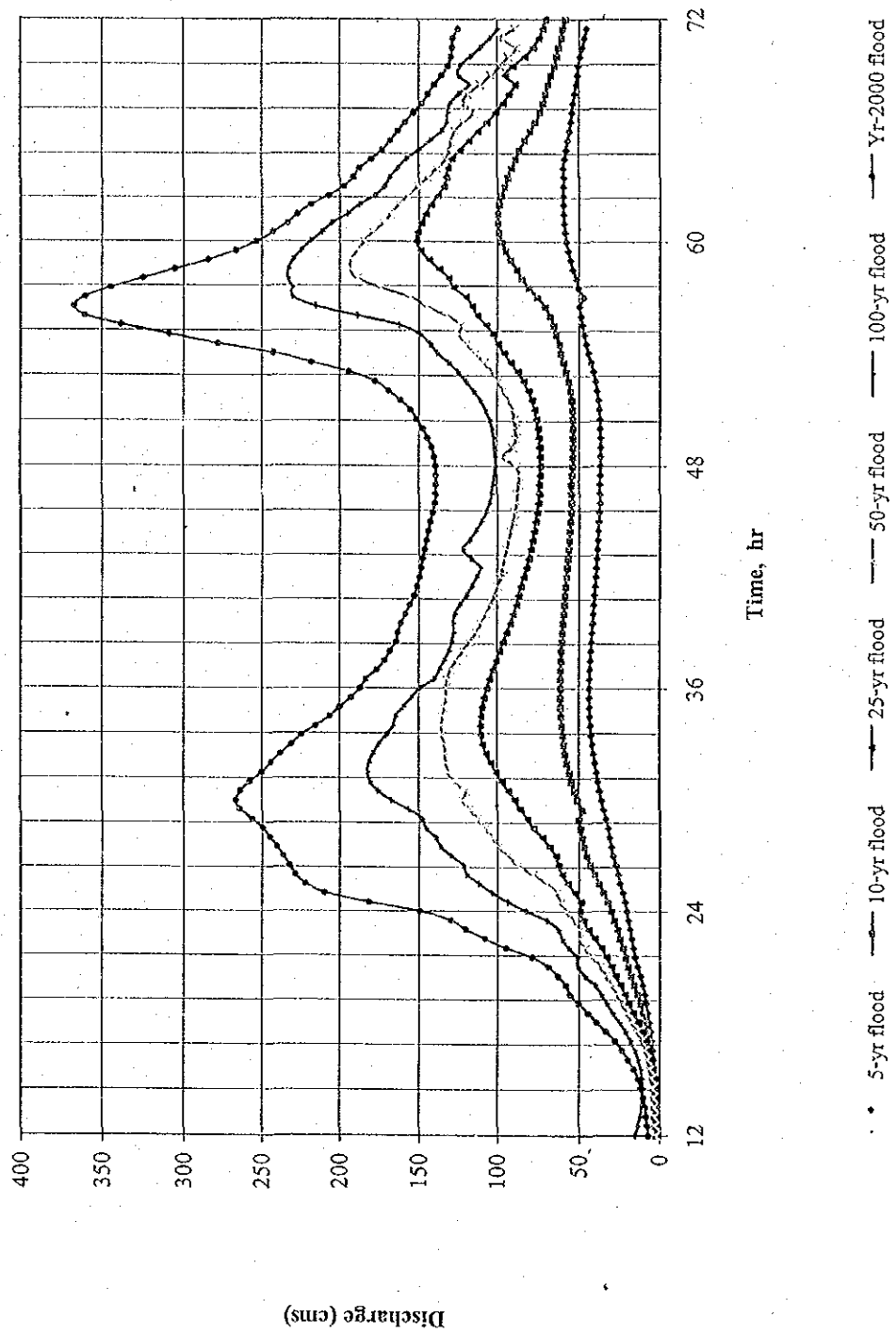


Fig. 3.4-1

Flood Hydrographs of Various Return Periods at Station X.174

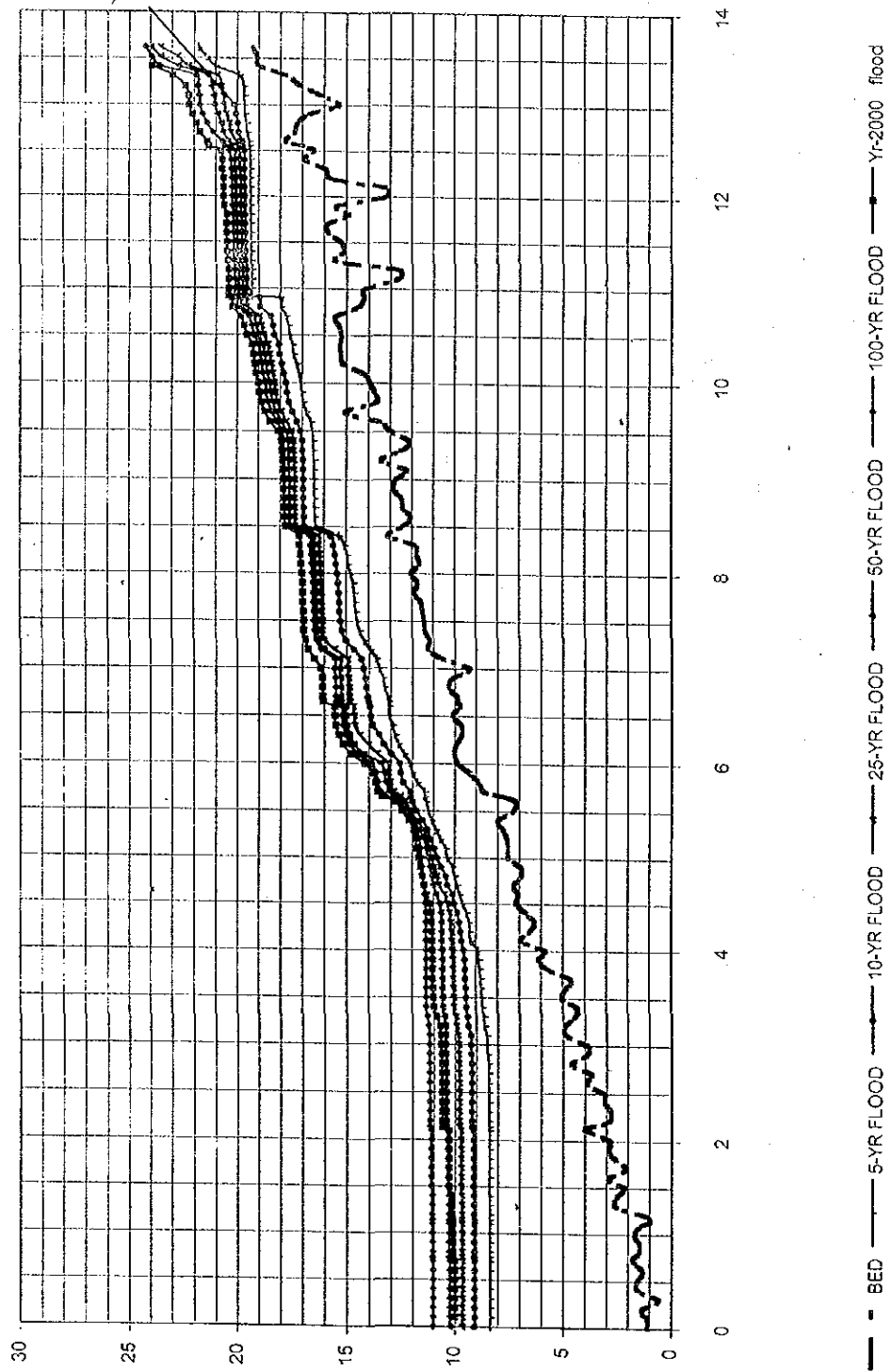


Fig. 3.4-2

Maximum Water Surface Profile of Khlong Wa at Various Return Periods

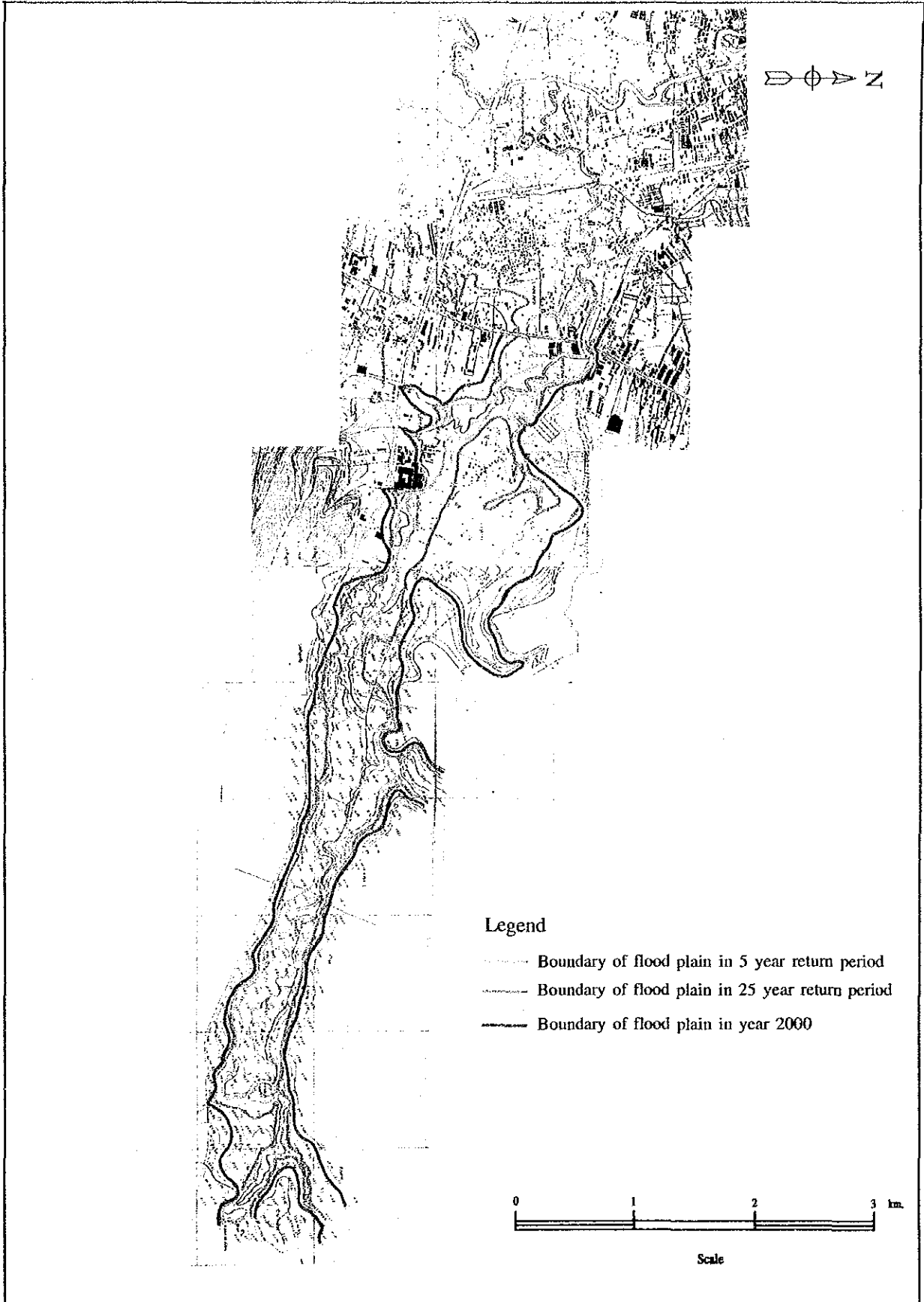
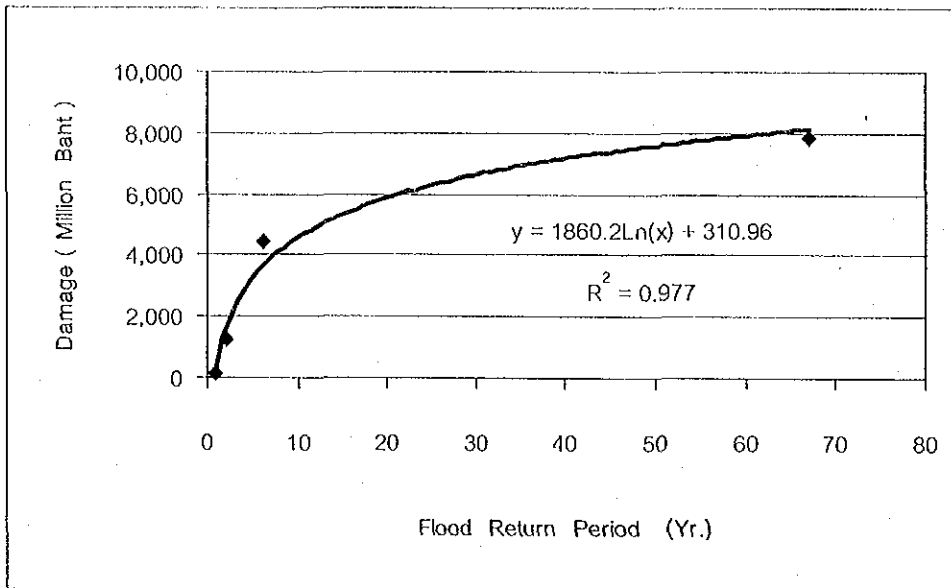
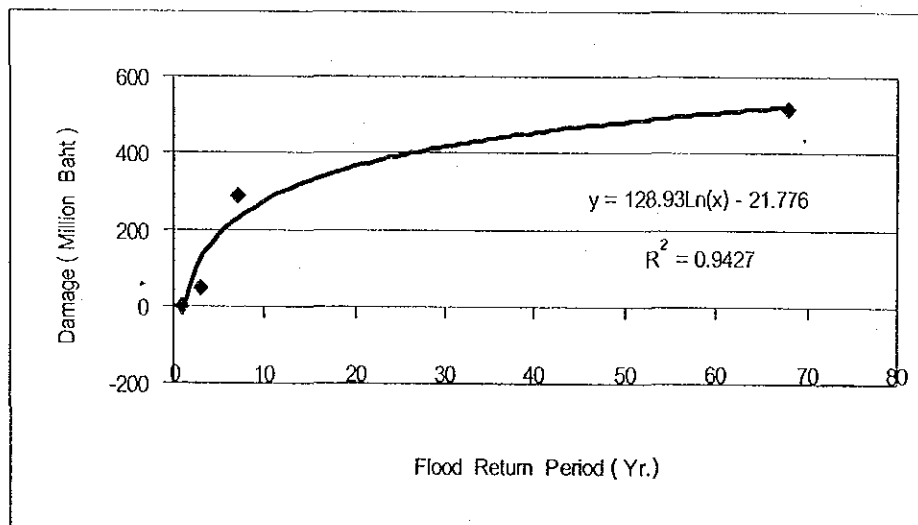


