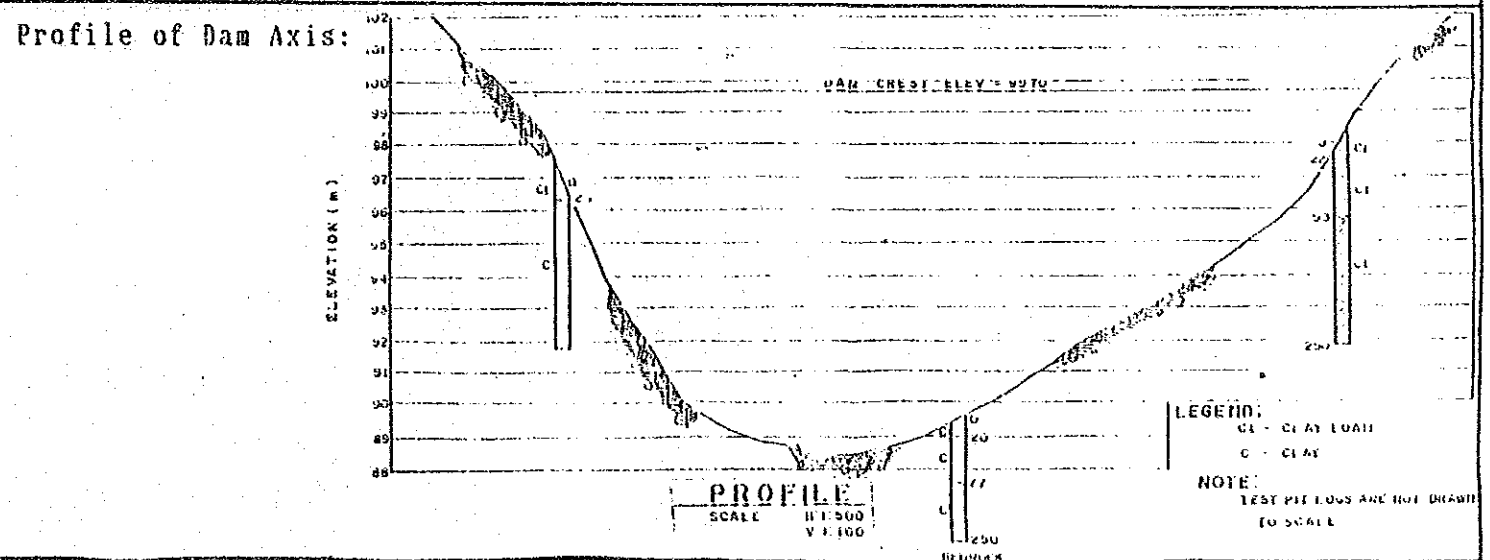
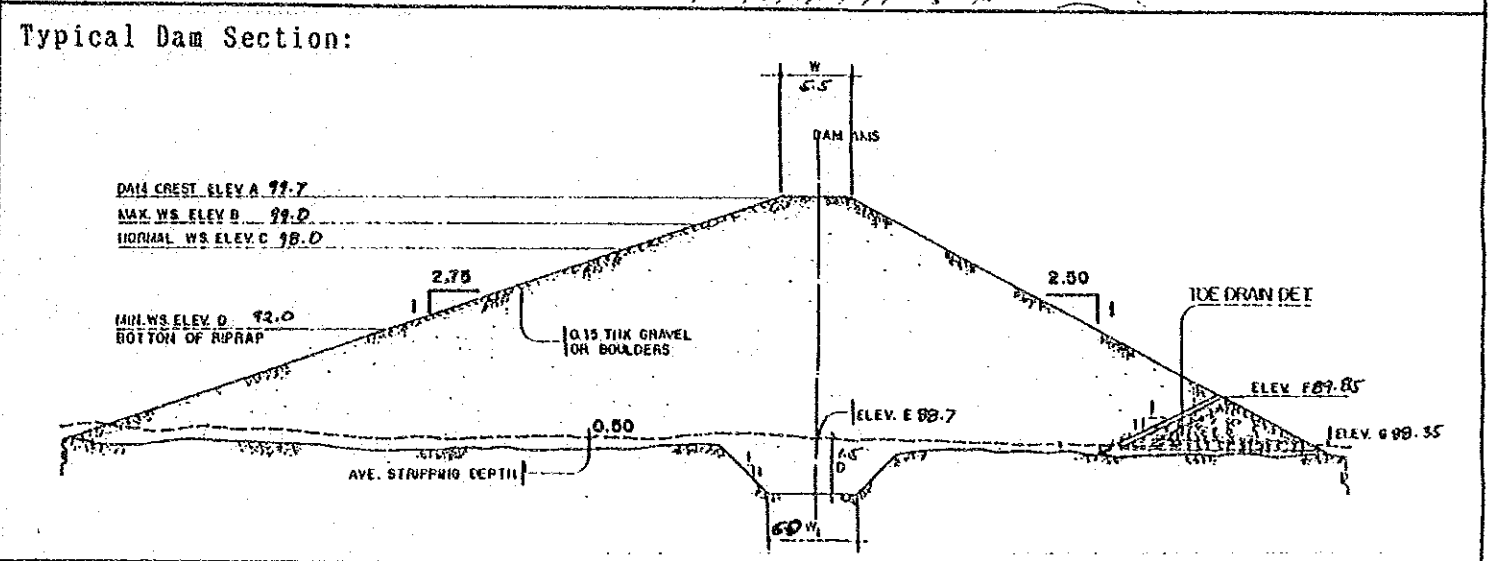
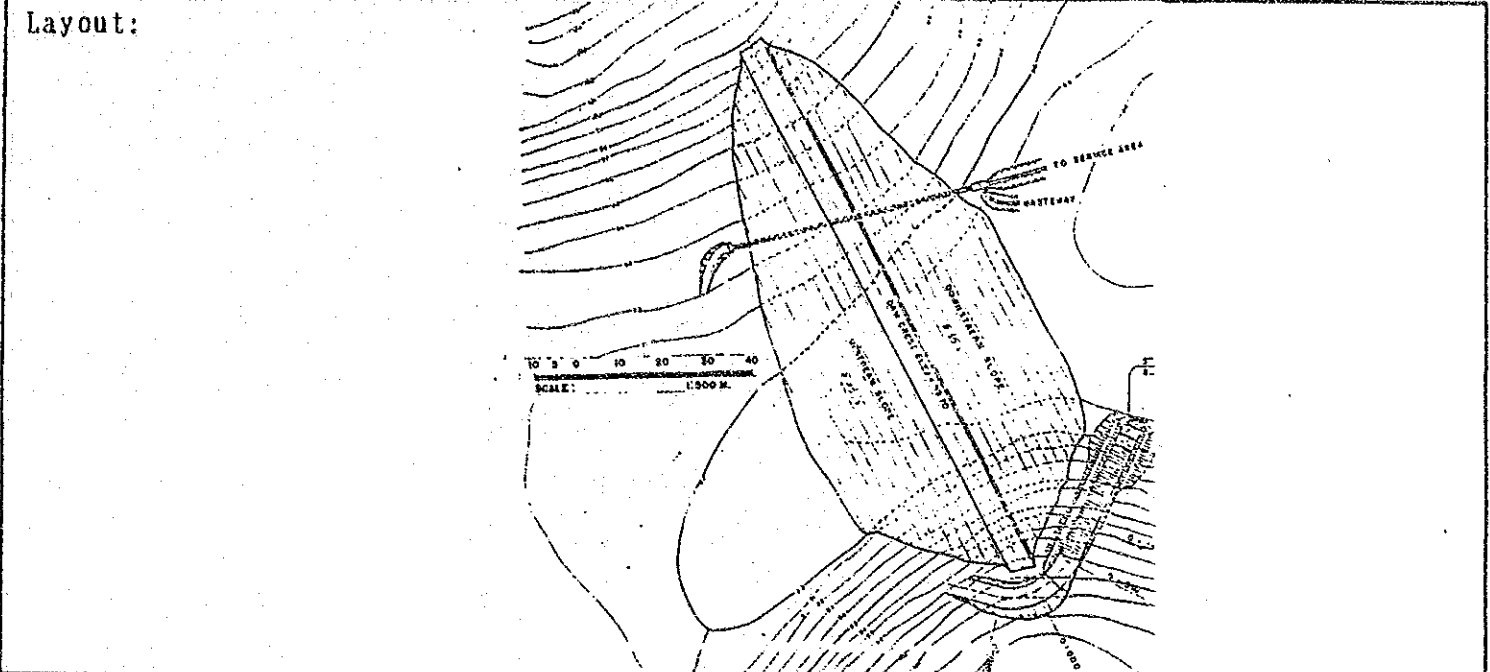


SWIM PROJECT PROFILE		File No. : 136
Regist. No. : Agency No. : BSWM-47	Name: SAN MARCOS SWIP	
Region: 2	Province: QUIRINO	Municipality: CABARRQUIS
Present Status: 1. Pre-F/S() ② F/S(1985) ③ D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type	HOMOGENEOUS EARTHFILL
	Dam Height	11 m
	Effective Storage Capacity	111,035 m ³
	Embankment Volume	30,000 m ³
	Design Flood Discharge	12 m ³ /sec.
2. Irrigation	Irrigation Area	70 ha
3. Mini-hydropower	Installed Capacity	0 kW
4. Watershed Man.	Watershed Protection Area	80 ha
5. Water Supply	Design Supply Capacity	0 m ³ /day
6. Inland Fishery	Annual Production	6 ton/year
Technical Assessment:		
1. Survey and Investigation:		
Depth of test pit or auger boring is not enough.		
Bearing capacity and permeability are not measured.		
Available volume for dam embankment shall be studied before construction.		
2. Planning		
Environmental conservation plan is not formulated.		
3. Design		
Depth of core trench shall be modified during construction.		
Stability of upstream slope of the dam shall be checked.		
Weir shall be provided in the spillway.		
4. Operation and Maintenance		
Not studied.		
Funds Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 23.6 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 3,205	Implementation Schedule:
Dam	: 1,553	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 720	Construction: Jul. 1996; 6 months
Watershed Protection	: 5,478	
5. Grand Total	: 5,478	



Note: Silty clay with 2.5 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 137
Regist. No. : Agency No. : BSWM-48	Name : SAN FRANCISCO SWIP	
Region : 2	Province : QUIRINO	Municipality : AGLIPAY
Present Status: 1. Pre-F/S() (2) F/S(1985) (3) D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHPILL
	: Dam Height	: 10 m
	: Effective Storage Capacity	: 391,700 m ³
	: Embankment Volume	: 26,000 m ³
	: Design Flood Discharge	: 18 m ³ /sec.
2. Irrigation	: Irrigation Area	: 100 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 120 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 19 ton/year
Technical Assessment:		
1. Survey and Investigation:		
Depth of test pit or auger boring is not enough.		
Bearing capacity and permeability are not measured.		
Available volume for dam embankment shall be studied before construction.		
2. Planning		
Environmental conservation plan is not formulated.		
3. Design		
Depth of core trench shall be modified during construction.		
Stability of upstream slope of the dam shall be checked.		
Weir shall be provided in the spillway.		
4. Operation and Maintenance		
Not studied.		
Funds Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 34.4 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 3,094	Implementation Schedule:
Dam	: 2,219	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,740	Construction: Jul. 1994; 6 months
Watershed Protection	: 7,053	
5. Grand Total	: 7,053	

Layout:

SITE DEVELOPMENT PLAN
SCALE: 1:5000

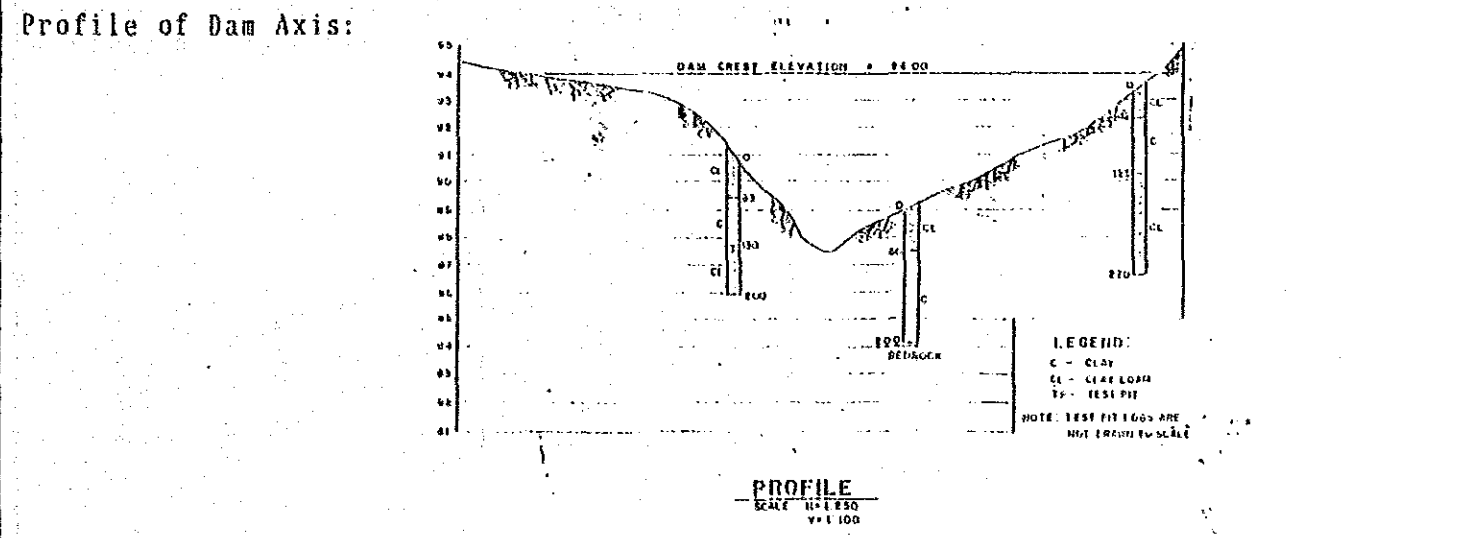
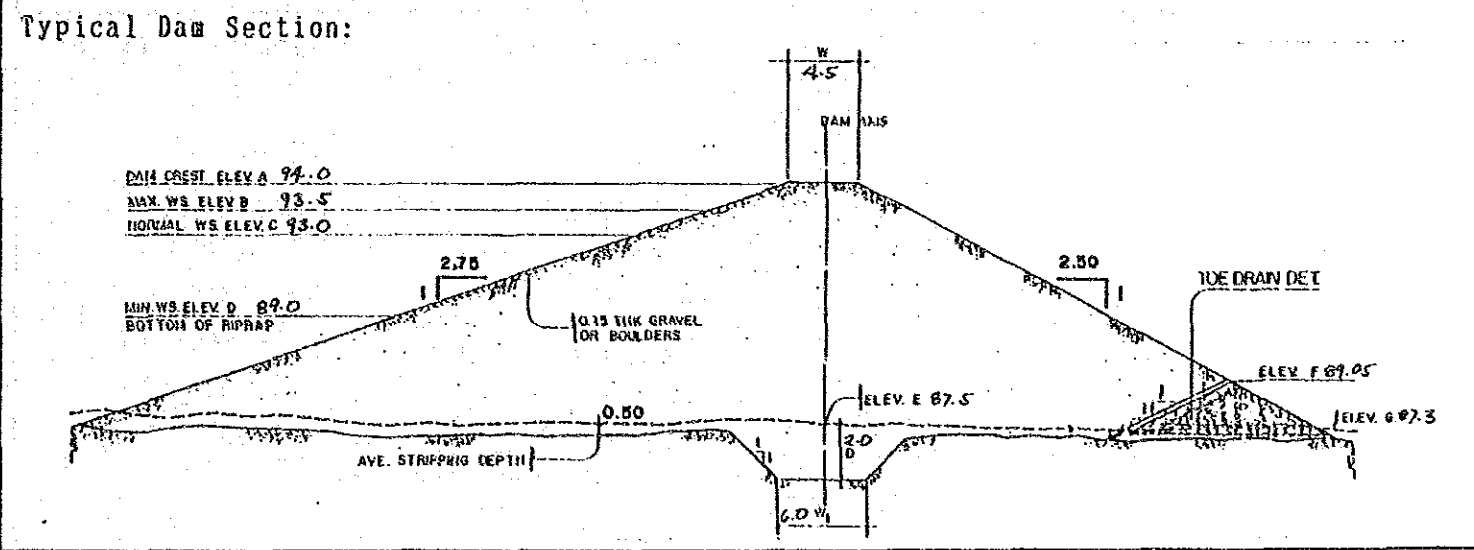
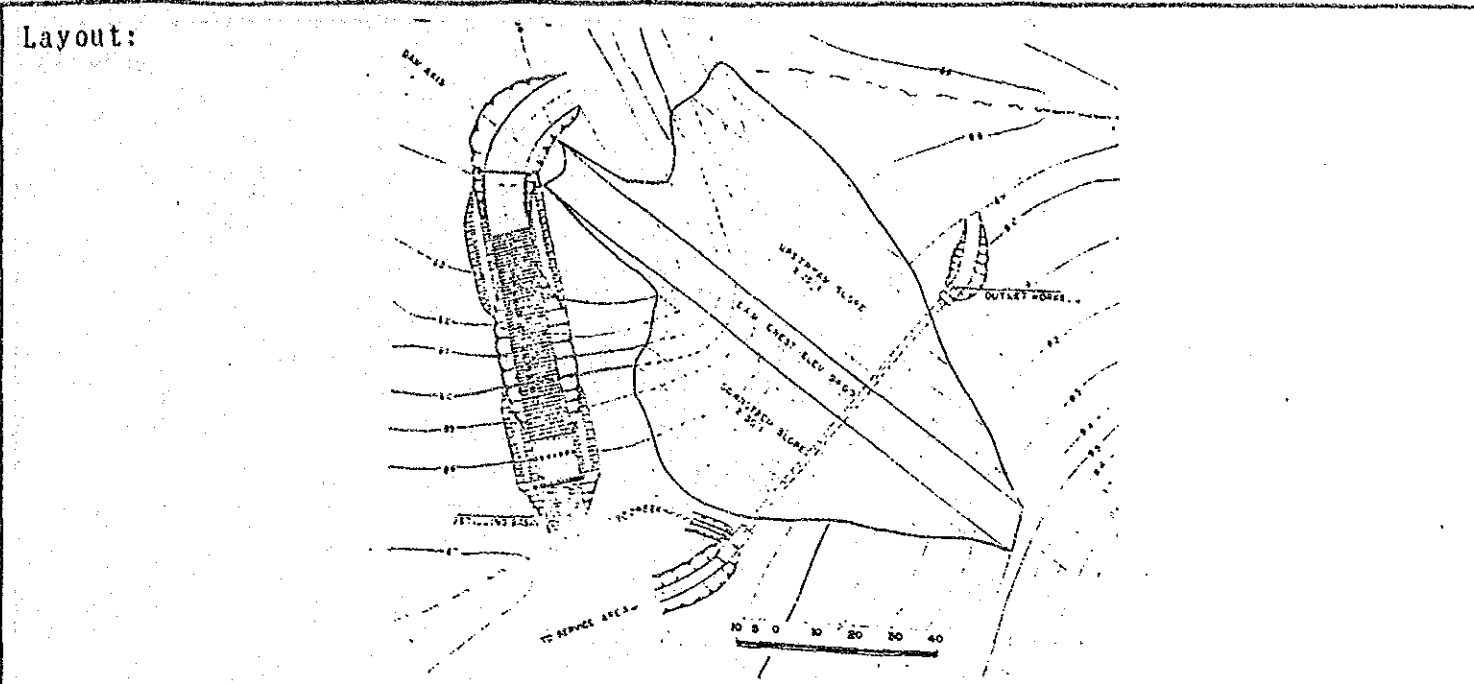
Typical Dam Section:

Profile of Dam Axis:

PROFILE
SCALE: V=1:100 H=1:500

Note:
Silty clay with 2.0 m depth is piled up on the sand stone and shale.

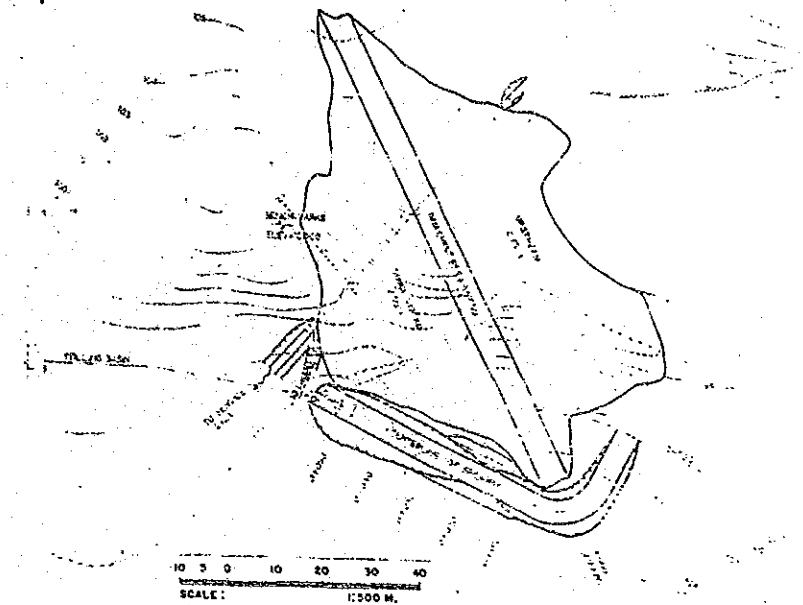
SWIM PROJECT PROFILE		File No. : 138
Regist. No. : Agency No. : BSWM-49	Name: STA FILOMENA SWIP	
Region: 2	Province: ISABELA	Municipality: SAN MARIANO
Present Status: 1. Pre-F/S() (2) F/S(1985) (3) D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 7 m
	: Effective Storage Capacity	: 58,040 m ³
	: Embankment Volume	: 4,333 m ³
	: Design Flood Discharge	: 4 m ³ /sec.
2. Irrigation	: Irrigation Area	: 15 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 12 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 5 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Funding Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 28.9 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 805	Implementation Schedule:
Dam	: 333	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 291	Construction: Jul. 1992; 6 months
Watershed Protection	: 1,428	
5. Grand Total	: 1,428	



