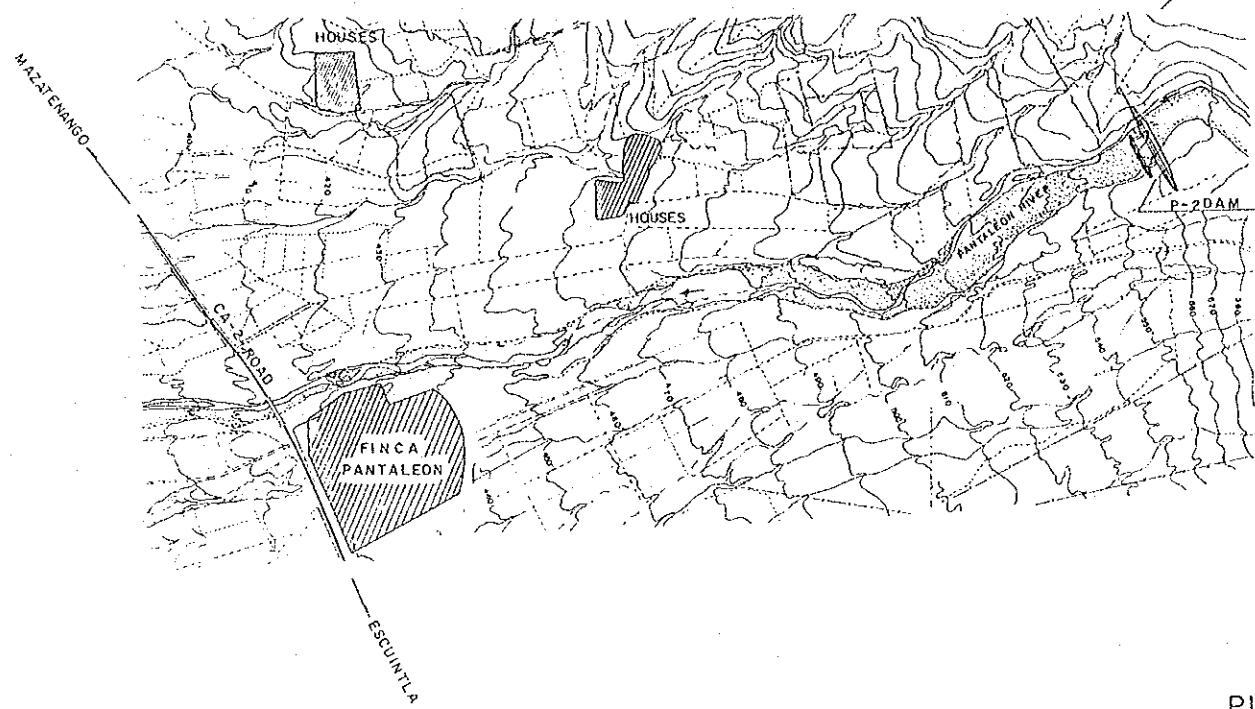


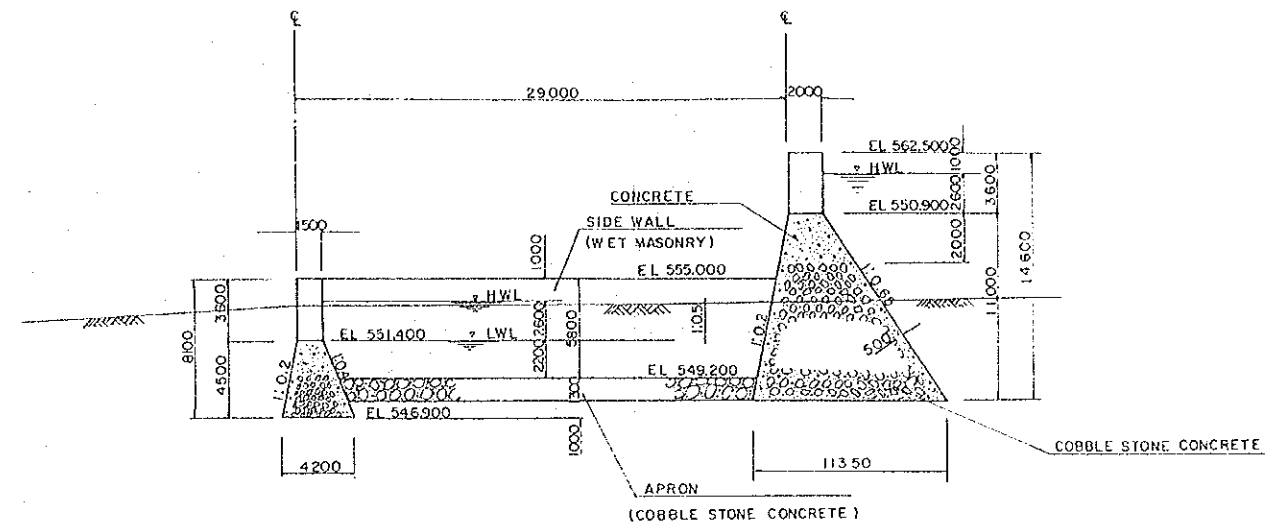
LOCATION MAP

SCALE 0 500 1000 1500m



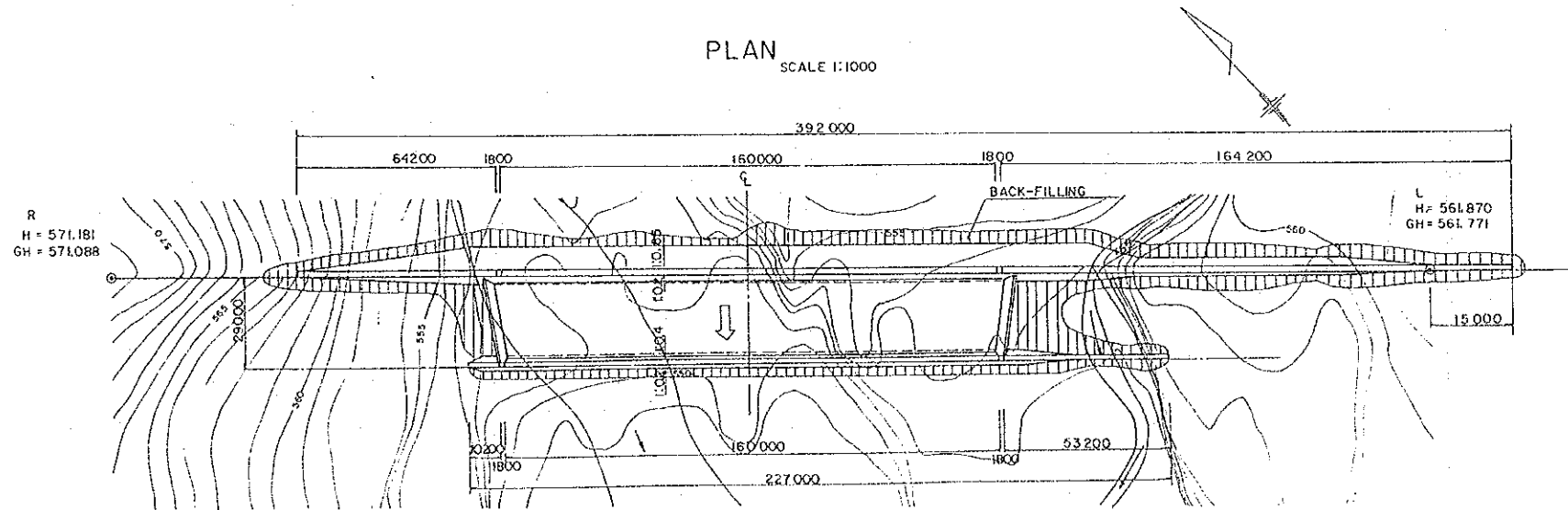
PROFILE

SCALE 1:200



PLAN

SCALE 1:1000



NOTE

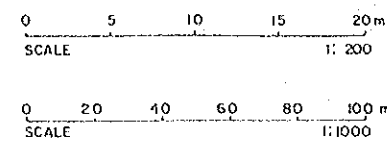
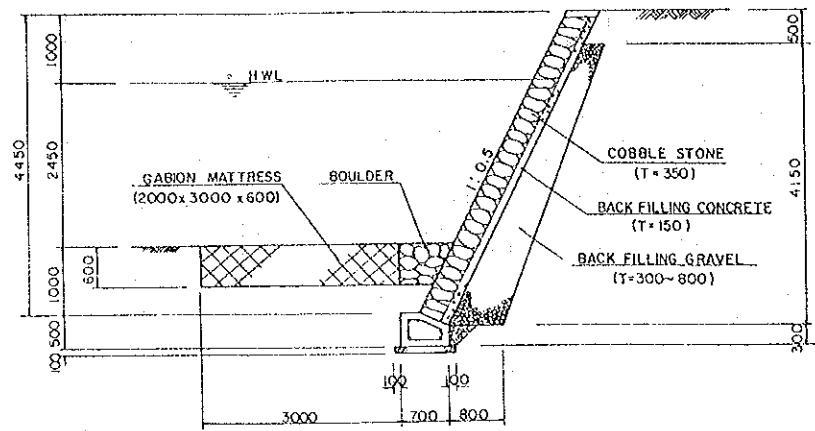
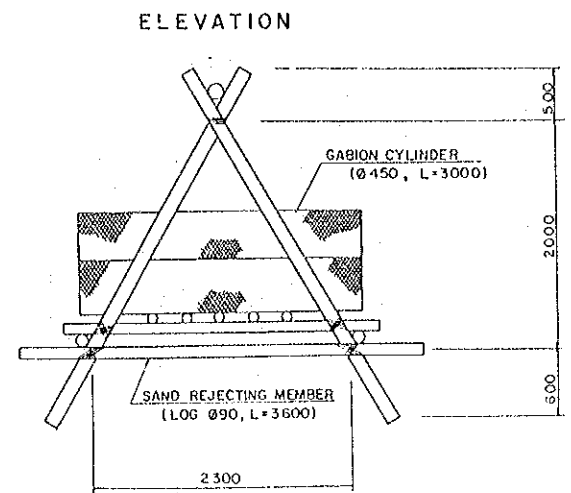


Fig. 6-8 ESTRUCTURA GENERAL DE LA PRESA DE CONTROL DE SEDIMENTOS (PLAN PROPUESTO)