Fig. 3.5-1

The Flood Risk Area in Khlong Wa



Damage Cost-Flood Frequency Curve of principal area base on Year 2002 price



Damage Cost-Flood Frequency Curve of supplementary area base on Year 2002 price

Fig 4.5-1

Damage Cost - Flood Frequency Curve base on Year 2002 price

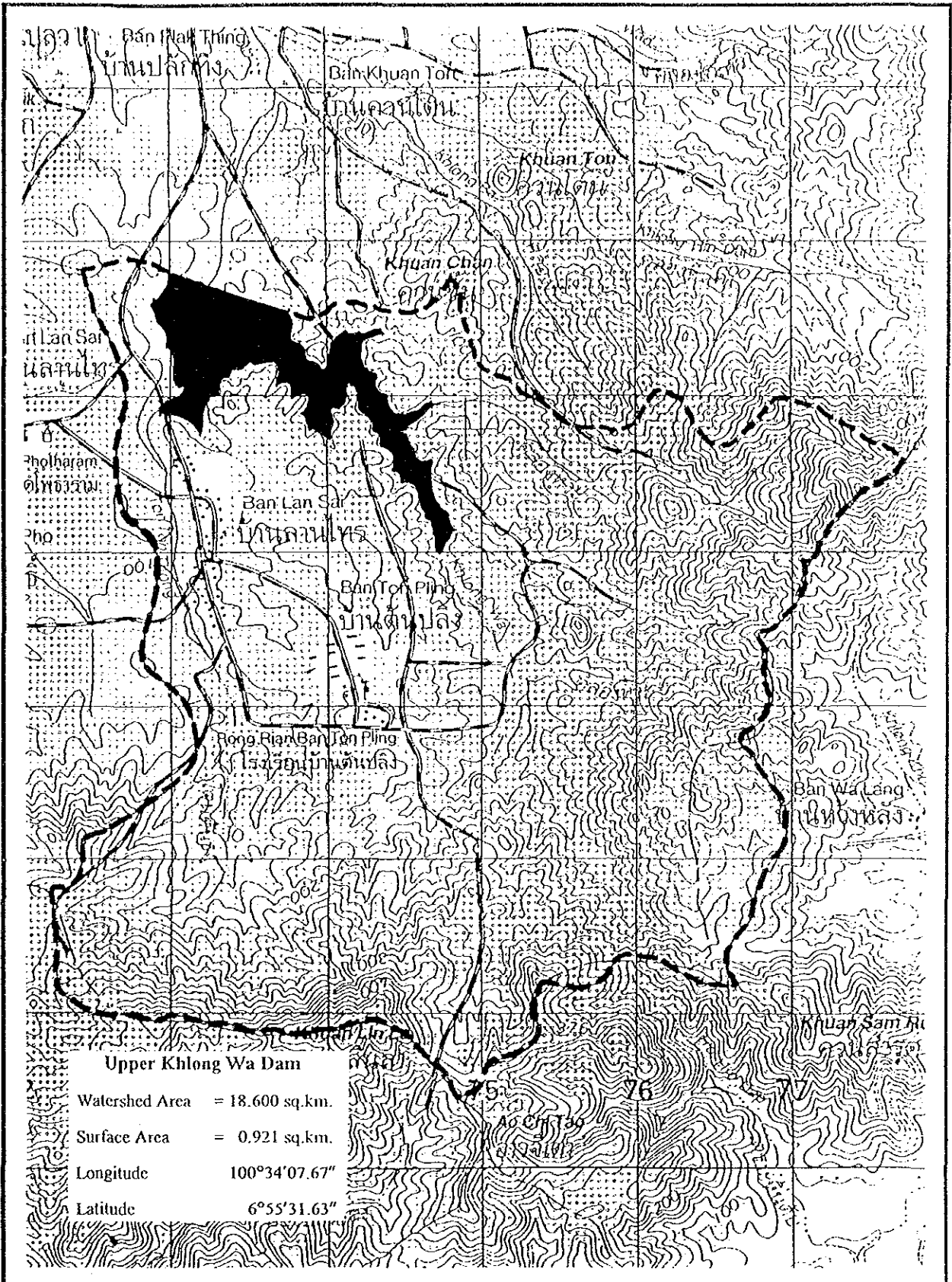
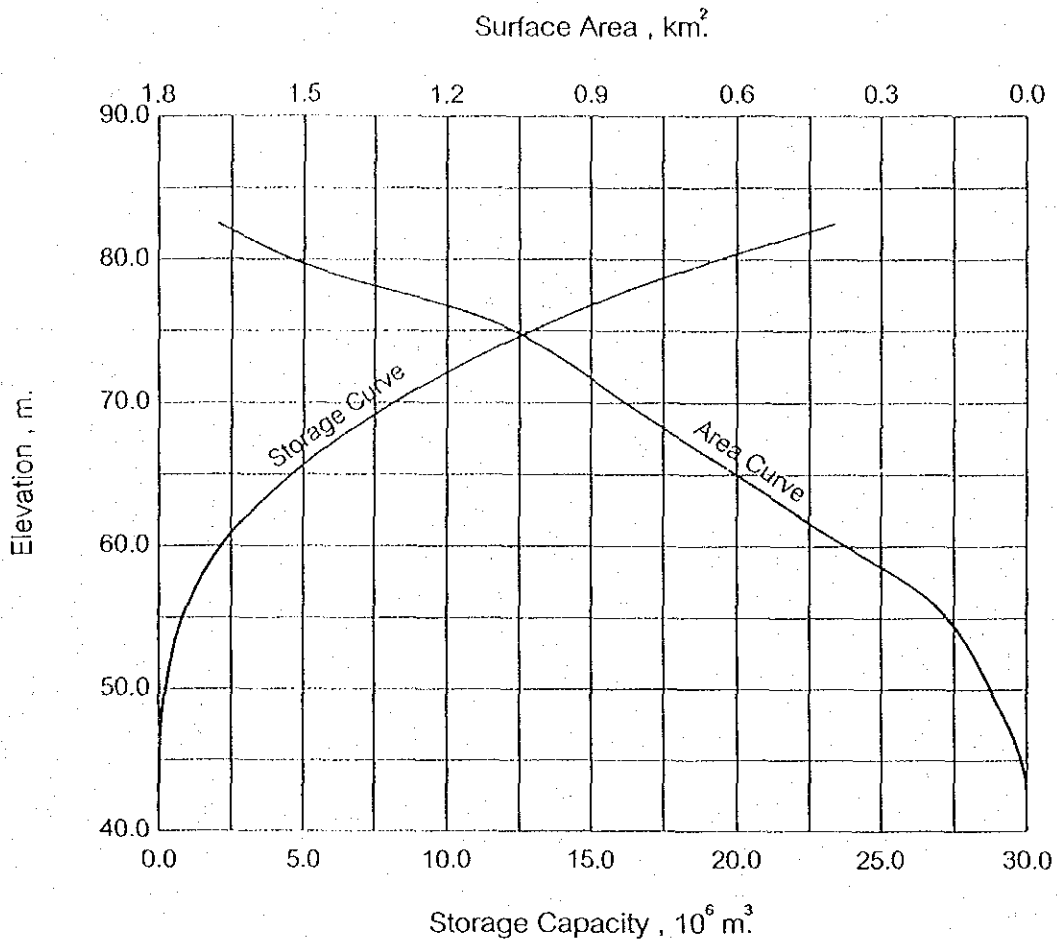


