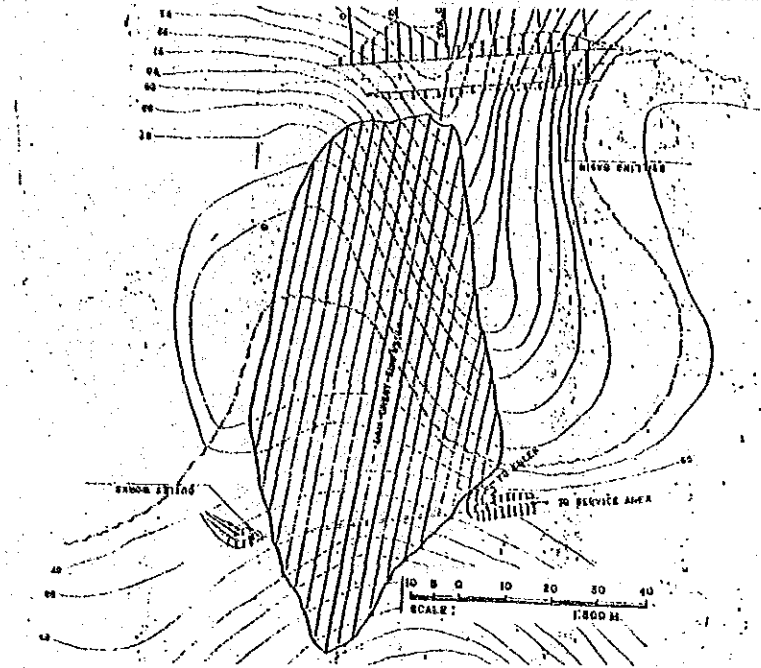
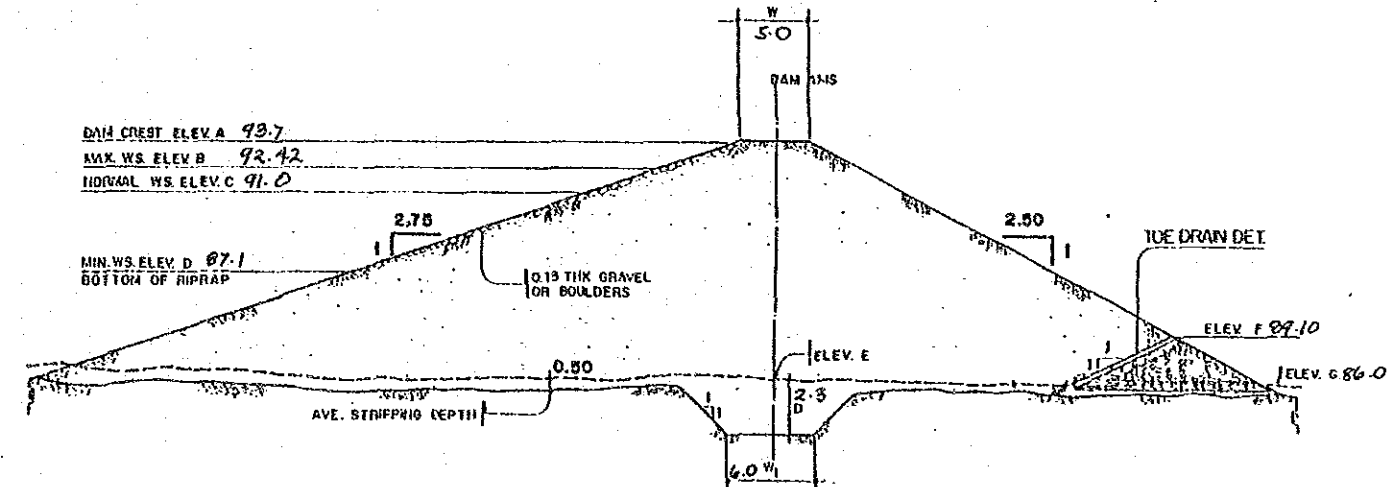


SWIM PROJECT PROFILE		File No. : 100
Regist. No. : Agency No. : BSWM-10	Name: PAMARANUN SWIP	
Region: 1	Province: PANGASINAN	Municipality: MALASIQUI
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 8 m
	: Effective Storage Capacity	: 67,253 m ³
	: Embankment Volume	: 15,000 m ³
	: Design Flood Discharge	: 19 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	: 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		
Annual production of inland fishery is over-estimated.		
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 : 16.9 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 2,021	Implementation Schedule:
Dam	: 1,109	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,740	Construction: Jul.1986; 6 months
Watershed Protection	: 4,871	
5. Grand Total		

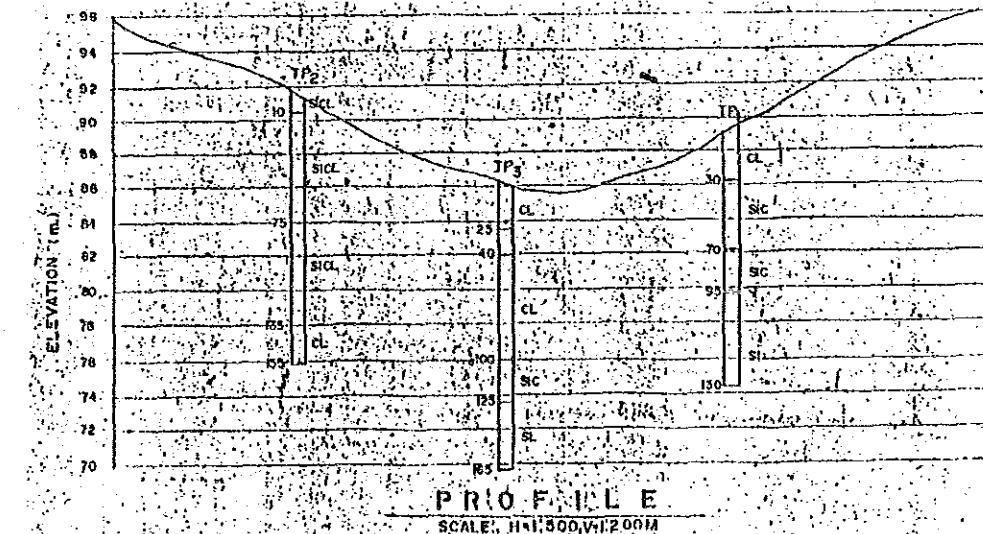
Layout:



Typical Dam Section:



Profile of Dam Axis:

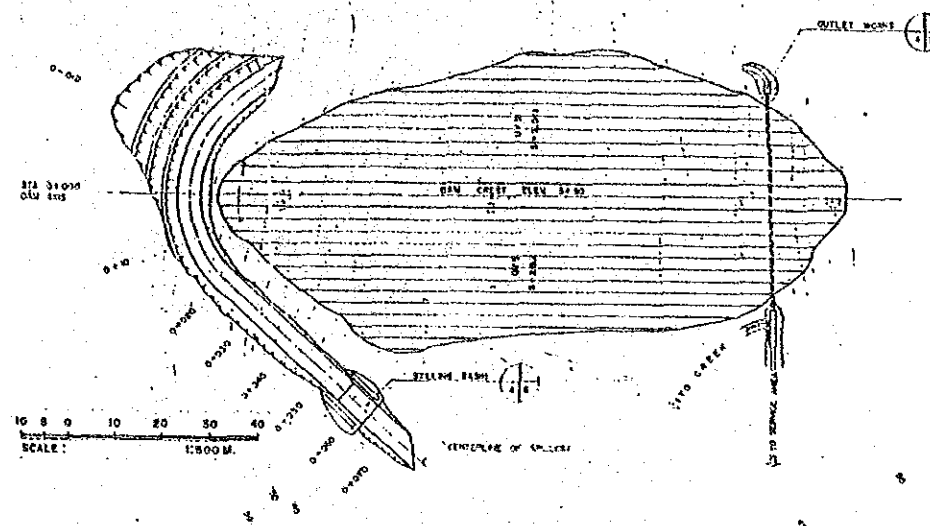


Note:

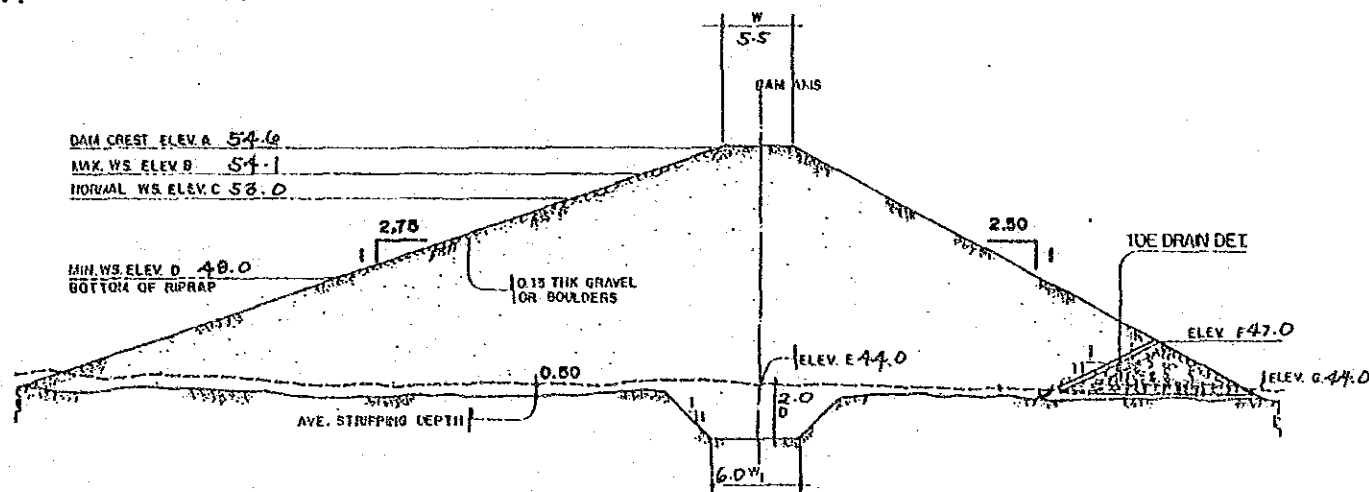
Silty clay with 1.5 m depth covers the shale, sand and mud stone.

SWIM PROJECT PROFILE		File No. : 101
Regist. No. : Agency No. : BSWM-11	Name : CAPARISPISAN SWIP	
Region : 1	Province : ILOCOS NORTE	Municipality : PAGUDPUD
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	: 140,707 m ³
	: Embankment Volume	: 33,945 m ³
	: Design Flood Discharge	: 14 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 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	: 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. 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	: 40	EIRR : 15.1 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 3,955	Implementation Schedule:
Dam	: 1,109	Review : 1996
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 877	Construction: Jul. 1997; 6 months
Watershed Protection	: 5,981	
5. Grand Total		

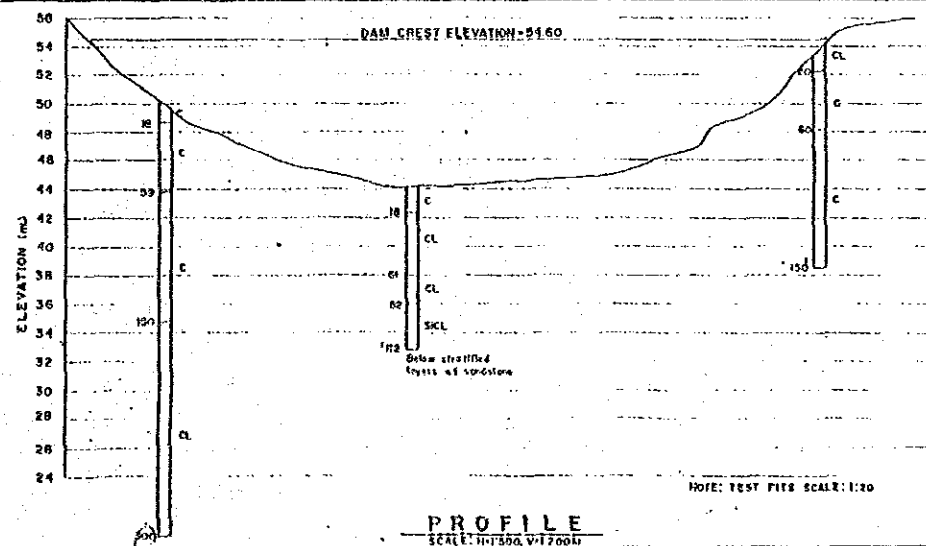
Layout:



Typical Dam Section:



Profile of Dam Axis:

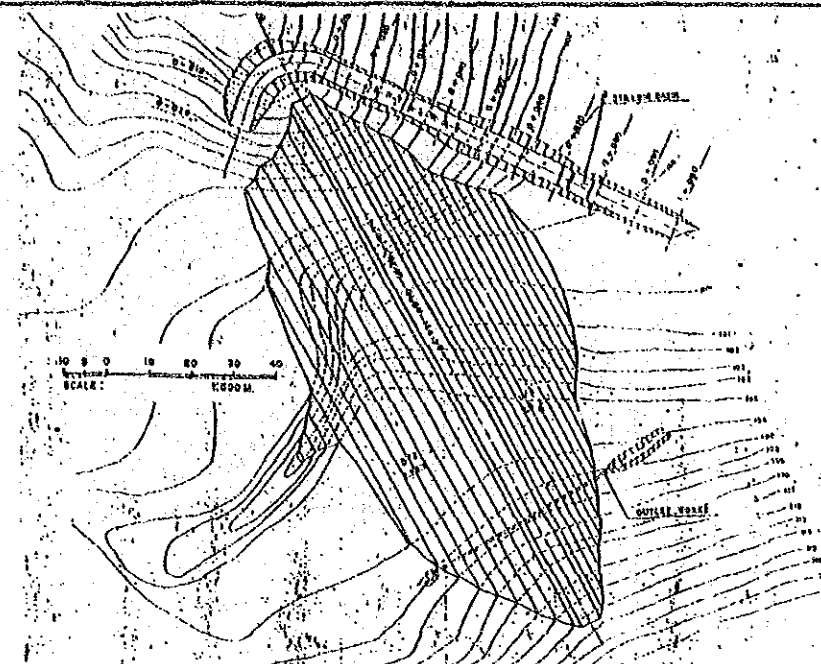


Note:

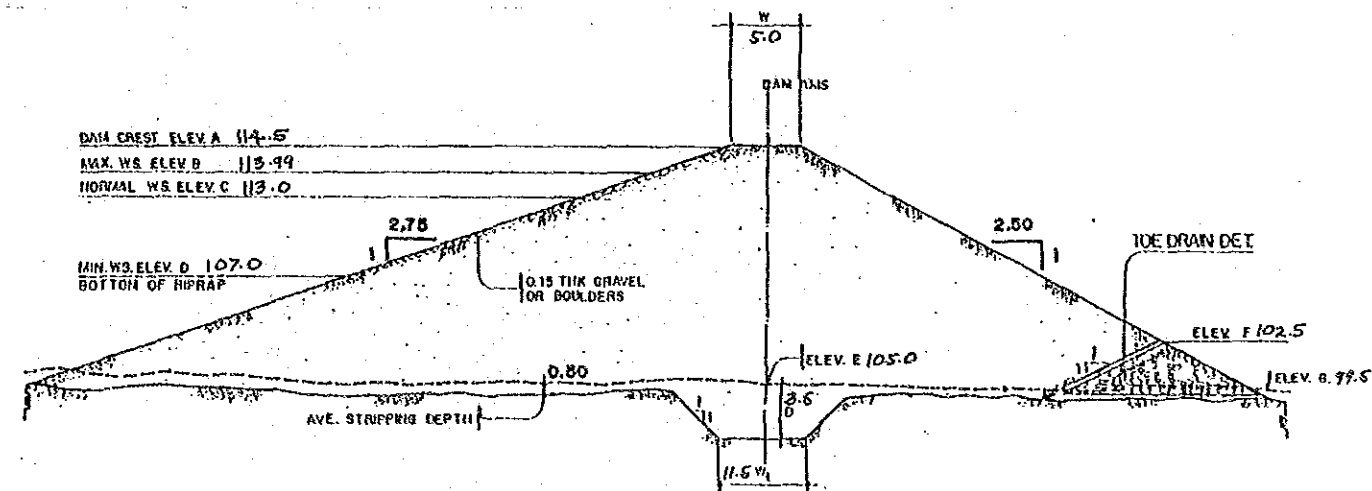
Silty clay with 3.0 m depth covers the sand stone and shale. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 102
Regist. No. : Agency No. : BSWM-12	Name : PATONG SWIP	
Region : 1	Province : ILOCOS SUR	Municipality : MAGSINGAL
Present Status : 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Features:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 16 m
	: Effective Storage Capacity	: 109,554 m3
	: Embankment Volume	: 38,000 m3
	: Design Flood Discharge	: 10 m3/sec.
2. Irrigation	: Irrigation Area	: 100 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 90 ha
5. Water Supply	: Design Supply Capacity	: 0 m3/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. Magnitude of design discharge is very less.		
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	: 4,057	Implementation Schedule:
Dam	: 2,219	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,320	Construction: Jan. 1989; 6 months
Watershed Protection	: 7,596	
5. Grand Total	: 7,596	

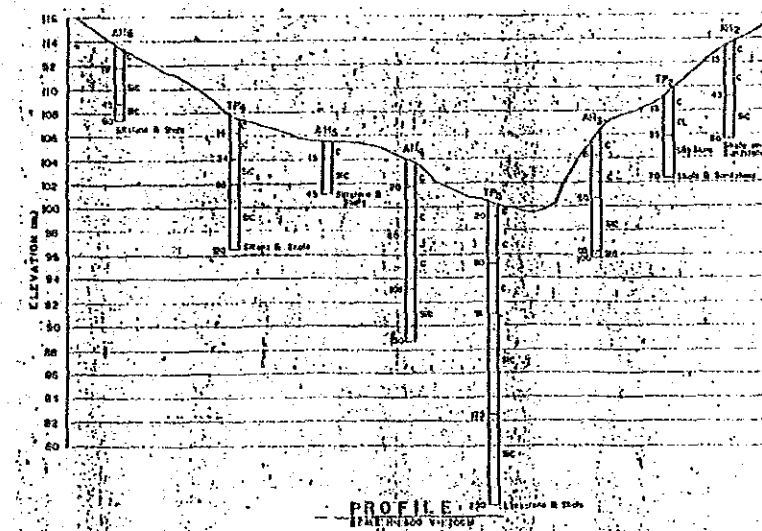
Layout:



Typical Dam Section:



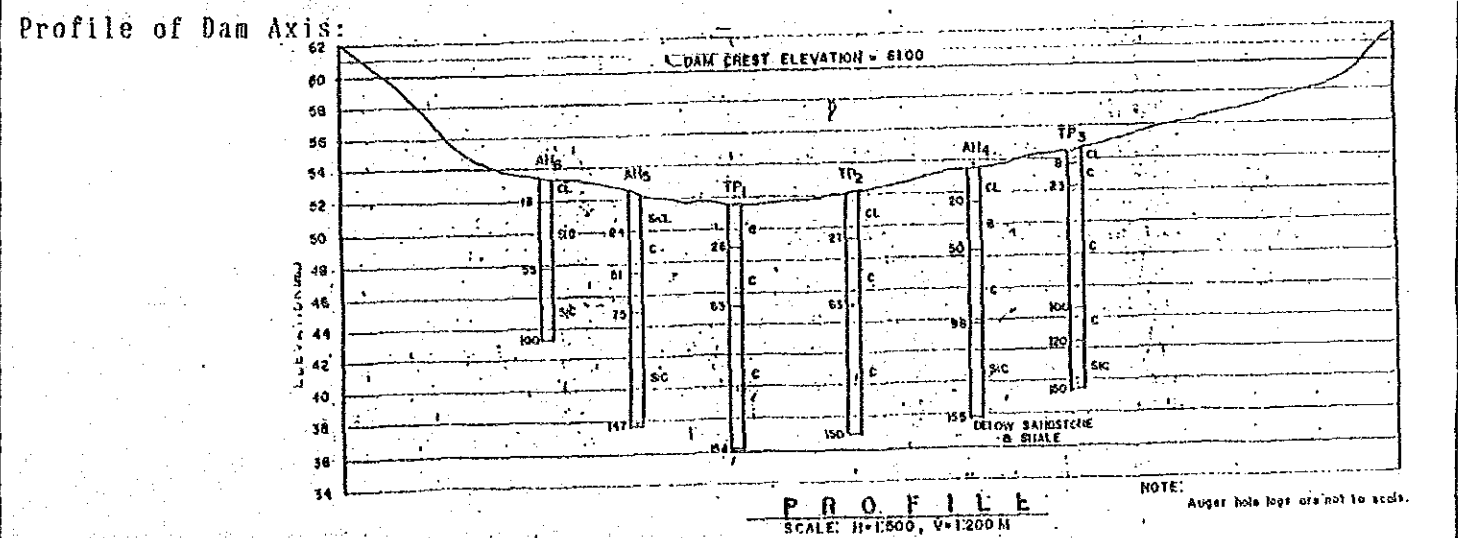
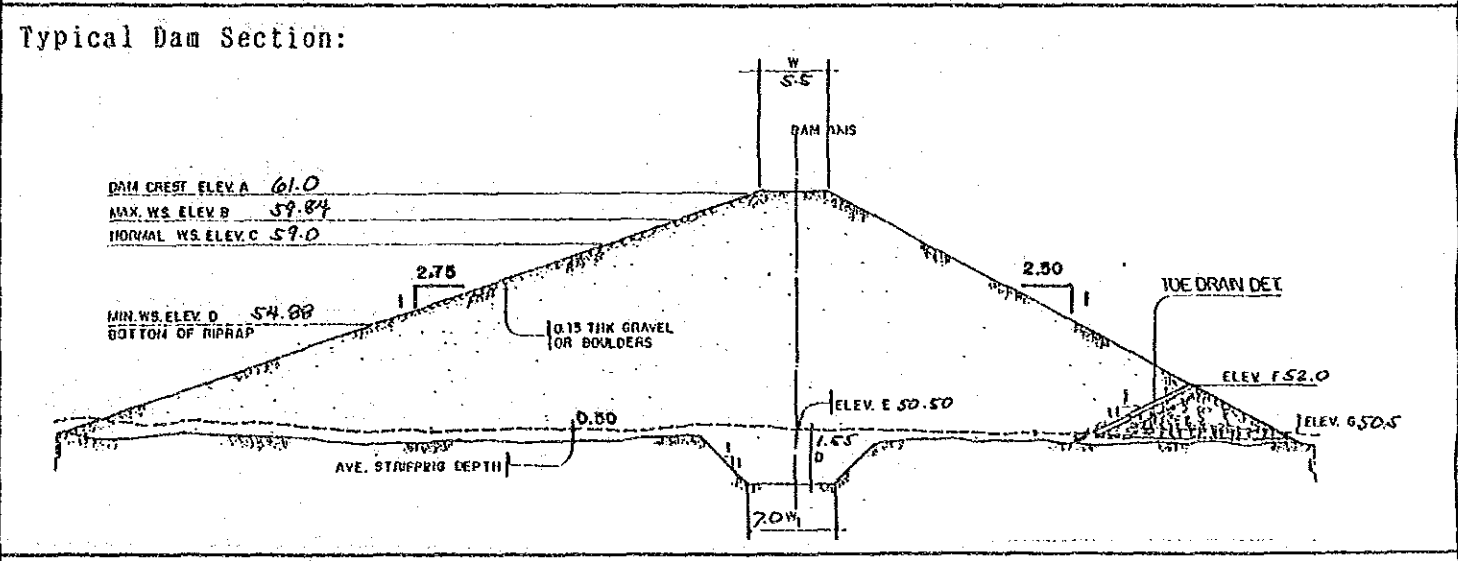
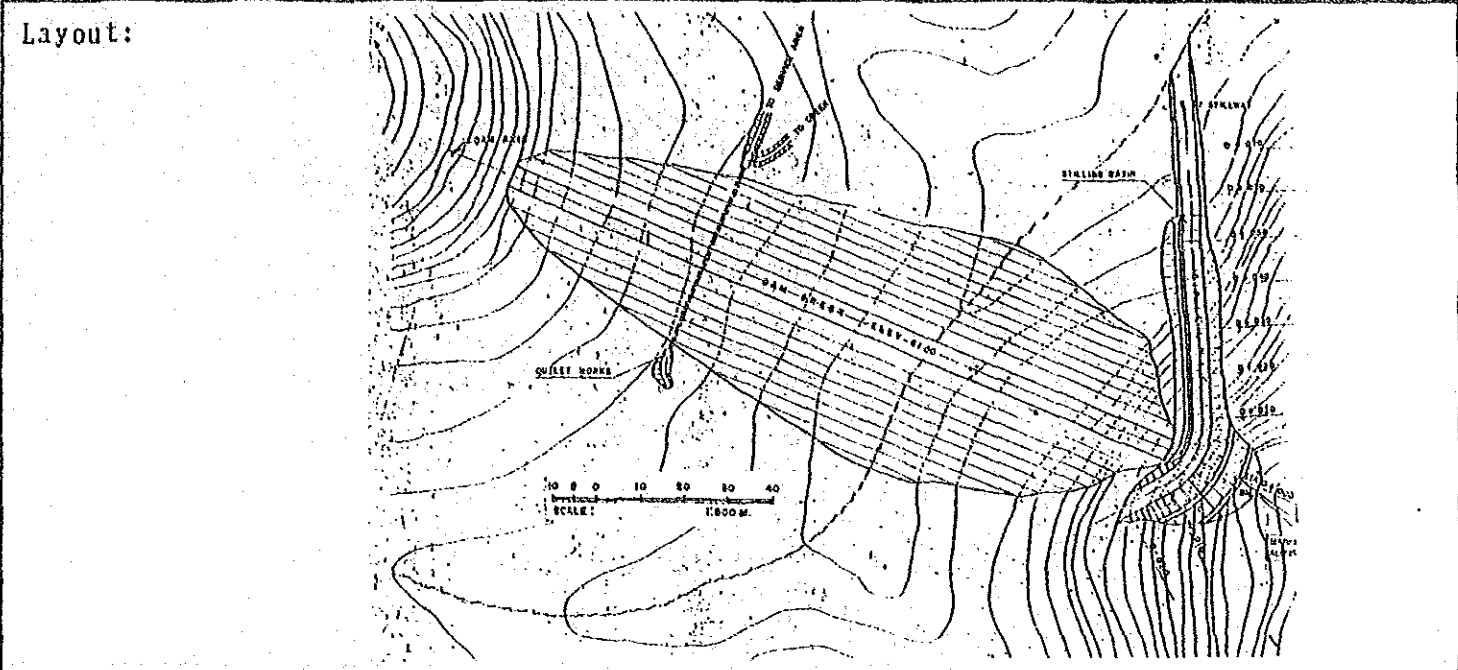
Profile of Dam Axis:



Note:

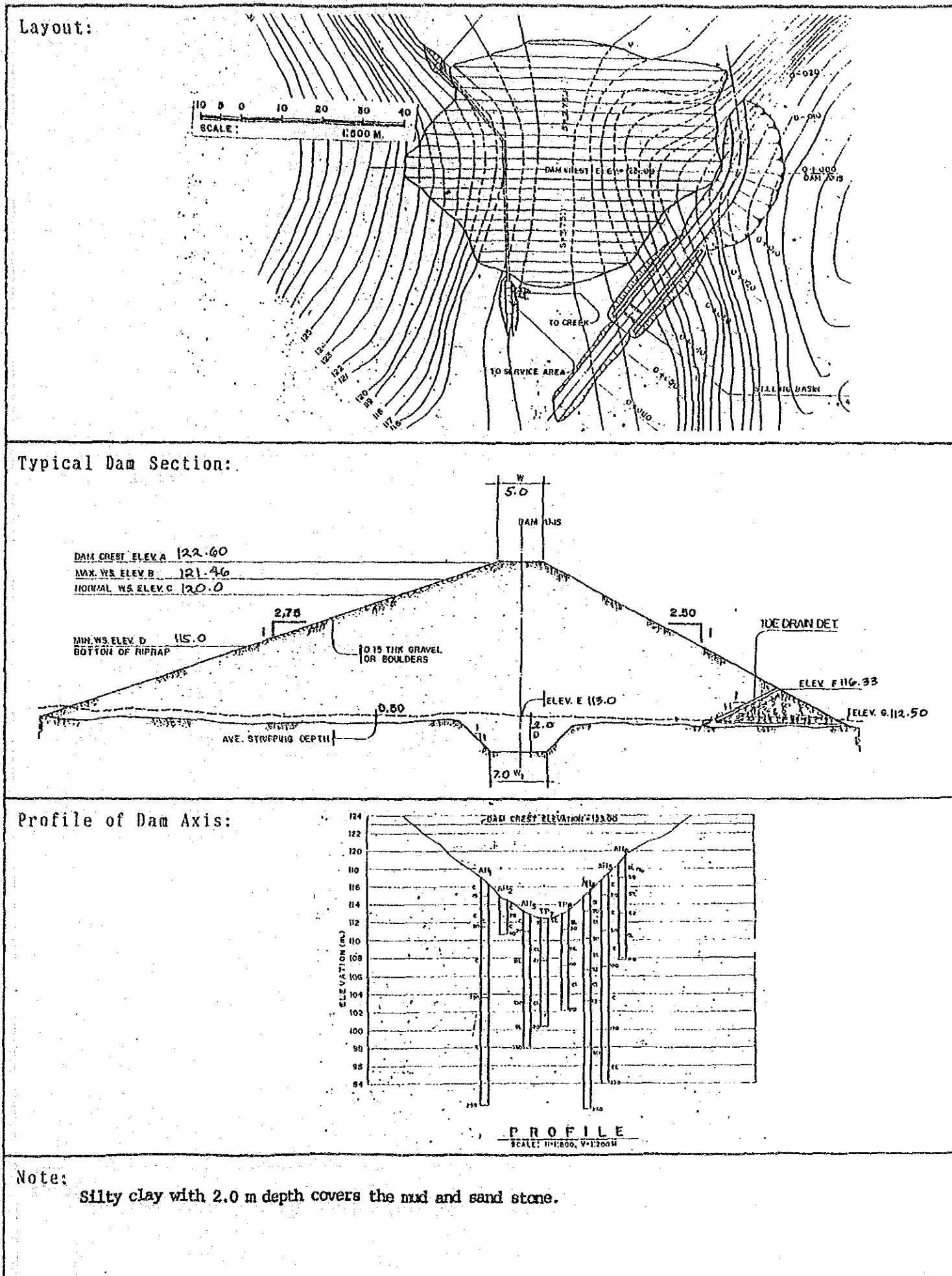
Silty clay with 1.0 m depth covers the sand stone, shale and silty stone. Magnitude of design discharge should be more than 100 years flood.