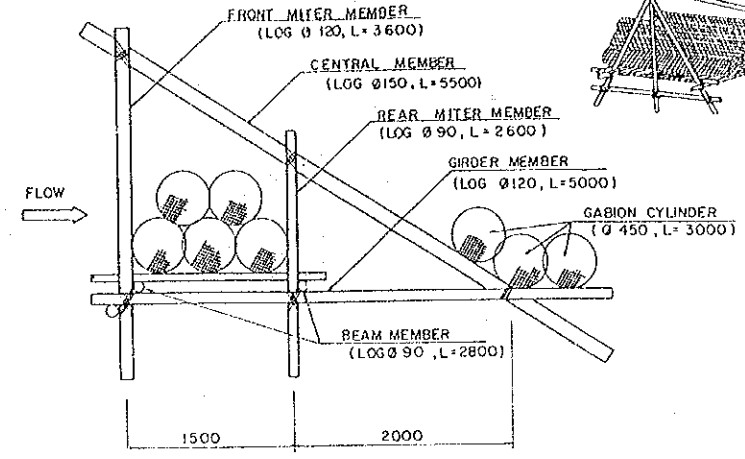
REVELMENT
SCALE 1:50



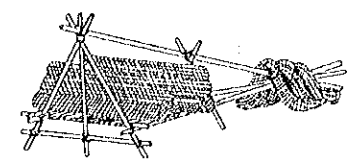
FOOT-PROTECTION GROUYNE (CRIB)
SCALE 1:30



SECTION



SKETCH



GROUNDSILL
SCALE 1:100

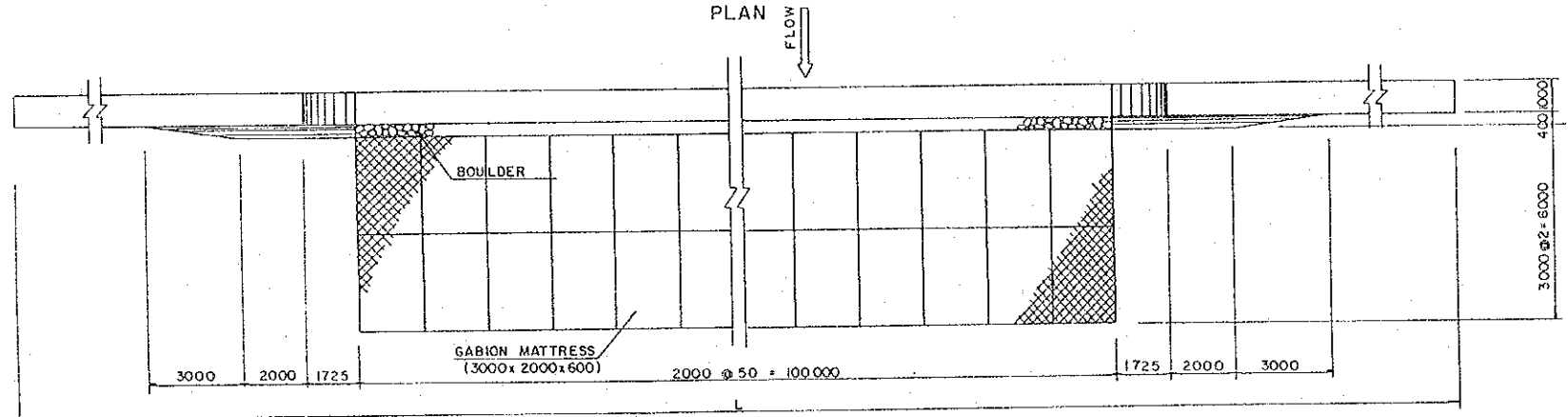
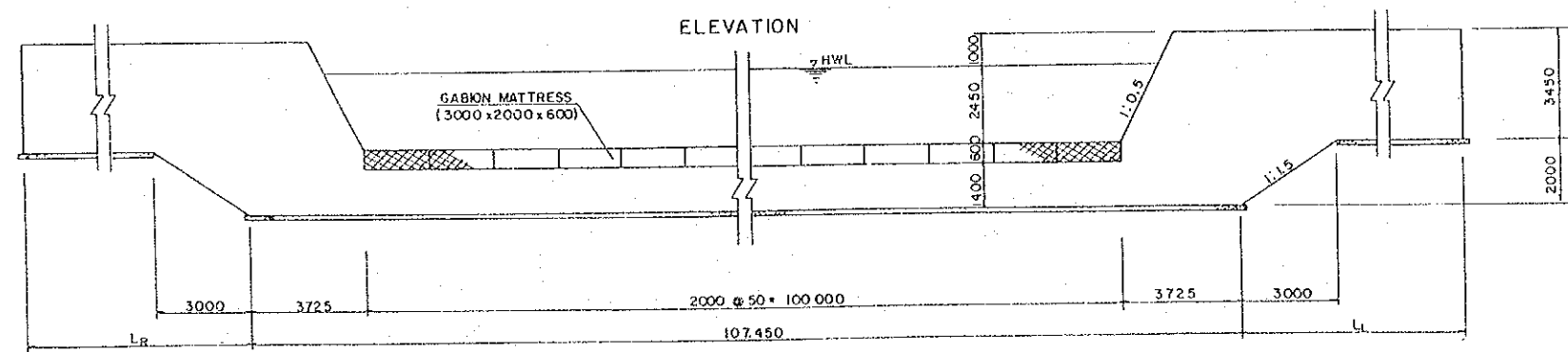
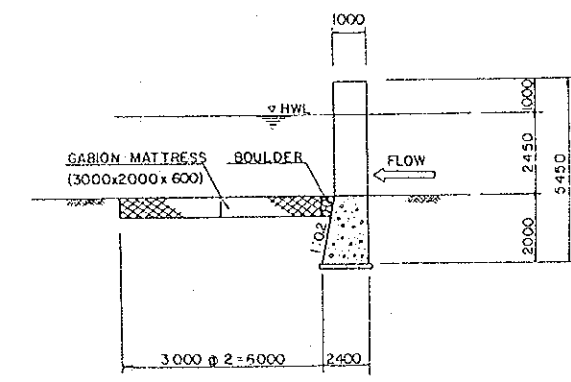


TABLE OF DIMENSIONS

STRUCTURE	L (m)	L _R (m)	L _L (m)	LOCATION
GROUNDSILLS	107.45	0	0	39.75 KM + 30 m, 39.9 KM + 20 m, 40.0 KM + 50 m, 40.2 KM, 42.8 KM + 25 m.
CHECK GROUND SILL (U)	172.0	15.275	49.275	42.95 KM + 25 m.
CHECK GROUND SILL (D)	201.0	43.275	50.275	40.2 KM + 150 m.



SECTION



NOTE

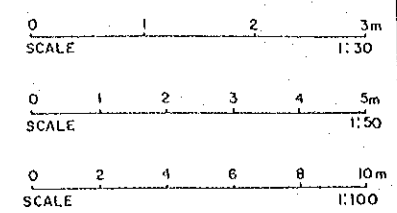
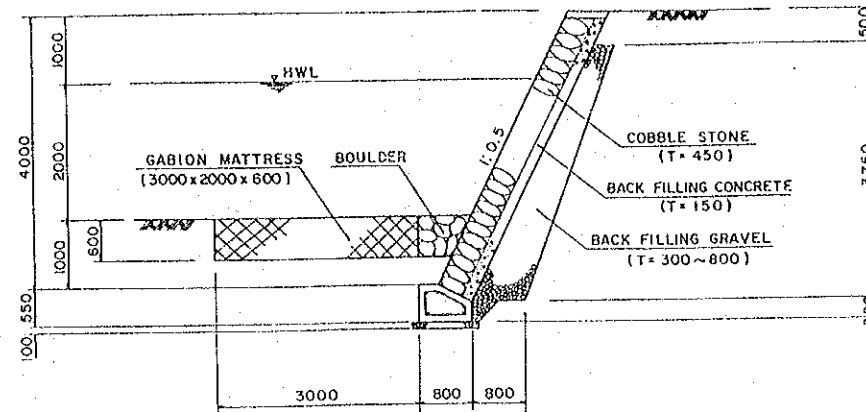


Fig. 6-9 (1/2) ESTRUCTURA GENERAL DE ESTRUCTURAS RIBEREÑAS (PLAN PROPUESTO) (RIO ACHIGUATE)

REVETMENT

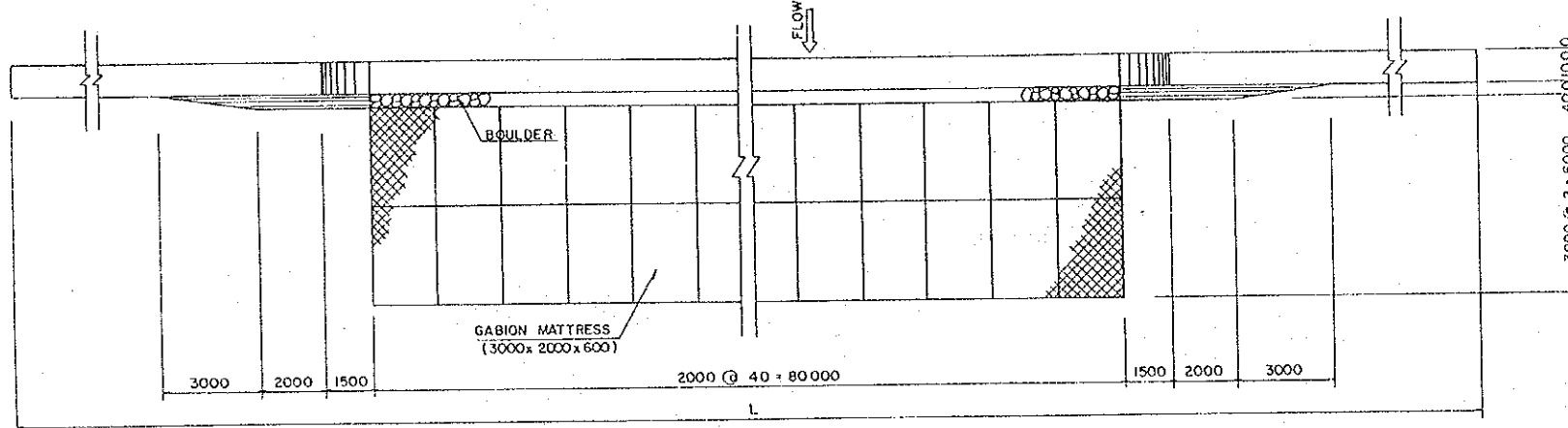
SCALE 1:50



PLAN

GROUNDSILL

SCALE 1:100



ELEVATION

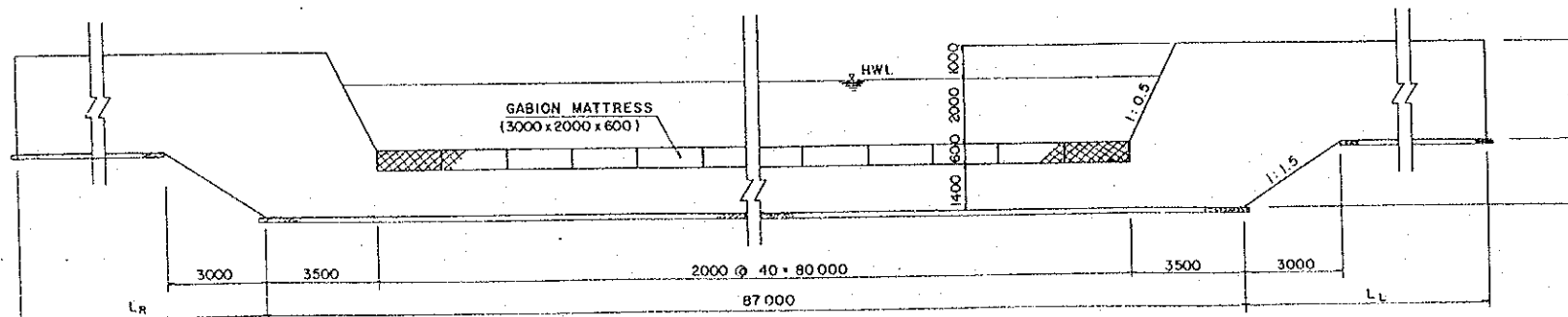
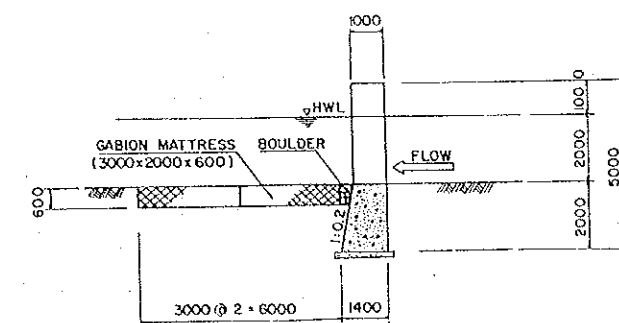


TABLE OF DIMENSIONS

STRUCTURE	L (m)	L _R (m)	L _L (m)	LOCATION
GROUNDSILLS	87.0	0	0	18.45 KM+30m, +45 m, 18.55 KM+40m, 18.6 KM+40m, +90m, +140m +190m, 18.8 KM+40m, +90m, +140m, 190m, 19.0 KM+45m, +95m
CHECKGROUNDSILL (U)	104.0	3.5	13.5	21.4 KM+25m
CHECKGROUNDSILL (D)	132.0	28.5	16.5	19.4 KM+80m, 19.4 KM+30m, 21.3 KM+45m, 21.35 KM+35m,