Fig. 5.2-1

Location of Upper Khlong Wa Dam

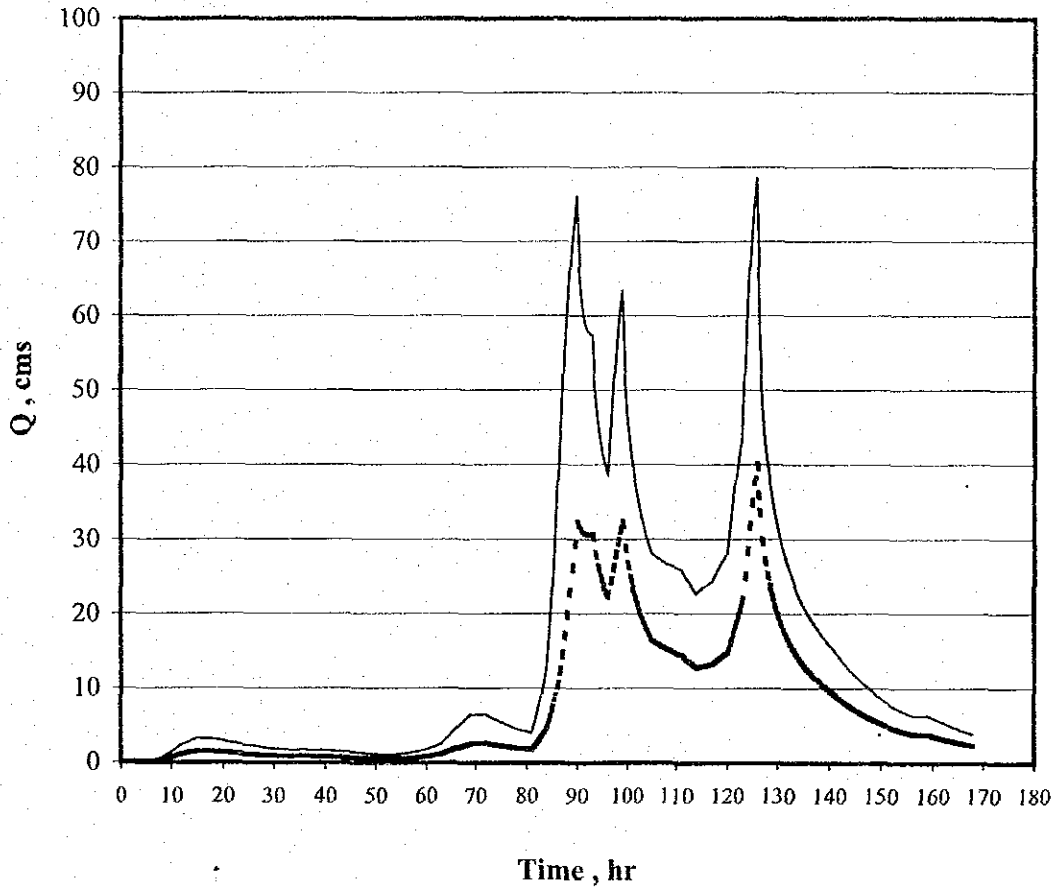


Elev. (m.)	Area (km ²)	Capacity (10 ⁶ m ³)
43.00	0	0
45.00	0.012	0.012
50.00	0.075	0.229
55.00	0.162	0.824
60.00	0.372	2.159
65.00	0.600	4.588
70.00	0.828	8.159
75.00	1.061	12.882
80.00	1.522	19.341
82.50	1.675	23.337

Fig. 5.2-2

Area Capacity Curve of Upper Khlong Wa Dam

Hydrograph at Upper Khlong Wa Dam



- - - Q(cms.) 25 Yrs. — Q(cms.) Yr. 2000

Figure 5.2-3

Design Discharge Hydrograph at Upper Khlong Wa Dam

Design Discharge at Station X.174

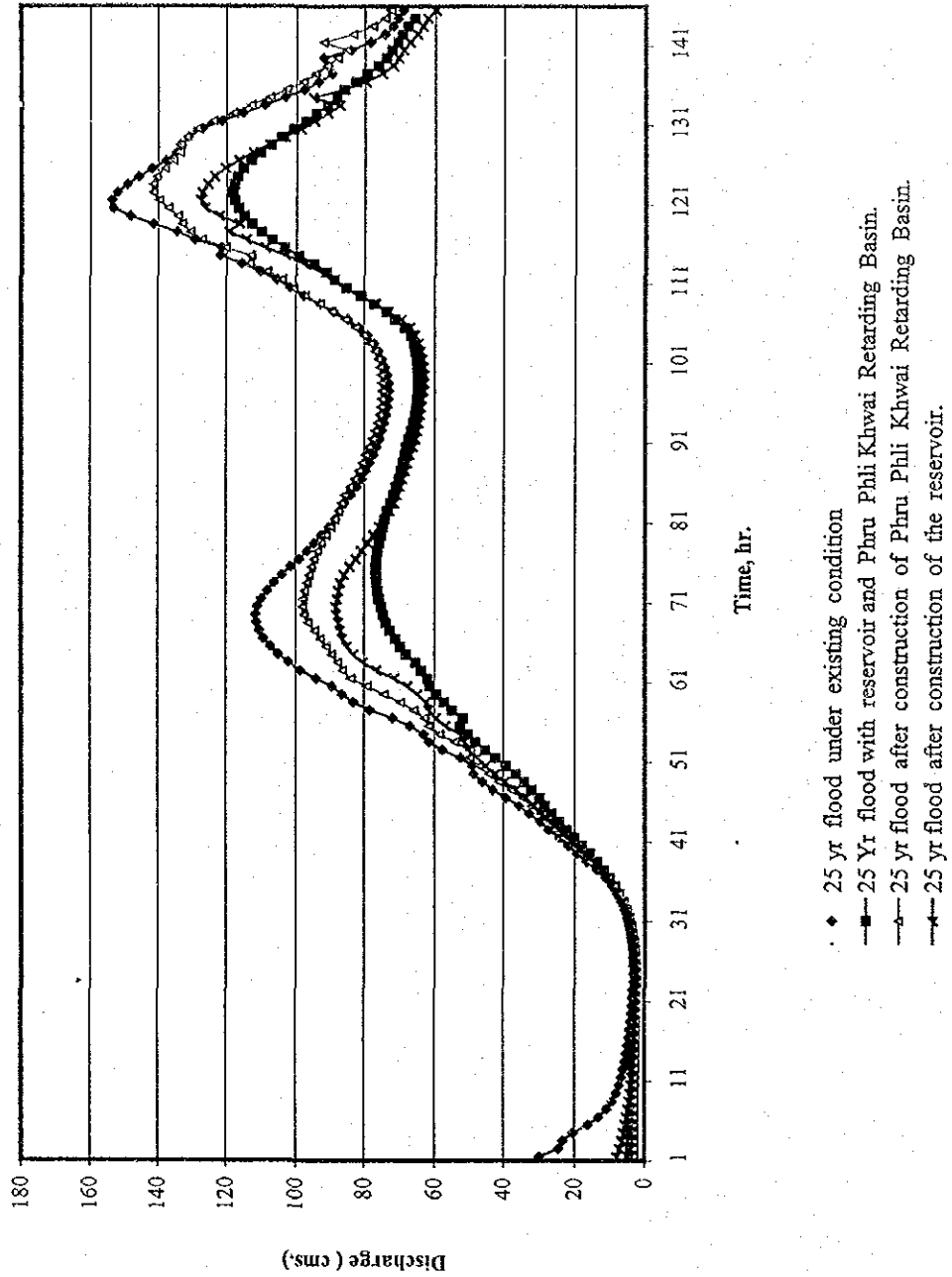
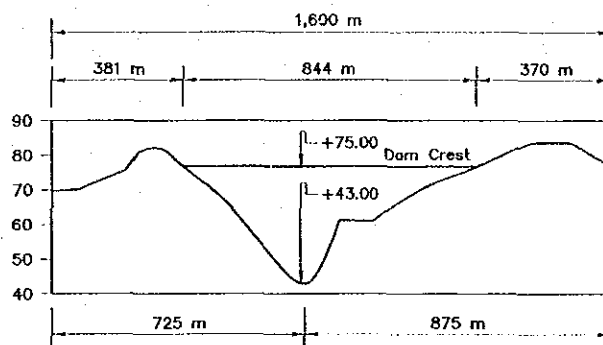
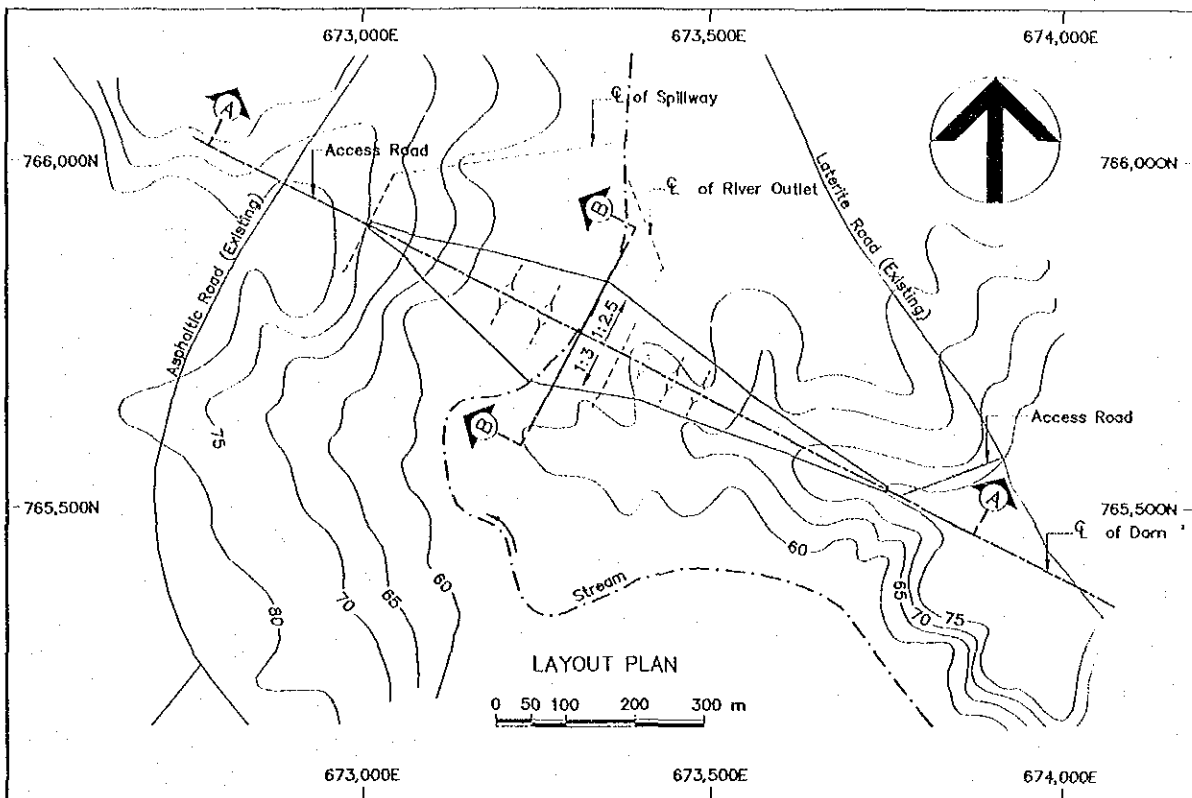
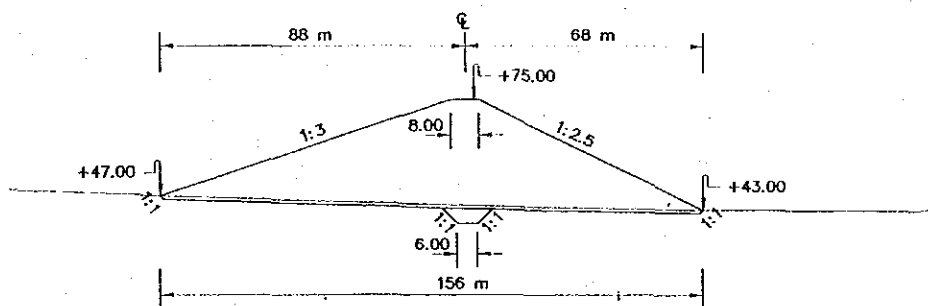