SWIM PROJECT PROFILE		File No. : 103
Regist. No. : Agency No. : BSWM-13	Name: SAMAG SWIP	
Region: 1	Province: ILOCOS NORTE	Municipality: SAN NICOLAS
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	: 87,990 m ³
	: Embankment Volume	: 32,000 m ³
	: Design Flood Discharge	: 10 m ³ /sec.
2. Irrigation	: Irrigation Area	: 20 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 40 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. 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	: 36	EIRR : 2.1 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 4,113	Implementation Schedule:
Dam	: 444	Review : 1993
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 580	Construction: Jul.2000; 6 months
Watershed Protection	: 1,113	
5. Grand Total	: 5,129	



Note: Silty clay with 1.5 m depth covers the sand stone and shale.

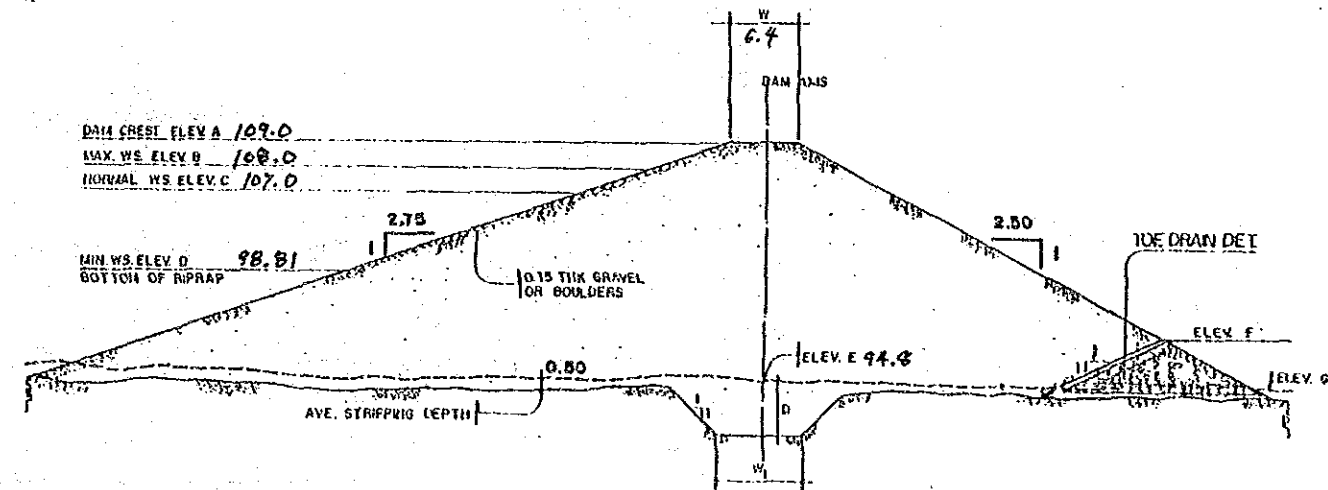
SWIM PROJECT PROFILE		File No. : 104
Regist. No. : Agency No. : BSWM-14	Name : MABINI SWIP	
Region : 1	Province : PANGASINAN	Municipality : BALUNGAO
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IP, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 10 m 159,683 m ³ 13,000 m ³ 18 m ³ /sec.
2. Irrigation	Irrigation Area :	80 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	100 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 Annual production of inland fishery is over-estimated. Environmental conservation plan is not formulated.		
3. Design Depth of core trench shall be modified during construction. Stability of Up stream slope of dam shall be checked by stability 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 : 20.2 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 2,547	Implementation Schedule:
Dam	: 1,775	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,463	Construction: Jul. 1993; 6 months
Watershed Protection	: 5,785	
5. Grand Total		



SWIM PROJECT PROFILE		File No. : 105
Regist. No. : Agency No. : BSWM-15	Name: SAN GONZALO SWIP	
Region: 1	Province: PANGASINAN	Municipality: LABRADOR
Present Status: 1. Pre-F/S() (2) F/S(1983) (3) D/D(1983)		
Purpose: Major : Irrigaion Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 15 m
	: Effective Storage Capacity	: 169,958 m ³
	: Embankment Volume	: 54,800 m ³
	: Design Flood Discharge	: 14 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 70 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.		
Dam plan shall be prepared.		
4. Operation and Maintenance		
Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 52	EIRR : 11.8 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 5,412	Implementation Schedule:
Dam	: 1,109	Review : 1992
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,017	Construction: Jan. 1993; 9 months
Watershed Protection	: 7,590	
5. Grand Total		

Layout:

Typical Dam Section:

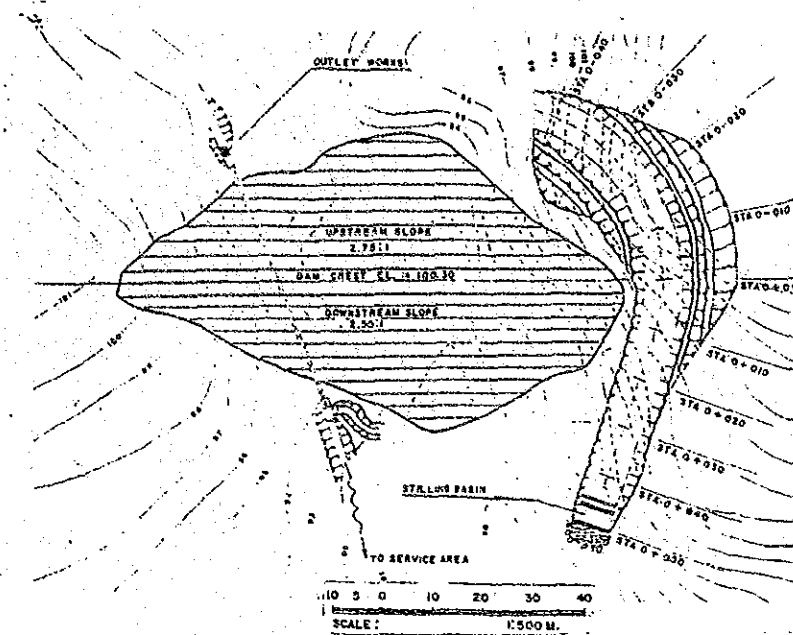


Profile of Dam Axis:

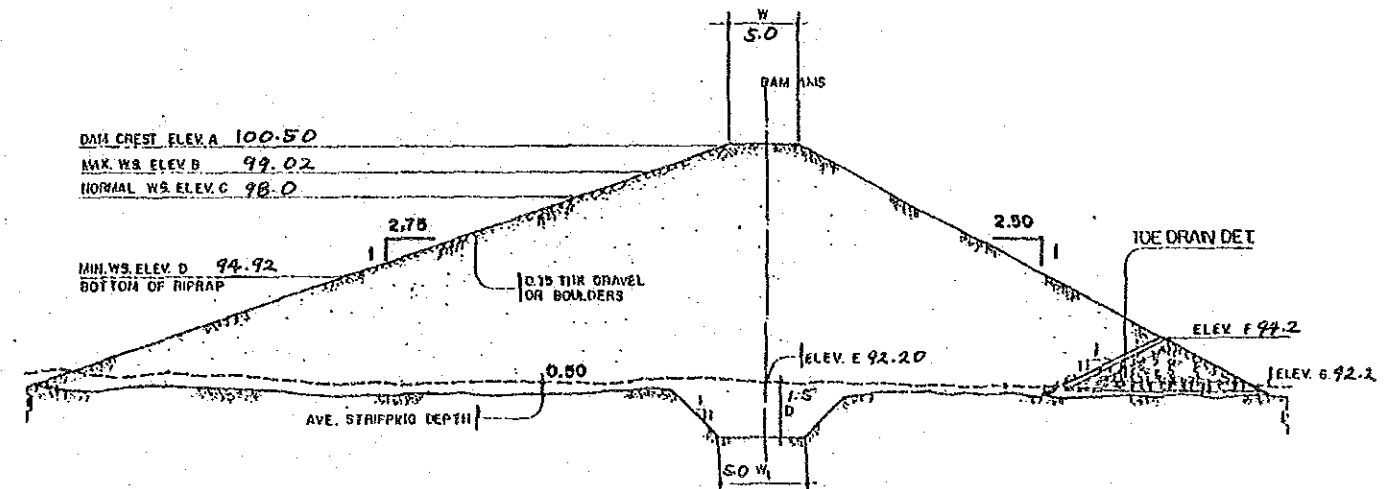
Note: Well consolidated clay with 2.0 m depth covers the metamorphosed shale.

SWIM PROJECT PROFILE		File No. : 106
Regist. No. : Agency No. : BSWM-16	Name: CAMAGSINGALAN SWIP	
Region: 1	Province: PANGASINAN	Municipality: SUAL
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigaion Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : HOMOGENEOUS EARTHFILL	
	Dam Height : 8 m	
	Effective Storage Capacity : 56,984 m ³	
	Embankment Volume : 13,375 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 : 70 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.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 22.6 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 2,065	Implementation Schedule:
Dam	: 1,220	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,017	Construction: Jul. 1991; 6 months
Watershed Protection	: 4,303	
5. Grand Total	: 4,303	

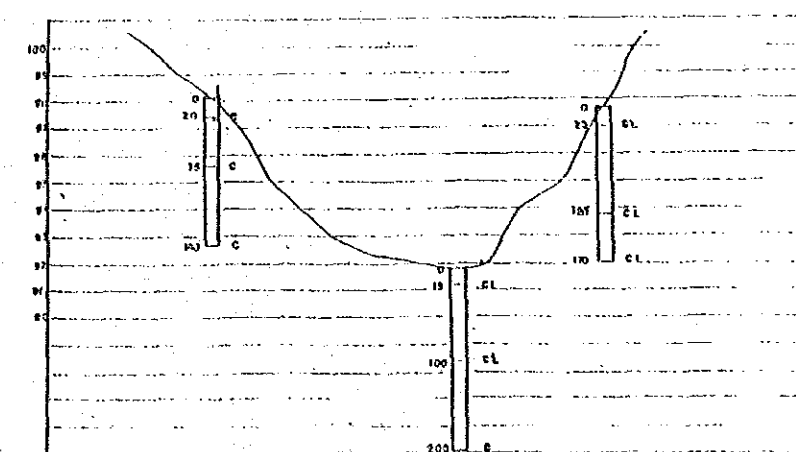
Layout:



Typical Dam Section:



Profile of Dam Axis:



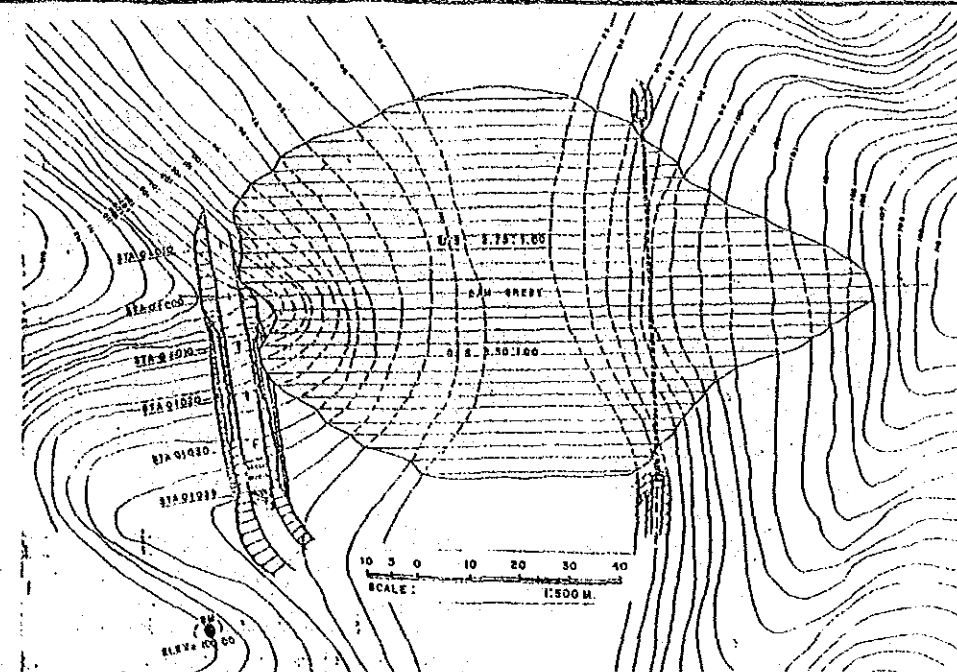
PROFILE

Note:

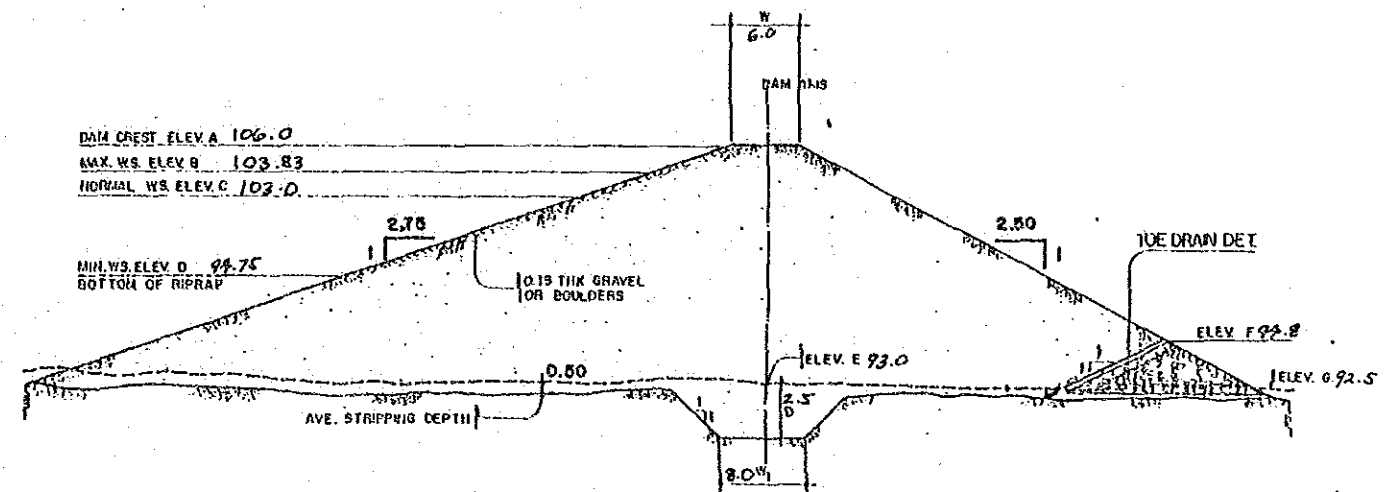
silty clay with 2.0 m depth covers the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 107
Regist. No. : Agency No. : BSWM-17	Name: PATAR SWIP	
Region: 1	Province: PANGASINAN	Municipality: MABINI
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 EARTH FILL
	: Dam Height	: 14 m
	: Effective Storage Capacity	: 329,656 m ³
	: Embankment Volume	: 32,800 m ³
	: Design Flood Discharge	: 11 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 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	: 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		
4. Operation and Maintenance		
Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 22.6 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 3,606	Implementation Schedule:
Dam	: 1,109	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 877	Construction: Jul. 1991; 6 months
Watershed Protection	: 5,592	
5. Grand Total		

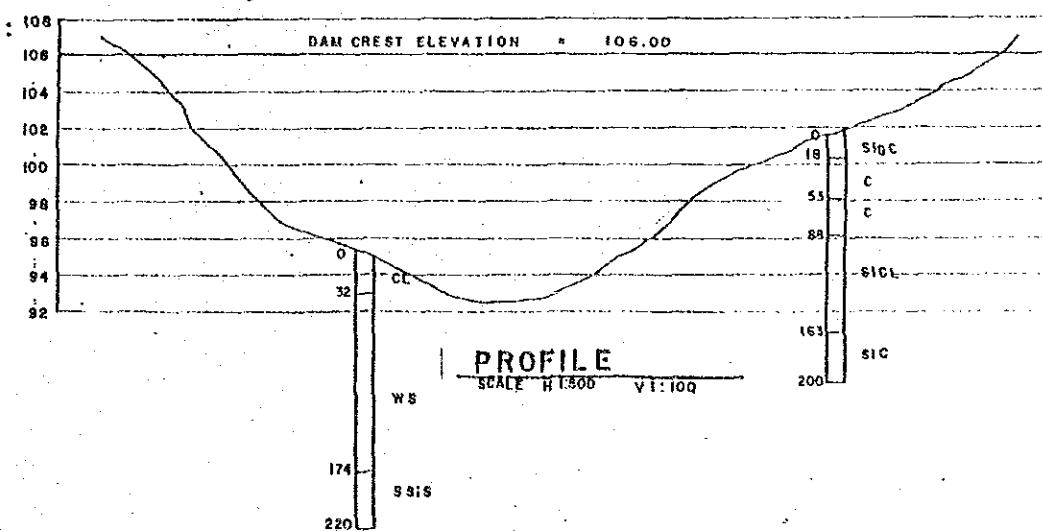
Layout:



Typical Dam Section:



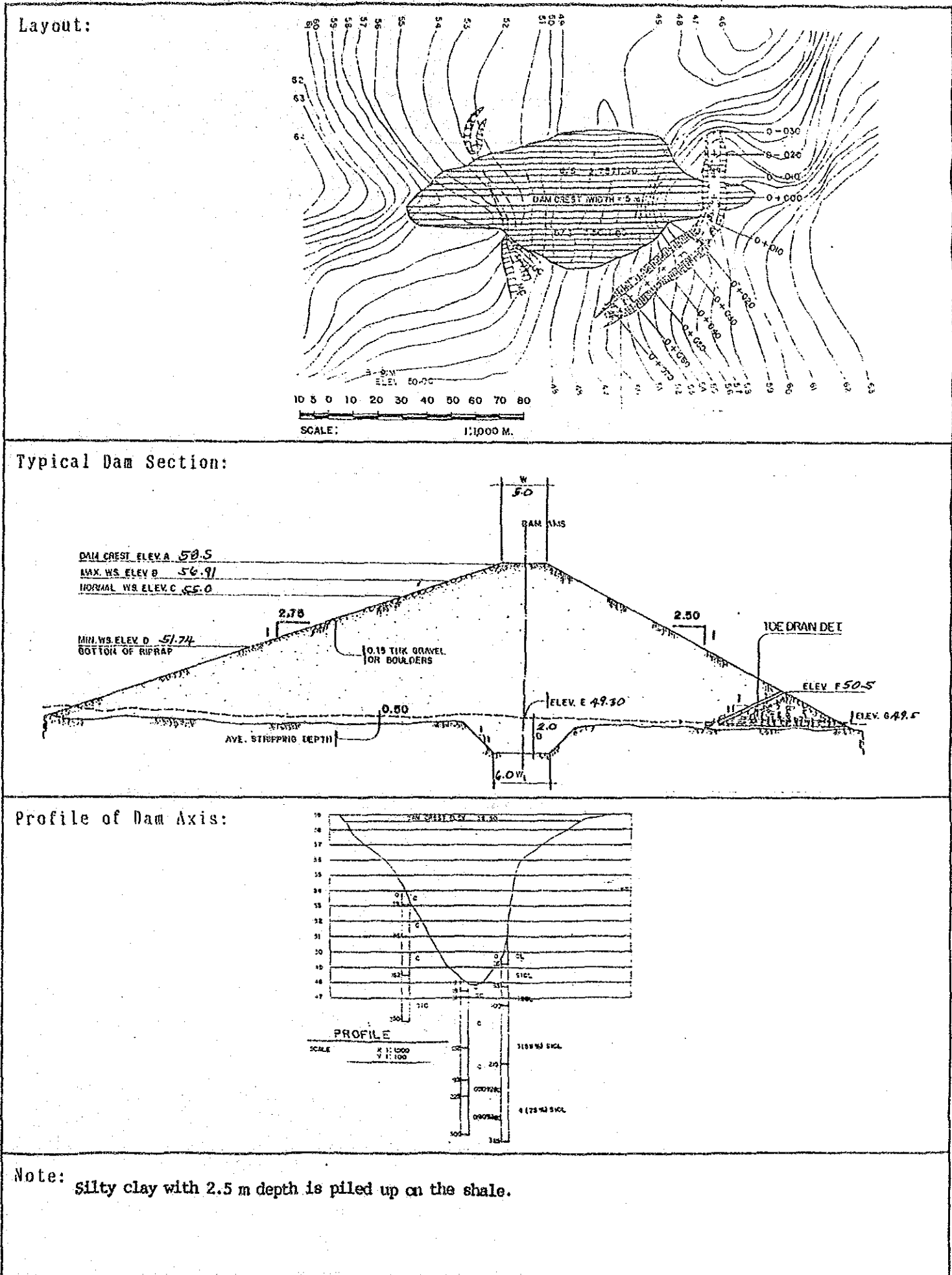
Profile of Dam Axis:



Note:

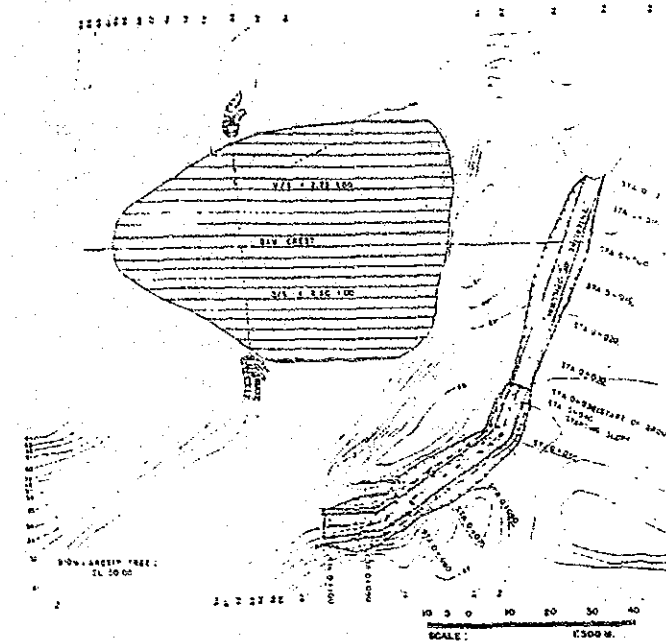
silty clay with 2.0 m depth is piled up on the shale.