SECTION



NOTE

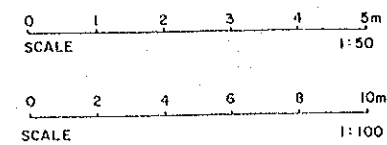


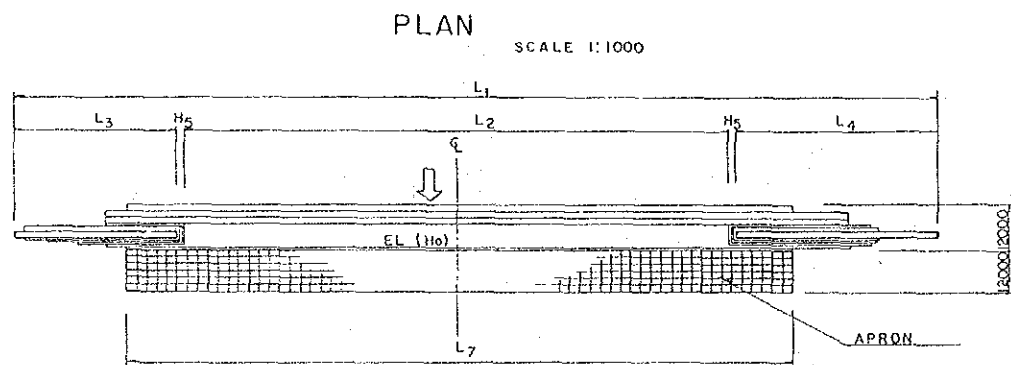
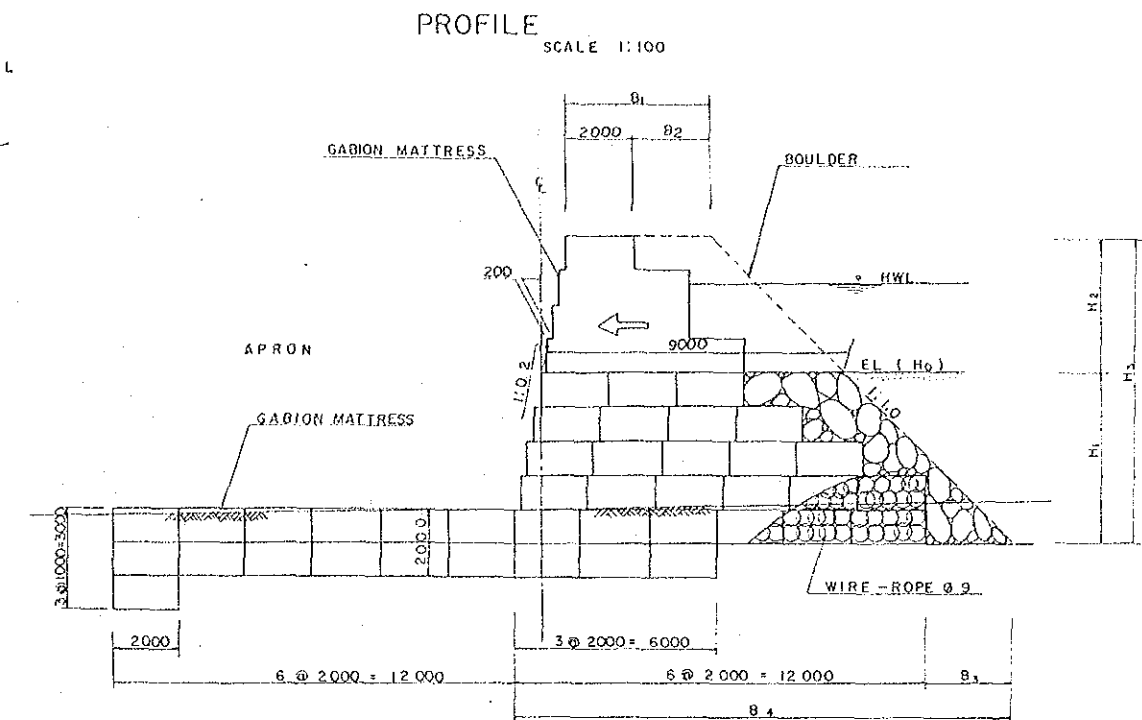
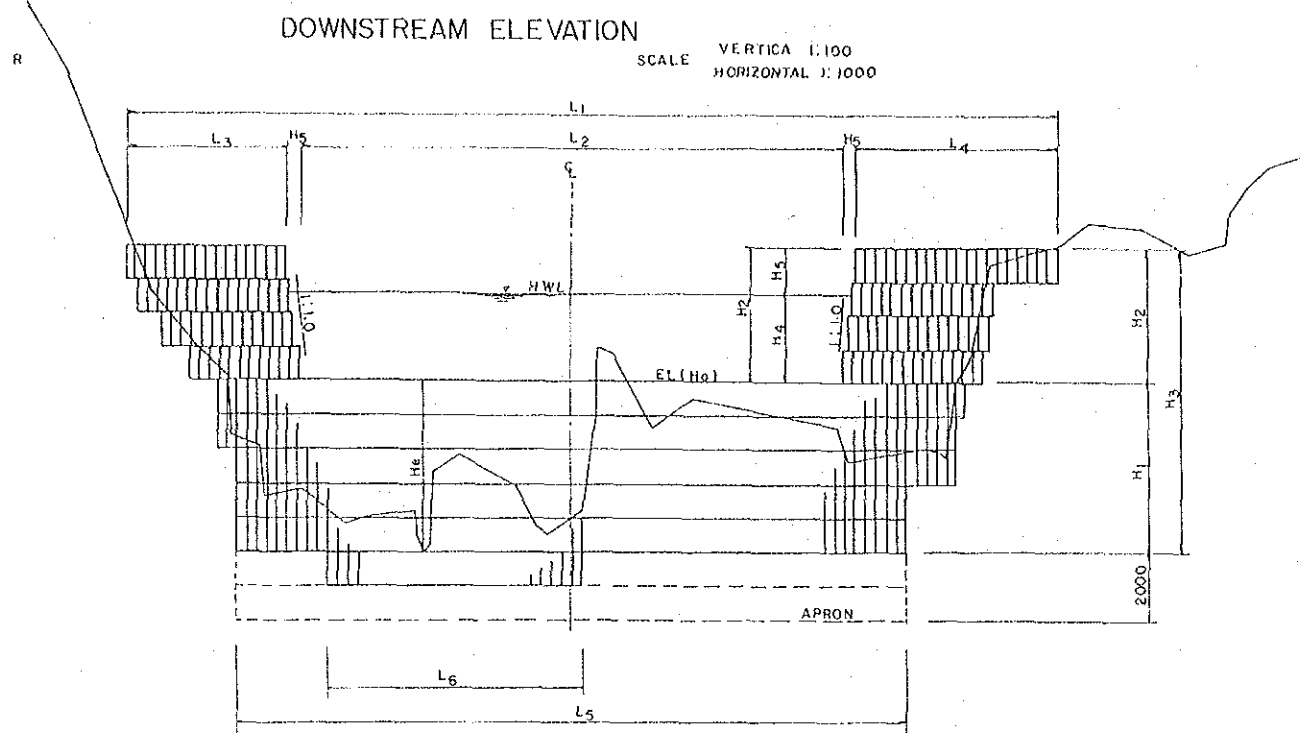
Fig. 6-9 (2/2) ESTRUCTURA GENERAL DE ESTRUCTURAS RIBEREÑAS (PLAN PROPUESTO) (RIO PANTALEON)

CONSTRUCTION WORKS	WORK ITEM	VOLUME	YEAR				
			1986	1987	1988	1989	1990
SEDIMENT CONTROL DAM	DETAILED DESIGN	L/S	██████████	-----			
	PREPARATION	L/S		██			
	EXCAVATION	30,800 m ³			██		
	STONE CONCRETE WORKS	21,900 m ³			██	██	
	OTHER WORKS	L/S				██	
	EXCAVATION	26,000 m ³			██		
	STONE CONCRETE WORKS	16,200 m ³			██	██	
	OTHER WORKS	L/S				██	
	EXCAVATION	51,200 m ³			██		
	STONE CONCRETE WORKS	24,300 m ³			██	██	██
RIVER IMPROVEMENT	OTHER WORKS	L/S					██
	PREPARATION	L/S				██	
	EXCAVATION	574,000 m ³				██	██
	REVTMENT WORKS (WET MASONRY)	8,020 m ²					██
	GROYNE WORKS (CRIB)	68 unit					██
	OUNDSILL WORKS(CONCRETE)	2,760 m ³				██	██
	EXCAVATION	199,000 m ³					██
	REVTMENT WORKS(WET MASONRY)	10,200 m ²					██
	OUNDSILL WORKS(CONCRETE)	6,600 m ³				██	██
	PANTALEON						██

Fig. 6-10 CALENDARIO DE CONSTRUCCION (PLAN PROPUESTO)



Fig. 6-11 UBICACION DE PRESAS DE CONTROL DE SEDIMENTOS (PLAN ALTERNATIVO)



DIMENSIONS

RIVER NAME	DAM SITE	MAIN DAM													APRON				
		LENGTH (m)						HEIGHT (m)						WIDTH (m)					
		L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	H _e	H ₁	H ₂	H ₃	H ₄	H ₅	H ₀	B ₁	B ₂	B ₃	B ₄	L ₇
ACHIGUATE	A-1	404	180	114	102	360	111	5	5	4	9	2.4	1.6	156.8	1.2	2.2	2.6	14.6	300
	A-1'	401	180	99	114	198	75	3.5	4	4	8	2.3	1.7	213.5	4.2	2.2	1.8	13.8	249
	A-2	101	70	9	12	81	81	5	5	5	10	3.9	1.1	535	3	1	2.6	14.6	91
PANTALEON	C-1	424	220	87	111	330	90	4.5	5	3	8	2.1	0.9	154.6	5.4	3.4	2.6	14.6	330
	P-2	276	160	48	60	198	75	5	5	4	9	2.6	1.4	554.9	4.4	2.2	2.6	14.6	198
	P-2'	308	120	87	93	279	140	4	4	4	8	2.8	1.2	694.5	4.4	2.2	1.8	13.8	198
	P-3	167	120	18	21	132	132	5	5	4	9	2.8	1.2	795	4.4	2.2	2.6	14.6	150
	P-4	170	120	24	18	141	141	5	5	4	9	2.8	1.2	815	4.4	2.2	2.6	14.6	141
P-5	158	120	12	18	141	81	5	5	4	9	2.8	1.2	855	4.4	2.2	2.6	14.6	141	

NOTE

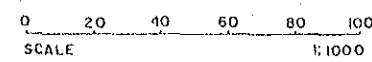
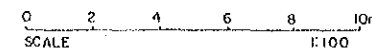


Fig. 6-12 ESTRUCTURA GENERAL DE LA PRESA DE CONTROL DE SEDIMENTOS (PLAN ALTERNATIVO)

REVTMENT
SCALE 1:50

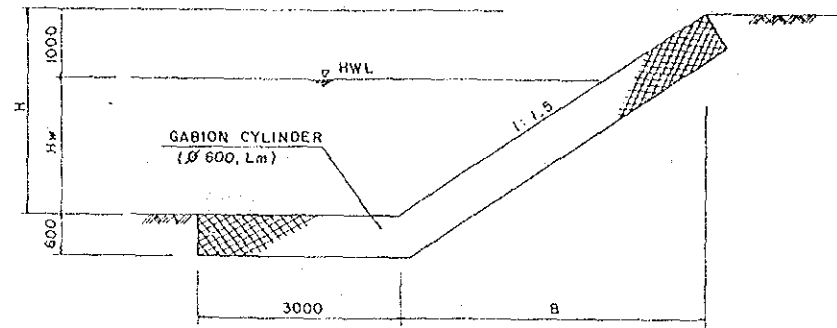
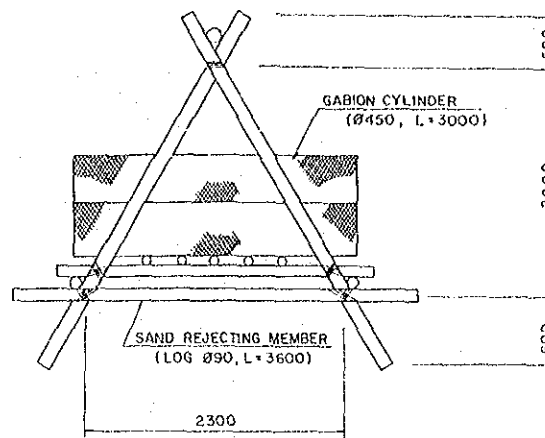