Fig. 5.2-4

Design Regulated Discharge Hydrograph at Station X.174



SECTION (A) - (A)



SECTION (B) - (B)

Fig. 5.2-5

Layout of Upper Khlong Wa Dam

Discharge Hydrograph at Phru Phli Khwai Retarding Basin for 25 Yr flood

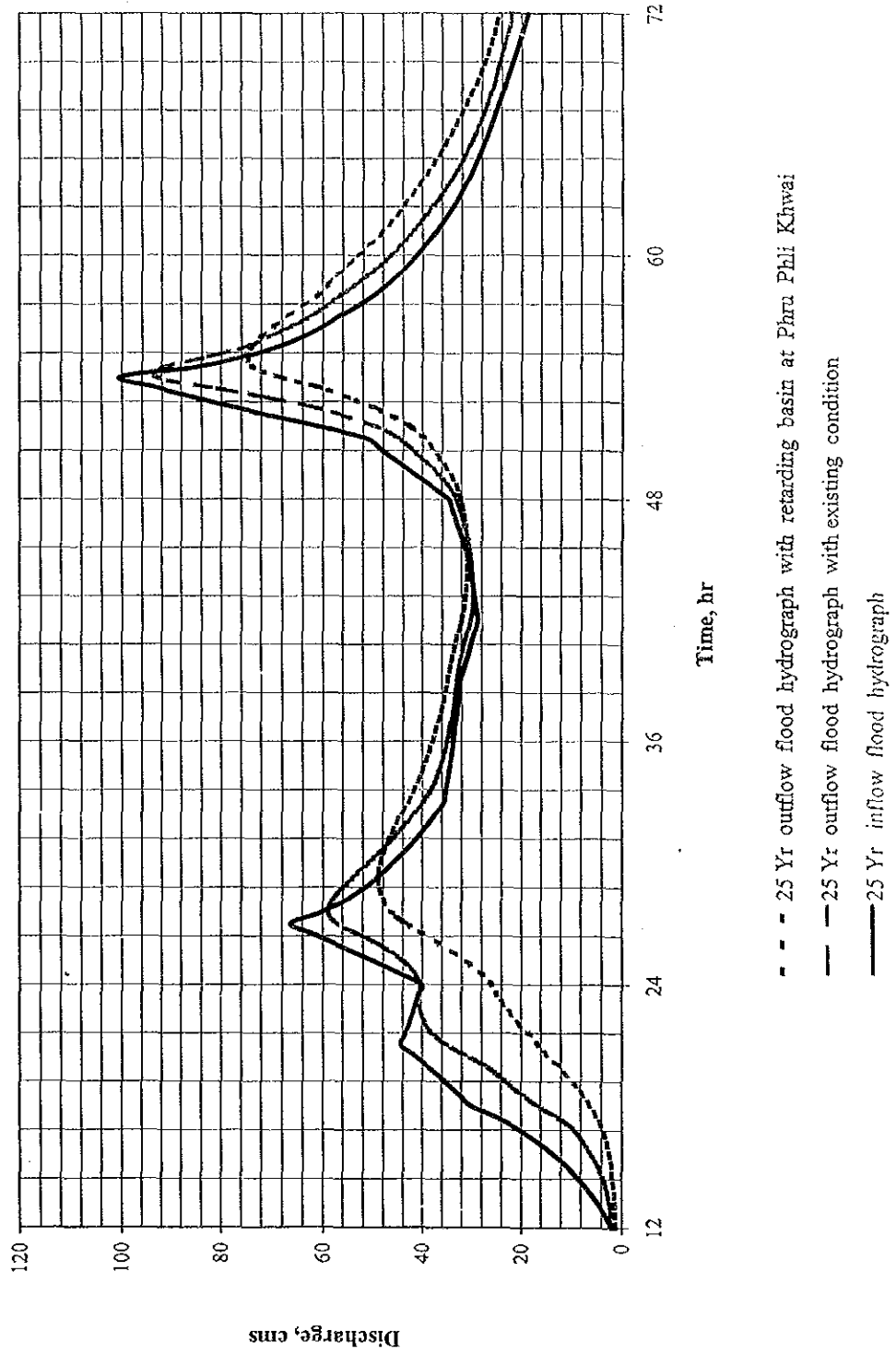


Fig. 5.3-2

Discharge Hydrograph at Phru Phli Khwai Retarding Basin for 25 Yr. Flood