SWIM PROJECT PROFILE		File No. : 108
Regist. No. : Agency No. : BSWM-18	Name : MALIMPIN SWIP	
Region : Province : PANGASINAN	Municipality : DASOL	
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	: 169,869 m ³
	: Embankment Volume	: 23,500 m ³
	: Design Flood Discharge	: 43 m ³ /sec.
2. Irrigation	: Irrigation Area	: 100 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 260 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. Compaction near the spillway shall be carefully carried out.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 21.4 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 2,932	Implementation Schedule:
Dam	: 2,932	Review : -
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1993; 6 months
Watershed Protection	: 3,792	
5. Grand Total	: 8,943	

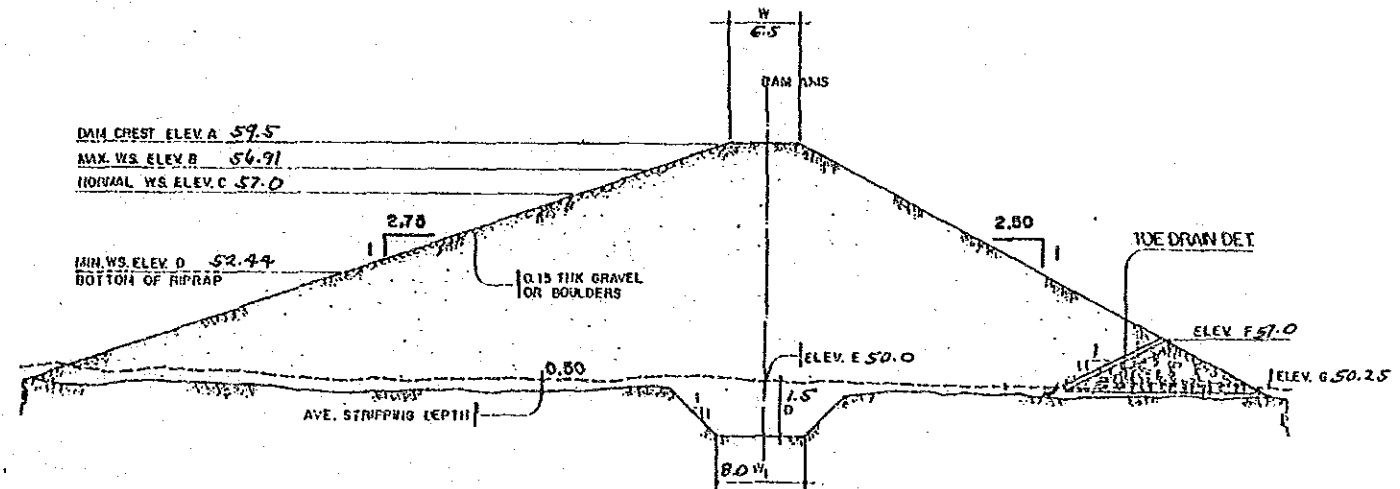


SWIM PROJECT PROFILE		File No. : 109
Regist. No. : Agency No. : BSWM-19	Name : VIGA SWIP	
Region : 1	Province : PANGASINAN	Municipality : DASOL
Present Status : 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 10 m
	: Effective Storage Capacity	: 167,670 m ³
	: Embankment Volume	: 18,600 m ³
	: Design Flood Discharge	: 14 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. Center line in supercritical flow portion shall be straight. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 29.3 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 2,348	Implementation Schedule:
Dam	: 1,553	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,170	Construction: Jul.1991;6 months
Watershed Protection	: 5,071	
5. Grand Total		

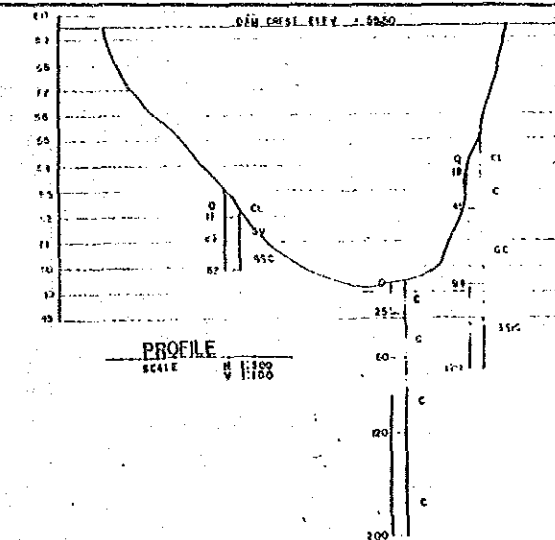
Layout:



Typical Dam Section:



Profile of Dam Axis:

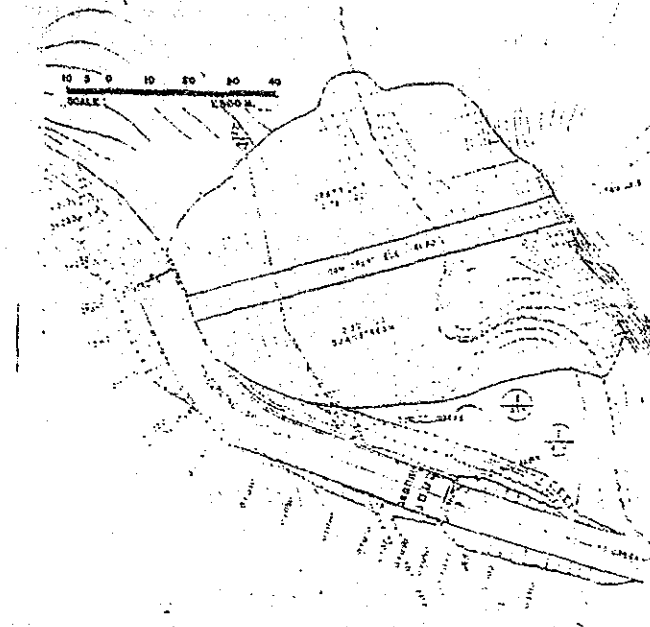


Note:

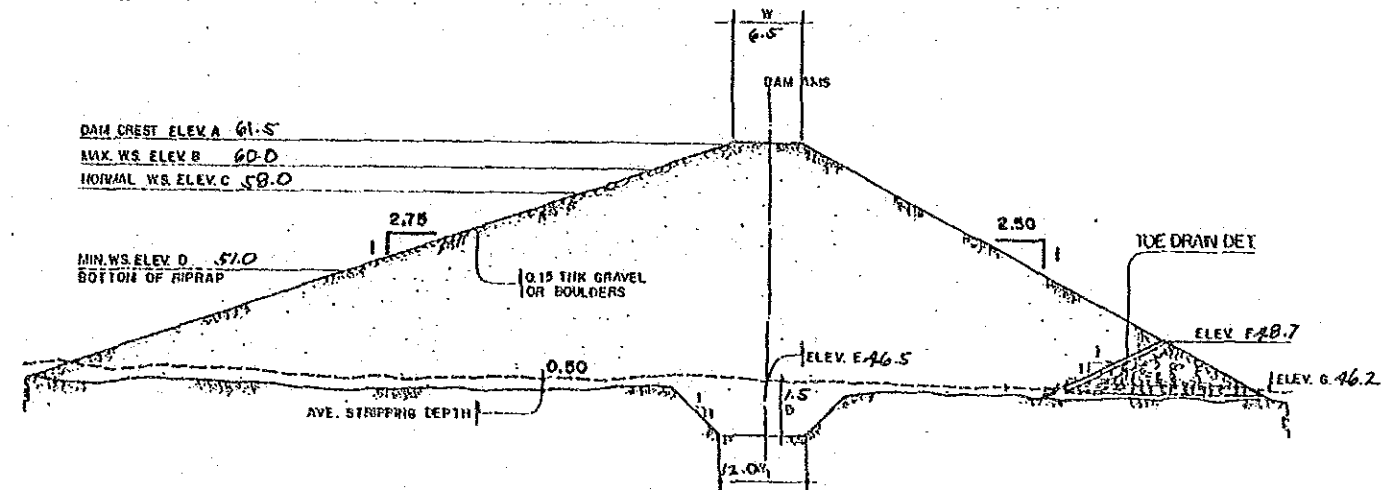
Silty clay with 1.5 m depth is piled up on Andesite.

SWIM PROJECT PROFILE		File No. : 110
Regist. No. : Agency No. : BSWM-20	Name : CABUOSAN SWIP	
Region : 1	Province : ILOCOS NORTE	Municipality : CURRIMAO
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	: 15 m
	: Effective Storage Capacity	: 446,635 m ³
	: Embankment Volume	: 44,000 m ³
	: Design Flood Discharge	: 53 m ³ /sec.
2. Irrigation	: Irrigation Area	: 75 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	: 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. Design discharge shall be estimated based on 100 year's flood or more. Weir shall be provided in the spillway. Center line of spillway shall be shifted to right 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 : 20.5 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 5,156	Implementation Schedule:
Dam	: 1,664	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 430	Construction: Jul. 1996; 9 months
Watershed Protection	: 0	
5. Grand Total	: 7,250	

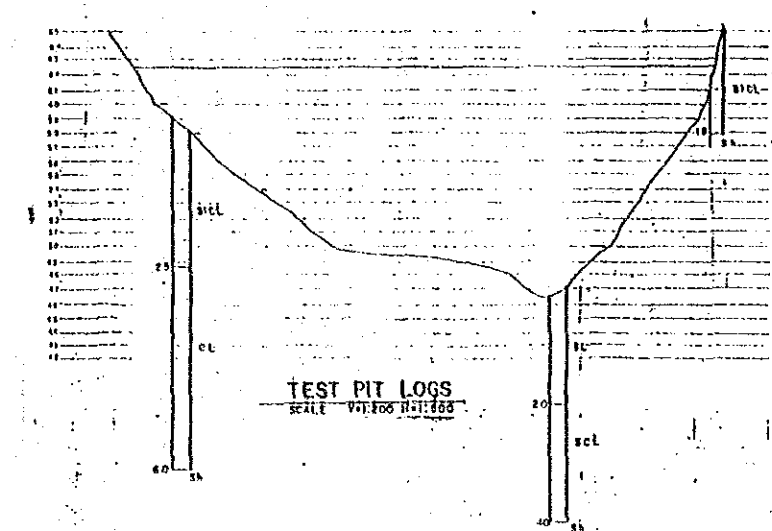
Layout:



Typical Dam Section:

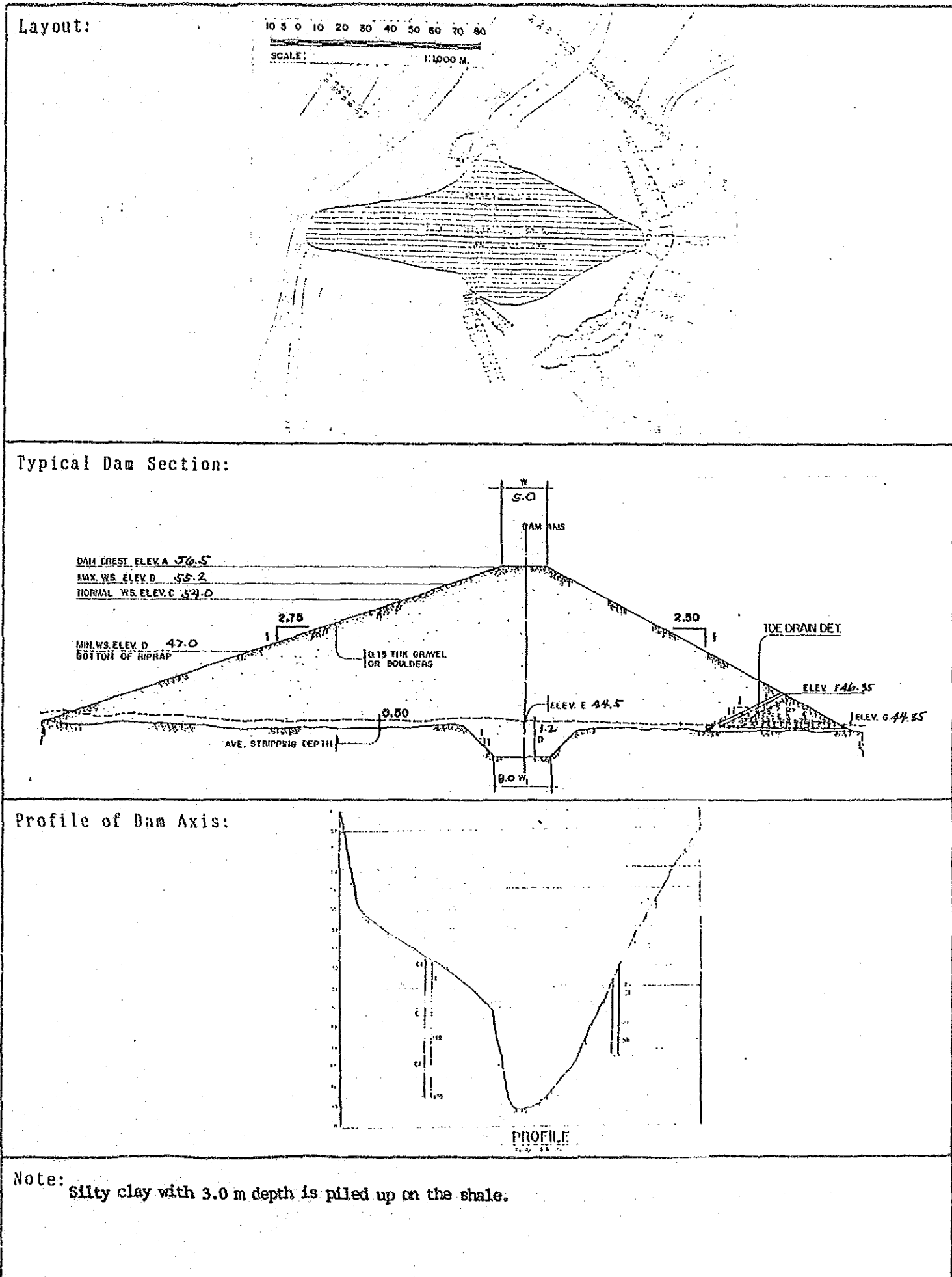


Profile of Dam Axis:



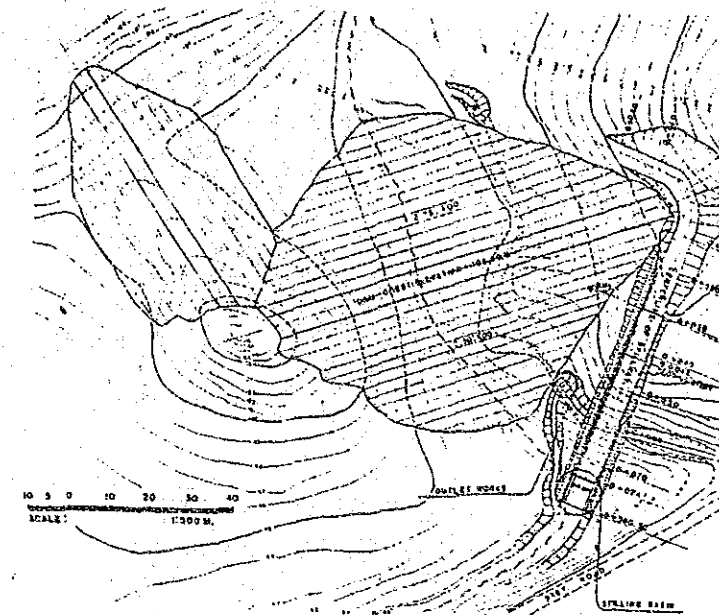
Note: Silty clay with 2.0 m depth is piled up on the shale.

SWIM PROJECT PROFILE		File No. : 111
Regist. No. : Agency No. : BSWM-21	Name : MAGNUANG SWIP	
Region : 1	Province : ILOCOS NORTE	Municipality : BATAC
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	: 12 m
	: Effective Storage Capacity	: 126,887 m ³
	: Embankment Volume	: 31,000 m ³
	: Design Flood Discharge	: 12 m ³ /sec.
2. Irrigation	: Irrigation Area	: 30 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 40 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.		
Topographic maps for the dam site shall be prepared with 1 m contour at a scale of 1/500.		
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.		
Center line of conduit is recommended to be straight.		
4. Operation and Maintenance		
Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 32	EIRR : 8.6 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 3,397	Implementation Schedule:
Dam	: 666	Review : 1991
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 585	Construction: Jul. 1999; 6 months
Watershed Protection	: 4,680	
5. Grand Total	: 4,680	

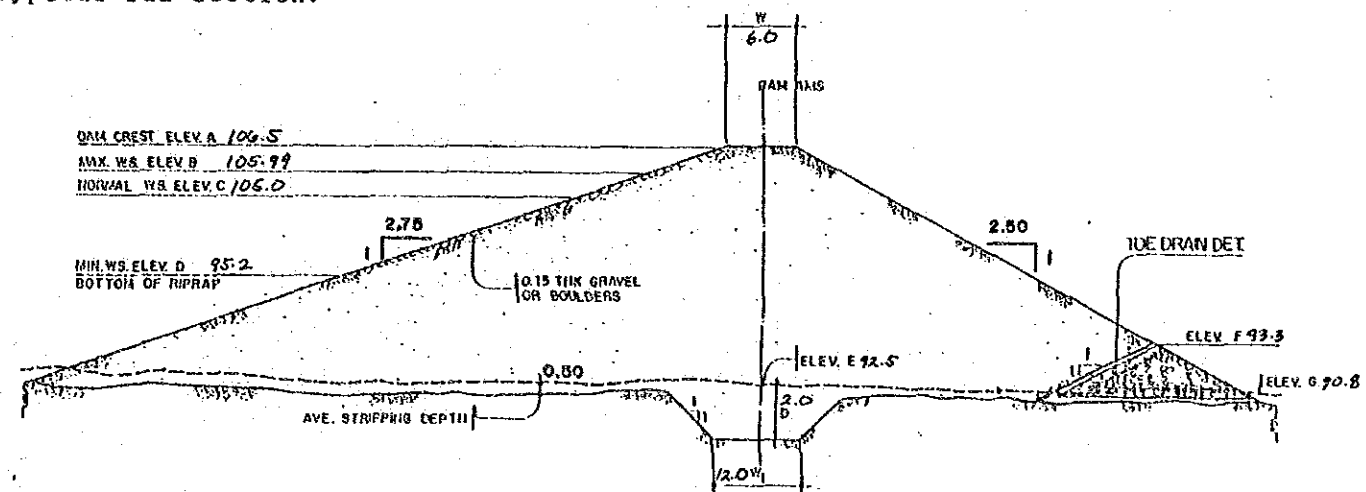


SWIM PROJECT PROFILE		File No. : 112
Regist. No. : Agency No. : BSWM-23	Name : DAQUIOAG II SWIP	
Region : 1	Province : ILOCOS NORTE	Municipality : MARCOS
Present Status: 1. Pre-F/S() ② F/S(1986) ③ D/D(1986)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 14 m 99,278 m ³ 35,420 m ³ 18 m ³ /sec.
2. Irrigation	Irrigation Area :	25 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	50 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. 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. Freeboard is not enough. Center line of 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	: 76	EIRR : 4.0 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction		Implementation Schedule:
Dam	: 3,875	Review : 1992
Irrigation	: 888	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 2000; 6 months
Watershed Protection	: 720	
5. Grand Total	: 5,559	

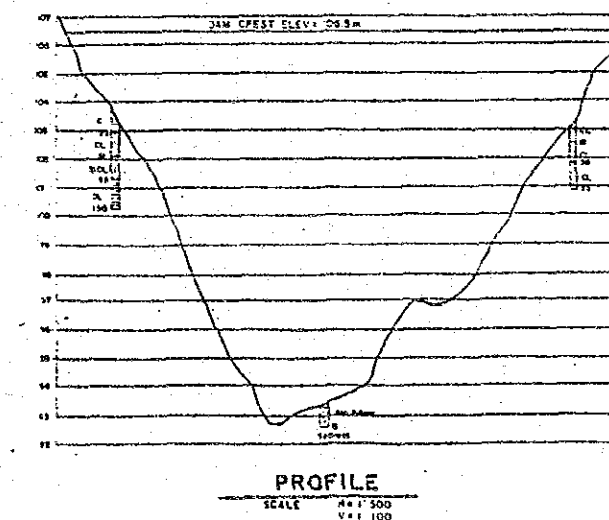
Layout:



Typical Dam Section:



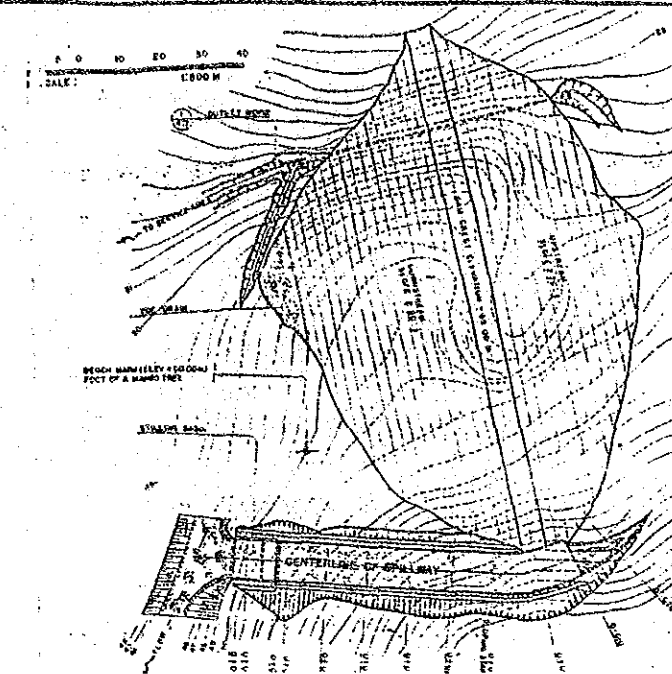
Profile of Dam Axis:



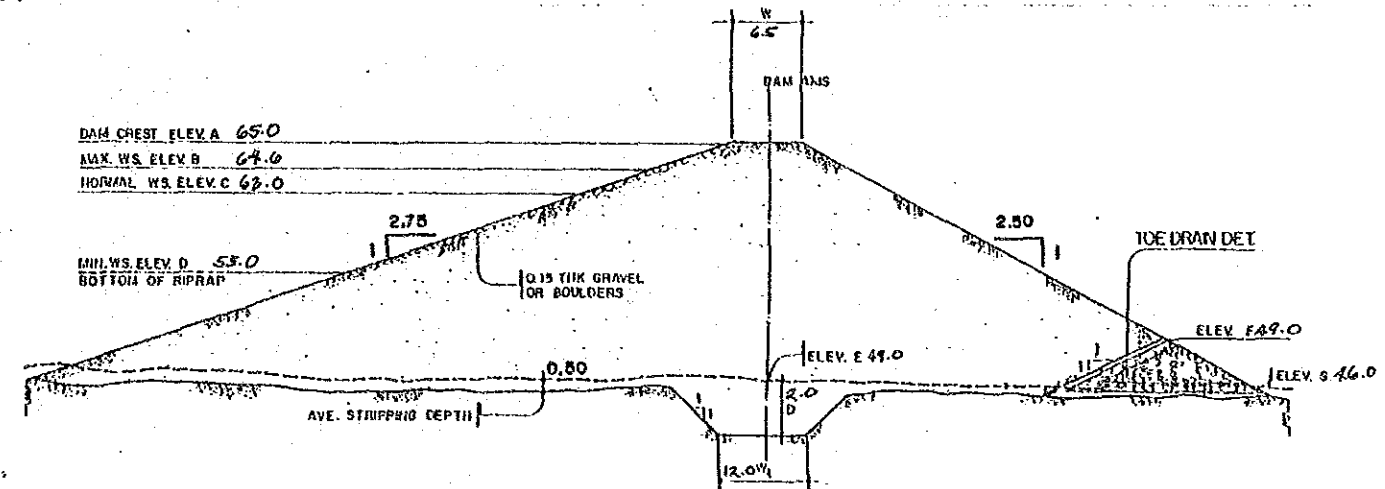
Note: Silty clay with 1.0- 2.0 m depth is piled up on the shale. Additional 1.0 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 113
Regist. No. : Agency No. : BSWN-24	Name: SAN ANDRES SWIP	
Region: 1	Province: ILOCOS NORTE	Municipality: SARRAT
Present Status: 1. Pre-F/S() ② F/S(1986) ③ D/D(1986)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 16 m
	: Effective Storage Capacity	: 105,048 m ³
	: Embankment Volume	: 60,705 m ³
	: Design Flood Discharge	: 34 m ³ /sec.
2. Irrigation	: Irrigation Area	: 40 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 110 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. 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. Freeboard is not enough. Compaction near the spillway shall be carefully carried out. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 121	EIRR : 3.5 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 6,430	Implementation Schedule:
Dam	: 1,109	Review : 1993
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,589	Construction: Jan. 2000; 9 months
Watershed Protection	: 9,249	
5. Grand Total	: 9,249	

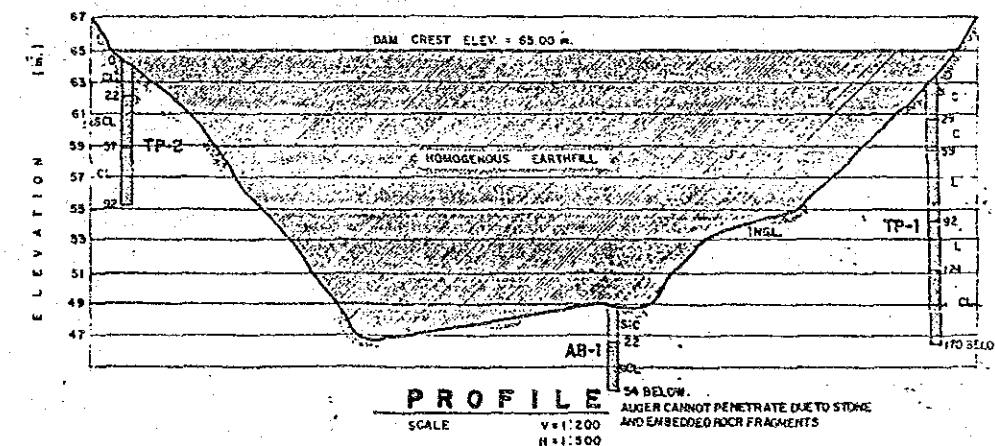
Layout:



Typical Dam Section:



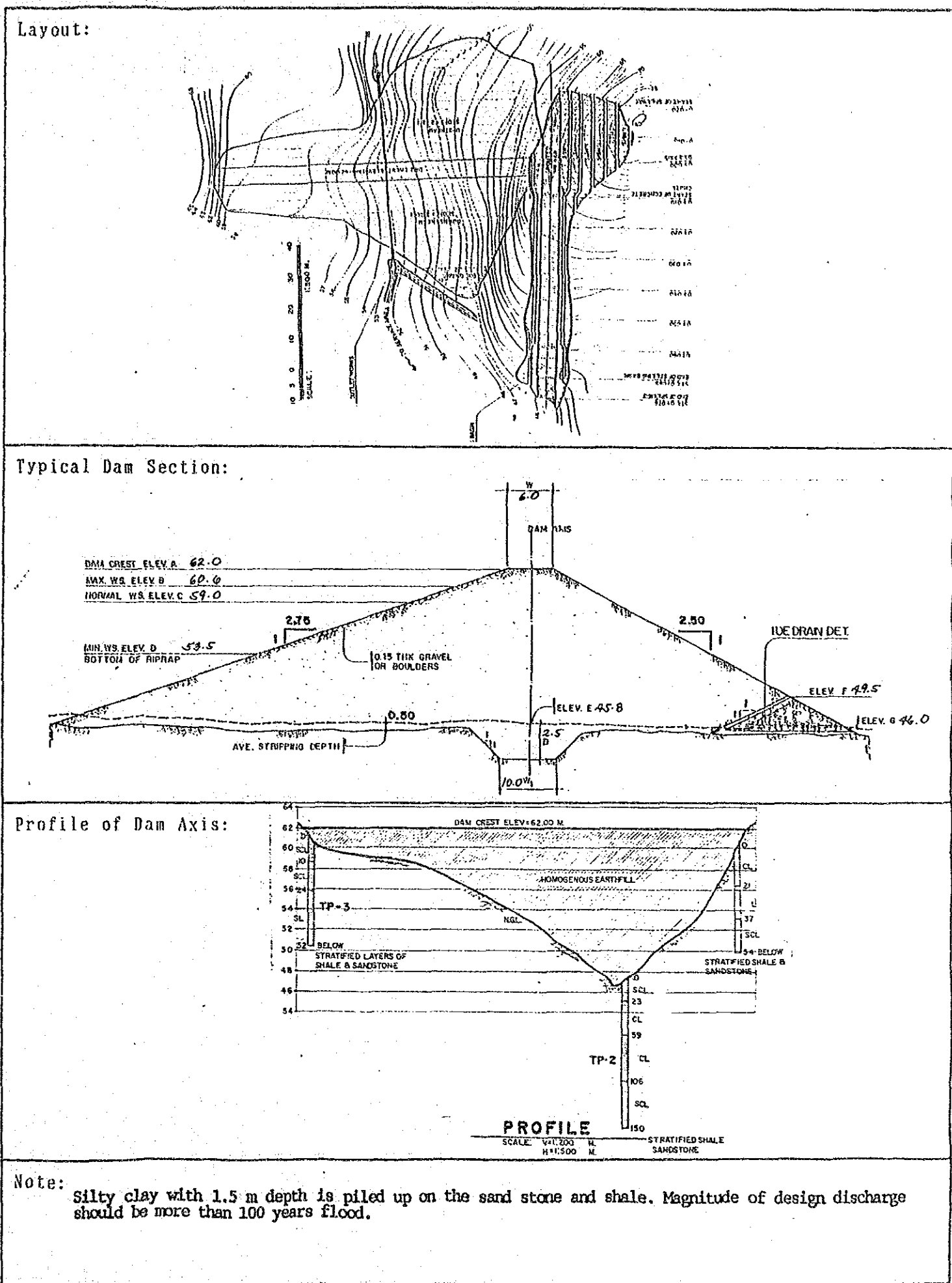
Profile of Dam Axis:



Note:

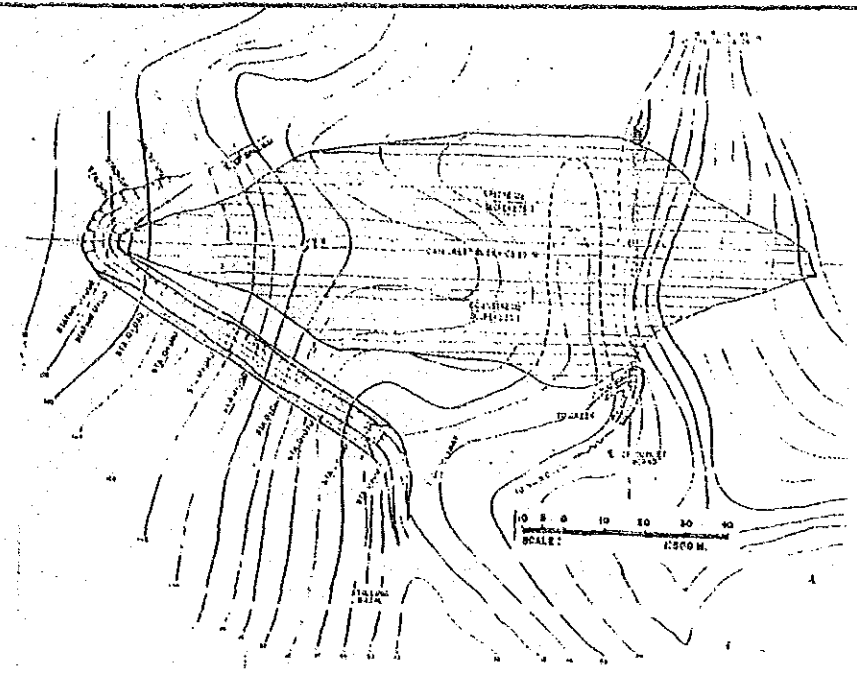
Silty clay with 1.0-3.0 m depth is piled up on the sand stone and shale. Magnitude of design discharge should be more than 100 years flood. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 114
Regist. No. : Agency No. : BSWM-25	Name : PANINAAN SWIP	
Region : 1	Province : ILOCOS NORTE	Municipality : BACARRA
Present Status: 1. Pre-F/S() (2) F/S(1986) (3) D/D(1986)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 15 m
	: Effective Storage Capacity	: 212,100 m ³
	: Embankment Volume	: 30,500 m ³
	: Design Flood Discharge	: 27 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 110 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.		
Compaction near the spillway shall be carefully carried out.		
Weir shall be provided in the spillway.		
4. Operation and Maintenance		
Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 14.7 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 0	Implementation Schedule:
Dam	: 3,401	Review : -
Irrigation	: 1,108	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1997; 6 months
Watershed Protection	: 1,588	
5. Grand Total	: 6,100	

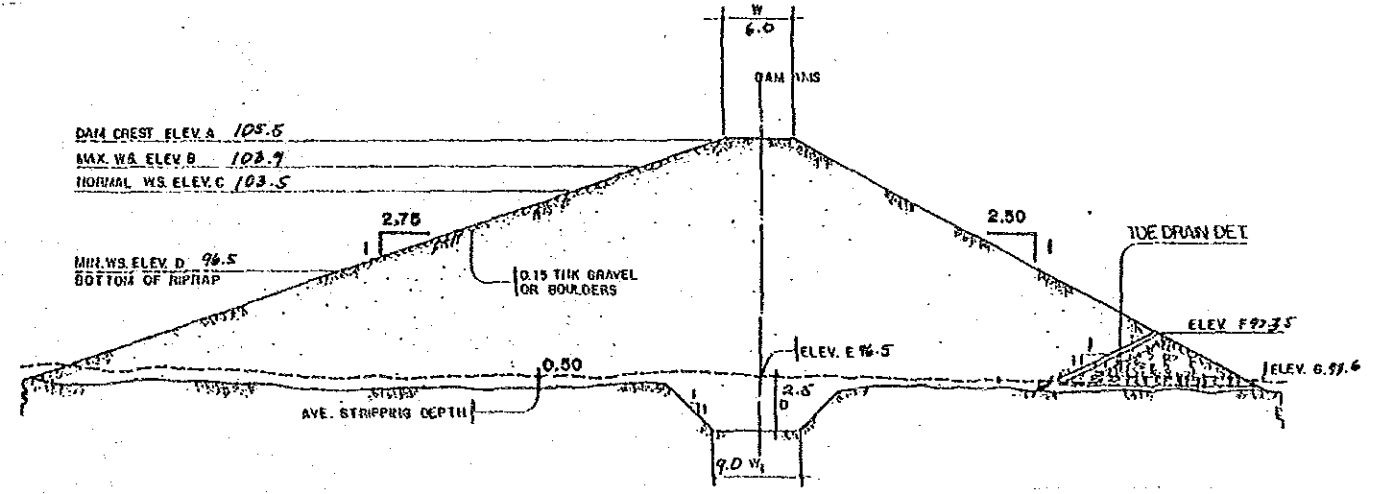


SWIM PROJECT PROFILE		File No. : 115
Regist. No. : Agency No. : BSWM-26	Name : SAN JUAN I SWIP	
Region : CAR	Province : ABRA	Municipality : PILAR
Present Status: 1. Pre-F/S() ② F/S(1984) ③ D/D(1984)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 12 m
	: Effective Storage Capacity	: 97,637 m ³
	: Embankment Volume	: 26,000 m ³
	: Design Flood Discharge	: 16 m ³ /sec.
2. Irrigation	: Irrigation Area	: 25 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 10 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	: 26	EIRR : 4.7 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 2,680	Implementation Schedule:
Dam	: 555	Review : 1982
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 152	Construction: Jul, 2000; 6 months
Watershed Protection	: 3,412	
5. Grand Total		

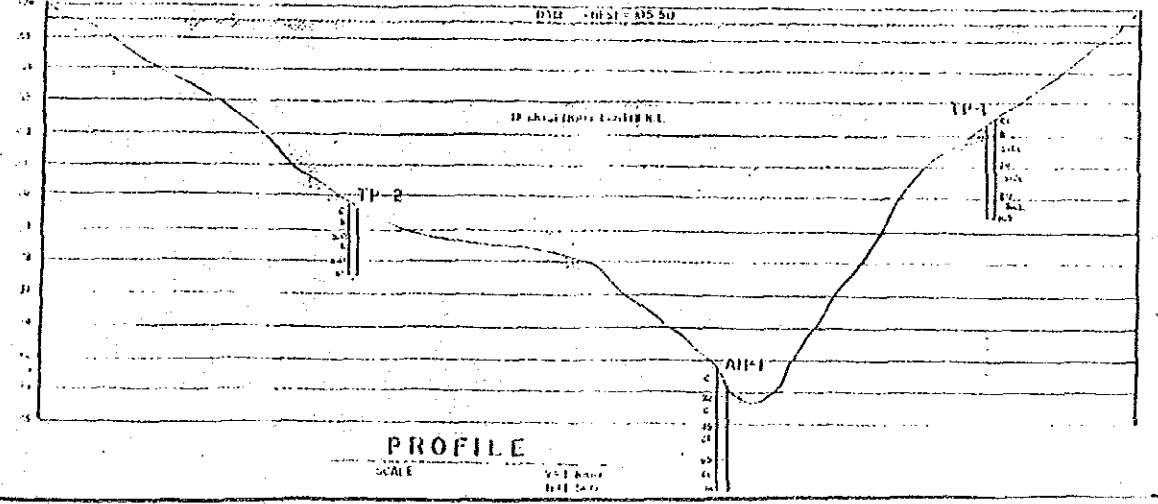
Layout:



Typical Dam Section:

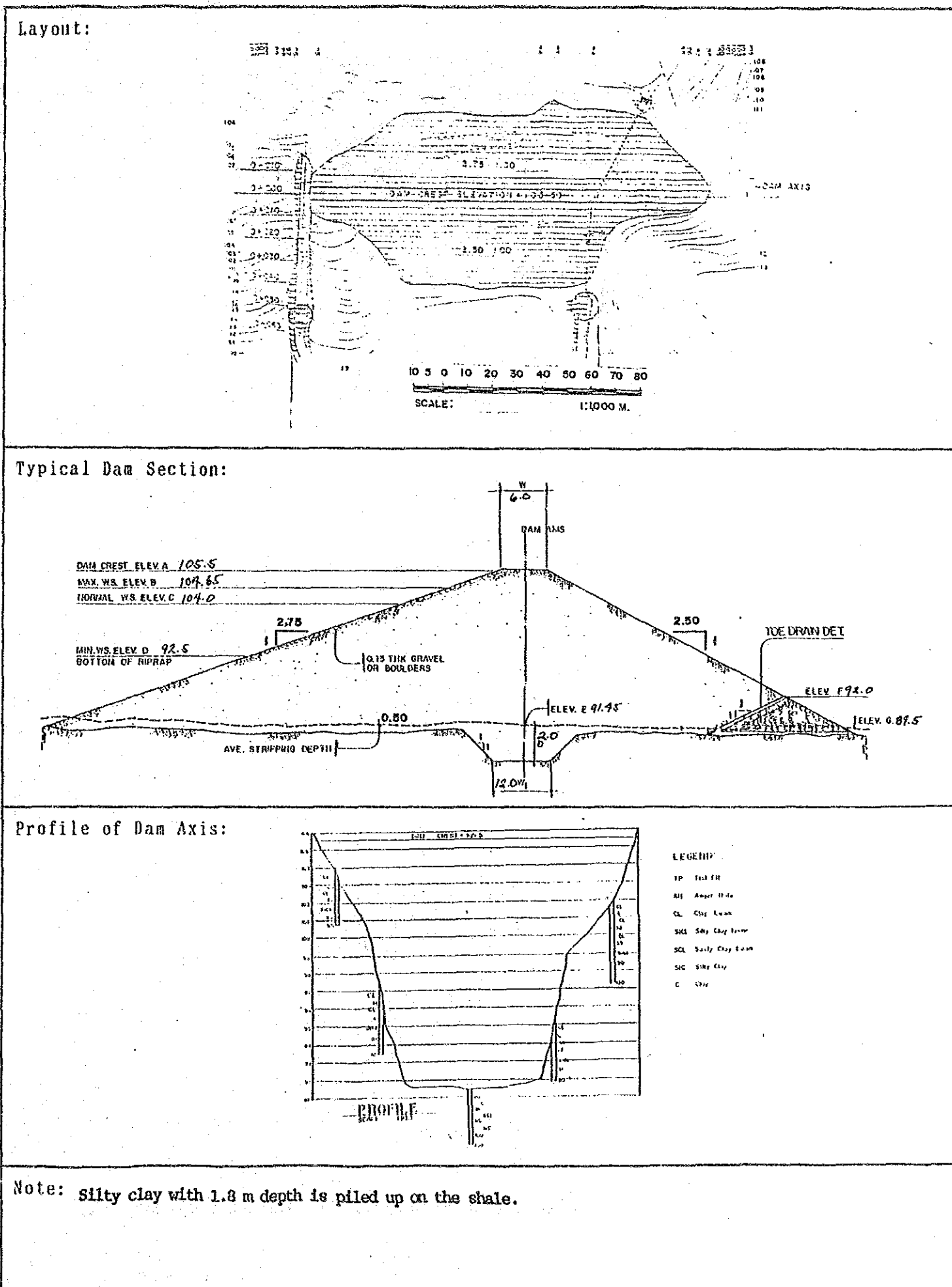


Profile of Dam Axis:

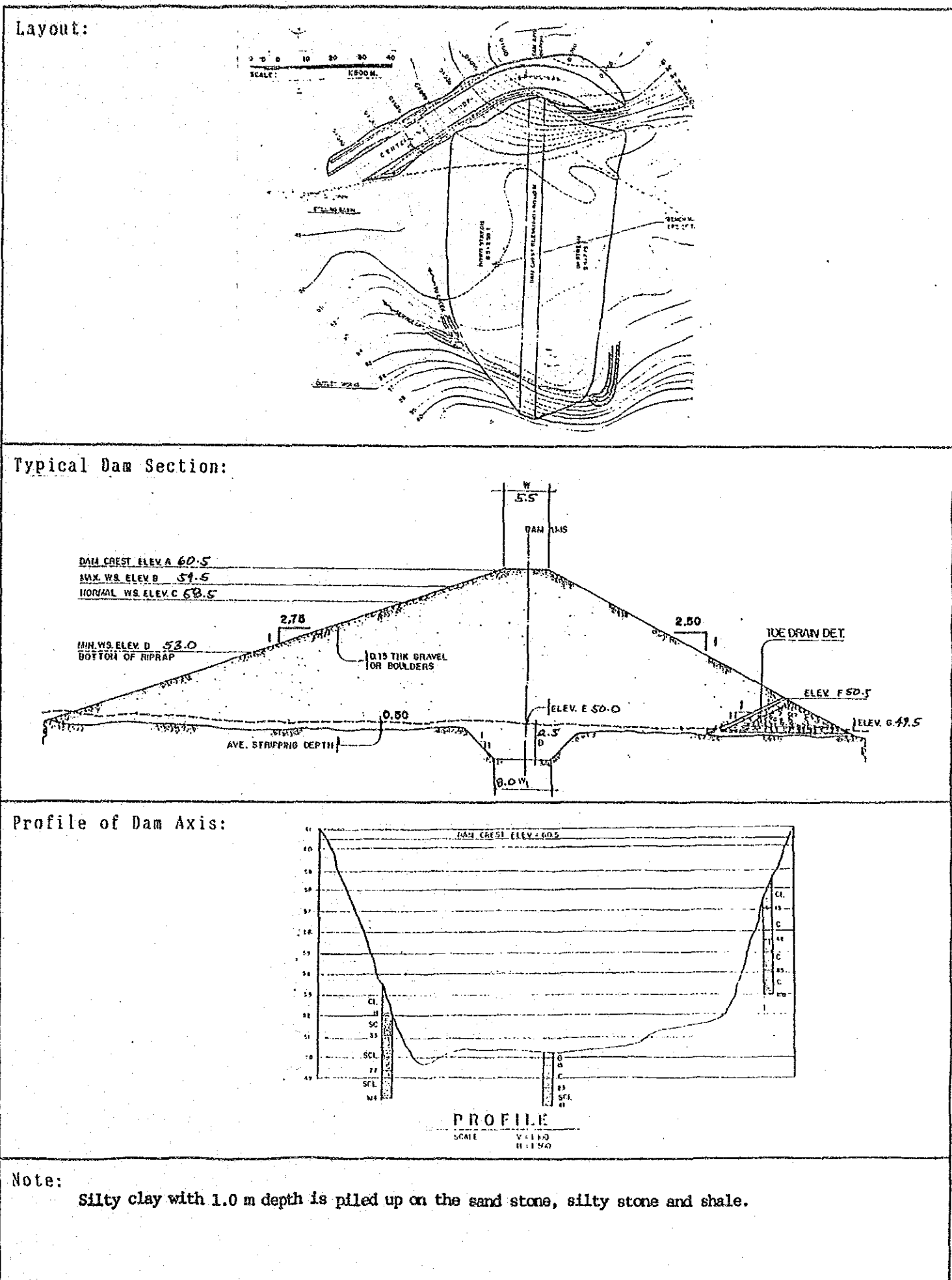


Note: Silty clay with 1.1 m depth is piled up on the shale.

SWIM PROJECT PROFILE		File No. : 116
Regist. No. : Agency No. : BSWM-27	Name : SAN JUAN II SWIP	
Region : CAR	Province : ABRA	Municipality : PILAR
Present Status: 1. Pre-F/S() ② F/S(1984) ③ D/D(1984)		
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 192,277 m ³ 72,000 m ³ 16 m ³ /sec.
2. Irrigation	Irrigation Area :	25 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	70 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. Topographic map for the dam site shall be prepared with 1 m contour at a scale of 1/500 or more.		
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. Compaction near the spillway shall be carefully carried out. 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 :	61	EIRR : -0.8 %
2. Feasibility Study :	0	Priority Rating:
3. Detailed Design :	0	Group : B
4. Construction :		Implementation Schedule:
Dam :	7,095	Review : 1993
Irrigation :	555	F/S : Completed
Mini-Hydropower :	0	D/D : Completed
Water Supply :	0	Construction: Jan.2000; 9 months
Watershed Protection :	1,017	
5. Grand Total :	8,728	

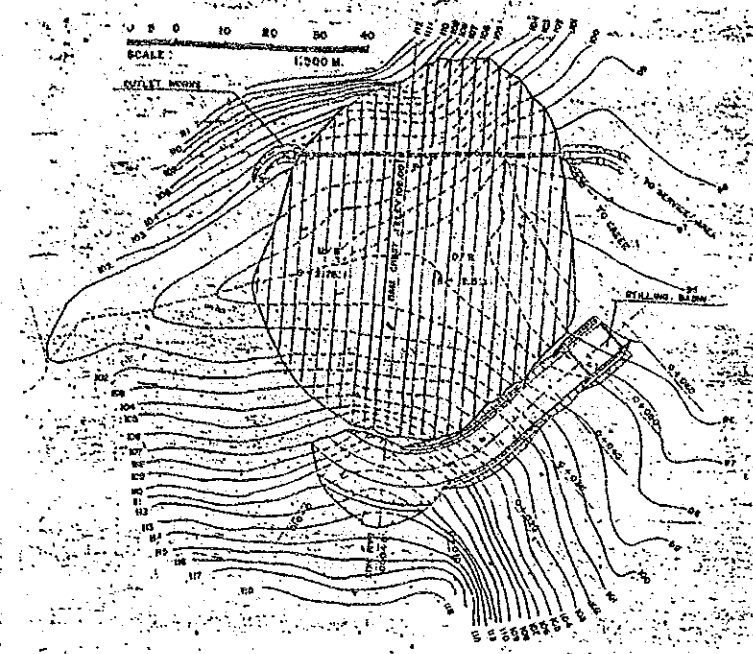


SWIM PROJECT PROFILE		File No. : 117
Regist. No. : Agency No. : BSWM-28	Name : MACARCARMAY SWIP	
Region : CAR	Province : ABRA	Municipality : BANGUED
Present Status: 1. Pre-F/S() ② F/S(1984) ③ D/D(1984)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 11 m
	: Effective Storage Capacity	: 56,921 m ³
	: Embankment Volume	: 27,500 m ³
	: Design Flood Discharge	: 18 m ³ /sec.
2. Irrigation	: Irrigation Area	: 60 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	: 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		
Percolation in the limestone layer shall be studied.		
Up stream slope of dam shall be checked. Center line of spill way		
Stability of upstream slope of the dam shall be checked.		
Center line of the spillway shall be shifted to right side.		
Supercritical flow portion shall be straight.		
Center line of conduit is recommended to be straight.		
4. Operation and Maintenance		
Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 36	EIRR : 7.0 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	:	Implementation Schedule:
Dam	: 3,197	Review : 1991
Irrigation	: 1,331	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul.2000; 6 months
Watershed Protection	: 1,170	
5. Grand Total	: 5,735	

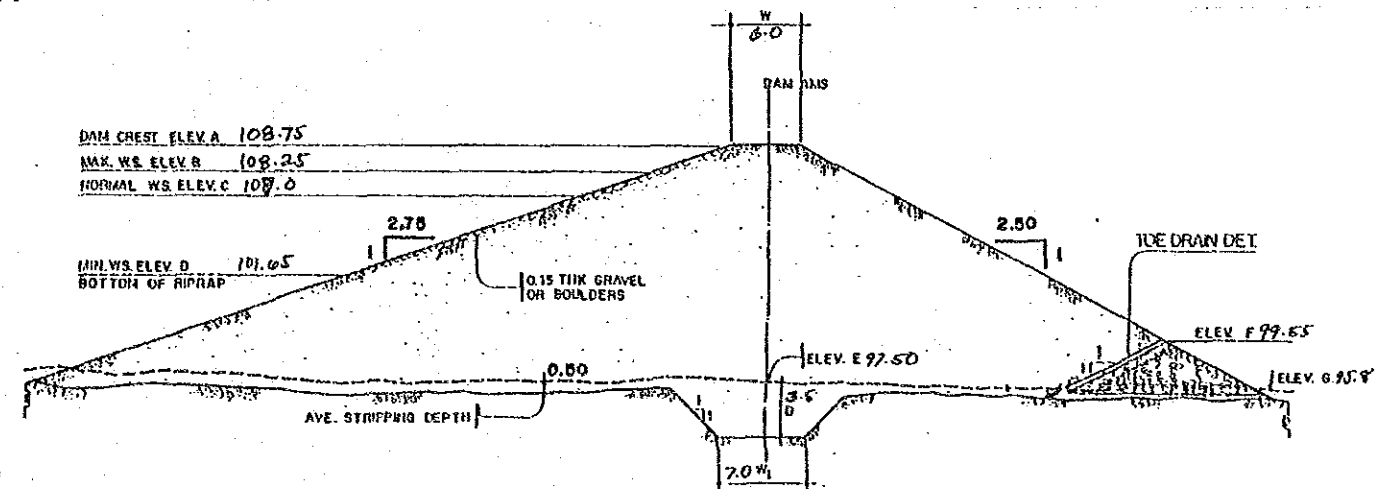


SWIM PROJECT PROFILE		File No. : 118
Regist. No. : Agency No. : BSWM-29	Name : PATA SWIP	
Region : 2	Province : CAGAYAN	Municipality : CLAVERIA
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 11 m 29,609 m ³ 17,700 m ³ 18 m ³ /sec.
2. Irrigation	Irrigation Area :	100 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 :	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 Agricultural benefit is over-estimated. 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:
1. Review	: 0	EIRR : 22.1 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction		Implementation Schedule:
Dam	: 2,485	Review : -
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1998; 6 months
Watershed Protection	: 877	
5. Grand Total	: 5,580	

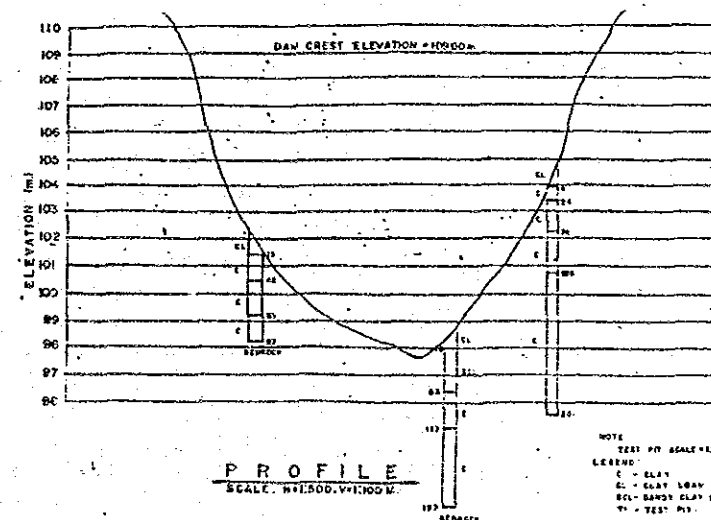
Layout:



Typical Dam Section:



Profile of Dam Axis:

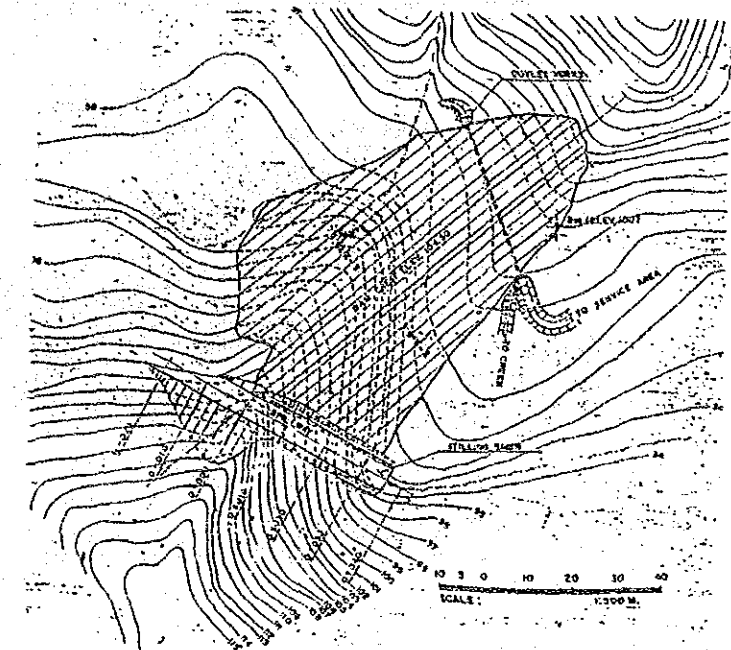


Note:

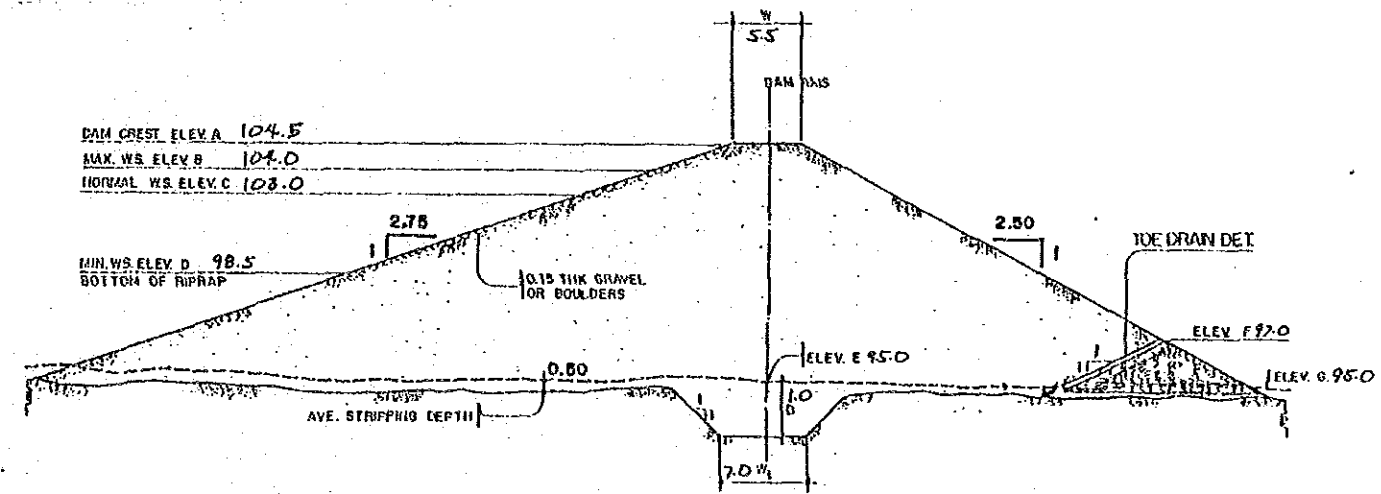
Silty clay with 2.0 m depth is piled up on the sand stone.

