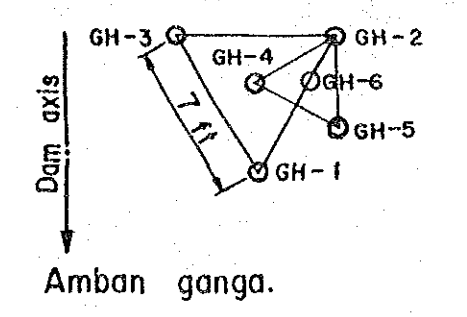


Arrangement of the grout and check hole.



Hole No.	Depth (m)	Description
GH - 3.	38.00	1st. grout hole
GH - 1.	27.45	2nd. "
GH - 2.	27.45	3rd. "
GH - 4.	27.45	Check and 4th grout hole

Hole No	Depth(m)	Description
GH - 5	27.70	5th. grout
GH - 6	27.45	Check hole

All holes are 3 inches in diameter, and vertical.

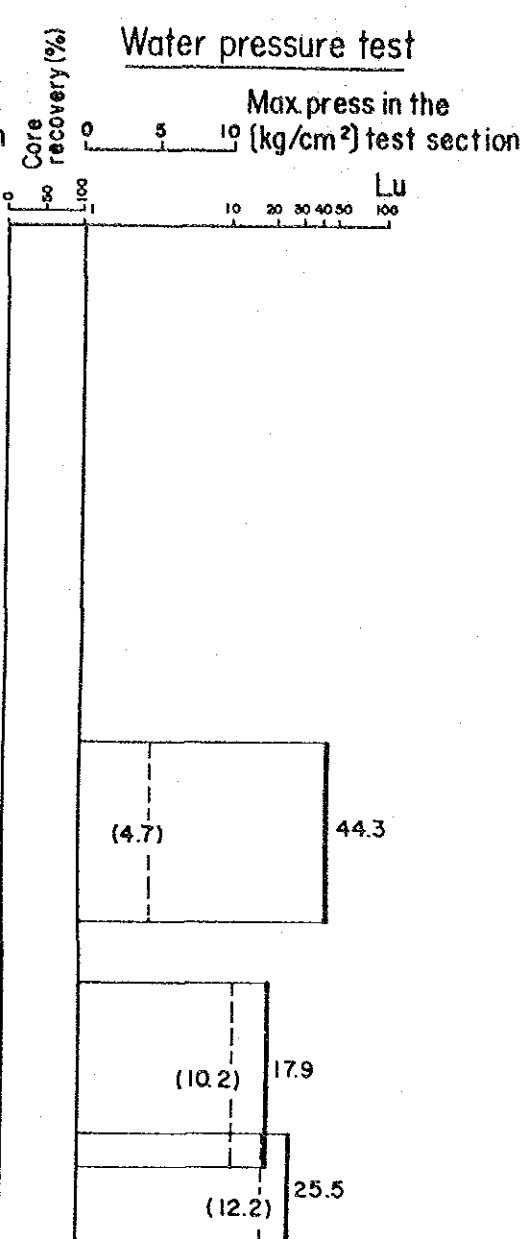
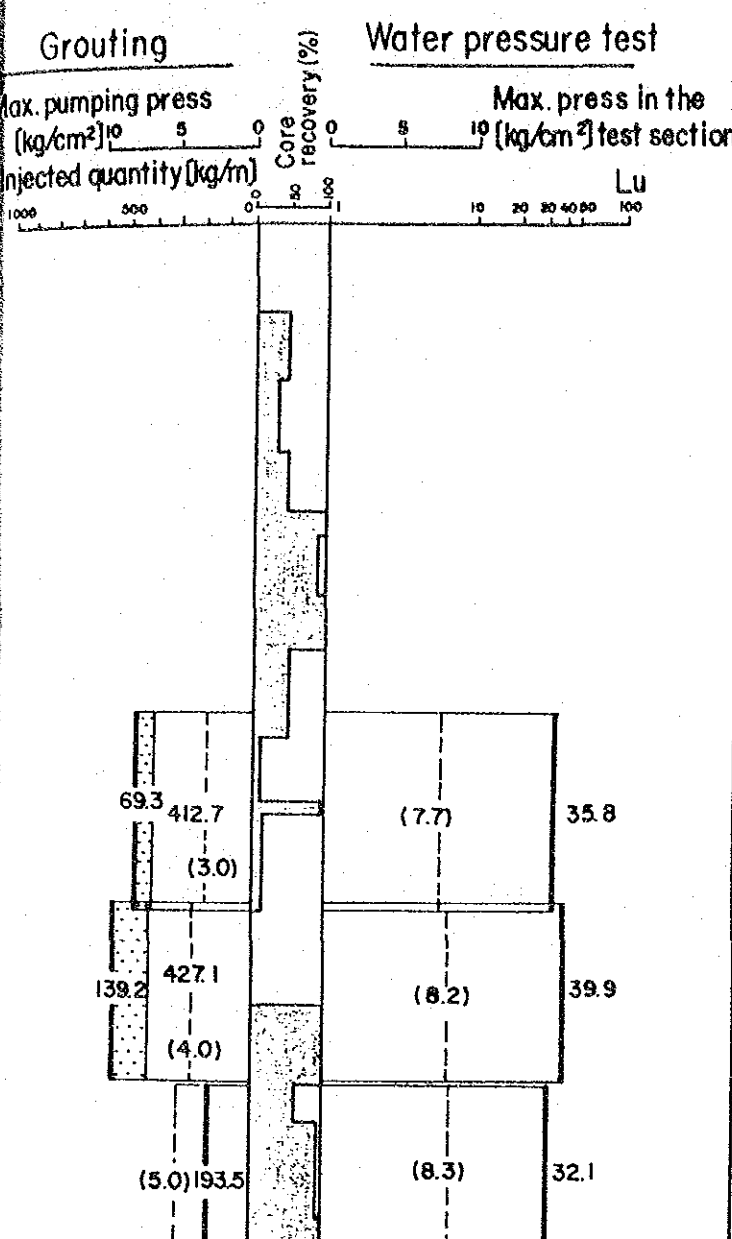
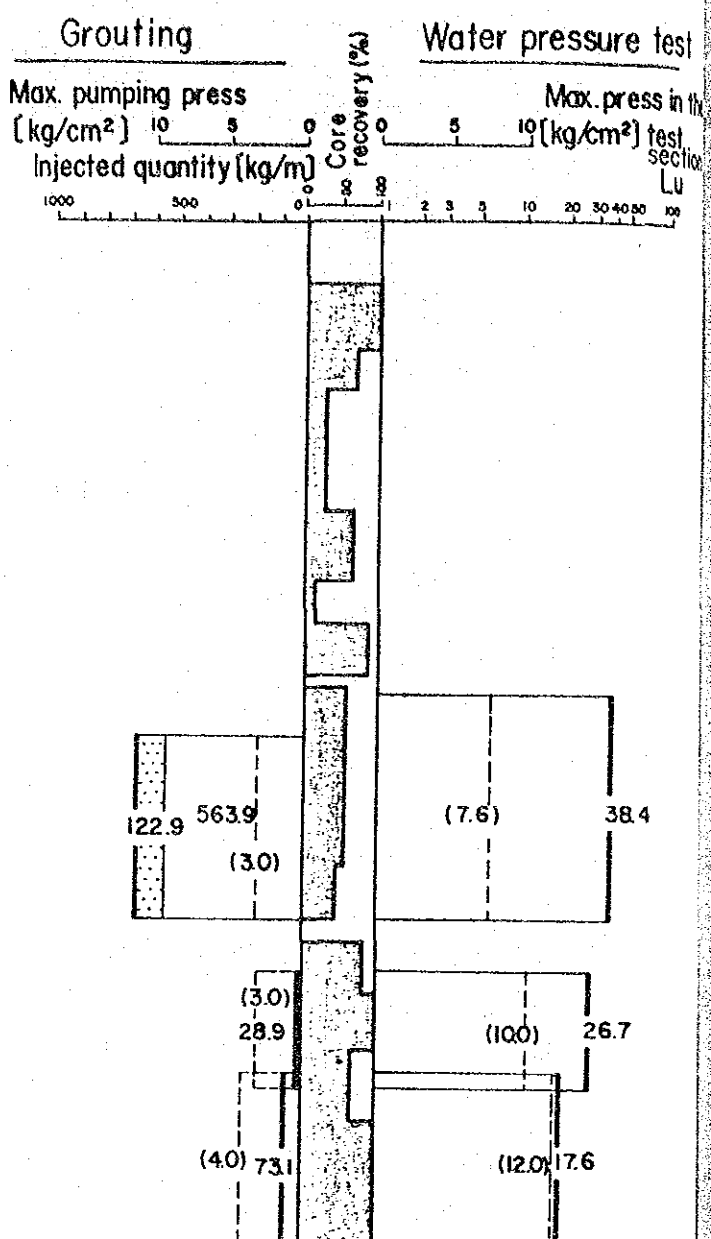
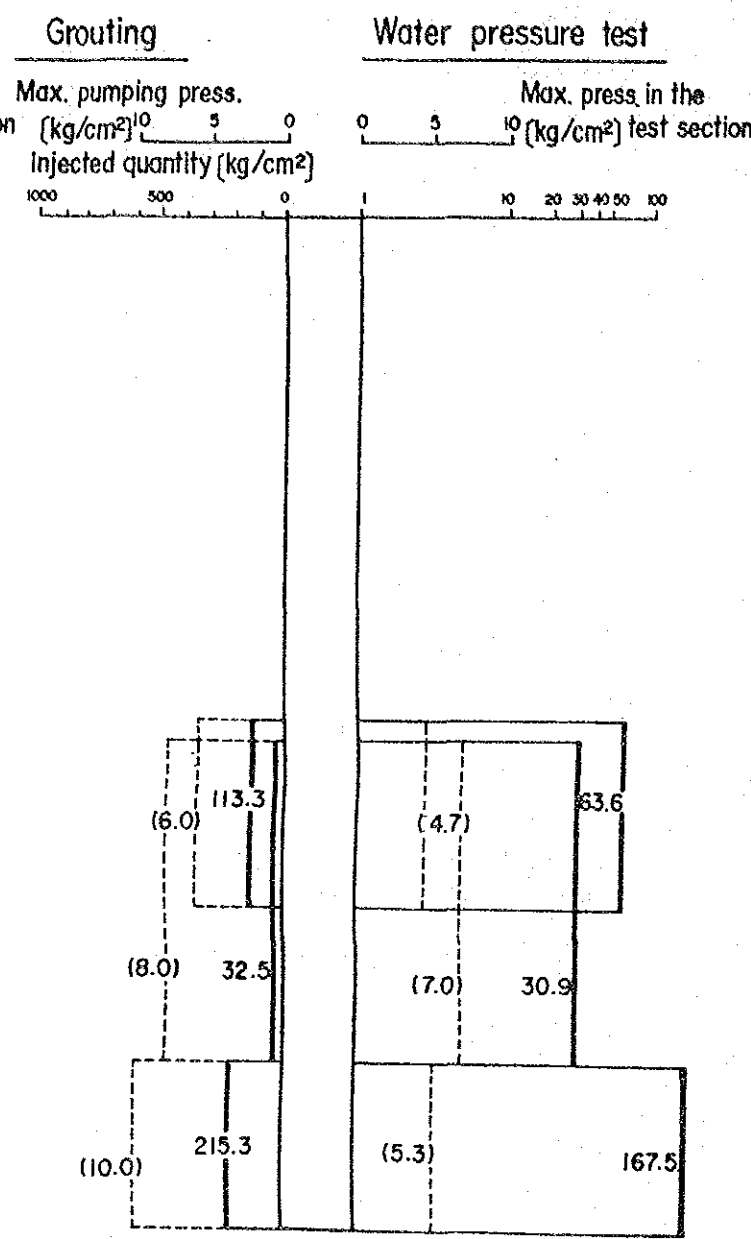
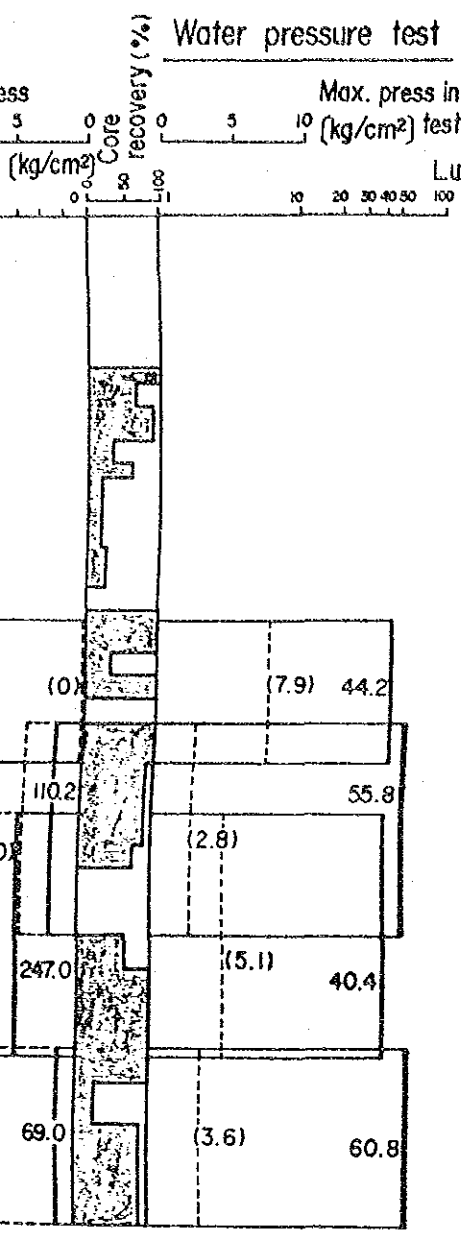
GH - 1

