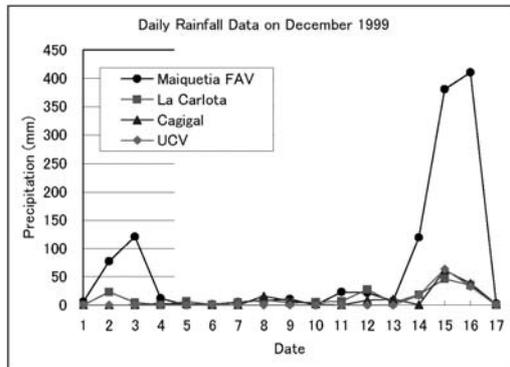


Rainfall Stations which operated at the event of December 1999

(mm)

date	Maiquetia FAV	La Carlota	Cagigal	UCV
1	6.0	0.0	0.3	-
2	77.3	23.2	0.0	-
3	121.2	4.7	0.9	-
4	11.8	0.0	2.8	-
5	0.0	6.7	1.8	-
6	1.1	0.6	0.6	-
7	5.0	3.8	0.0	-
8	8.1	9.0	16.0	-
9	10.4	3.9	7.3	-
10	0.0	5.0	1.9	-
11	23.2	6.8	0.3	-
12	21.8	28.1	8.6	-
13	7.1	4.0	10.8	-
14	120.0	18.6	0.6	17.5
15	380.7	46.2	61.5	63.7
16	410.4	34.9	38.6	32.8
17	2.9	0.6	1.5	-
sum	1207.0	196.1	153.5	114.0