SWIM PROJECT PROFILE		File No. : 119
Regist. No. : Agency No. : BSWM-30	Name: BALACUIT SWIP	
Region: 2	Province: NUEVA VIZCAYA	Municipality: VILLAVERDE
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	: 102,242 m ³
	: Embankment Volume	: 10,488 m ³
	: Design Flood Discharge	: 13 m ³ /sec.
2. Irrigation	: Irrigation Area	: 100 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	: 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. Freeboard is not enough. 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:
1. Review	: 35	EIRR : 26.4 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 0	Implementation Schedule:
Dam	: 2,218	Review : 1996
Irrigation	: 2,218	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1997; 6 months
Watershed Protection	: 1,320	
5. Grand Total	: 5,792	

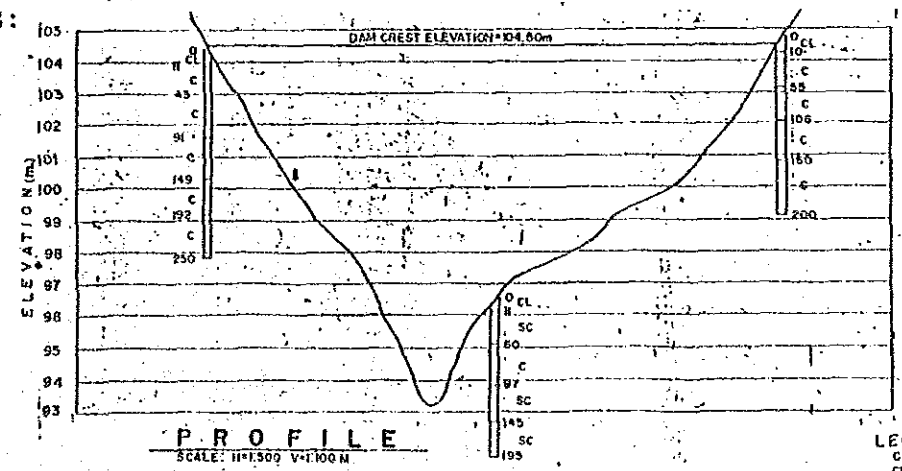
Layout:



Typical Dam Section:



Profile of Dam Axis:

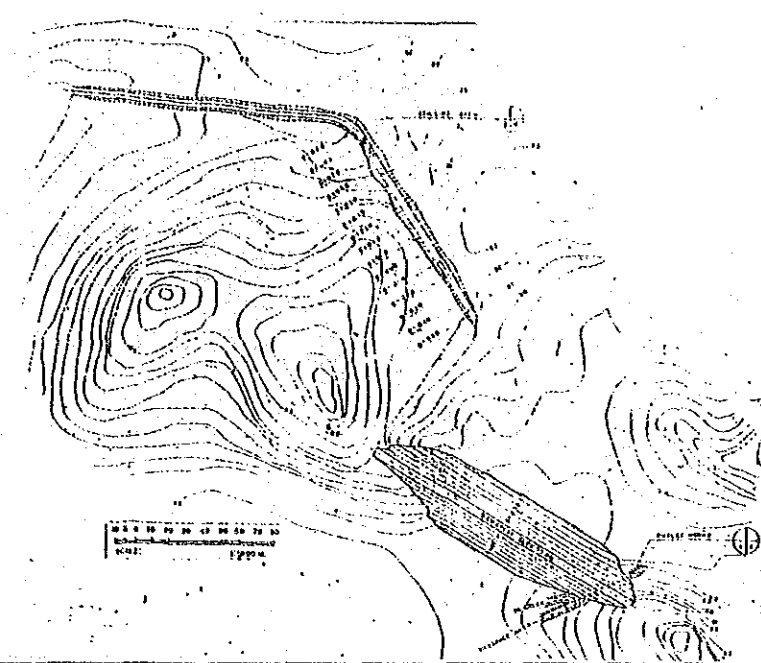


LEGEND:
C = CLAY
CL = CLAY LOAM
SC = SILTY CLAY

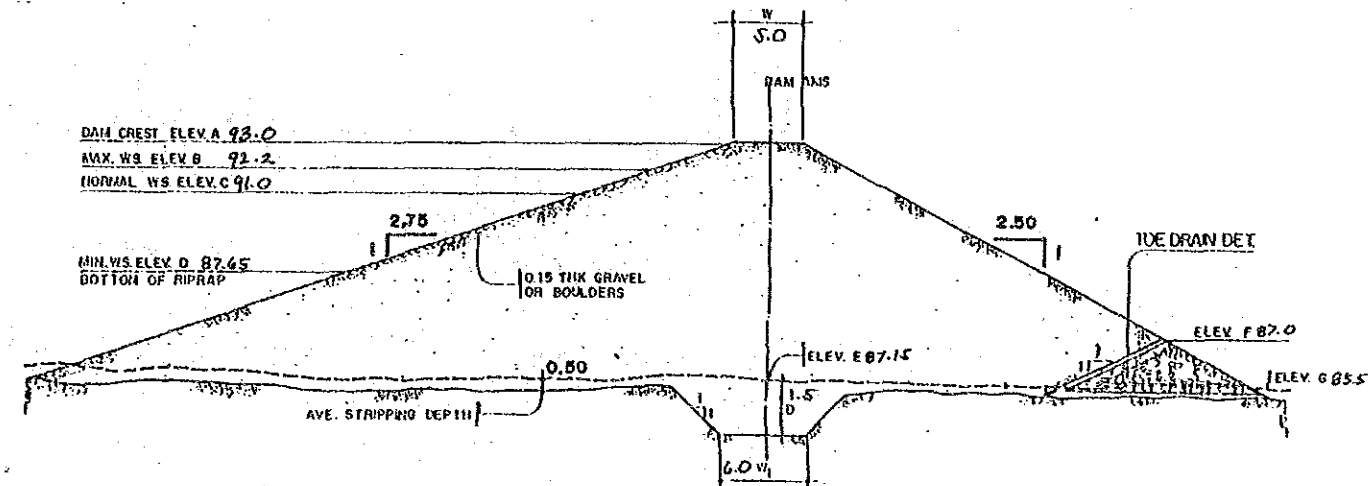
Note: Silty clay with 2.0 m depth is piled up on the sand stone and shale. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 120
Regist. No. : Agency No. : BSWM-31	Name: CABANNUNGAN SWIP	
Region: 2	Province: ISABELA	Municipality: ILAGAN
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 : 7 m	
	Effective Storage Capacity : 254,220 m ³	
	Embankment Volume : 30,600 m ³	
	Design Flood Discharge : 18 m ³ /sec.	
2. Irrigation	Irrigation Area : 70 ha	
3. Mini-hydropower	Installed Capacity : 0 kW	
4. Watershed Man.	Watershed Protection Area : 180 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.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 27.7 %
2. Feasibility Study	: 0	
3. Detailed Design	: 0	Priority Rating:
4. Construction		Group : A
Dam	: 3,633	Implementation Schedule:
Irrigation	: 1,553	Review : -
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 0	D/D : Completed
Watershed Protection	: 2,630	Construction: Jul. 1984; 9 months
5. Grand Total	: 7,816	

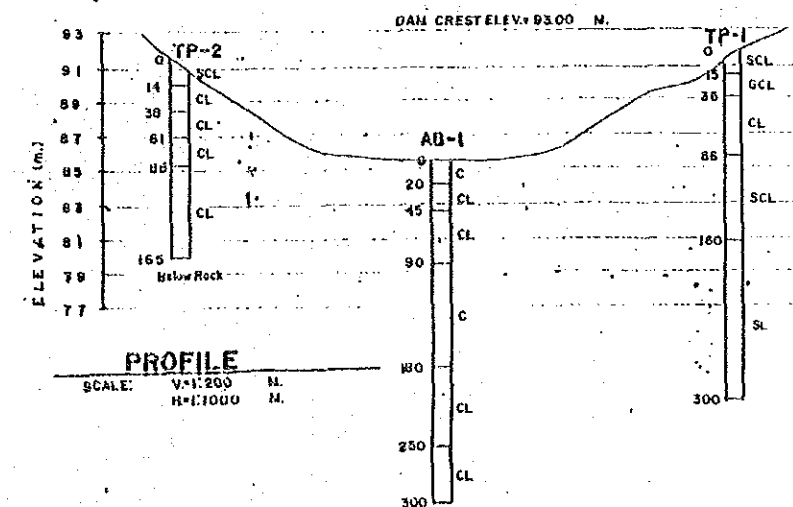
Layout:



Typical Dam Section:



Profile of Dam Axis:

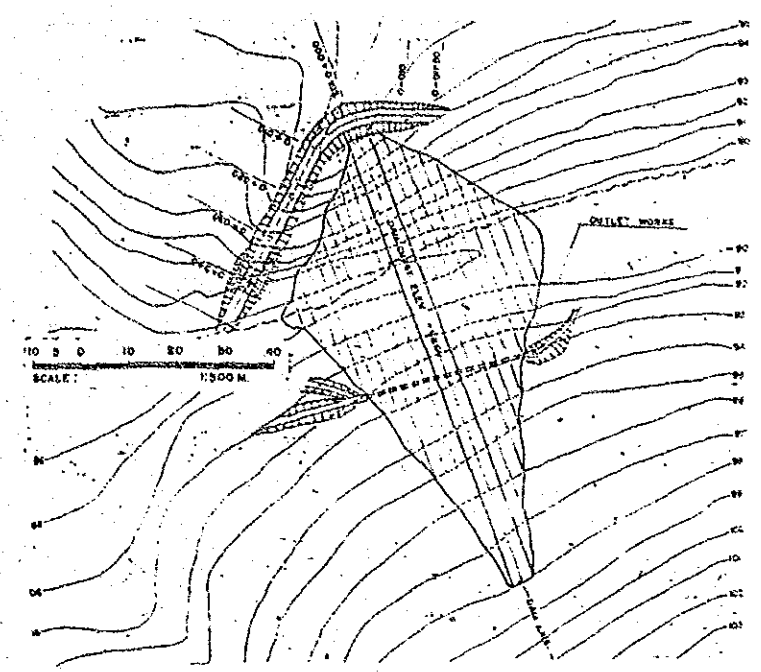


Note:

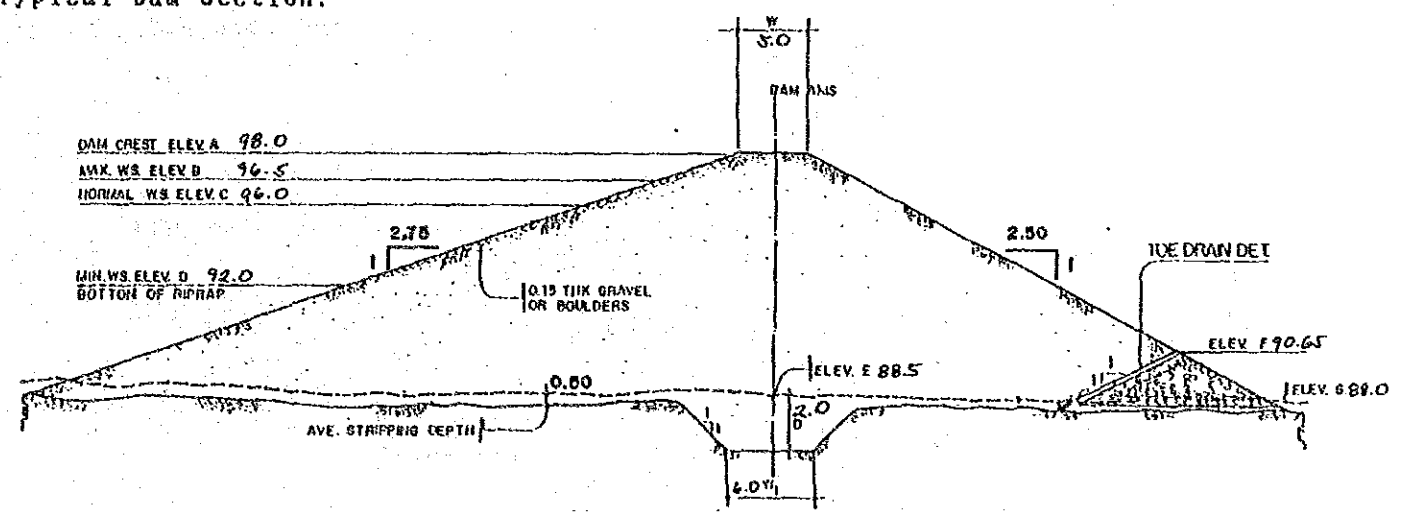
Silty clay with 3.0 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 121
Regist. No. : Agency No. : BSWM-32	Name: MARANA SWIP	
Region: 2	Province: ISABELA	Municipality: ILAGAN
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 : 66,526 m ³	
	Embankment Volume : 9,800 m ³	
	Design Flood Discharge : 4 m ³ /sec.	
2. Irrigation	Irrigation Area : 30 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 : 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. 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:
1. Review : 0		EIRR : 23.4 %
2. Feasibility Study : 0		Priority Rating:
3. Detailed Design : 0		Group : A
4. Construction :		Implementation Schedule:
Dam : 2,262		Review : -
Irrigation : 666		F/S : Completed
Mini-Hydropower : 0		D/D : Completed
Water Supply : 0		Construction: Jul. 1992; 6 months
Watershed Protection : 430		
5. Grand Total : 3,358		

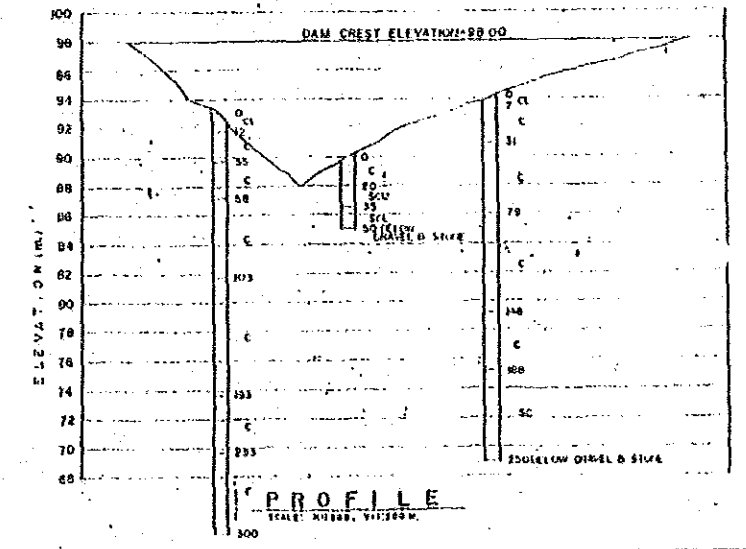
Layout:



Typical Dam Section:



Profile of Dam Axis:

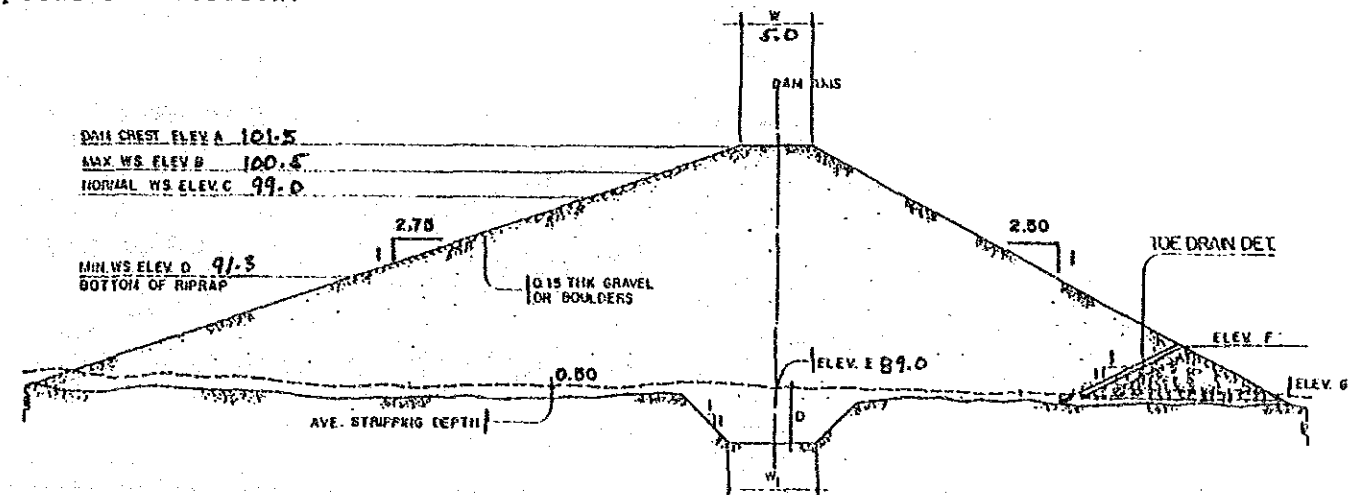


Note: Silty clay with 2.5 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 122
Regist. No. : Agency No. : BSWM-33	Name : CABULUAN SWIP	
Region : 2	Province : CAGAYAN	Municipality : ALCALA
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	: 12 m
	: Effective Storage Capacity	: 371,049 m ³
	: Embankment Volume	: 54,341 m ³
	: Design Flood Discharge	: 28 m ³ /sec.
2. Irrigation	: Irrigation Area	: 100 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 190 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. Dam plan shall be prepared.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 63	EIRR : 19.8 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 5,742	Implementation Schedule:
Dam	: 5,742	Review : 1994
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1995; 6 months
Watershed Protection	: 2,773	
5. Grand Total	: 10,797	

Layout:

Typical Dam Section:

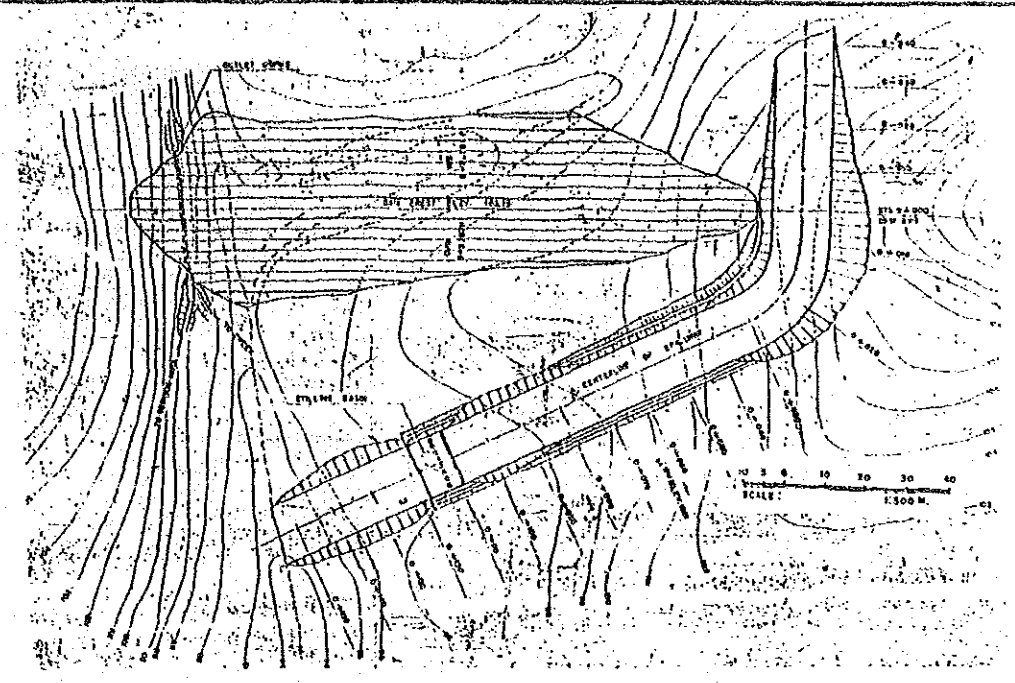


Profile of Dam Axis:

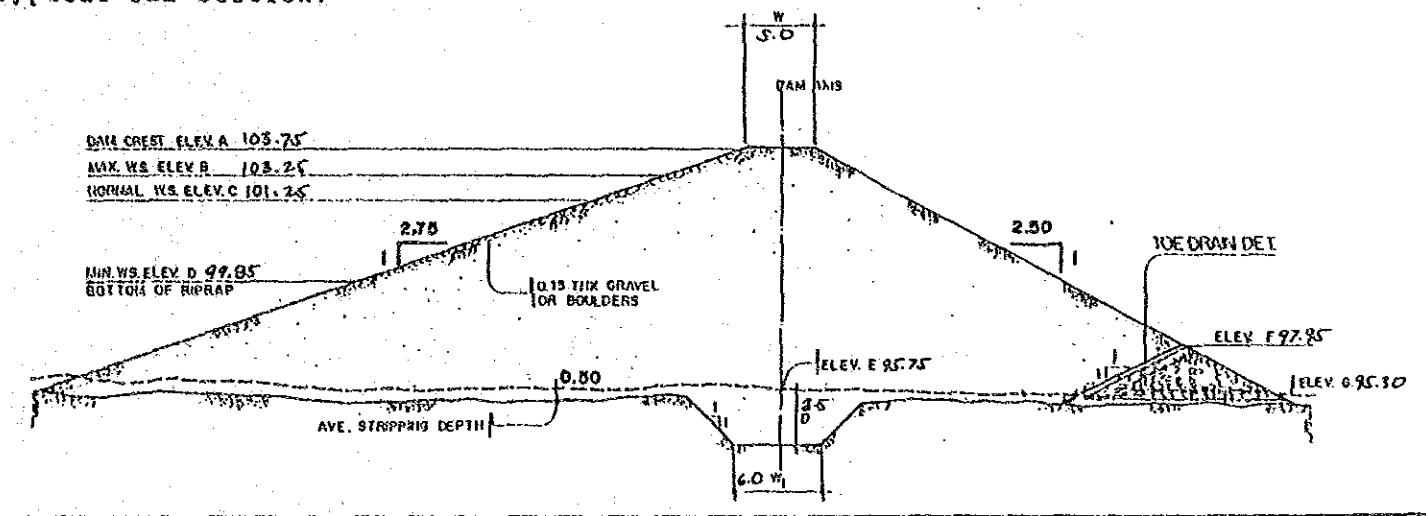
Note:
Silty clay with 3.0 m depth is piled up on the sand stone and shale. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 123
Regist. No. : Agency No. : BSWM-34	Name : DIADI SWIP	
Region : 2	Province : NUEVA VIZCAYA	Municipality : DIADI
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 8 m 44,777 m ³ 36,320 m ³ 79 m ³ /sec.
2. Irrigation	Irrigation Area :	65 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	560 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. 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.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 52	EIRR : 24.8 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 5,069	Implementation Schedule:
Dam	: 1,442	Review : 1994
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 8,167	Construction: Jan. 1995; 6 months
Watershed Protection	: 14,730	
5. Grand Total		

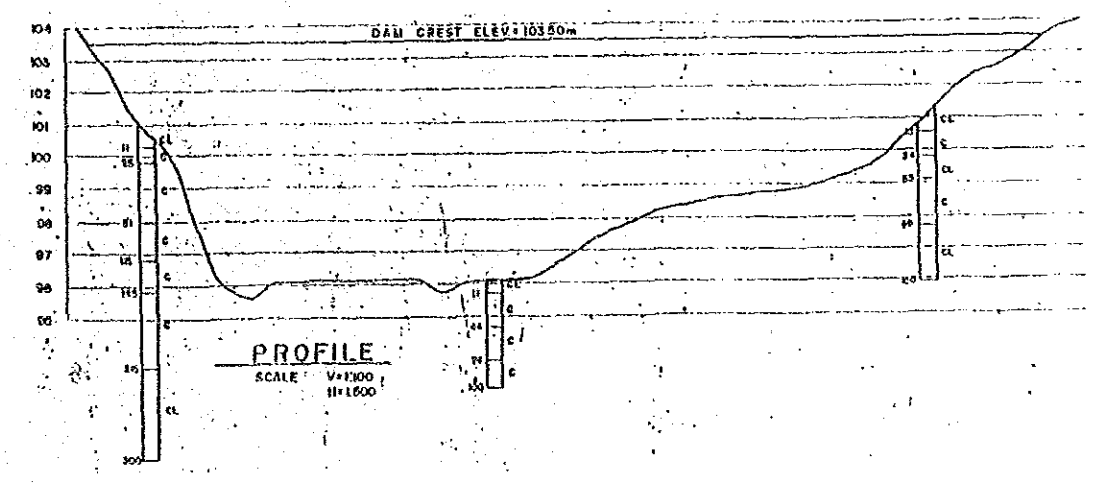
Layout:



Typical Dam Section:



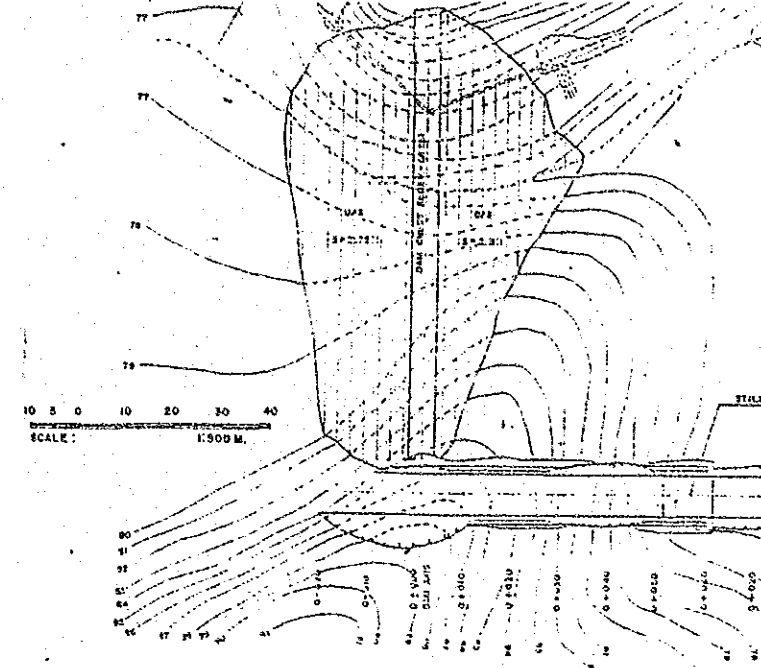
Profile of Dam Axis:



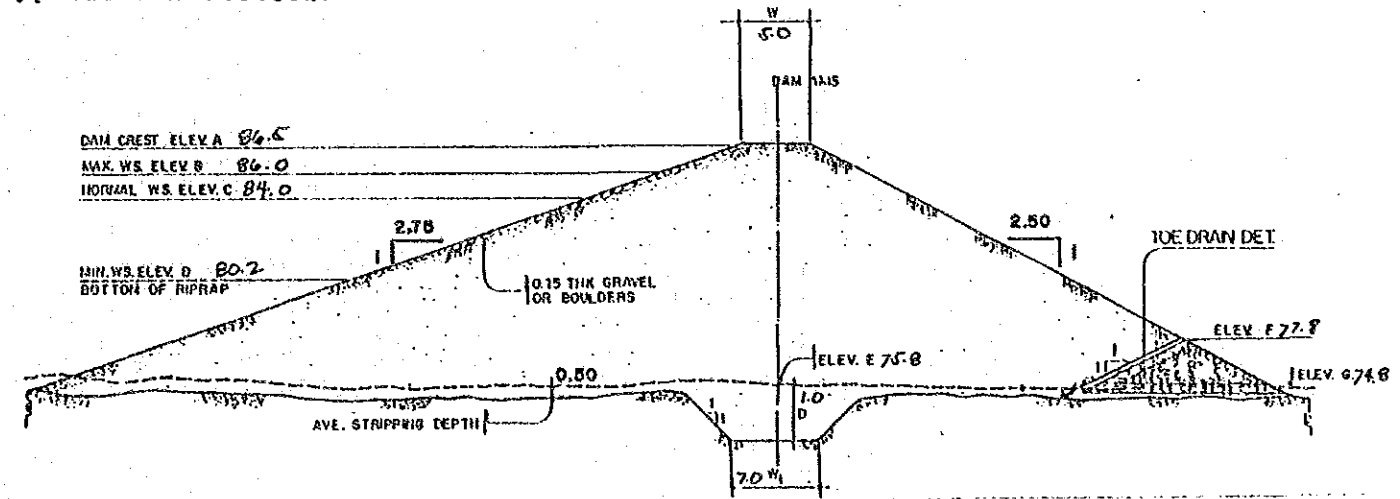
Note: Silty clay with 1.0 m depth is piled up on the sand stone. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 124
Regist. No. : Agency No. : BSWM-35	Name: NAGANACAN SWIP	
Region: 2	Province: ISABELA	Municipality: STA MARIA
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	167,451 m ³
	Embankment Volume	18,944 m ³
	Design Flood Discharge	49 m ³ /sec.
2. Irrigation	Irrigation Area	80 ha
3. Mini-hydropower	Installed Capacity	0 kW
4. Watershed Man.	Watershed Protection Area	310 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. Freeboard is not enough. 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	: 38	EIRR : 26.7 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 3,005	Implementation Schedule:
Dam	: 1,775	Review : 1991
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 4,523	Construction: Jan. 1992; 6 months
Watershed Protection	: 9,341	
5. Grand Total		

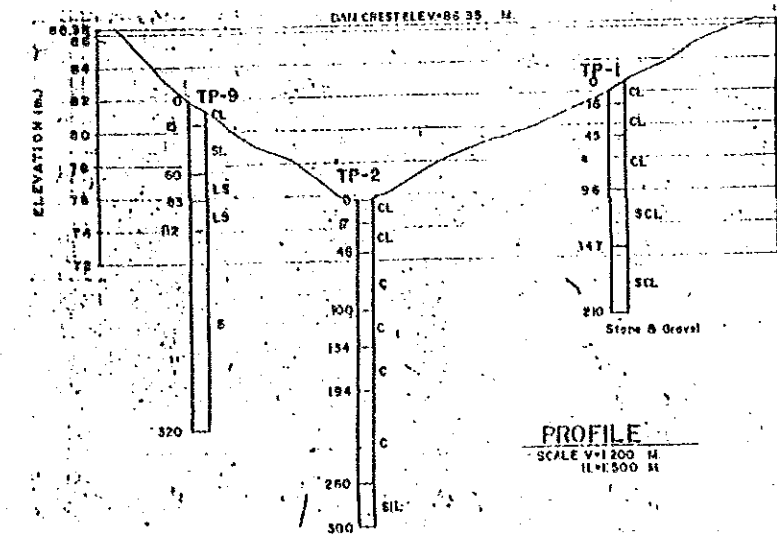
Layout:



Typical Dam Section:



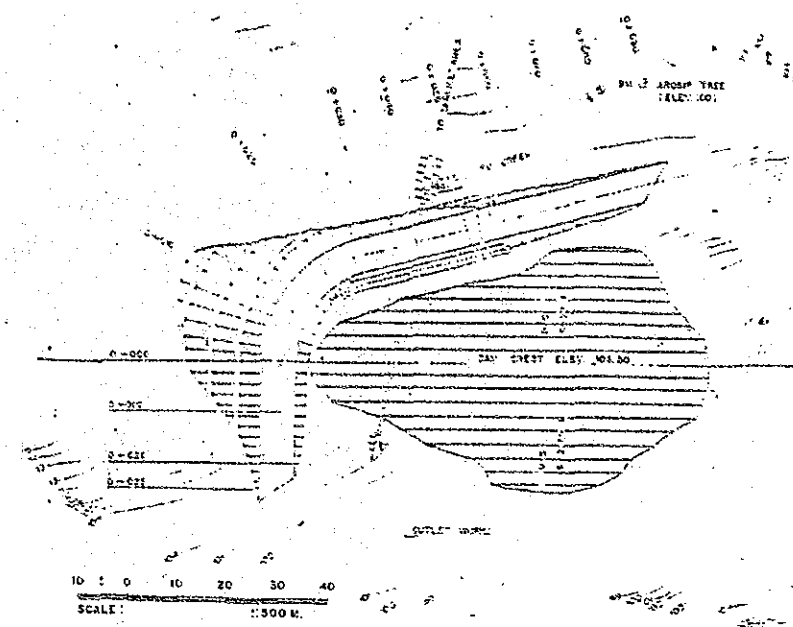
Profile of Dam Axis:



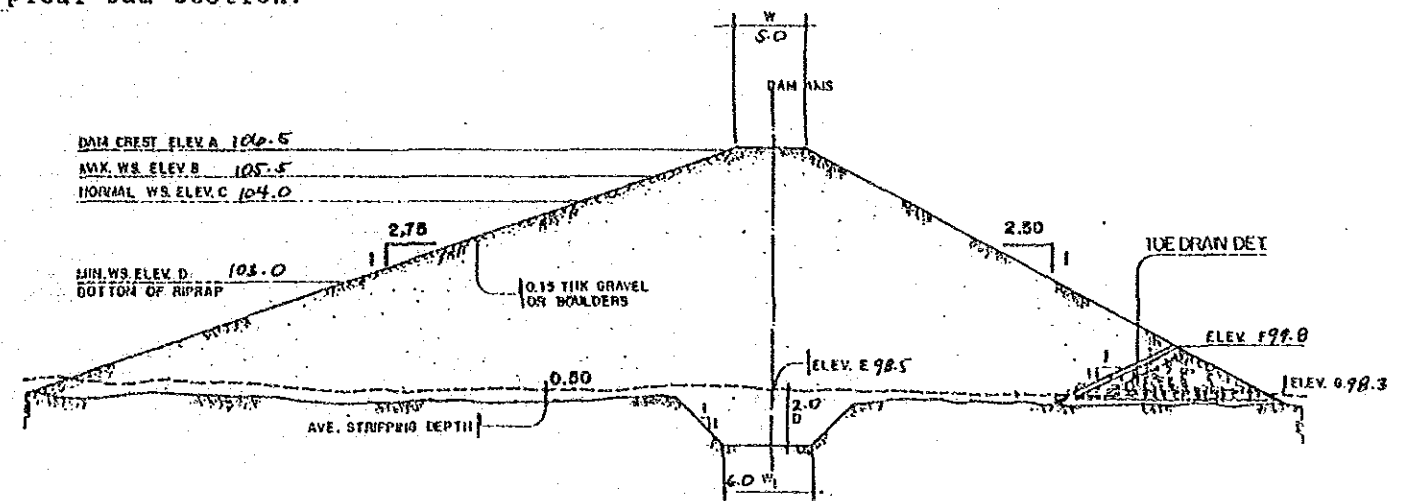
Note: Silty clay with 3.0 m depth is piled on the sand stone and shale. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 125
Regist. No. : Agency No. : BSWM-36	Name : BALETE SWIP	
Region : 2	Province : NUEVA VIZCAYA	Municipality : DIADI
Present Status: 1. Pre-F/S() (2) F/S(1983) (3) D/D(1983)		
Purpose: Major : Irrigation, Mini-hydropower, Water Supply Incidental : IR, IF, FC, WM, MH, WS		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 8 m
	: Effective Storage Capacity	: 17,453 m3
	: Embankment Volume	: 8,000 m3
	: Design Flood Discharge	: 23 m3/sec.
2. Irrigation	: Irrigation Area	: 20 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 140 ha
5. Water Supply	: Design Supply Capacity	: 0 m3/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 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 : 28.4 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 1,768	Implementation Schedule:
Dam	: 1,768	Review : -
Irrigation	: 444	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1994; 6 months
Watershed Protection	: 2,045	
5. Grand Total	: 4,257	

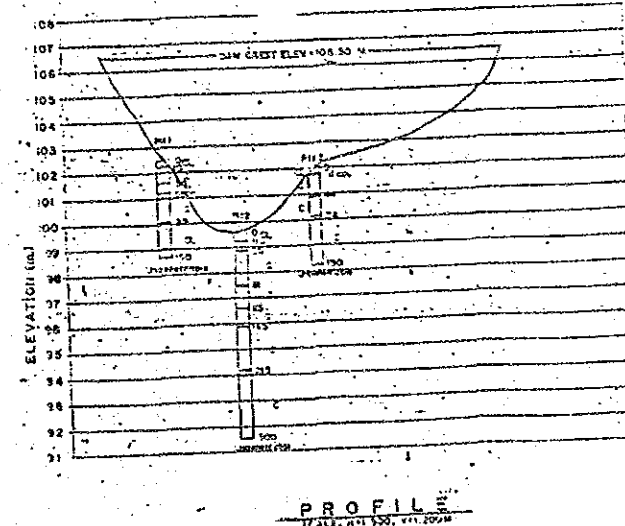
Layout:



Typical Dam Section:



Profile of Dam Axis:

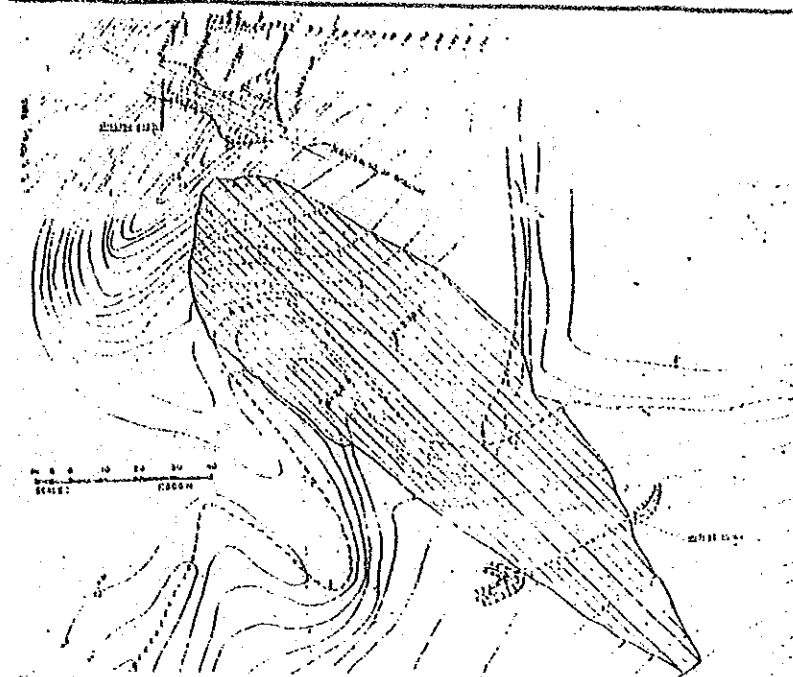


Note:

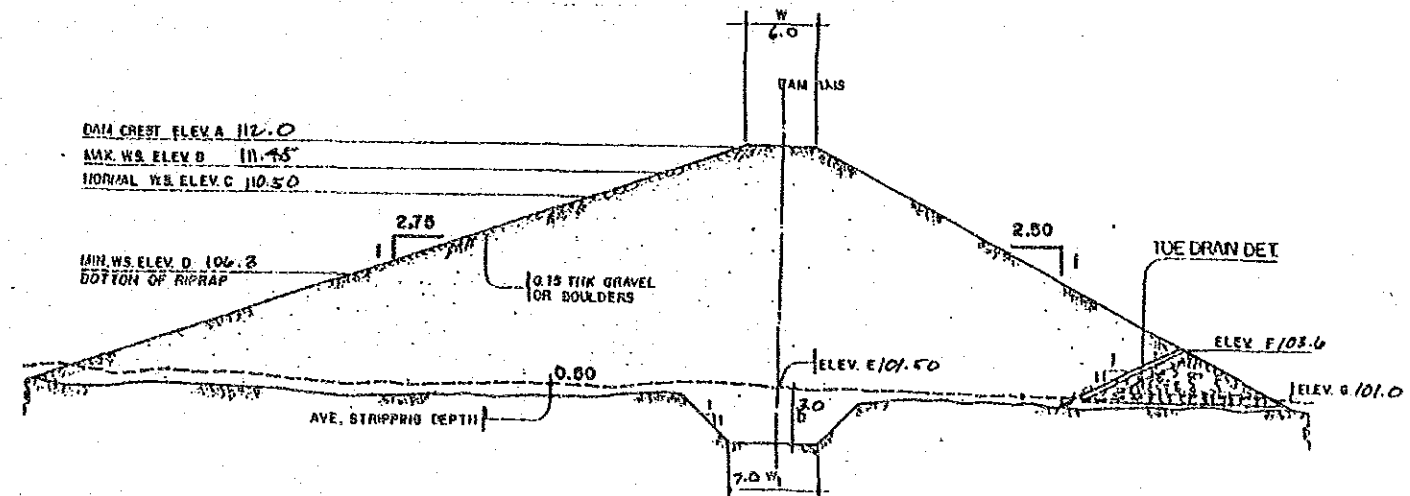
Silty clay with 3.0 m depth is piled up on the shale and conglomerate.

SWIM PROJECT PROFILE		File No. : 126
Regist. No. : Agency No. : BSWM-37	Name : MINAGBAG SWIP	
Region : 2	Province : ISABELA	Municipality : QUEZON
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	: 11 m
	: Effective Storage Capacity	: 193,684 m ³
	: Embankment Volume	: 37,887 m ³
	: Design Flood Discharge	: 12 m ³ /sec.
2. Irrigation	: Irrigation Area	: 60 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	: 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.		
Freeboard is not enough.		
Weir shall be provided in the spillway.		
4. Operation and Maintenance		
Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
Review	: 47	EIRR : 16.2 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : A
Construction		Implementation Schedule:
Dam	: 4,560	Review : 1992
Irrigation	: 1,331	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1993; 6 months
Watershed Protection	: 877	
Grand Total	: 6,815	

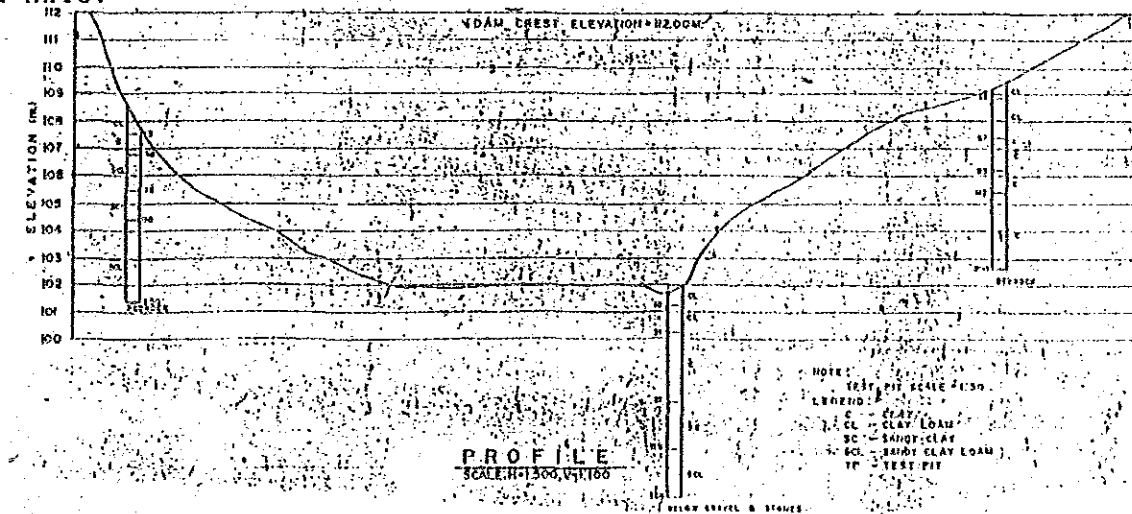
Layout:



Typical Dam Section:



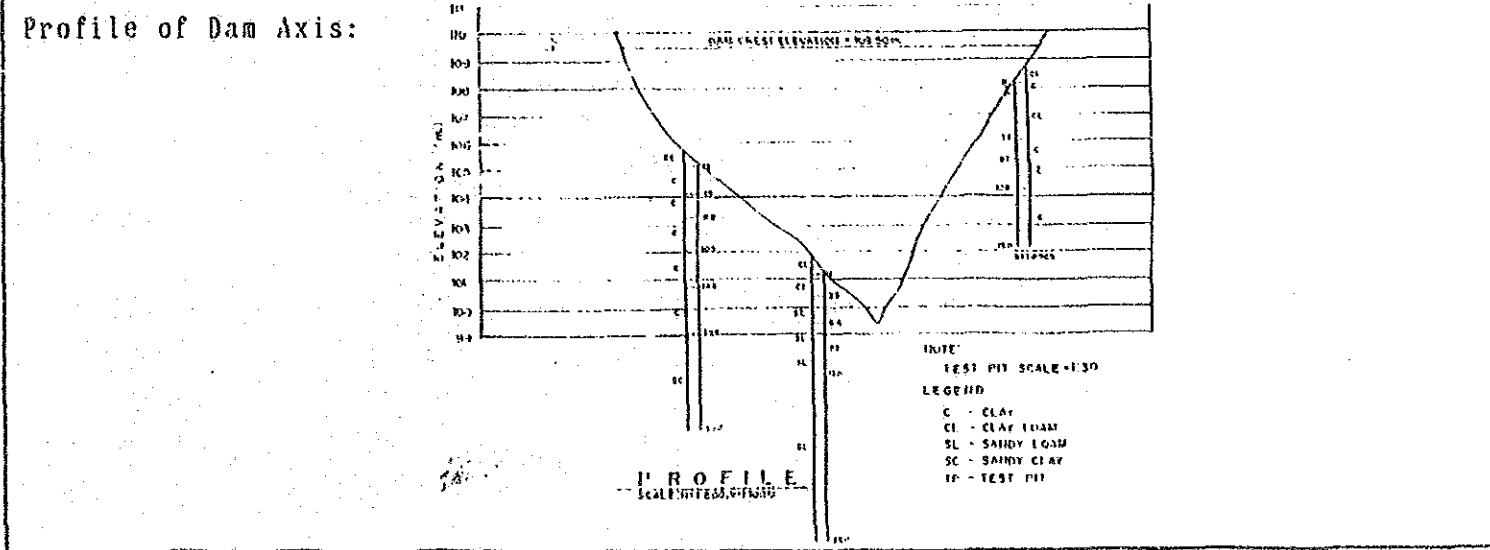
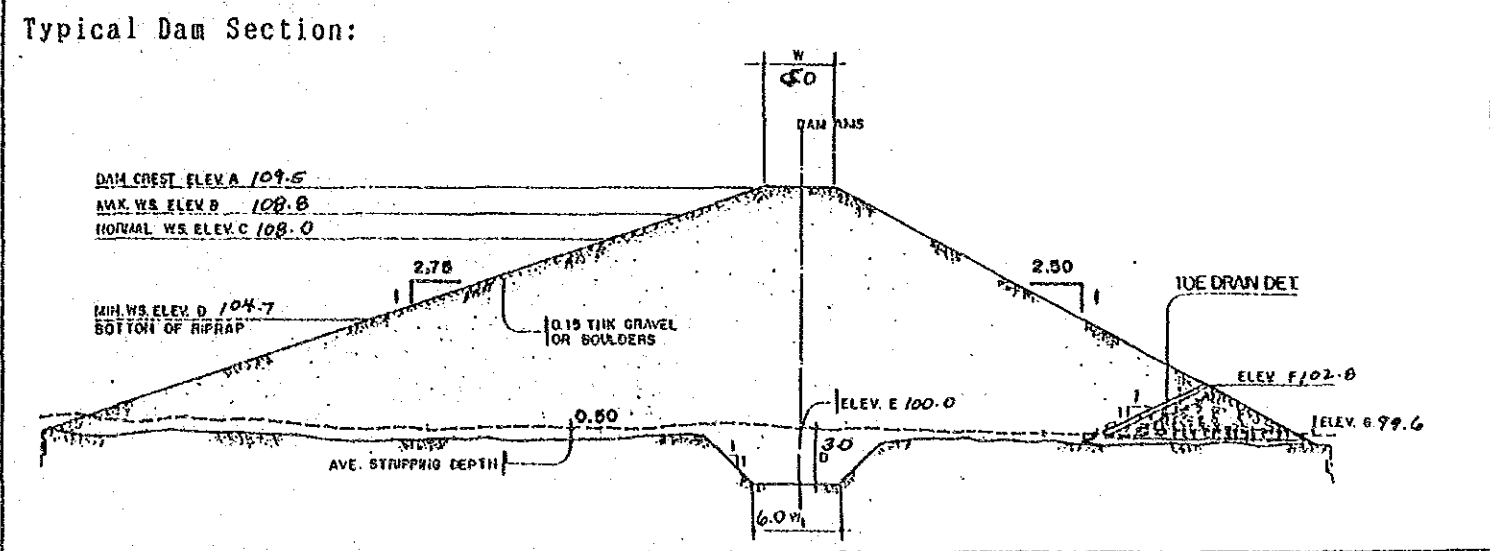
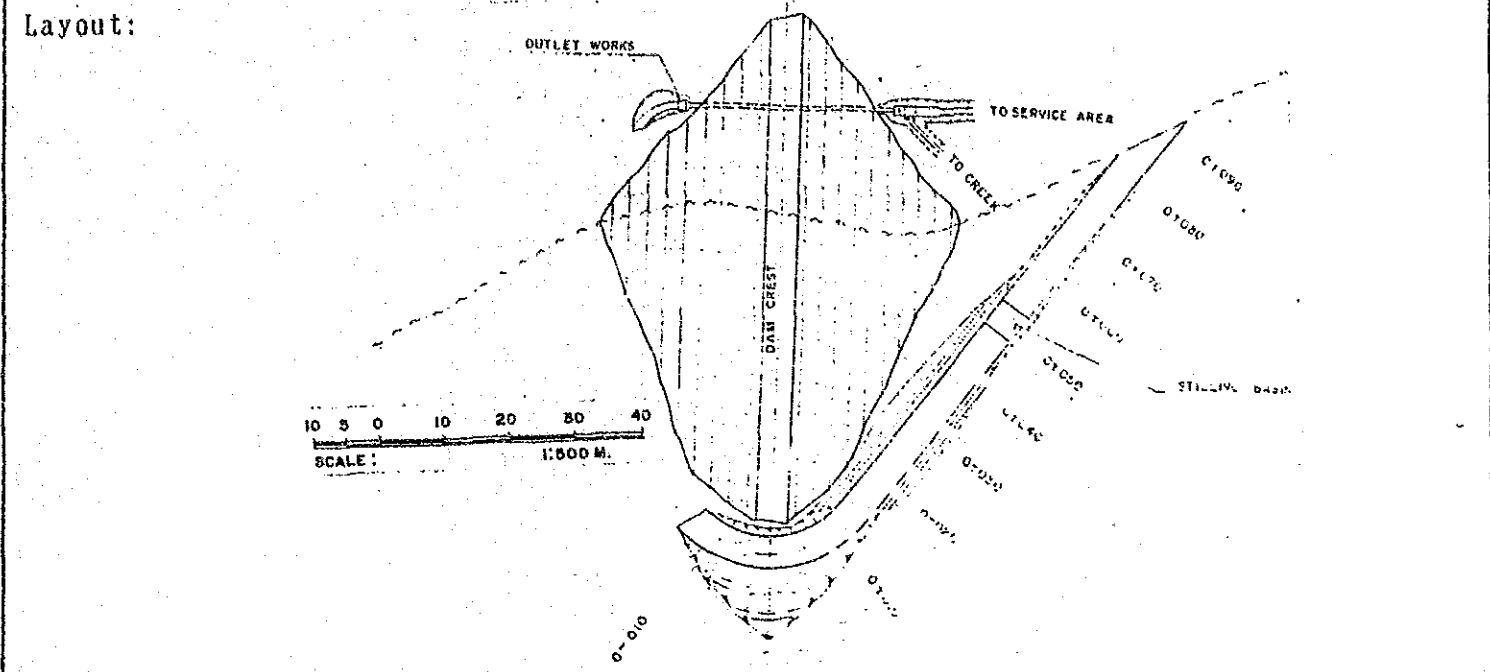
Profile of Dam Axis:



Note:

Silty clay with 1.5-2.0 m depth is piled up on the sand stone and shale. Additional 0.5 m freeboard is necessary.