GH - 2

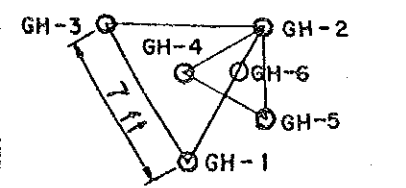
GH - 4

GH - 5

GH - 6



Arrangement of the grout and check hole.



mban ganga.

Hole No.	Depth (m)	Description	Hole No.	Depth (m)	Description
GH - 3.	38.00	1st. grout hole	GH - 5	27.70	5th. grout hole
GH - 1.	27.45	2nd. "	GH - 6	27.45	Check hole
GH - 2.	27.45	3rd. "			
GH - 4.	27.45	Check and 4th grout hole			

All holes are 3 inches in diameter, and vertical.

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

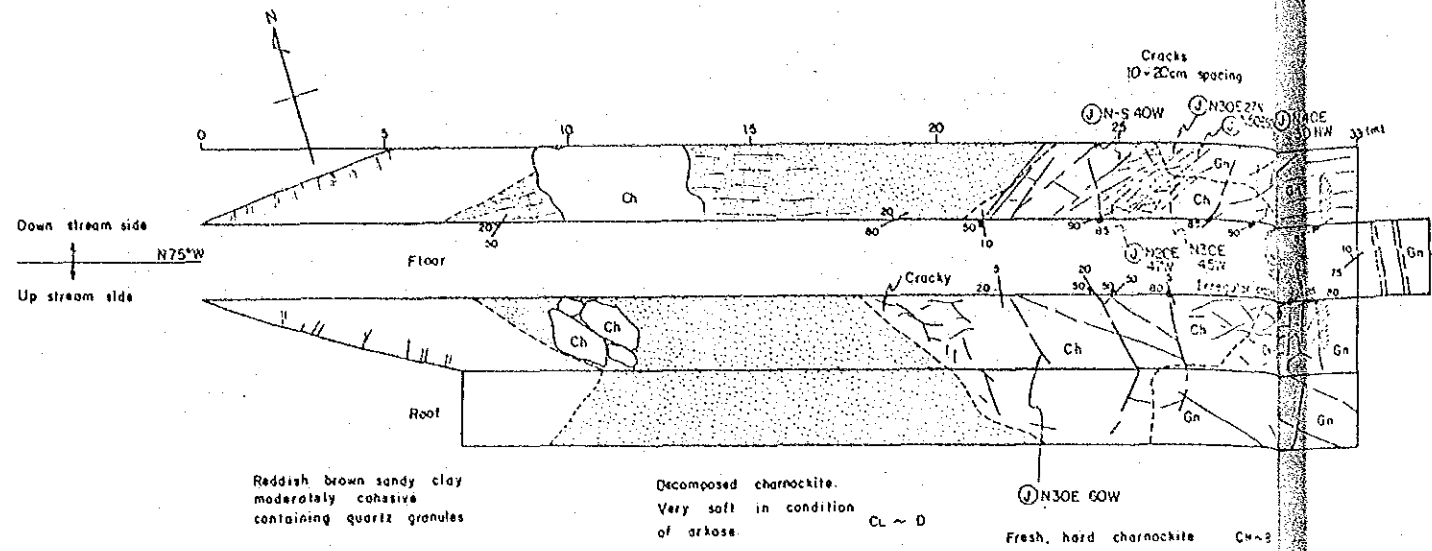
TITLE OF DRAWINGS

RESULT OF GROUTING TEST

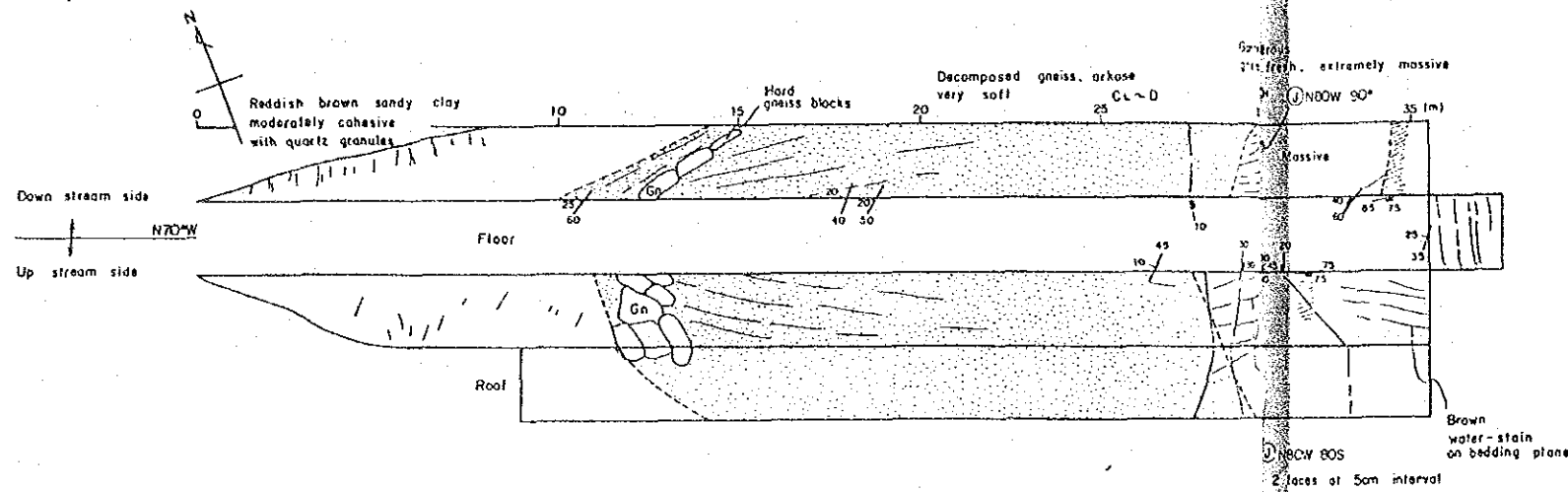
JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
TOKYO JAPAN

MAIN DAMSITE (RIGHT BANK)

