

Remarks : O shows surveyed water level

Fig.2-6 LONGITUDINAL WATER PROFILE OF UNDANG FLOOD

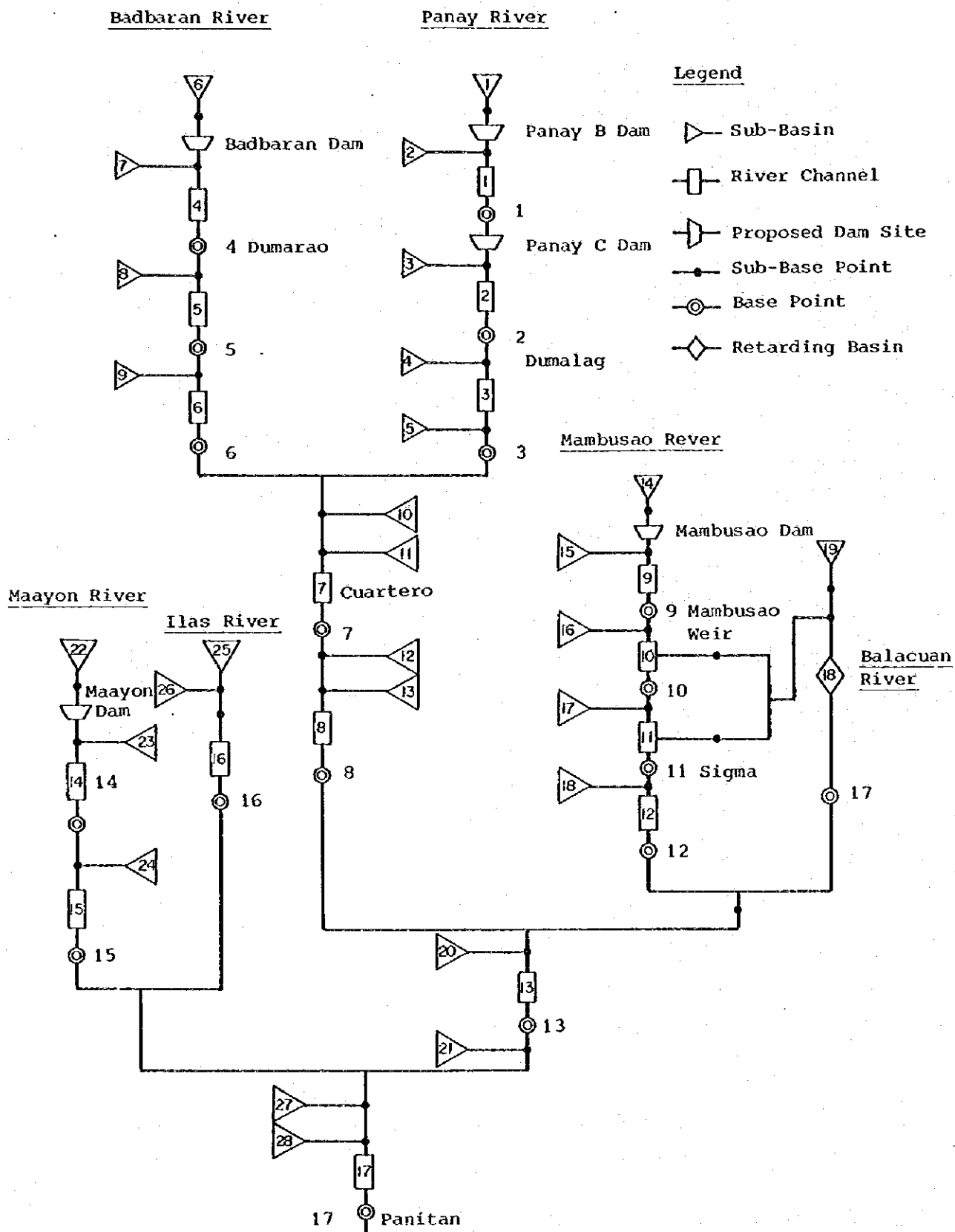


Fig. 2-7 RIVER SYSTEM MODEL

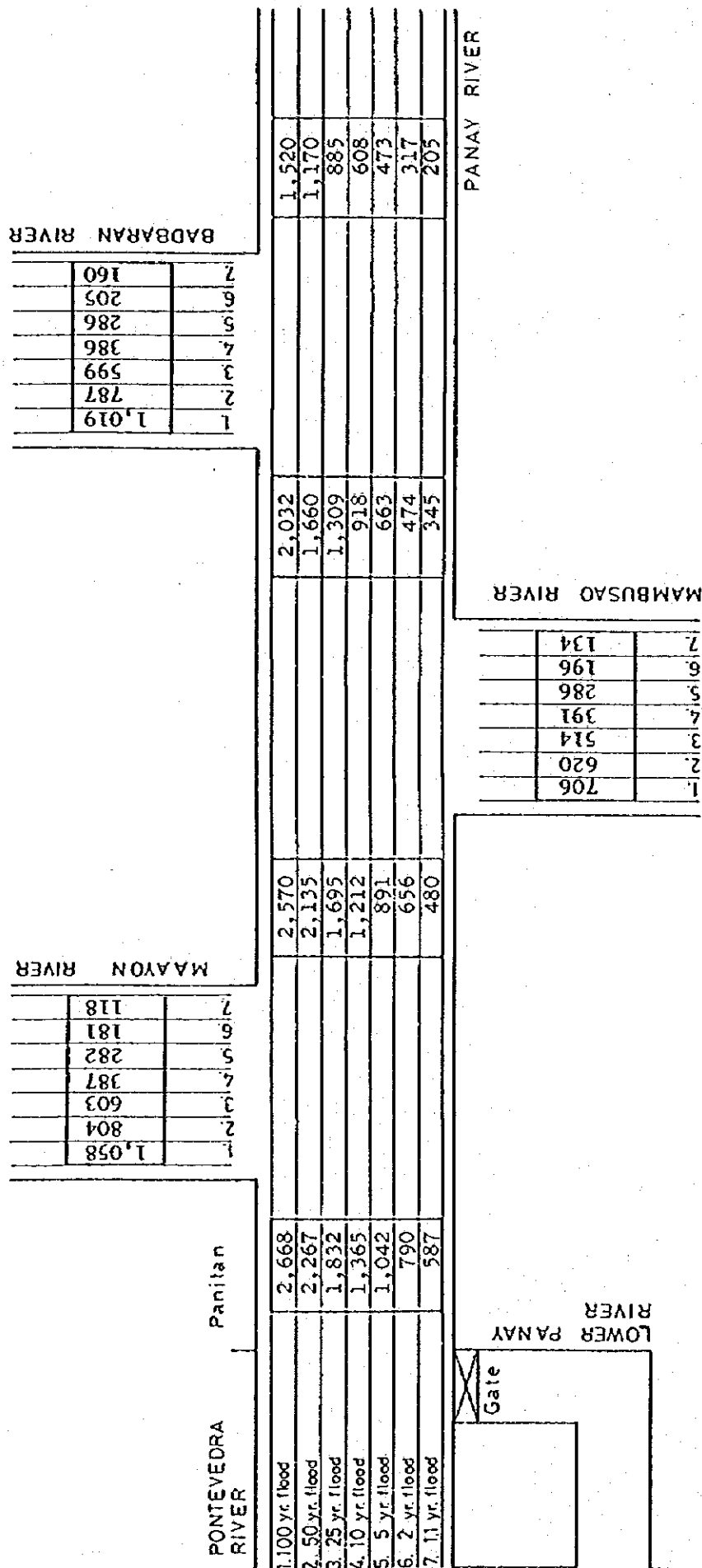
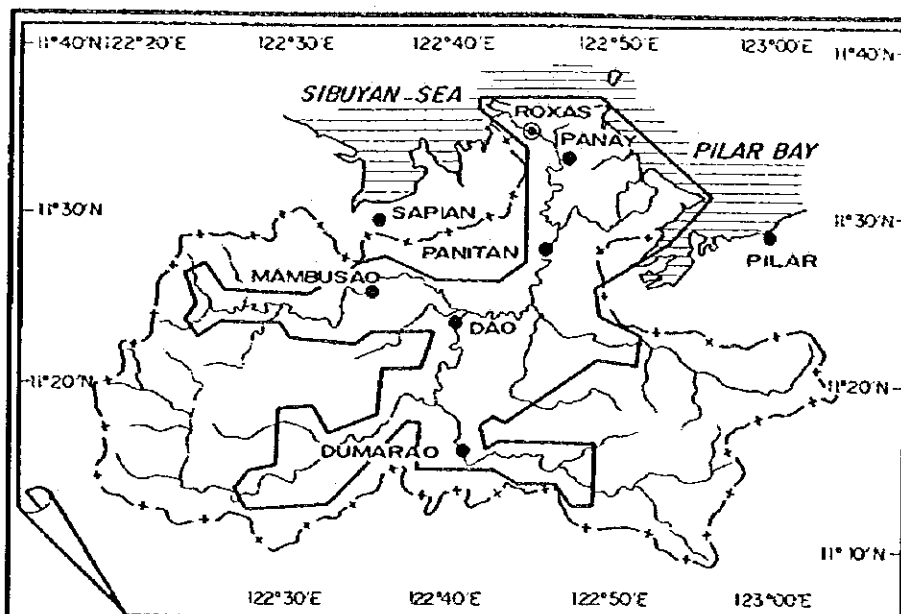


Fig. 2-8 FLOOD FLOW DISTRIBUTION FOR PRESENT RIVER CONDITION
(PROBABILITY OF BASIN RAINFALL AT PANITAN)



KEY MAP

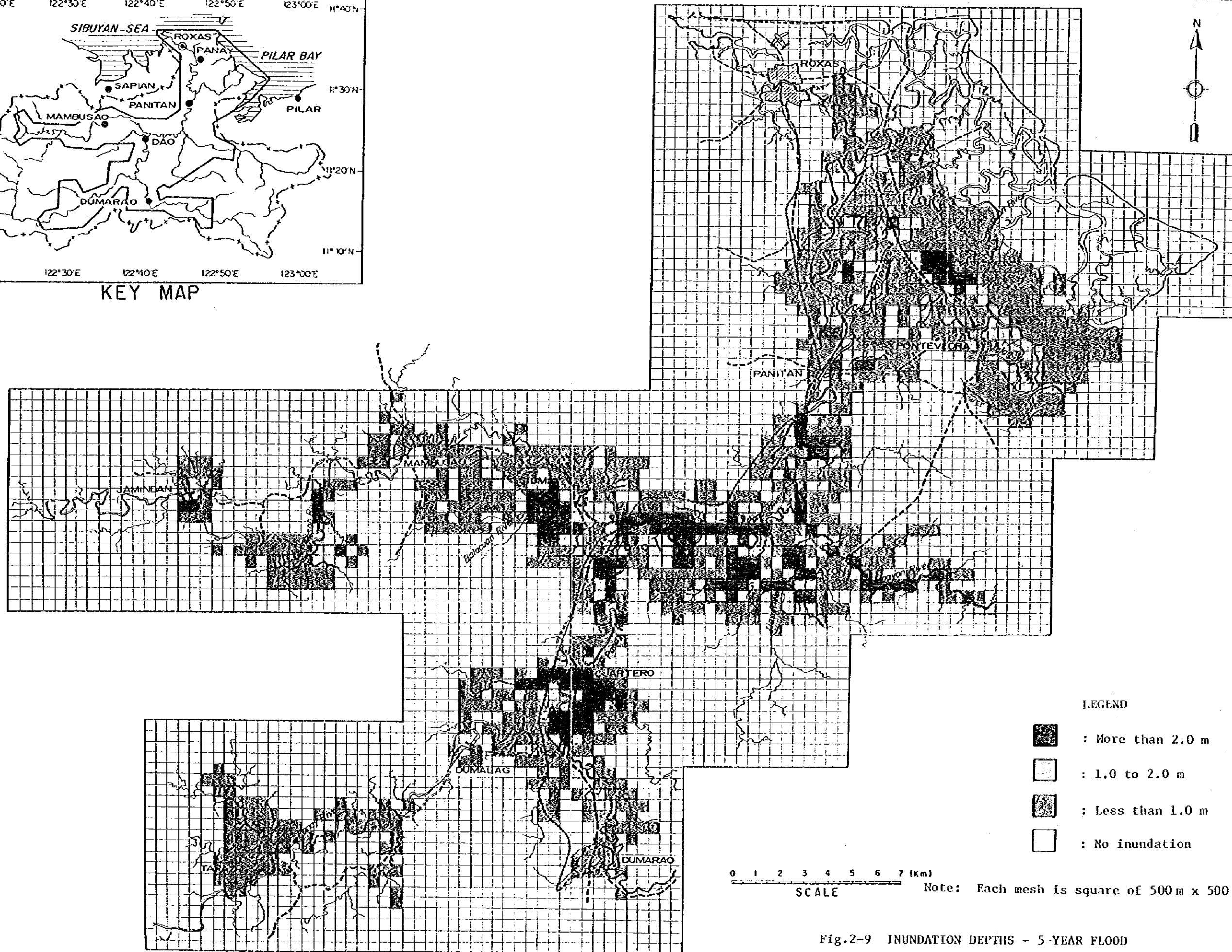
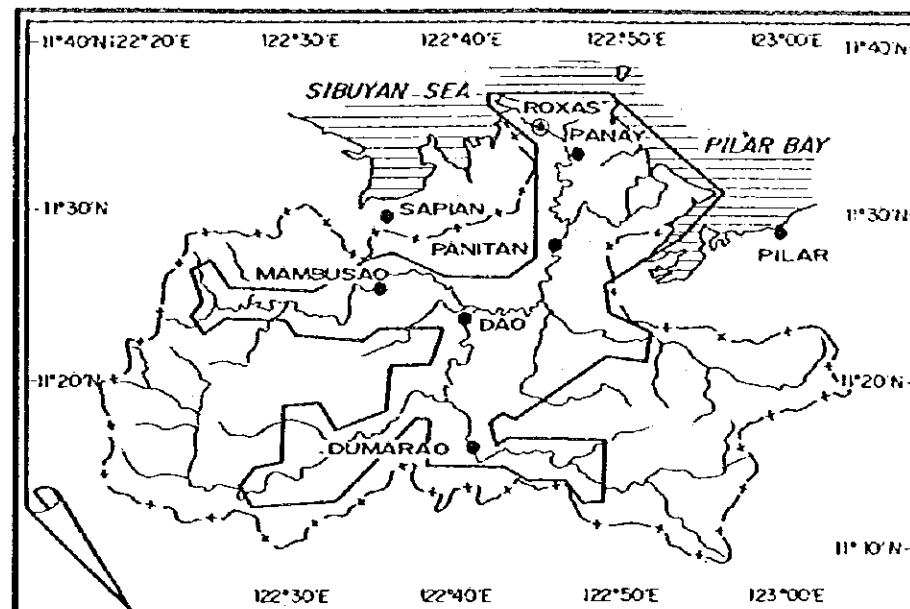
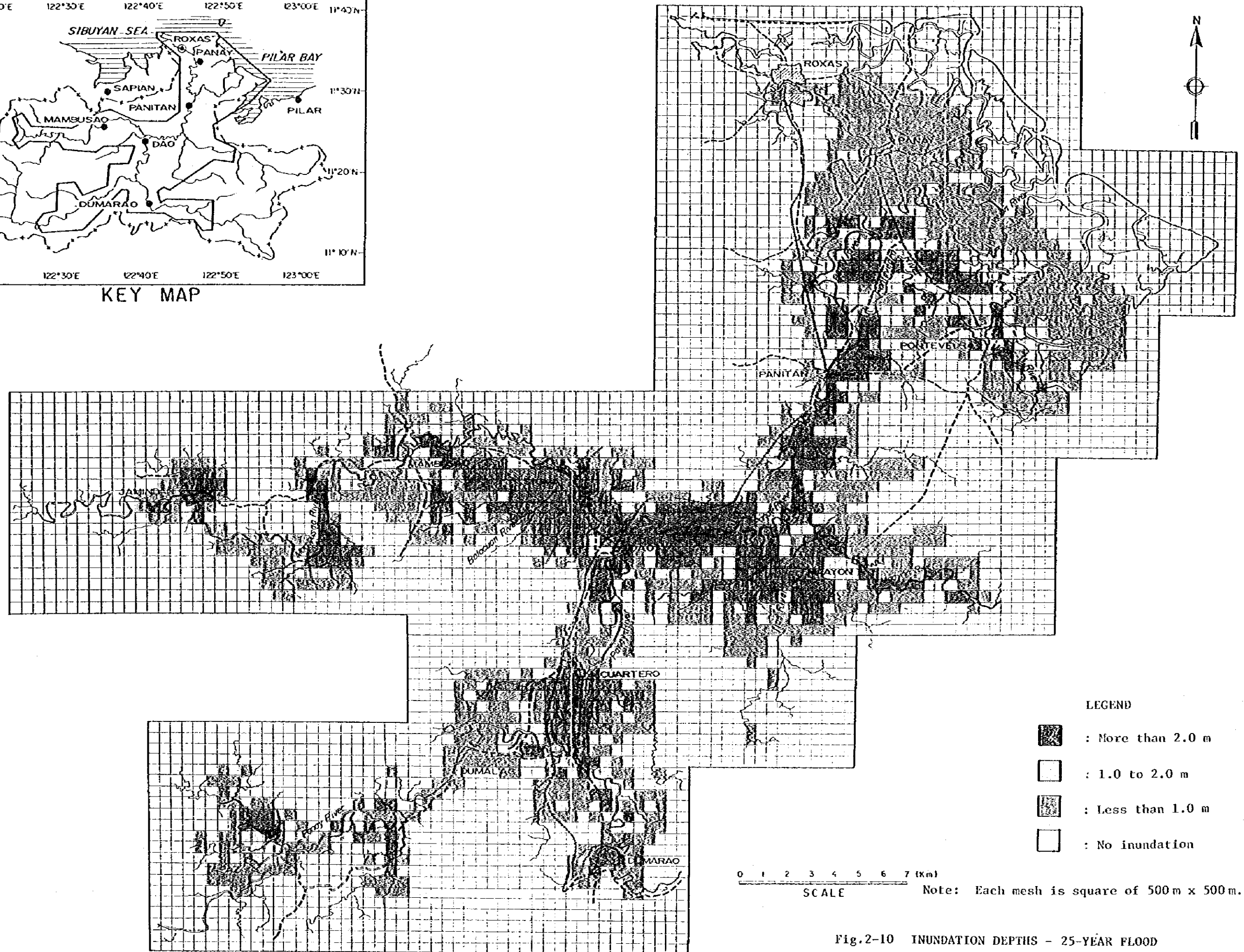