Daily Rainfall Amount at the event of December 1999

Maiquetia	Cagigal	UCV	La Carlota
1560 years	4 years	5 years	1 year

Return Period of the Daily Rainfall in December 1999

图 4.1.1 雨量観測所位置



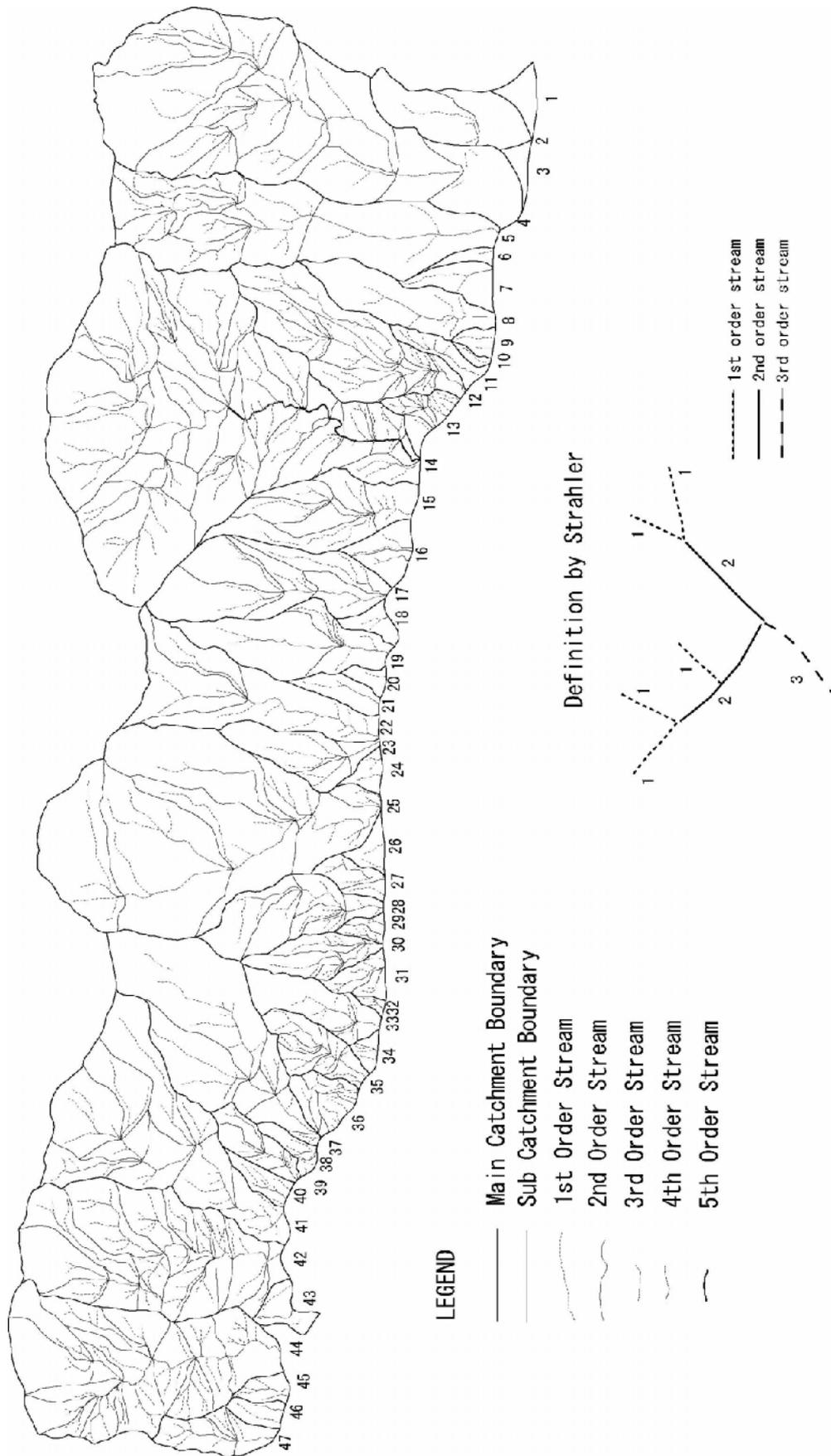


図 4.1.3 溪流の流域分割