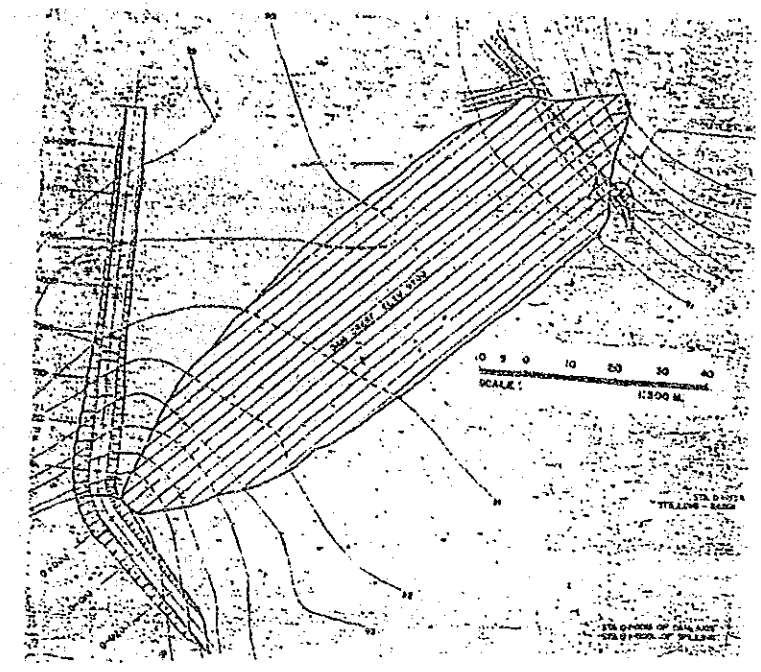
SWIM PROJECT PROFILE		File No. : 127
Regist. No. : Agency No. : BSWM-38	Name : KIRANG SWIP	
Region : 2	Province : NUEVA VIZCAYA	Municipality : ARITAO
Present Status: 1. Pre-F/S() (2) F/S(1983) (3) D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 10 m 46,768 m ³ 15,800 m ³ 9 m ³ /sec.
2. Irrigation	Irrigation Area :	120 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	50 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.		
4. Operation and Maintenance Not studied.		
Funding Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 31.8 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 2,086	Implementation Schedule:
Dam	: 2,086	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 720	Construction: Jul. 1997; 6 months
Watershed Protection	: 5,469	
5. Grand Total		



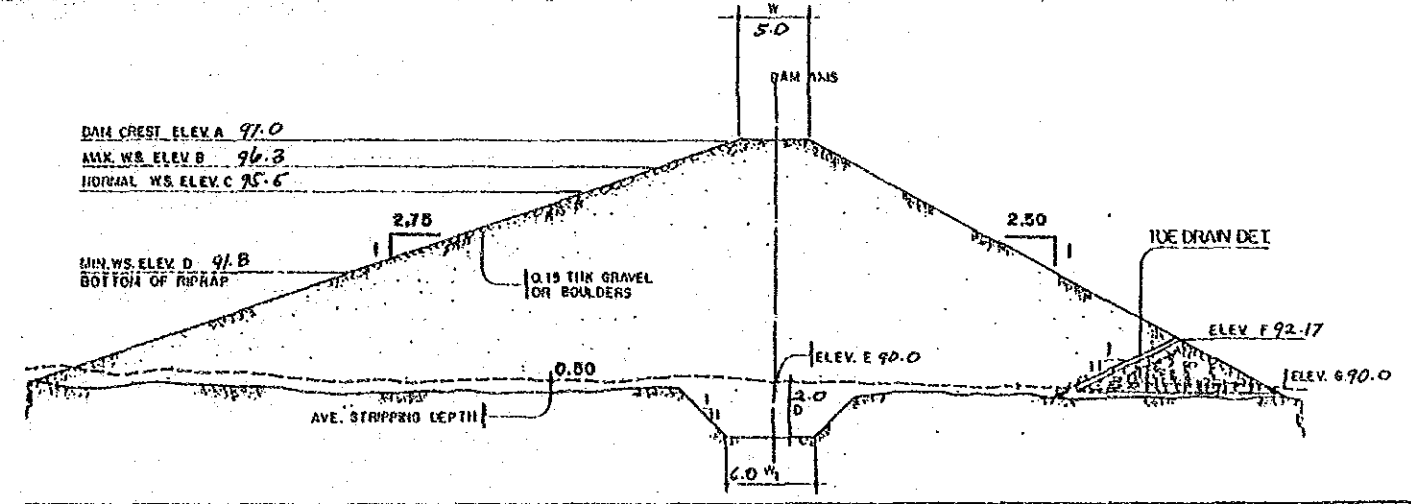
Note: Silty clay with 1.5 m depth is piled up on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 128
Regist. No. : Agency No. : BSWM-39	Name : LANNEG SWIP	
Region : 2	Province : CAGAYAN	Municipality : SOLANA
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	: 7 m
	: Effective Storage Capacity	: 237,027 m ³
	: Embankment Volume	: 22,754 m ³
	: Design Flood Discharge	: 10 m ³ /sec.
2. Irrigation	: Irrigation Area	: 35 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 50 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. Freeboard is not enough. Center line of the spillway shall be shifted to left side. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Funds Requirement: (1,000 Pesos)		Project Evaluation:
Review	: 27	EIRR : 18.9 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : B
Construction		Implementation Schedule:
Dam	: 2,734	Review : 1986
Irrigation	: 777	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan.1997;6 months
Watershed Protection	: 720	
Grand Total	: 4,258	

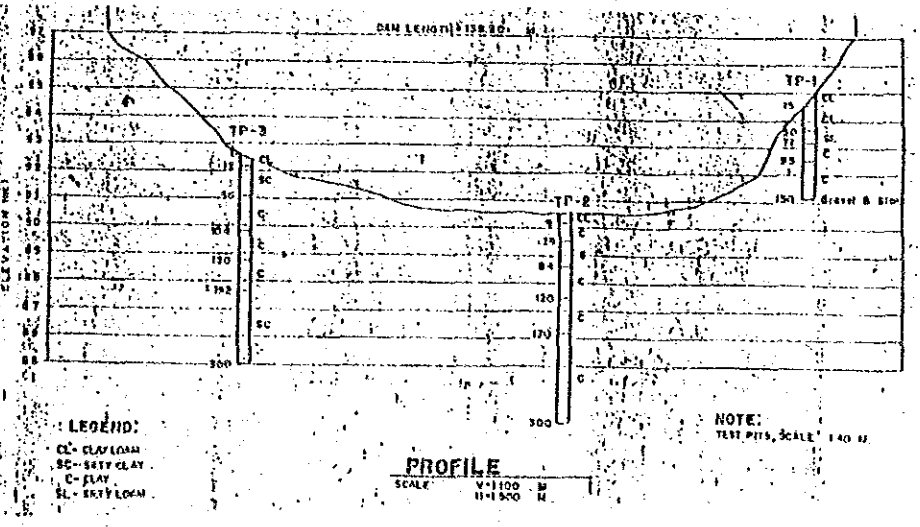
Layout:



Typical Dam Section:



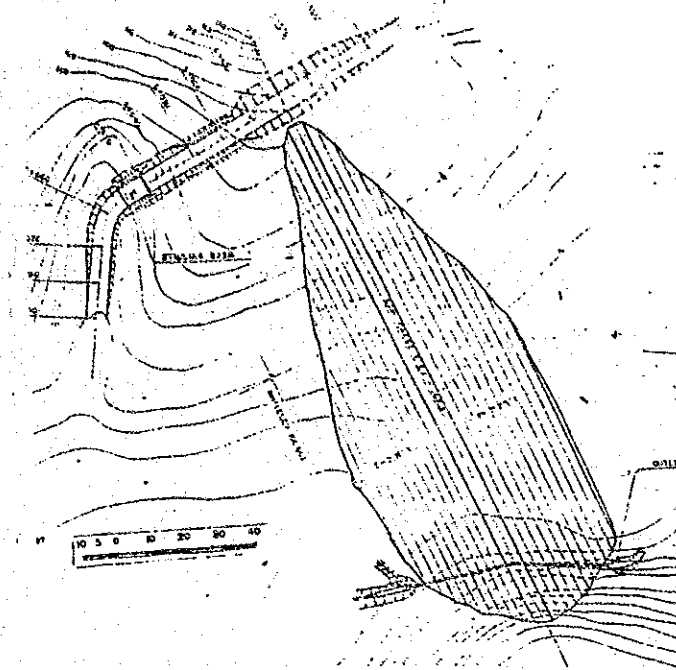
Profile of Dam Axis:



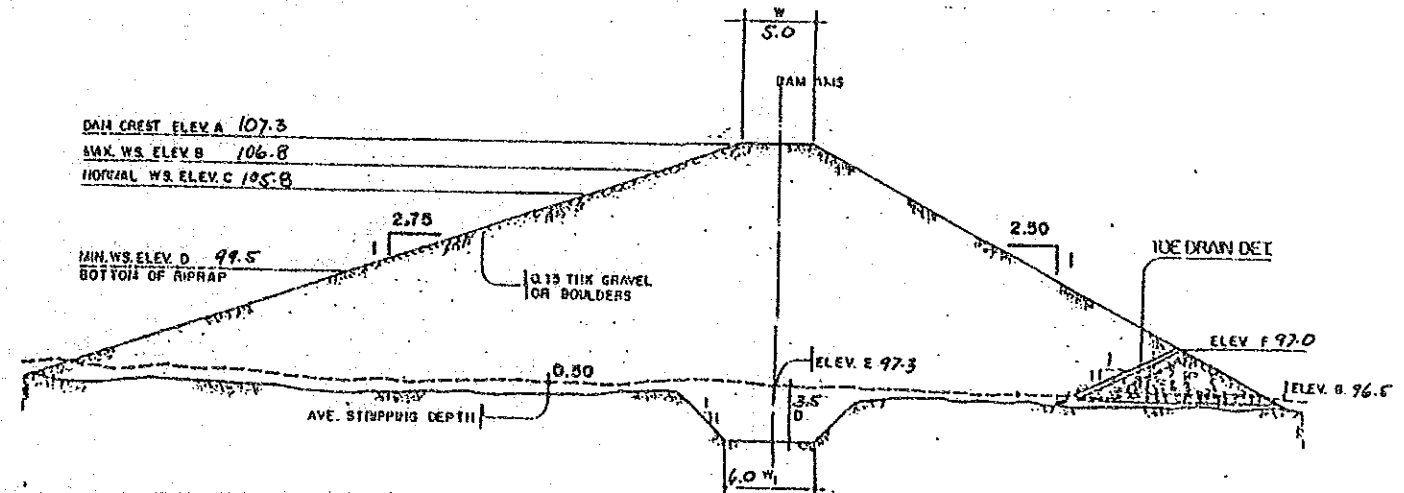
Note: Silty clay with 3.0 m depth is piled up on the sand stone and shale. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 129
Regist. No. : Agency No. : BSWM-40	Name: SAN ANTONIO SWIP	
Region: 2	Province: NUEVA VIZCAYA	Municipality: BAMBANG
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	: HOMOGENOUS EARTHFILL
	: Dam Height	: 10 m
	: Effective Storage Capacity	: 188,255 m ³
	: Embankment Volume	: 41,140 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	: 80 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.		
Freeboard is not enough.		
Weir shall be provided in the spillway.		
Center line of conduit is recommended to be straight.		
4. Operation and Maintenance		
Not studied.		
Cost Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 50	EIRR : 27.4 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction		Implementation Schedule:
Dam	: 4,077	Review : 1994
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1995; 6 months
Watershed Protection	: 1,170	
5. Grand Total	: 7,516	

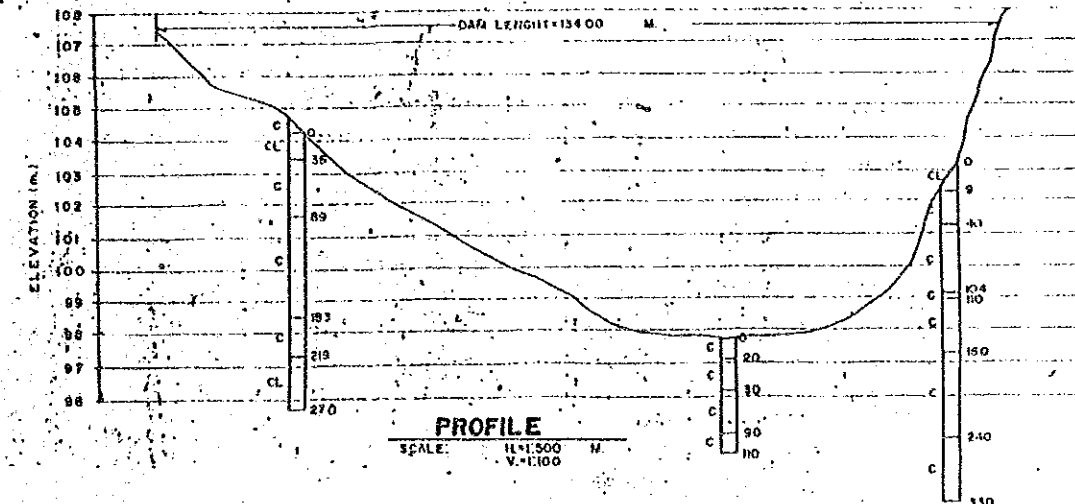
Layout:



Typical Dam Section:



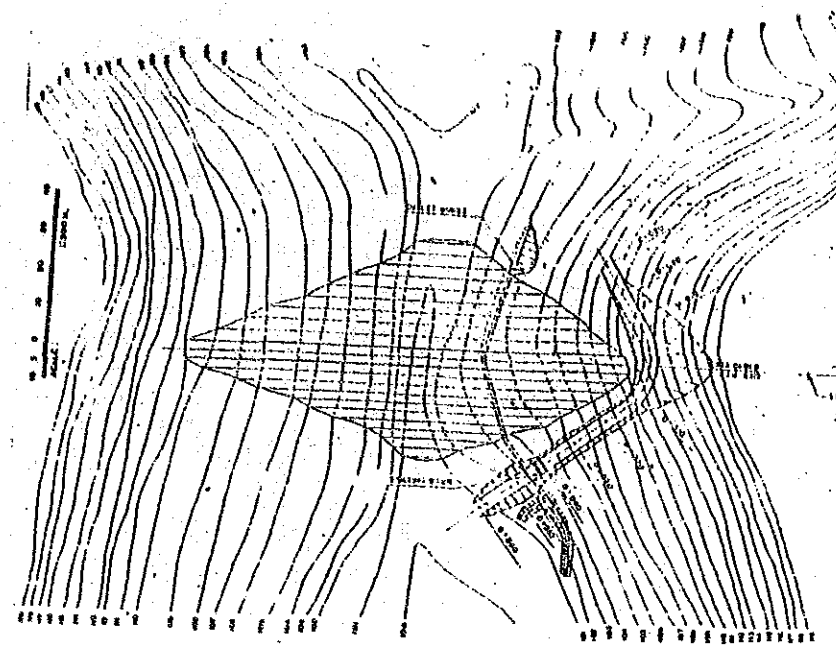
Profile of Dam Axis:



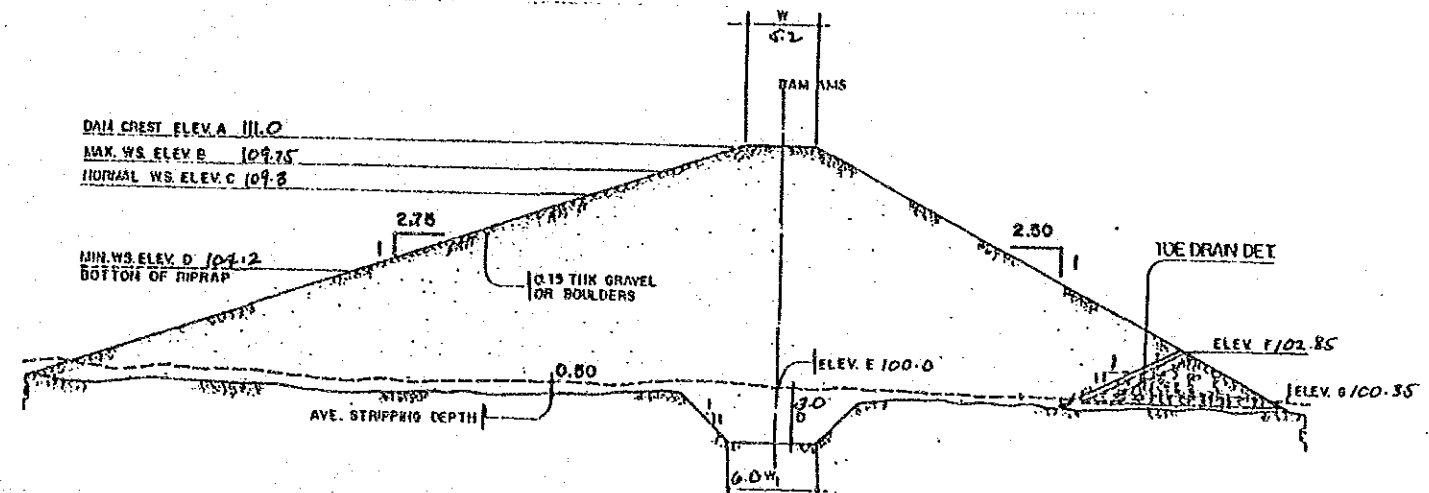
Note: Silty clay with 1.5 m depth is piled up on the metamorphic shale. Additional 1.0 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 130
Regist. No. : Agency No. : BSWM-41	Name: ABIAN SWIP	
Region: 2	Province: NUEVA VIZCAYA	Municipality: BAMBANG
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	: 78,215 m ³
	: Embankment Volume	: 14,500 m ³
	: Design Flood Discharge	: 4 m ³ /sec.
2. Irrigation	: Irrigation Area	: 40 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 20 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 conduit is recommended to be straight.		
4. Operation and Maintenance		
Not studied.		
Cost Requirement: (1,000 Pesos)		Project Evaluation:
Review	: 0	EIRR : 13.4 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : B
Construction	: 2,666	Implementation Schedule:
Dam	: 888	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 303	Construction: Jan. 1989; 6 months
Watershed Protection	: 303	
Grand Total	: 3,857	

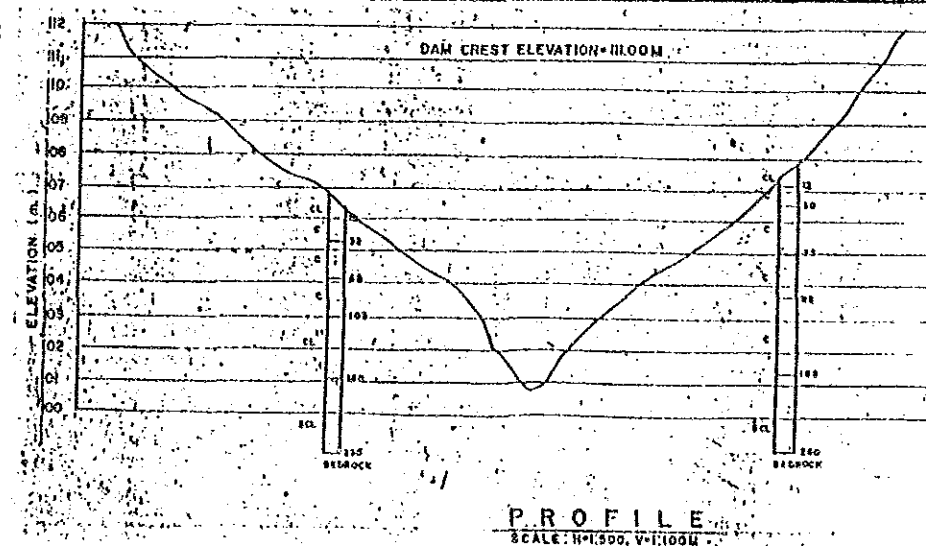
Layout:



Typical Dam Section:



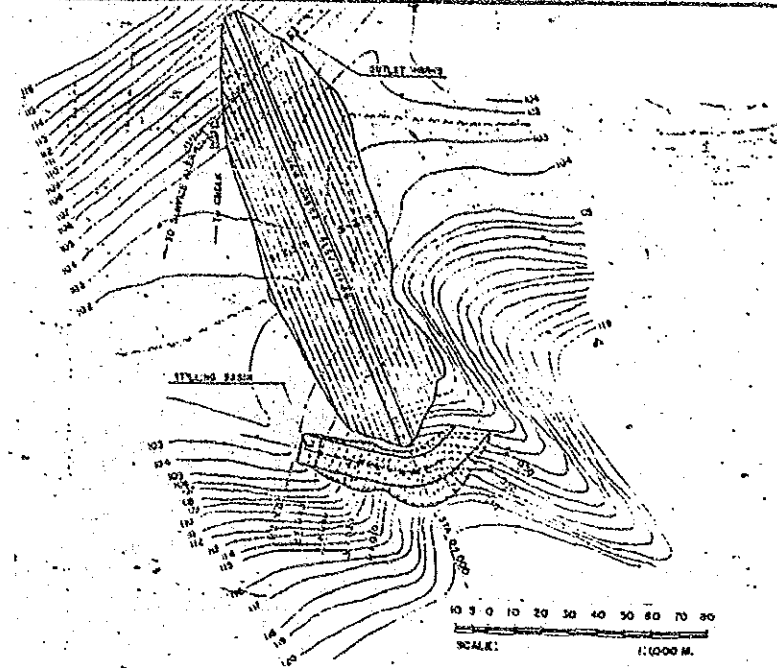
Profile of Dam Axis:



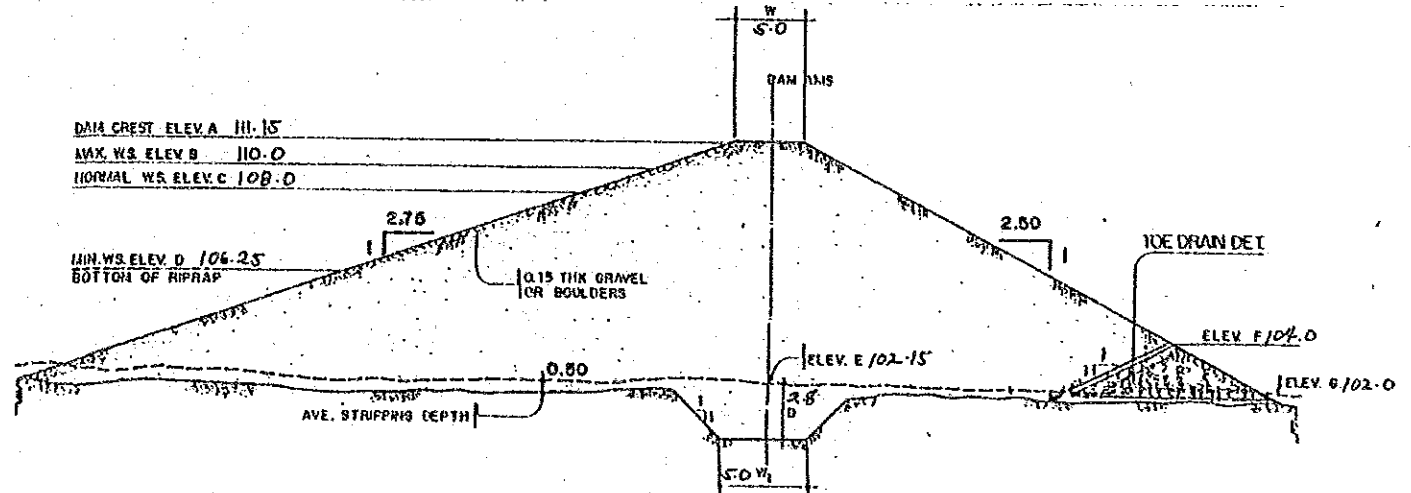
Note: Well consolidated silty clay with 3.0-5.0 m depth is piled up on the metamorphic shale.