Fig.2-9 INUNDATION DEPTHS - 5-YEAR FLOOD



KEY MAP



LEGEND

-  : More than 2.0 m
-  : 1.0 to 2.0 m
-  : Less than 1.0 m
-  : No inundation

0 1 2 3 4 5 6 7 (km)

SCALE

Note: Each mesh is square of 500 m x 500 m.

Fig.2-10 INUNDATION DEPTHS - 25-YEAR FLOOD

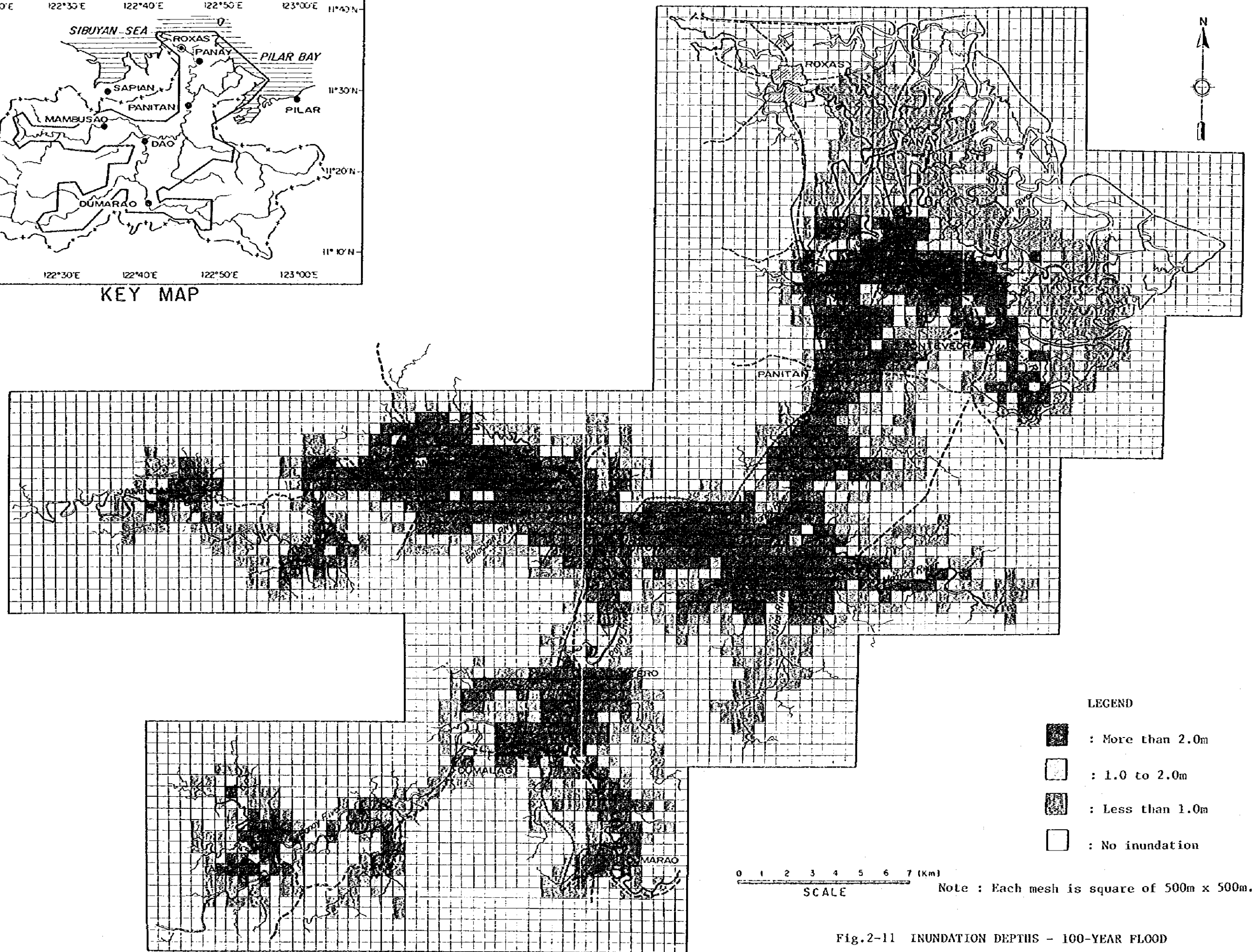
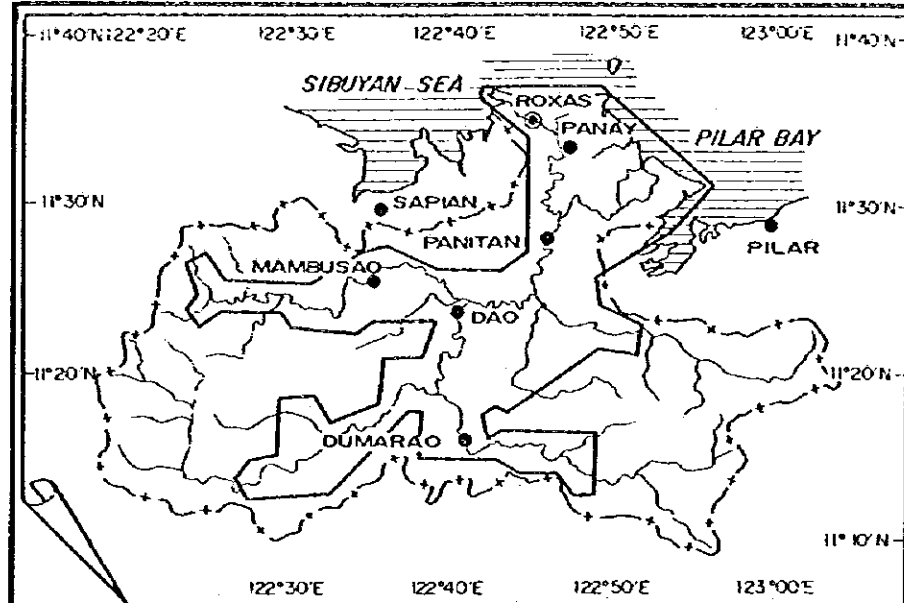
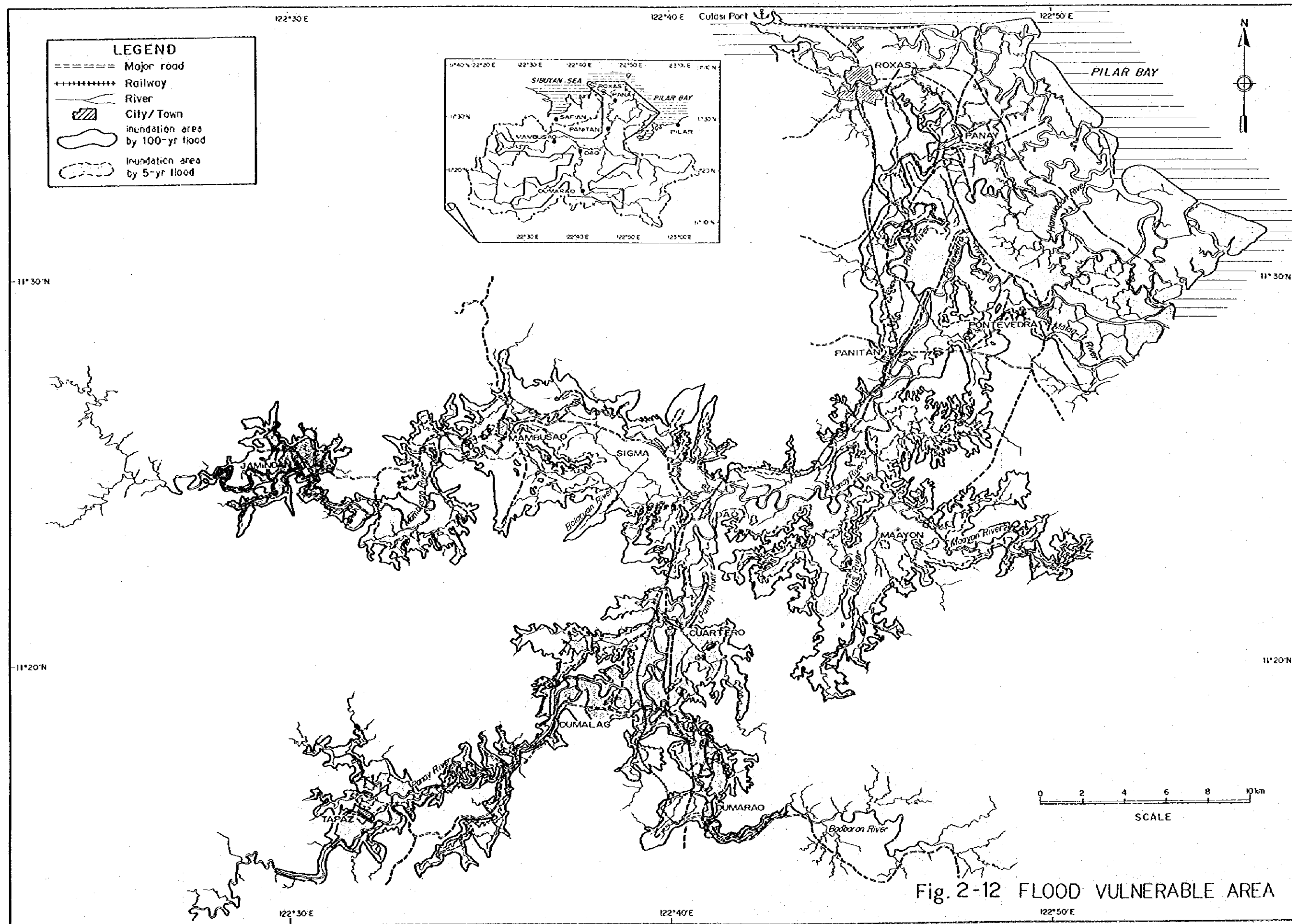


