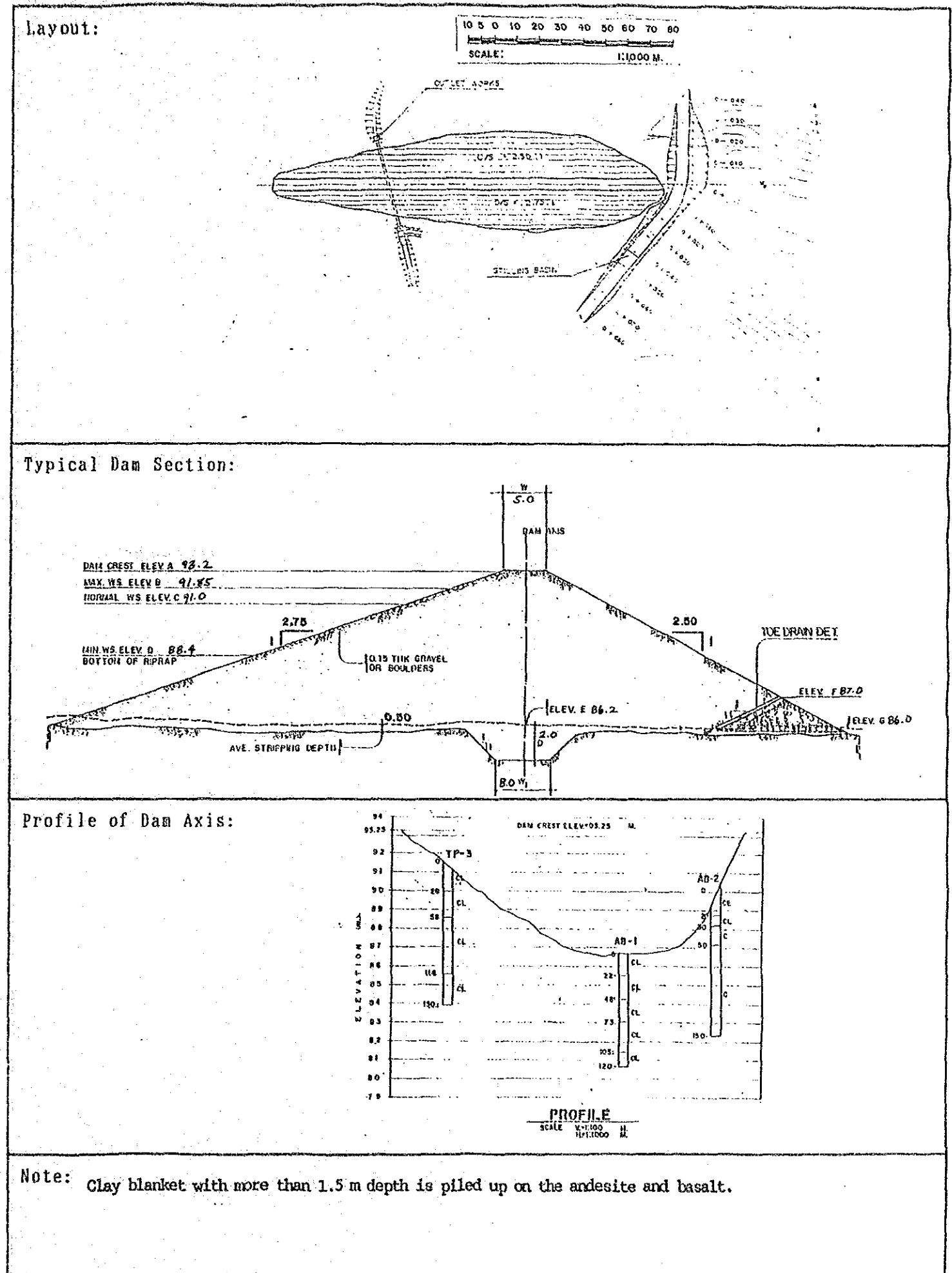