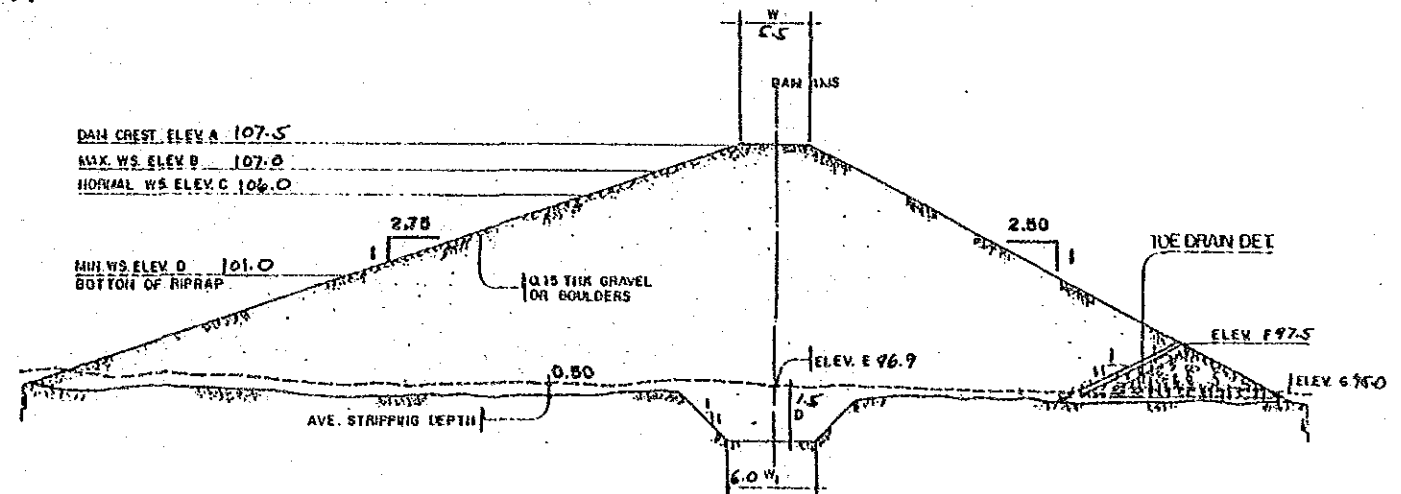
Note: Silty clay with 2.0 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 139
Regist. No. : Agency No. : BSWM-50	Name: OLD SAN MARIANO SWIP	
Region: 2	Province: ISABELA	Municipality: SAN MARIANO
Present Status: 1. Pre-F/S() (2) F/S(1985) (3) D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHPILL 11 m 46,480 m ³ 18,000 m ³ 9 m ³ /sec.
2. Irrigation	Irrigation Area :	20 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	36 ha
5. Water Supply	Design Supply Capacity :	0 m ³ /day
6. Inland Fishery	Annual Production :	3 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway. Center line of the spillway shall be shifted to left side.		
4. Operation and Maintenance Not studied.		
Funding Requirement: (1,000 Pesos)		Project Evaluation:
1. Review :	0	EIRR : 12.5 %
2. Feasibility Study :	0	Priority Rating:
3. Detailed Design :	0	Group : B
4. Construction :		Implementation Schedule:
Dam :	2,111	review : -
Irrigation :	444	F/S : Completed
Mini-Hydropower :	0	D/D : Completed
Water Supply :	0	Construction: Jul. 1996; 6 months
Watershed Protection :	875	
5. Grand Total :	3,429	

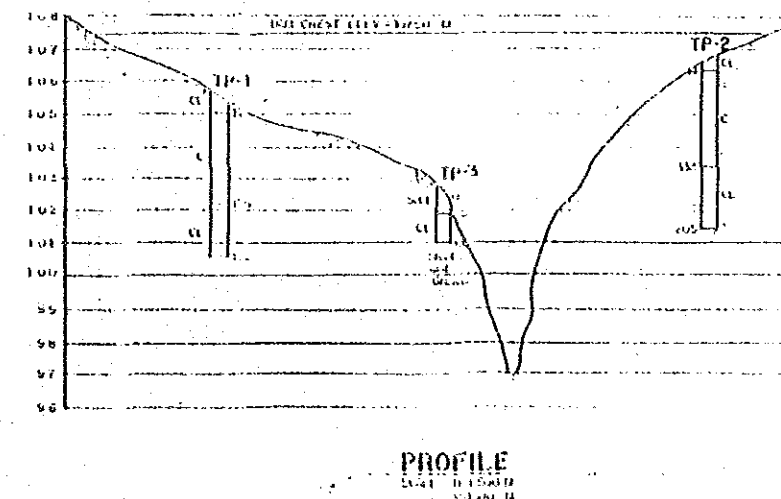
Layout:



Typical Dam Section:



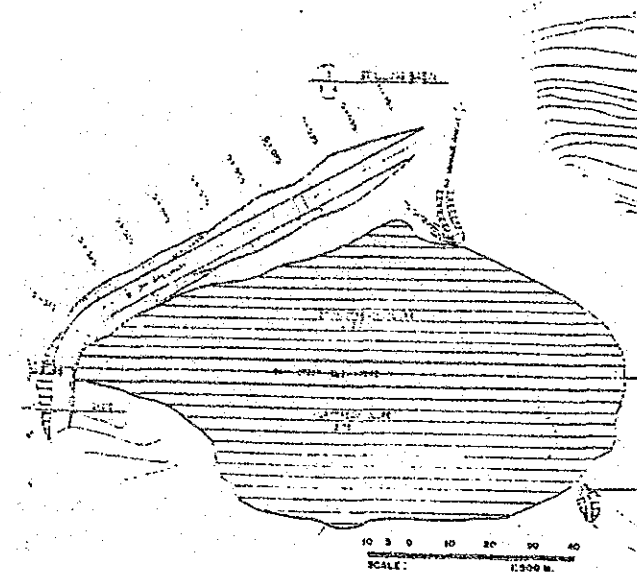
Profile of Dam Axis:



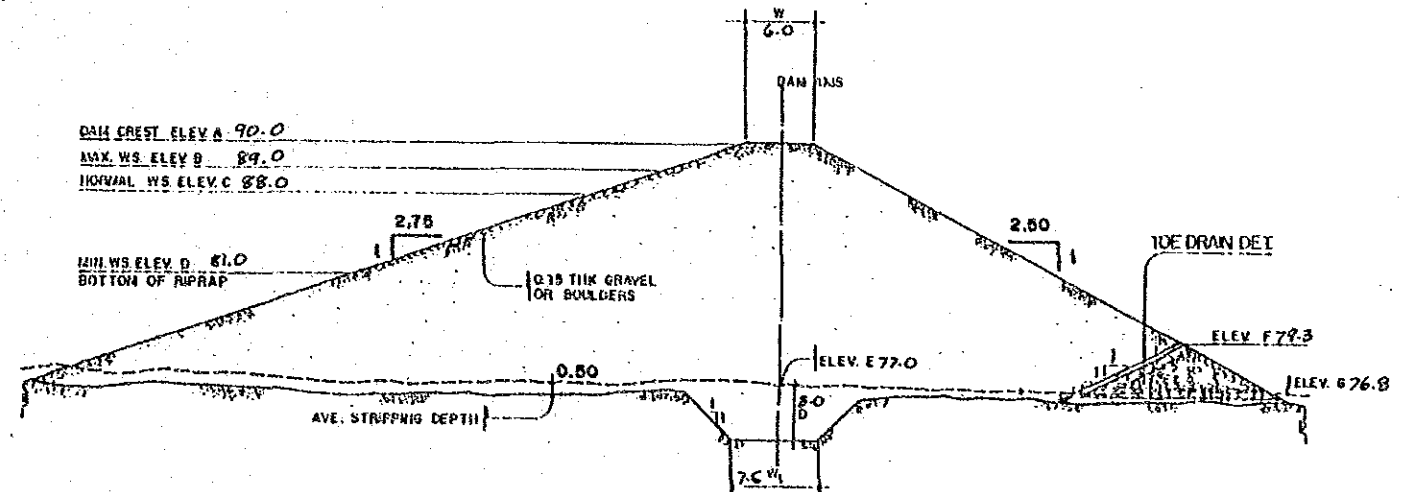
Note: silty clay with 2.0 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 140
Regist. No. : Agency No. : BSWM-51	Name : YEBAN SWIP	
Region : 2	Province : ISABELA	Municipality : BENITO SOLIVEN
Present Status: 1. Pre-F/S() ② F/S(1985) ③ D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type	HOMOGENEOUS EARTHFILL
	Dam Height	13 m
	Effective Storage Capacity	213,300 m ³
	Embankment Volume	41,000 m ³
	Design Flood Discharge	14 m ³ /sec.
2. Irrigation	Irrigation Area	55 ha
3. Mini-hydropower	Installed Capacity	0 kW
4. Watershed Man.	Watershed Protection Area	54 ha
5. Water Supply	Design Supply Capacity	0 m ³ /day
6. Inland Fishery	Annual Production	8 ton/year
Technical Assessment:		
1. Survey and Investigation: Topographic maps for reservoir site shall be prepared with 1 m contour at a scale of 1/2,000 or more. Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Freeboard is not enough. Weir shall be provided in the spillway. Center line of the spillway shall be shifted to left side.		
4. Operation and Maintenance Not studied.		
Food Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 45	EIRR : 17.3 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	:	Implementation Schedule:
Dam	: 4,514	Review : 1991
Irrigation	: 1,220	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1992; 6 months
Watershed Protection	: 1,313	
5. Grand Total	: 7,093	

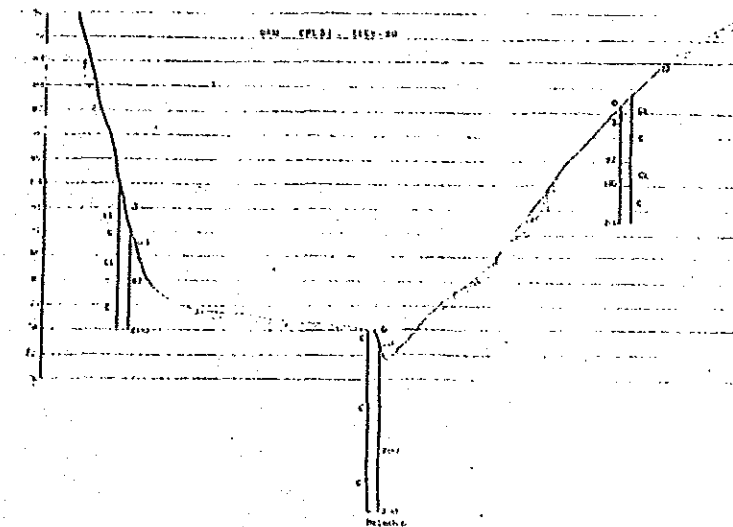
Layout:



Typical Dam Section:



Profile of Dam Axis:

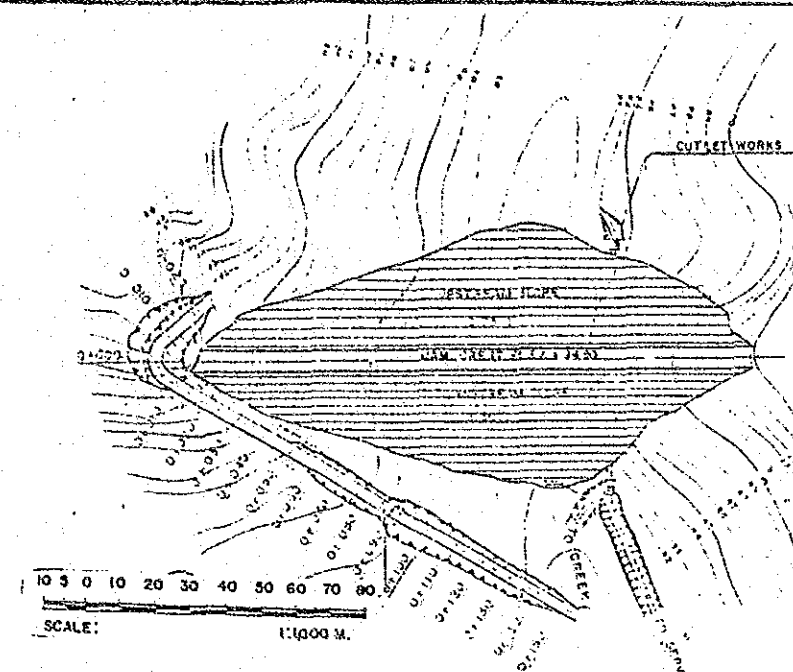


Note:

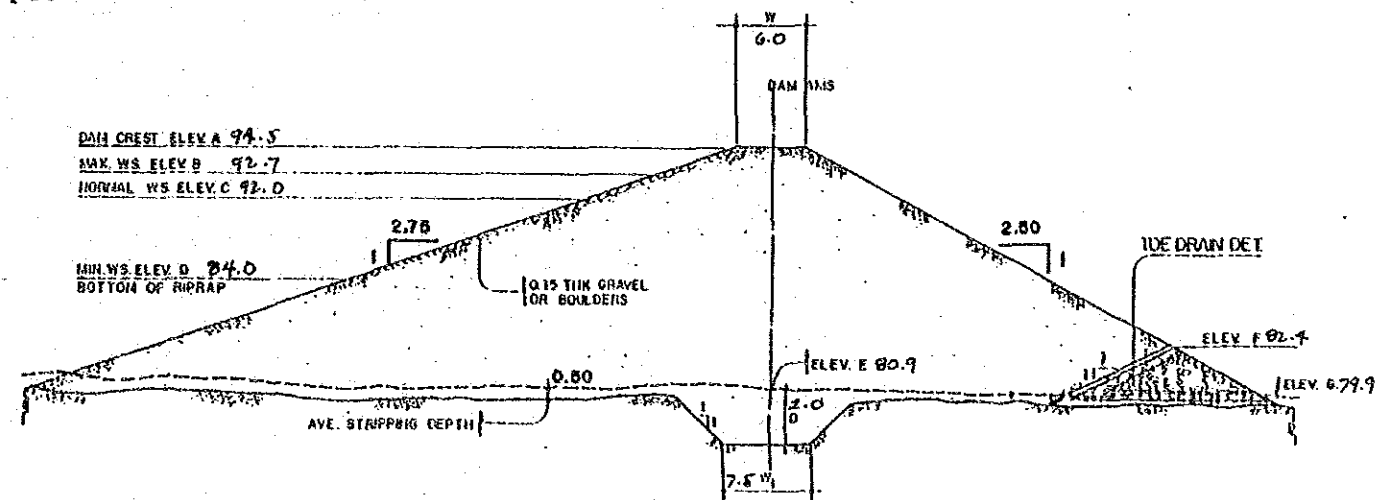
Silty clay with 3.0 m depth is piled up on the sand stone and shale. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 141
Regist. No. : Agency No. : BSWM-52	Name: MINALLO SWIP	
Region: 2	Province: ISABELA	Municipality: NAGUILIAN
Present Status: 1. Pre-F/S() ② F/S(1985) ③ D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 14 m
	: Effective Storage Capacity	: 365,775 m ³
	: Embankment Volume	: 46,000 m ³
	: Design Flood Discharge	: 12 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 42 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 16 ton/year
Technical Assessment:		
1. Survey and Investigation: Topographic maps for dam site shall be prepared with 1 m contour at a scale of 1/500 or more. Depth of test pit or boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Funds Requirement: (1,000 Pesos)		Project Evaluation:
Review	: 0	EIRR : 10.5 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : B
Construction	: 7,489	Implementation Schedule:
Dam	: 1,108	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,019	Construction: Jul. 1996; 9 months
Watershed Protection	: 0	
Grand Total	: 9,617	

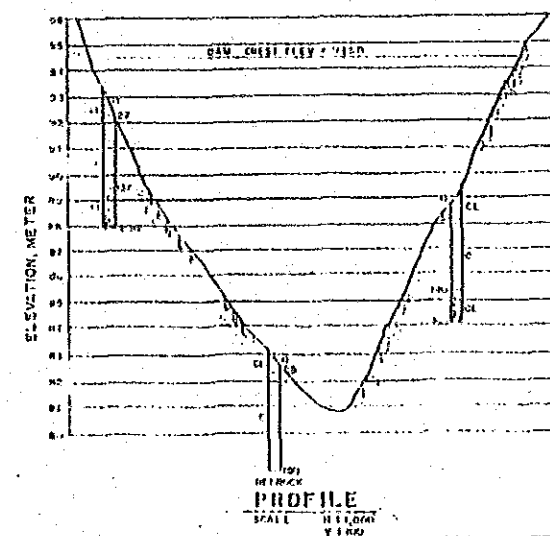
Layout:



Typical Dam Section:



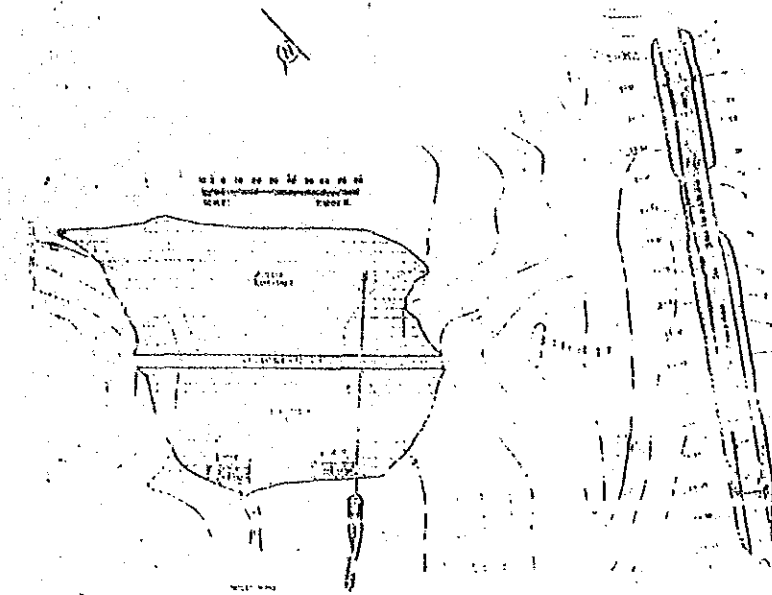
Profile of Dam Axis:



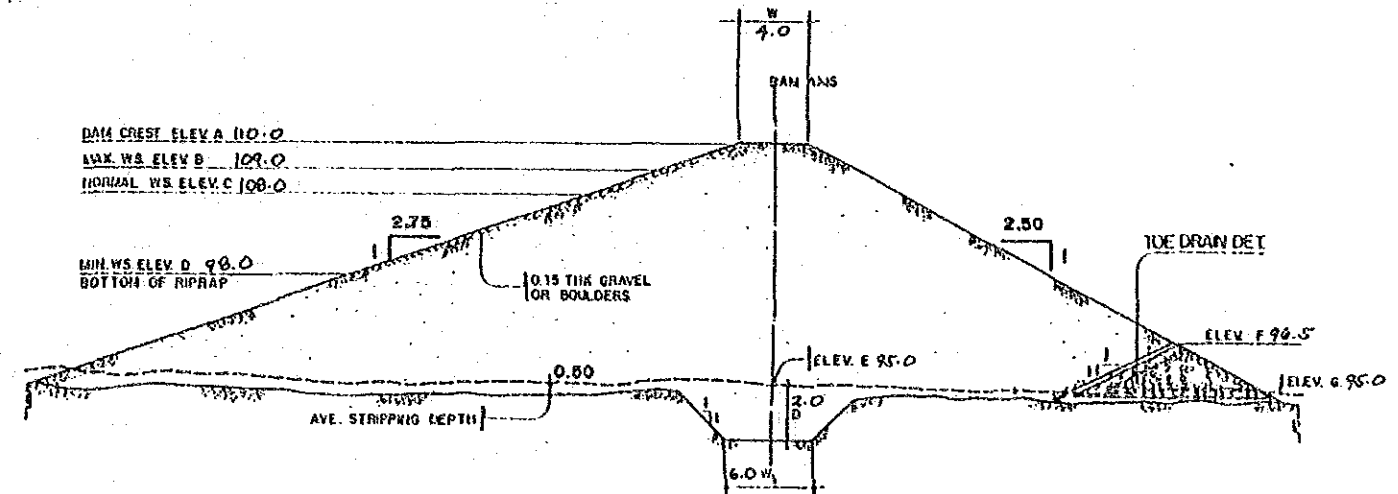
Note: silty clay with 2.0 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 142
Regist. No. : Agency No. : BSWM-56	Name: AFUSING DAGA SWIP	
Region: 2	Province: CAGAYAN	Municipality: ALCALA
Present Status: 1. Pro-F/S() ② F/S(1987) ③ D/D(1987)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : HOMOGENEOUS EARTHFILL	
	Dam Height : 14 m	
	Effective Storage Capacity : 421,600 m ³	
	Embankment Volume : 50,000 m ³	
	Design Flood Discharge : 21 m ³ /sec.	
2. Irrigation	Irrigation Area : 80 ha	
3. Mini-hydropower	Installed Capacity : 0 kW	
4. Watershed Man.	Watershed Protection Area : 78 ha	
5. Water Supply	Design Supply Capacity : 0 m ³ /day	
6. Inland Fishery	Annual Production : 13 ton/year	
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Cost Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 13.9 %
2. Feasibility Study	: 0	
3. Detailed Design	: 0	Priority Rating:
4. Construction	: 0	Group : B
Dam	: 5,481	Implementation Schedule:
Irrigation	: 1,775	Review : -
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 0	D/D : Completed
Watershed Protection	: 1,896	Construction: Jul. 1988; 9 months
5. Grand Total	: 9,152	

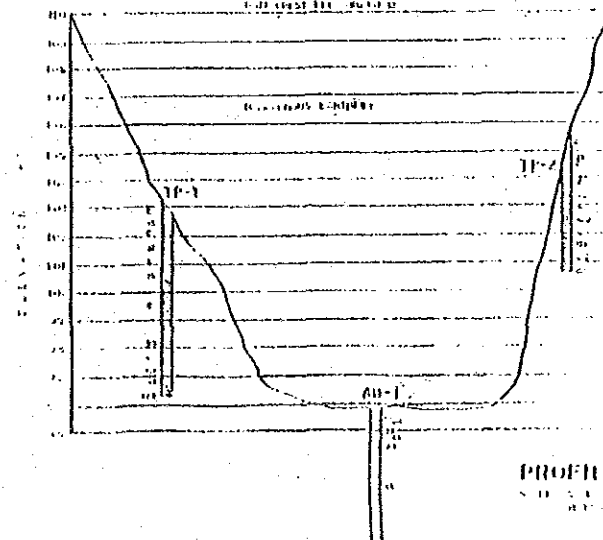
Layout:



Typical Dam Section:

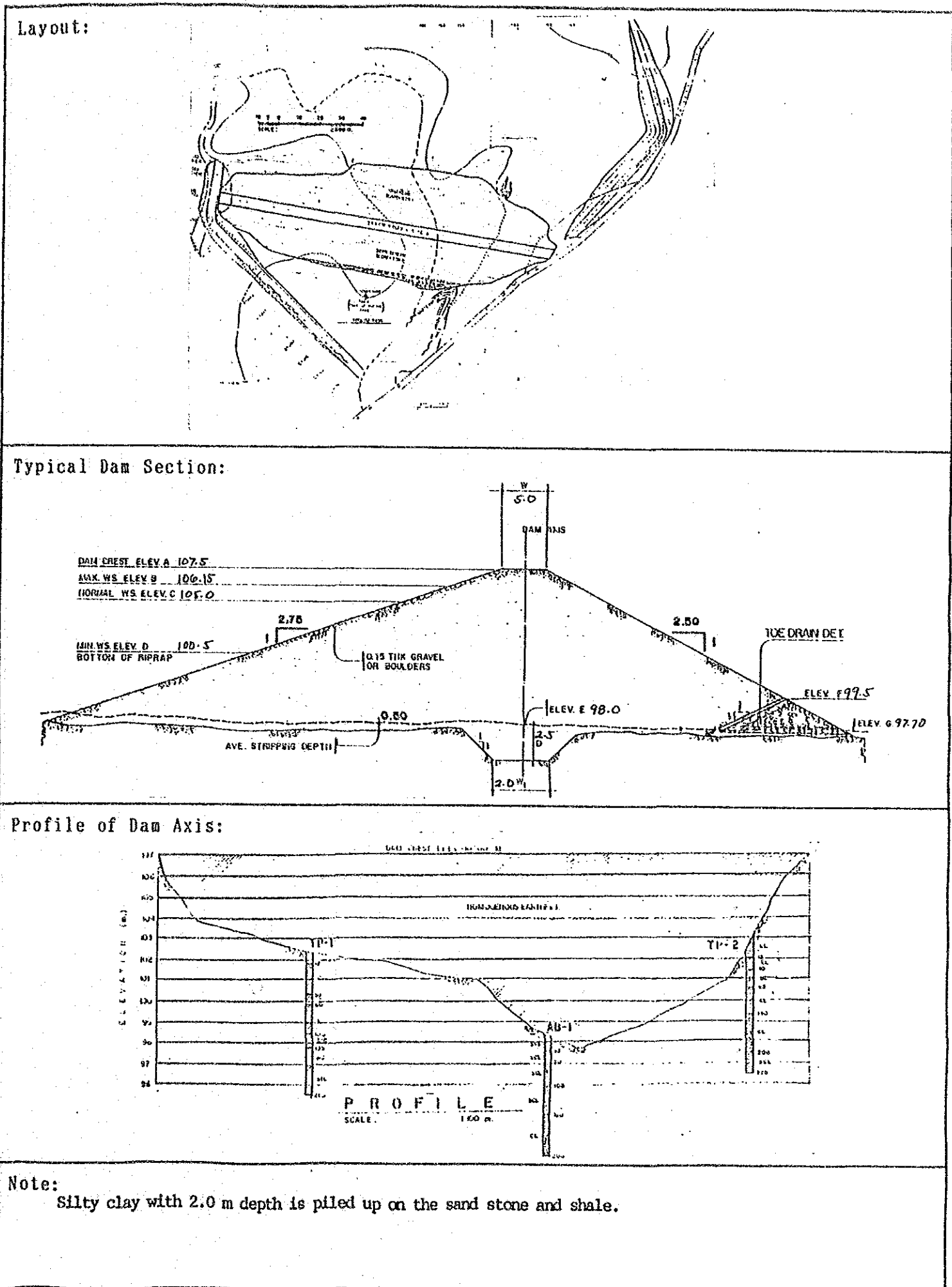


Profile of Dam Axis:



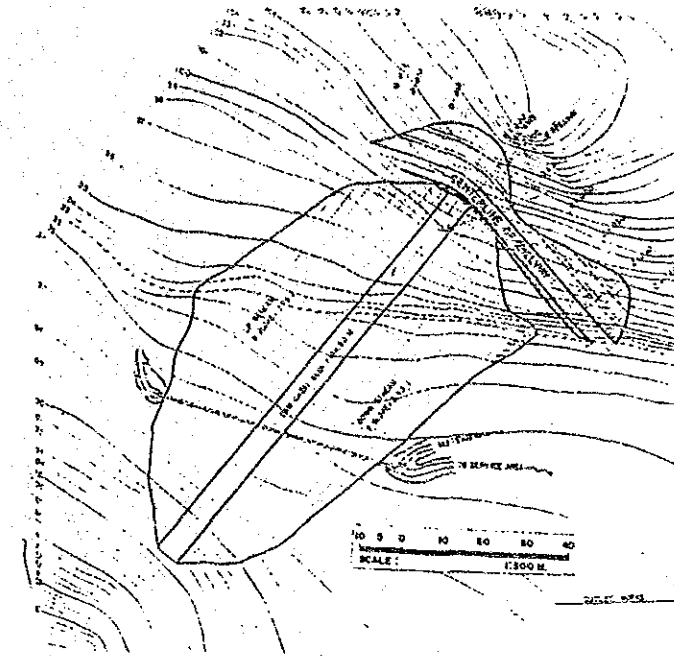
Note: silty clay with 2.0 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 143
Regist. No. : Agency No. : BSWM-57	Name : MAASIN SWIP	
Region : 2	Province : CAGAYAN	Municipality : ALCALA
Present Status: 1. Pre-F/S() ② F/S(1987) ③ D/D(1987)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 10 m 136,000 m ³ 23,625 m ³ 16 m ³ /sec.
2. Irrigation	Irrigation Area :	43 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	54 ha
5. Water Supply	Design Supply Capacity :	0 m ³ /day
6. Inland Fishery	Annual Production :	8 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Center line of the spillway shall be shifted to right side. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
Review :	0	EIRR : 17.4 %
Feasibility Study :	0	Priority Rating:
Detailed Design :	0	Group : B
Construction :		Implementation Schedule:
Dam :	2,712	Review : -
Irrigation :	954	F/S : Completed
Mini-Hydropower :	0	D/D : Completed
Water Supply :	0	Construction: Jul. 1997; 6 months
Watershed Protection :	1,313	
Grand Total :	4,979	

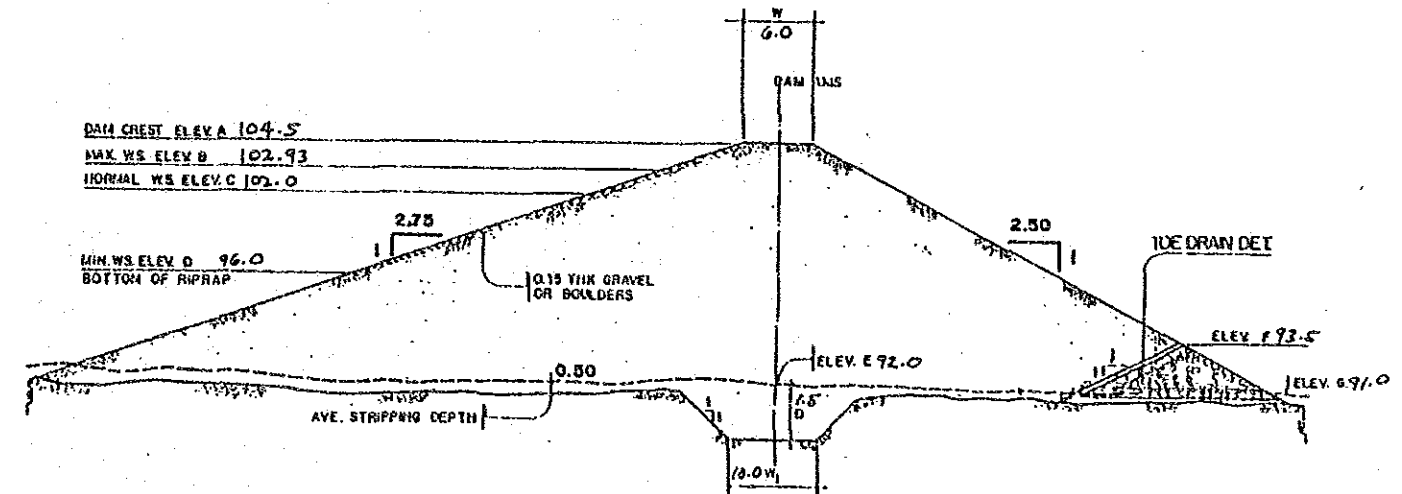


SWIM PROJECT PROFILE		File No. : 144
Regist. No. : Agency No. : BSWM-58	Name : CARALLANGAN SWIP	
Region : 2	Province : CAGAYAN	Municipality : ALCALA
Present Status : 1. Pro-F/S() ② F/S(1987) ③ D/D(1987)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 13 m 133,412 m ³ 30,000 m ³ 10 m ³ /sec.
2. Irrigation	Irrigation Area :	38 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	24 ha
5. Water Supply	Design Supply Capacity :	0 m ³ /day
6. Inland Fishery	Annual Production :	6 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall bUp stream slope of dam shall be checked by stability Center line of the spillway shall be shifted to left side.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review :	0	EIRR : 12.5 %
2. Feasibility Study :	0	Priority Rating:
3. Detailed Design :	0	Group : B
4. Construction :		Implementation Schedule:
Dam :	3,304	Review : -
Irrigation :	843	F/S : Completed
Mini-Hydropower :	0	D/D : Completed
Water Supply :	0	Construction: Jul. 1988; 9 months
Watershed Protection :	584	
5. Grand Total :	4,731	

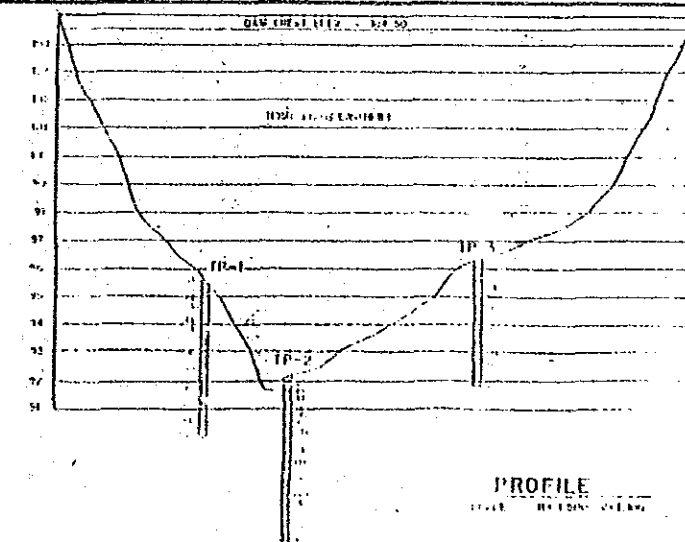
Layout:



Typical Dam Section:



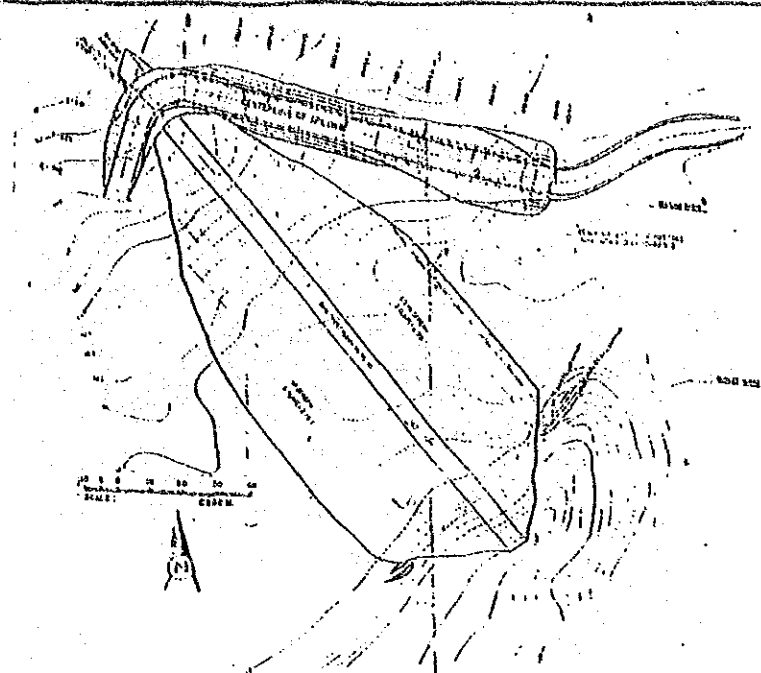
Profile of Dam Axis:



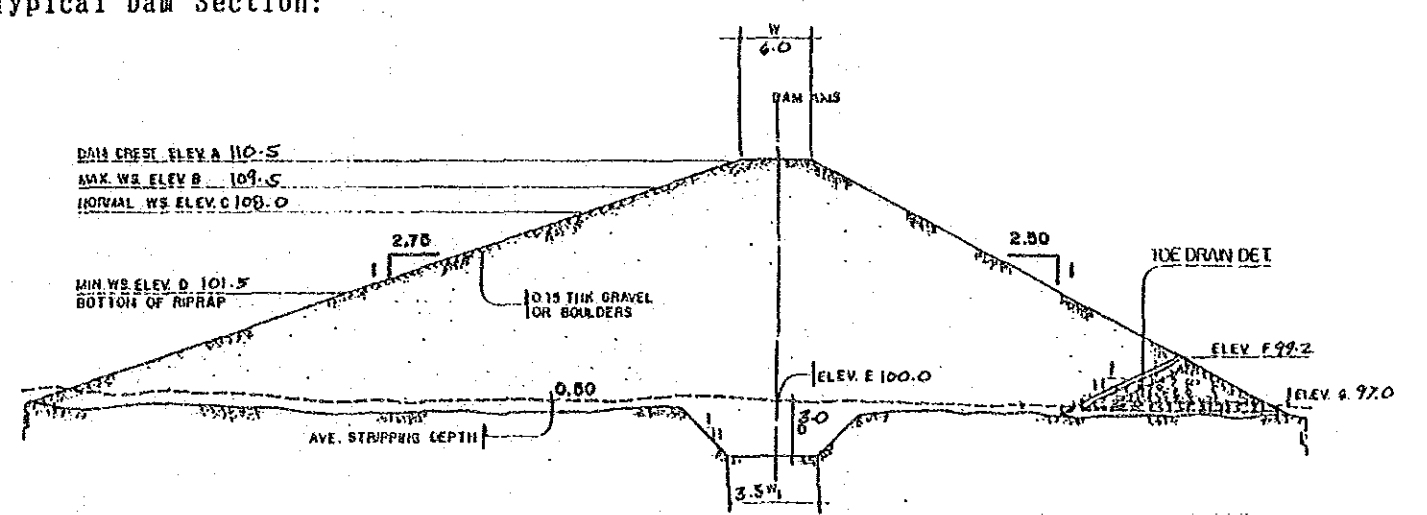
Note: Silty clay with 3.0 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 145
Regist. No. : Agency No. : BSWM-59	Name : GANZANO SWIP	
Region : 2	Province : CAGAYAN	Municipality : GATTARAN
Present Status: 1. Pre-F/S() ② F/S(1987) ③ D/D(1987)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 13 m 250,369 m ³ 50,740 m ³ 21 m ³ /sec.
2. Irrigation	Irrigation Area :	40 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	60 ha
5. Water Supply	Design Supply Capacity :	0 m ³ /day
6. Inland Fishery	Annual Production :	10 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway. Center line of the spillway shall be shifted to left side.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review :	0	EIRR : 17.6 %
2. Feasibility Study :	0	Priority Rating:
3. Detailed Design :	0	Group : A
4. Construction :		Implementation Schedule:
Dam :	5,575	Review : -
Irrigation :	888	F/S : Completed
Mini-Hydropower :	0	D/D : Completed
Water Supply :	0	Construction: Jan. 1985; 6 months
Watershed Protection :	1,417	
5. Grand Total :	7,880	

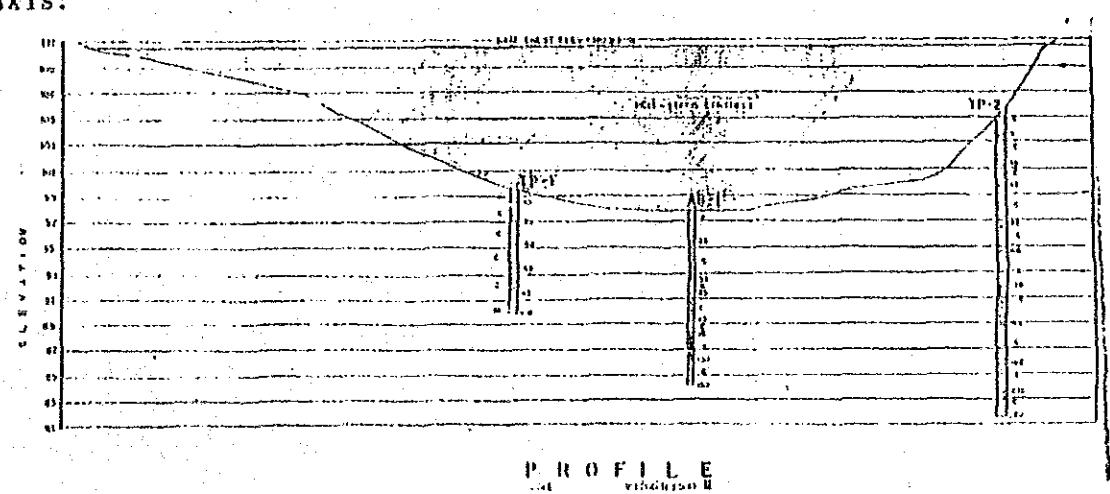
Layout:



Typical Dam Section:



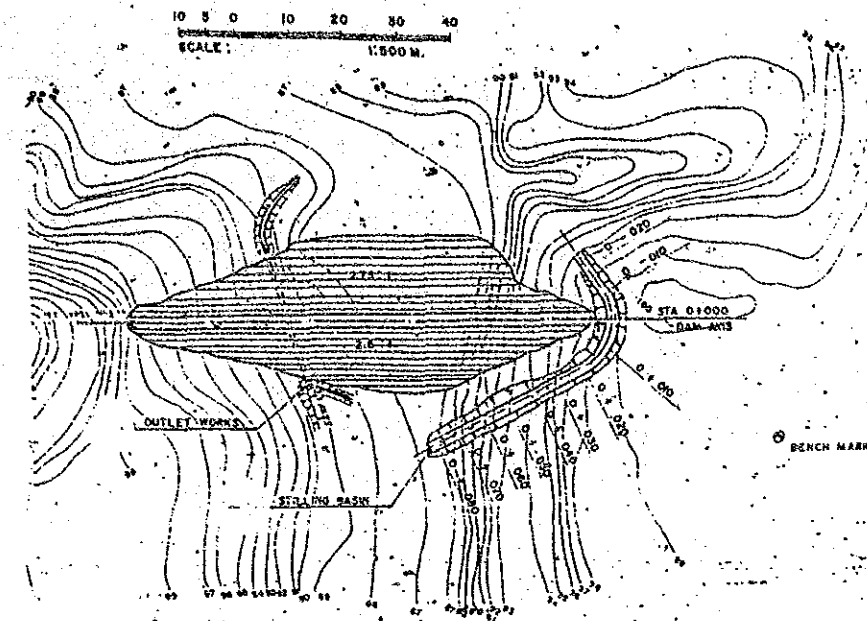
Profile of Dam Axis:



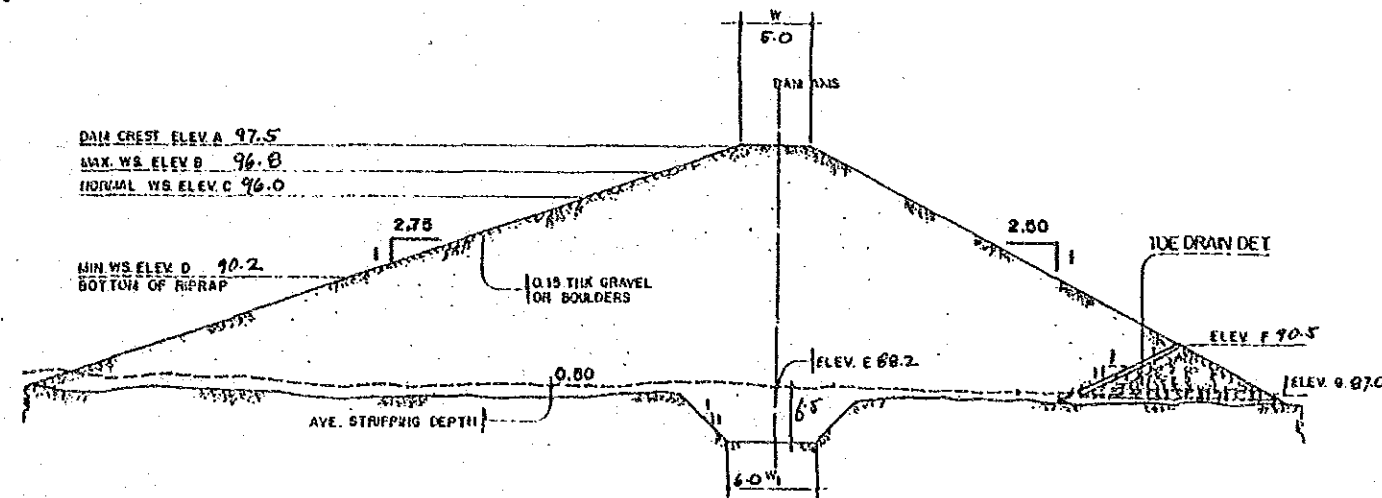
Note:
Silty clay with 2.5 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 146
Regist. No. : Agency No. : BSWM-60	Name : SAMPALOC SWIP	
Region : 3	Province : NUEVA ECIJA	Municipality : TALUGTUG
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type	HOMOGENEOUS EARTHFILL
	Dam Height	11 m
	Effective Storage Capacity	279,354 m ³
	Embankment Volume	34,510 m ³
	Design Flood Discharge	15 m ³ /sec.
2. Irrigation	Irrigation Area	100 ha
3. Mini-hydropower	Installed Capacity	0 kW
4. Watershed Man.	Watershed Protection Area	48 ha
5. Water Supply	Design Supply Capacity	0 m ³ /day
6. Inland Fishery	Annual Production	11 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Freeboard is not enough. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 55	EIRR : 16.2 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction		Implementation Schedule:
Dam	: 4,777	Review : 1993
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1994; 6 months
Watershed Protection	: 1,167	
5. Grand Total	: 8,219	

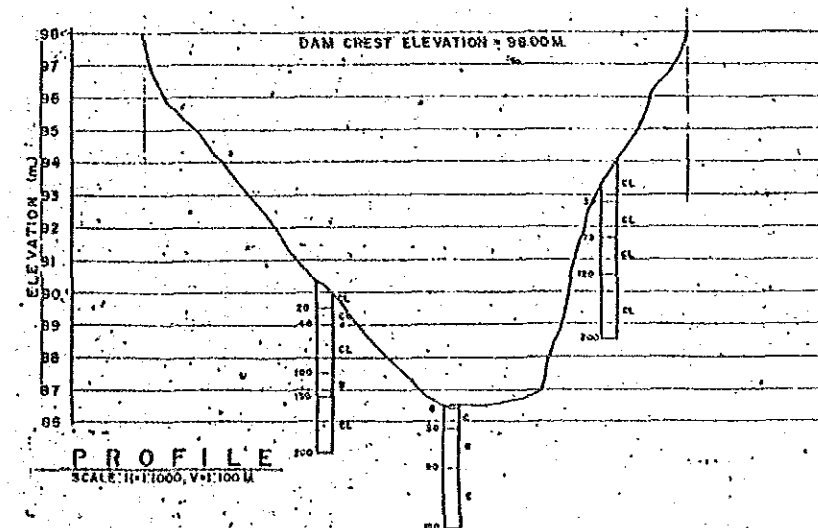
Layout:



Typical Dam Section:



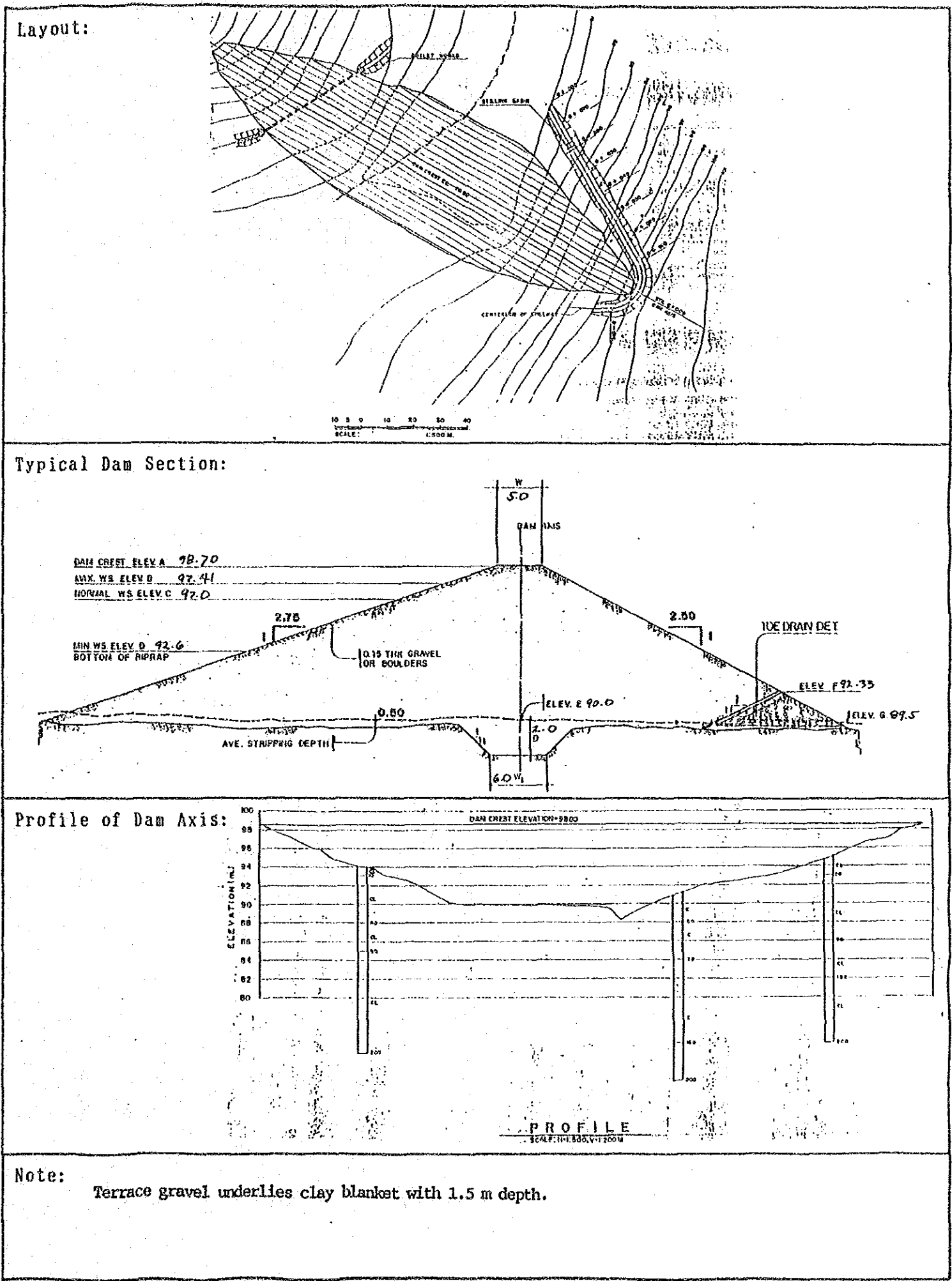
Profile of Dam Axis:



Note:

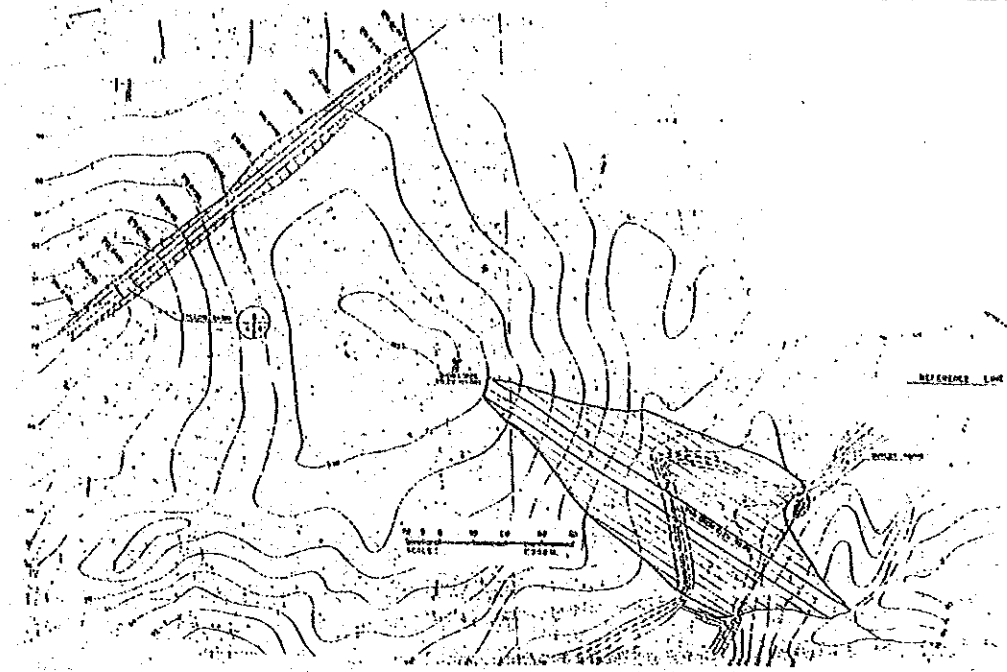
Terrace gravel underlies clay blanket with 2.0 m depth. Investigation on the clay distribution as natural blanket shall be carried out. Additional 1.0 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 147
Regist. No. : Agency No. : BSWM-61	Name: STO. DOMINGO SWIP	
Region: 3	Province: NUEVA ECIJA	Municipality: LUPAO
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENBOUS EARTHFILL 9 m 395,424 m ³ 26,080 m ³ 13 m ³ /sec.
2. Irrigation	Irrigation Area :	100 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	48 ha
5. Water Supply	Design Supply Capacity :	0 m ³ /day
6. Inland Fishery	Annual Production :	26 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway. Center line of the spillway shall be shifted to right side.		
4. Operation and Maintenance Not studied.		
Cost Requirement: (1,000 Pesos)		Project Evaluation:
1. Review :	0	EIRR : 27.5 %
2. Feasibility Study :	0	Priority Rating:
3. Detailed Design :	0	Group : A (OECF Candidate)
4. Construction :		Implementation Schedule:
Dam :	3,457	Review : -
Irrigation :	2,219	F/S : Completed
Mini-Hydropower :	0	D/D : Completed
Water Supply :	0	Construction: within 1st 5 years
Watershed Protection :	1,167	
5. Grand Total :	6,842	

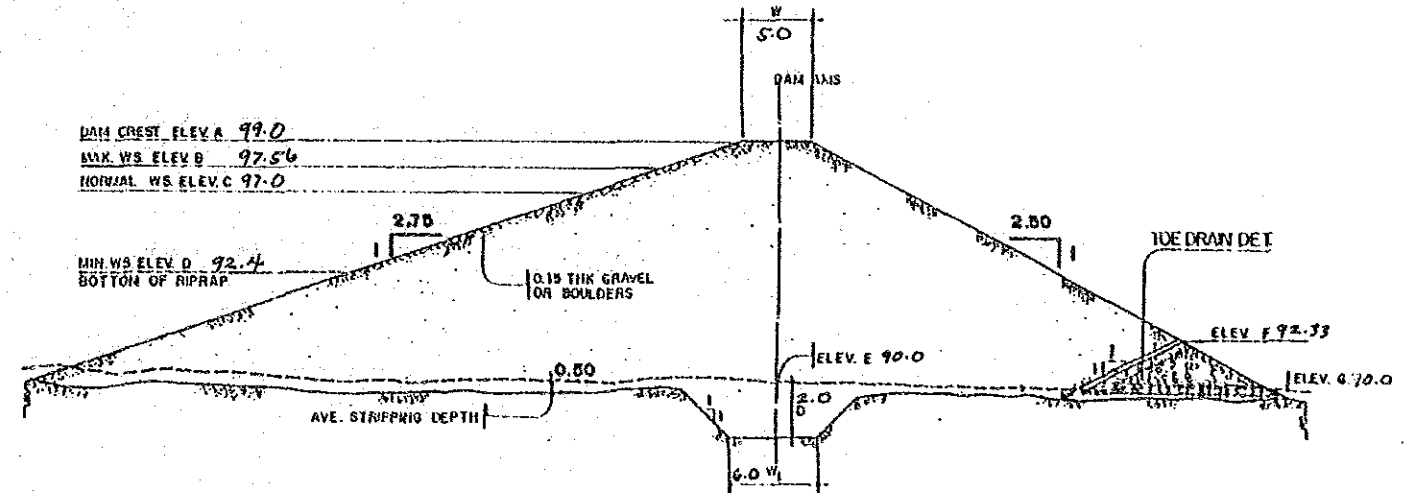


SWIM PROJECT PROFILE		File No. : 148
Regist. No. : Agency No. : BSWM-62	Name: MASALIPIT SWIP	
Region: 3	Province: BULACAN	Municipality: SAN MIGUEL
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : HOMOGENEOUS EARTHFILL	
	Dam Height : 9 m	
	Effective Storage Capacity : 495,745 m ³	
	Embankment Volume : 12,500 m ³	
	Design Flood Discharge : 23 m ³ /sec.	
2. Irrigation	Irrigation Area : 100 ha	
3. Mini-hydropower	Installed Capacity : 0 kW	
4. Watershed Man.	Watershed Protection Area : 132 ha	
5. Water Supply	Design Supply Capacity : 0 m ³ /day	
6. Inland Fishery	Annual Production : 34 ton/year	
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Food Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 34	EIRR : 43.7 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction		(OECF Candidate)
Dam	: 2,306	Implementation Schedule:
Irrigation	: 2,219	Review : within 1st 5 years
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 0	D/D : Completed
Watershed Protection	: 3,210	Construction: within 1st 5 years
5. Grand Total	: 7,768	

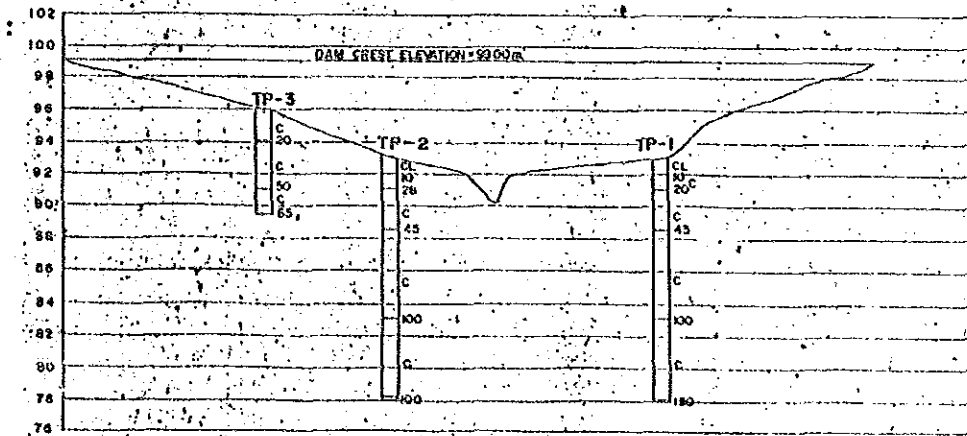
Layout:



Typical Dam Section:



Profile of Dam Axis:



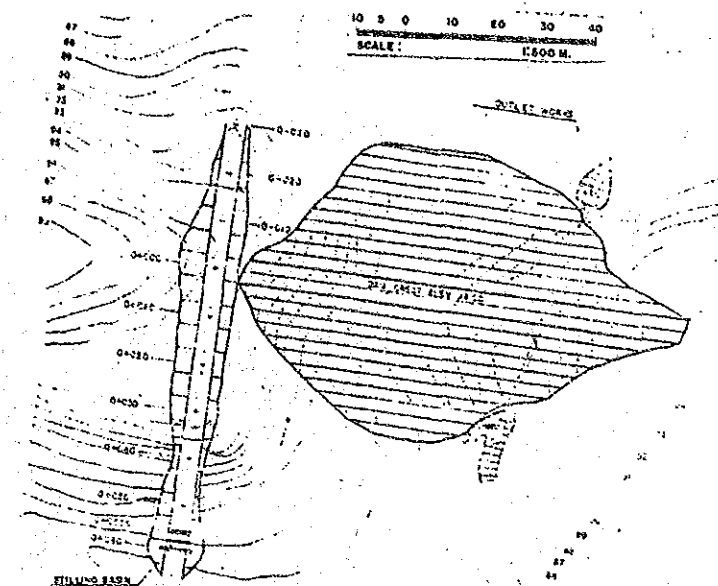
PROFILE
SCALE: V - 200 M, H - 500 M

Note:

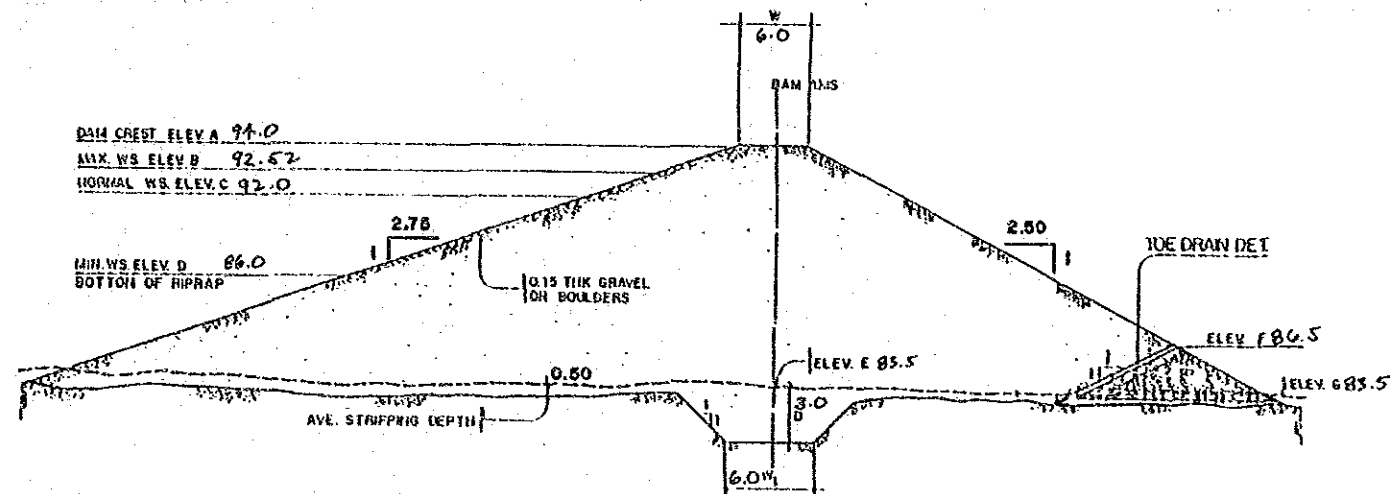
silty clay with 1.0 m depth is piled up on the sand, silty and mxid stone.

SWIM PROJECT PROFILE		File No. : 149
Regist. No. : Agency No. : BSWM-63	Name : VILLA BOADO SWIP	
Region : 3	Province : NUEVA ECIJA	Municipality : TALUGTUG
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 11 m 212,799 m ³ 15,500 m ³ 12 m ³ /sec.
2. Irrigation	Irrigation Area :	100 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	48 ha
5. Water Supply	Design Supply Capacity :	0 m ³ /day
6. Inland Fishery	Annual Production :	10 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review :	0	EIRR : 29.9 %
2. Feasibility Study :	0	Priority Rating:
3. Detailed Design :	0	Group : A
4. Construction :		Implementation Schedule:
Dam :	2,347	Review : -
Irrigation :	2,219	F/S : Completed
Mini-Hydropower :	0	D/D : Completed
Water Supply :	0	Construction: Jul. 1991; 6 months
Watershed Protection :	1,167	
5. Grand Total :	5,733	

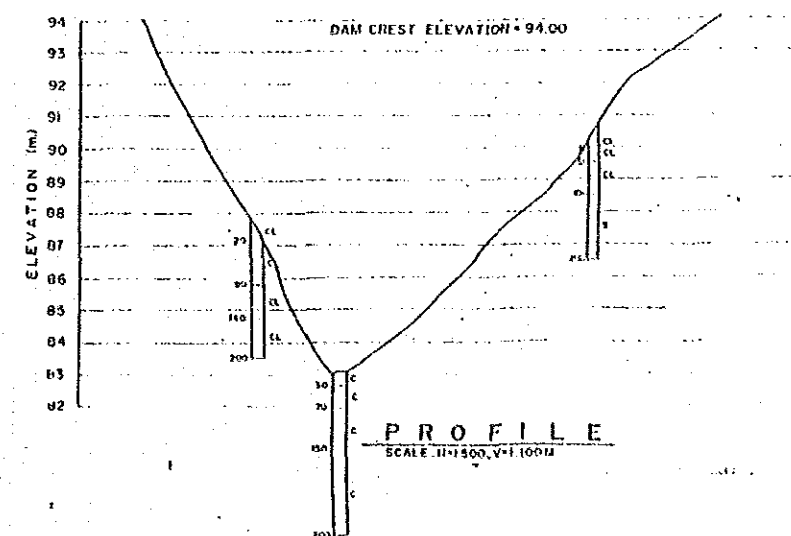
Layout:



Typical Dam Section:

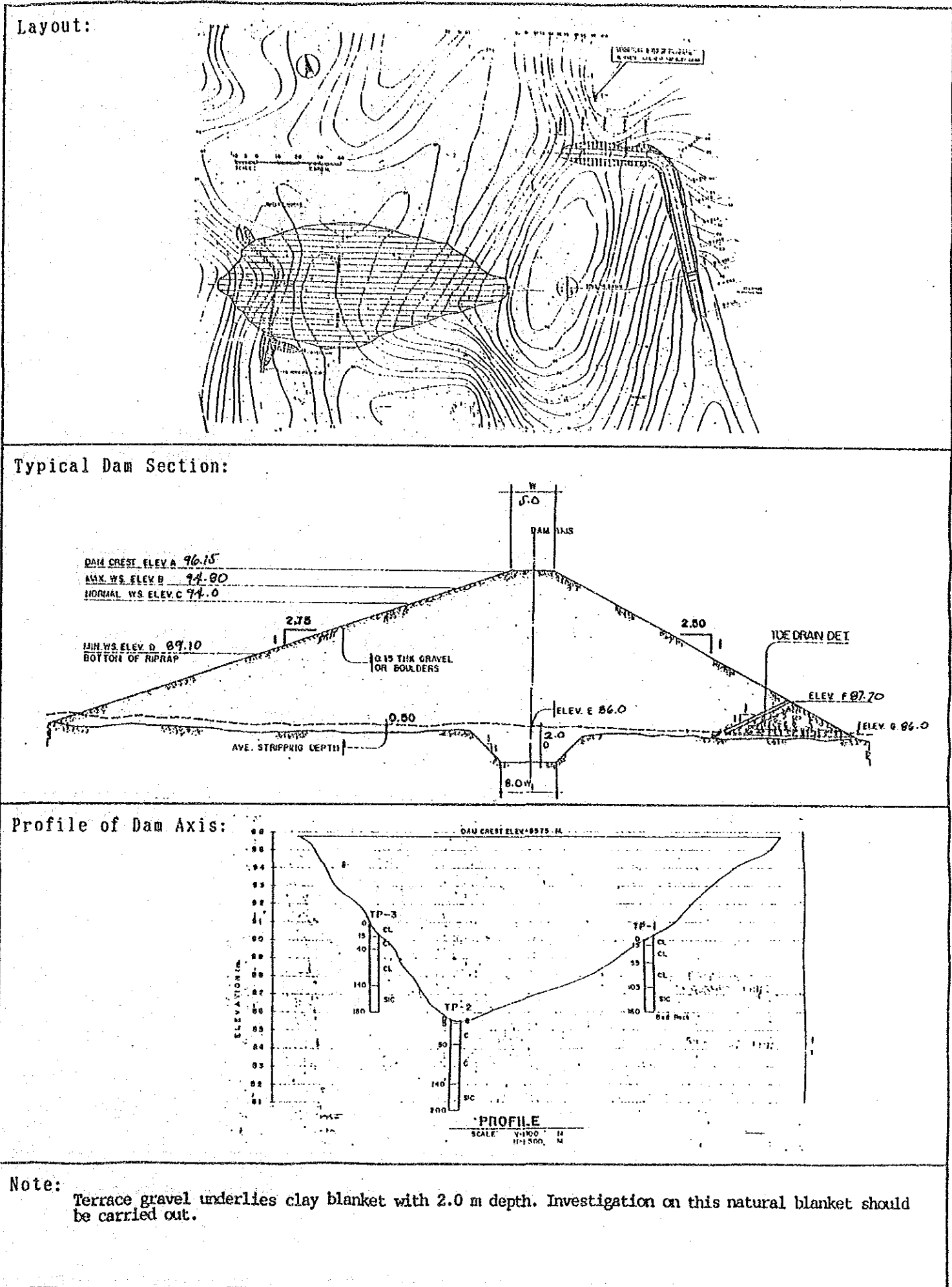


Profile of Dam Axis:



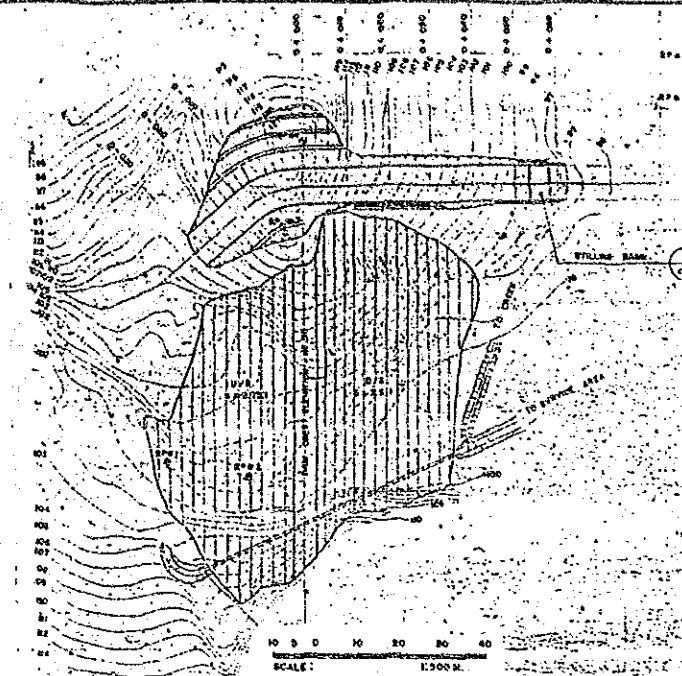
Note: Silty clay with 2.0 m depth is piled up sand stone and shale.