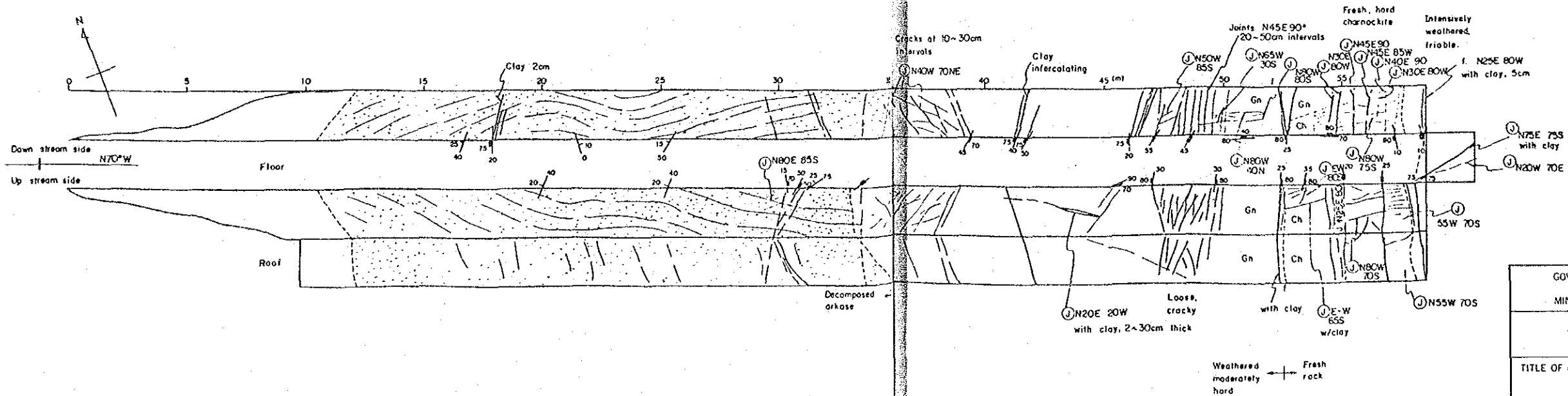
ADIT NO. 1
Length = 33.00 m
EL (floor) = 194.84 m



ADIT NO. 2
Length = 35.50 m
EL (floor) = 168.91 m

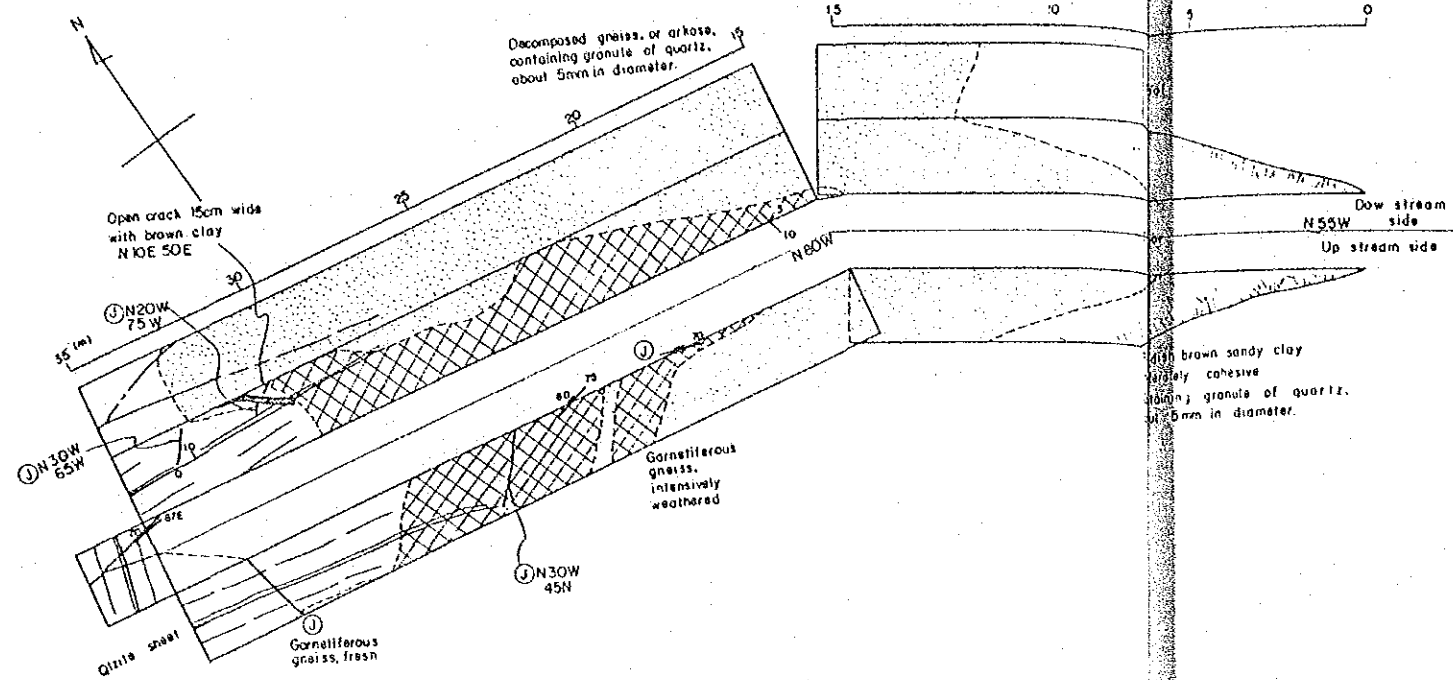


ADIT NO. 3
Length = 58.50 m
EL (floor) = 150.45 m

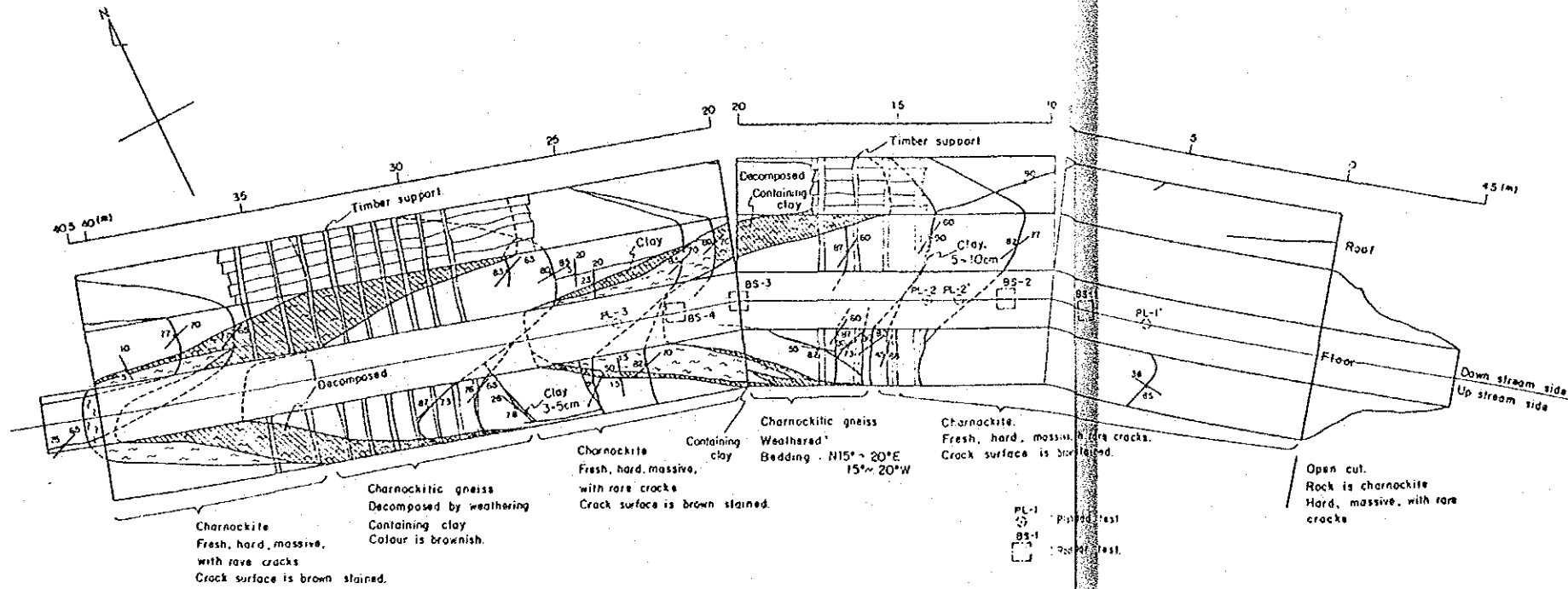


GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS GEOLOGICAL RECORD OF TEST ADIT. NO.1 NO.2 NO.3	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

MAIN DAMSITE (LEFT BANK)

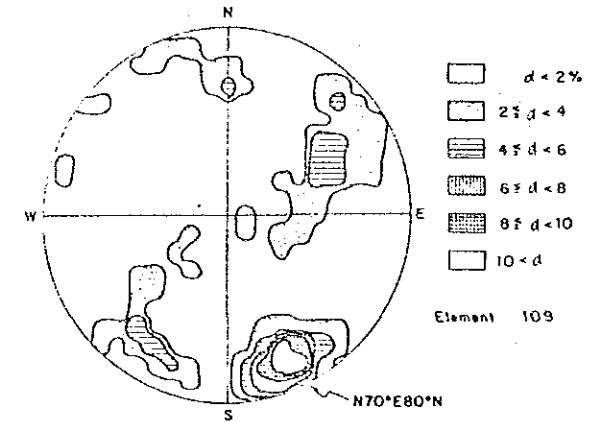


ADIT NO.4
 Length = 35.00 m
 EL (floor) = 168.43 m



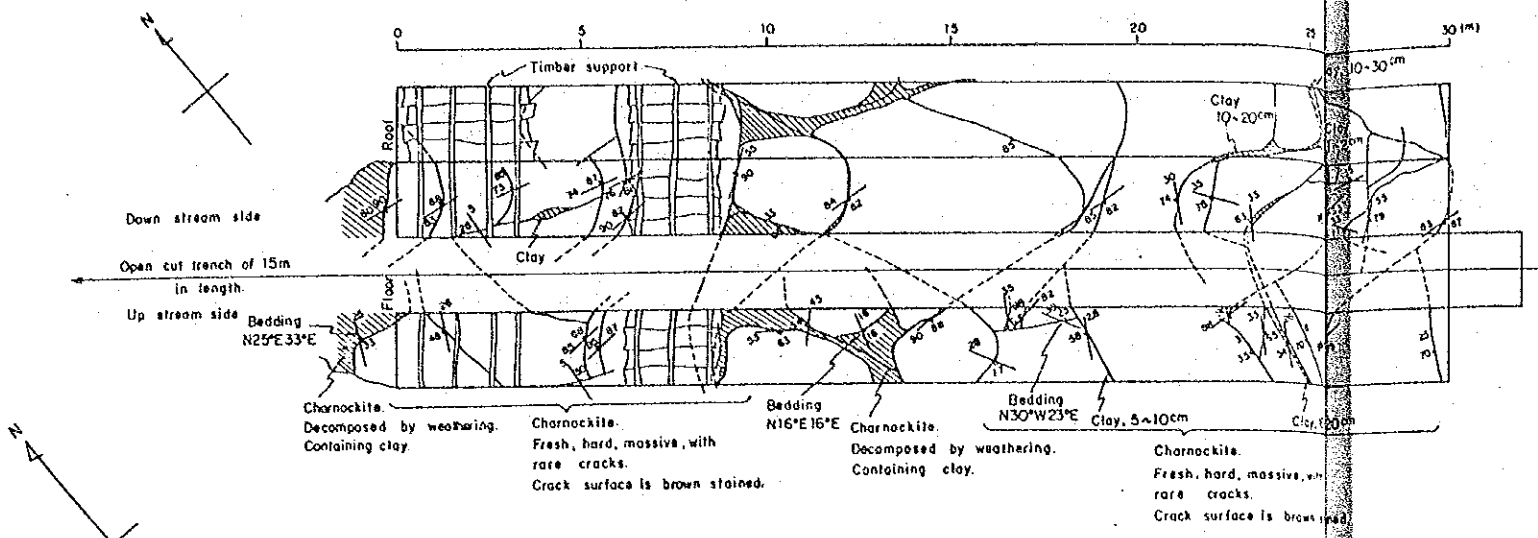
ADIT NO.5
 Length = 45.00 m
 EL (floor) = 144.93 m