Fig.2-11 INUNDATION DEPTHS - 100-YEAR FLOOD



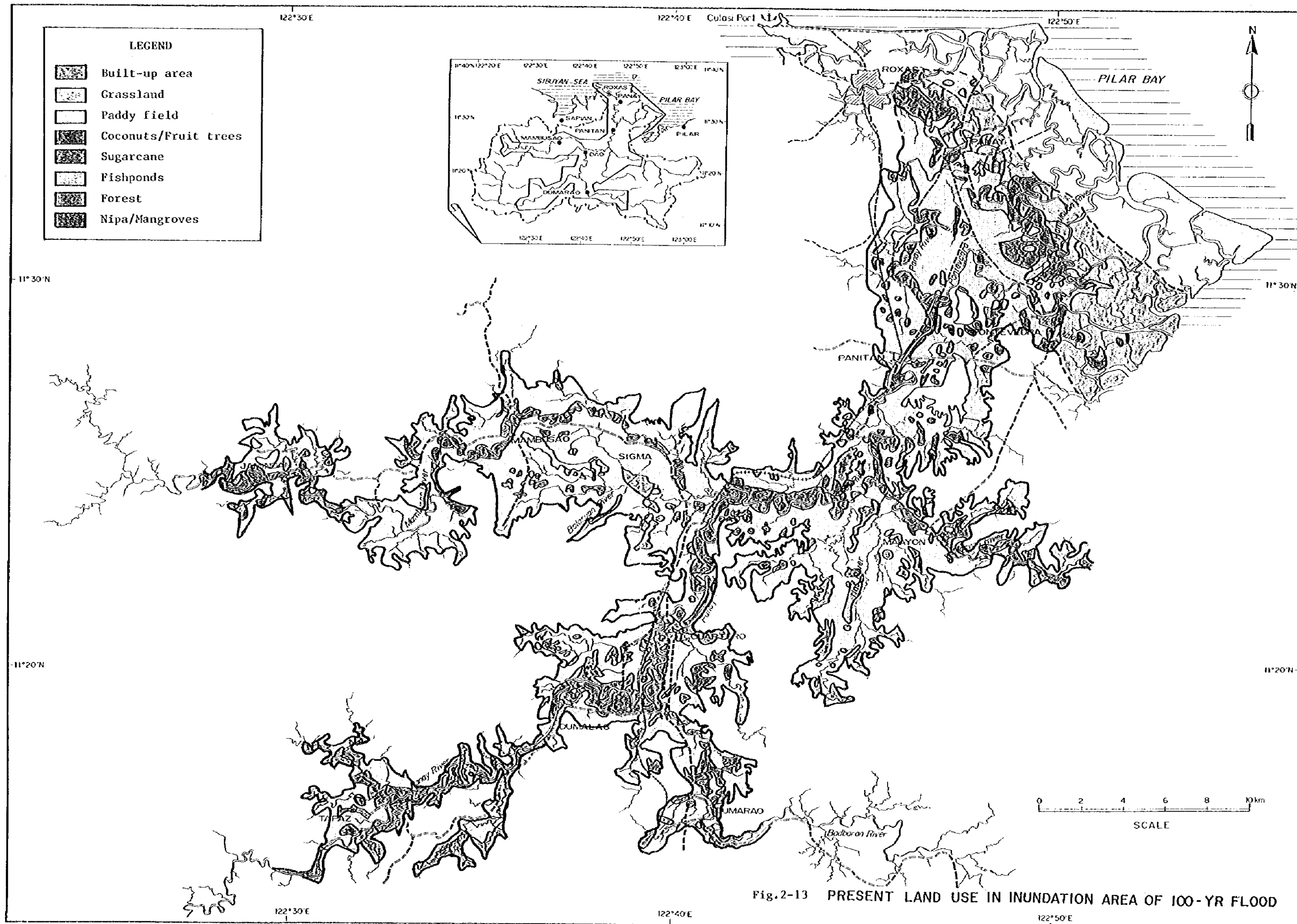
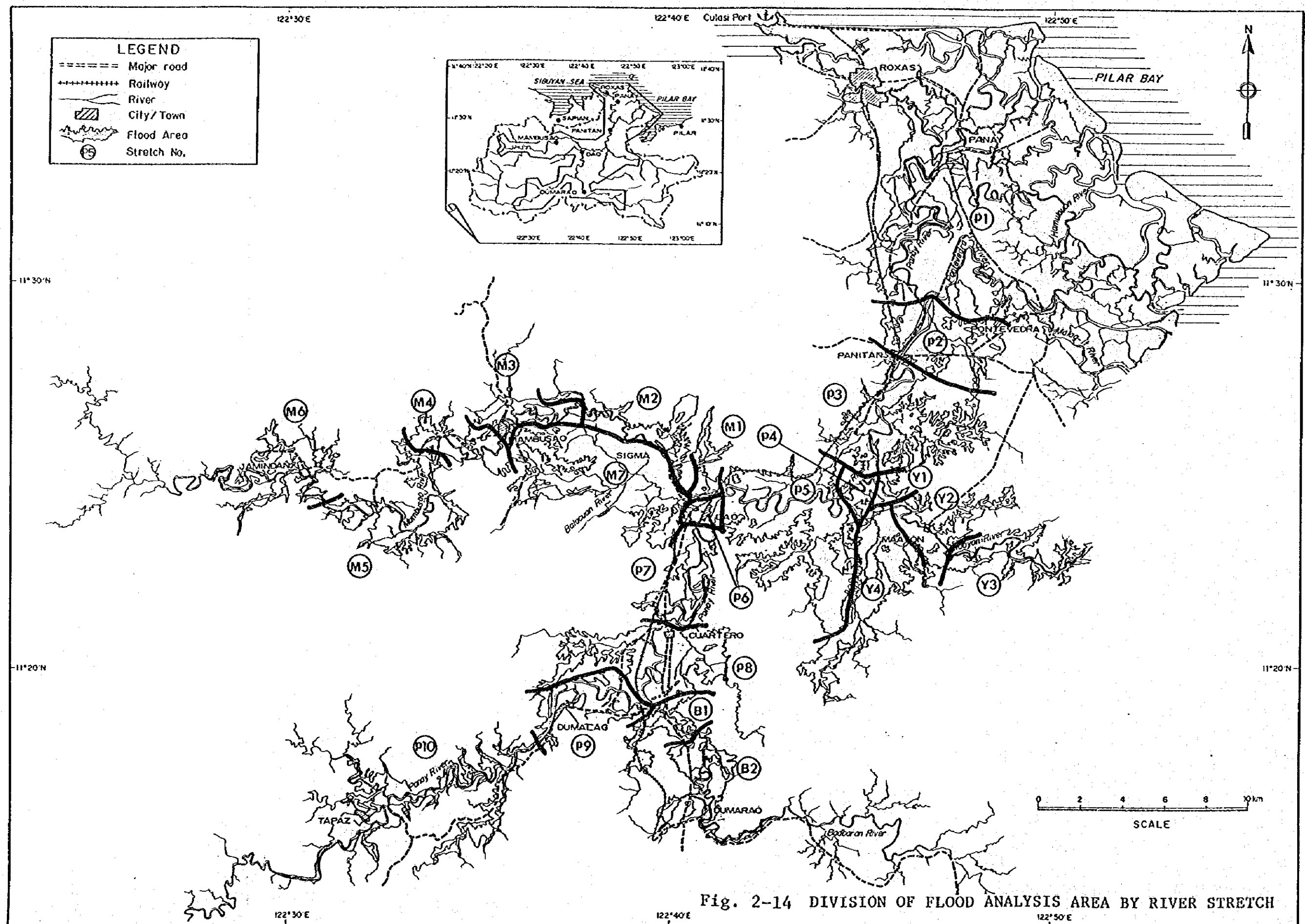
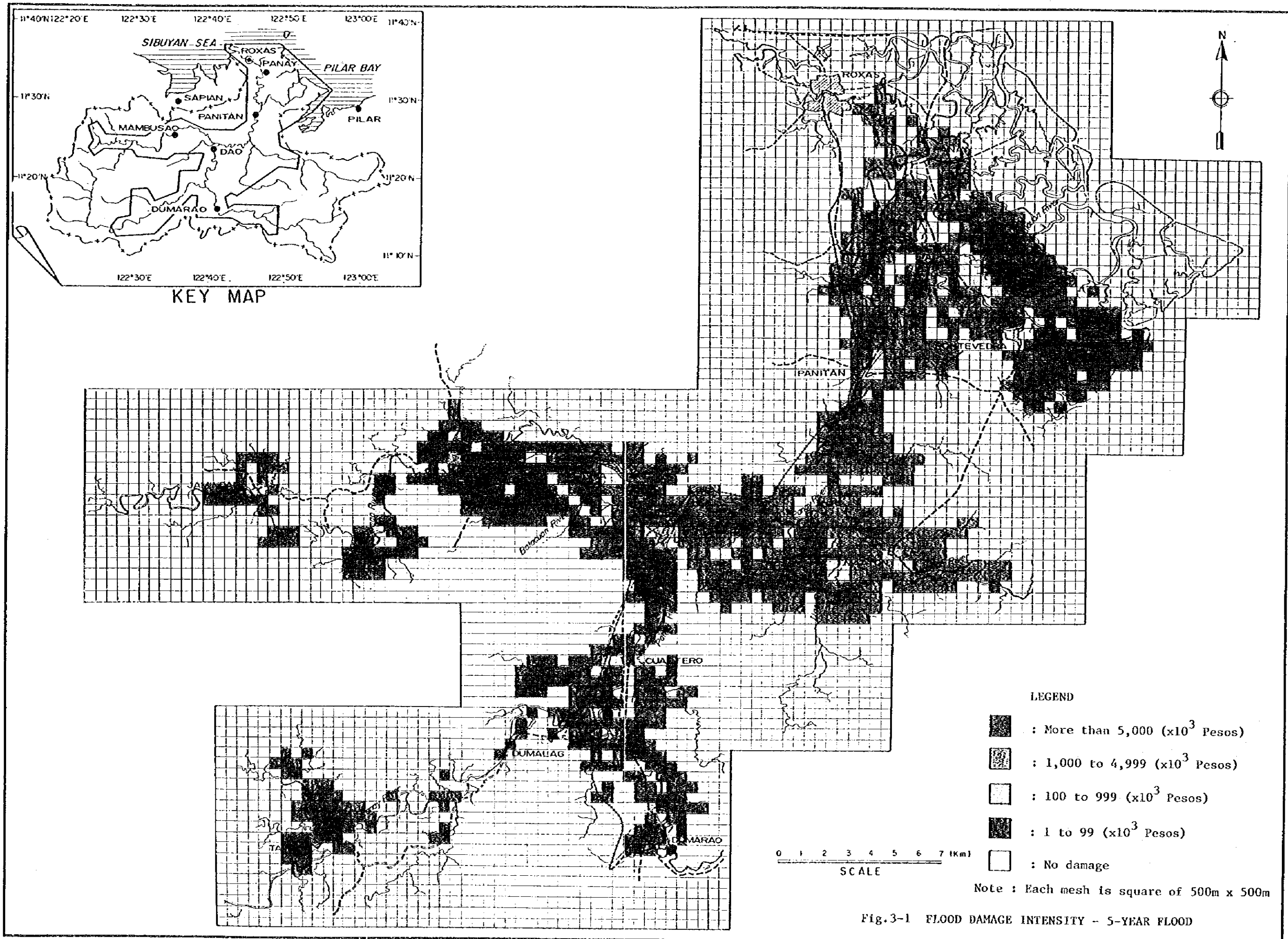
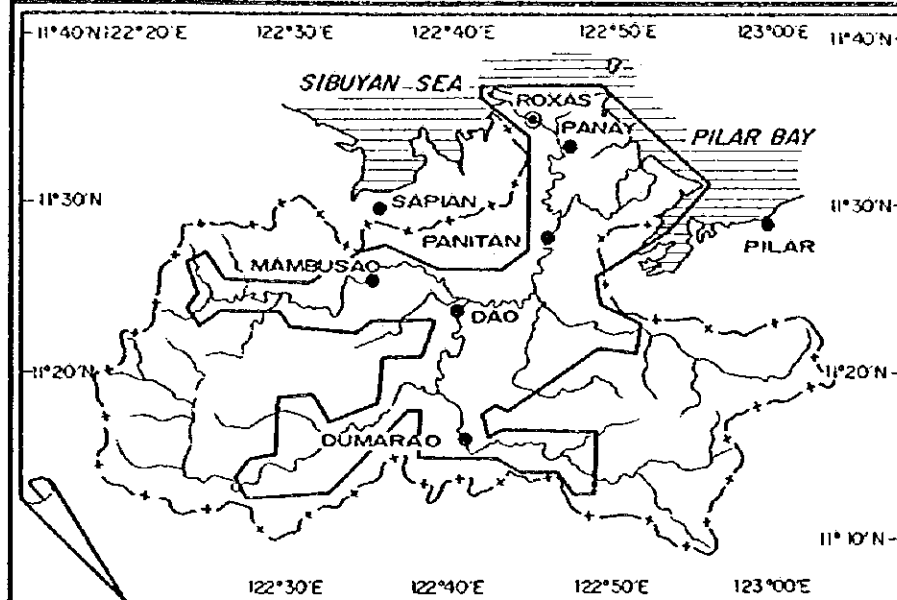