TABLE OF DIMENSIONS

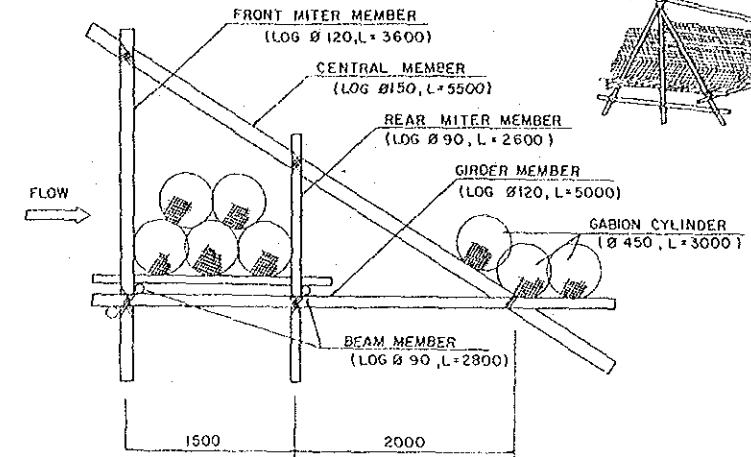
RIVER	H _w (m)	H(m)	B(m)	L(m)
ACHIGUATE RIVER	2.1	3.1	4.65	8.0
PANTALEON RIVER	1.7	2.7	4.05	7.0

FOOT-PROTECTION GROUYNE (CRIB)
SCALE 1:30

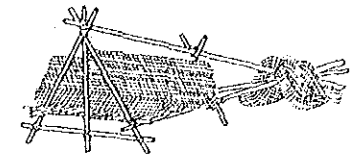
ELEVATION



SECTION



SKETCH



GROUNDSILL
SCALE 1:100

PLAN

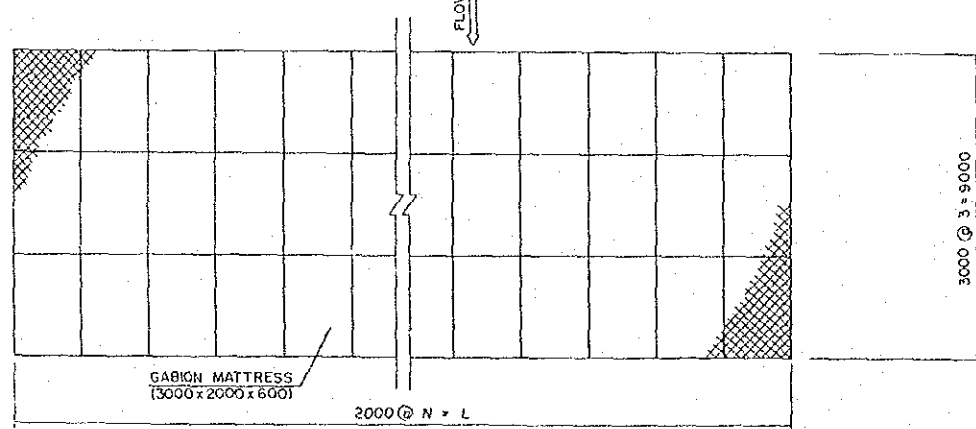
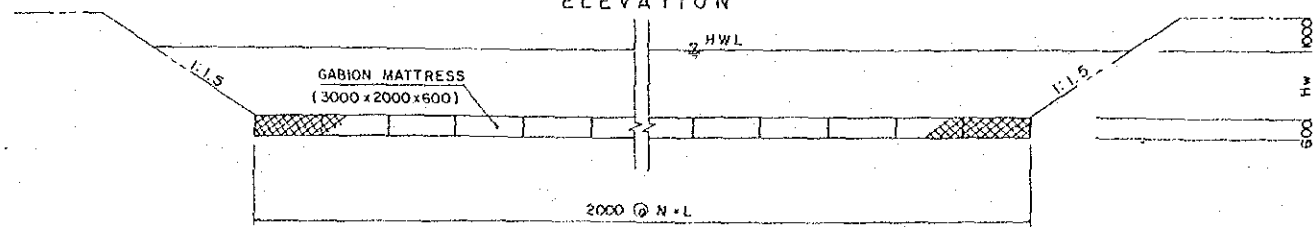


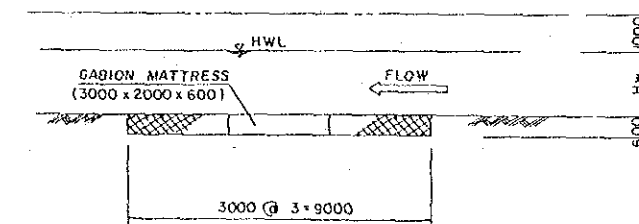
TABLE OF DIMENSIONS

RIVER	N	L(m)	H _w (m)	LOCATION
ACHIGUATE RIVER	50	100.0	2.1	18.45KM+30m, +45m, 18.55KM+40m, +90m, +140m, +190m, 18.8KM+40m, +90m, +140m, +190m, 19.0KM+45m, +95m, +145m, +195m, 19.2KM+40m, +90m, +140m, +190m,
PANTALEON RIVER	40	80.0	1.7	39.25KM+30m, 39.9KM+20m, 40.0KM+80m, 40.2KM+40.2KM+150m, 42.8KM+25m, 42.95KM+25m, 19.4KM+30m, +80m, 21.3KM+45m, 21.35KM+35m, 21.4KM+25m

ELEVATION



SECTION



NOTE

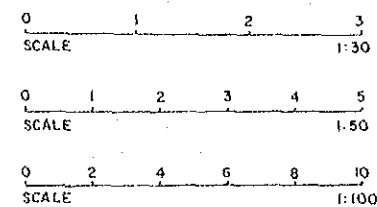


Fig. 6-13 ESTRUCTURA GENERAL DE LAS ESTRUCTURAS RIBEREÑAS (PLAN ALTERNATIVO)

CONSTRUCTION WORKS	RIVER IMPROVEMENT	SEDIMENT CONTROL DAM	ACHIGUATE	PANTALEON	VOLUME	YEAR				
						1986	1987	1988	1989	1990
DETAILED DESIGN					L/S					
PREPARATION					L/S					
ACHIGUATE			A-1 DAM (GABION MATTRESS)		36,000 m ³					
			A-2 DAM (do)		21,000 m ³					
			A-3 DAM (do)		9,000 m ³					
PANTALEON			C-1 DAM (do)		35,000 m ³					
			P-2 DAM (do)		23,000 m ³					
			P-2' DAM (do)		21,000 m ³					
			P-3 DAM (do)		16,000 m ³					
			P-4 DAM (do)		14,000 m ³					
			P-5 DAM (do)		18,000 m ³					
RIVER IMPROVEMENT			ACHIGUATE		L/S					
			EXCAVATION		505,000 m ³					
			REVETMENT WORKS (GABION CYLINDER)		4,960 m ³					
			GROYNE WORKS (CRIB)		68 unit					
			GROUNDSILL WORKS (GABION MATTRESS)		3,150 m ³					
PANTALEON			EXCAVATION		146,000 m ³					
			REVETMENT WORKS (GABION CYLINDER)		5,980 m ³					
			GROUNDSILL WORKS (GABION MATTRESS)		8,640 m ³					

Fig. 6-14 CALENDARIO DE CONSTRUCCION (PLAN ALTERNATIVO)