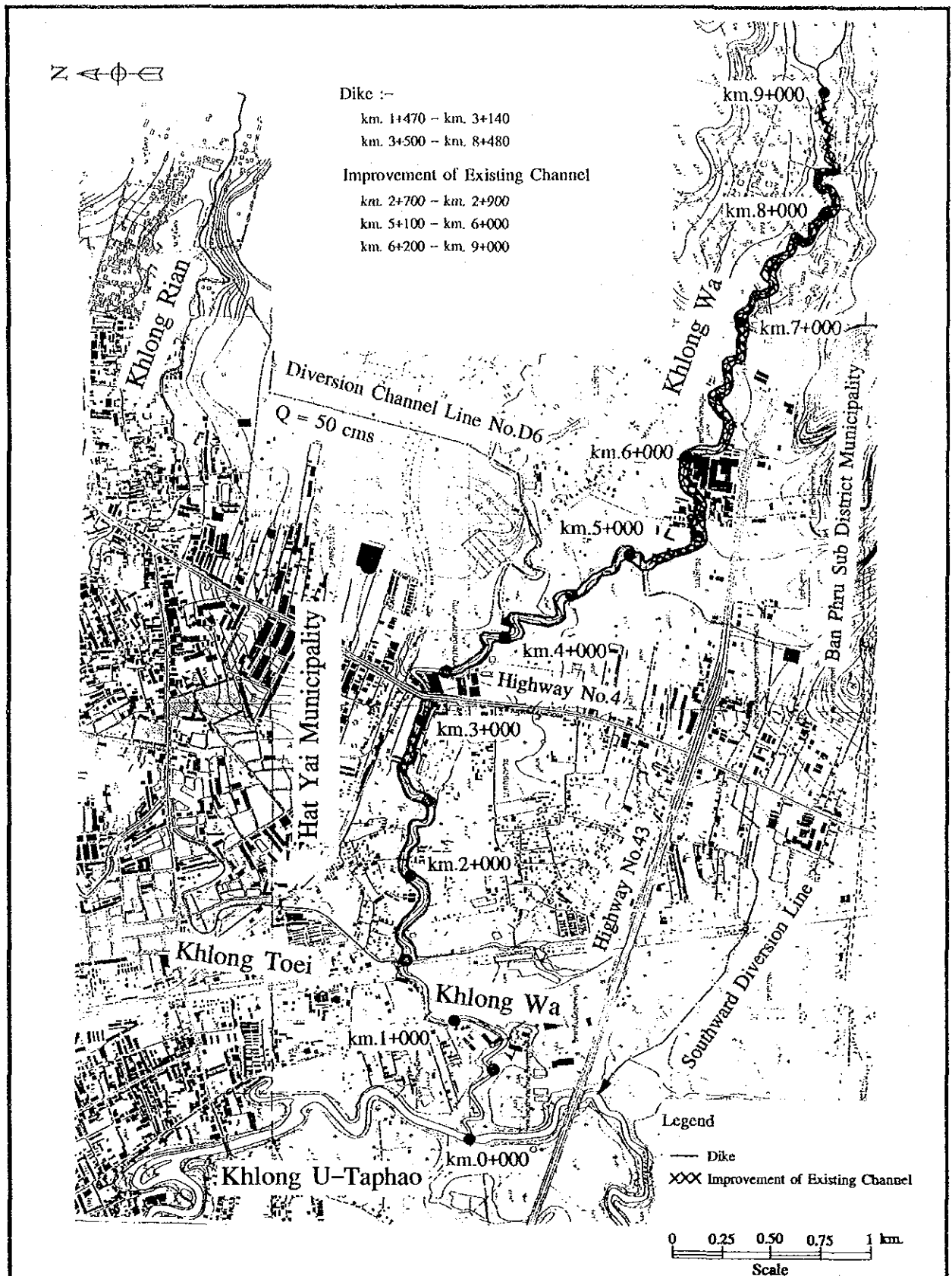


Fig. 5.5-1

Existing Alingment and Improvement of Khlong Wa

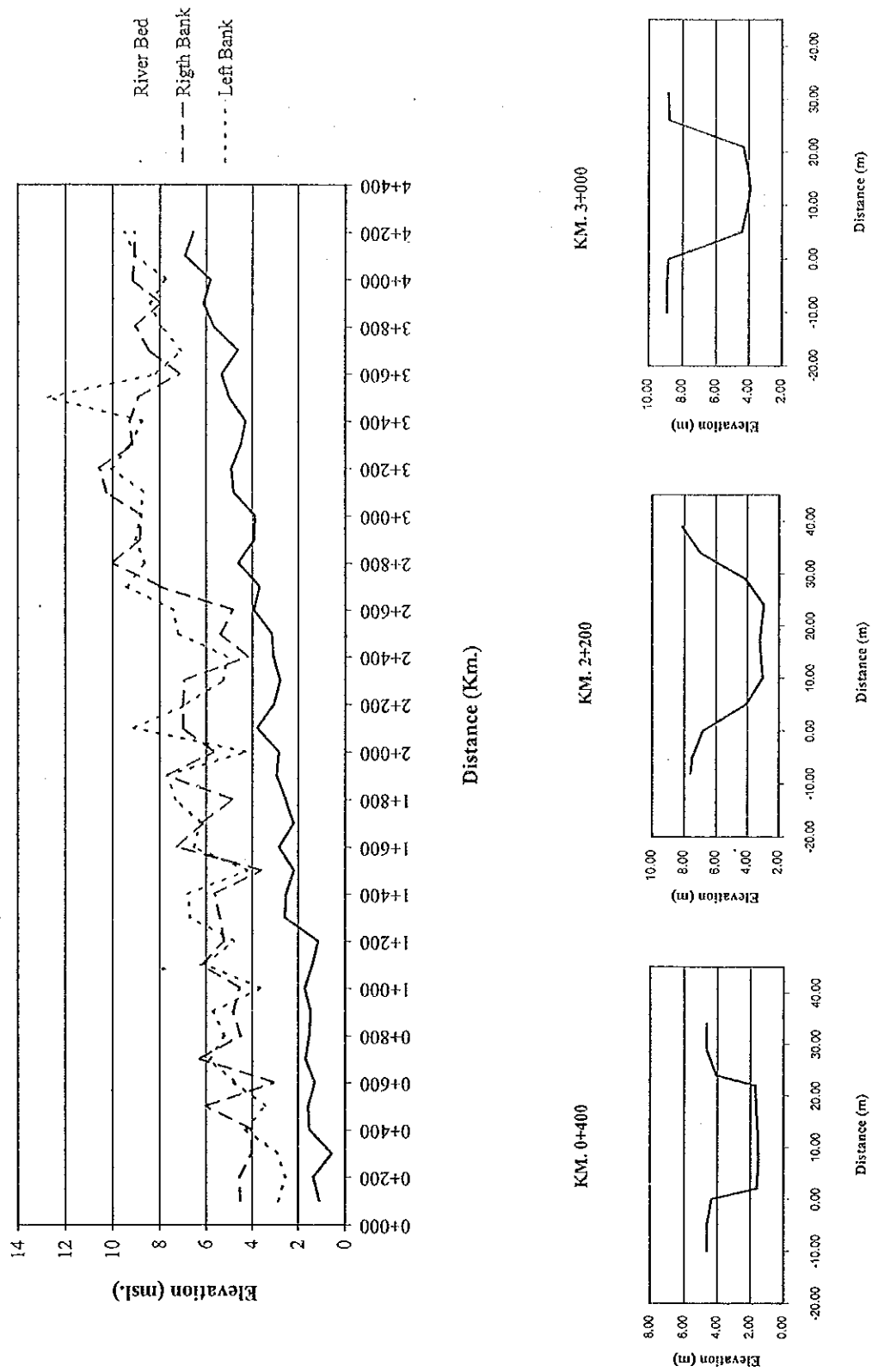


Fig. 5.5-2

Typical Existing Profile and Cross-section of Khlong Wa

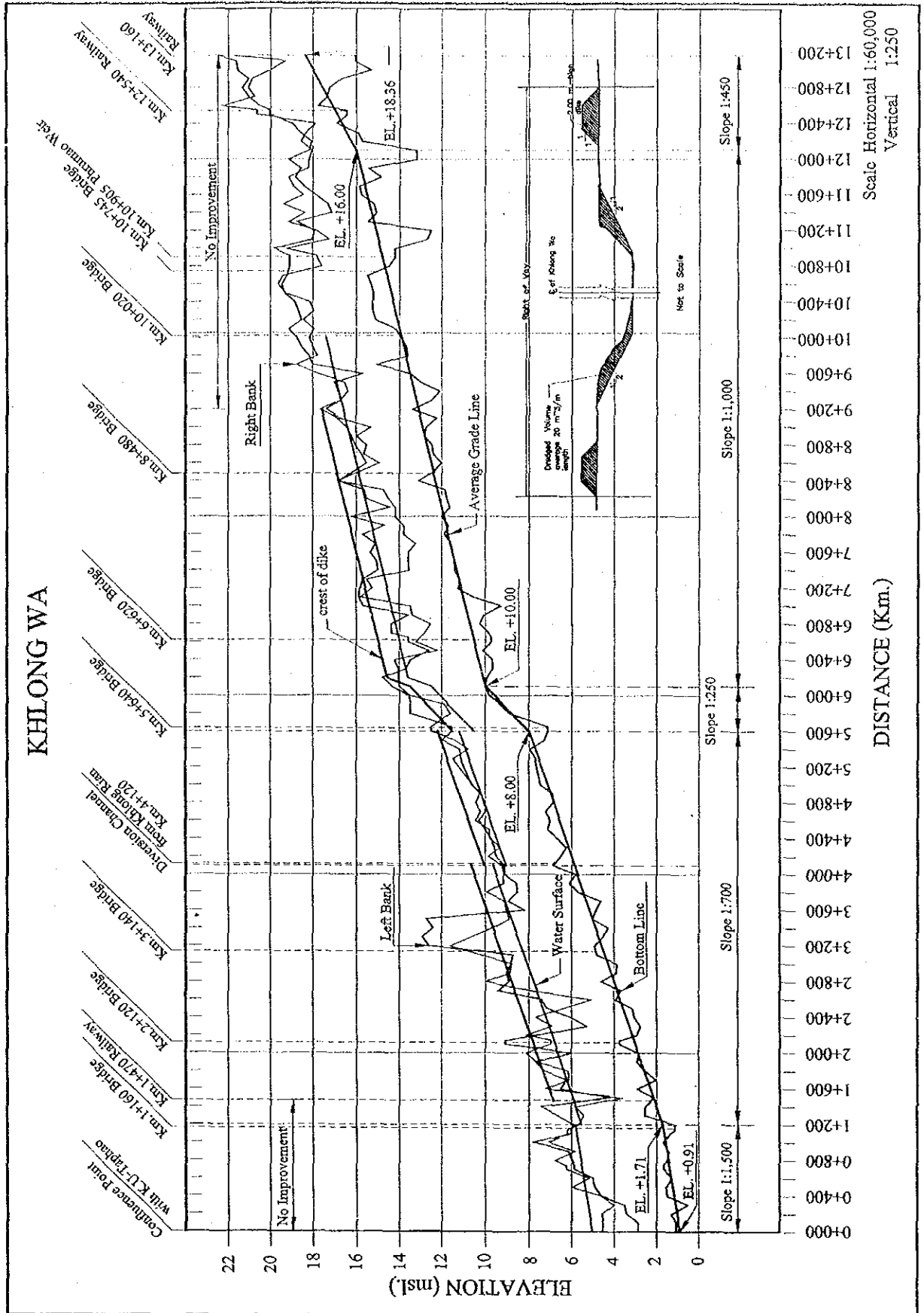


Fig. 5.5-3

Typical Design Profile and Cross-section of Khlong Wa