Fig.2-13 PRESENT LAND USE IN INUNDATION AREA OF 100-YR FLOOD







KEY MAP

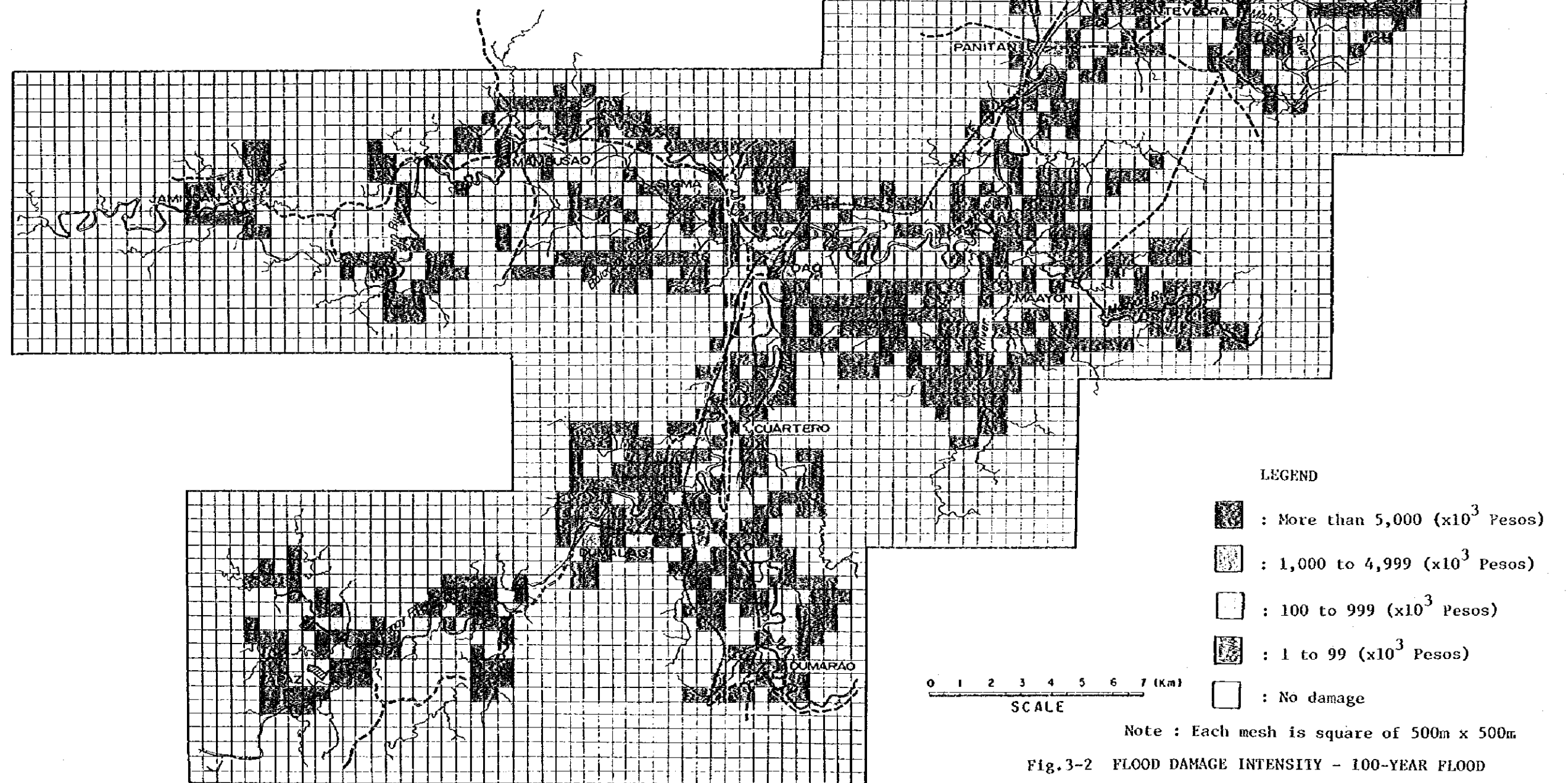
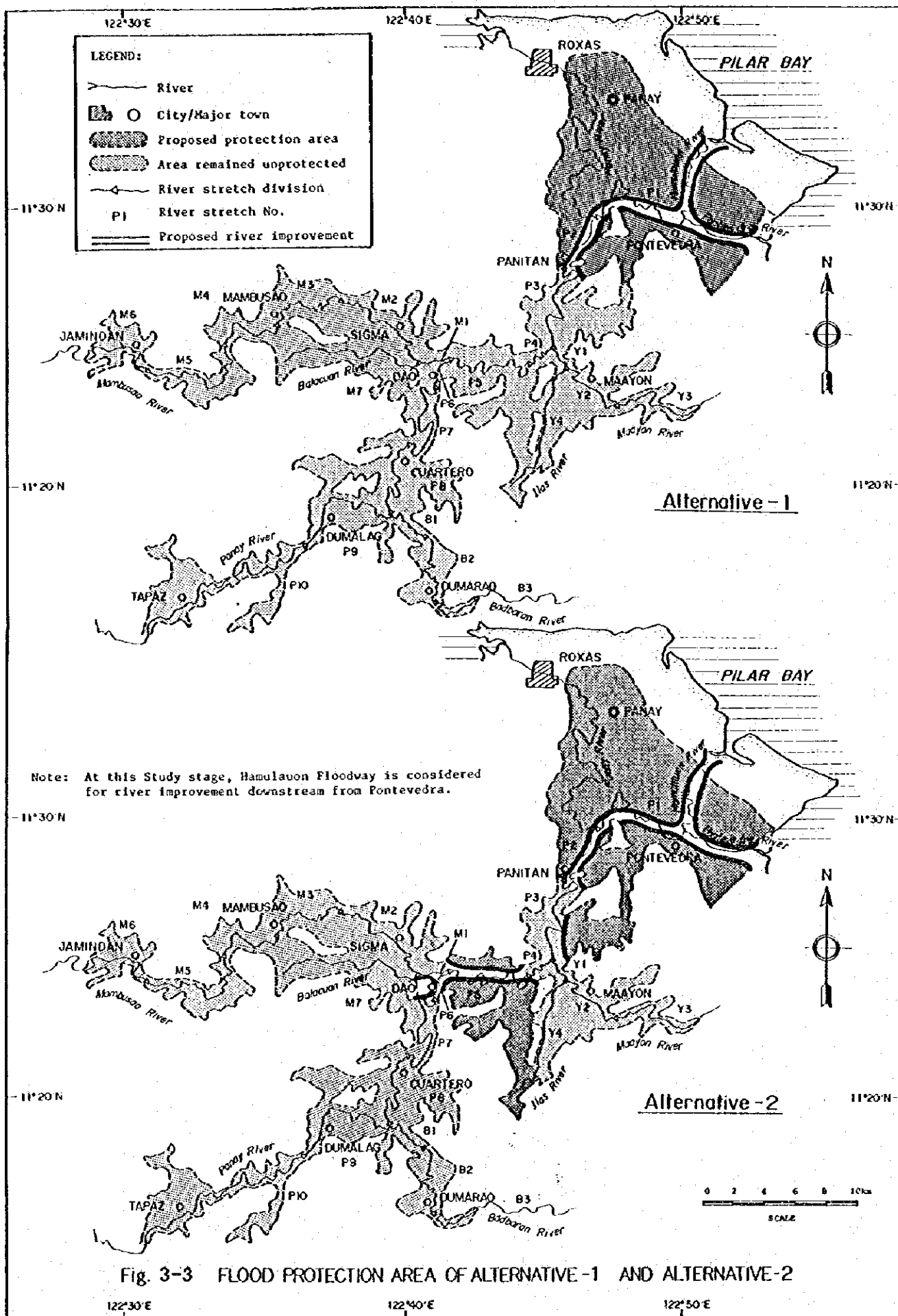
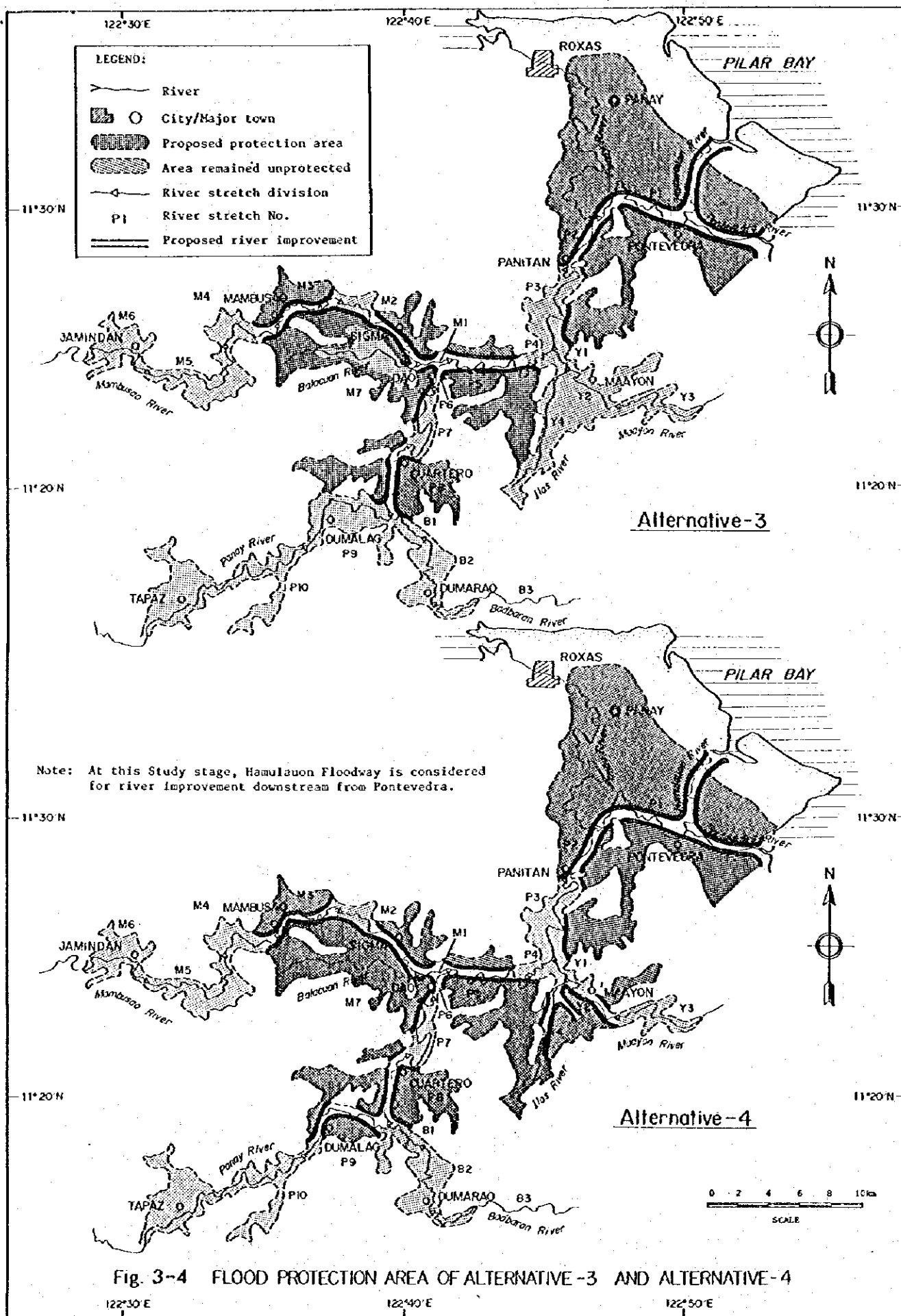
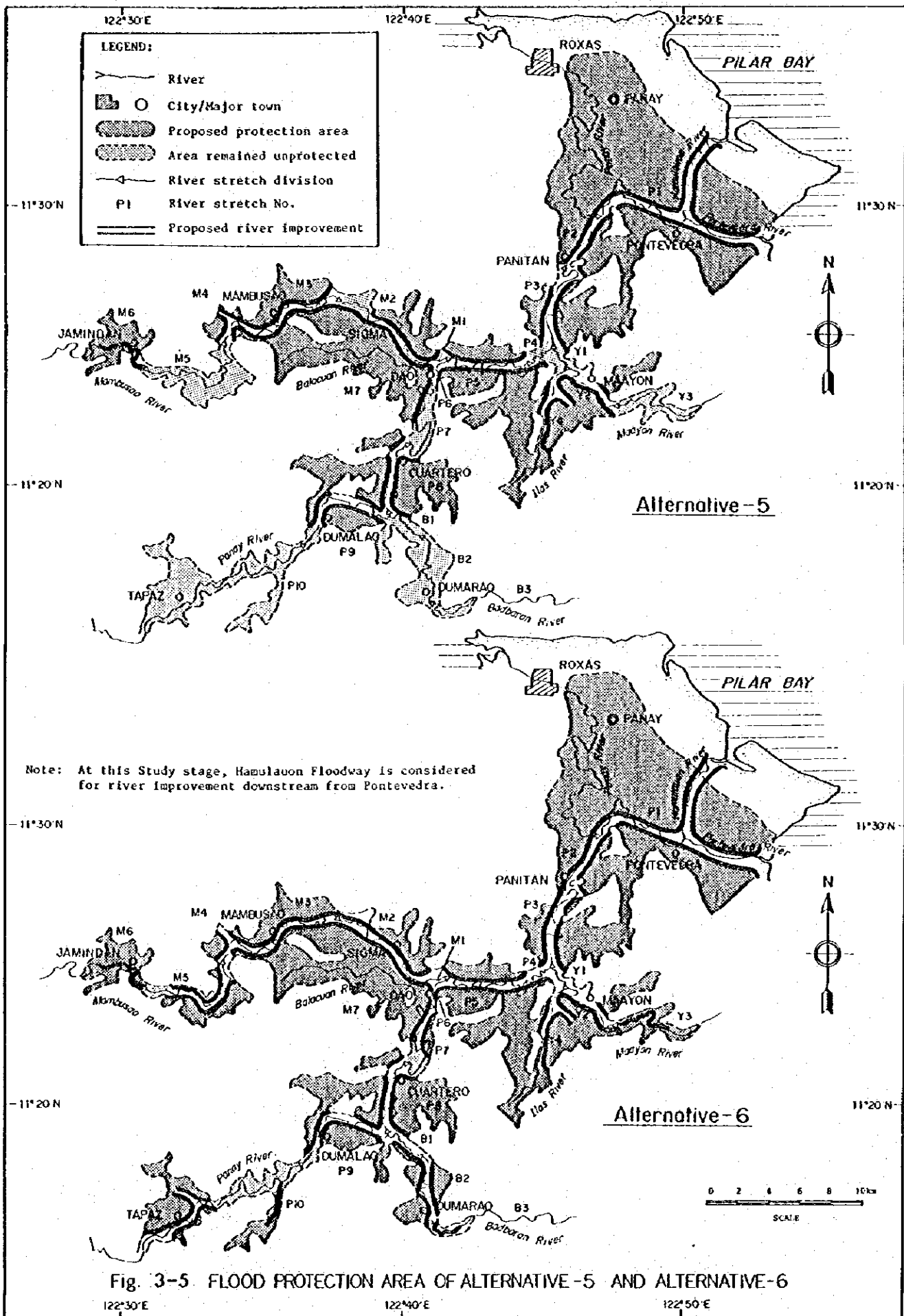
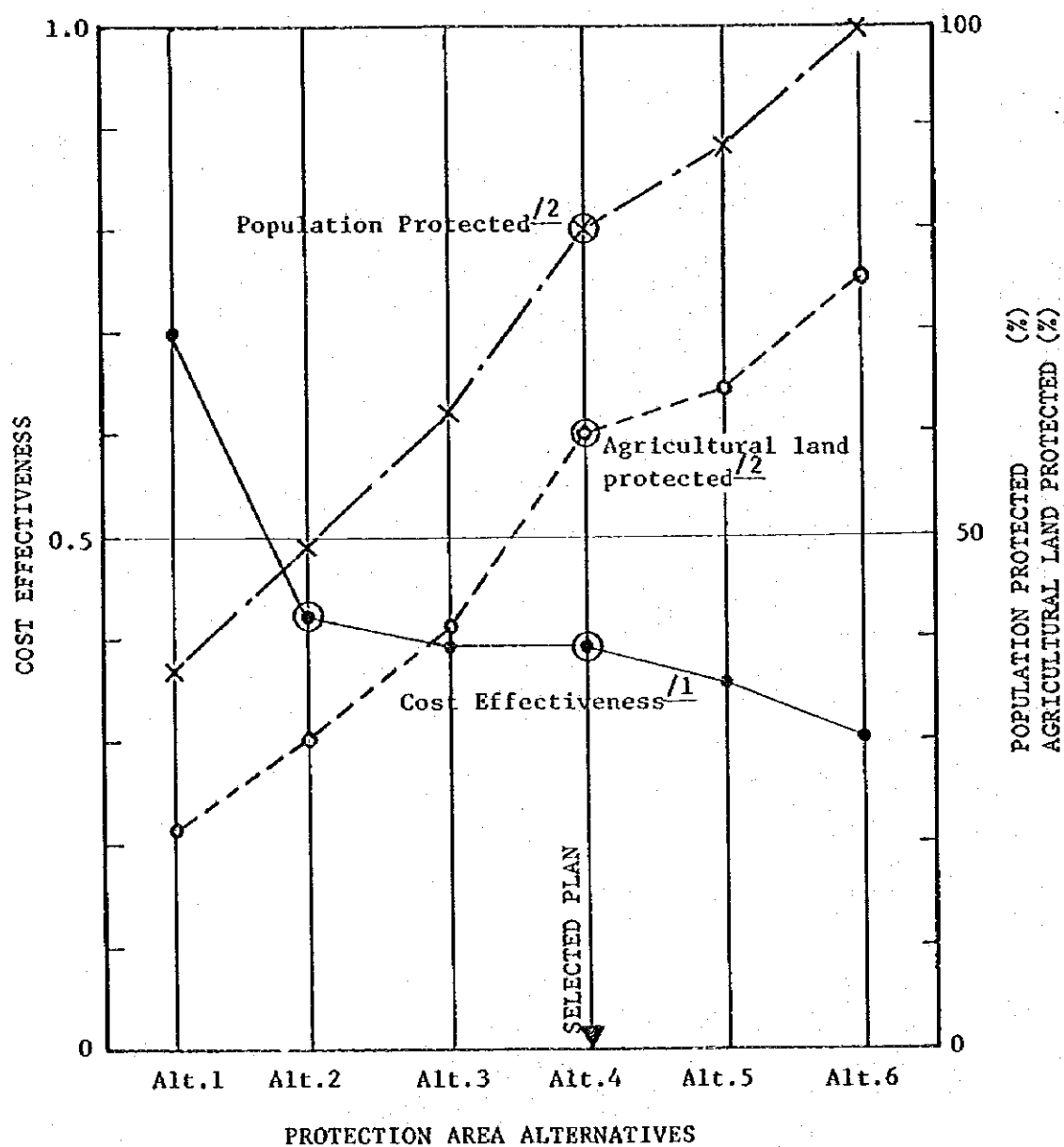


Fig.3-2 FLOOD DAMAGE INTENSITY - 100-YEAR FLOOD









- Notes: /1 Expressed in terms of benefit-cost ratio (present worth of damage reduction/present worth of cost)
- /2 % to total population and agricultural land area in flood prone area
- Points where a notable change in index value is seen.