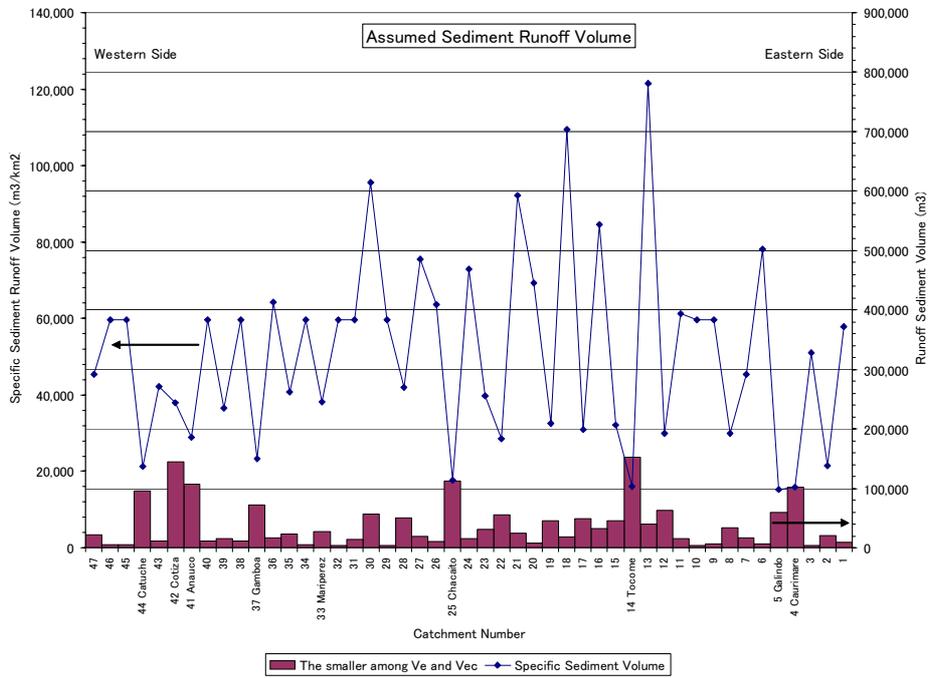


図 4.1.4 シナリオ洪水による推定土砂流出量

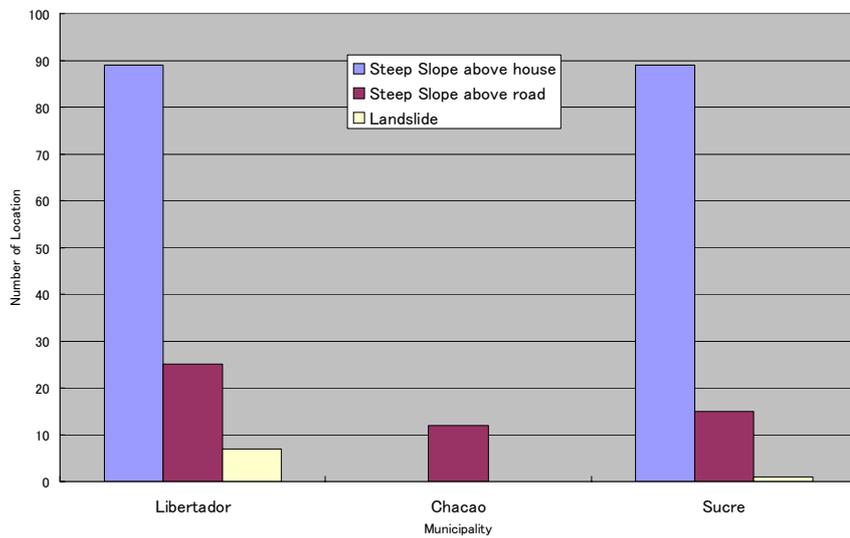


図 4.1.5 不安定な地すべりと急傾斜地崩壊の数