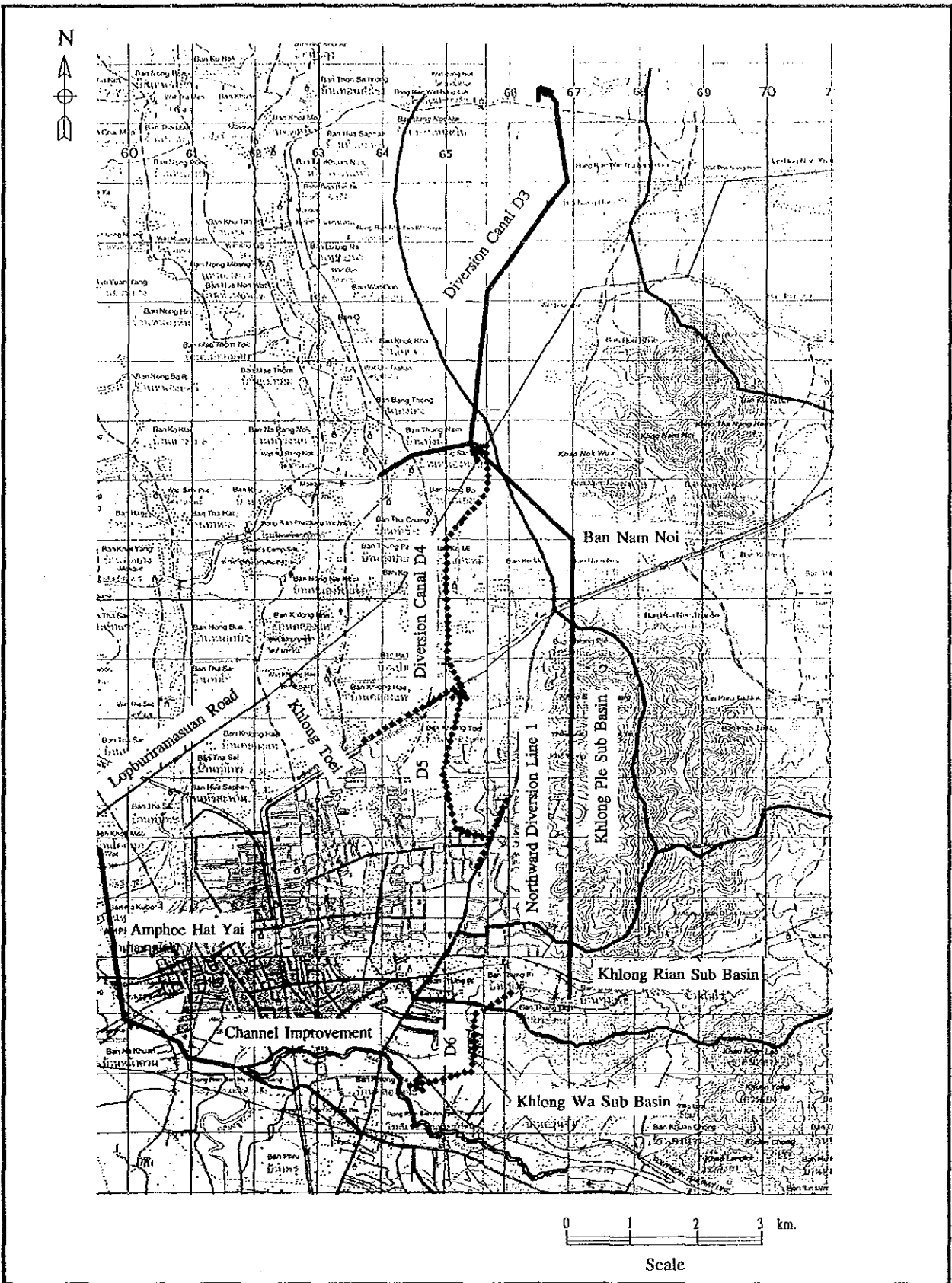


Fig. 5.6-1

Location of The Northward Diversion Line No.1

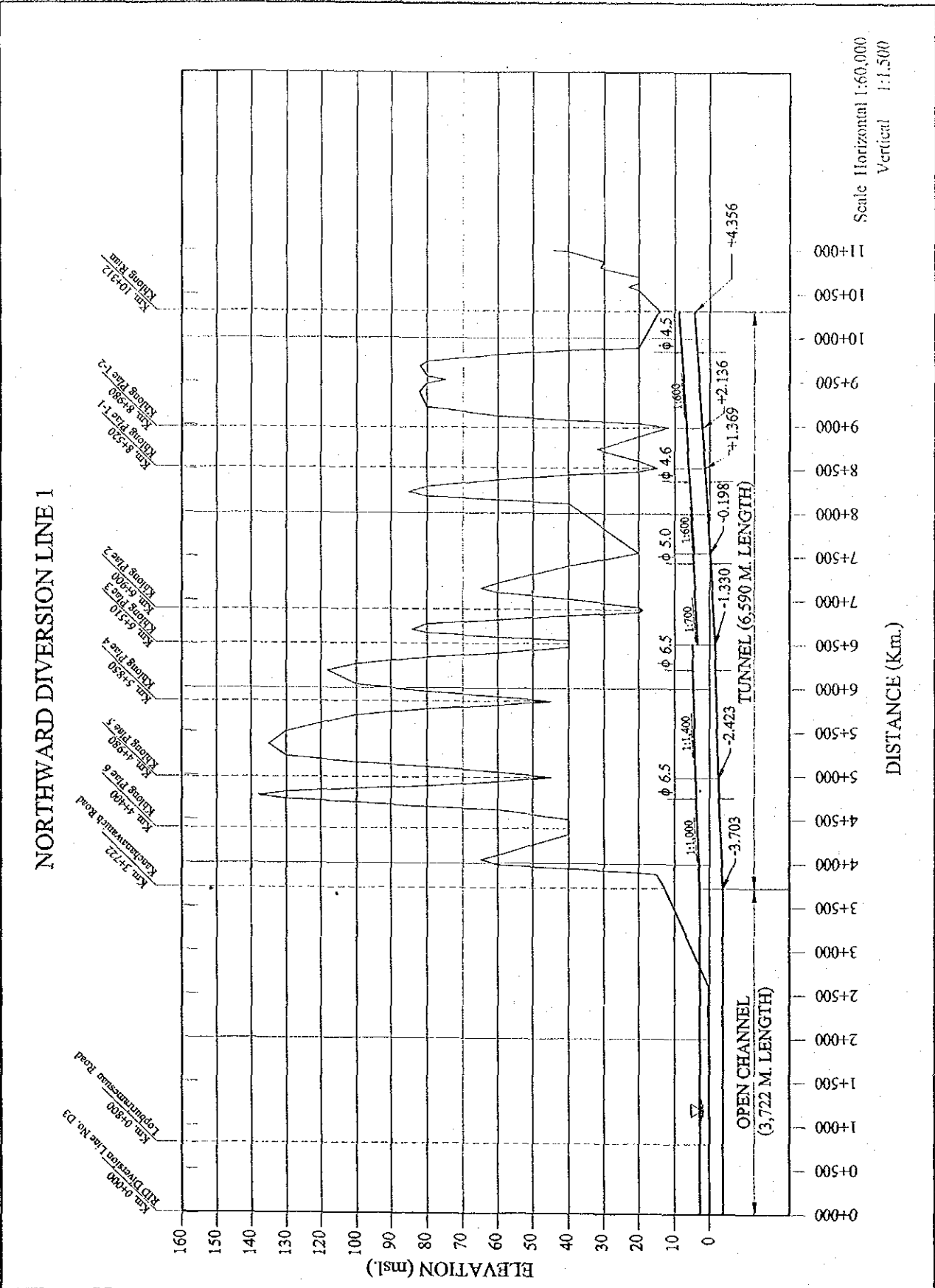


Fig. 5.6-2

Profile and Main Features of Northward Diversion Line No. 1

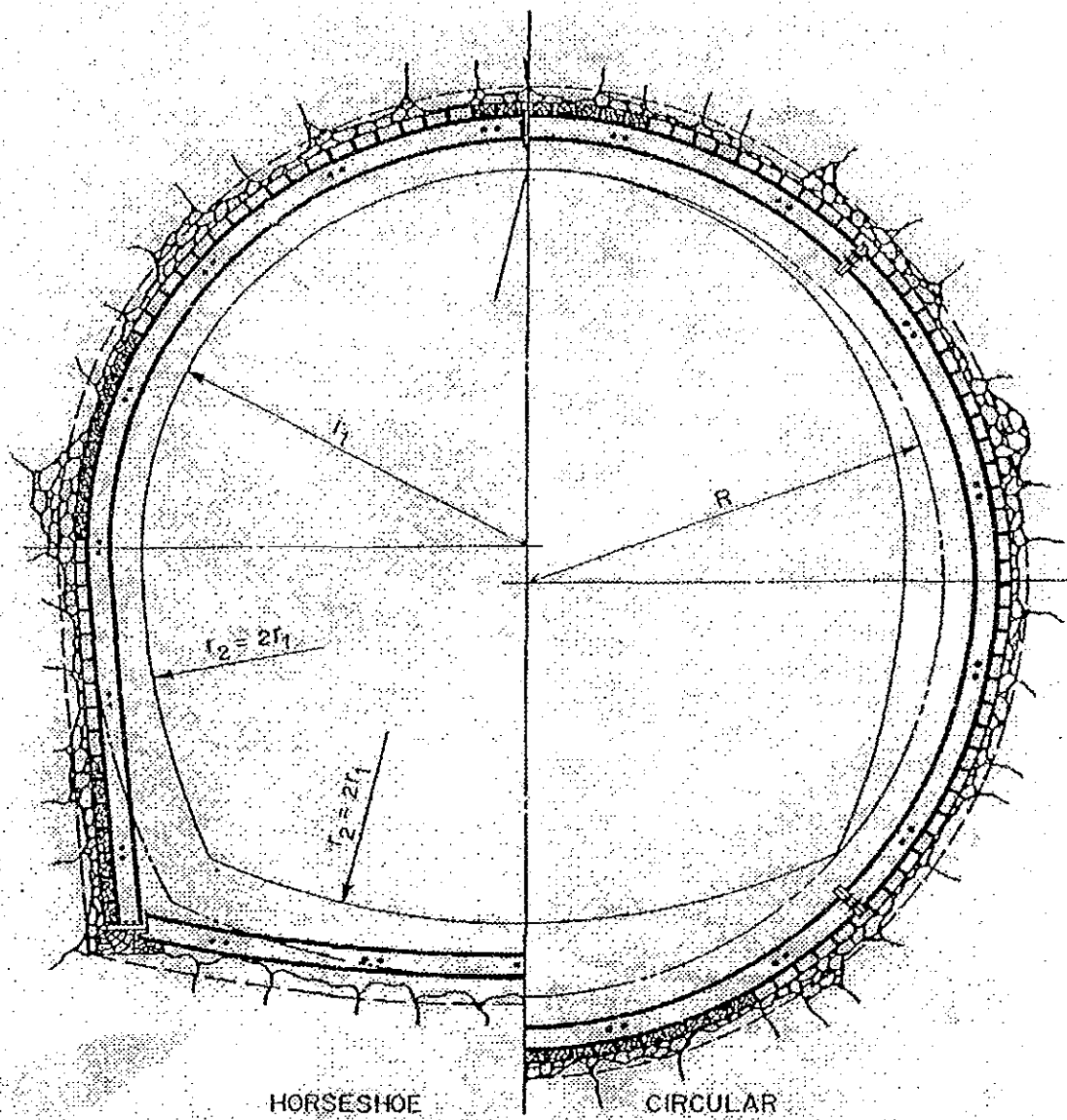


Fig. 5.6-3

Typical Section of Tunnel

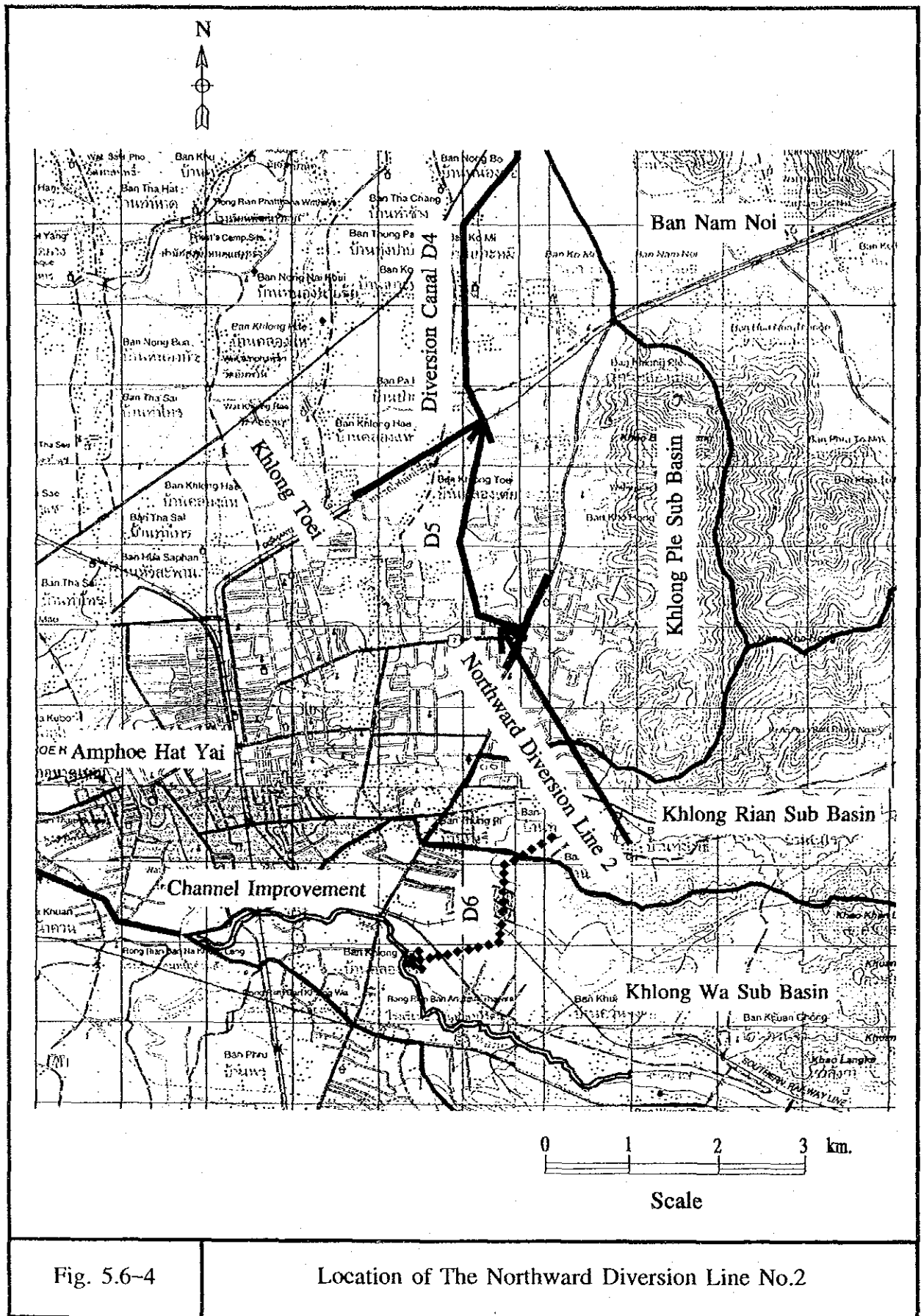