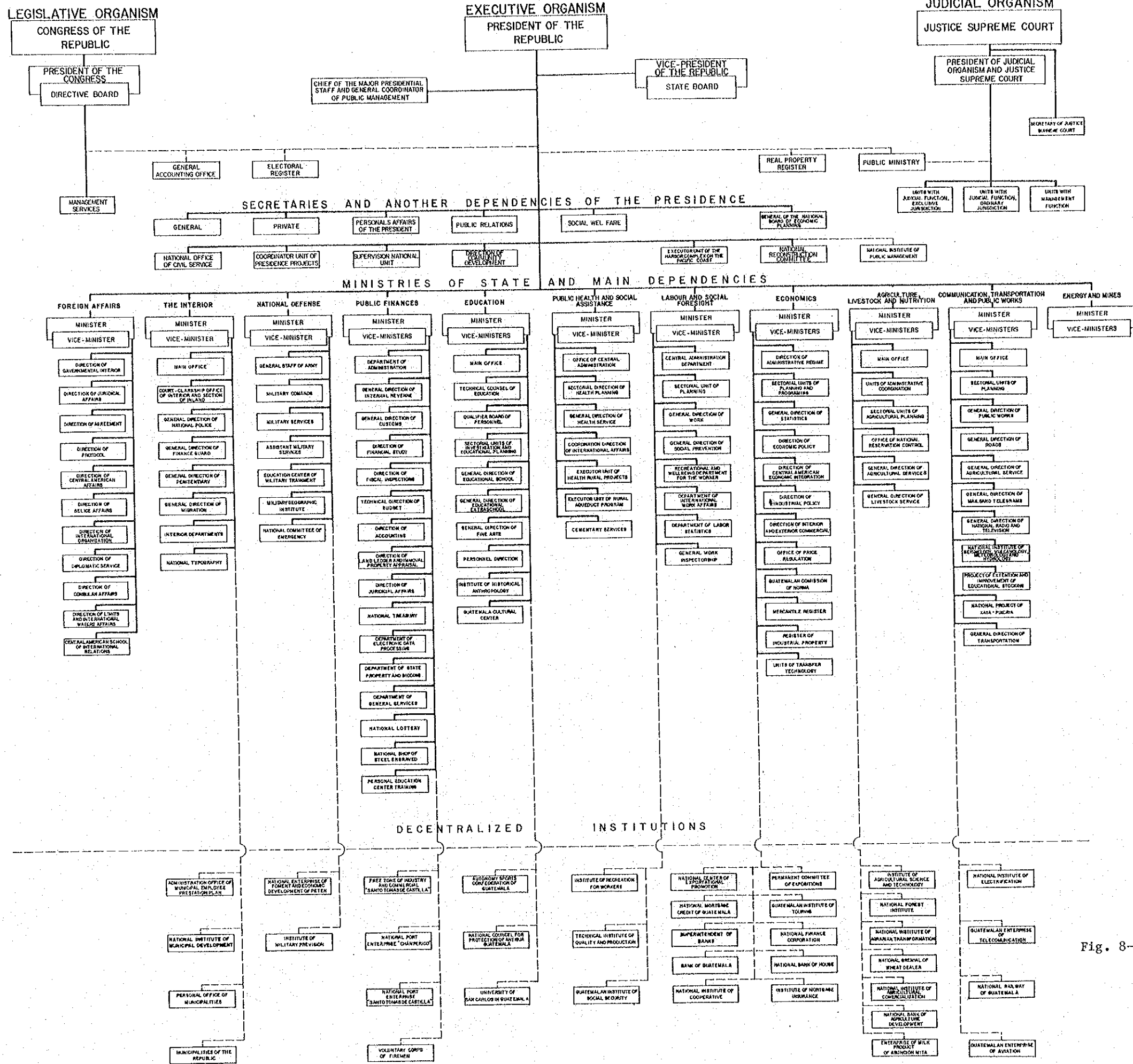


Fig. 8-1

ORGANIGRAMA DE LA ADMINISTRACION DEL GOBIERNO DE GUATEMALA

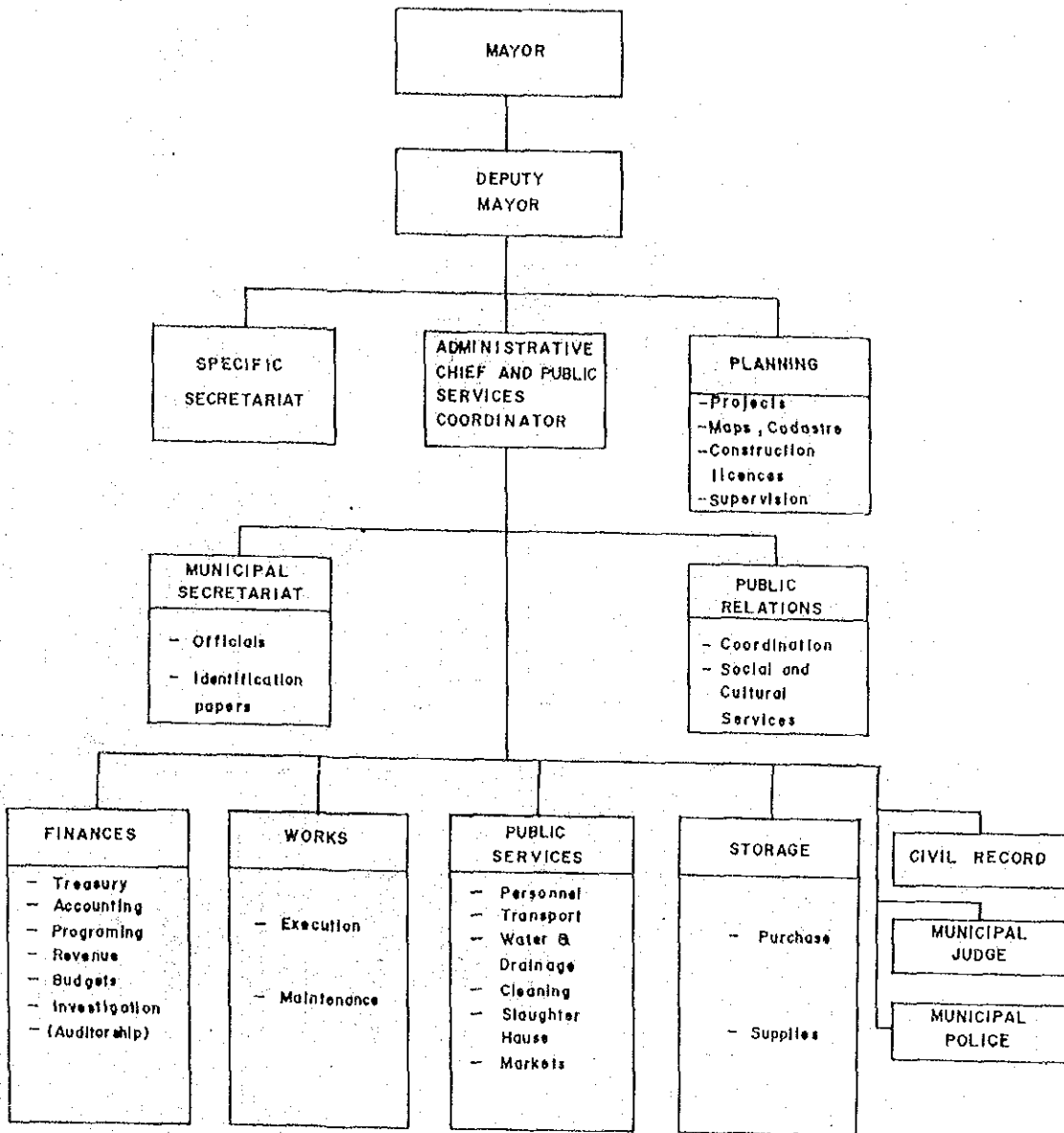


Fig. 8-2 ORGANIGRAMA GENERAL DE LA MUNICIPALIDAD DE ESCUINTLA

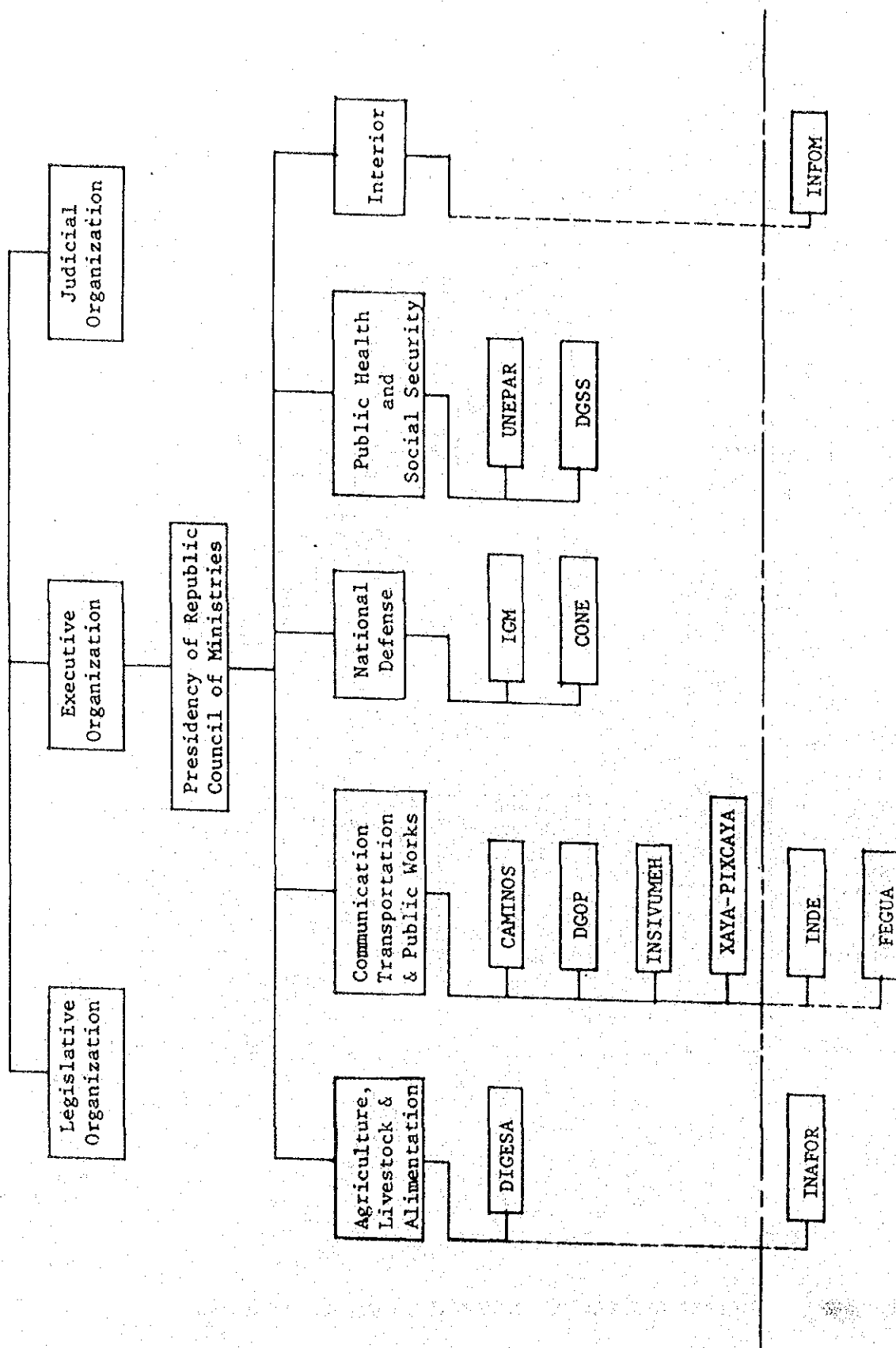


Fig. 8-3 ORGANIZACION Y AGENCIAS CONCERNIENTES A LA ADMINISTRACION DEL AGUA EN GUATEMALA

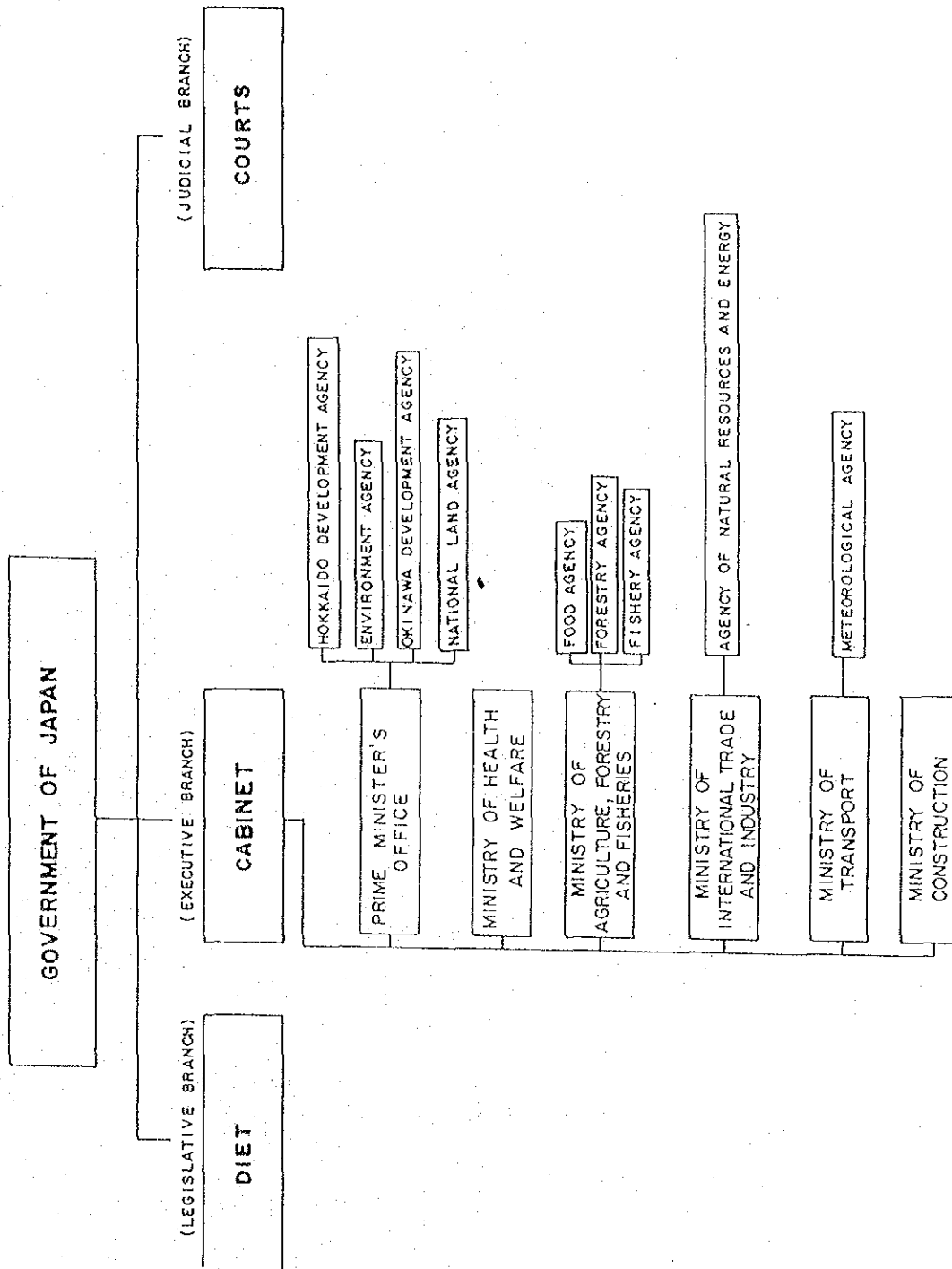