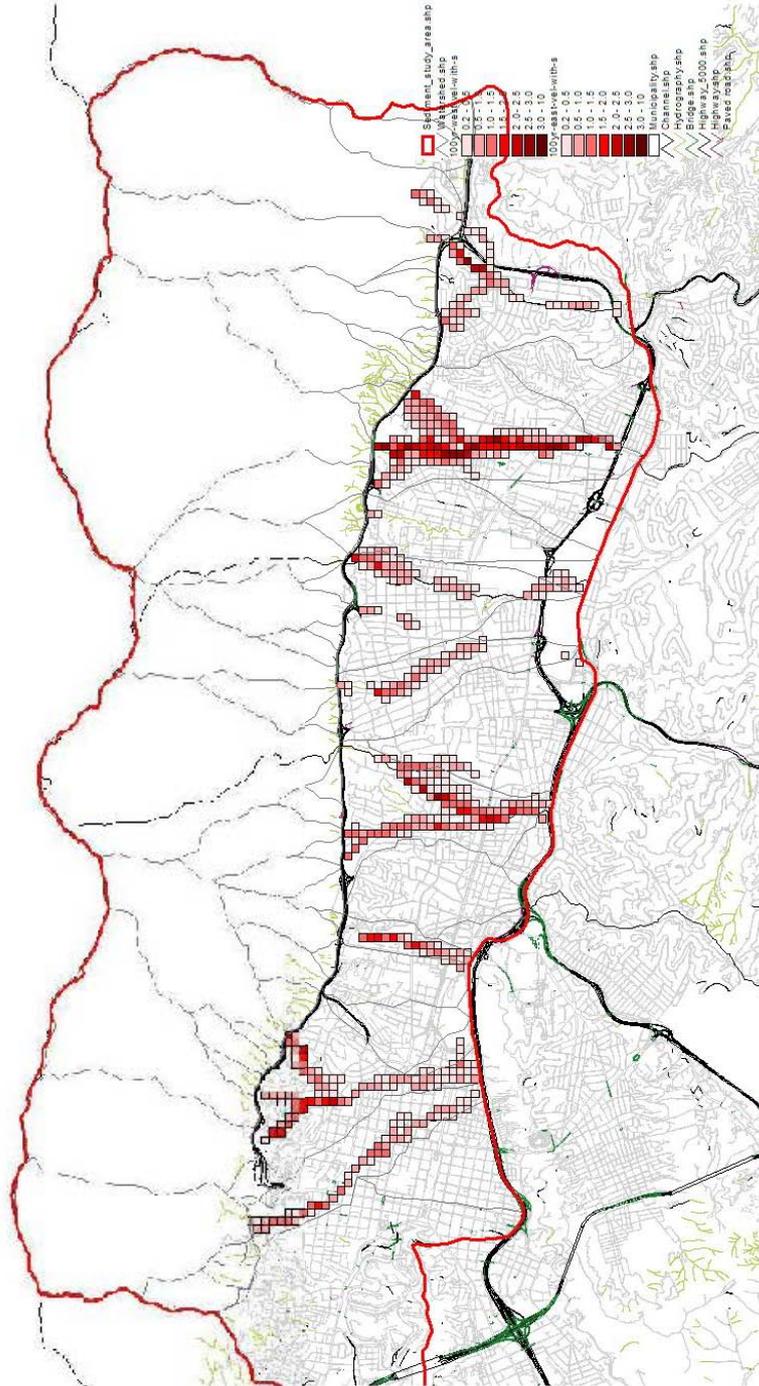


図 4.1.7 現状での 100 年確率土石流の流速分布



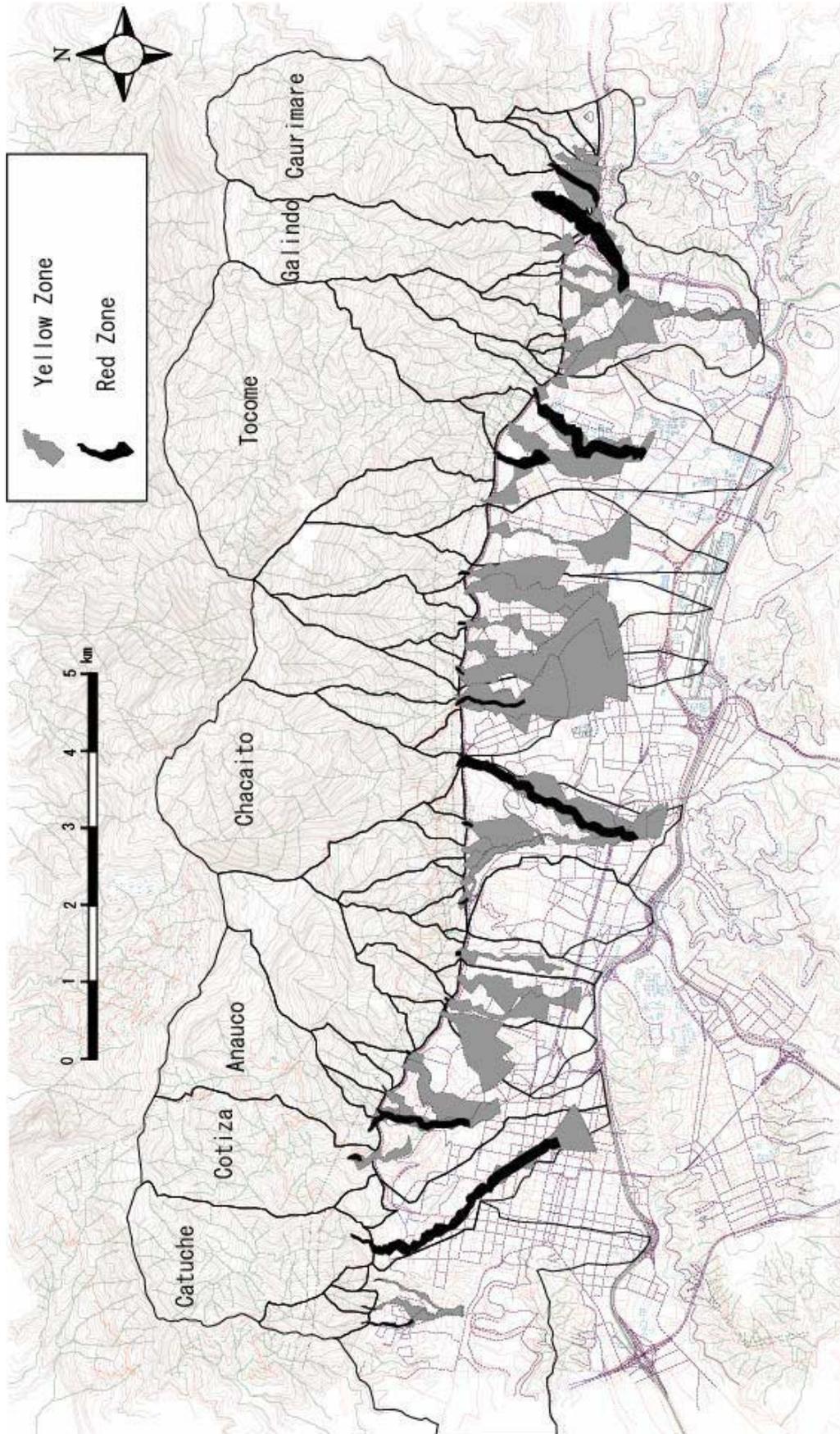


図 4.1.9 土砂新法の方法による土石流ハザードマップ