SWIM PROJECT PROFILE		File No. : 150
Regist. No. : Agency No. : BSWM-64	Name: BUTID SWIP	
Region: 3	Province: NUEVA ECIJA	Municipality: TALUGTUG
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHPILL
	: Dam Height	: 10 m
	: Effective Storage Capacity	: 306,078 m ³
	: Embankment Volume	: 22,000 m ³
	: Design Flood Discharge	: 14 m ³ /sec.
2. Irrigation	: Irrigation Area	: 100 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 42 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 10 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall bUp stream slope of dam shall be checked by stability Center line of conduit is recommended to be straight.		
4. Operation and Maintenance Not studied.		
Cost Requirement: (1,000 Pesos)		Project Evaluation:
Review	: 0	EIRR : 17.5 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : A
Construction		Implementation Schedule:
Dam	: 3,504	Review : -
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul.1993; 6 months
Watershed Protection	: 1,019	
Grand Total	: 6,742	

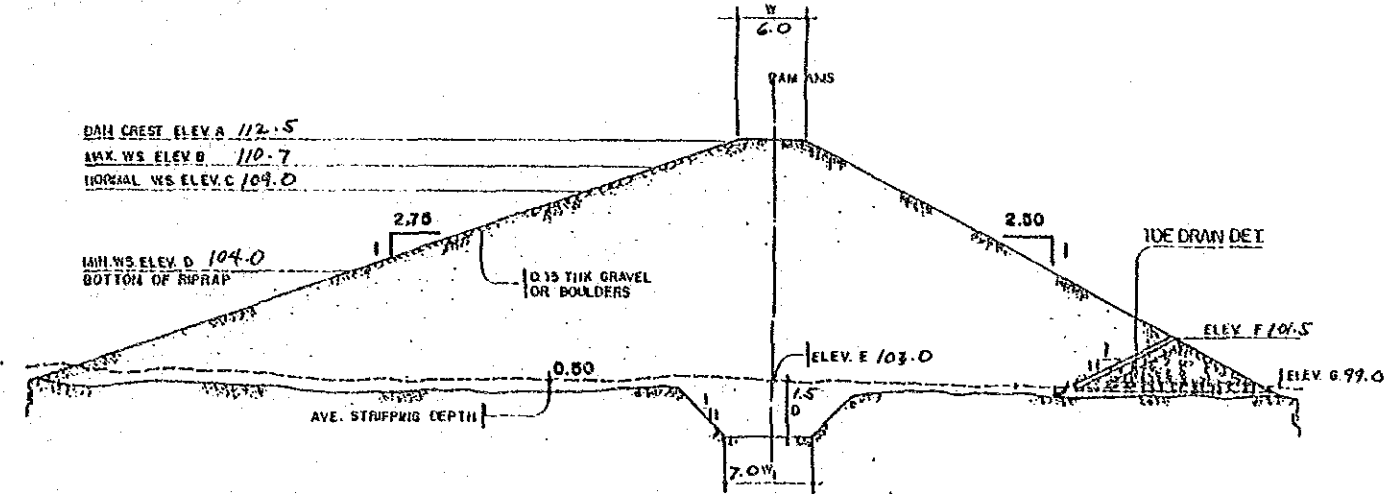


SWIM PROJECT PROFILE		File No. : 151
Regist. No. : Agency No. : BSWM-65	Name : MANINIOG SWIP	
Region : 3	Province : TARLAC	Municipality : MAYANTOC
Present Status : 1. Pre-F/S() (2) F/S(1983) (3) D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 14 m 42,302 m ³ 23,300 m ³ 31 m ³ /sec.
2. Irrigation	Irrigation Area :	50 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	120 ha
5. Water Supply	Design Supply Capacity :	0 m ³ /day
6. Inland Fishery	Annual Production :	2 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated. Project planning shall be re-formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 7.7 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 3,003	(OECF Candidate)
Dam	: 1,109	Implementation Schedule:
Irrigation	: 0	Review : -
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 1,325	D/D : Completed
Watershed Protection	: 5,437	Construction: within 1st 5 years
5. Grand Total		

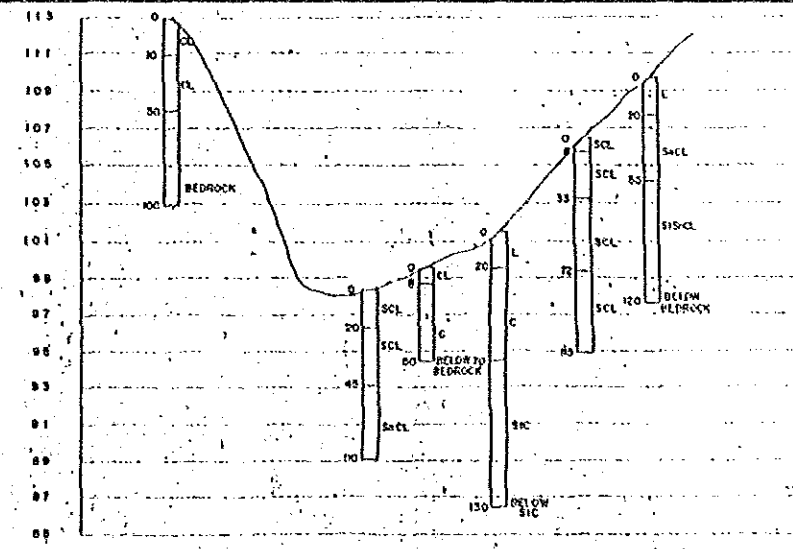
Layout:



Typical Dam Section:



Profile of Dam Axis:

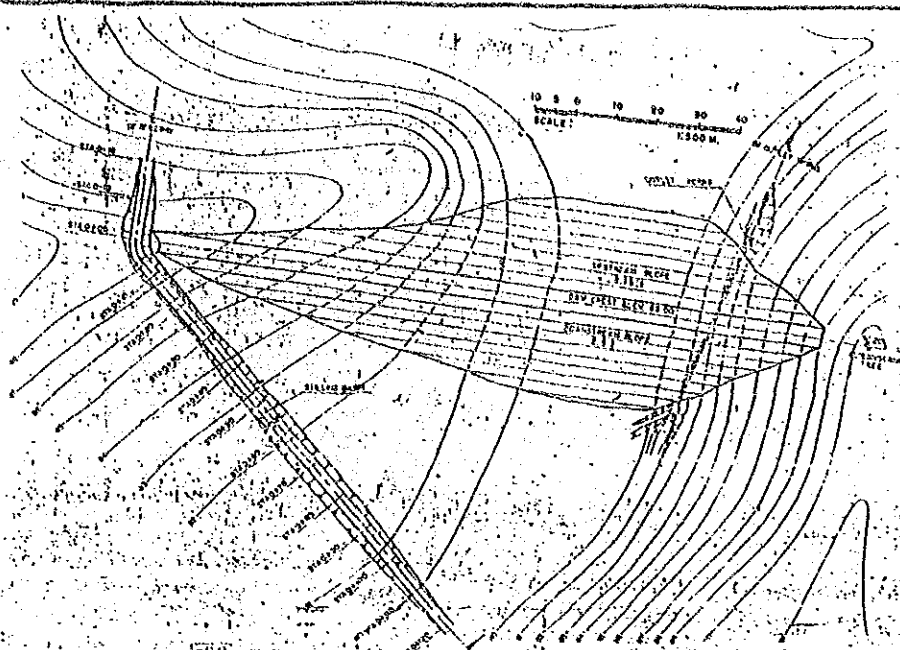


Note:

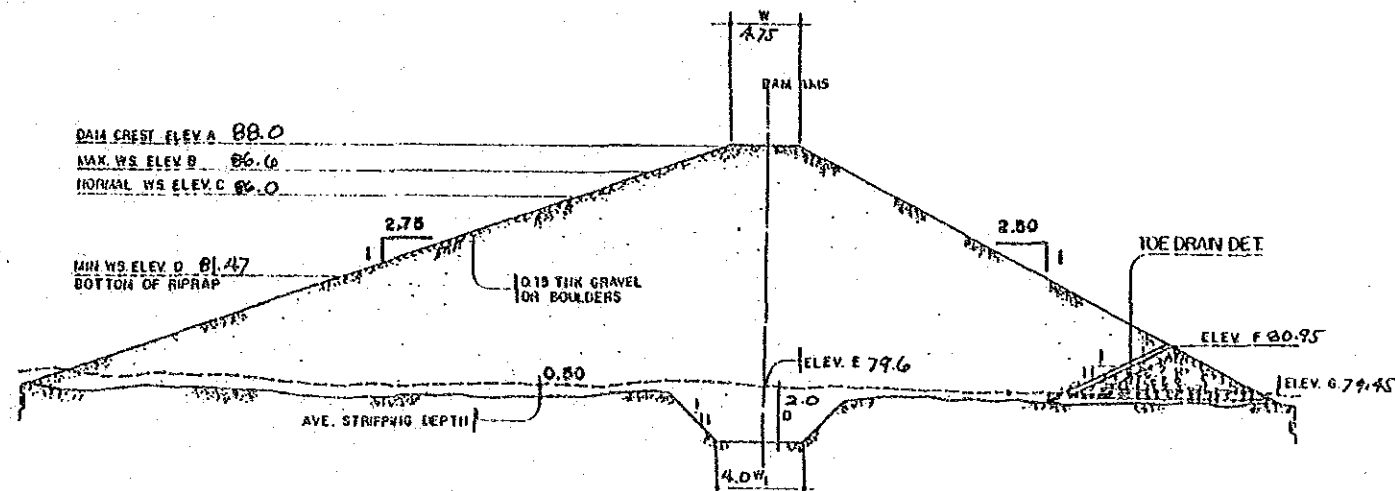
Basalt having minor joints, fractures and shares underlay clay blanket with 1.5 m depth.

SWIM PROJECT PROFILE		File No. : 152
Regist. No. : Agency No. : BSWM-66	Name: VILLA ISLA SWIP	
Region: 3	Province: NUEVA ECIJA	Municipality: MUNOZ
Present Status: 1. Pro-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 8 m
	: Effective Storage Capacity	: 227,278 m ³
	: Embankment Volume	: 17,500 m ³
	: Design Flood Discharge	: 10 m ³ /sec.
2. Irrigation	: Irrigation Area	: 100 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 48 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 18 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Countermeasure for seepage shall be planned. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Funds Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 31.5 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 2,438	Implementation Schedule:
Dam	: 2,438	Review : -
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1985; 6 months
Watershed Protection	: 1,167	
5. Grand Total	: 5,824	

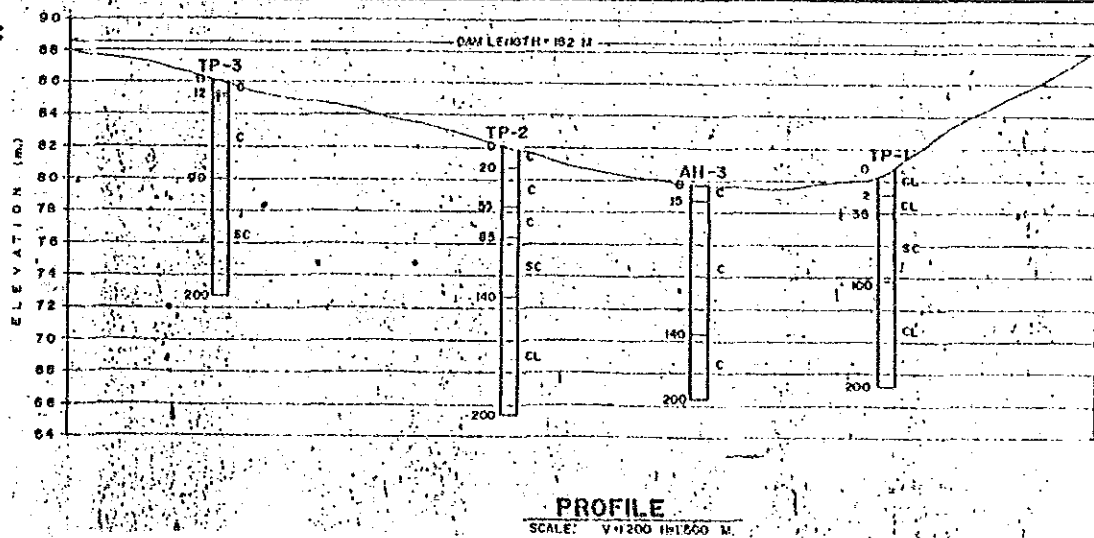
Layout:



Typical Dam Section:

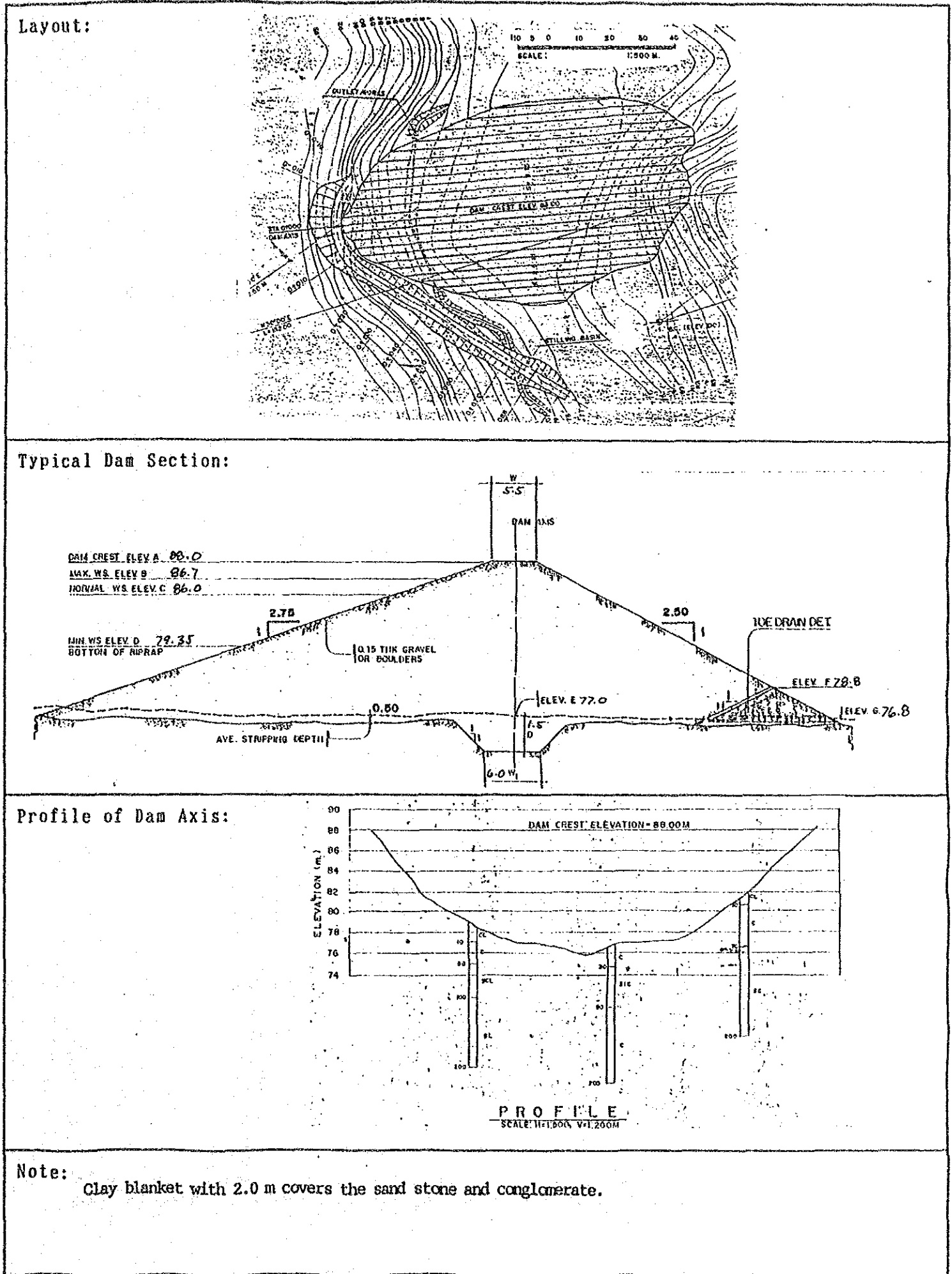


Profile of Dam Axis:



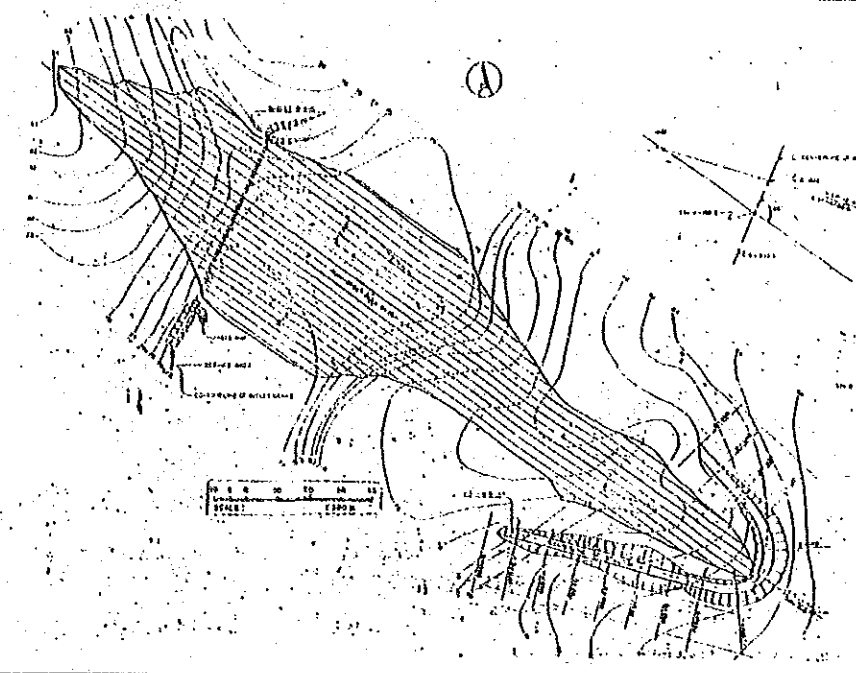
Note: Porous terrace gravel underlies 2.0-2.6 meter's depth clay layer. This clay layer functions as impervious blanket.

SWIM PROJECT PROFILE		File No. : 153
Regist. No. : Agency No. : BSWM-67	Name: STA. CATALINA SWIP	
Region: 3	Province: NUEVA ECIJA	Municipality: TALUGTOG
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 11 m
	: Effective Storage Capacity	: 154,717 m ³
	: Embankment Volume	: 29,000 m ³
	: Design Flood Discharge	: 7 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 24 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 6 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Center line of the spillway shall be shifted to right side. Weir shall be provided in the spillway. Center line of conduit is recommended to be straight.		
4. Operation and Maintenance Not studied.		
Food Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 13.5 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction		Implementation Schedule:
Dam	: 3,803	Review : -
Irrigation	: 1,109	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1994; 6 months
Watershed Protection	: 584	
Grand Total	: 5,496	

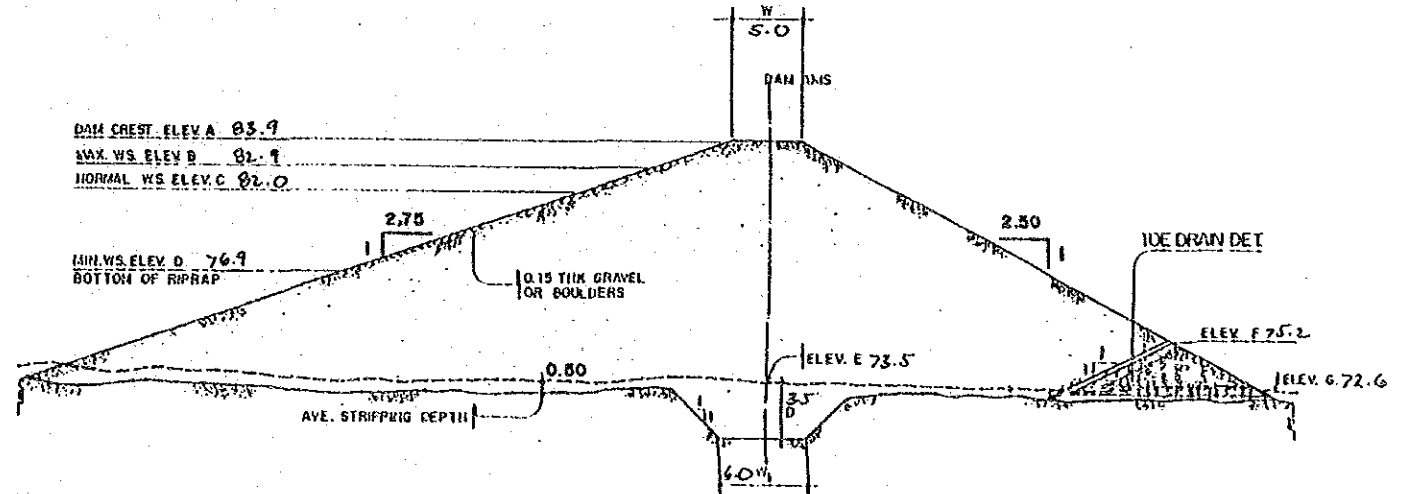


SWIM PROJECT PROFILE		File No. : 154
Regist. No. : Agency No. : BSWM-68	Name : PULO SWIP	
Region : 3	Province : BULACAN	Municipality : SAN RAFAEL
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 11 m
	: Effective Storage Capacity	: 94,030 m ³
	: Embankment Volume	: 42,705 m ³
	: Design Flood Discharge	: 13 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 48 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 6 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Countermeasure for seepage shall be planned. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway. Center line of the spillway shall be shifted to left side.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 11.6 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 4,562	Implementation Schedule:
Dam	: 1,109	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,167	Construction: Jan. 1999; 6 months
Watershed Protection	: 6,839	
5. Grand Total		

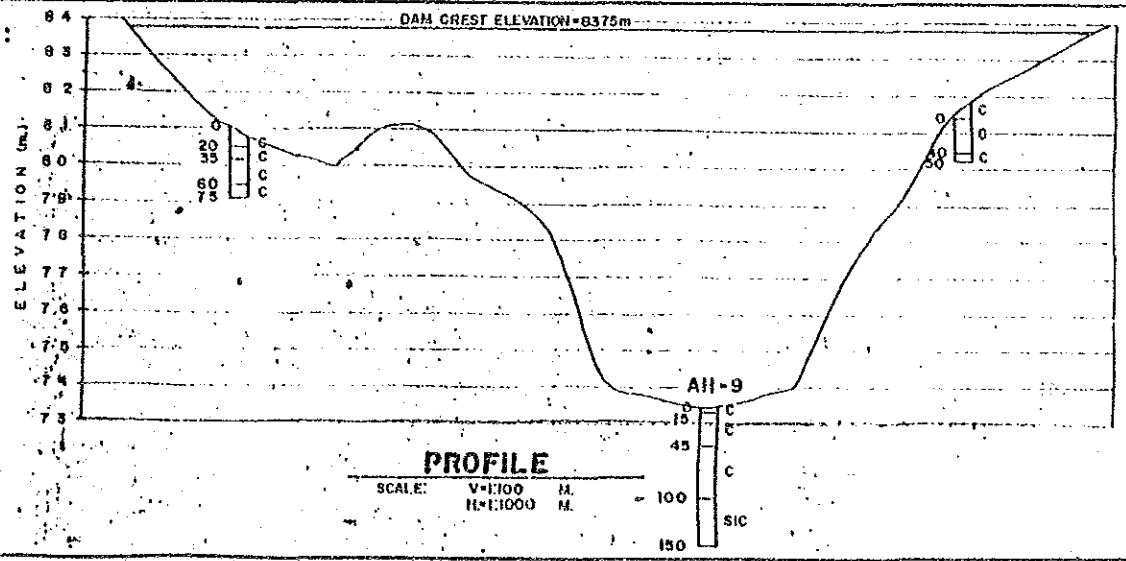
Layout:



Typical Dam Section:



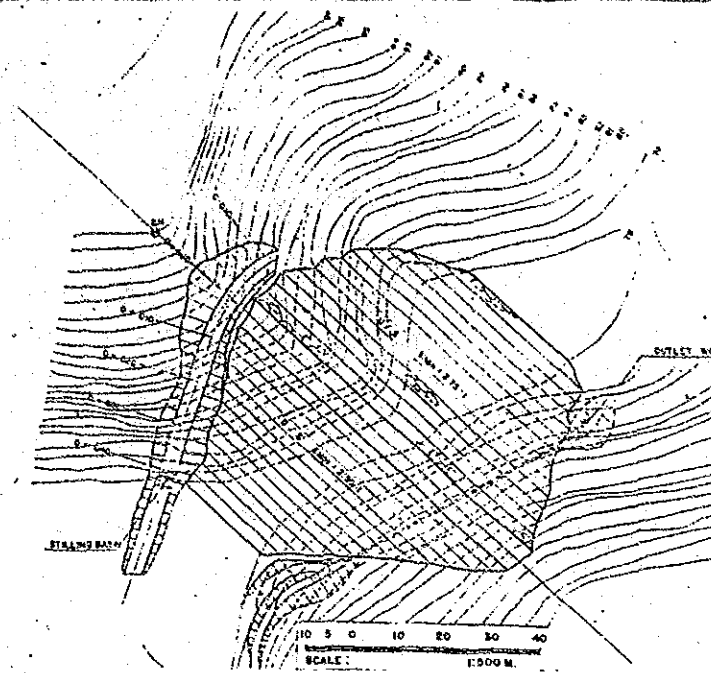
Profile of Dam Axis:



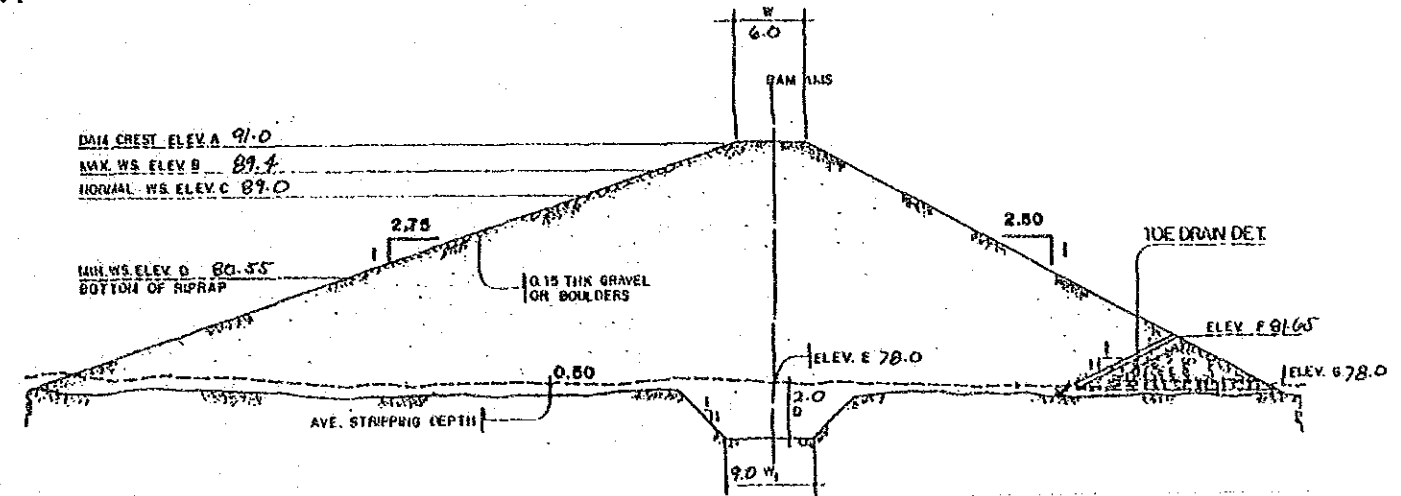
Note: Conglomerate, of which matrix is coarse-grained and calcareous sandy, underlies top soil with 0.5 m. Seepage through foundation shall be noticed. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 155
Regist. No. : Agency No. : BSWM-69	Name : STO. DOMINGO II SWIP	
Region : 3	Province : NUEVA ECIJA	Municipality : TALUGTOG
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 13 m
	: Effective Storage Capacity	: 281,663 m ³
	: Embankment Volume	: 22,680 m ³
	: Design Flood Discharge	: 8 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 24 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 13 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Freeboard is not enough. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 34	EIRR : 15.9 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 3,160	Implementation Schedule:
Dam	: 1,109	Review : 1984
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 584	Construction: Jan. 1985; 6 months
Watershed Protection	: 4,887	
5. Grand Total		

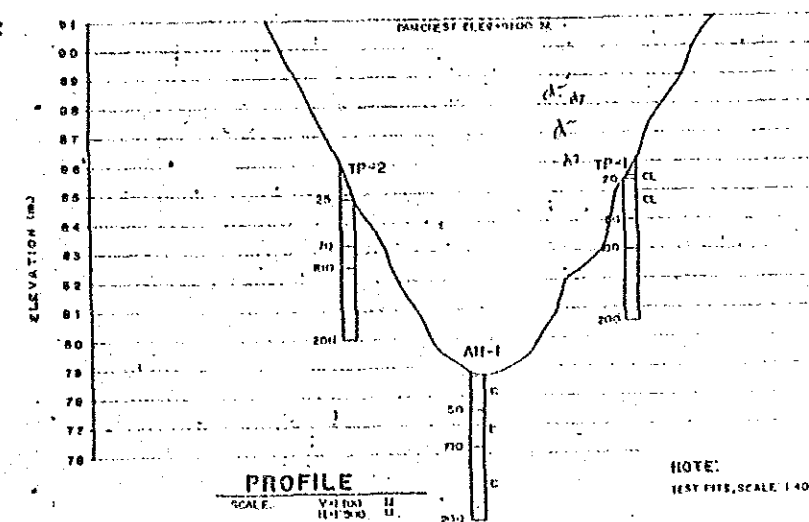
Layout:



Typical Dam Section:



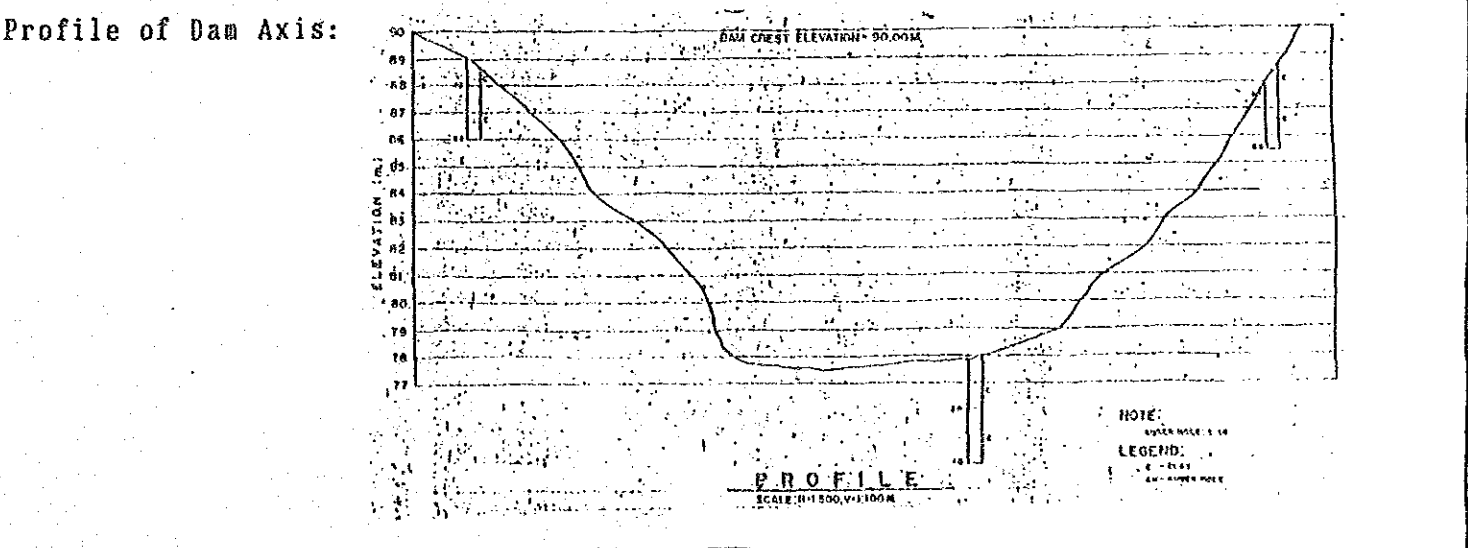
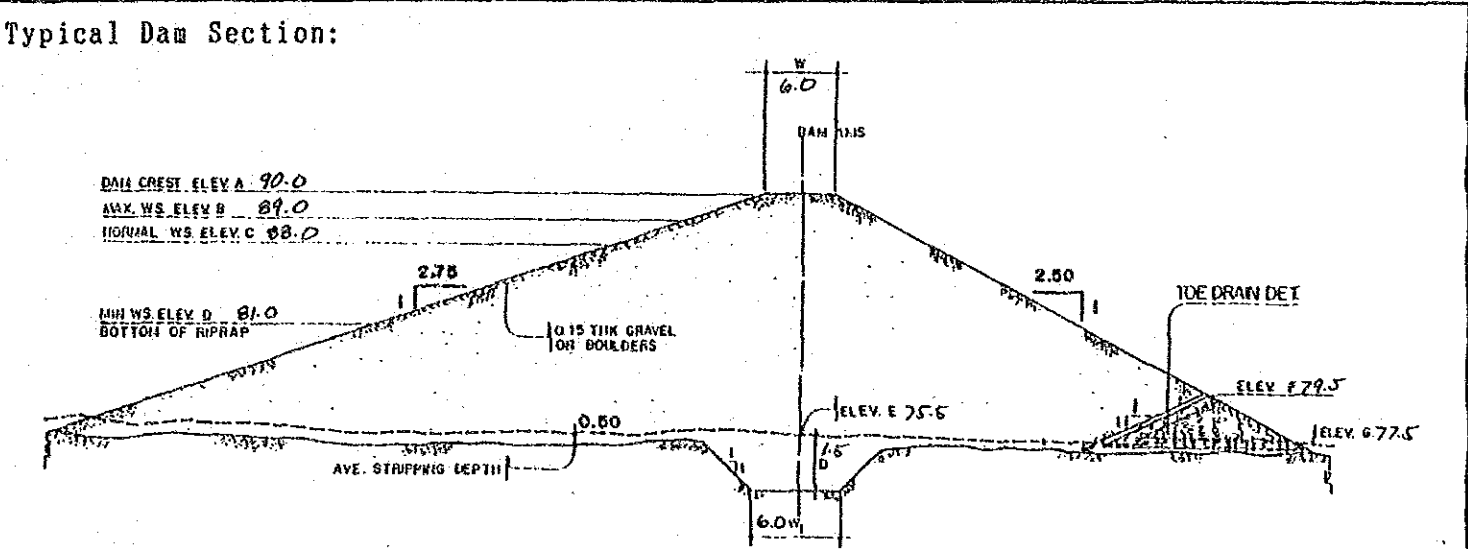
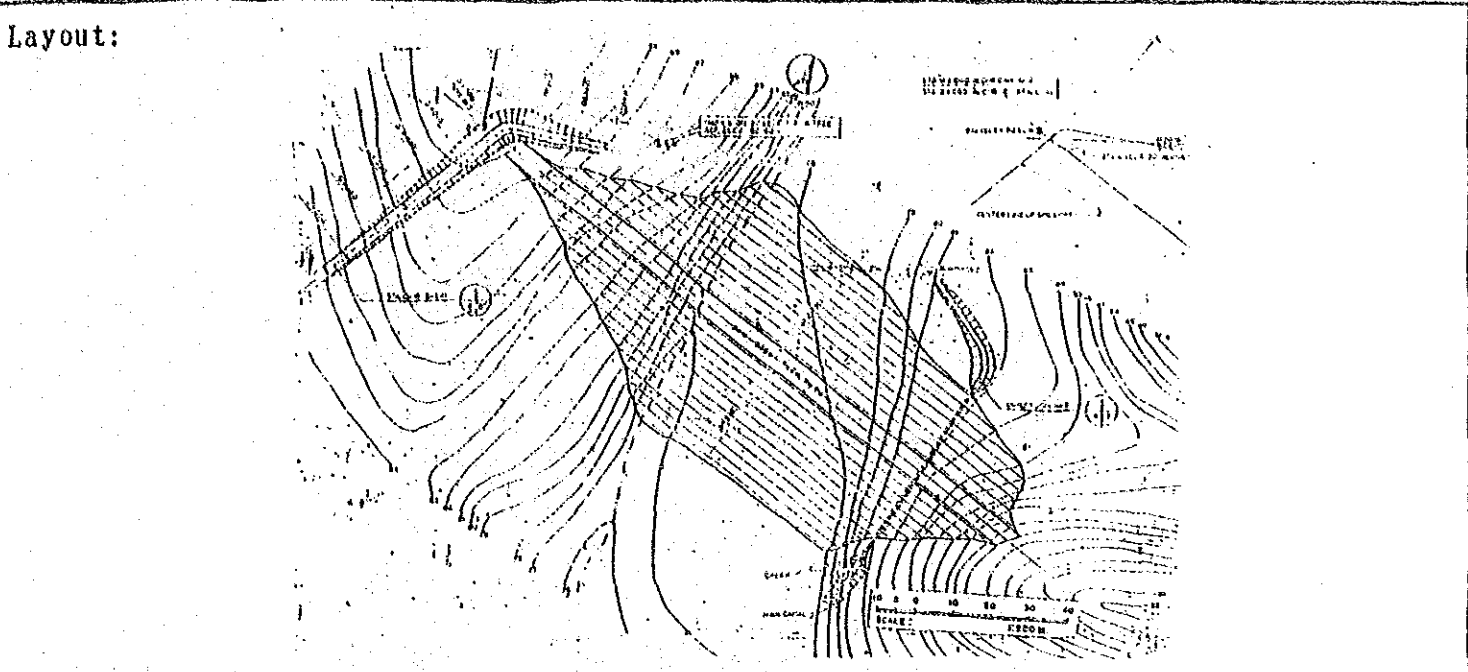
Profile of Dam Axis:



Note:

Clay with 2.0 m depth is piled up on sand stone, shale and conglomerate. Additional 0.5 m freeboard is necessary.

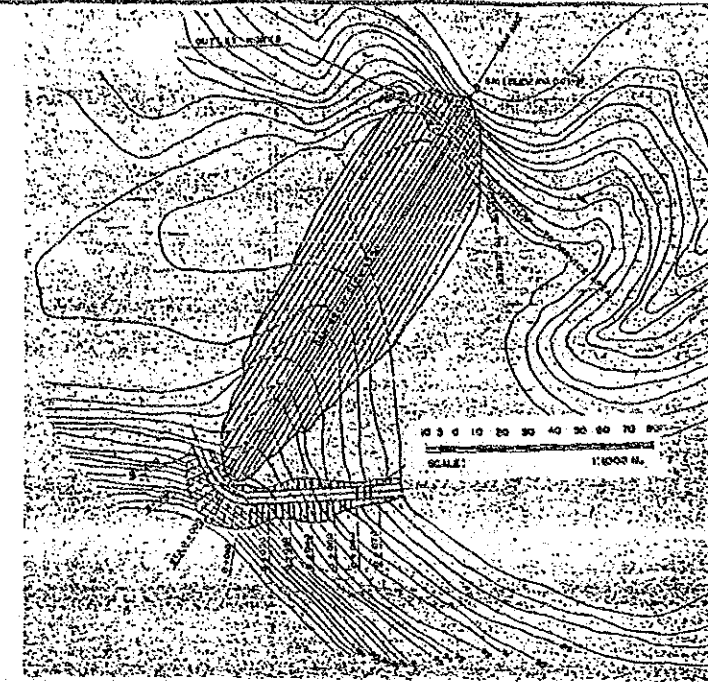
SWIM PROJECT PROFILE		File No. : 156
Regist. No. : Agency No. : BSWM-70	Name : BITUNGOL SWIP	
Region : 3	Province : BULACAN	Municipality : NORZAGARAY
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 13 m
	: Effective Storage Capacity	: 190,049 m ³
	: Embankment Volume	: 44,000 m ³
	: Design Flood Discharge	: 10 m ³ /sec.
2. Irrigation	: Irrigation Area	: 100 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 36 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 8 ton/year
Technical Assessment:		
1. Survey and Investigation:		
Depth of test pit or auger boring is not enough.		
Bearing capacity and permeability are not measured.		
Available volume for dam embankment shall be studied before construction.		
2. Planning		
Environmental conservation plan is not formulated.		
3. Design		
Countermeasure for seepage in clay layer shall be planned.		
Stability of upstream slope of the dam shall be checked.		
Weir shall be provided in the spillway.		
4. Operation and Maintenance		
Not studied.		
Cost Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 10.4 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 0	Implementation Schedule:
Dam	: 4,469	Review : -
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1999; 6 months
Watershed Protection	: 875	
5. Grand Total	: 7,563	



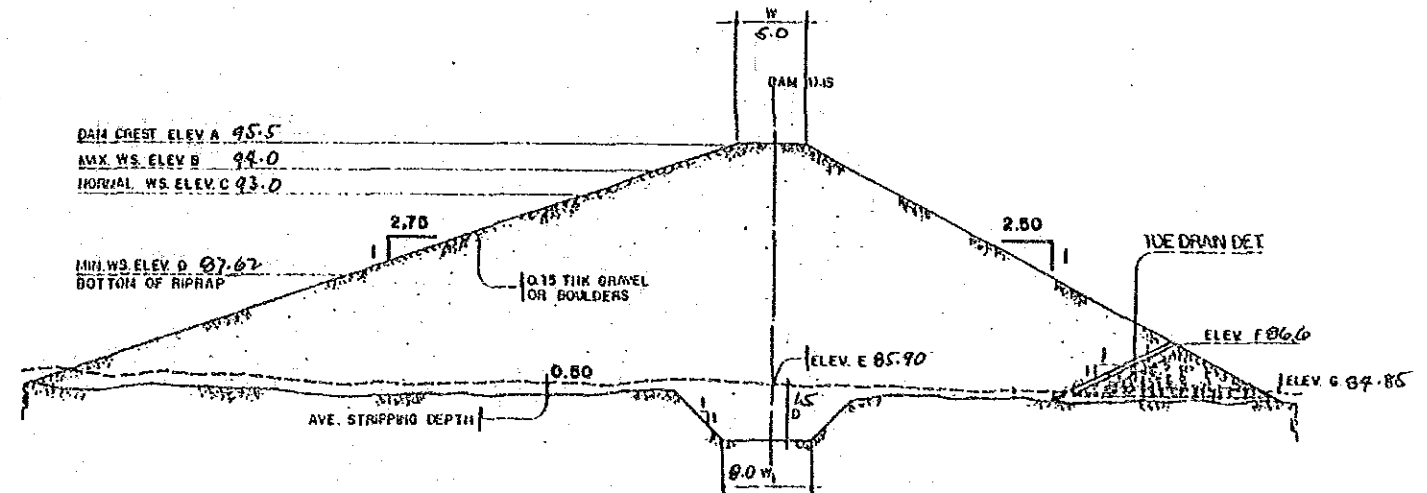
Note: Clay layer, which covers conglomerate, is 0.4 m depth.
So there is some anxiety about permeability in the foundation.

SWIM PROJECT PROFILE		File No. : 157
Regist. No. : Agency No. : BSWM-71	Name: MAASIN SWIP	
Region: 3	Province: NUEVA ECIJA	Municipality: TALUGTOG
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 11 m
	: Effective Storage Capacity	: 367,690 m ³
	: Embankment Volume	: 46,538 m ³
	: Design Flood Discharge	: 30 m ³ /sec.
2. Irrigation	: Irrigation Area	: 100 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 144 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 14 ton/year
Technical Assessment:		
1. Survey and Investigation:		
Depth of test pit or auger boring is not enough.		
Bearing capacity and permeability are not measured.		
Available volume for dam embankment shall be studied before construction.		
2. Planning		
Environmental conservation plan is not formulated.		
3. Design		
Depth of core trench shall be modified during construction.		
Stability of upstream slope of the dam shall be checked.		
Freeboard is not enough.		
Weir shall be provided in the spillway.		
4. Operation and Maintenance		
Not studied.		
Cost Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 65	EIRR : 15.8 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 0	Implementation Schedule:
Dam	: 5,953	Review : 1993
Irrigation	: 2,210	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1994; 6 months
Watershed Protection	: 3,468	
5. Grand Total	: 11,705	

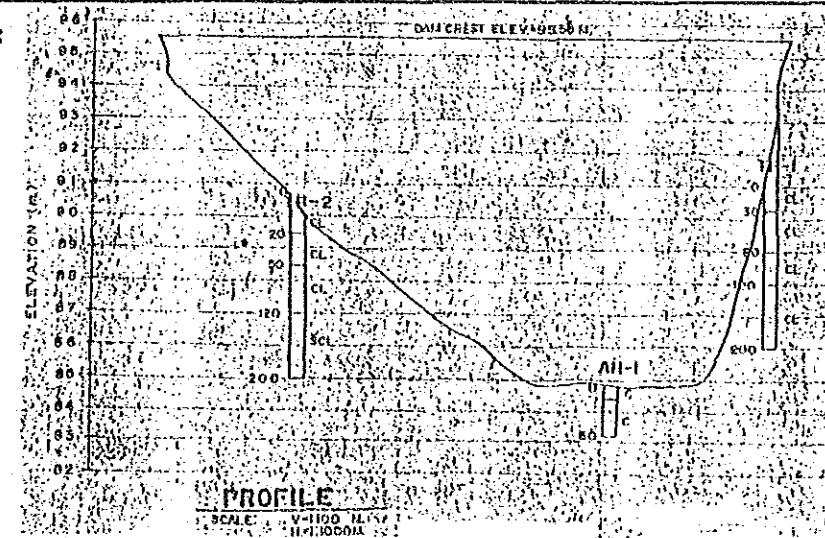
Layout:



Typical Dam Section:



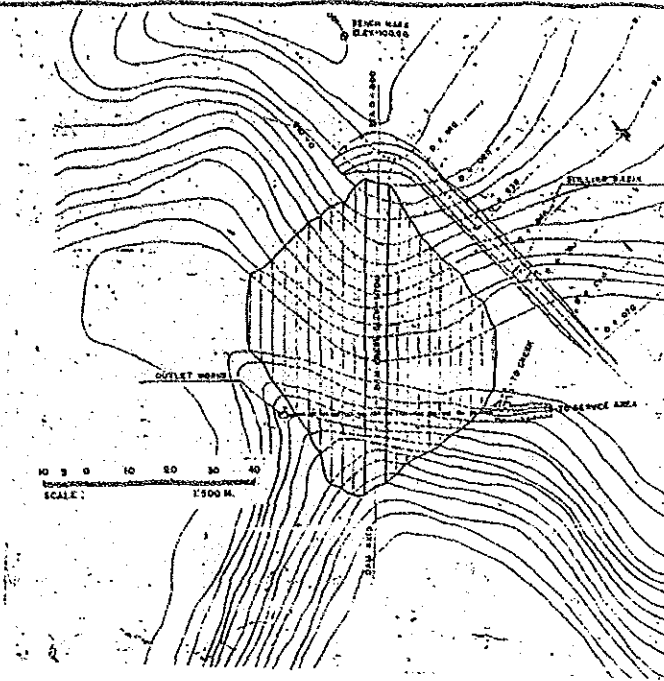
Profile of Dam Axis:



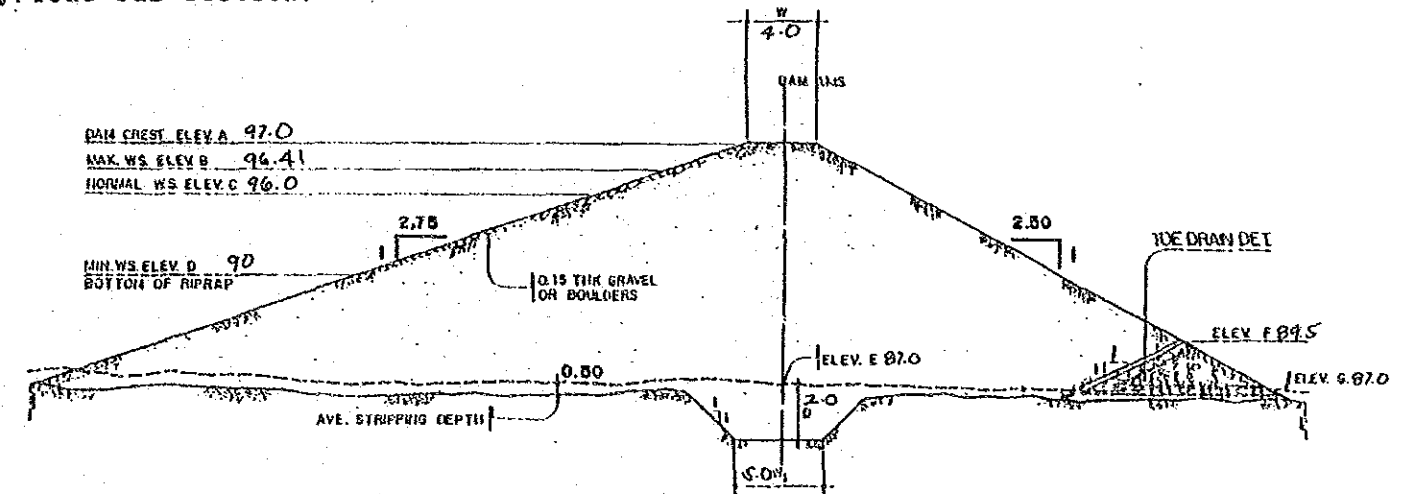
Note: Terrace gravel underlies high weathered sandy clay with 2.0 m depth. Attention have to be paid to the spring water found 200 m upstream. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 158
Regist. No. : Agency No. : BSWM-72	Name: STO. DOMINGO I SWIP	
Region: 3	Province: NUEVA ECIJA	Municipality: TALUGTOG
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : HOMOGENEOUS EARTHFILL	
	Dam Height : 10 m	
	Effective Storage Capacity : 266,700 m ³	
	Embankment Volume : 11,500 m ³	
	Design Flood Discharge : 10 m ³ /sec.	
2. Irrigation	Irrigation Area : 70 ha	
3. Mini-hydropower	Installed Capacity : 0 kW	
4. Watershed Man.	Watershed Protection Area : 36 ha	
5. Water Supply	Design Supply Capacity : 0 m ³ /day	
6. Inland Fishery	Annual Production : 14 ton/year	
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 20.0 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction		Implementation Schedule:
Dam	: 2,518	Review : -
Irrigation	: 1,553	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1982; 6 months
Watershed Protection	: 875	
5. Grand Total	: 4,846	