Fig. 8-4 ORGANIZACION ADMINISTRATIVA RELACIONADA CON LA ADMINISTRACION DEL AGUA EN JAPON

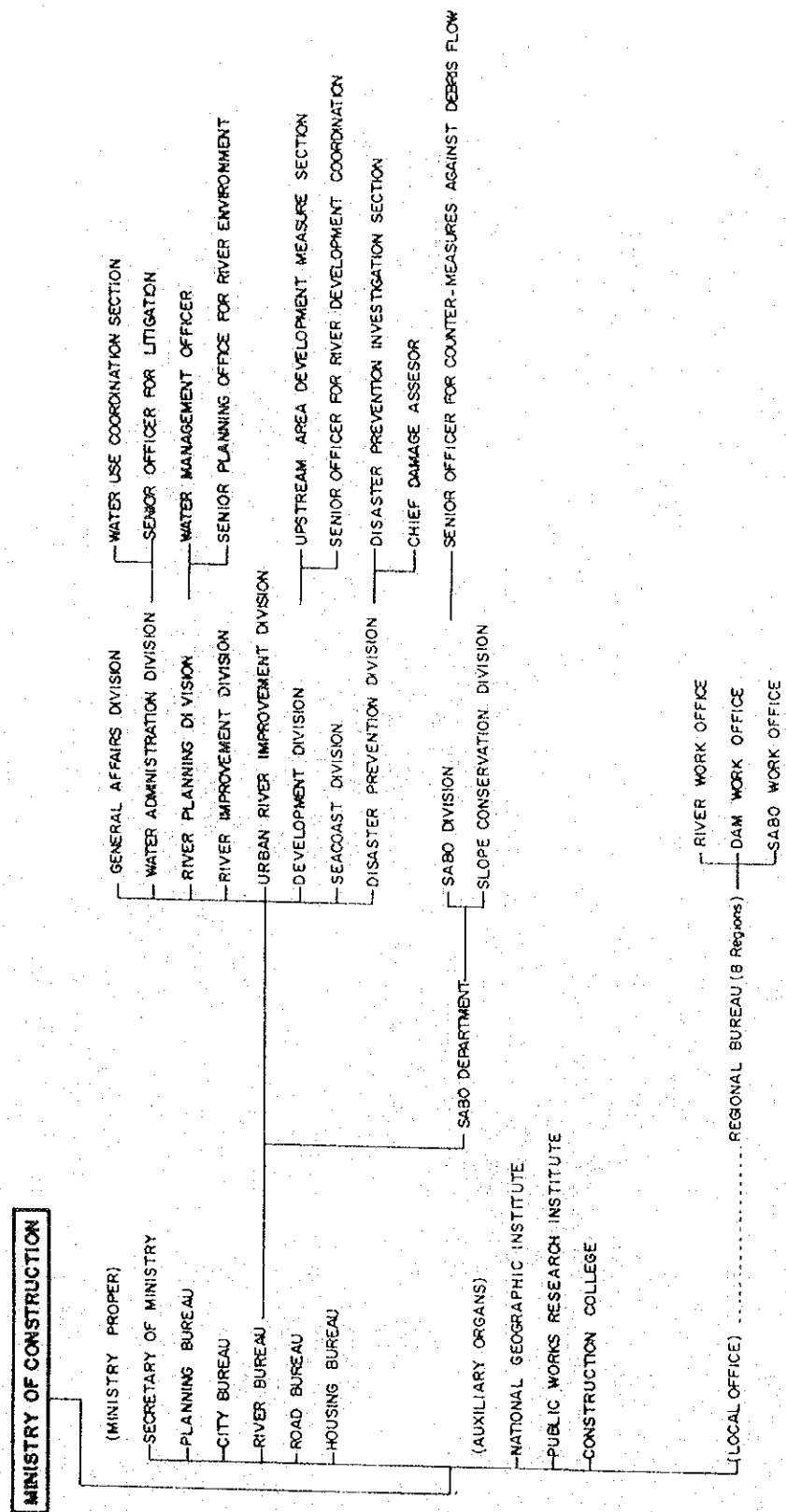


Fig. 8-5 ORGANIGRAMA DEL MINISTERIO DE CONSTRUCCION CON DETALLE DE SU OFICINA DE RIOS

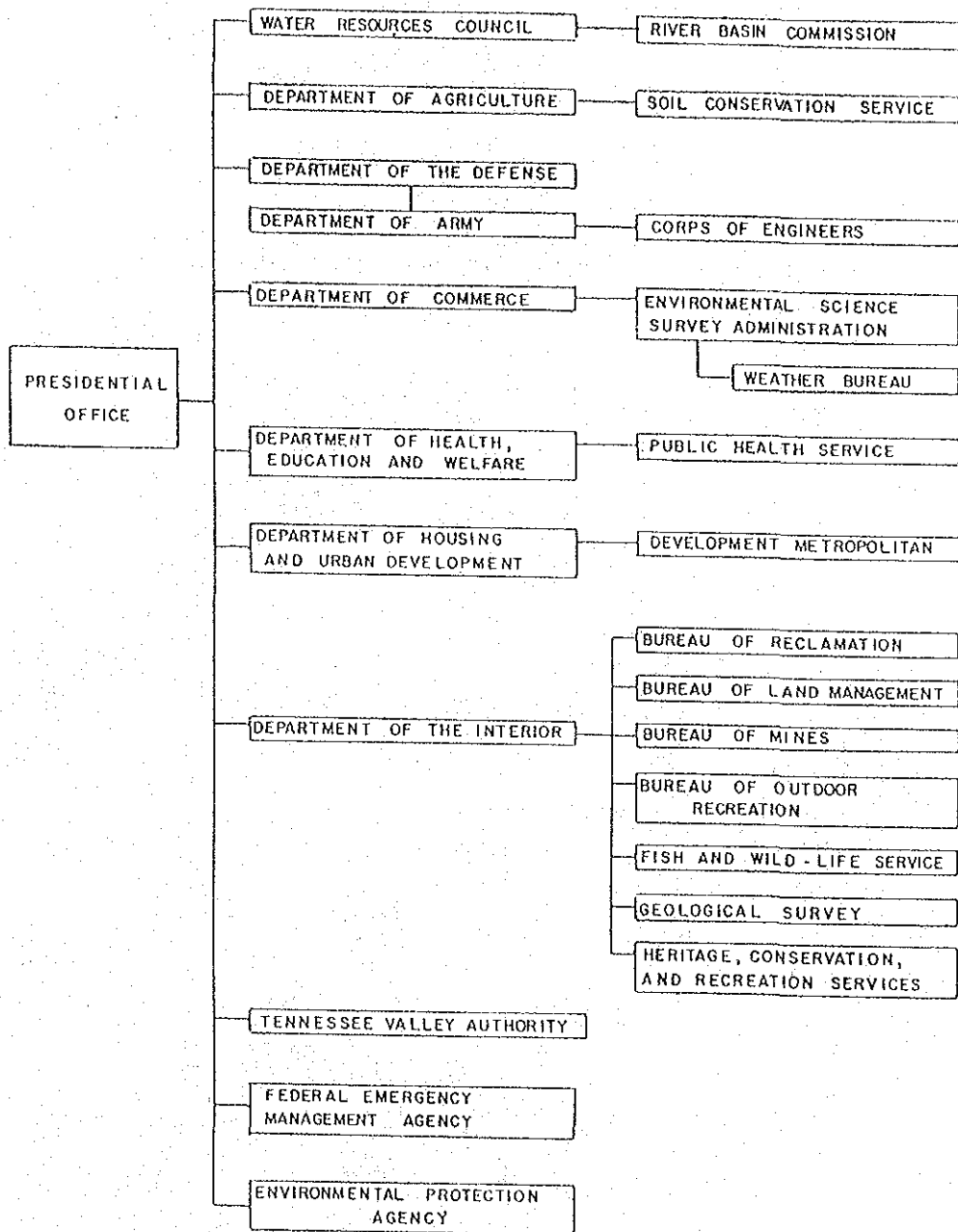


Fig. 8-6 ORGANIZACION ADMINISTRATIVA RELACIONADA CON LA ADMINISTRACION DEL AGUA EN EE.UU.