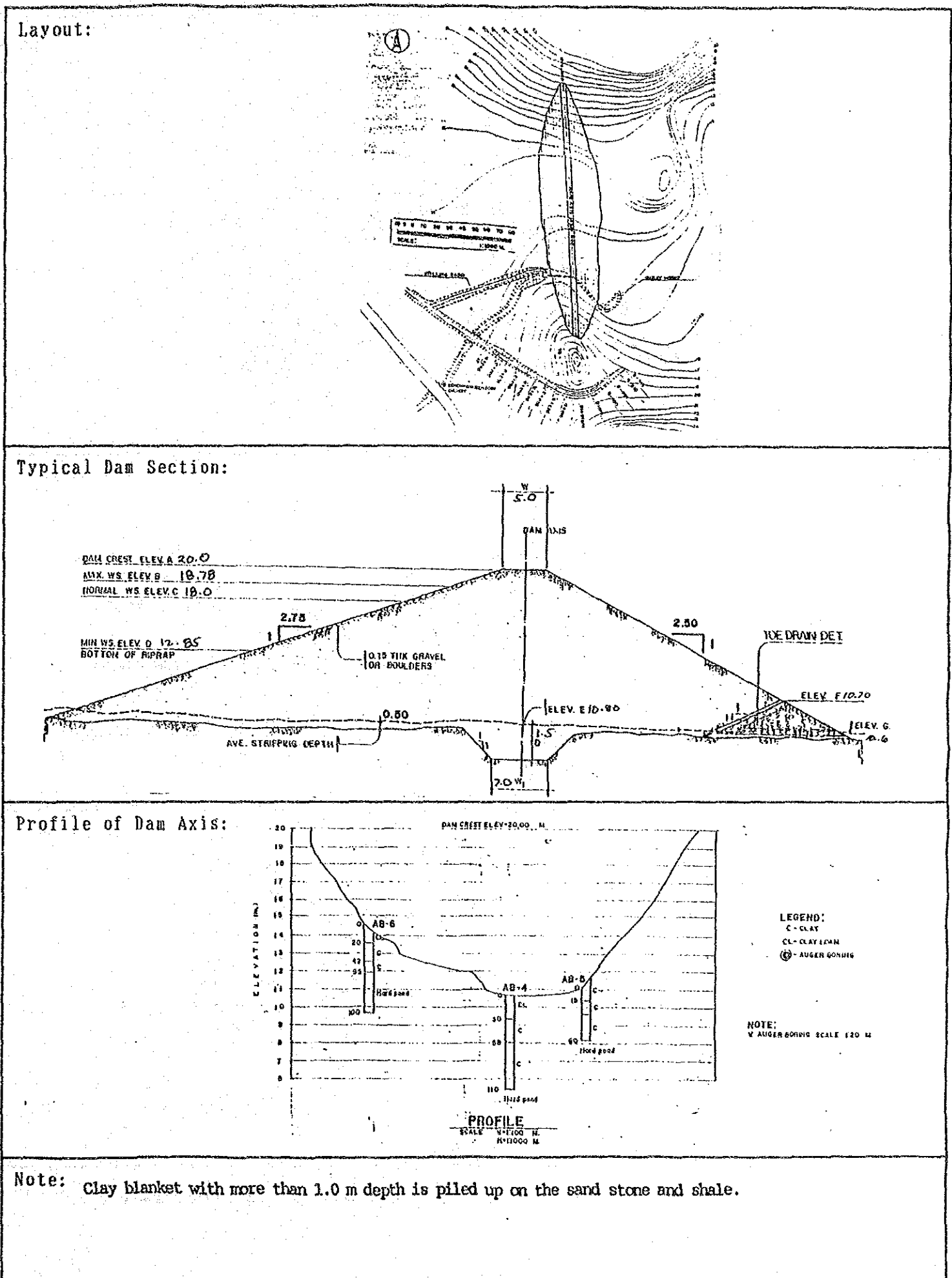