Fig. 3-6 COMPARISON OF FLOOD PROTECTION AREA ALTERNATIVES

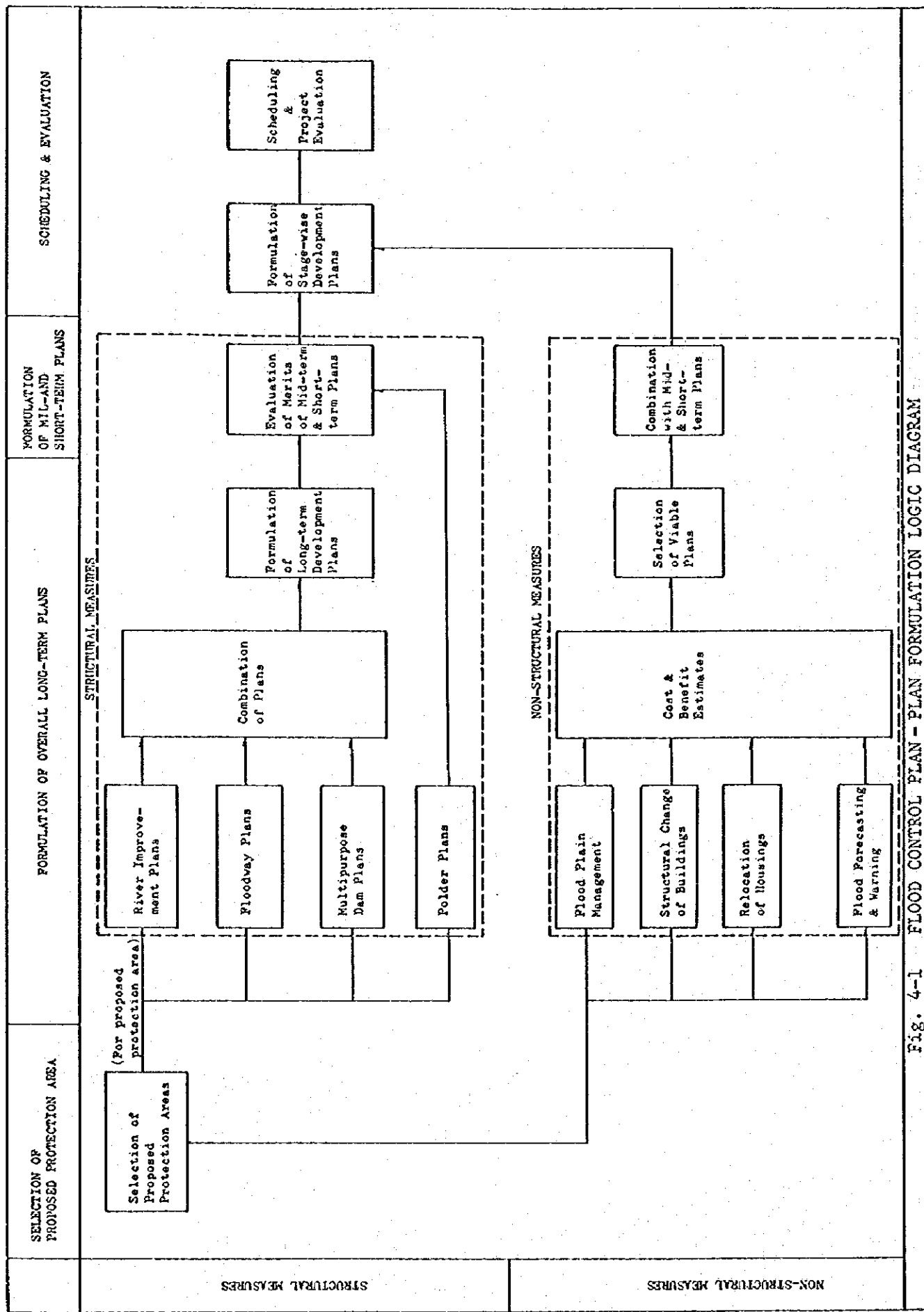
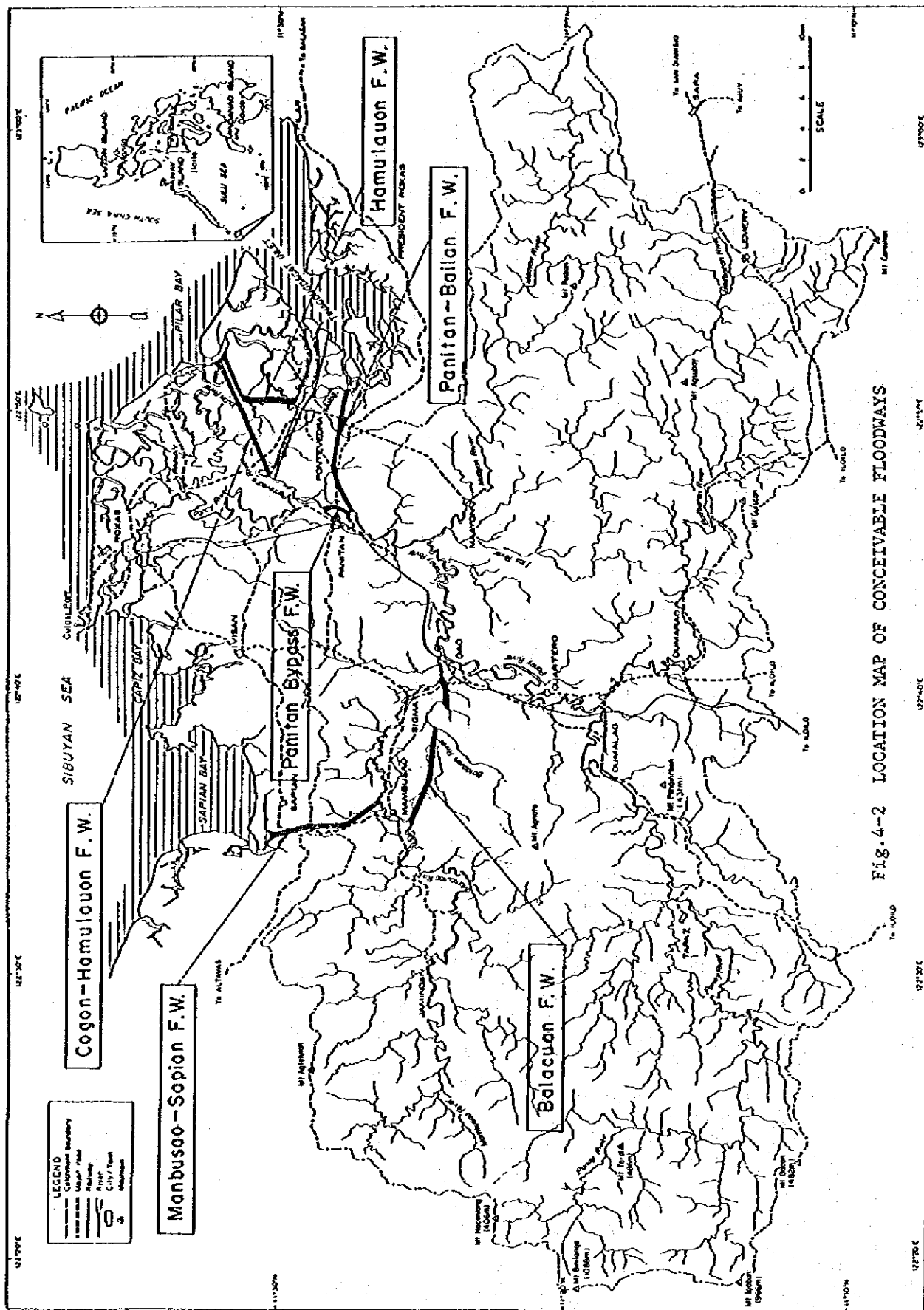
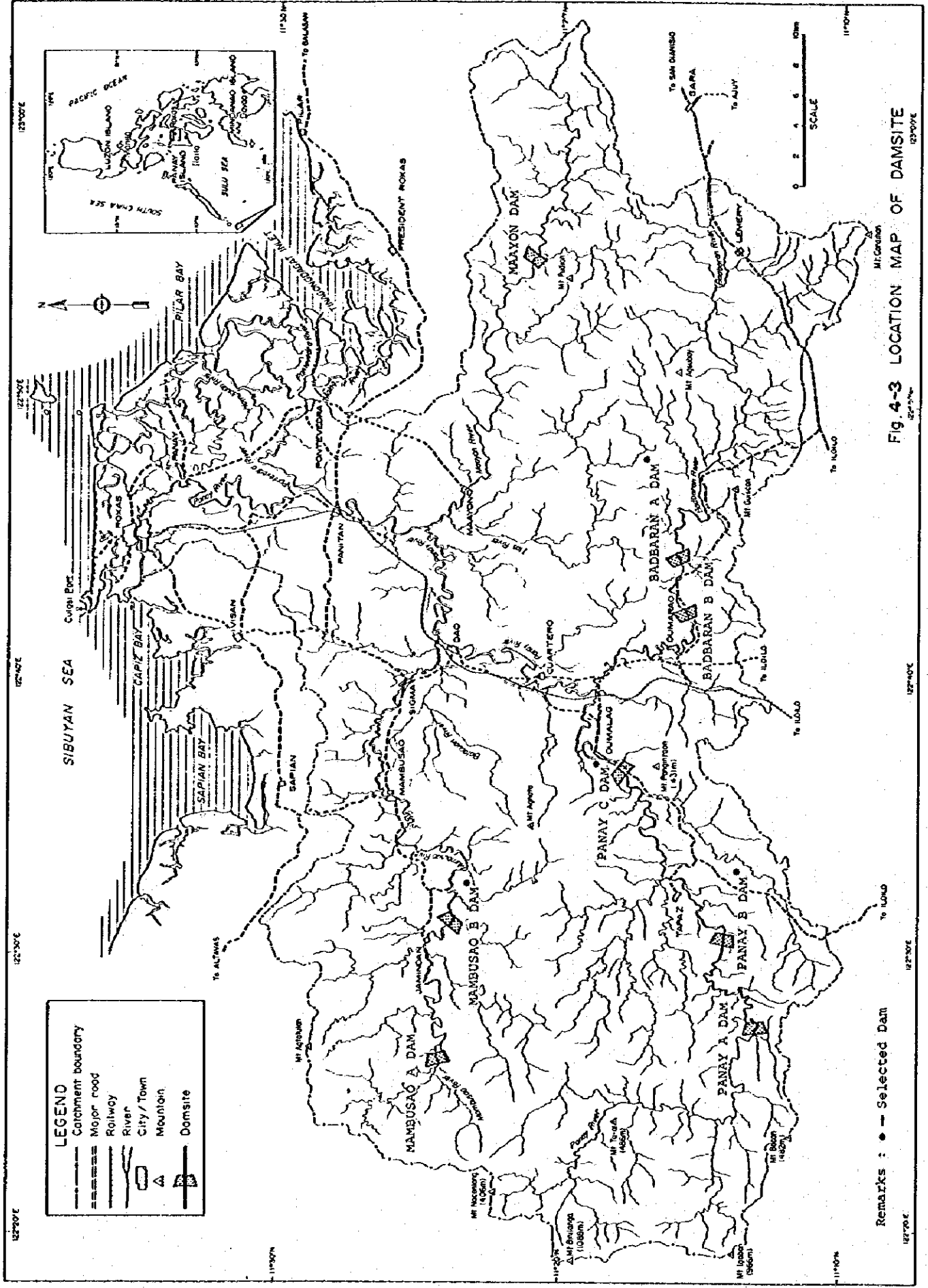
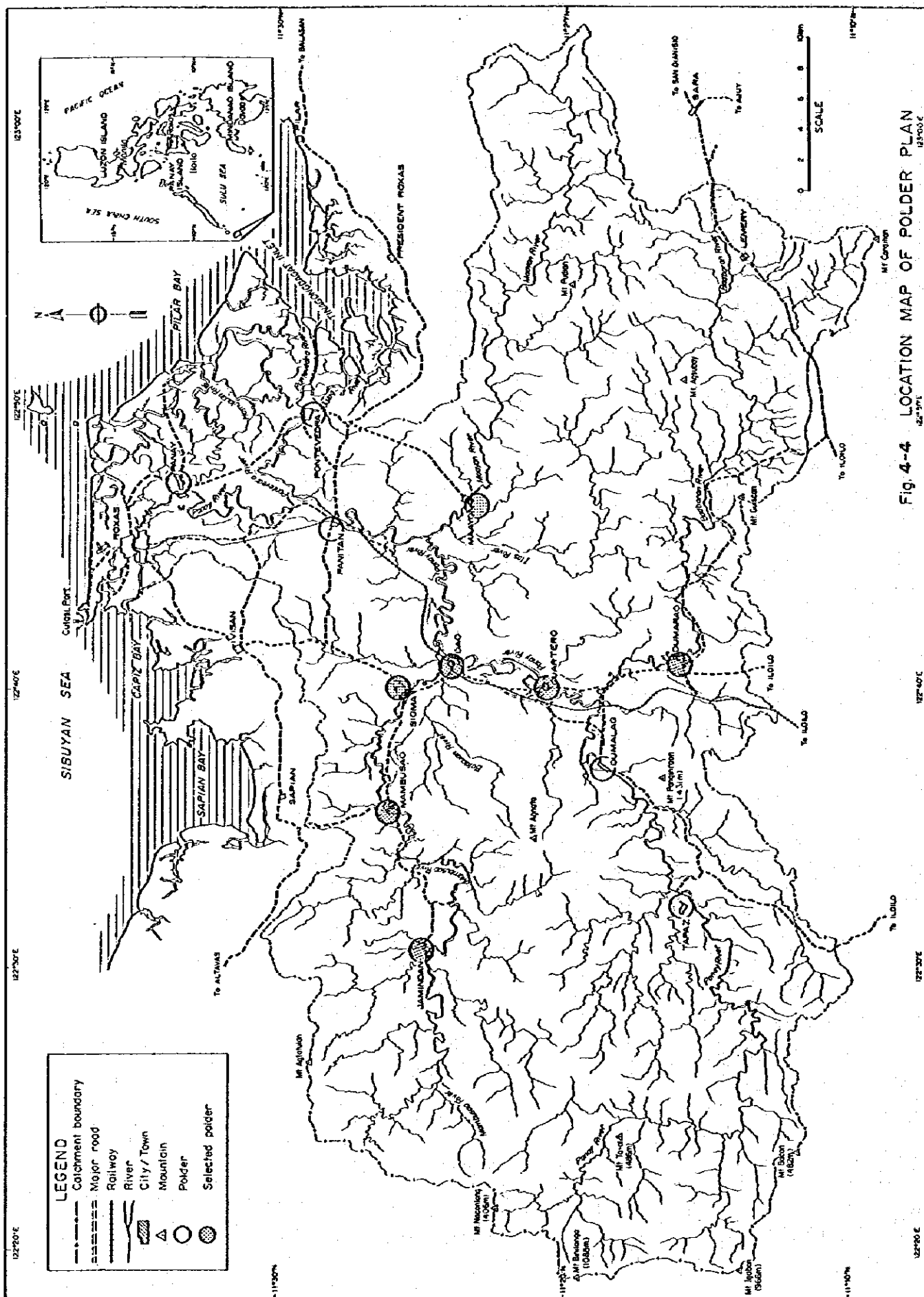
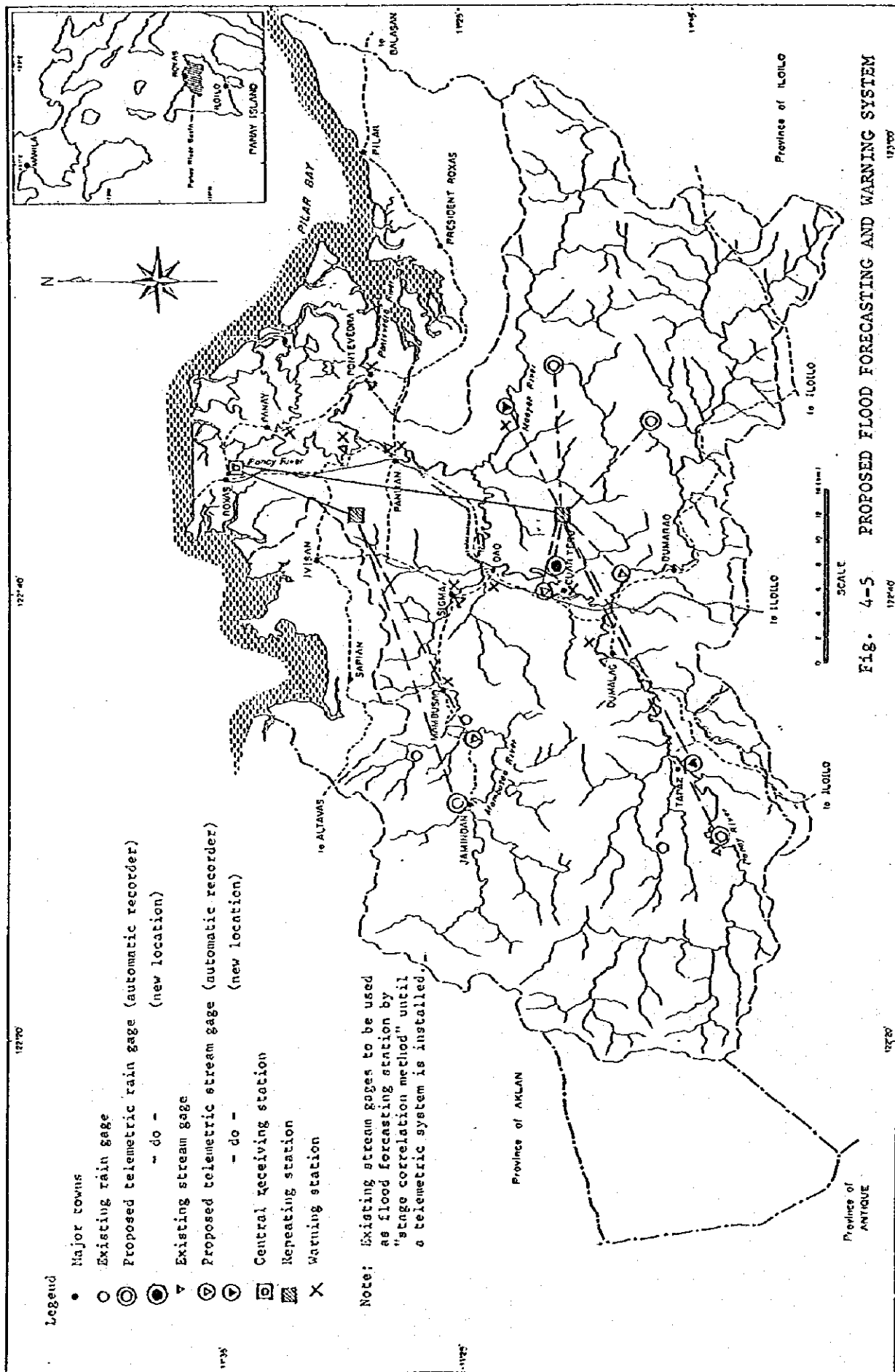