SWIM PROJECT PROFILE		File No. : 131
Regist. No. : Agency No. : BSWM-42	Name: TRINIDAD SWIP	
Region: 2	Province: ISABELA	Municipality: MALLIG
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	140,487 m ³
	Embankment Volume	37,600 m ³
	Design Flood Discharge	30 m ³ /sec.
2. Irrigation	Irrigation Area	50 ha
3. Mini-hydropower	Installed Capacity	0 kW
4. Watershed Man.	Watershed Protection Area	260 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.		
4. Operation and Maintenance Not studied.		
Funds Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 16.3 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction		Implementation Schedule:
Dam	: 4,623	Review : -
Irrigation	: 1,109	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1984; 9 months
Watershed Protection	: 3,792	
5. Grand Total	: 8,524	

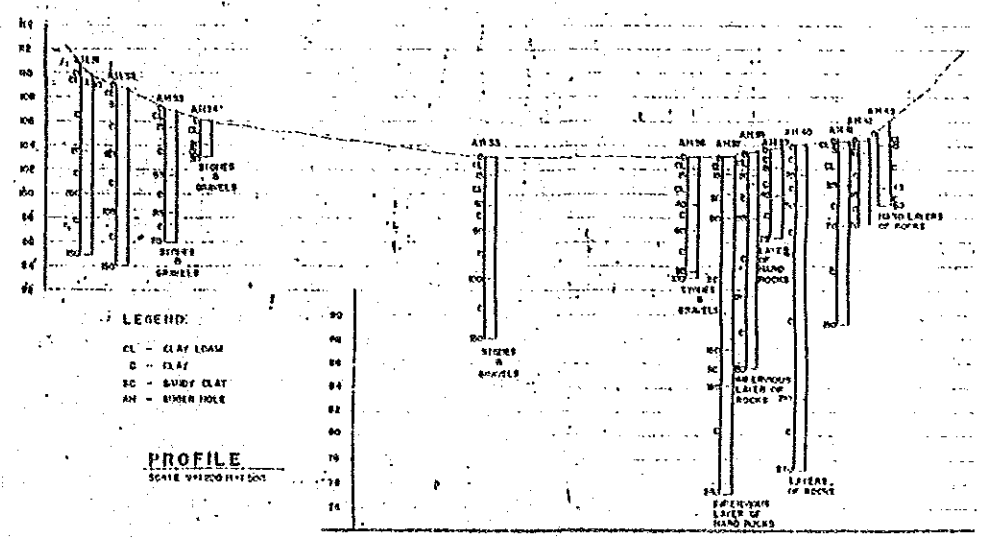
Layout:



Typical Dam Section:



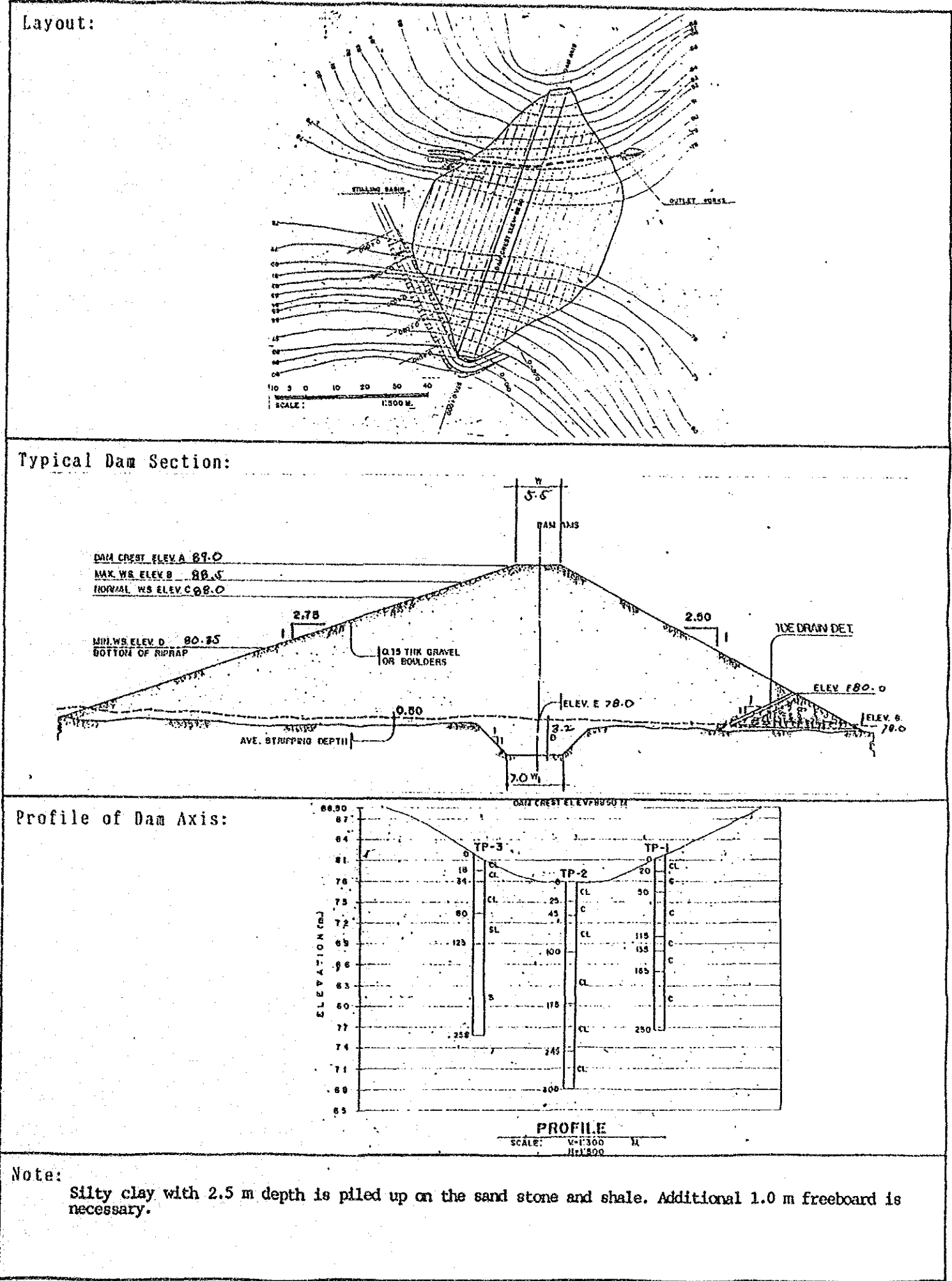
Profile of Dam Axis:



Note:

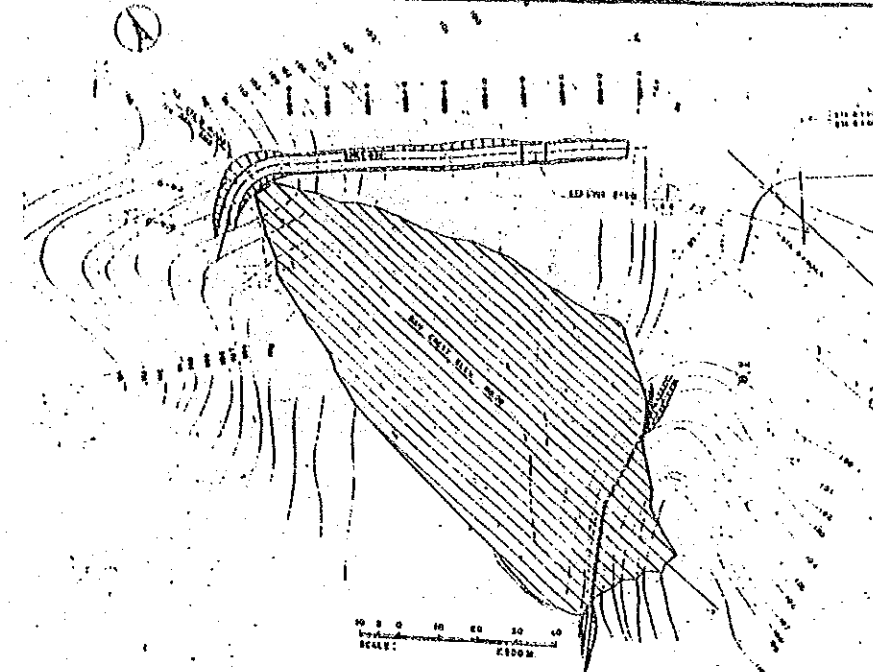
Slity clay with 2.5 m depth is piled on the sand stone and shale.

SWIM PROJECT PROFILE		File No. : 132
Regist. No. : Agency No. : BSWM-43	Name: MALALAM SWIP	
Region: 2	Province: ISABELA	Municipality: ILAGAN
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	: 373,000 m ³
	: Embankment Volume	: 24,890 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	: 80 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. Center line of conduit is recommended to be straight.		
4. Operation and Maintenance Not studied.		
Funds Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 34	EIRR : 13.3 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction		Implementation Schedule:
Dam	: 2,821	Review : 1997
Irrigation	: 1,553	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1998; 6 months
Watershed Protection	: 1,170	
5. Grand Total	: 5,579	

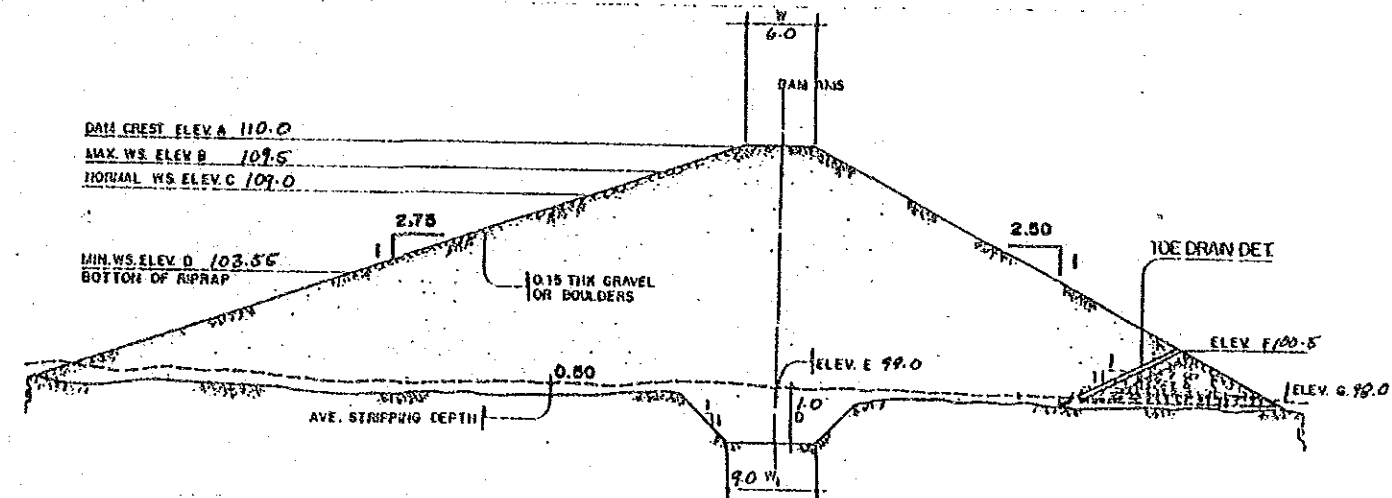


SWIM PROJECT PROFILE		File No. : 133
Regist. No. : Agency No. : BSWM-44	Name : APANG SWIP	
Region : 2	Province : CAGAYAN	Municipality : CLAVERIA
Present Status: 1. Pre-F/S() ② F/S(1983) ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 11 m
	: Effective Storage Capacity	: 79,574 m ³
	: Embankment Volume	: 38,437 m ³
	: Design Flood Discharge	: 11 m ³ /sec.
2. Irrigation	: Irrigation Area	: 50 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 40 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.		
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.		
Freeboard is not enough.		
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	: 87	EIRR : 8.3 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : B
Construction	: 4,345	Implementation Schedule:
Dam	: 1,109	Review : 1891
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 580	Construction: Jan. 2000; 6 months
Watershed Protection	: 6,122	
Grand Total		

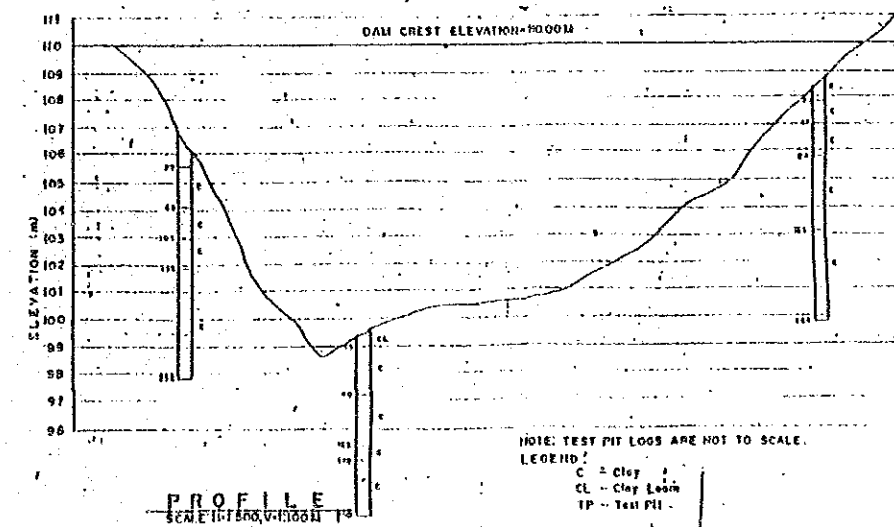
Layout:



Typical Dam Section:



Profile of Dam Axis:

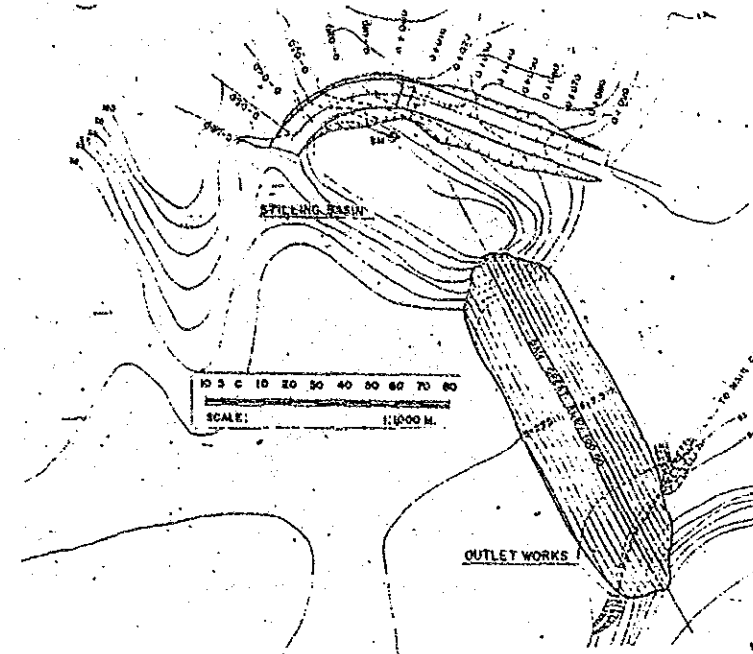


Note:

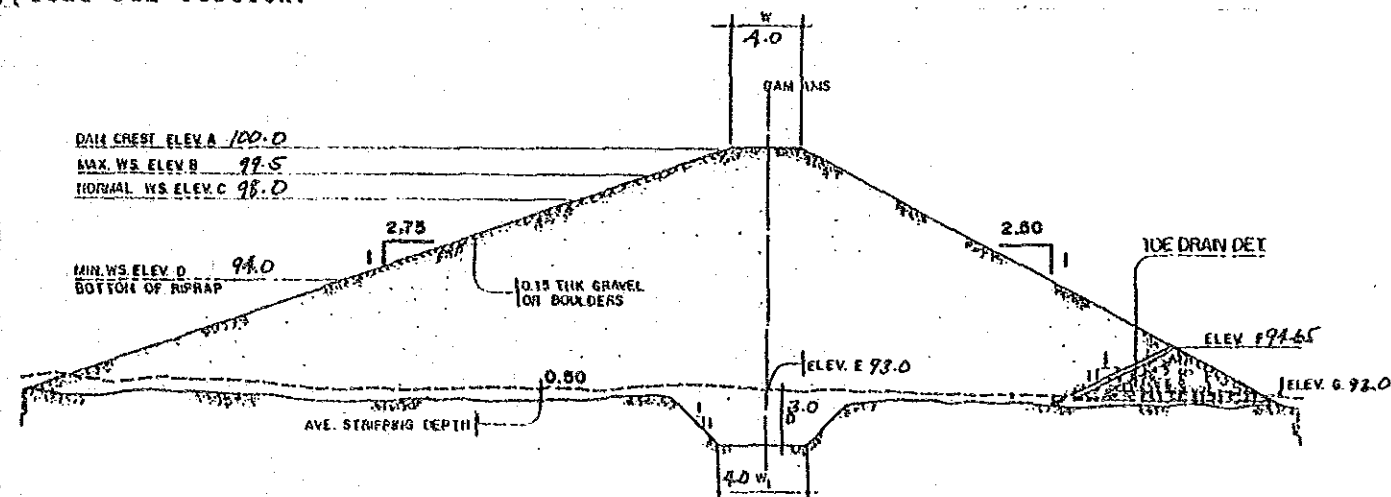
Silty clay with 2.0 m depth is piled up on the sand stone. Additional 1.0 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 134
Regist. No. : Agency No. : BSWM-45	Name : ANNEG SWIP	
Region : 2	Province : ISABELA	Municipality : MAGSAYSAY
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	: 7 m
	: Effective Storage Capacity	: 290,838 m ³
	: Embankment Volume	: 36,729 m ³
	: Design Flood Discharge	: 55 m ³ /sec.
2. Irrigation	: Irrigation Area	: 250 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 410 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. Topographic maps for dam site shall be prepared with 1 m contour at a scale of 1/500 or more.		
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. Center line of conduit is recommended to be straight.		
4. Operation and Maintenance Not studied.		
Funds Requirement: (1,000 Pesos)		Project Evaluation:
Review	: 94	EIRR : 35.7 %
Feasibility Study	: 0	Priority Rating:
Detailed Design	: 0	Group : A
Construction		Implementation Schedule:
Dam	: 6,325	Review : 1991
Irrigation	: 5,547	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jan. 1992; 6 months
Watershed Protection	: 6,252	
Grand Total	: 18,217	

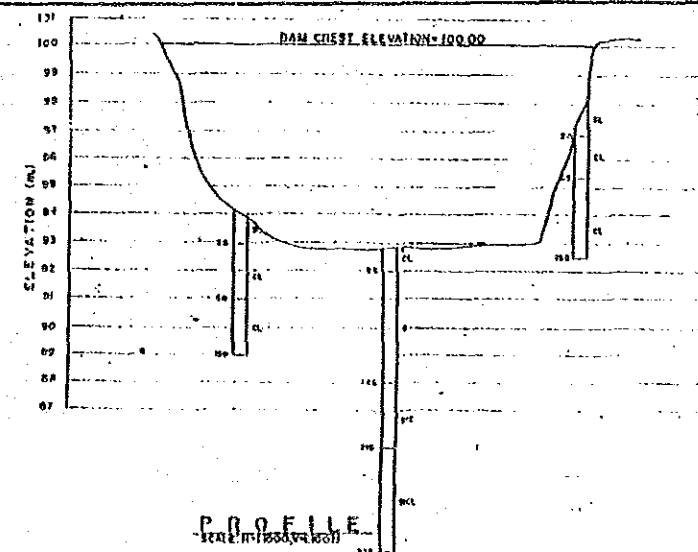
Layout:



Typical Dam Section:



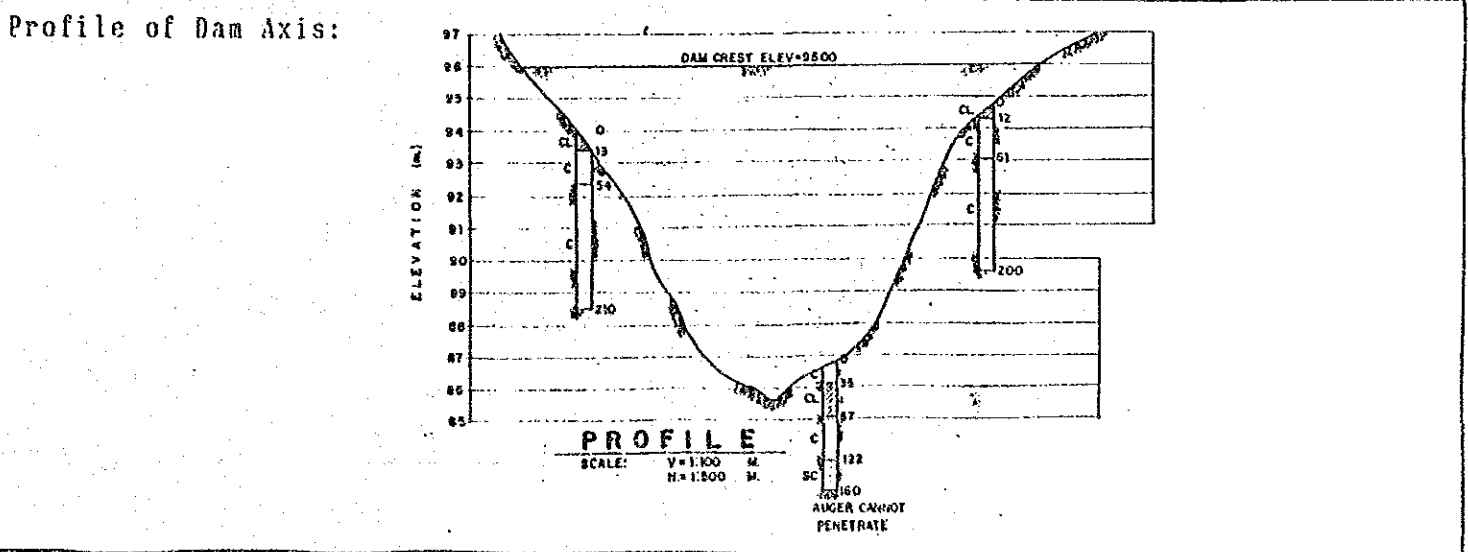
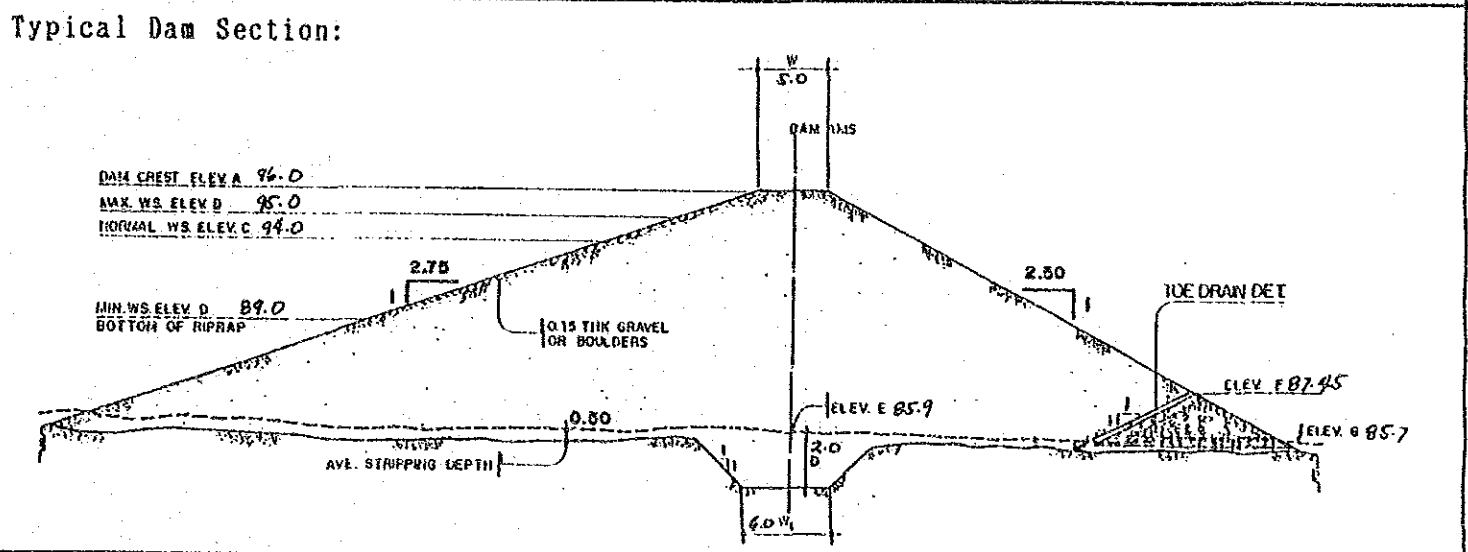
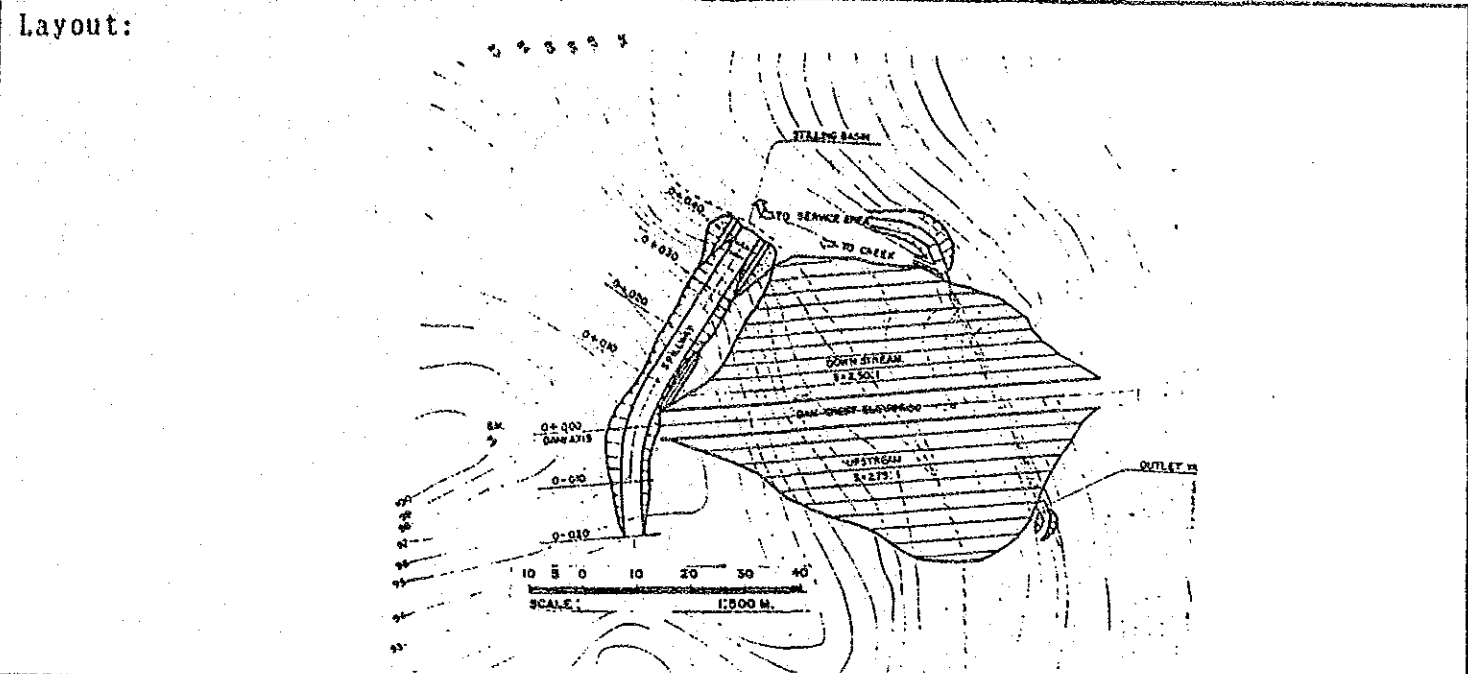
Profile of Dam Axis:



Note:

Silty clay with 2.0-2.3 m depth is piled up on the sand stone and shale. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 135
Regist. No. : Agency No. : BSWM-46	Name: VICTORIA 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 EARTHFILL	
	Dam Height : 10 m	
	Effective Storage Capacity : 102,550 m ³	
	Embankment Volume : 15,800 m ³	
	Design Flood Discharge : 8 m ³ /sec.	
2. Irrigation	Irrigation Area : 40 ha	
3. Mini-hydropower	Installed Capacity : 0 kW	
4. Watershed Man.	Watershed Protection Area : 50 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. Topographic maps for dam site shall be prepared with 1 m contour at a scale of 1/500 or more.		
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.		
4. Operation and Maintenance Not studied.		
Funding Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 24.7 %
2. Feasibility Study	: 0	
3. Detailed Design	: 0	Priority Rating:
4. Construction	: 0	Group : A
5. Dam	: 1,969	Implementation Schedule:
6. Irrigation	: 888	Review : -
7. Mini-Hydropower	: 0	F/S : Completed
8. Water Supply	: 0	D/D : Completed
9. Watershed Protection	: 720	Construction: Jul.1993; 6 months
10. Grand Total	: 3,576	



Note: Silty clay with 1.6 m depth is piled up on the sand stone and shale.