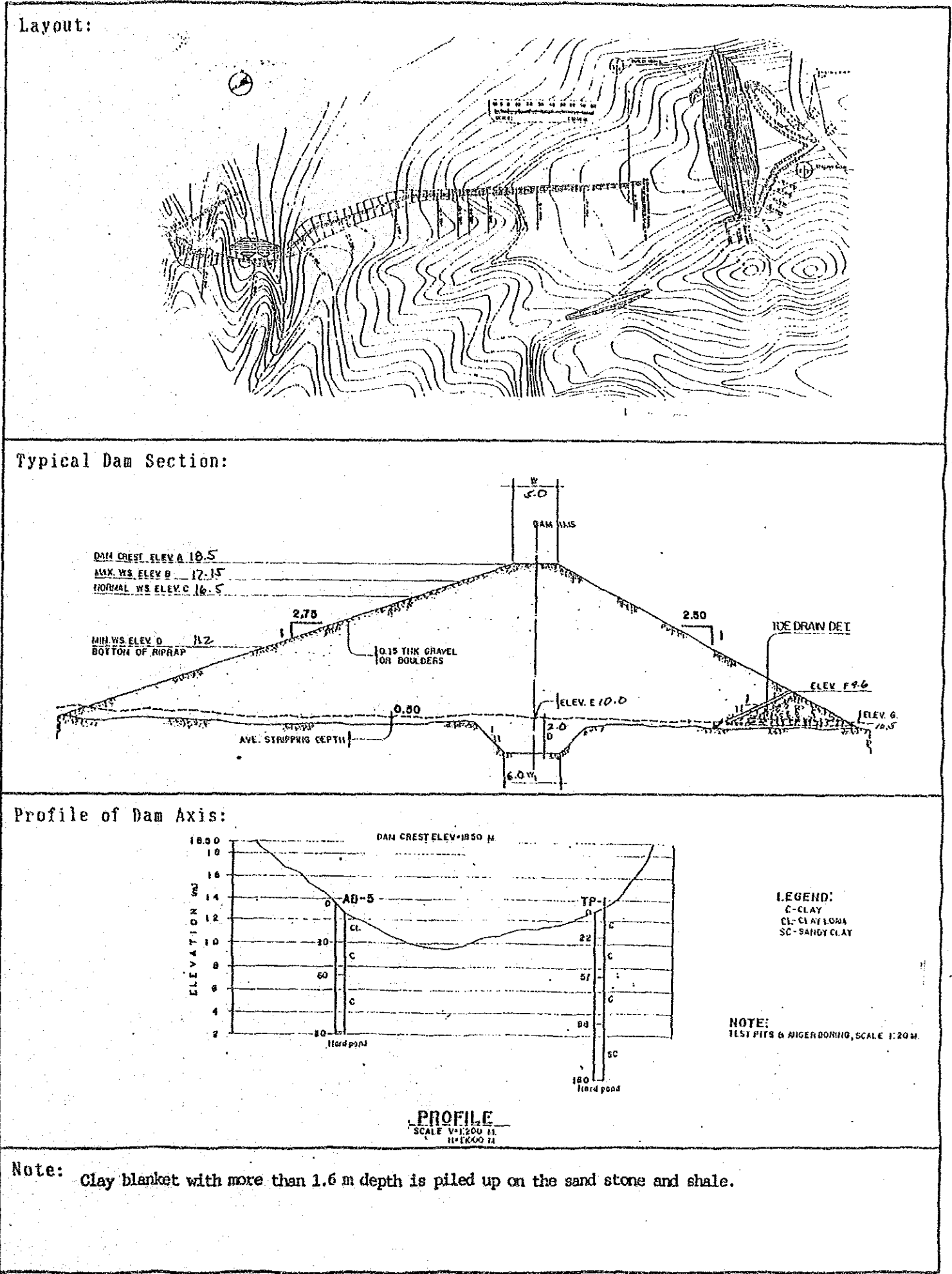
SWIM PROJECT PROFILE		File No. : 224
Regist. No. : Agency No. : BSWM-144	Name : LOOY SWIP	
Region: 12	Province: MAGUINDANAO	Municipality: SOUTH UPI
Present Status: 1. Pre-F/S( ) (2) F/S(1983) (3) D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 7 m
	: Effective Storage Capacity	: 89,613 m <sup>3</sup>
	: Embankment Volume	: 49,200 m <sup>3</sup>
	: Design Flood Discharge	: 10 m <sup>3</sup> /sec.
2. Irrigation	: Irrigation Area	: 85 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 0 ha
5. Water Supply	: Design Supply Capacity	: 0 m <sup>3</sup> /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. 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. Weir shall be provided in the spillway.		
4. Operation and Maintenance Not studied.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 19.9 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 5,482	Implementation Schedule:
Dam	: 1,886	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1991; 9 months
Watershed Protection	: 0	
5. Grand Total	: 7,368	