Stereographic projections for the frequency of the joint directions.

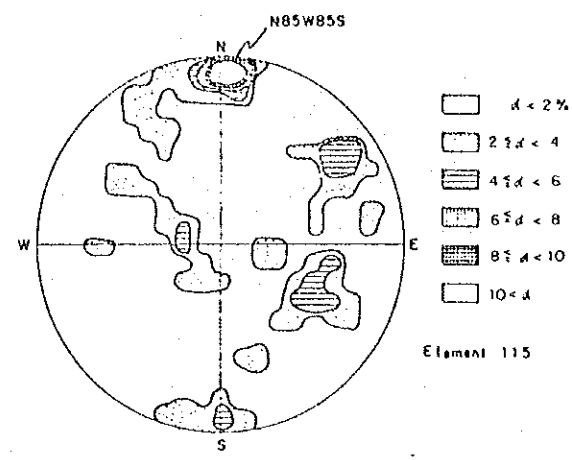


GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELE DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS GEOLOGICAL RECORD OF TEST ADIT NO.4 NO.5	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	OWG. No.

FIRST SUB - DAMSITE

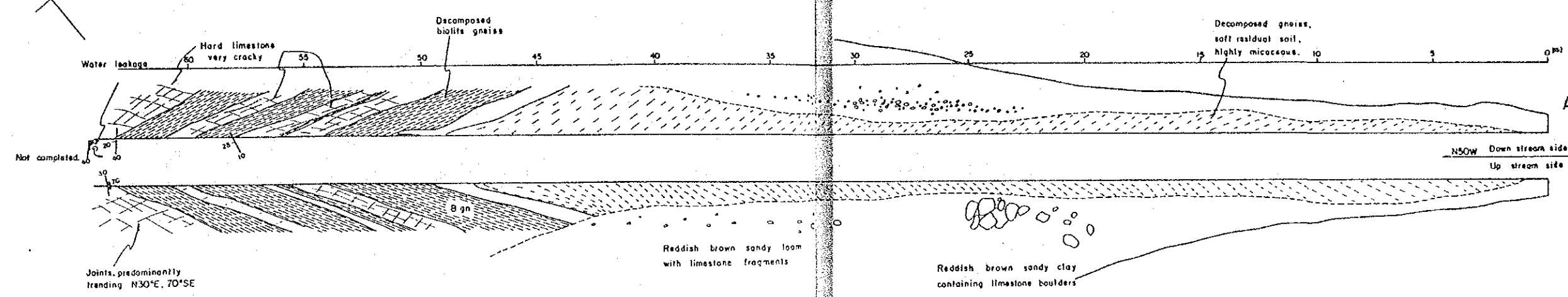


Stereographic projections for the frequency of the joint directions.



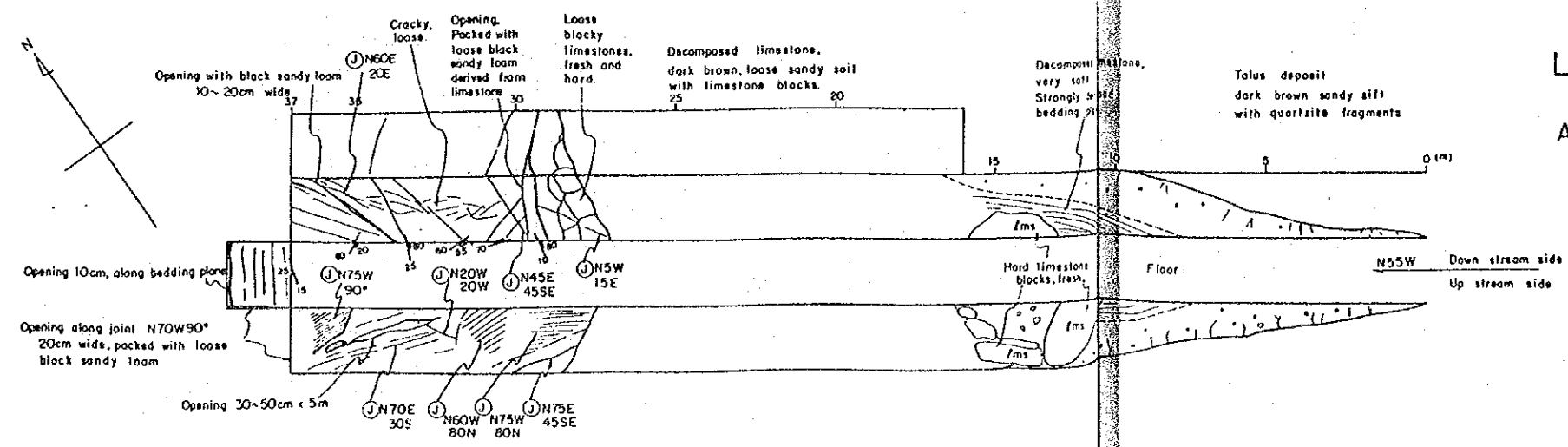
RIGHT BANK

ADIT NO.6
Length = 45.00m
EL(floor) = 165.07m



LEFT BANK

ADIT NO.7
Length =
EL(floor) =



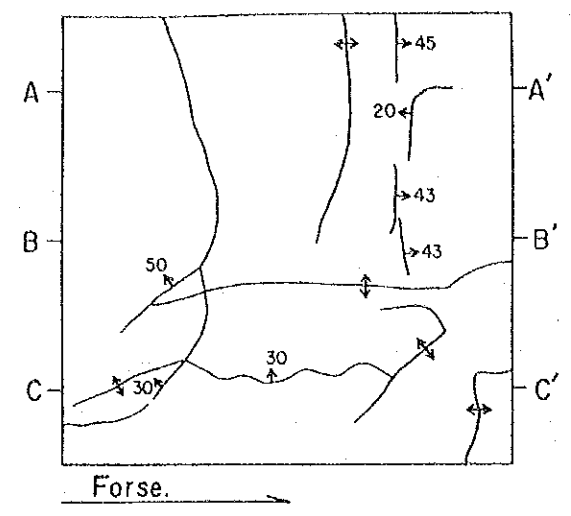
LEFT BANK

ADIT NO.8
Length = 37.00m
EL(floor) = 175.74m

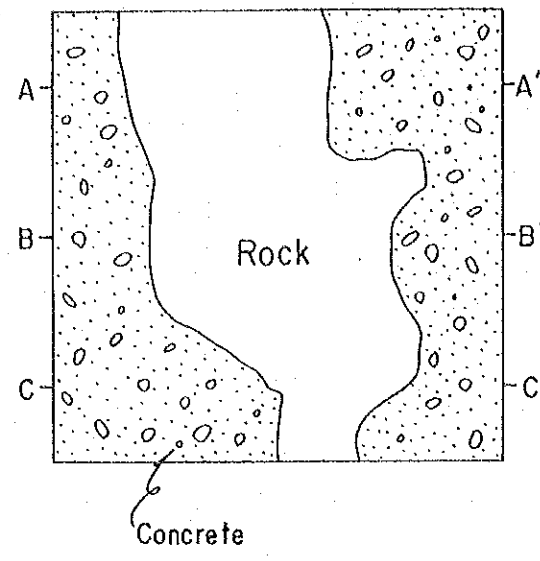
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS GEOLOGICAL RECORD OF TEST ADIT. NO.6 NO.7 NO.8	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

BS-1.