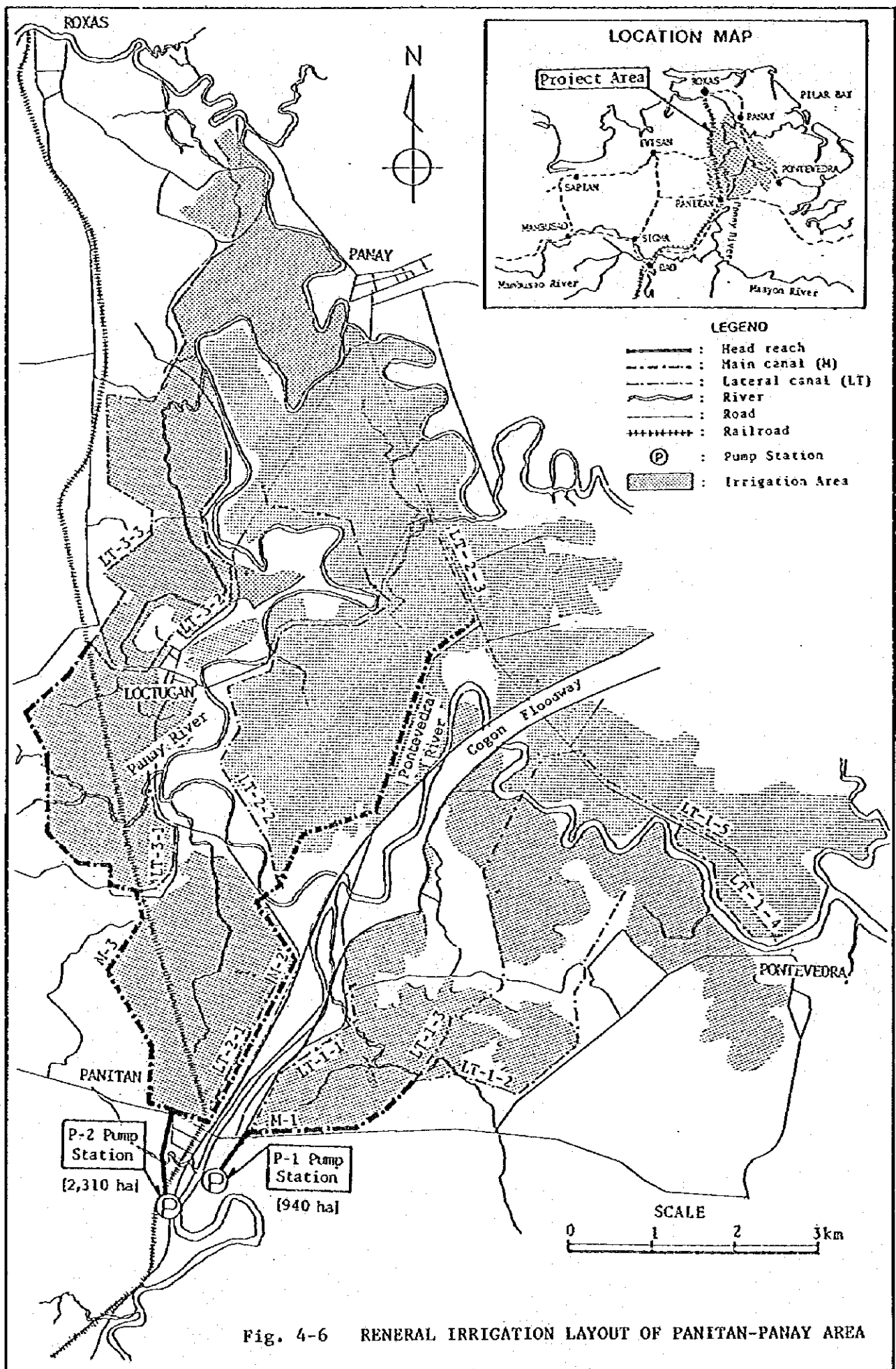
Fig. 4-1 FLOOD CONTROL PLAN - PLAN FORMULATION LOGIC DIAGRAM

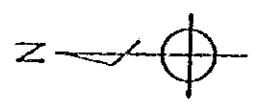
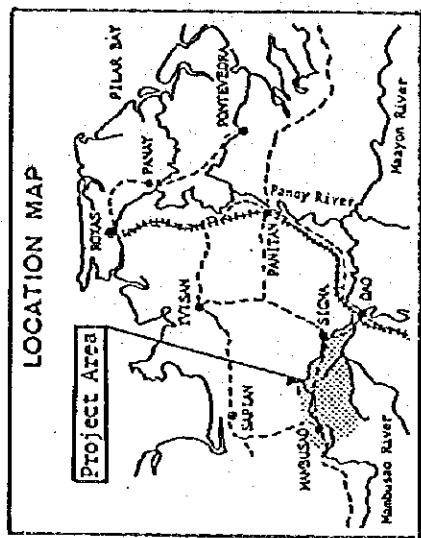