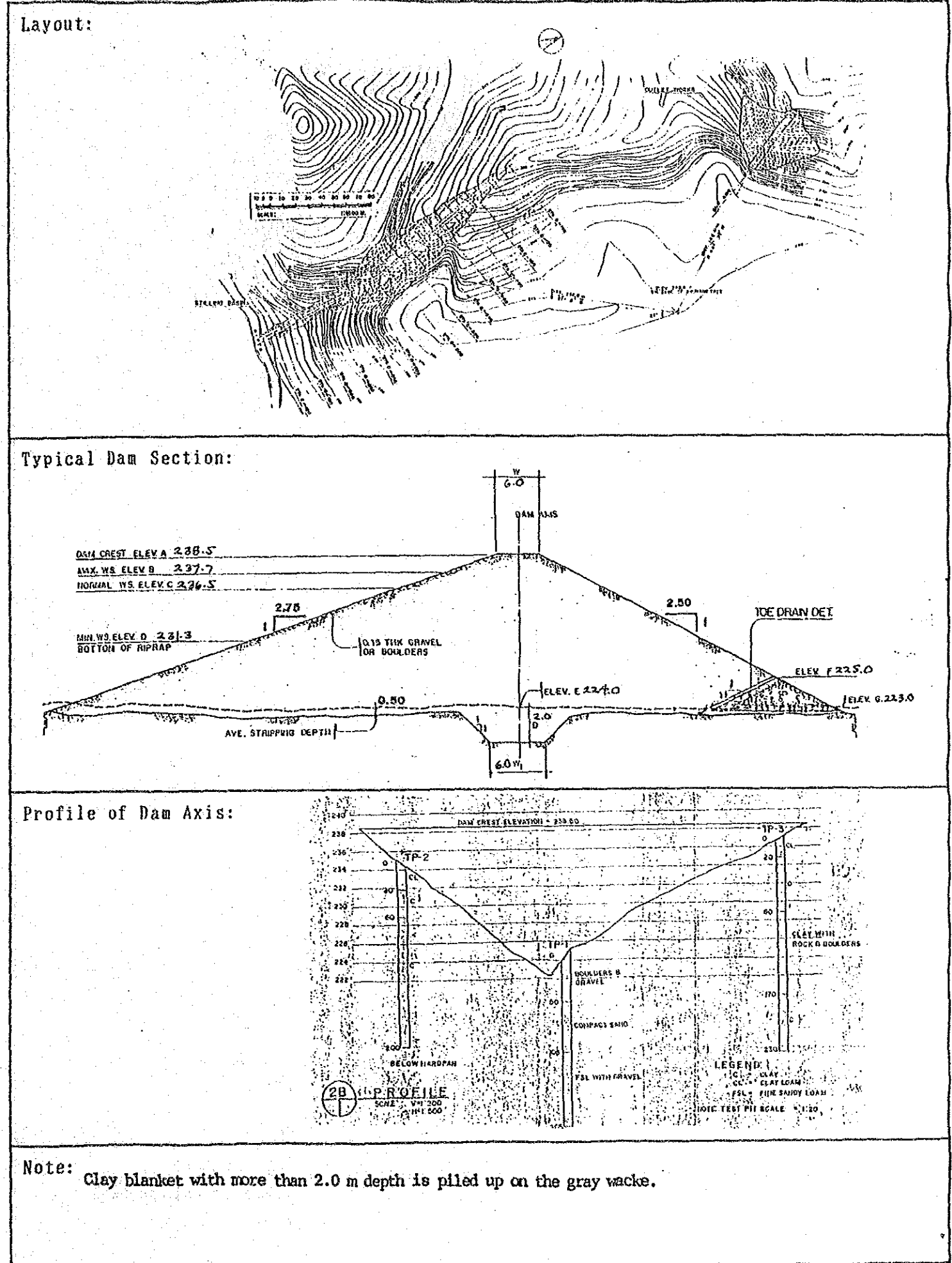
SWIM PROJECT PROFILE		File No. : 225
Regist. No. : Agency No. : BSWM-145	Name: DALINGAWEN SWIP	
Region: 12	Province: NORTH COTABATO	Municipality: PIKIT
Present Status: 1. Pre-F/S( ) (2) F/S(1983) (3) D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 9 m
	: Effective Storage Capacity	: 241,742 m <sup>3</sup>
	: Embankment Volume	: 37,000 m <sup>3</sup>
	: Design Flood Discharge	: 18 m <sup>3</sup> /sec.
2. Irrigation	: Irrigation Area	: 250 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 60 ha
5. Water Supply	: Design Supply Capacity	: 0 m <sup>3</sup> /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. 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. 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 : 38.8 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 0	(OECF Candidate)
Dam	: 5,058	Implementation Schedule:
Irrigation	: 5,547	Review : -
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 0	D/D : Completed
Watershed Protection	: 1,461	Construction: within 1st 5 years
5. Grand Total	: 12,066	