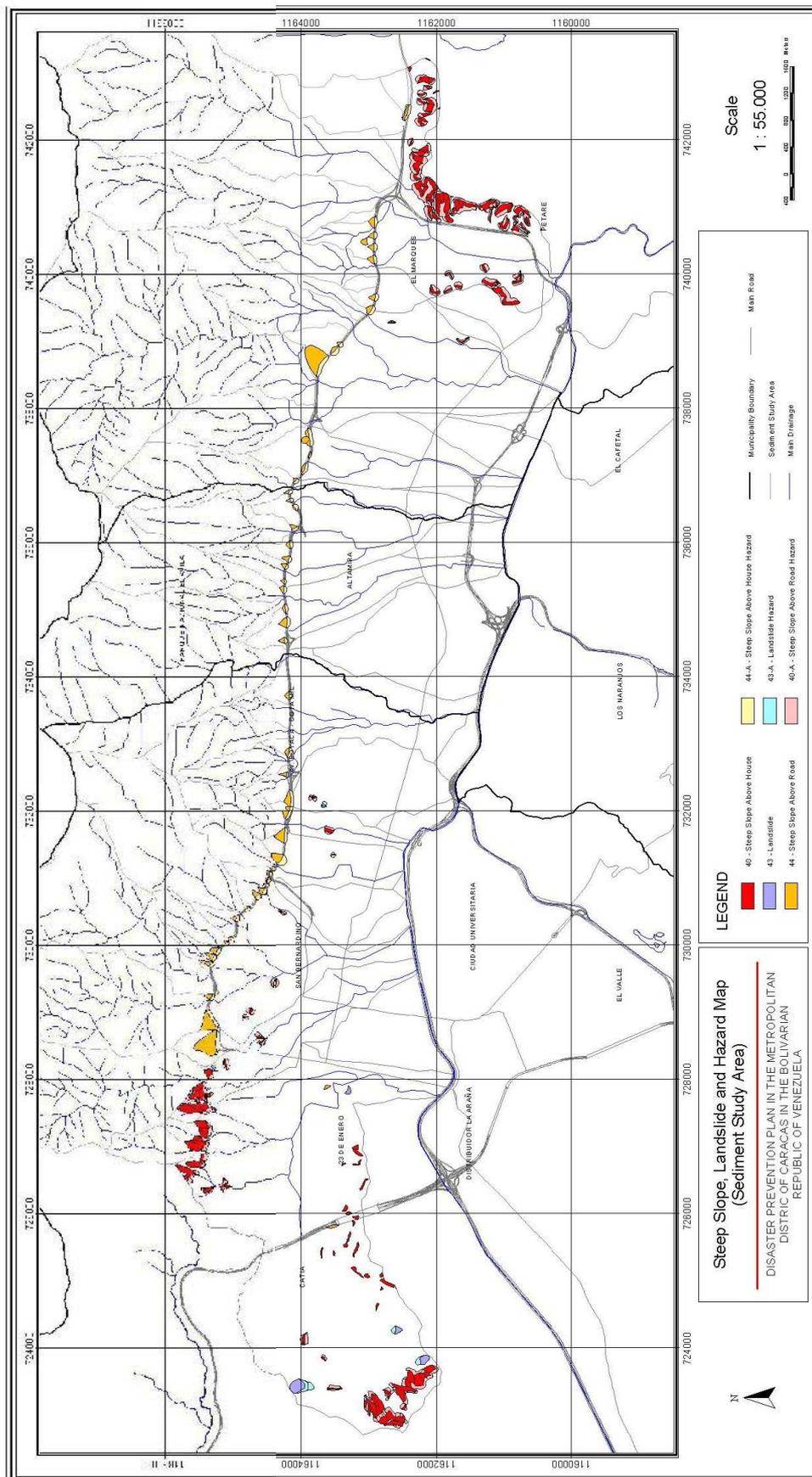


図 4.2.1. 地すべり/急傾斜地崩壊 ハザードマップ/リスクマップ



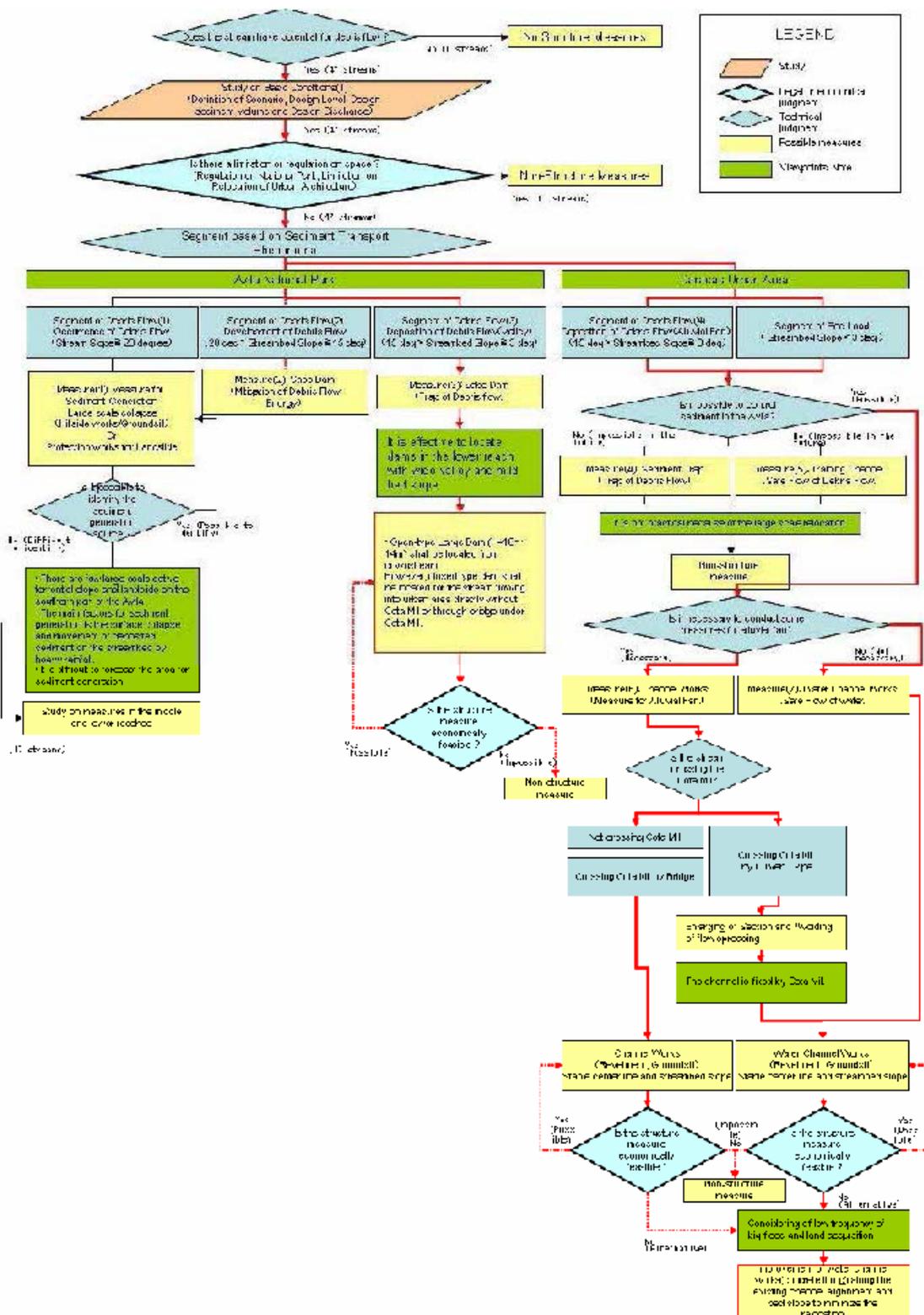