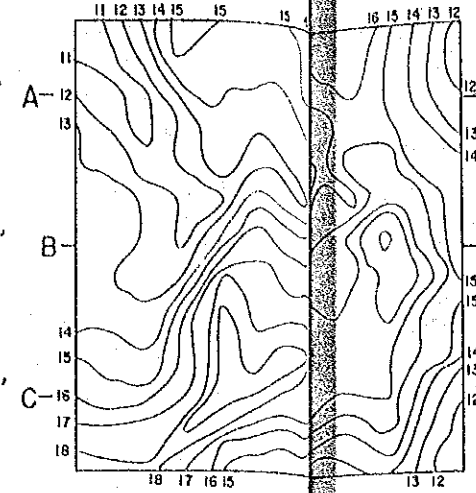
Geological sketch before testing



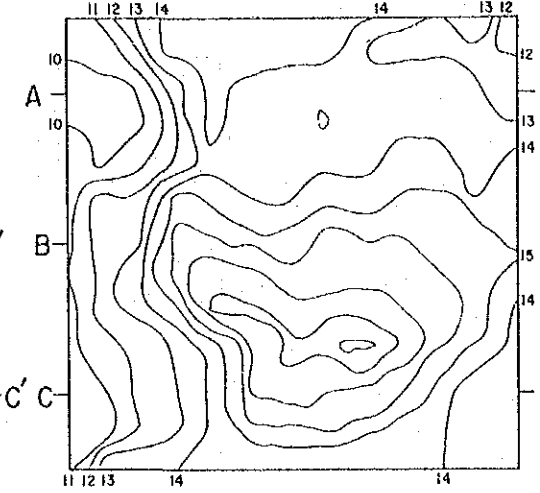
Geological sketch after testing



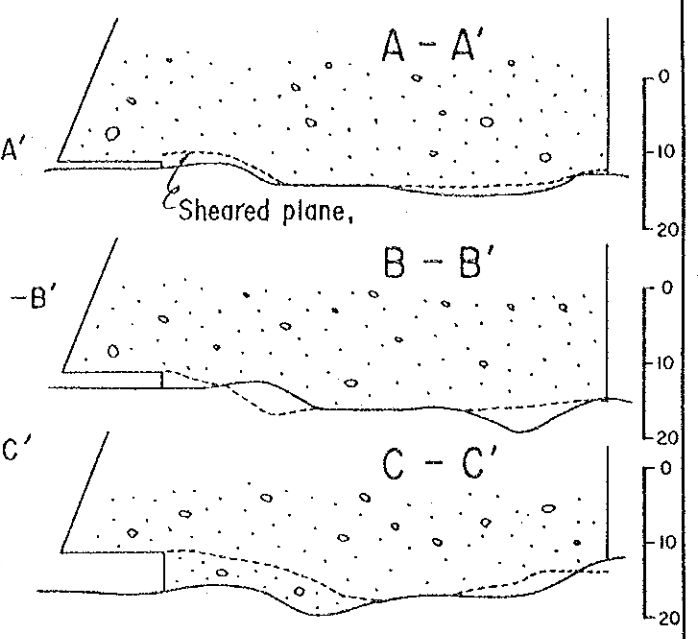
Contour map before testing



Contour map after testing

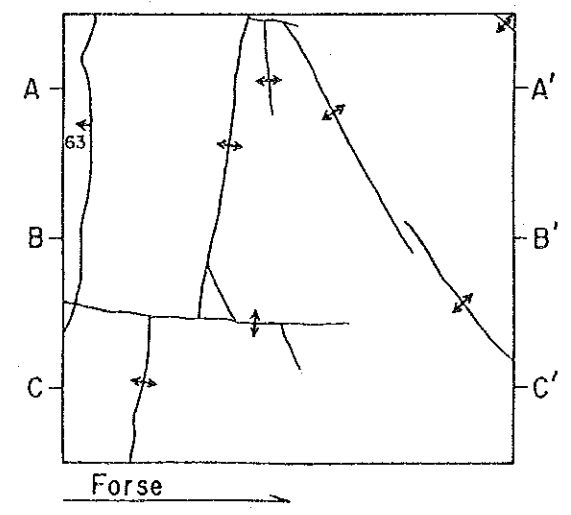


Sections

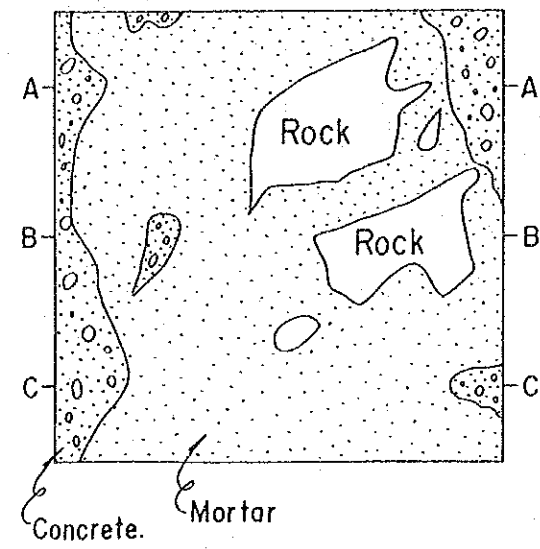


BS-2

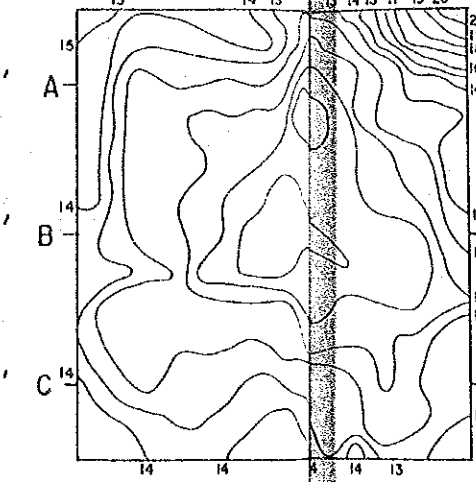
Geological sketch before testing



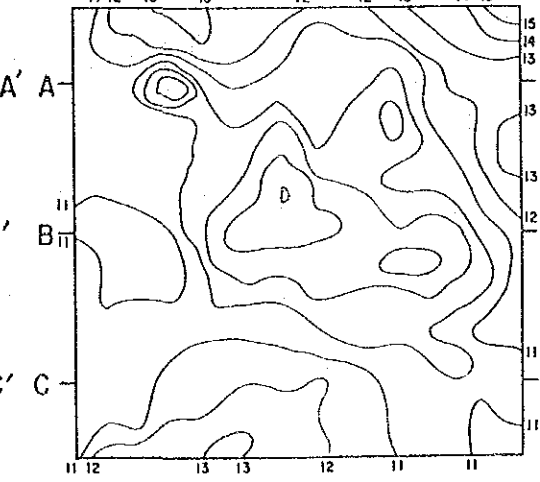
Geological sketch after testing



Contour map before testing

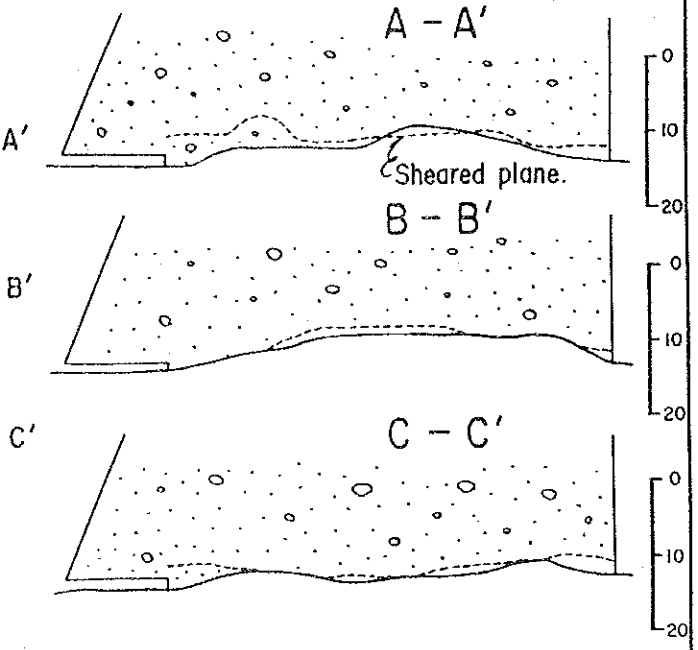


Contour map after testing



Contour interval : 1 cm.

Sections



Rock type : Charnockite.

Note : Fresh, solid and massive, with tight cracks.

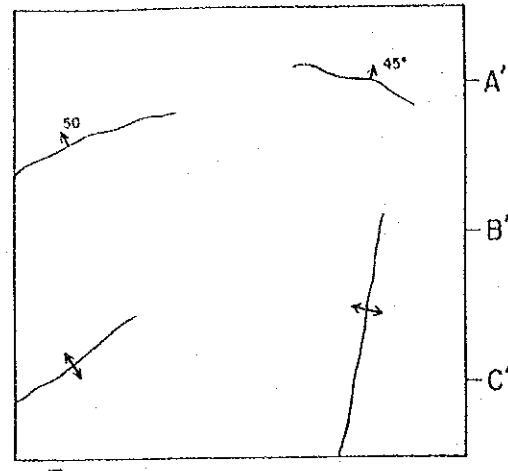
Scale.



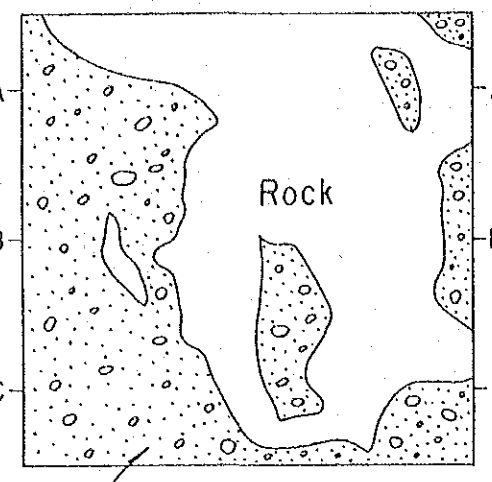
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT
TITLE OF DRAWINGS ROCK SHEAR TEST GEOLOGICAL CONDITION OF TEST PLANES. BS-1. BS-2.
JAPAN INTERNATIONAL COOPERATION AGENCY DWG. No. TOKYO JAPAN

BS - 3.