Fig. 5.6-4

Location of The Northward Diversion Line No.2

NORTHWARD DIVERSION LINE 2

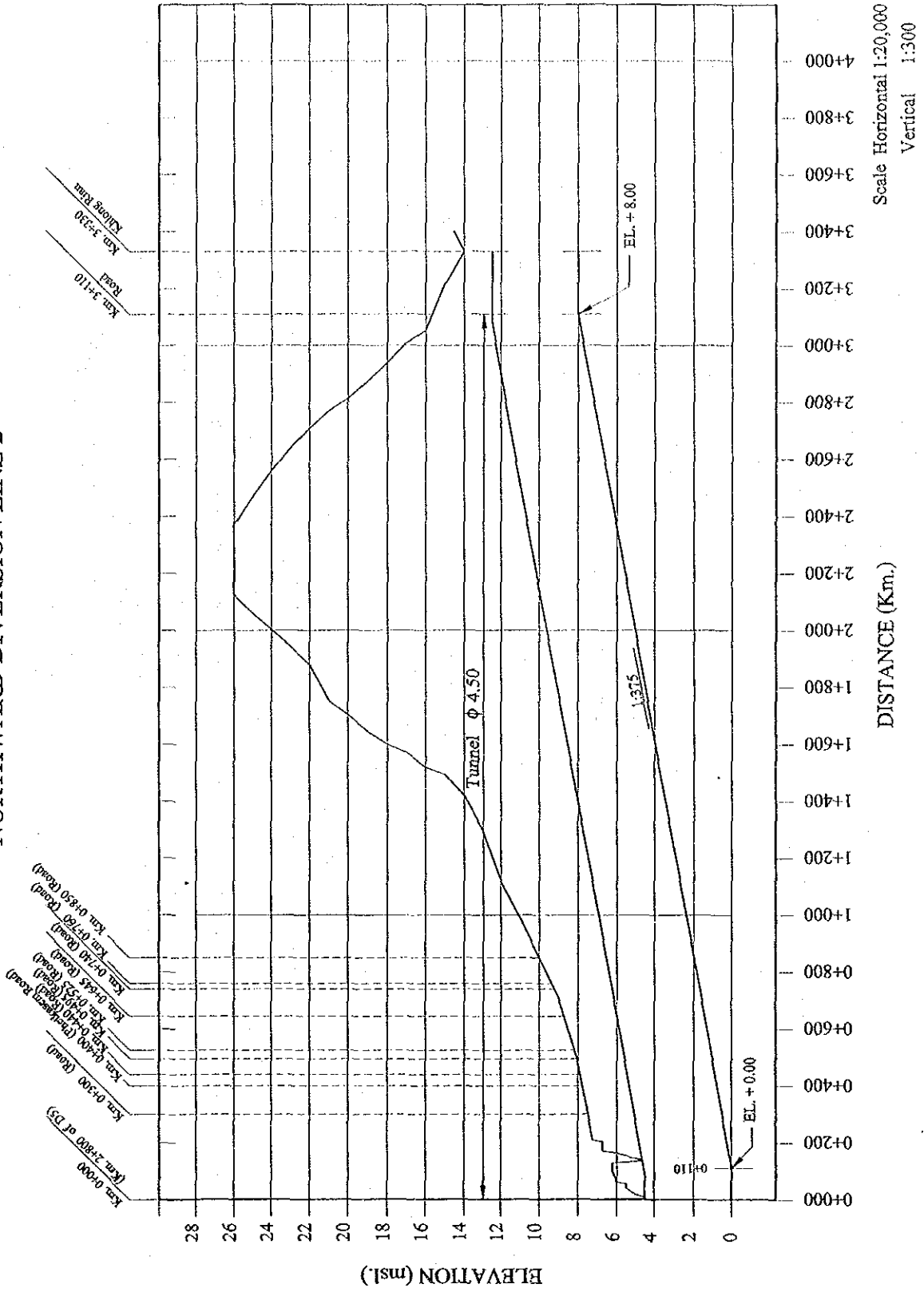


Fig. 5.6-5

Profile and Main Features of Northward Diversion Line No. 2

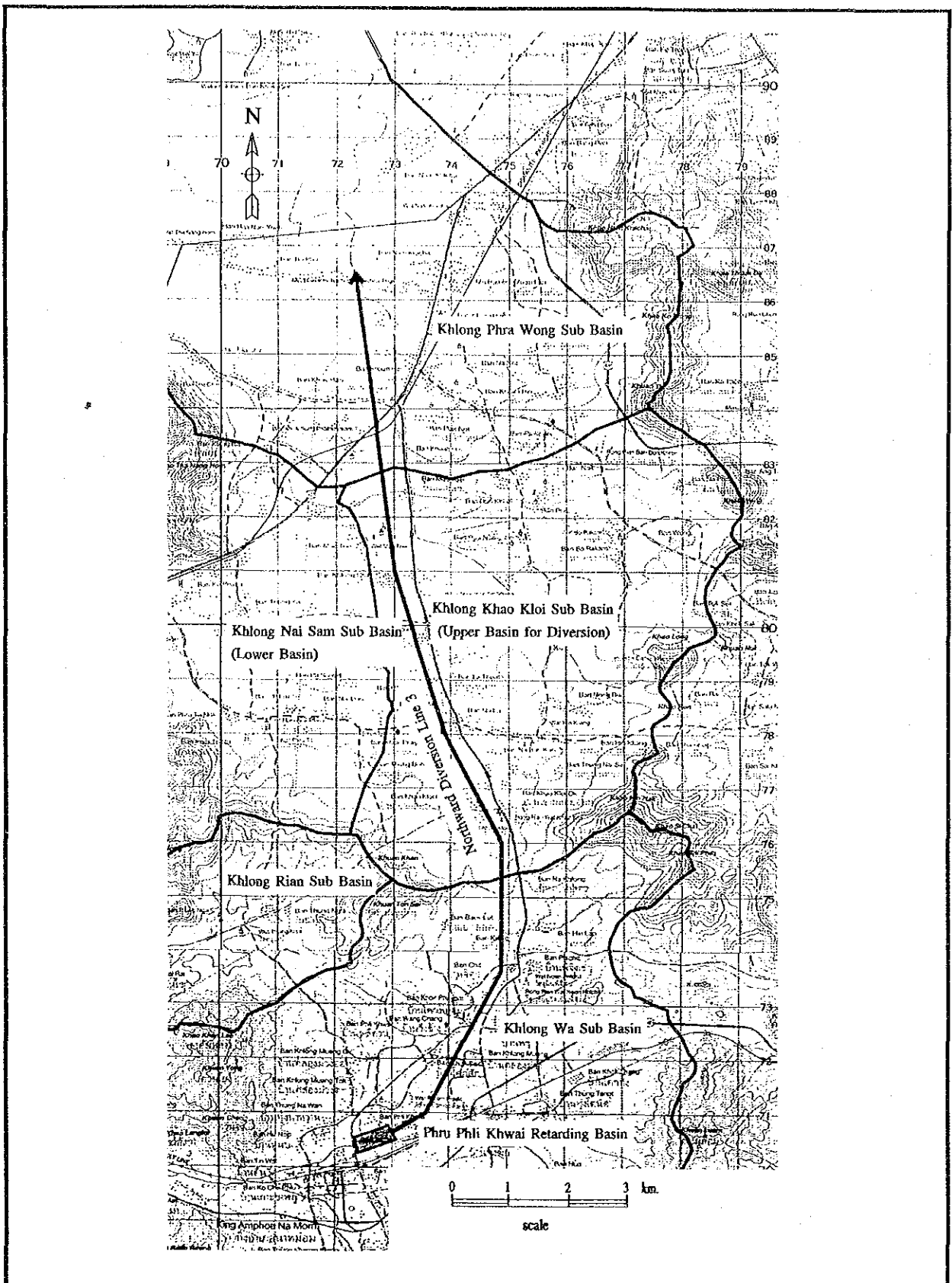
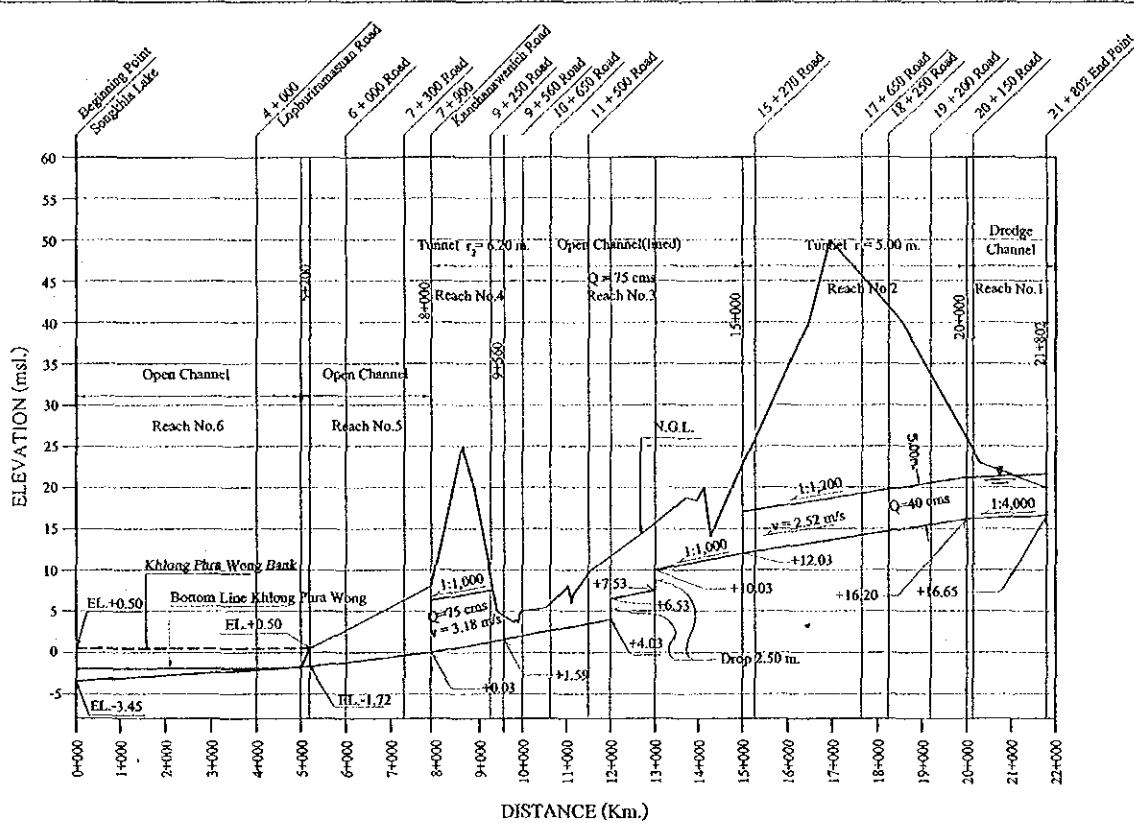
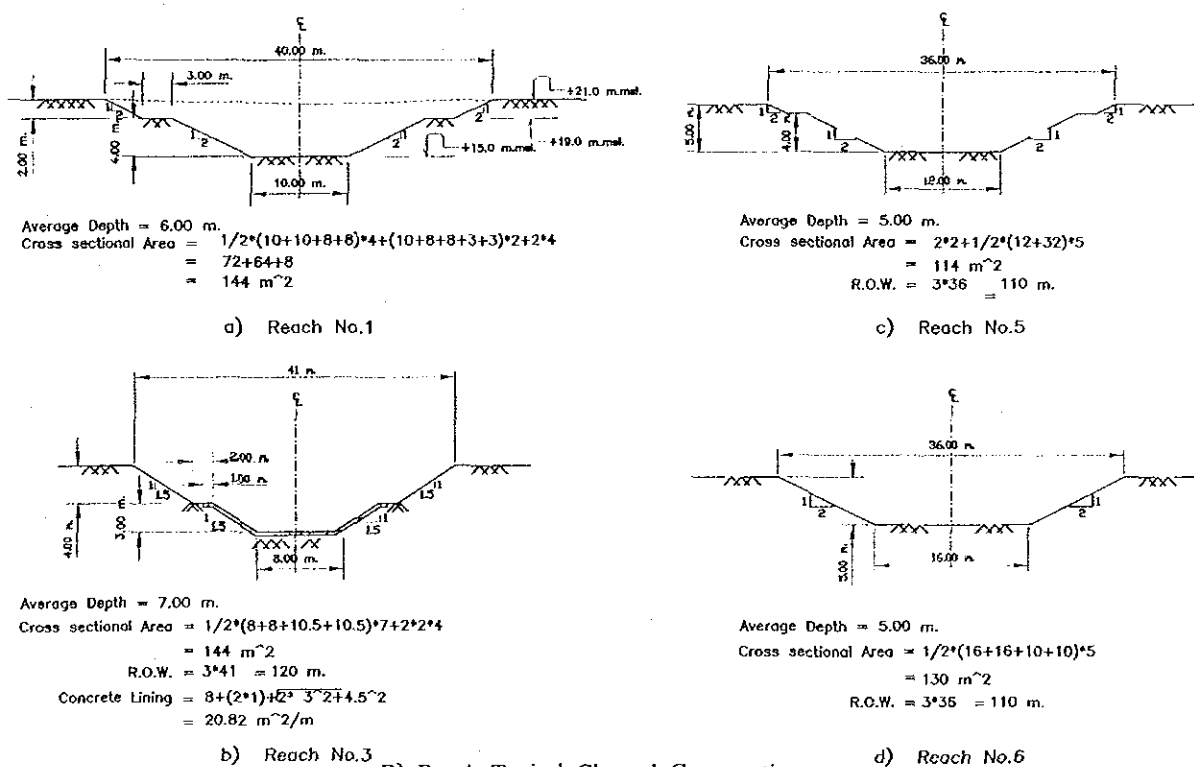