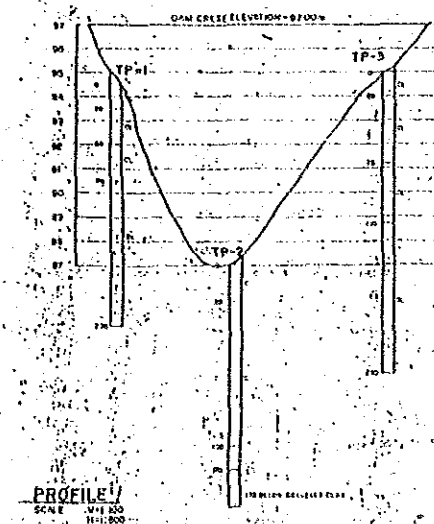
Layout:



Typical Dam Section:



Profile of Dam Axis:

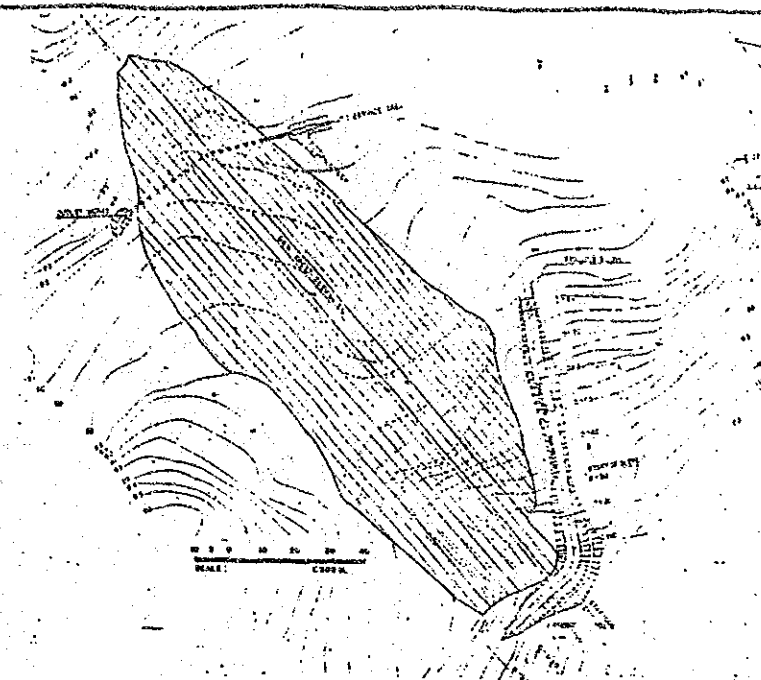


Note:

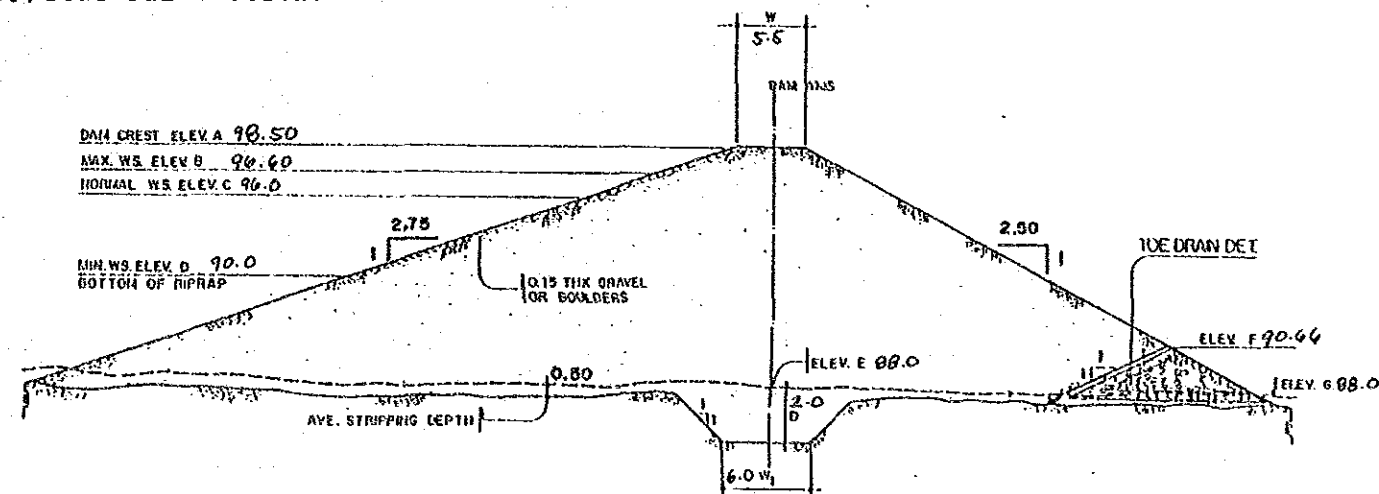
Clay blanket with 2.0 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 159
Regist. No. : Agency No. : BSWM-73	Name: MANGANDINGAY SWIP	
Region: 3	Province: NUEVA ECIJA	Municipality: MUNOZ
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 11 m
	: Effective Storage Capacity	: 201,132 m ³
	: Embankment Volume	: 44,000 m ³
	: Design Flood Discharge	: 8 m ³ /sec.
2. Irrigation	: Irrigation Area	: 80 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 30 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 8 ton/year
Technical Assessment:		
1. Survey and Investigation:		
Depth of test pit or auger boring is not enough.		
Bearing capacity and permeability are not measured.		
Available volume for embankment shall be studied before construction.		
2. Planning		
Environmental conservation plan is not formulated.		
3. Design		
Depth of core trench shall be modified during construction.		
Stability of upstream slope of the dam shall be checked.		
Center line of the spillway shall be shifted to left side.		
Center line of conduit is recommended to be straight.		
4. Operation and Maintenance		
Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 15.2 %
2. Feasibility Study	: 0	
3. Detailed Design	: 0	Priority Rating:
4. Construction	: 4,754	Group : A
Dam	: 1,775	(OECF Candidate)
Irrigation	: 0	Implementation Schedule:
Mini-Hydropower	: 0	Review : -
Water Supply	: 0	F/S : Completed
Watershed Protection	: 729	D/D : Completed
5. Grand Total	: 7,258	Construction: within 1st 5 years

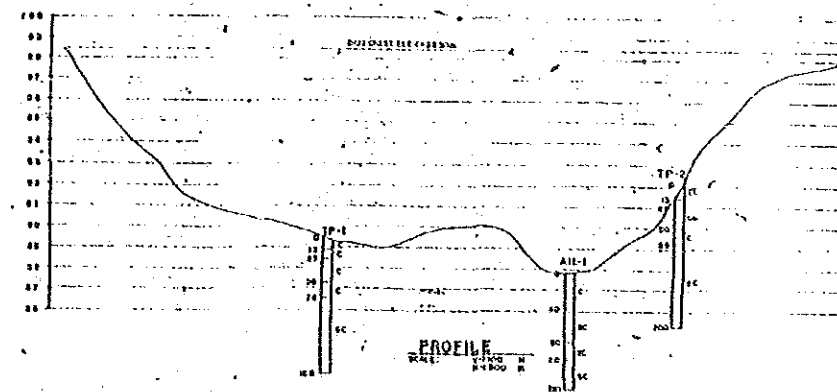
Layout:



Typical Dam Section:



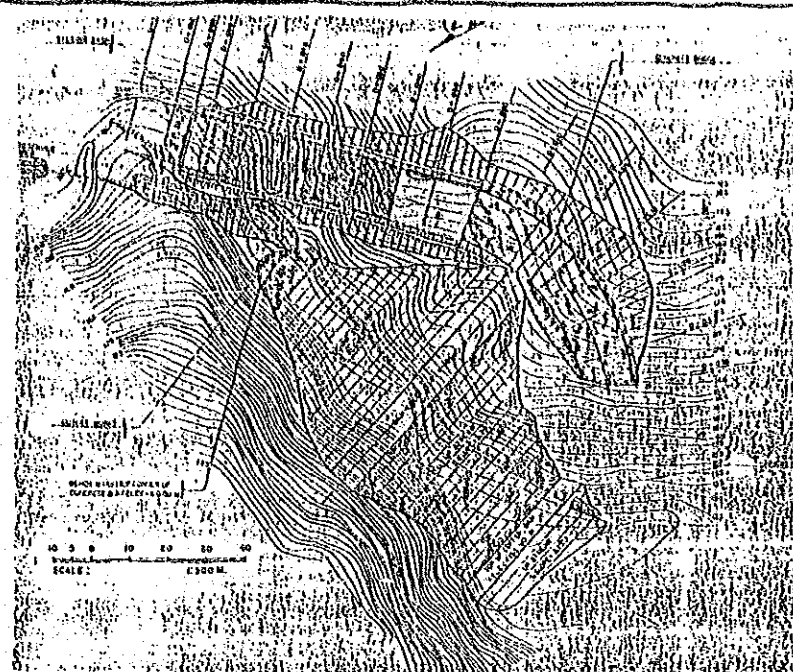
Profile of Dam Axis:



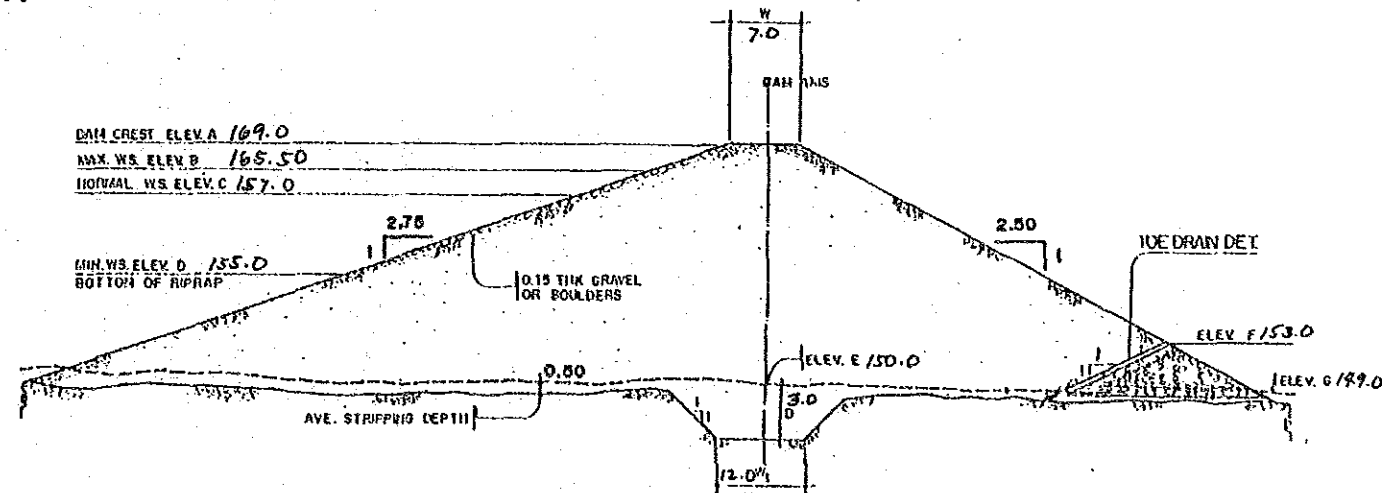
Note: Terrace gravel underlies clay blanket with 2.0 m depth. Its matrix is sand.

SWIM PROJECT PROFILE		File No. : 160
Regist. No. : Agency No. : BSWM-74	Name : NAMULANDAYAN SWIP	
Region : 3	Province : NUEVA ECIJA	Municipality : LUPAO
Present Status: 1. Pre-F/S() ② F/S(1987) ③ D/D(1987)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 19 m
	: Effective Storage Capacity	: 1,098,613 m ³
	: Embankment Volume	: 30,200 m ³
	: Design Flood Discharge	: 50 m ³ /sec.
2. Irrigation	: Irrigation Area	: 400 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 432 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 43 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design The seepage in the underlining metamorphic rock shall be studied. Stability of upstream slope of the dam shall be checked. Design discharge shall be estimated based on 100 year's flood or more. Center line of the spillway shall be shifted to right side. Weir shall be provided in the spillway. Center line of conduit is recommended to be straight.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 34.3 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 5,459	Implementation Schedule:
Dam	: 5,459	Review : -
Irrigation	: 8,875	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1991; 6 months
Watershed Protection	: 10,503	
5. Grand Total	: 24,837	

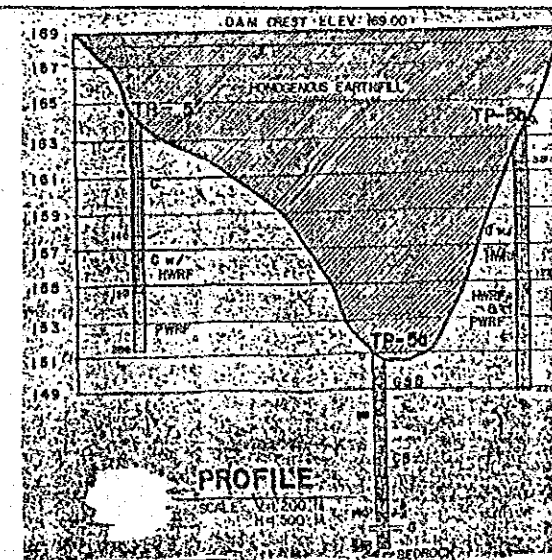
Layout:



Typical Dam Section:

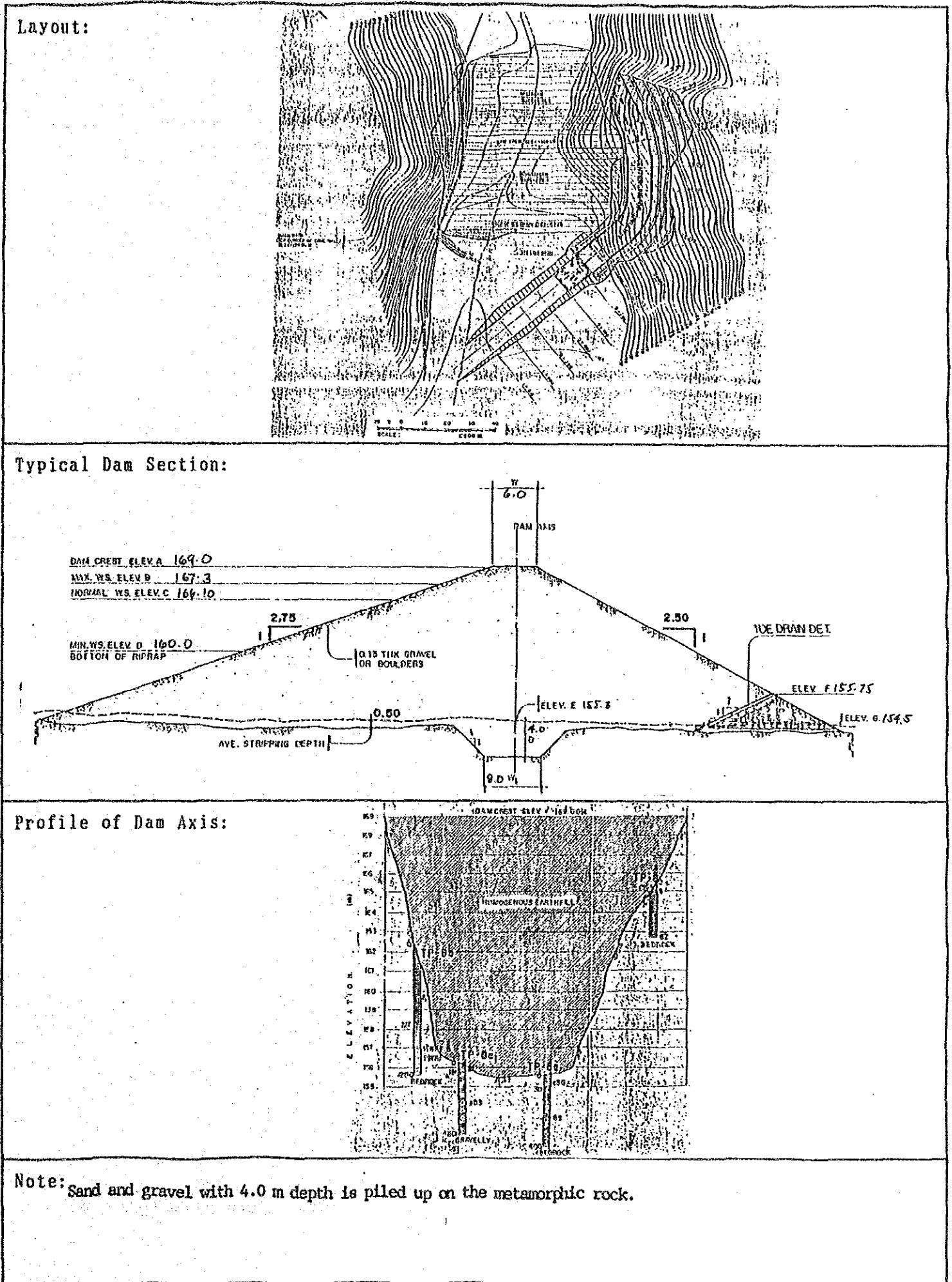


Profile of Dam Axis:



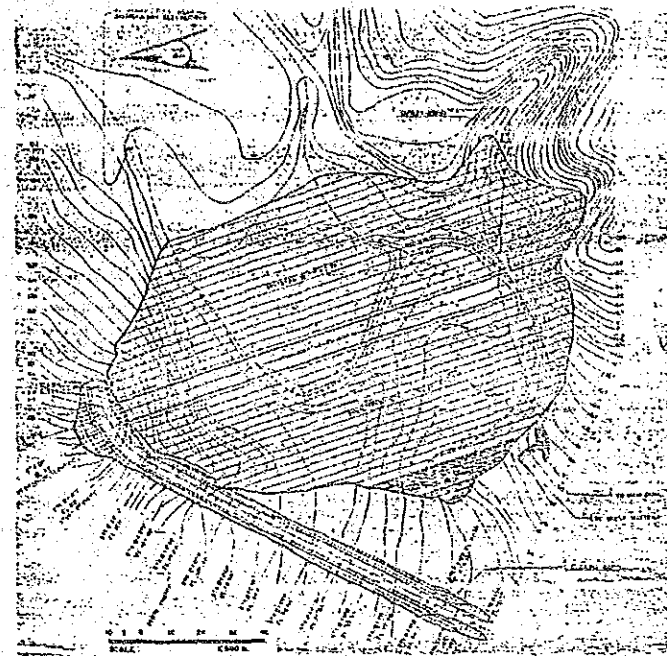
Note: The extent of sand and gravel with 1.4 m depth in riverbed shall be confirmed as well as the permeability in the underneath metamorphic rock.

SWIM PROJECT PROFILE		File No. : 161
Regist. No. : Agency No. : BSWM-75	Name : PARISTA SWIP	
Region : 3	Province : NUEVA ECUIJA	Municipality : LUPAO
Present Status: 1. Pre-F/S() ② F/S(1987) ③ D/D(1987)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 14 m
	: Effective Storage Capacity	: 222,656 m ³
	: Embankment Volume	: 35,938 m ³
	: Design Flood Discharge	: 26 m ³ /sec.
2. Irrigation	: Irrigation Area	: 80 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 204 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 10 ton/year
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction. Boring in the river bed are not conducted.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Base of core trench shall be in the rock. Stability of upstream slope of the dam shall be checked. Center line of the spillway shall be shifted to left side. Center line of supercritical flow portion shall be straight. Weir shall be provided in the spillway. Center line of conduit is recommended to be straight.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
Review	: 0	EIRR : 16.9
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : A
Construction	:	Implementation Schedule:
Dam	: 4,138	Review : -
Irrigation	: 1,775	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1994; 6 months
Watershed Protection	: 4,960	
Grand Total	: 10,873	

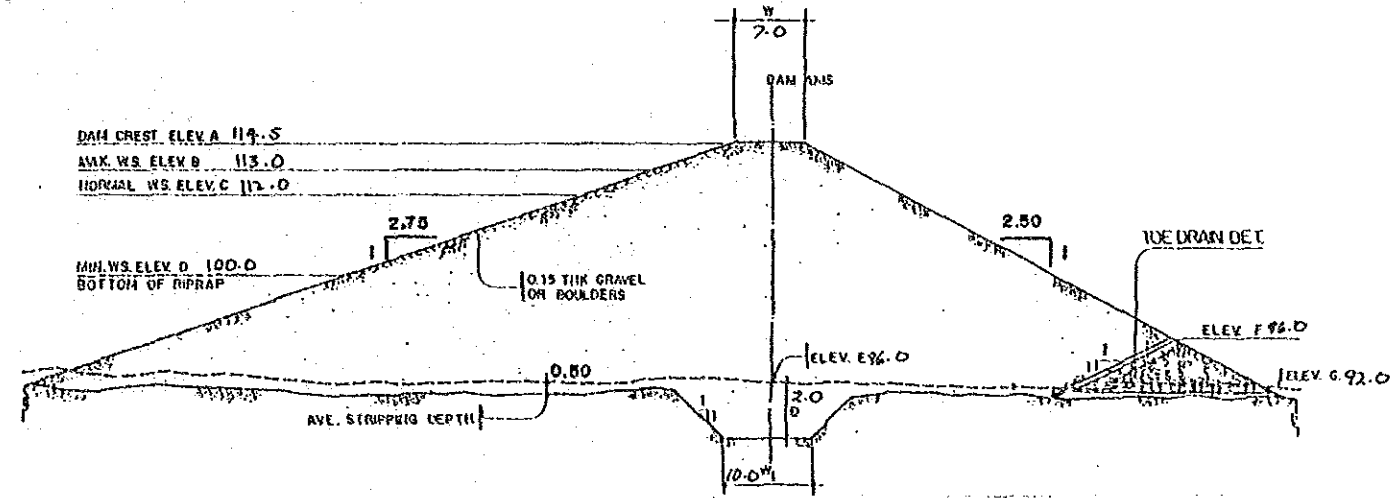


SWIM PROJECT PROFILE		File No. : 162
Regist. No. : Agency No. : BSWM-76	Name: BALBALUNGAO SWIP	
Region: 3	Province: NUEVA ECIJA	Municipality: LUPAO
Present Status: 1. Pre-F/S() ② F/S(1987) ③ D/D(1987)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 19 m
	: Effective Storage Capacity	: 365,540 m ³
	: Embankment Volume	: 110,500 m ³
	: Design Flood Discharge	: 17 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 54 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 10 ton/year
Technical Assessment:		
1. Survey and Investigation:		
Depth of test pit or auger boring is not enough.		
Bearing capacity and permeability are not measured.		
Available volume for dam embankment shall be studied before construction.		
2. Planning		
Environmental conservation plan is not formulated.		
Project planning shall be re-formulated.		
3. Design		
Stability of upstream slope of the dam shall be checked.		
Design discharge shall be estimated based on 100 year's flood or more.		
Center line of the spillway shall be shifted to right side.		
Center line of supercritical flow portion shall be straight.		
Weir shall be provided in the spillway.		
Center line of conduit is recommended to be straight.		
4. Operation and Maintenance		
Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 93	EIRR : 6.1 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 10,507	Implementation Schedule:
Dam	: 1,109	Review : 1992
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,313	Construction: Jan.2000;12 months
Watershed Protection	: 13,022	
5. Grand Total	: 13,022	