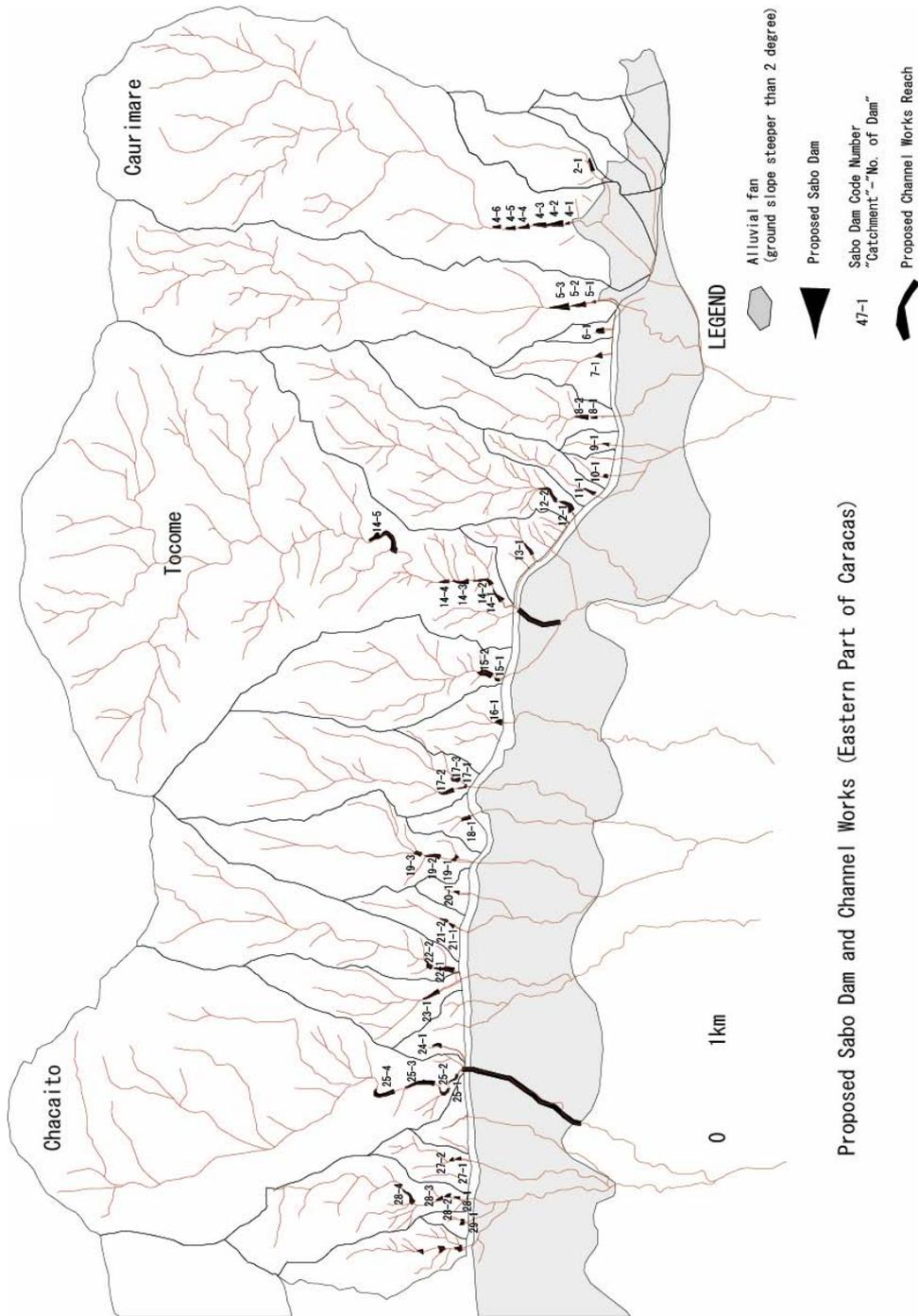


図 4.3.2 構造物対策のフローチャート



Proposed Sabo Dam and Channel Works (Eastern Part of Caracas)

图 4.3.3 (1/2) 砂防堰堤及び流路工位置图