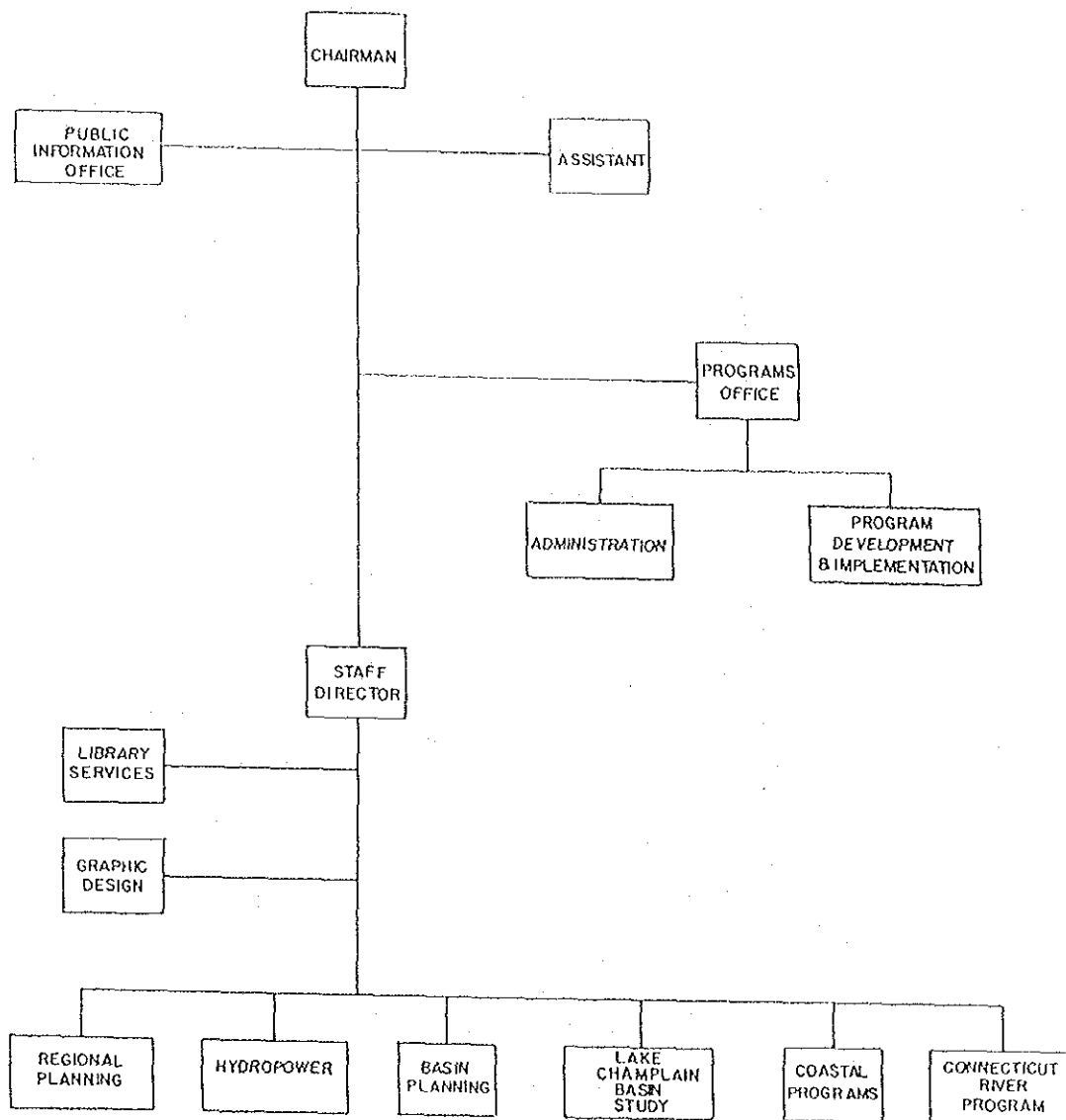


Fig. 8-7 ORGANIGRAMA DE LA COMISION DE LA CUENCA DEL RIO NUEVA INGLATERRA

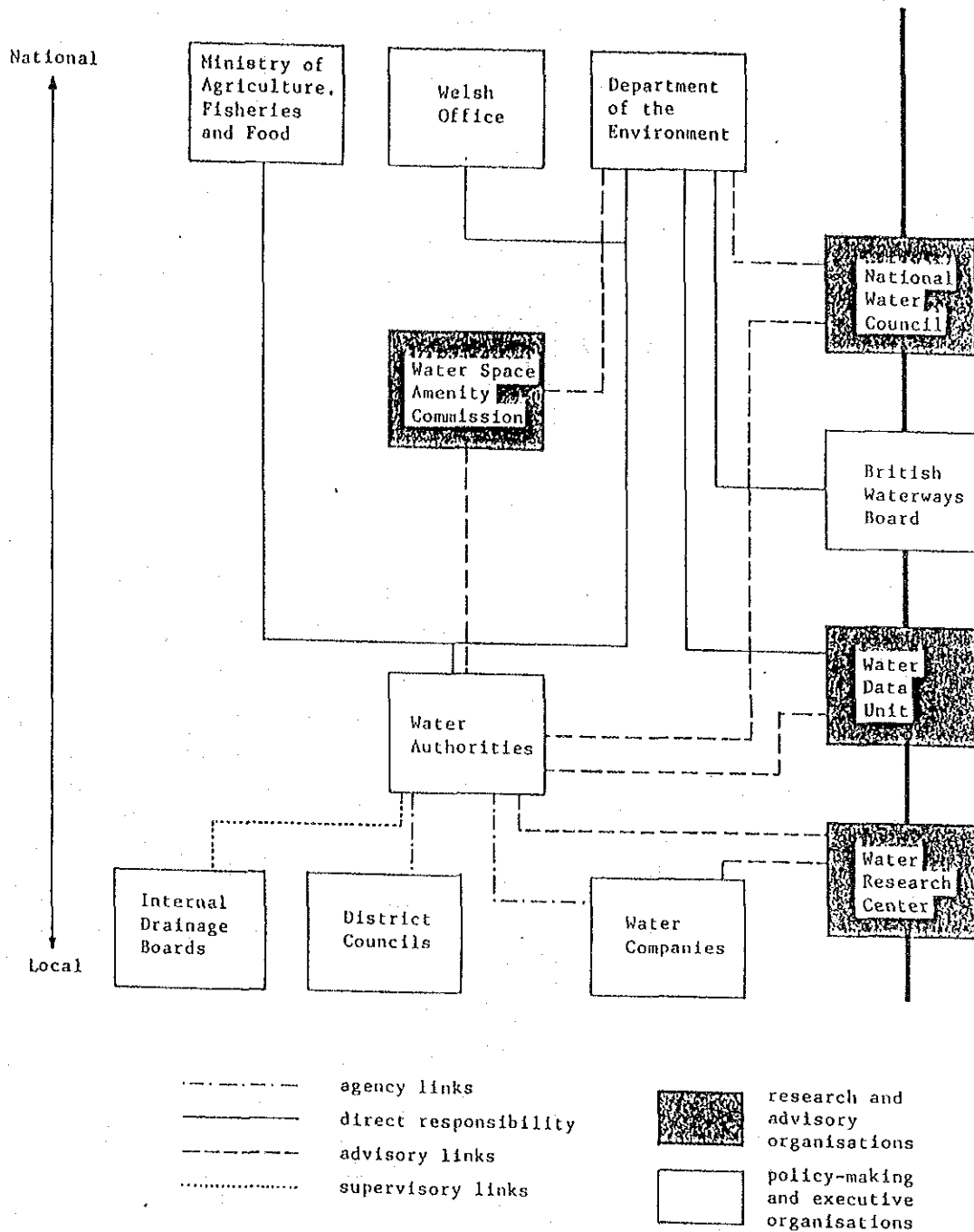


Fig. 8-8 ORGANIZACION ADMINISTRATIVA RELACIONADA CON LA ADMINISTRACION DEL AGUA EN EL REINO UNIDO

COMMITTEE STRUCTURE

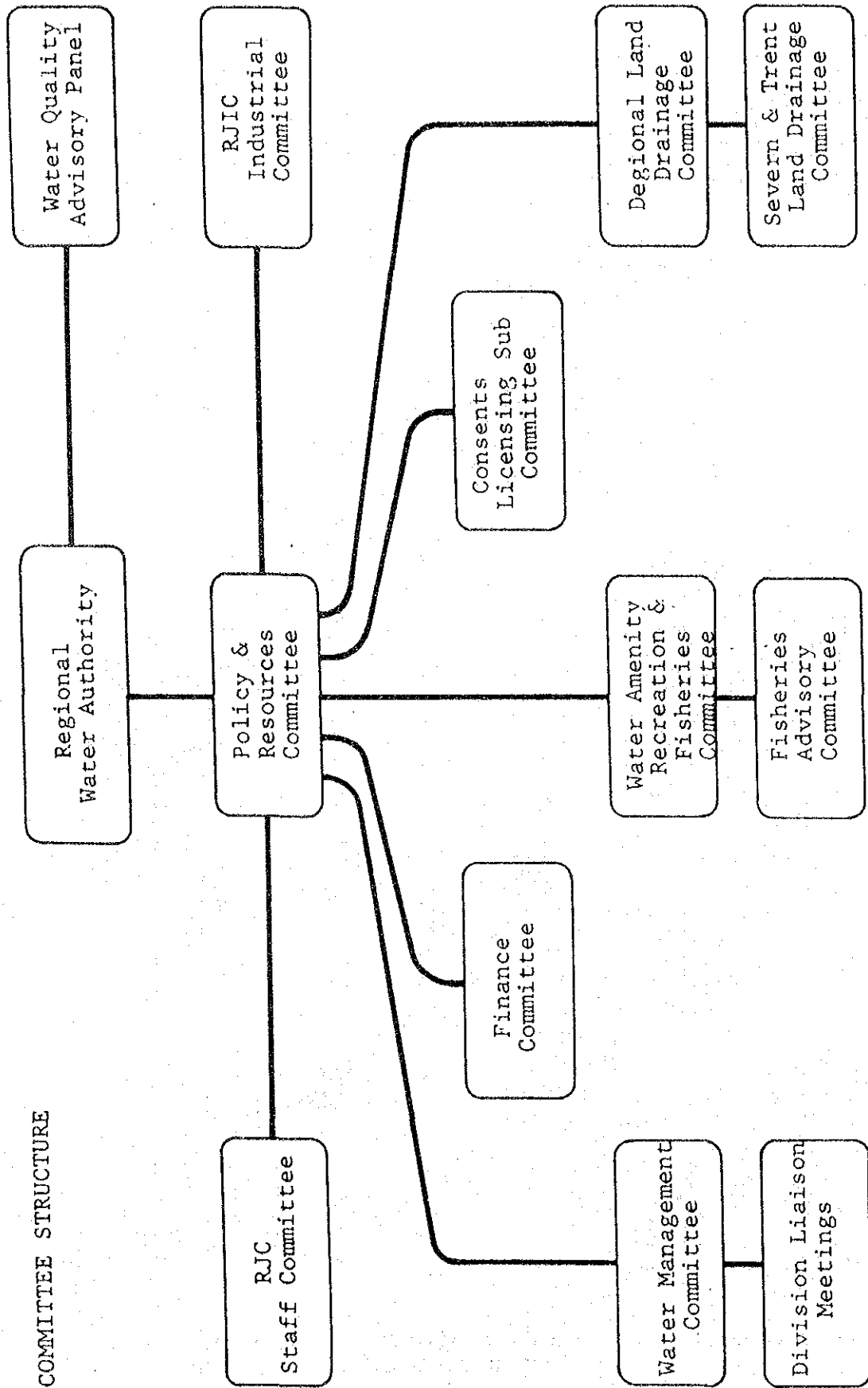


Fig. 8-9 (1/2) ORGANIZACION DE OPERACION DE LA AUTORIDAD DEL AGUA EN SEVERN TREND

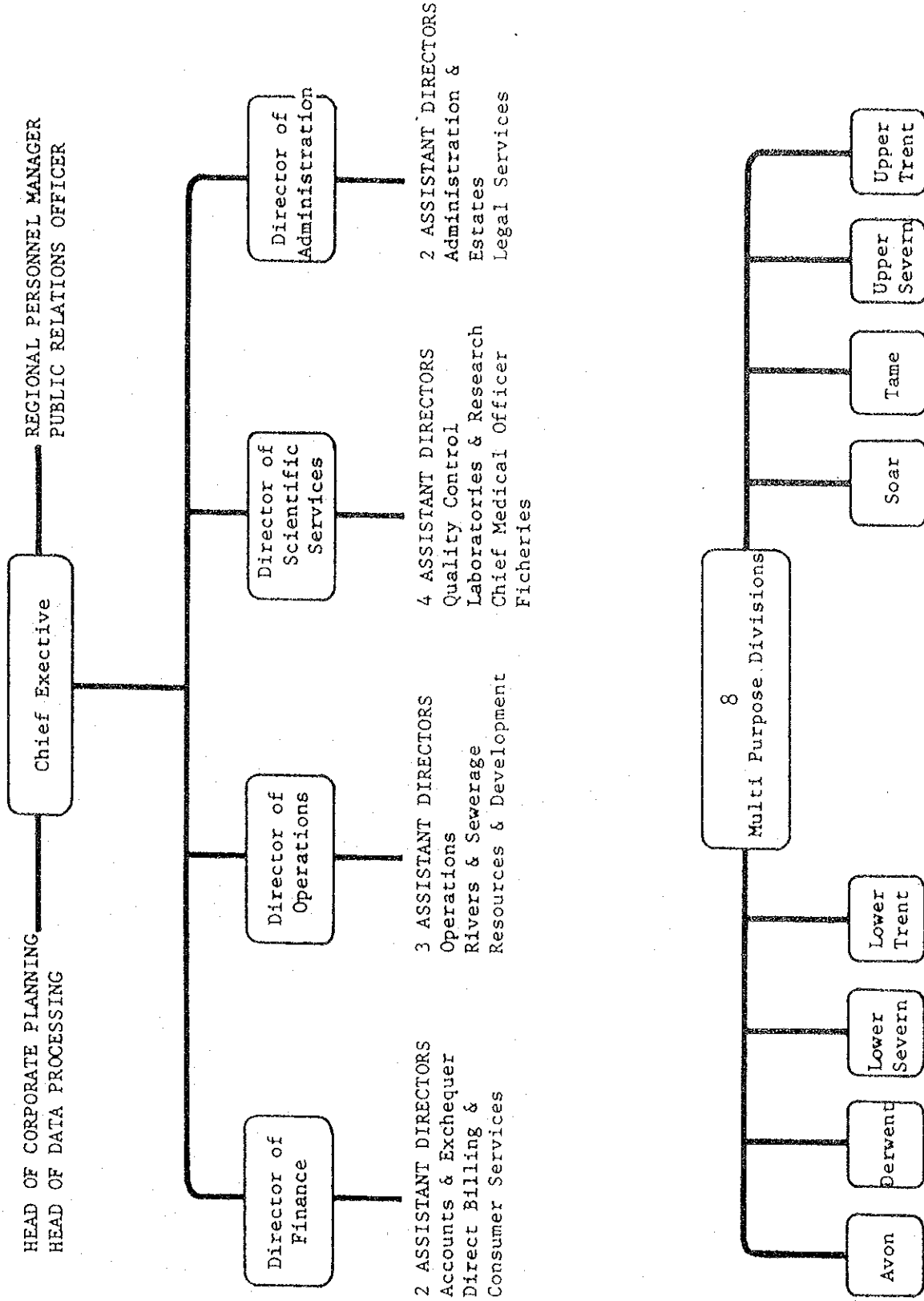


Fig. 8-9 (2/2) ORGANIZACION DE OPERACION DE LA AUTORIDAD DEL AGUA EN SEVERN TREND

A D J U N T O 1

MIEMBROS DEL EQUIPO DE ESTUDIO, CONTRAPARTES Y
COMITE CONSULTOR

Study Team and Counterparts

Team Leader	Mr. Mitsuo Igarashi	Ing. Sergio Hernandez
Assistant Team Leader (River Planning)	Mr. Yoshiharu Matsumoto	Ing. Jorge Ruano
Geologist/Sabo Planner	Mr. Ryohei Imamura Mr. Takashi Watanabe	Ing. Carlos P. Lemmerhofer
Hydrologist/ Hydraulic Engr.	Mr. Susumu Heishi	Ing. Sergio Hernandez
River Structure Engr.	Mr. Katsuhiko Ikari Mr. Yasuhiko Uchida	Ing. Jorge Ruano
Sabo Structure Engr.	Mr. Takashi Watanabe Mr. Makoto Ishihara	Ing. Carlos P. Lemmerhofer
Construction Schedule and Cost Estimator	Mr. Yoshii Motonori	Ing. Jorge Ruano
River Administrative System Specialist	Mr. Hiroshi Inoue	Ing. Jorge Ruano
Project Economist	Mr. Kinichi Ohno	Ing. Sergio Hernandez
Survey Engr.	Mr. Mikio Tsutsumi Mr. Hiroshi Ando	Ing. Carlos P. Lemmerhofer

Advisory Committee

Head	:	Mr. Kenichi Sasaki
Member	:	Mr. Shigekiyo Tabata
Member	:	Mr. Hidehiro Sadakane
Member	:	Mr. Hiroshi Ikeya
Member	:	Mr. Koichi Uzuka
Coordinator	:	Mr. Hitonori Ono

A D J U N T O 2

MINUTES OF MEETING ON FLOOD CONTROL PROJECT

Re: Discussion on Inception Report.

Joint meeting between the Government of Guatemala and the JICA survey team was held on August 22, 1983 at the conference room of Instituto Geográfico Militar.

The JICA survey team submitted 30 copies of the Inception Reports to the Government of Guatemala in compliance with the scope of works and explained such items described in the report as basic concept of the project, plan of operation, etc. The contents of report was agreed upon by and between the both parties.

The list of attendants was attached hereto.