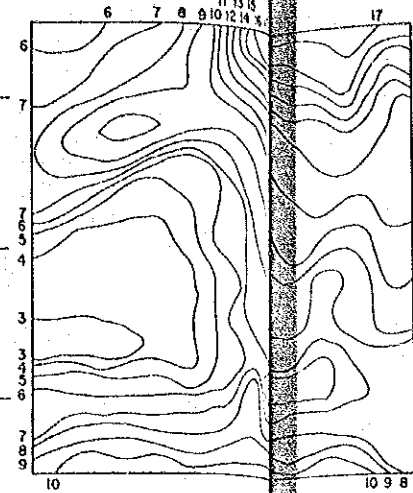
Geological sketch before testing



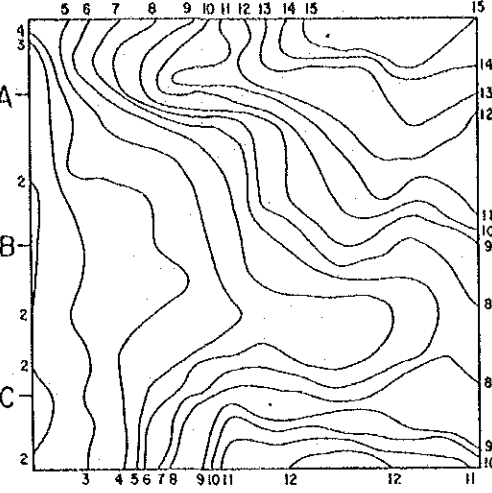
Geological sketch after testing



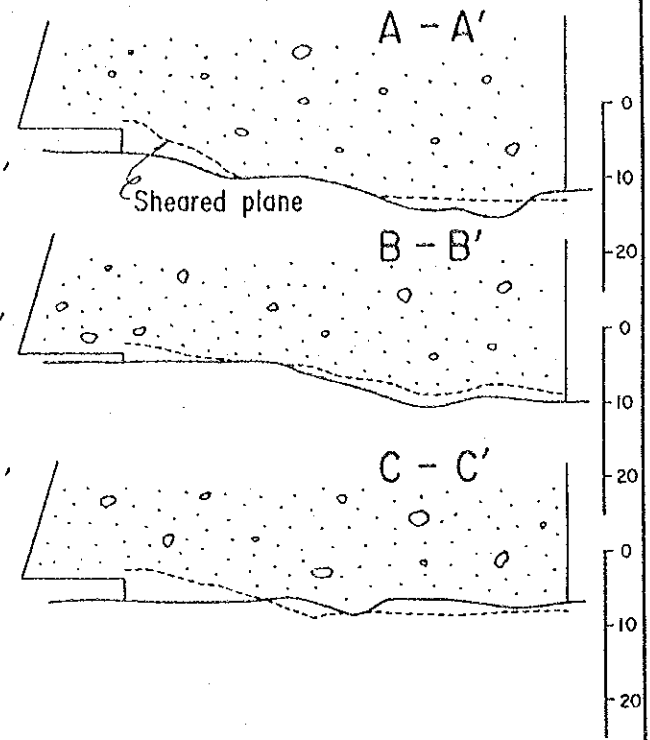
Contour map before testing



Contour map after testing

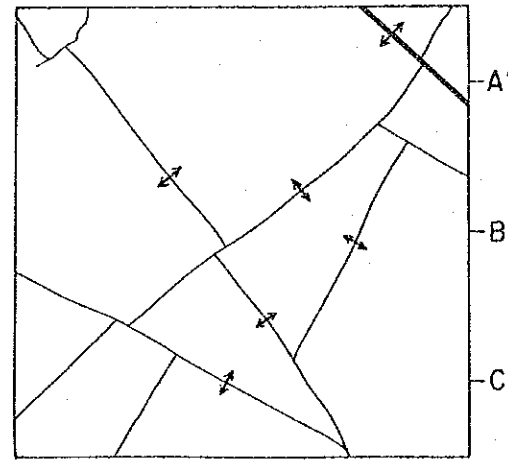


Sections

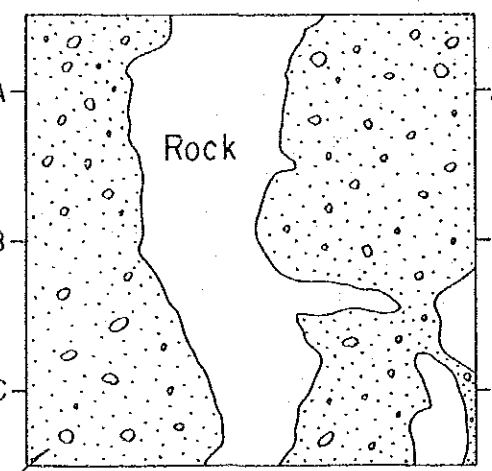


BS - 4.

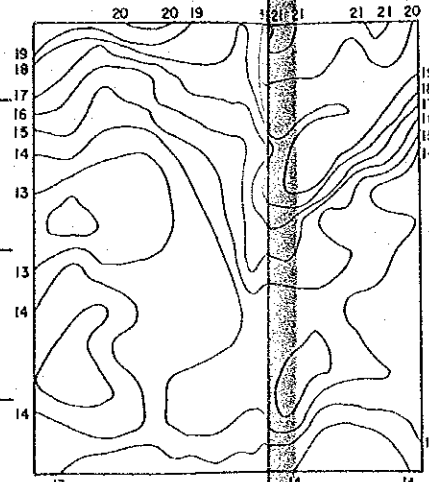
Geological sketch before testing



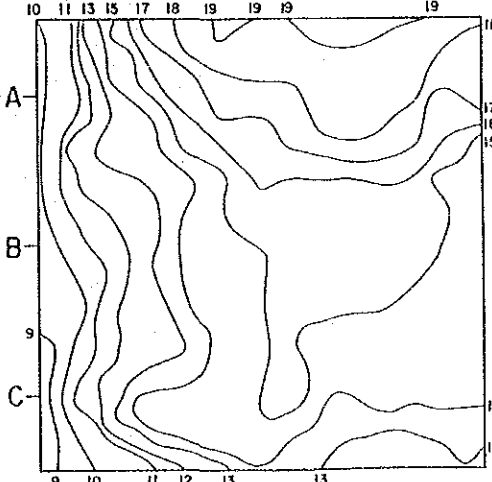
Geological sketch after testing



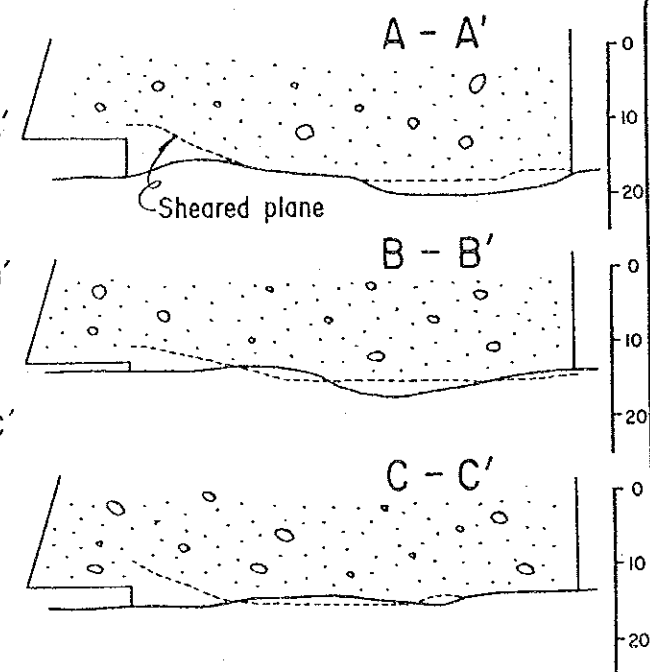
Contour map before testing



Contour map after testing



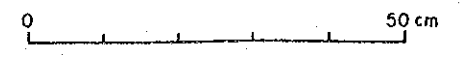
Sections



Contour interval : 1 cm

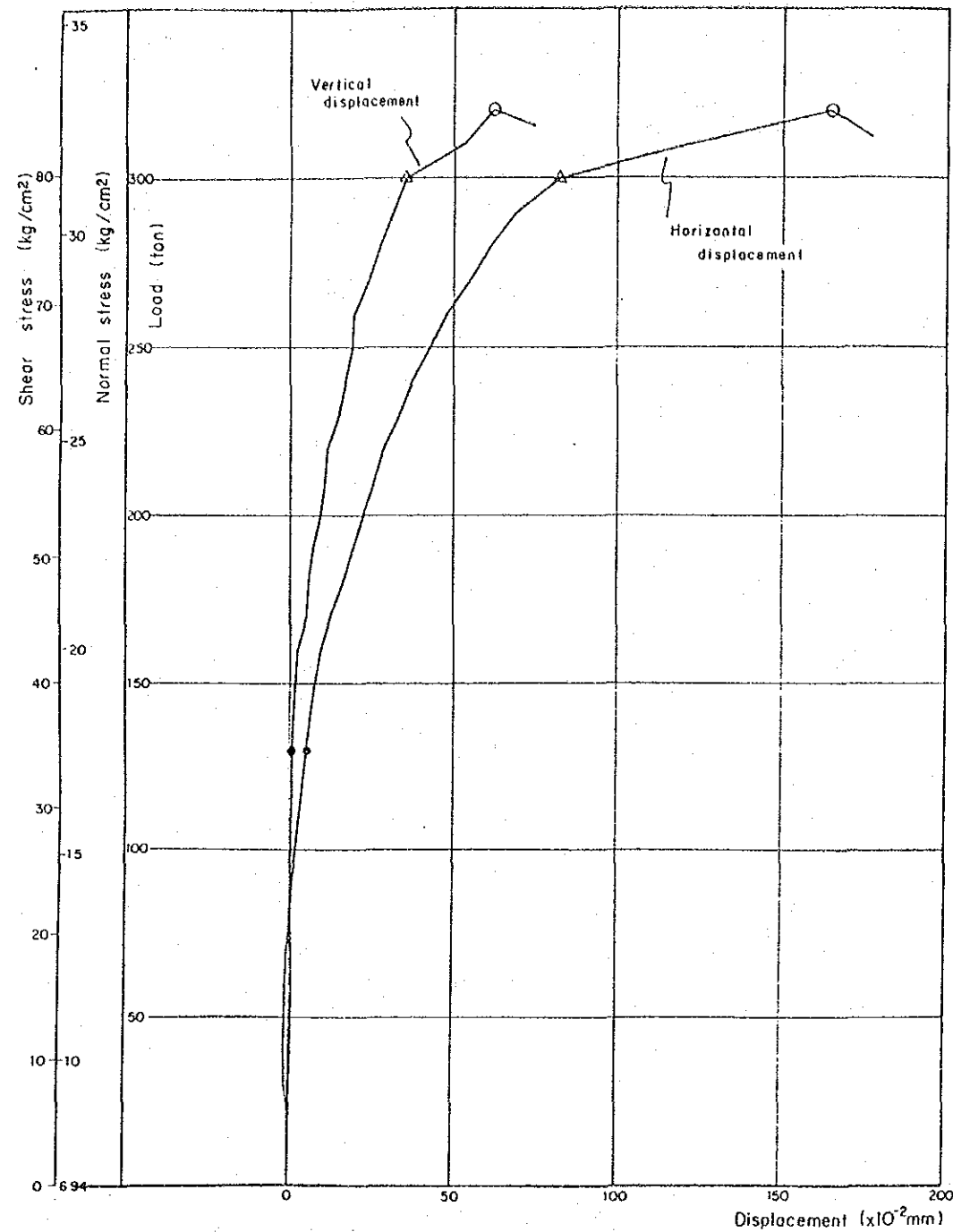
Rock type : Charnockite
 Note : Fresh, solid and massive,
 with tight cracks

Scale.