SWIM PROJECT PROFILE		File No. : 226
Regist.No.:	Name:	
Agency No.: BSWM-146	TINIBTIBAN	
Region:	Province:	Municipality:
12	NORTH COTABATO	PIKIT
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	: 100,789 m <sup>3</sup>
	: Embankment Volume	: 34,000 m <sup>3</sup>
	: Design Flood Discharge	: 7 m <sup>3</sup> /sec.
2. Irrigation	: Irrigation Area	: 120 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 54 ha
5. Water Supply	: Design Supply Capacity	: 0 m <sup>3</sup> /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.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 33.0 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	: 4,238	Implementation Schedule:
Dam	: 2,663	Review : -
Irrigation	: 0	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 1,313	Construction: Jul. 1986; 9 months
Watershed Protection	: 8,214	
5. Grand Total	: 8,214	

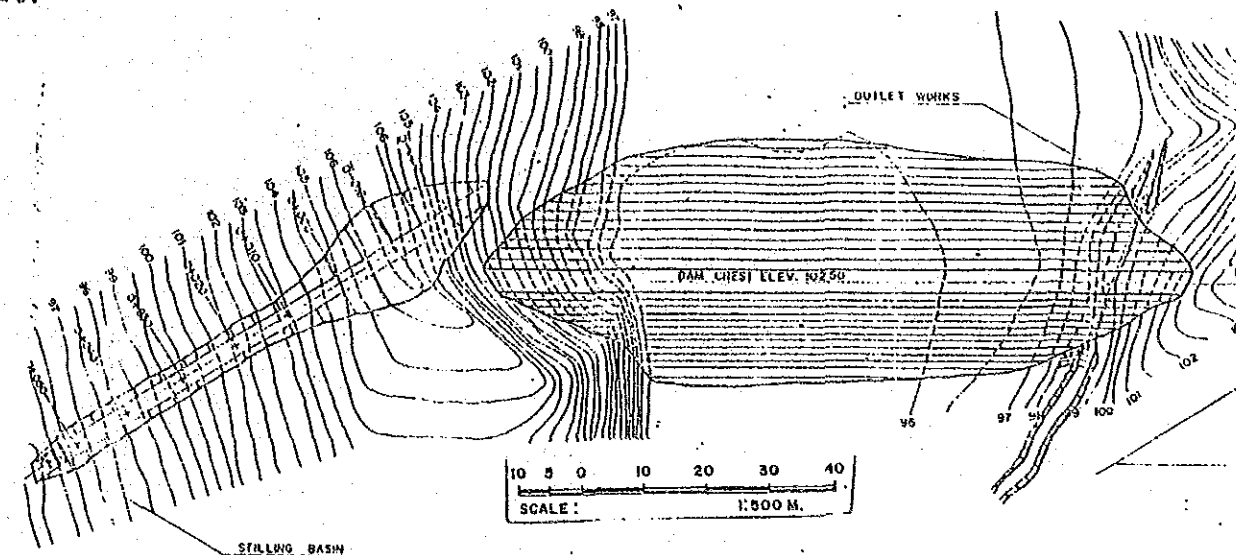


SWIM PROJECT PROFILE		File No. : 227
Regist. No. : Agency No. : BSWM-147	Name: BUSOK SWIP	
Region: 12	Province: SULTAN KUDARAT	Municipality: BAGUMBAYAN
Present Status: 1. Pre-F/S( ) (2) F/S(1983) (3) D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 14 m
	: Effective Storage Capacity	: 78,125 m <sup>3</sup>
	: Embankment Volume	: 19,000 m <sup>3</sup>
	: Design Flood Discharge	: 13 m <sup>3</sup> /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 <sup>3</sup> /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.		
Fund Requirement: (1,000 Pesos)		Project Evaluation:
1. Review	: 0	EIRR : 22.3 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : A
4. Construction	: 0	Implementation Schedule:
Dam	: 3,027	Review : -
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1983; 6 months
Watershed Protection	: 1,166	
5. Grand Total	: 6,412	