LEGEND

- : Existing Main Canal (MC)
- - - : Existing Lateral Canal (LT)
- - - : New Lateral Canal (LT)
- ~~~~~ : River
- ==== : Road
- +++++ : Railroad
- [Hatched Box] : Existing Irrigation Area
- [Dotted Box] : Extension Irrigation Area

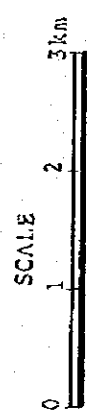
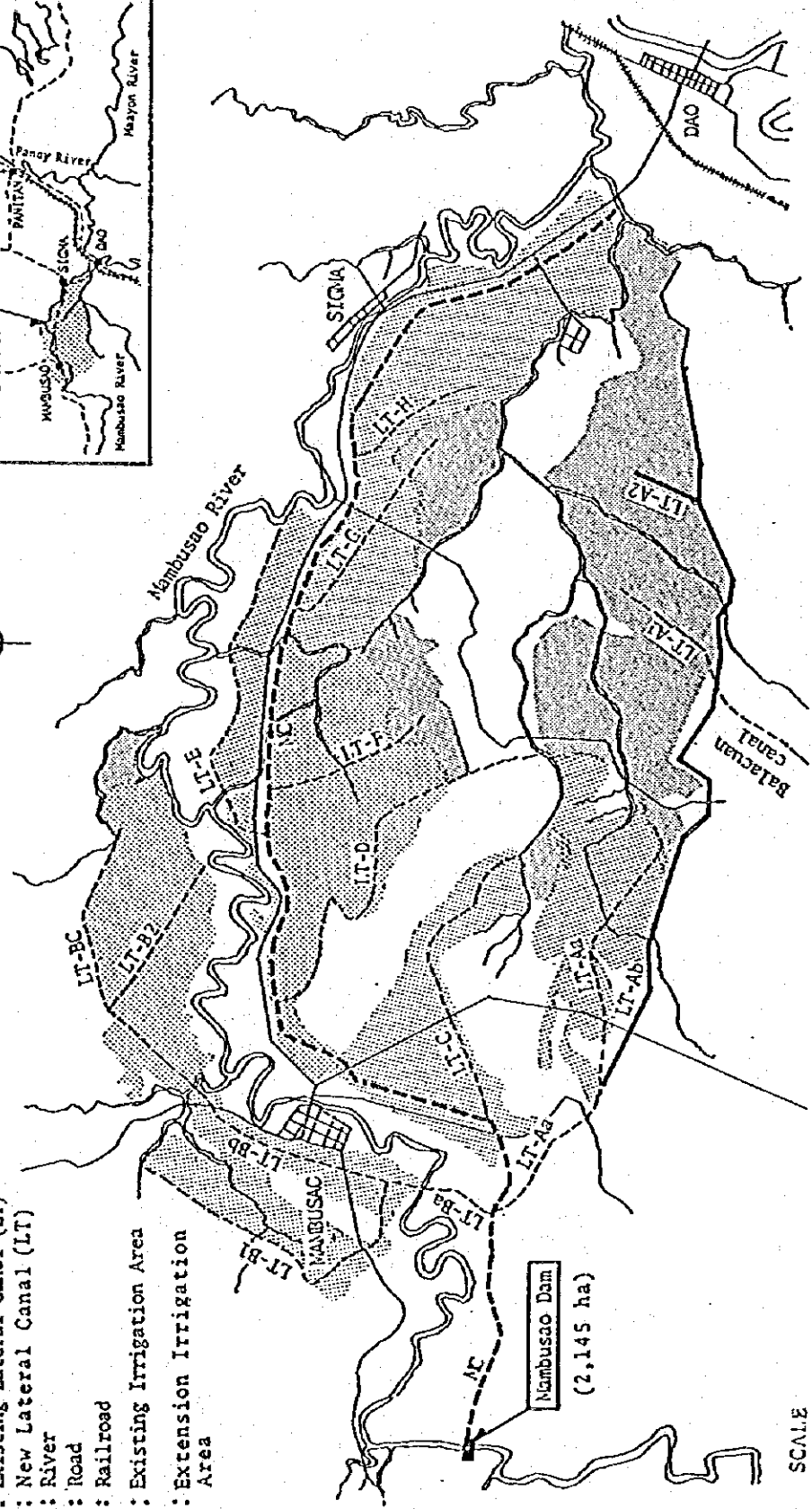
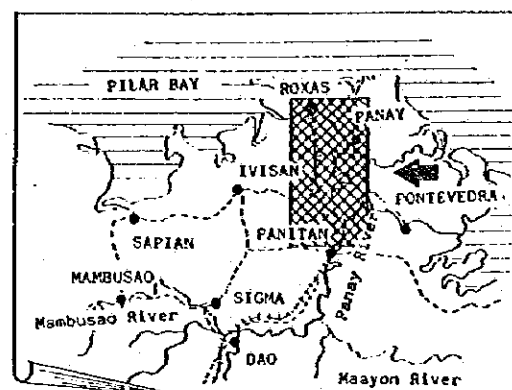
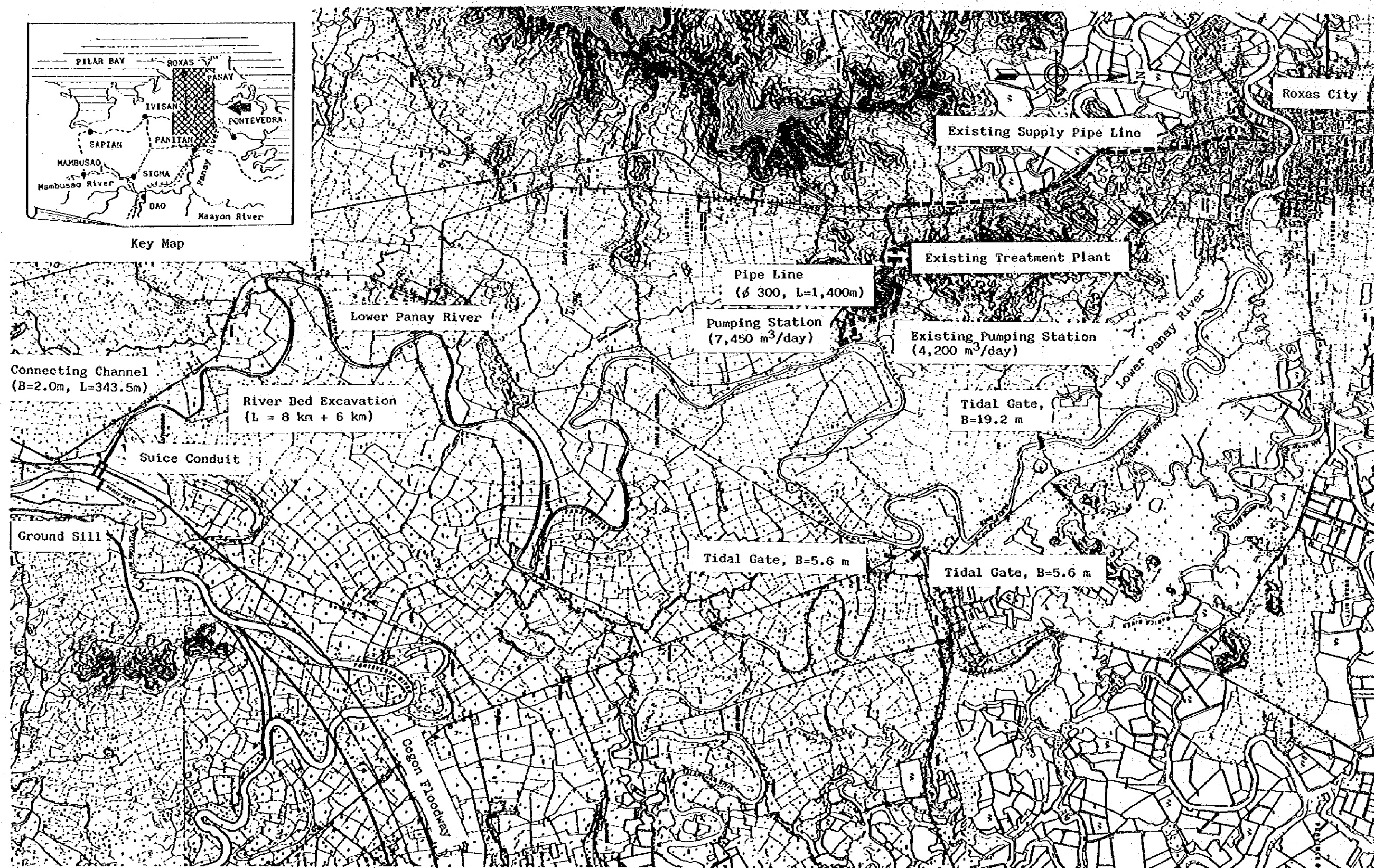


Fig. 4-7 GENERAL IRRIGATION LAYOUT OF MAMBUSAO AREA



Key Map



Scale 0 1 2 km

Fig. 4-8 GENERAL PLAN OF ROX-WD WATER SUPPLY PROJECT

Interconnection with Negros
Power transfer through Submarine cable (AC130KV) becomes possible

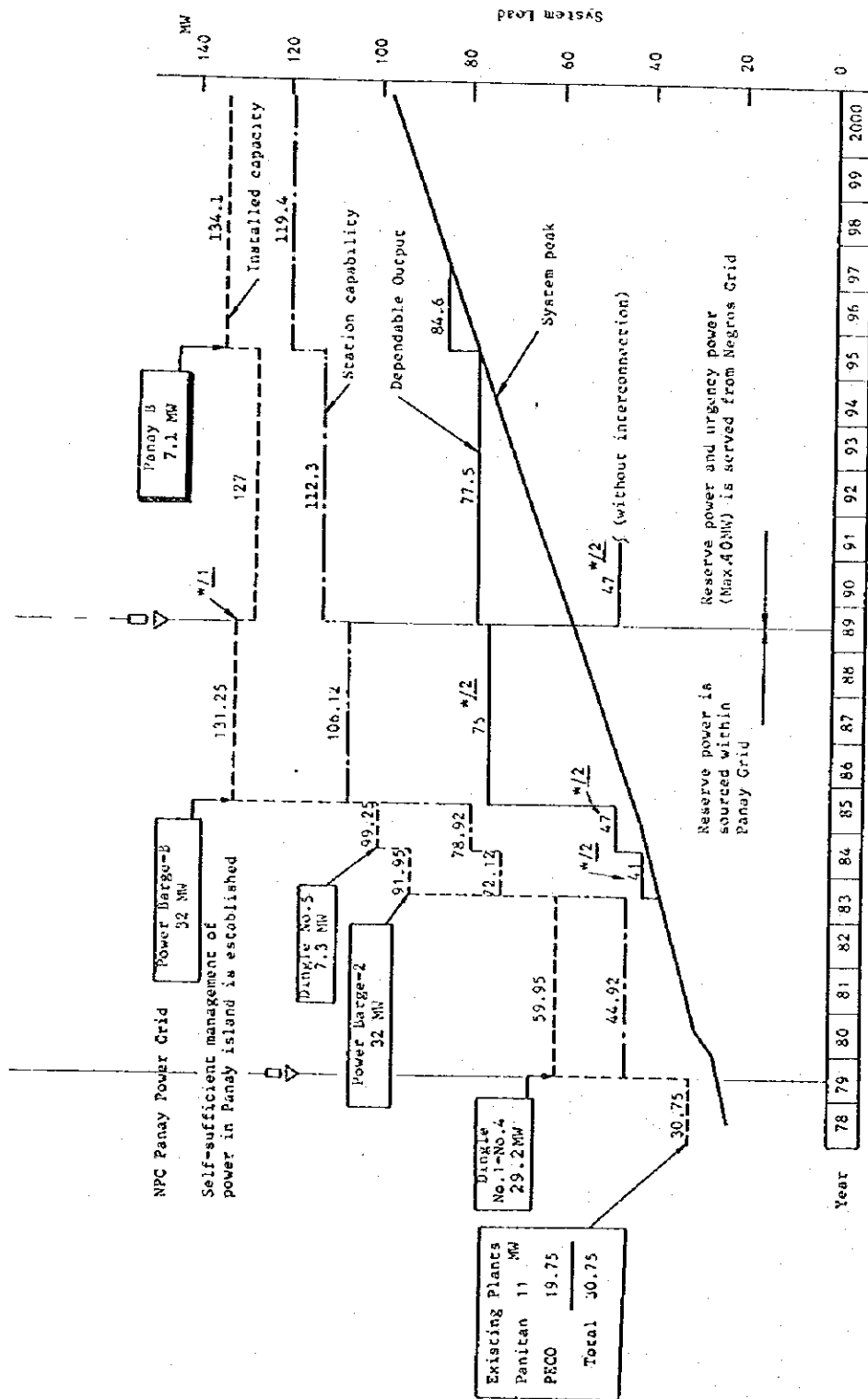
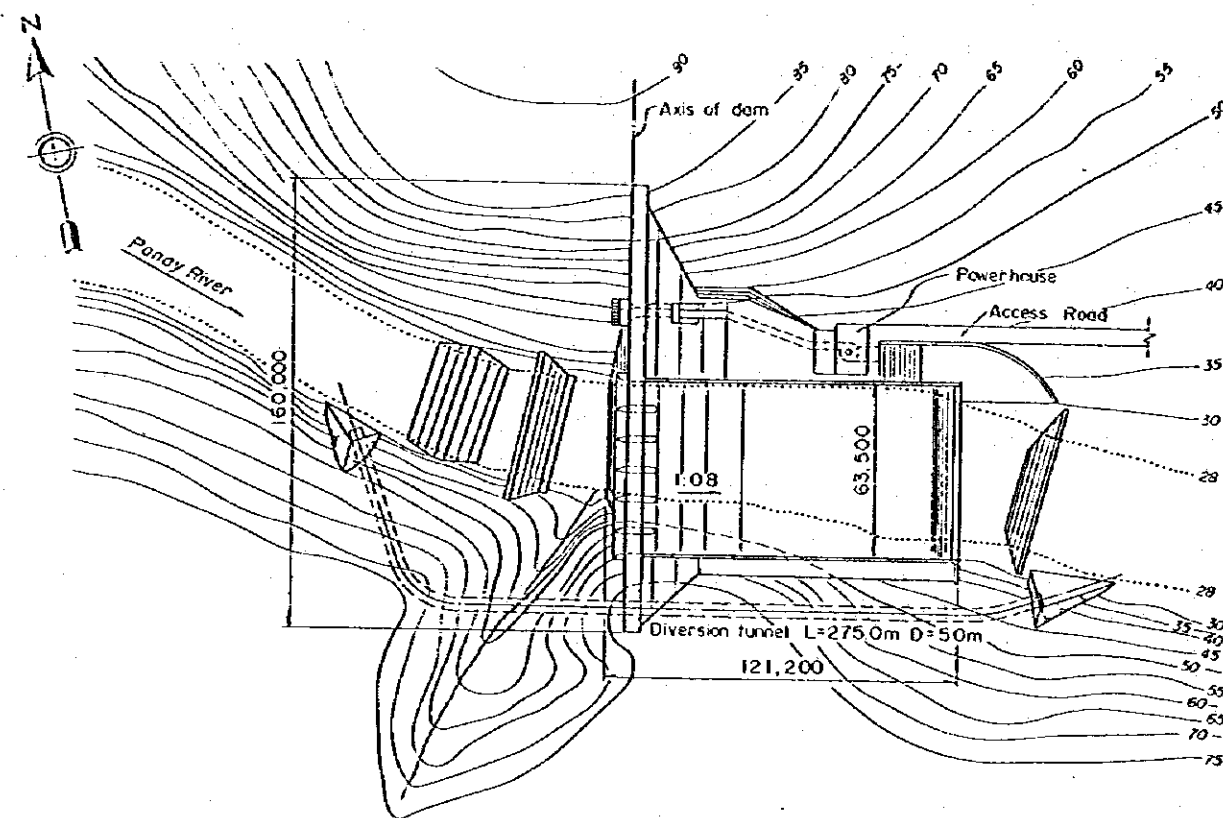


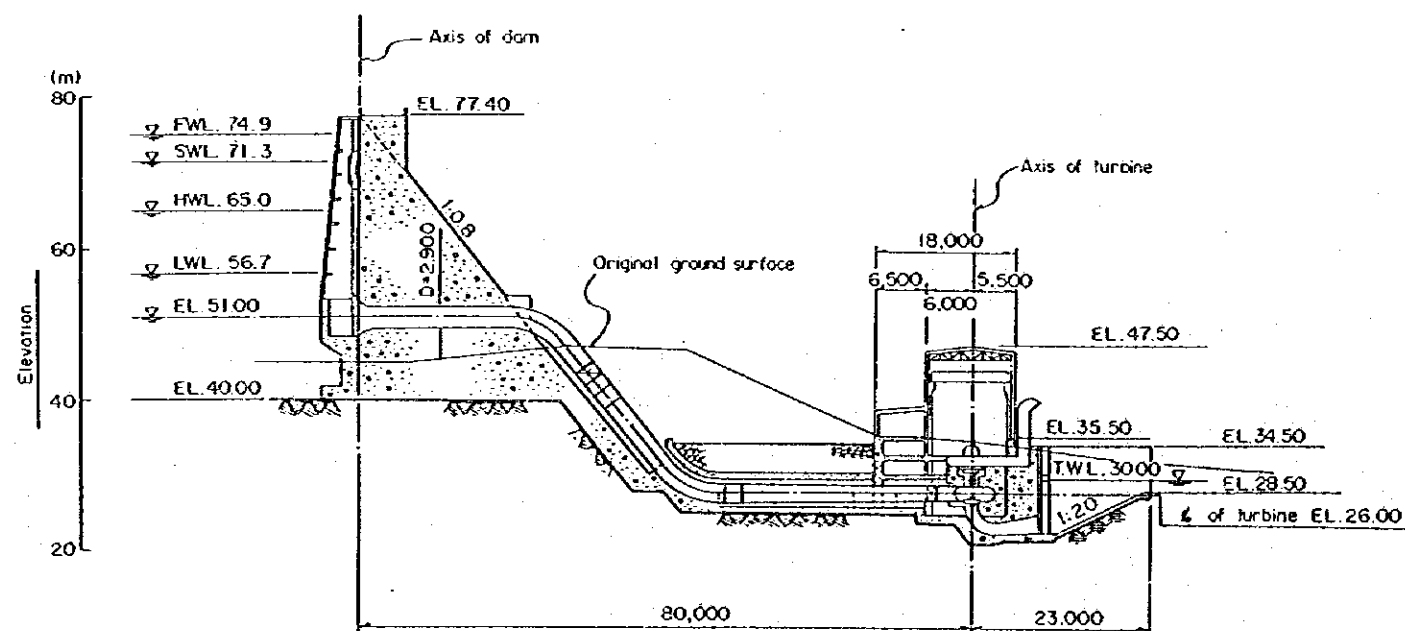
Fig. 4-9 PROPOSED INSTALLATION PROGRAM OF POWER PLANTS IN PANAY ISLAND

(Note) *1 : Pullout Power Barge-B -32MW
(Retire PECO Diesel) -19.75MW
Interconnection -47.5MW

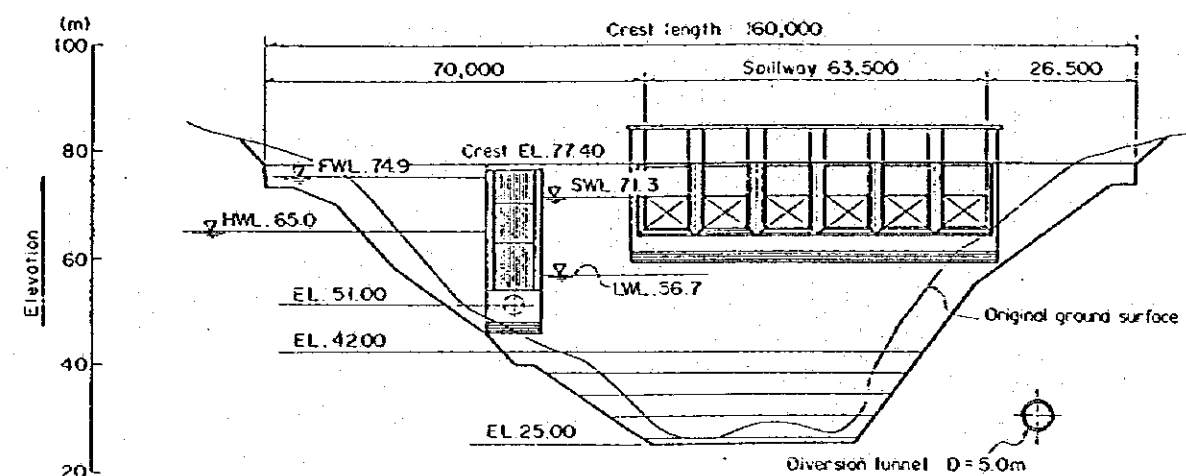
*2 : Figure of present dependable output is based on the information from NPC



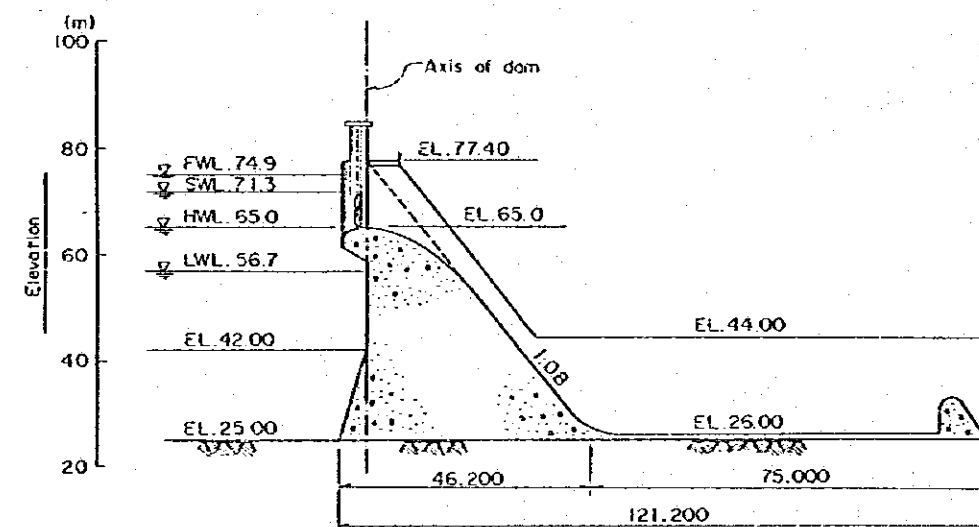
GENERAL PLAN SCALE A



WATERWAY AND POWERHOUSE SCALE C



VIEW FROM UPSTREAM SCALE B



TYPICAL SECTION OF DAM SCALE B

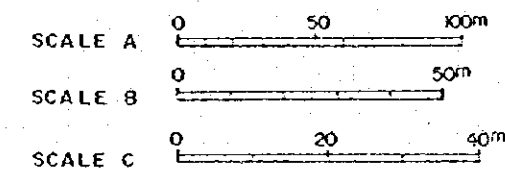
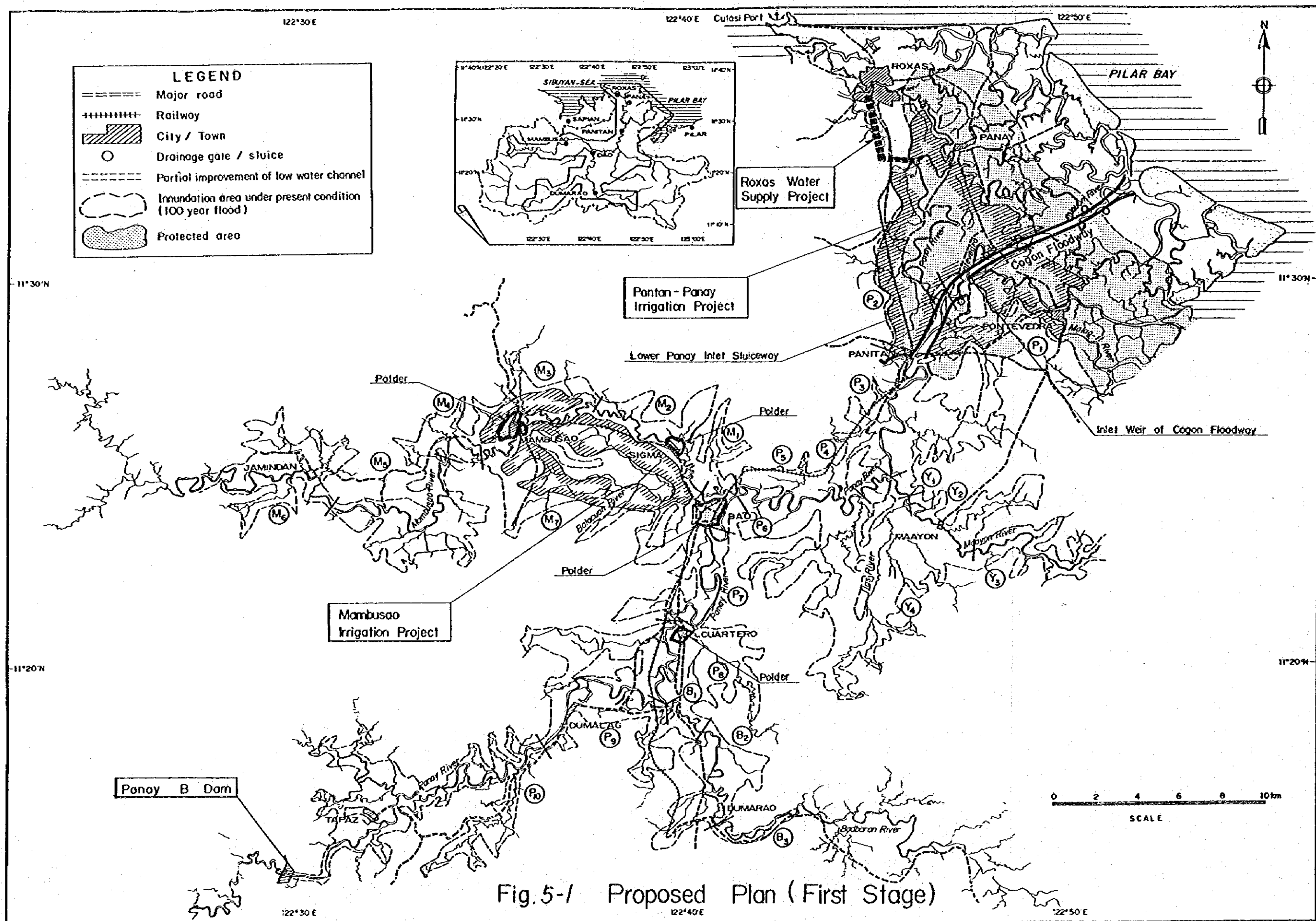


Fig.4-10 PANAY B DAM SCHEME



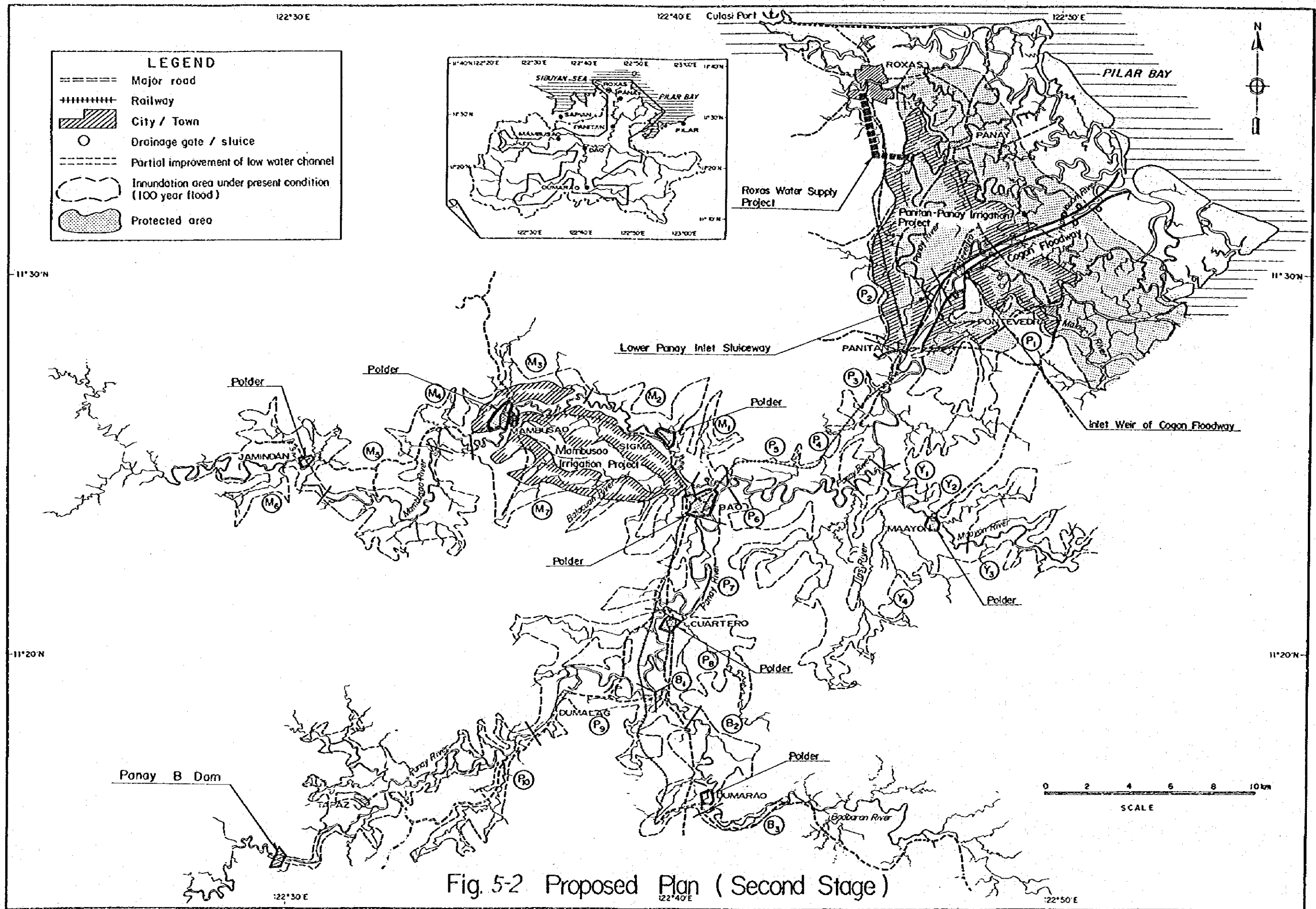


Fig. 5-2 Proposed Plan (Second Stage)

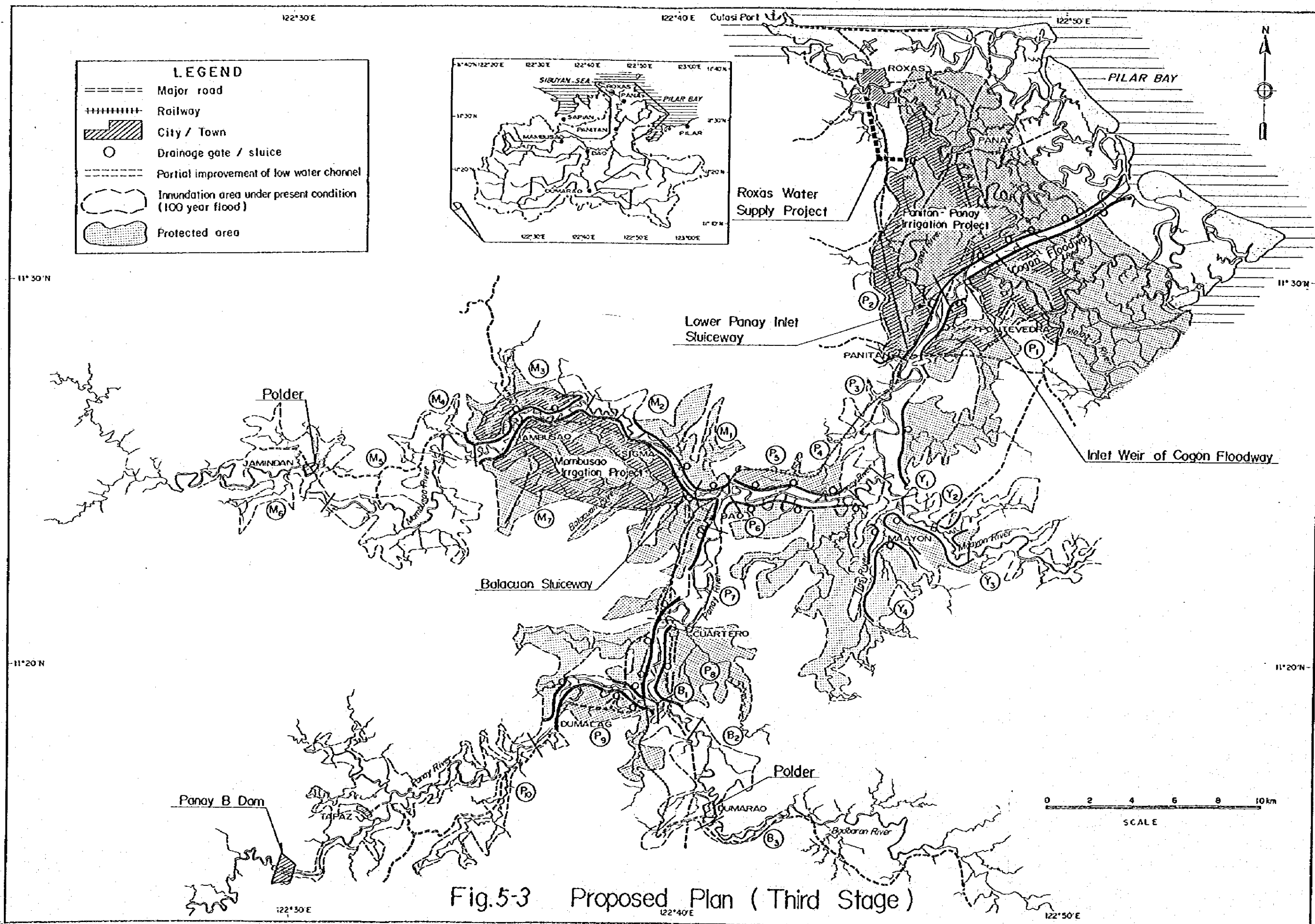



Fig. 5-4 IMPLEMENTATION OF PROPOSED PROJECTS MASTER SCHEDULE