Ing. Guillermo Ponce Navarro
General Director of CAMINOS



Mitsuo Igarashi
Team Leader
JICA SURVEY TEAM

LIST OF ATTENDANTE

Ingeniero Guillermo Ponce Navarro	Director of CAMINOS
Coronel Liones Aníbal Rivera Morataya	Director of IGM
Ingeniero Eddy Sánchez	Sub-Director of INSIVUMEH
Ingeniero René González	Sub-Director of IGM
Ingeniero Jorge Rubén Ruano	Chief of Dranaige Section, CAMINOS
Ingeniero Carlos P. Lemmenhofer	Technical Supervisor, IGM
Ingeniero Sergio I. Hernández F.	Chief of Hydrology Section, INSIVUMEH
Mr. Yasuhisa Suzuki	Embassy of Japan
Mr. Shigekiyo Tabata	Member of Advisory Committee
Mr. Hidehiro Sadakane	Member of Advisory Committee
Mr. Yukihiisa Sakurada	Member of Advisory Committee
Mr. Mitsuo Igarashi	Team Leader
Mr. Yoshiharu Matsumoto	River Engineer
Mr. Ryohei Imamura	Geologist & Saboplanner
Mr. Susumu Heishi	Hydrologist
Mr. Kinichi Ono	Project Economist
Mr. Kenji Ikuno	Intepreter

Vanue: Instituto Geográfico Militar
Date: August 22, 1983

MINUTES OF MEETING
ON
FLOOD CONTROL PROJECT

Ref.: Discussion on Progress Report.

Joint meeting between the Government of Guatemala and the JICA Study Team was held on December 12, 1983 at the Conference Room of Instituto Geográfico Militar.

The JICA Study Team submitted 30 copies of the Progress Report to the Government of Guatemala in compliance with the Scope of Works, and made the explanation on such items described in the report as project background present conditions, concept of the project, progress of the study and so on. After vital discussion, all items of the Report were agreed upon by and between both parties.

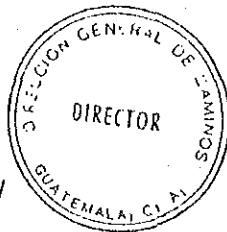
Among the items discussed, the following were specified.

- 1) The JICA Study Team informed the Government of Guatemala of the classification concerning the significance of the assets and/or areas to be protected, especially areas of A, which are described in the Progress Report. The appropriate classification will be made based on the more detailed information as well as the planning criteria.
- 2) Request of the study on reforestation plan was made by the Government of Guatemala. The Government of Guatemala understood that the study on reforestation plan is not included in the project on the ground that effectiveness of the reforestation will not be expected within the life of this project. However, the JICA Study Team will make a study on necessity of the reforestation and its finding will be included in the study report, as a recommendation.
- 3) The Government of Guatemala made a question, which the downstream area of the confluence of Cristobal River with Pantaleon River is

not included in the study area. It is confirmed that captioned area is not included and the study area is subject to the Scope of Work which was agreed on April 15, 1983.

- 4) Such technical questions as sedimentation in the river channel and estimation method of flood discharge were made by the Government of Guatemala. For these matters, the JICA Study Team convinced the Government of Guatemala through a brief explanation.

The list of attendants was attached hereto.



[Handwritten signature of Guillermo Ponca Navarro]

Ing. Guillermo Ponca Navarro
General Director of CAMINOS

[Handwritten signature of Mitsuo Agarashi]

Mitsuo Agarashi
Team Leader
JICA STUDY TEAM

DIRECCION GENERAL DE CAMINOS
SECRETARIA GENERAL

EX DIC. 12 1983 EX

RECIBIDO A LAS 15:30
No. HOJA: _____ R.C. _____

[Handwritten initials]

ATTENDANT LIST

Ingeniero Guillermo Ponce Navarro	Director of CAMINOS
Ingeniero Estuardo Velásquez V.	Director of INSIVUMEN
Ingeniero René González	Sub-Director Técnico IGM
Ingeniero Jorge Ruano	Chief of Drainage Section CAMINOS
Ingeniero Sergio Hernández	Chief of Hydrology Section INSIVUMEN
Ingeniero Carlos Lemmerhofer	Technical Supervisor IGM
Mr. Yasuhisa Suzuki	Embassy of Japan
Mr. Kenichi Sasaki	Chairman of Advisory Committee
Mr. Koichi Uzuka	Member of Advisory Committee
Mr. Yukihiisa Sakurada	Member of Advisory Committee
Mr. Mitsuo Igarashi	Team Leader of JICA STUDY TEAM
Mr. Yoshiharu Matsumoto	Asst. Team Leader of JICA STUDY TEAM
Mr. Takashi Watanabe	Member of JICA STUDY TEAM
Mr. Katsuhiko Ikari	Member of JICA STUDY TEAM
Mr. Hiroshi Inoue	Member of JICA STUDY TEAM
Mr. Hiroshi Ando	Member of JICA STUDY TEAM
Mr. Kenji Ikuno	Member of JICA STUDY TEAM

Venue: Instituto Geográfico Militar

Date : December 12, 1983

MINUTES OF MEETING
ON
FLOOD CONTROL PROJECT

Ref.: Discussion on Interim Report

Joint meeting between the Government of Guatemala and the JICA Study Team was held on March 7, 1984 at the Conference Room of Instituto Geografico Militar.

The JICA Study Team submitted 30 copies of the Interim Report to the Government of Guatemala in compliance with the Scope of Works, and made the explanation on such items described in the report as concept of the study, formulation of the long-term plan, river administration system, recommendation and so on.

After the discussion, all items of the Report were agreed upon by and between both parties.

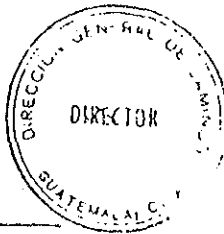
Among the items discussed, the following were specified.


- 1) The JICA Study Team informed the Government of Guatemala of the result concerning the classification of the significance of the assets and/or areas to be protected and the adequacy was confirmed.
- 2) The JICA Study Team recommended that the study of urgent plan in the next stage should be carried out by putting on the emphasis on the protection of the road and railway bridges and by having the project scale lowered. And the Government of Guatemala agreed the implementation of the study under the said conditions.


- 3) With regards to the construction schedule for the long-term plan described in the report, the JICA Study Team explained that the schedule might be modified due to the urgent study result in the next stage.

The list of attendants was attached hereto.

Guatemala, March 7, 1984




Ing. Guillermo Ponce Navarro
General Director of CAMINOS


Mitsuo Igarashi
Team Leader
JICA STUDY TEAM

ATTENDANT LIST

Ingeniero Estuardo Velásquez V.
Coronel Jorge Mario Castillo
Ingeniero Ernesto Castillo
Ingeniero Jorge Ruano
Ingeniero Carlos Lemmerhofer
Mr. Yasuhisa Suzuki
Mr. Kenichi Sasaki
Mr. Yuji Okazaki
Mr. Mitsuo Igarashi
Mr. Yoshiharu Matsumoto
Mr. Susumu Heishi
Mr. Takashi Watanabe
Mr. Katsuhiro Ikari
Mr. Motomori Yoshii
Mr. Kinichi Ohno
Mr. Kenji Ikuno

Director of INSIVUMEH
Director of IGM
Sub-Director of CAMINOS
Chief of Drainage Section CAMINOS
Technical Supervisor IGM
Embassy of Japan
Chairman of Advisory Committee
Member of Advisory Committee
Team Leader of JICA STUDY TEAM
Asst. Team Leader of JICA STUDY TEAM
Member of JICA STUDY TEAM
Member of JICA STUDY TEAM
Member of JICA STUDY TEAM
Member of JICA STUDY TEAM
Member of JICA STUDY TEAM
Member of JICA STUDY TEAM

Vanue: Instituto Geográfico Militar
Date : March 7, 1984

MINUTES OF MEETING
ON
FLOOD CONTROL PROJECT

Ref.: DISCUSSION ON PLAN OF OPERATION

Joint meeting between the Government of Guatemala and the JICA Study Team was held on June 28, 1984 at the Conference Room of Instituto Geográfico Militar.

The JICA Study Team submitted 30 copies of report on plan of operation in this study period and made the explanation on that described in the report and, after the discussion, all items of the report were agreed upon by and between both parties.

In this connection, the result of preliminary study for the selection of suitable project scale on urgent flood control plan were informed.

The following were specified among the views stated in this meeting.


- 1) In response to the question on the land use, the JICA Study Team informed that the socio-economic impacts for the future land use caused by implementation of this project might be considered, if any.
- 2) The adequacy of the principle for the selection of the suitable project scale was reconfirmed.

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In this connection, the JICA Study Team informed the Government of Guatemala of the possibility of alternative plans beside the plan described in the report and also the possibility of the modification of construction cost.

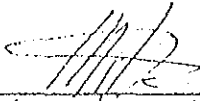
The list of attendants was attached hereto.

Guatemala, June 28, 1984



Ing. Guillermo Ponce
General Director of CAMINOS





Mitsuo Igarashi
Team Leader
JICA STUDY TEAM

ATTENDANCE LIST

Ingeniero Guillermo Ponce Navarro	Director of CAMINOS
Mr. Eddy Sánchez	Sub-Director INSIVUMEH
Ingeniero Jorge Ruano	Chief of Drainage Section CAMINOS
Ingeniero Sergio Hernández	Chief of Hydrology Section INSIVUMEH
Ingeniero Carlos P. Lemmerhofer	Technical Supervisor IGM
Mr. Hitonori Ono	Member of Advisory Committee
Mr. Mitsuo Igarashi	Team Leader of JICA STUDY TEAM
Mr. Yoshiharu Matsumoto	Asst. Team Leader of JICA STUDY TEAM
Mr. Takashi Watanabe	Member of JICA STUDY TEAM
Mr. Susumu Heishi	Member of JICA STUDY TEAM
Mr. Yasuhiko Uchida	Member of JICA STUDY TEAM
Mr. Motonori Yoshii	Member of JICA STUDY TEAM
Mr. Kinichi Ohno	Member of JICA STUDY TEAM
Mr. Kenji Ikuno	Member of JICA STUDY TEAM

Vanue: Instituto Geográfico Militar

Date : June 28, 1984

MINUTES OF MEETING
ON
FLOOD CONTROL PROJECT

Ref: DISCUSSION ON DRAFT FINAL REPORT

Joint meeting between the Government of Guatemala and the JICA Study Team with an attendance of the Advisory Committee was held on October 31, 1984 at the conference room of Instituto Geográfico Militar.

The JICA Study Team submitted 30 copies of the Draft Final Reports to the Government of Guatemala in compliance with the scope of work and made the explanation on such items described in the report as formulation of the long-term plan and urgent plan, project evaluation, recommendation and so on.

After the discussion, all items of the Report were basically agreed upon by and between both parties.

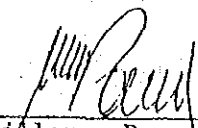
The Government of Guatemala also agreed, in response to the request by the JICA Team, that the comments in writing would be informed the JICA Team, if any, within about one month after the joint meeting.

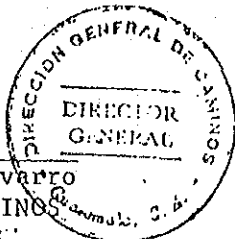
Finally, the Government of Guatemala expressed the gratitude for the technical cooperation by JICA together with the confirmation of their activities so far including their undertaking which were mentioned in the Scope of Works of this project.


.../

The list of attendants was attached hereto.

Guatemala, October 31st, 1984


Ing. Guillermo Ponce Navarro
General Director of CAMINO




Mitsuo Igarashi
Team Leader
JICA STUDY TEAM

ATTENDANCE LIST

Ingeniero Guillermo Ponce Navarro	Director of CAMINOS
Ingeniero Estuardo Velasquez	Director of INSIVUMEH
Ingeniero Jorge Ruano	Chief of Drainage Section of CAMINOS
Ingeniero Sergio Hernandez	Chief of Hydrology Section of INSIVUMEH
Ingeniero Carlos P. Lemmerhofer	Technical Supervisor of IGM
Mr. Kenichi Sasaki	Chairman of JICA Advisory Committee
Mr. Hiroshi Ikeya	Member of JICA Advisory Committee
Mr. Hitonori Ono	JICA HDQ
Mr. Mitsuo Igarashi	Team Leader of JICA STUDY TEAM
Mr. Yoshiharu Matsumoto	Asst. Team Leader of JICA STUDY TEAM
Mr. Yasuhiko Uchida	Member of JICA STUDY TEAM
Mr. Motonori Yoshii	Member of JICA STUDY TEAM
Mr. Makoto Ishihara	Member of JICA STUDY TEAM
Mr. Masatake Okuno	Member of JICA STUDY TEAM
Mr. Kenji Ikuno	Member of JICA STUDY TEAM

Vanue: Instituto Geografico Militar

Date : October 31st, 1984