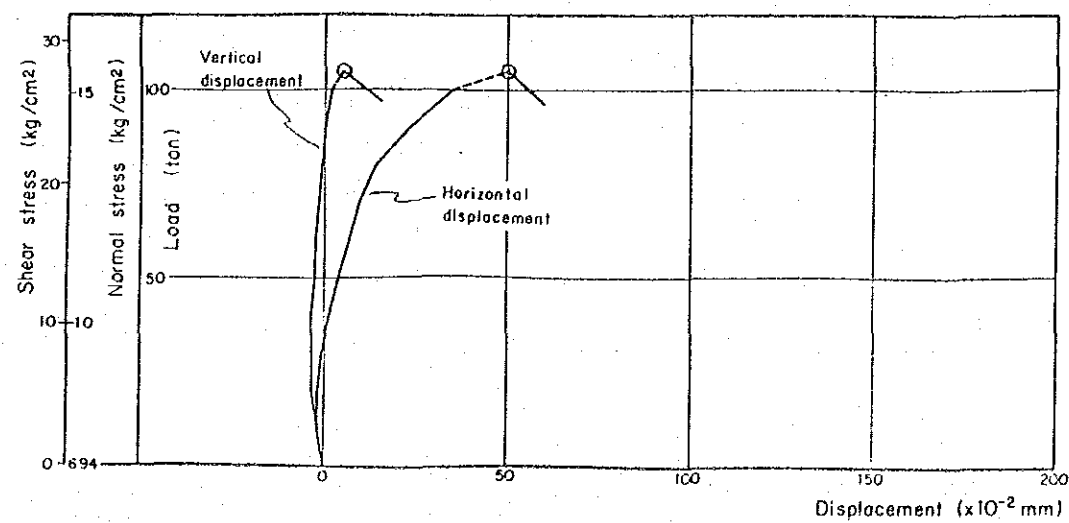


GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS ROCK SHEAR TEST GEOLOGICAL CONDITION OF TEST PLANES. BS-3. BS-4.	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

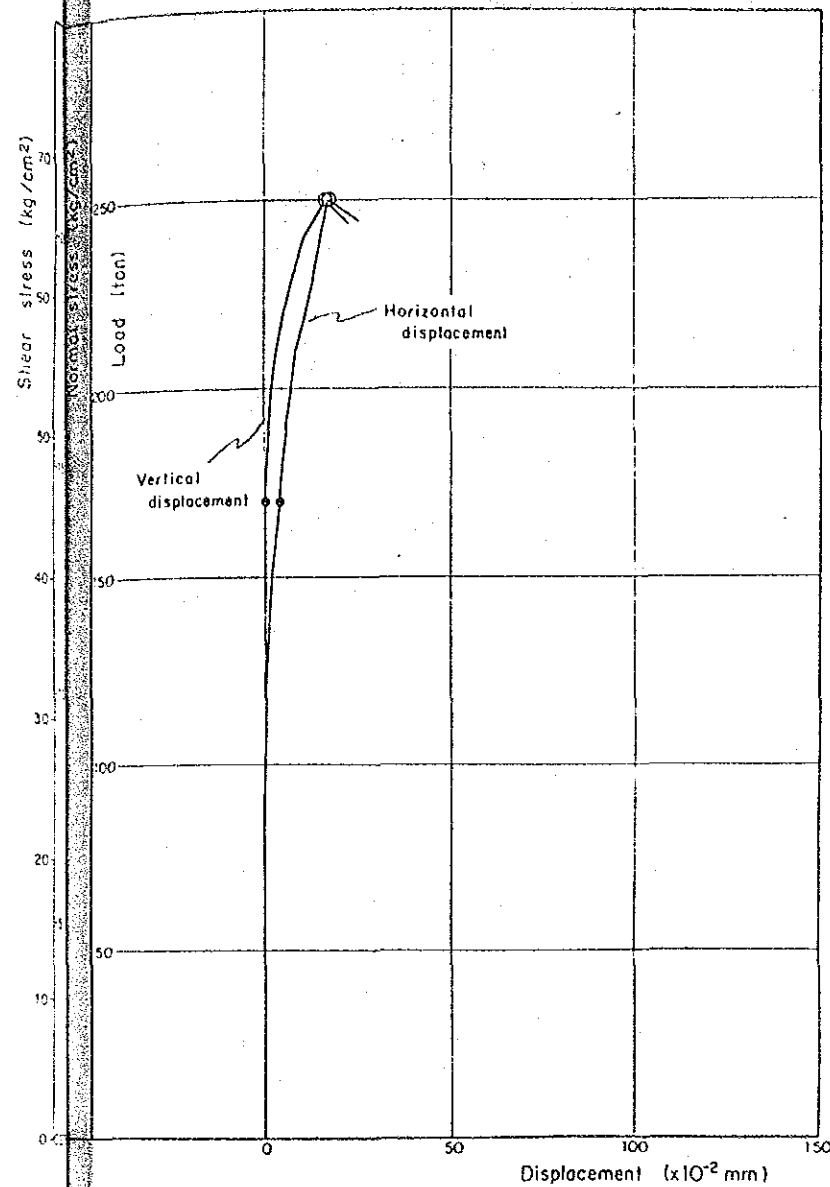
BS-1 1st LOADING N=25ton $\theta=17^\circ$



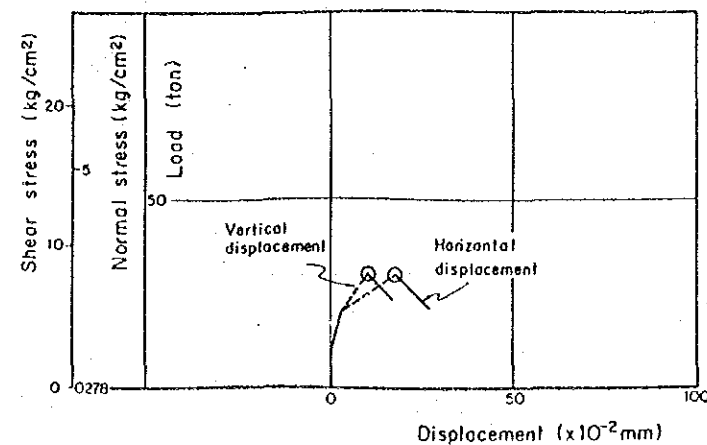
BS-1 2nd LOADING N=25ton $\theta=17^\circ$



BS-2 1st LOADING N=1ton $\theta=17^\circ$



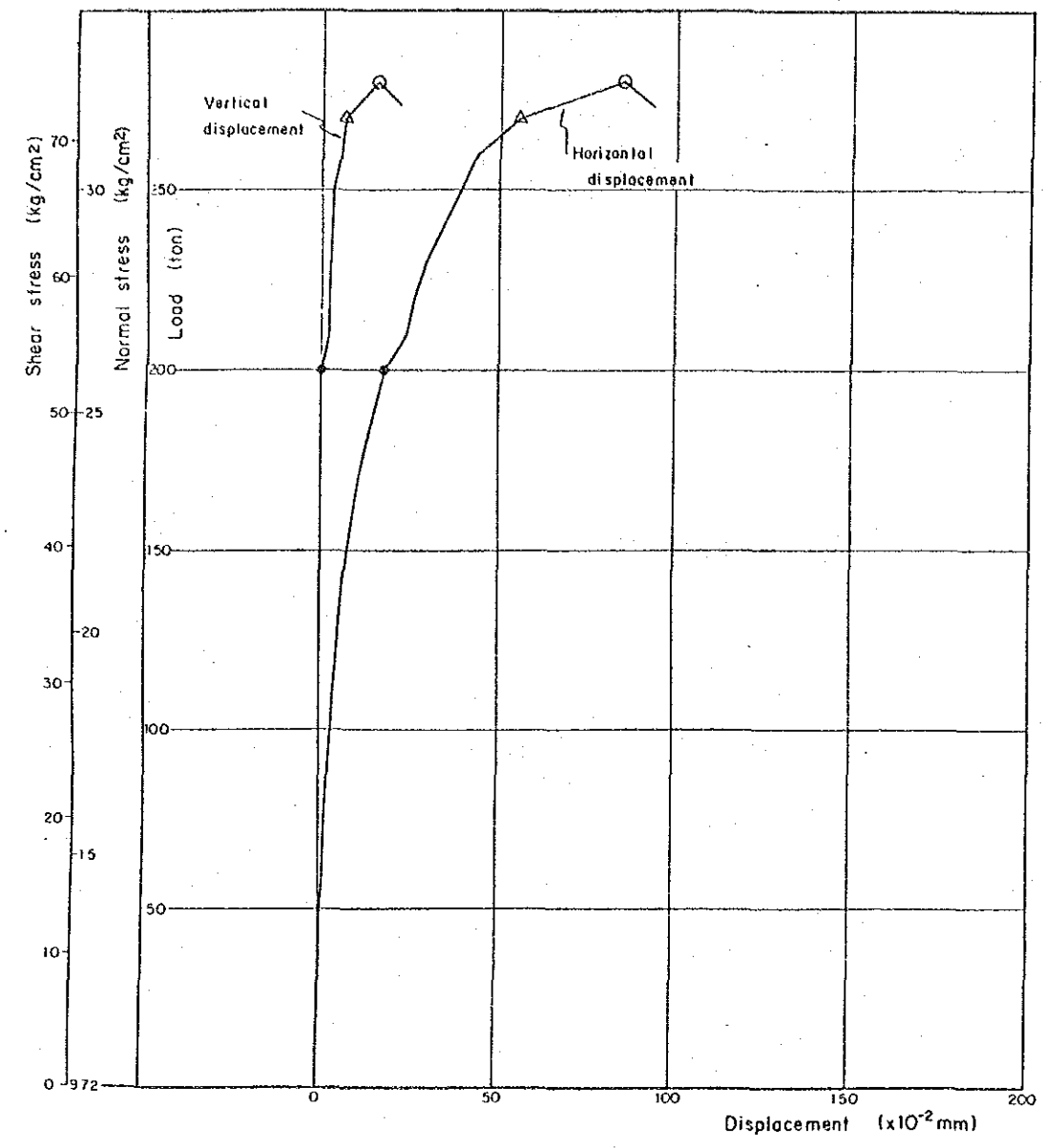
BS-2 2nd LOADING N=1ton $\theta=17^\circ$