PROJECT	CONST. ¹ COST (P x 10 ⁶)	Short-term Program														Long-term Program					
		84	85	86	87	88	89	90	91	92	93	94	95	96	97 00	2001	2010	2011	2020	2021	2030
BASIN-WIDE FLOOD CONTROL STUDY																					
FLOOD CONTROL PROJECT																					
First Stage Project																					
- River improvement work (I)	589			FN		FN			TC			(Prep.)									
- Polder - Dao	55					FN		TC													
- Polder - Cuartero	59						FN		TC												
- Polder - Sigma	42						FN		TC												
- Polder - Mambusao	78					FN		TC													
Second Stage Project																					
- River improvement work (II)	440															FN	TC				
- Polder - Maayon	49												FN		TC						
- Polder - Jamindan	39												FN		TC						
- Polder - Dumarao	58																	FN	TC		
Third Stage Project																					
- River improvement work (III)	3,486																		FN	TC	
Non-structural Measures	51						FN		Mapping/Zoning												
Flood Forecasting and Warning System	84					FN		TC													
MULTIPURPOSE DAM PROJECT																					
Panay B Dam	471					FN		TC & Prep.													
IRRIGATION PROJECT																					
Panitan - Panay Scheme	183						FN		TC												
Mambusao Scheme	79						FN		TC												
WATER SUPPLY PROJECT																					
Roxas-WD Water Supply Project	56			FN	TC																

Notes;  Feasibility study

 Detailed design

 Construction

FN: Financing

TC: Tender and Contract

Prep.: Preparatory works incl. land acquisition

¹ 1984 base price