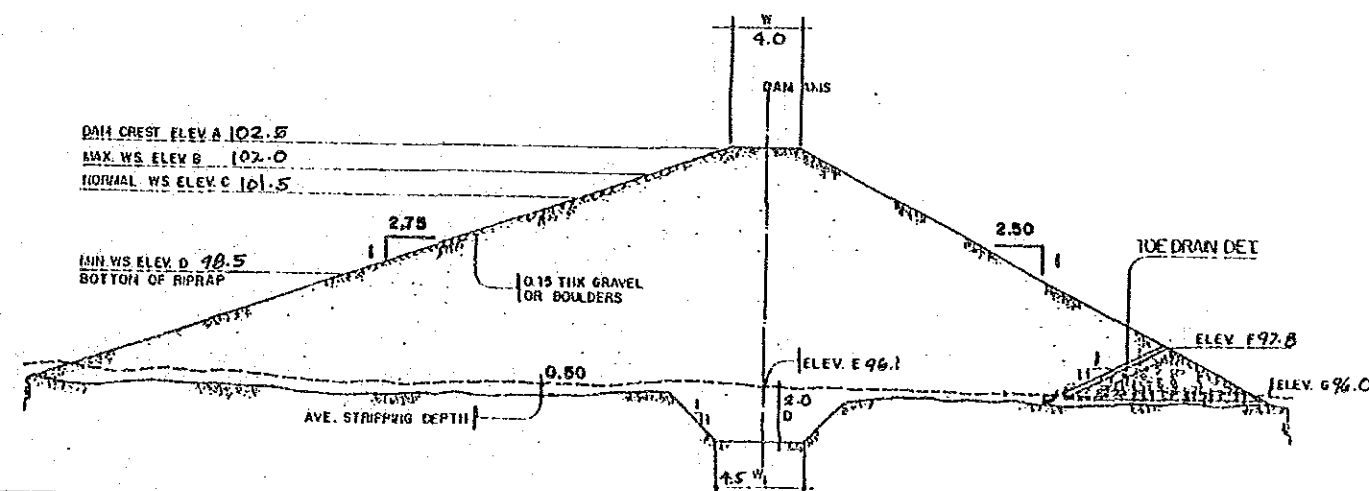


SWIM PROJECT PROFILE		File No. : 228
Regist.No. : Agency No. : BSWM-149	Name : LANCHETA SWIP	
Region : 12	Province : SULTAN KUDARAT	Municipality : TACURONG
Present Status : 1. Pre-F/S( )    ② F/S(1983)    ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	: Dam Type	: HOMOGENEOUS EARTHFILL
	: Dam Height	: 6 m
	: Effective Storage Capacity	: 55,973 m <sup>3</sup>
	: Embankment Volume	: 13,167 m <sup>3</sup>
	: Design Flood Discharge	: 5 m <sup>3</sup> /sec.
2. Irrigation	: Irrigation Area	: 20 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 12 ha
5. Water Supply	: Design Supply Capacity	: 0 m <sup>3</sup> /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. 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	: 23	EIRR : 10.0 %
2. Feasibility Study	: 0	
3. Detailed Design	: 0	
4. Construction	: 2,752	Priority Rating: Group : A (OECF Candidate)
Dam	: 2,752	Implementation Schedule:
Irrigation	: 444	Review : within 1st 5 years
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 0	D/D : Completed
Watershed Protection	: 293	Construction: within 1st 5 years
5. Grand Total	: 3,511	

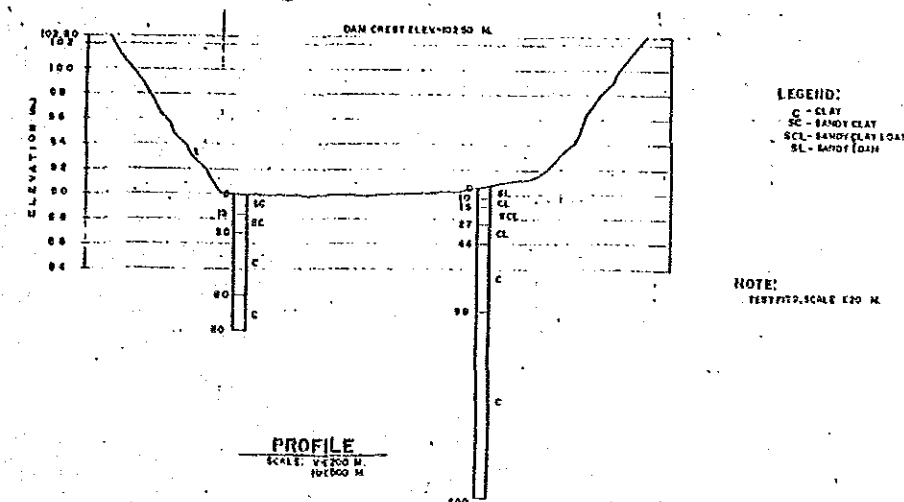
Layout:



Typical Dam Section:

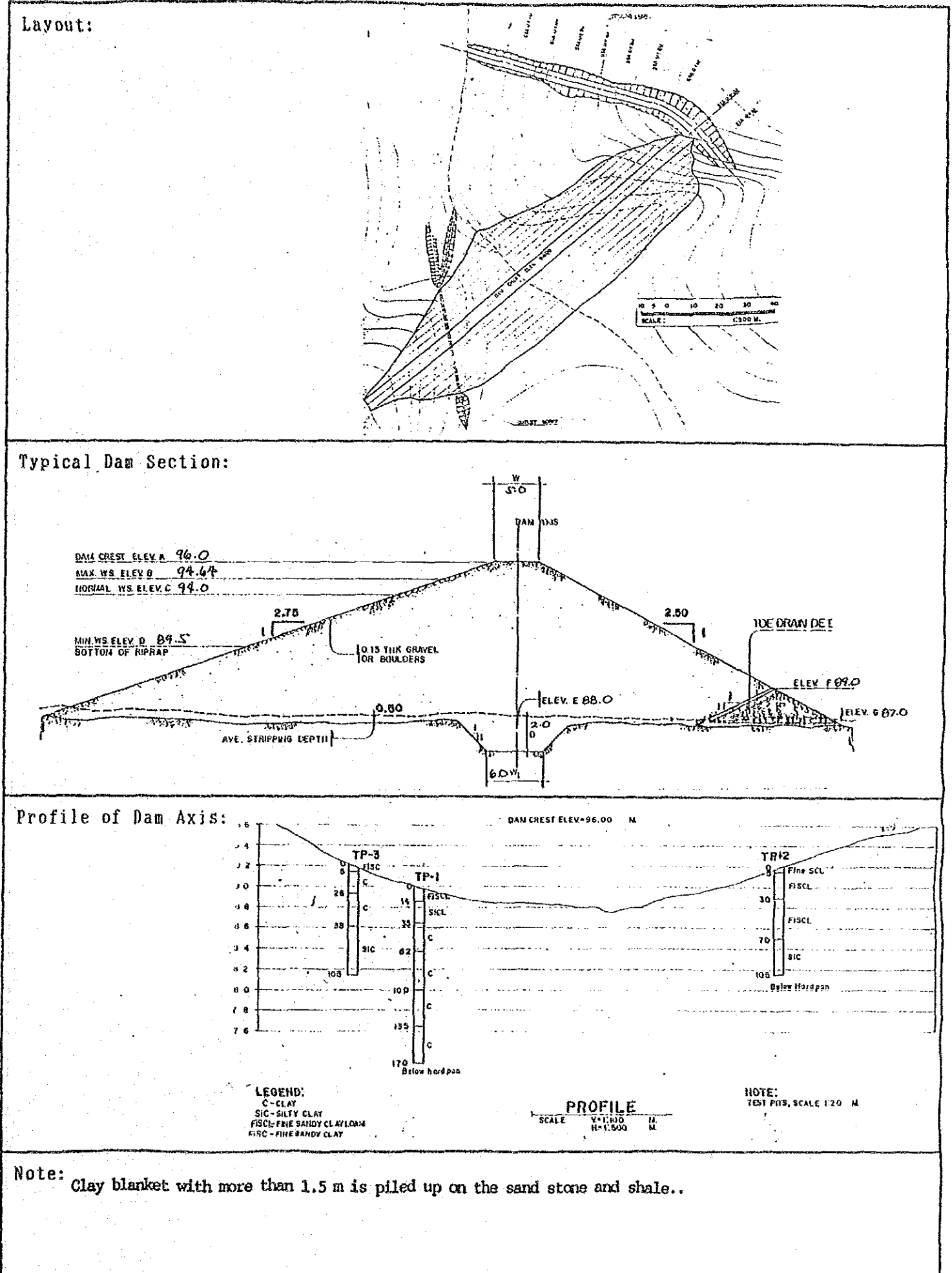


Profile of Dam Axis:



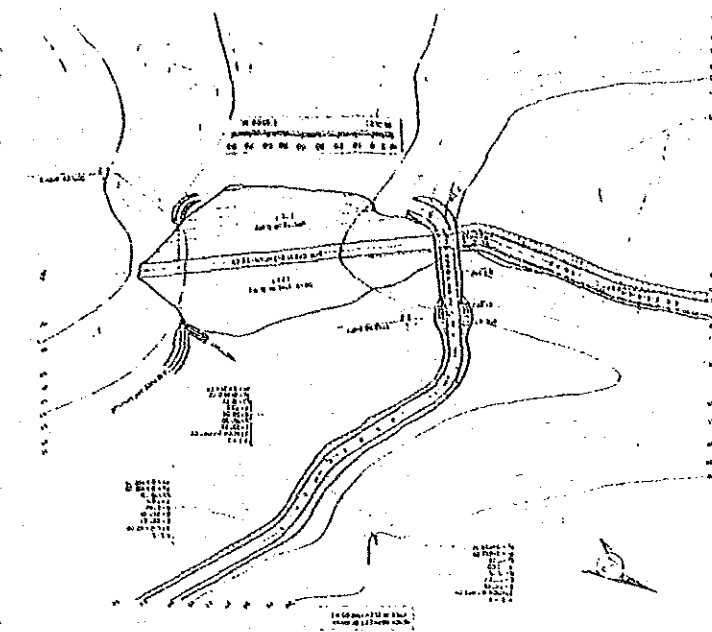
Note: Clay blanket with more than 2.0 m depth is piled up on the sand stone and shale. Additional 0.5 m freeboard is necessary.

SWIM PROJECT PROFILE		File No. : 229
Regist. No. : Agency No. : BSWM-150	Name : NEW CARMEN SWIP	
Region : 12	Province : SULTAN KUDARAT	Municipality : TACURONG
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	: 286,642 m <sup>3</sup>
	: Embankment Volume	: 20,000 m <sup>3</sup>
	: Design Flood Discharge	: 15 m <sup>3</sup> /sec.
2. Irrigation	: Irrigation Area	: 175 ha
3. Mini-hydropower	: Installed Capacity	: 0 kW
4. Watershed Man.	: Watershed Protection Area	: 60 ha
5. Water Supply	: Design Supply Capacity	: 0 m <sup>3</sup> /day
6. Inland Fishery	: Annual Production	: 22 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.		
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 : 27.8 %
2. Feasibility Study	: 0	
3. Detailed Design	: 0	Priority Rating:
4. Construction	: 3,528	Group : A
Dam	: 3,528	Implementation Schedule:
Irrigation	: 3,883	Review : -
Mini-Hydropower	: 0	F/S : Completed
Water Supply	: 0	D/D : Completed
Watershed Protection	: 1,461	Construction: Jul. 1995; 6 months
5. Grand Total	: 8,872	