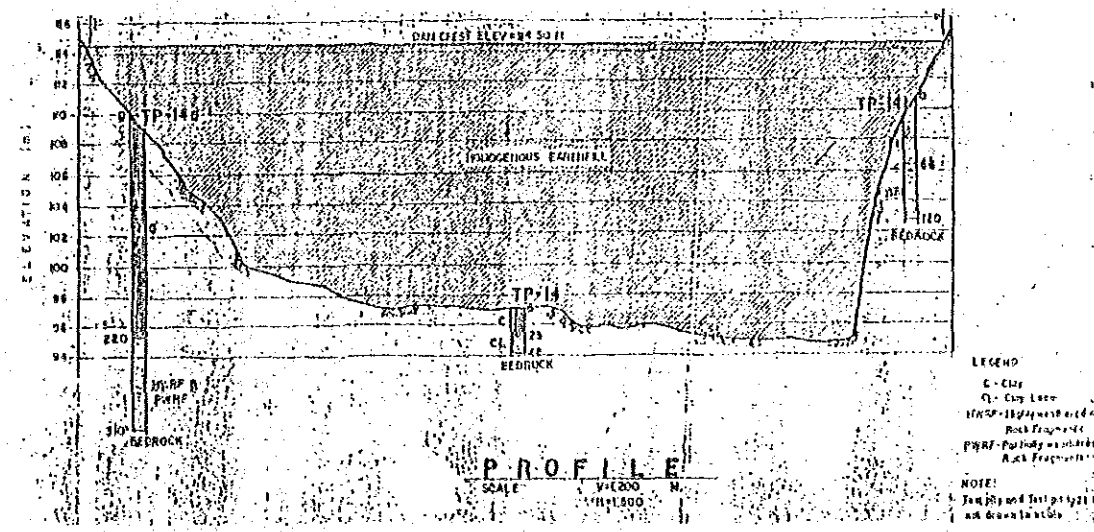
Layout:



Typical Dam Section:



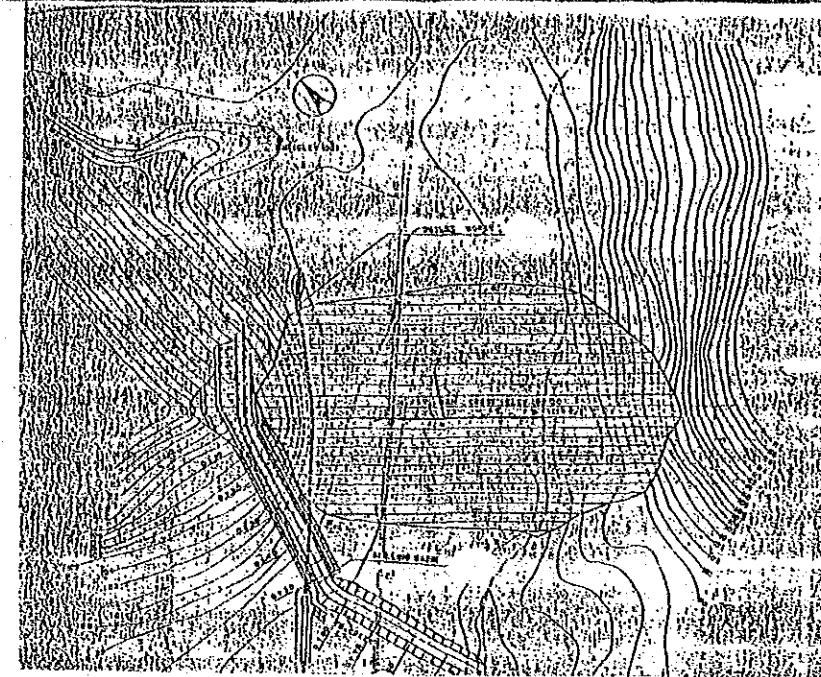
Profile of Dam Axis:



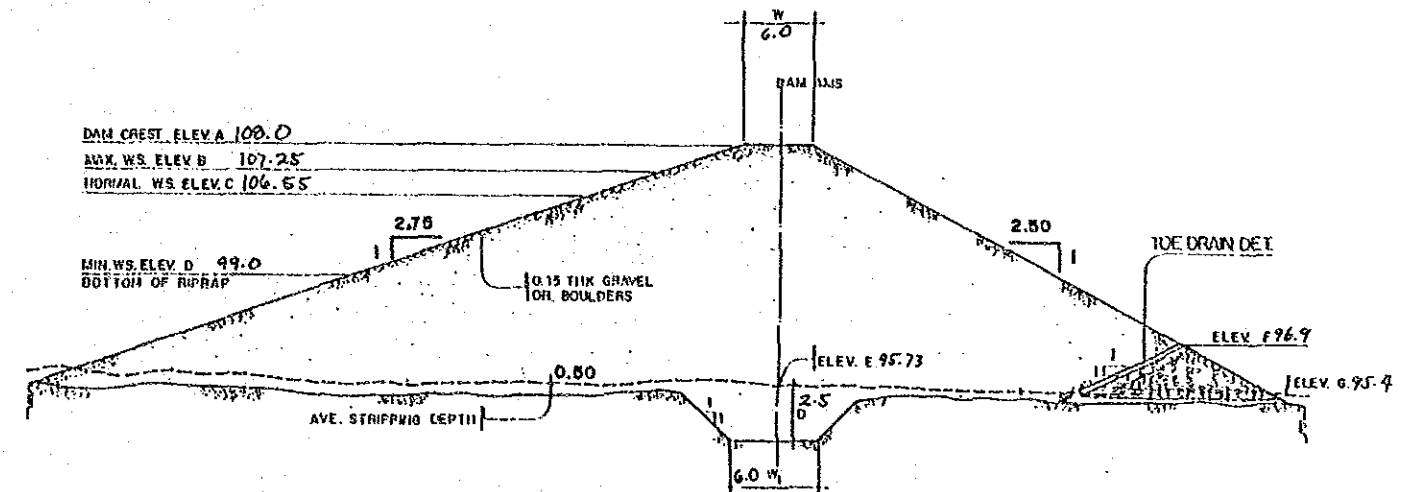
Note: Foundation rock is metamorphic grey wacke. Confirmation of permeability in the grey wacke and depth of up layer's clay shall be done.

SWIM PROJECT PROFILE		File No. : 163
Regist. No. : Agency No. : BSWM-77	Name : LAGUNLONG SWIP	
Region : 4	Province : ORIENTAL MINDORO	Municipality : BACO
Present Status: 1. Pre-F/S() (2) F/S(1985) (3) D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 12 m
	: Effective Storage Capacity	: 219,182 m ³
	: Embankment Volume	: 38,600 m ³
	: Design Flood Discharge	: 6 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 18 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 8 ton/year
Technical Assessment:		
1. Survey and Investigation:		
Depth of test pit or auger boring is not enough.		
Bearing capacity and permeability are not measured.		
Available volume for dam embankment shall be studied before construction.		
2. Planning		
Environmental conservation plan is not formulated.		
3. Design		
Depth of core trench shall be modified during construction.		
Stability of upstream slope of the dam shall be checked.		
Weir shall be provided in the spillway.		
Center line of conduit is recommended to be straight.		
4. Operation and Maintenance		
Not studied.		
Funding Requirement: (1,000 Posos)		Project Evaluation:
Review	: 0	EIRR : 13.9 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : A
Construction	: 3,826	(OECF Candidate)
Dam	: 1,109	Implementation Schedule:
Irrigation	: 0	Review : -
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 437	D/D : Completed
Watershed Protection	: 5,372	Construction: within 1st 5 years
Grand Total		

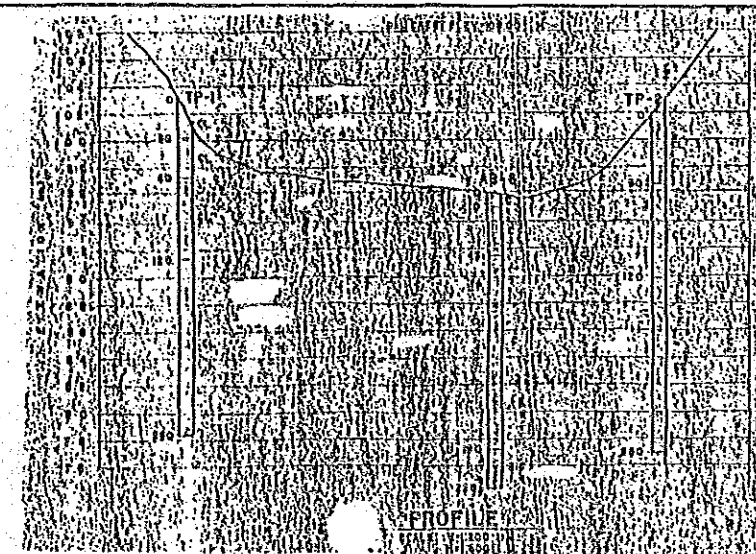
Layout:



Typical Dam Section:



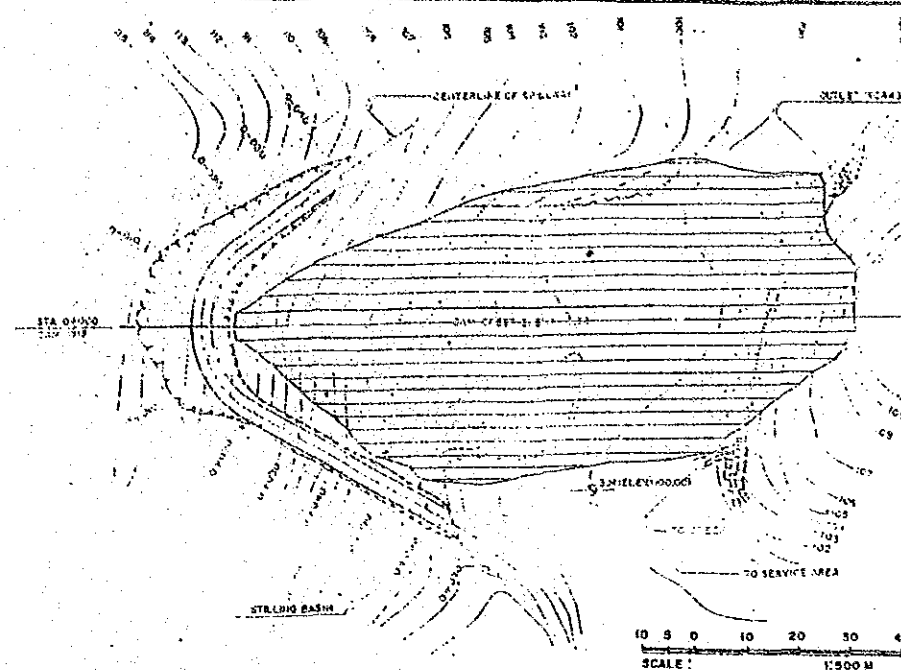
Profile of Dam Axis:



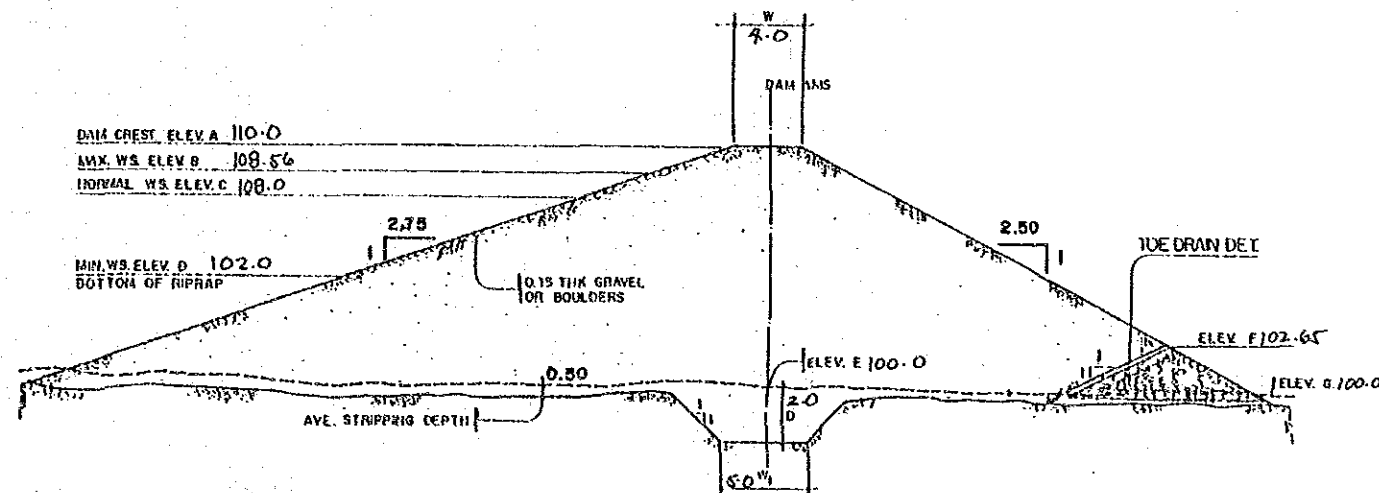
Note: Silty clay blanket with 2.0 m depth is piled up on the tufaceous sand stone.

SWIM PROJECT PROFILE		File No. : 164
Regist. No. : Agency No. : BSWM-78	Name: PAKALA II SWIP	
Region: 4	Province: ORIENTAL MINDORO	Municipality: BAGO
Present Status: 1. Pre-F/S() (2) F/S(1985) (3) D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 10 m
	: Effective Storage Capacity	: 155,640 m ³
	: Embankment Volume	: 28,000 m ³
	: Design Flood Discharge	: 6 m ³ /sec.
2. Irrigation	: Irrigation Area	: 75 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 18 ha
5. Water Supply	: Design Supply Capacity	: 0 m ³ /day
6. Inland Fishery	: Annual Production	: 5 ton/year
Technical Assessment:		
1. Survey and Investigation:		
Depth of test pit or auger boring is not enough.		
Bearing capacity and permeability are not measured.		
Available volume for dam embankment shall be studied before construction.		
2. Planning		
Environmental conservation plan is not formulated.		
3. Design		
Depth of core trench shall be modified during construction.		
Stability of upstream slope shall be checked.		
Weir shall be provided in the spillway.		
Center line of conduit is recommended to be straight.		
4. Operation and Maintenance		
Not studied.		
Grand Requirement: (1,000 Pesos)		Project Evaluation:
Review	: 0	EIRR : 17.5 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : B
Construction	: 0	Implementation Schedule:
Dam	: 3,737	Review : -
Irrigation	: 1,664	P/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1996; 9 months
Watershed Protection	: 437	
Grand Total	: 5,838	

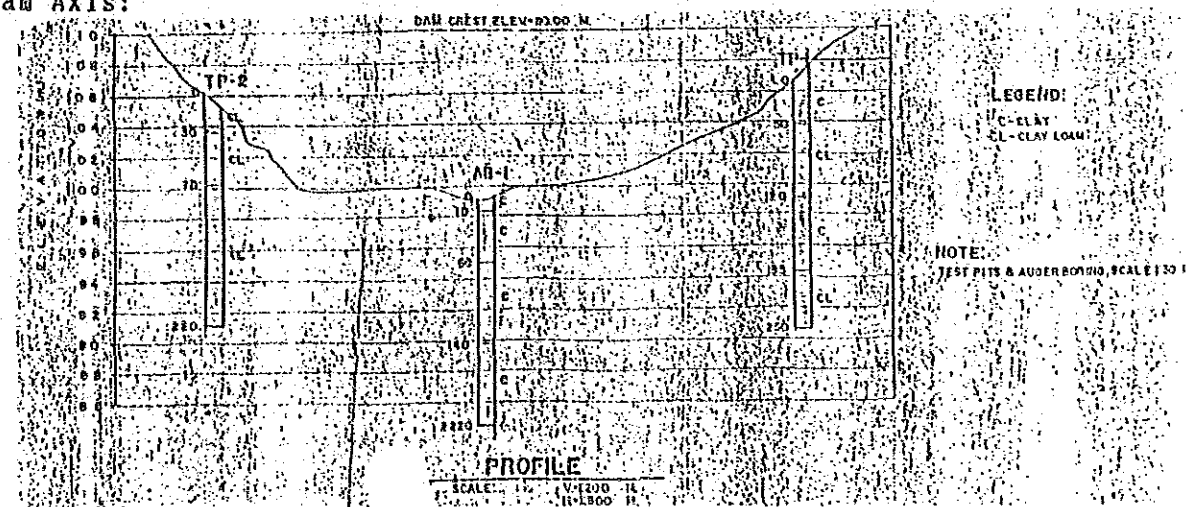
Layout:



Typical Dam Section:



Profile of Dam Axis:

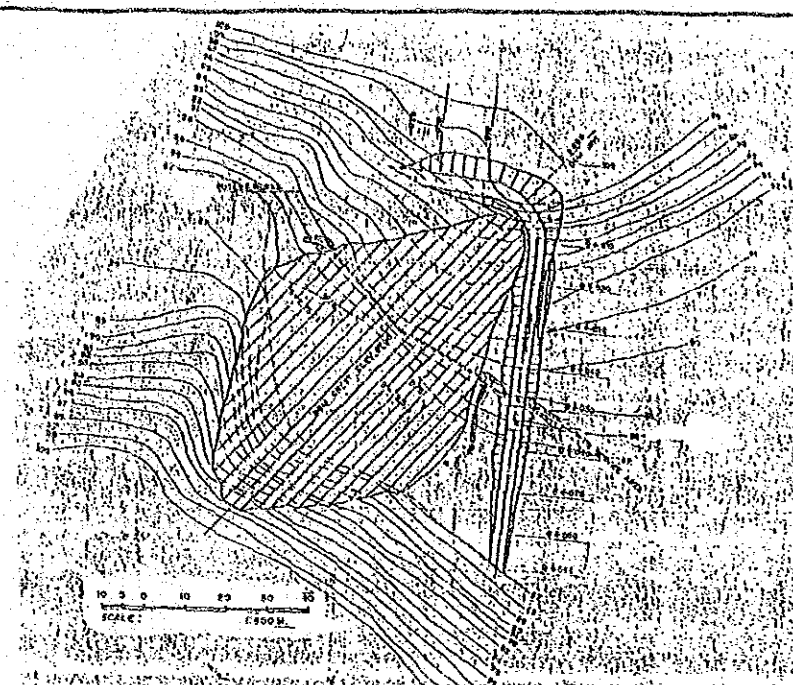


Note:

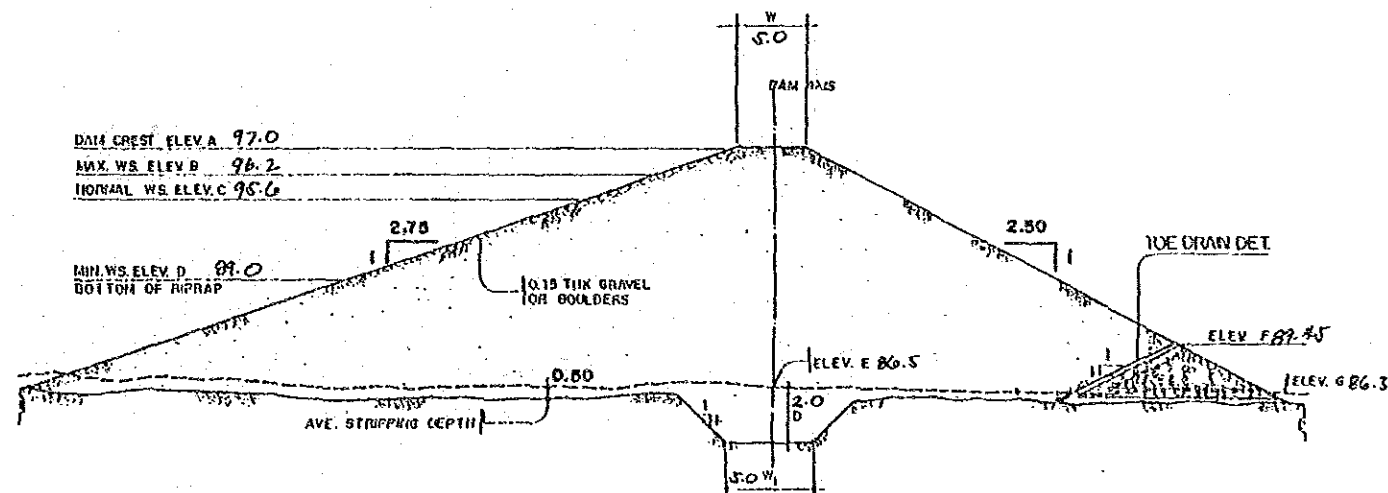
silty clay blanket with 2.0 m depth is piled up on the tufaceous sand stone, silty stone and shale.

SWIM PROJECT PROFILE		File No. : 165
Regist. No. : Agency No. : BSWM-70	Name: BAYUIN SWIP	
Region: 4	Province: ORIENTAL MINDORO	Municipality: SOCORRO
Present Status: 1. Pre-F/S() ② F/S(1985) ③ D/D(1985)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : HOMOGENEOUS EARTHFILL	
	Dam Height : 11 m	
	Effective Storage Capacity : 91,323 m ³	
	Embankment Volume : 19,300 m ³	
	Design Flood Discharge : 4 m ³ /sec.	
2. Irrigation	Irrigation Area : 45 ha	
3. Mini-hydropower	Installed Capacity : 0 kW	
4. Watershed Man.	Watershed Protection Area : 12 ha	
5. Water Supply	Design Supply Capacity : 0 m ³ /day	
6. Inland Fishery	Annual Production : 3 ton/year	
Technical Assessment:		
1. Survey and Investigation: Depth of test pit or auger boring is not enough. Bearing capacity and permeability are not measured. Available volume for dam embankment shall be studied before construction.		
2. Planning Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of upstream slope of the dam shall be checked. Center line of the spillway shall be shifted to left side. Weir shall be provided in the spillway. Center line of conduit is recommended to be straight.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 15.6 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction		(OECF Candidate)
Dam	: 2,813	Implementation Schedule:
Irrigation	: 998	Review : -
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 0	D/D : Completed
Watershed Protection	: 291	Construction: within 1st 5 years
5. Grand Total	: 4,102	

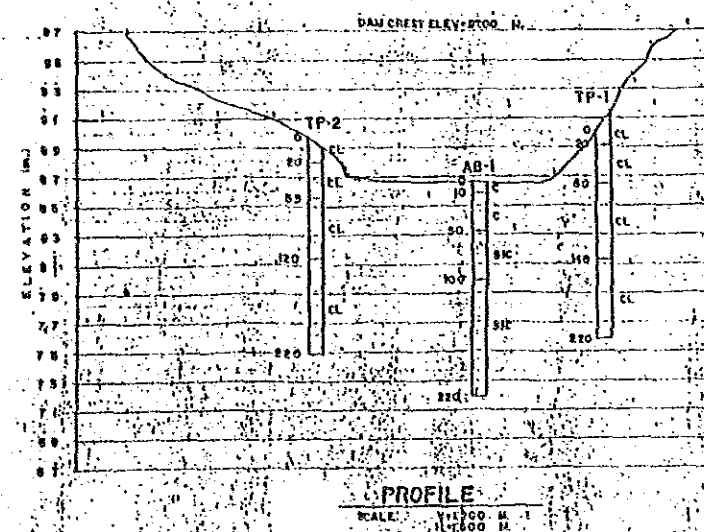
Layout:



Typical Dam Section:



Profile of Dam Axis:



Note:

silty clay with 2.0 m depth is piled up on the mud, sand and silty stone and shale.