Fig. 5.6-6

Location of The Northward Diversion Line No.3



A) Hydraulic Profile of Northward Diversion Line 3



B) Reach Typical Channel Cross sections

Fig. 5.6-7

Hydraulic Profile and Typical channel cross sections of Northward Diversion line No. 3

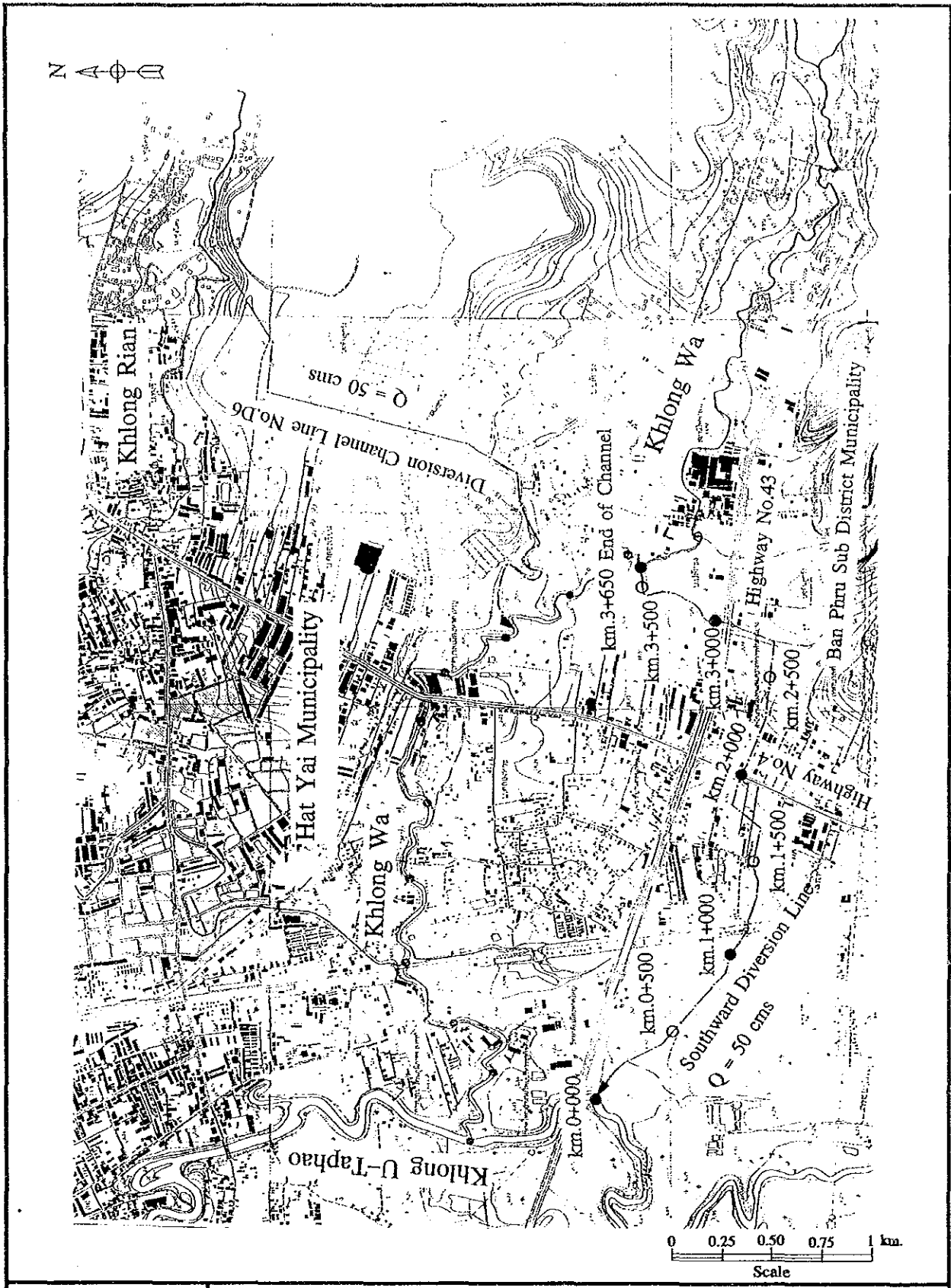


Fig. 5.7-1

Location of The Southward Diversion

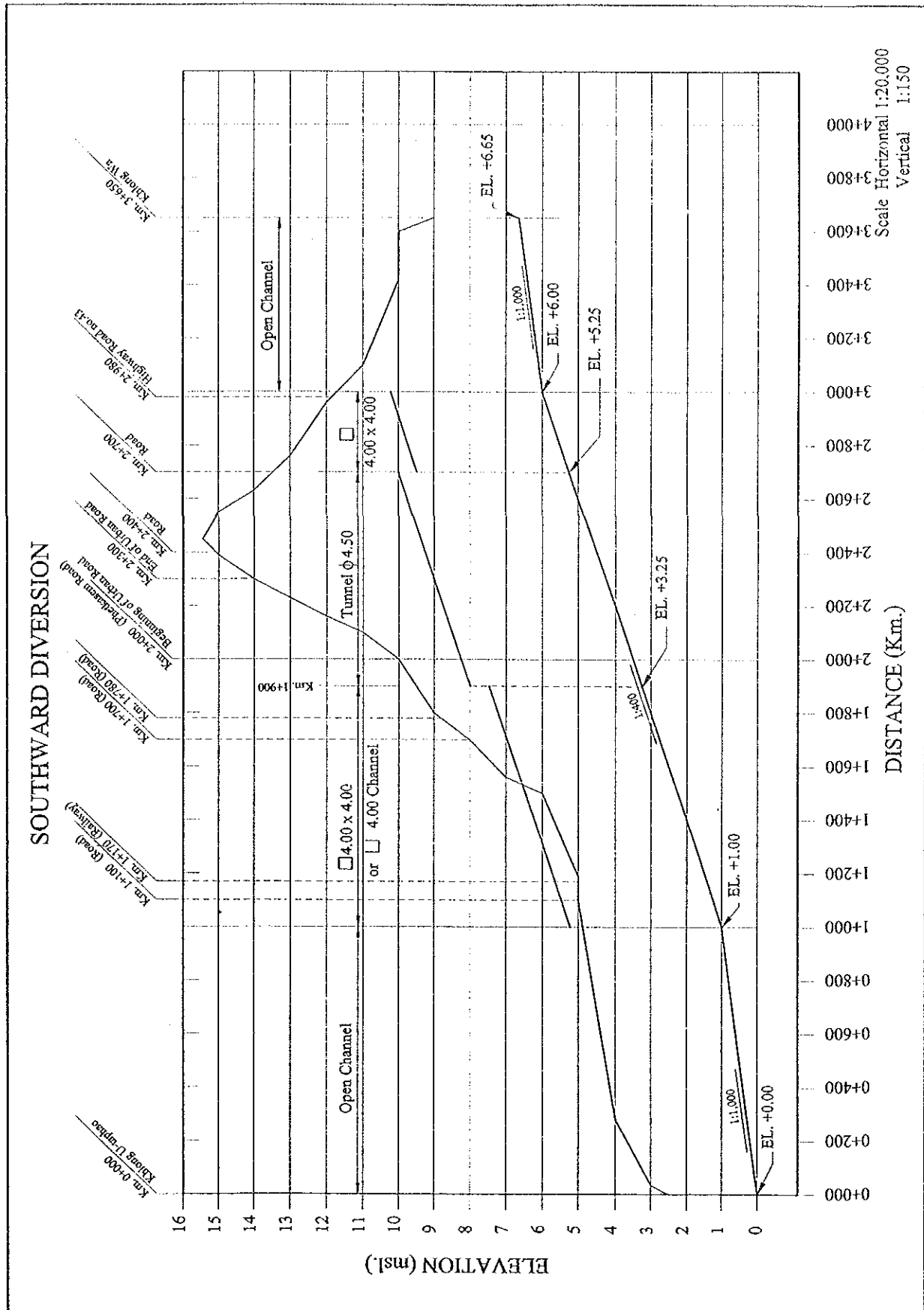


Fig. 5.7-2

Profile and Main Features of Southward Diversion