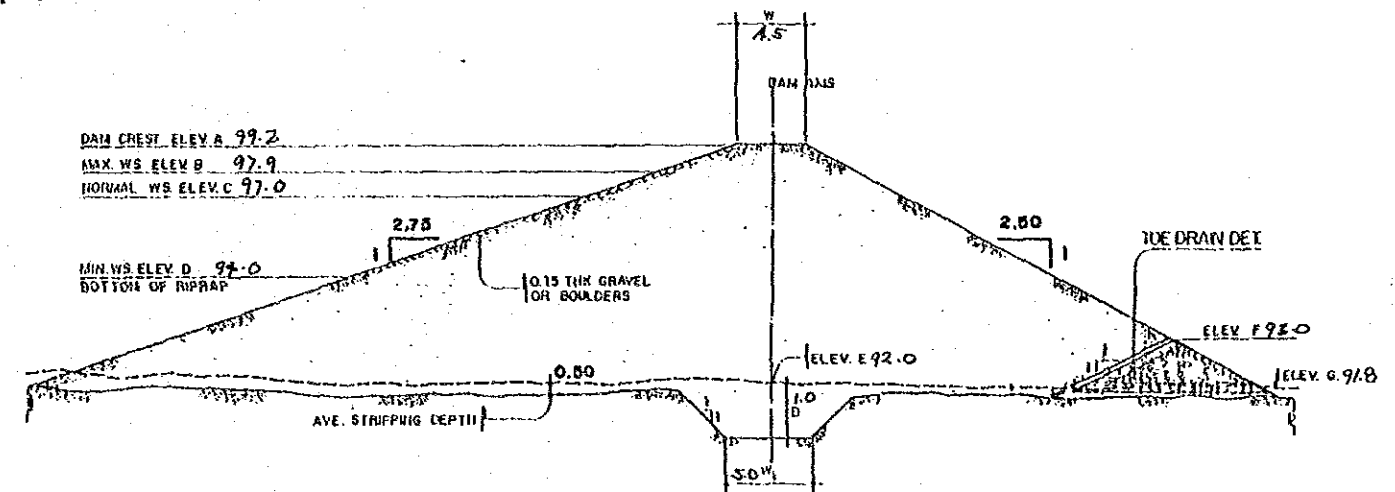


SWIM PROJECT PROFILE		File No. : 230
Regist. No. : Agency No. : BSWM-151	Name: MALAGAKIT SWIP	
Region: 12	Province: NORTH COTABATO	Municipality: PIGCAWAYAN
Present Status: 1. Pre-F/S( )    ② F/S(1983)    ③ D/D(1983)		
Purpose: Major : Irrigation Incidental : IF, FC, WM		
Project Feature:		
1. Dam	Dam Type : Dam Height : Effective Storage Capacity : Embankment Volume : Design Flood Discharge :	HOMOGENEOUS EARTHFILL 7 m 93,607 m <sup>3</sup> 9,740 m <sup>3</sup> 11 m <sup>3</sup> /sec.
2. Irrigation	Irrigation Area :	100 ha
3. Mini-hydropower	Installed Capacity :	0 kW
4. Watershed Man.	Watershed Protection Area :	54 ha
5. Water Supply	Design Supply Capacity :	0 m <sup>3</sup> /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. Center line of the spillway shall be shifted to left 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 : 35.8 %
2. Feasibility Study	: 0	Priority Rating:
3. Detailed Design	: 0	Group : B
4. Construction	:	Implementation Schedule:
Dam	: 2,530	Review :
Irrigation	: 2,219	F/S : Completed
Mini-Hydropower	: 0	D/D : Completed
Water Supply	: 0	Construction: Jul. 1987; 6 months
Watershed Protection	: 1,313	
5. Grand Total	: 6,062	

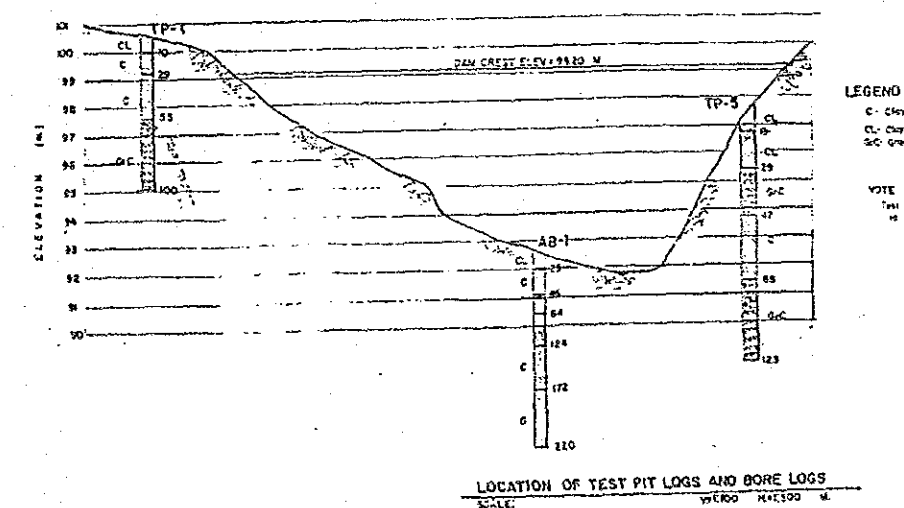
Layout:



Typical Dam Section:



Profile of Dam Axis:



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