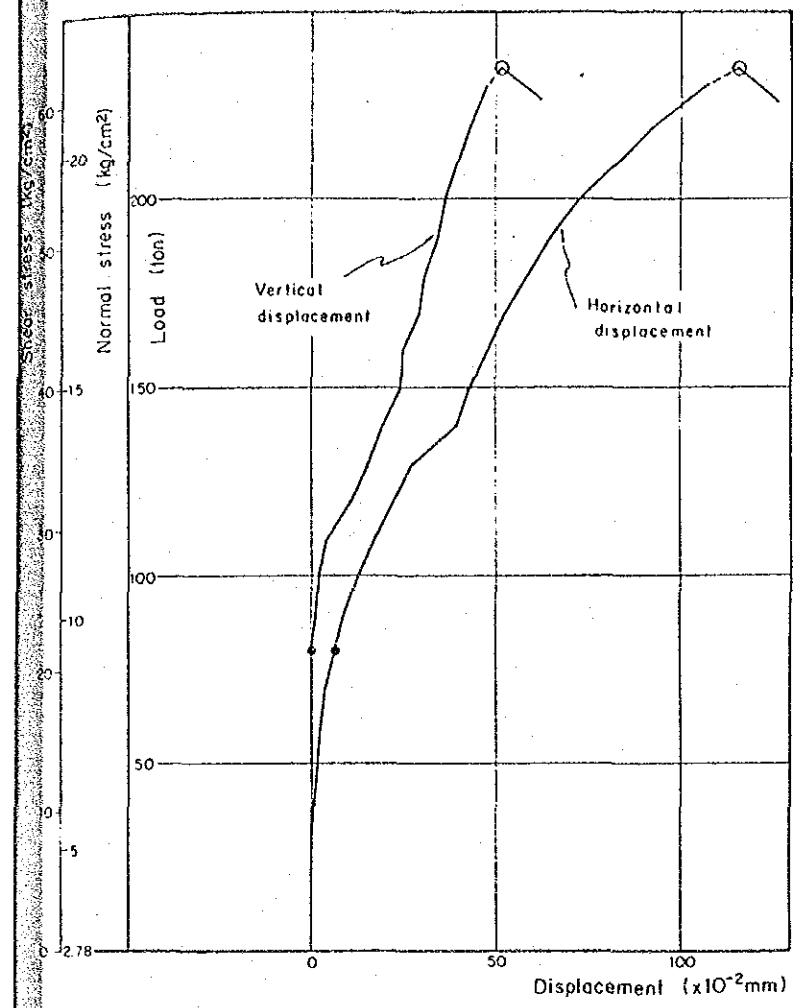
- Failed point
- △ Principal yield point
- Upheaval point

GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS ROCK SHEAR TEST LOAD DISPLACEMENT CURVES BS-1 BS-2	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

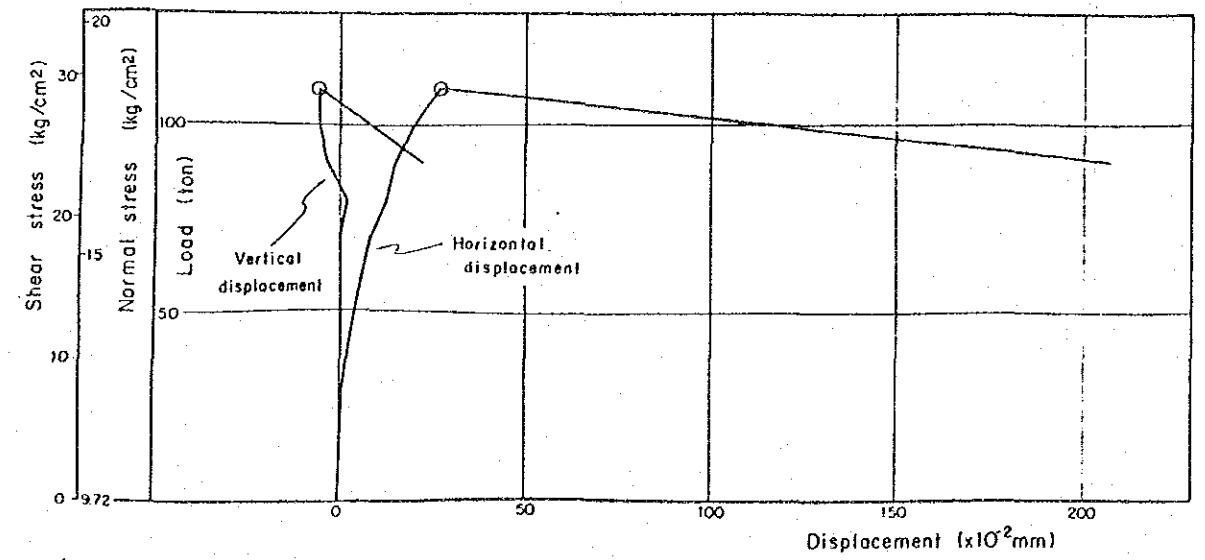
BS-3 1st LOADING N=35 ton $\theta=17^\circ$



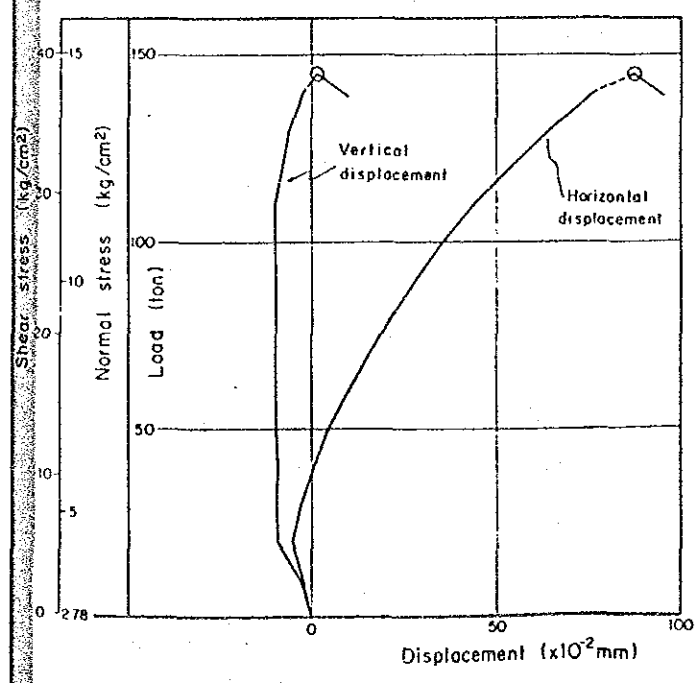
BS-4 1st LOADING N=10 ton $\theta=17^\circ$



BS-3 2nd LOADING N=35 ton $\theta=17^\circ$



BS-4 2nd LOADING N=10 ton $\theta=17^\circ$



- Failed point
- △ Principal yield point
- Upheaval point

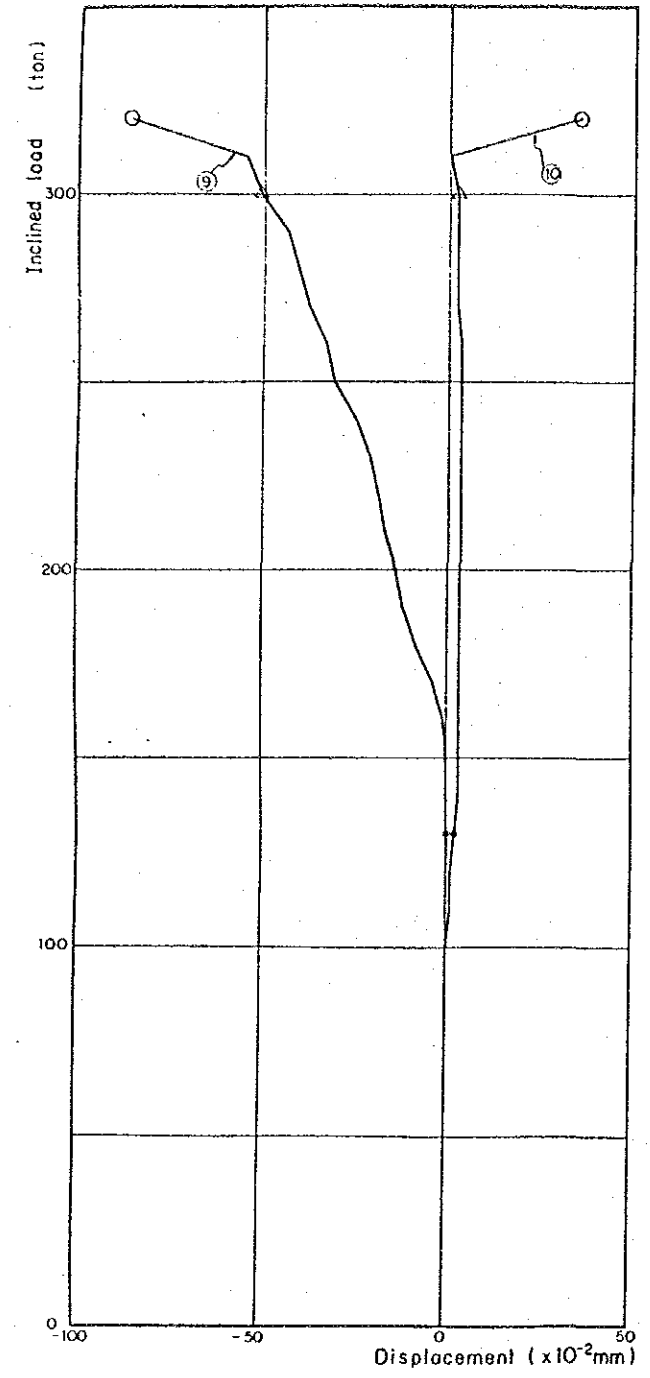
GOVERNMENT OF DEMOCRATIC SOCIALIST
 REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
 THE MORAGAHAKANDA AGRICULTURAL
 DEVELOPMENT PROJECT

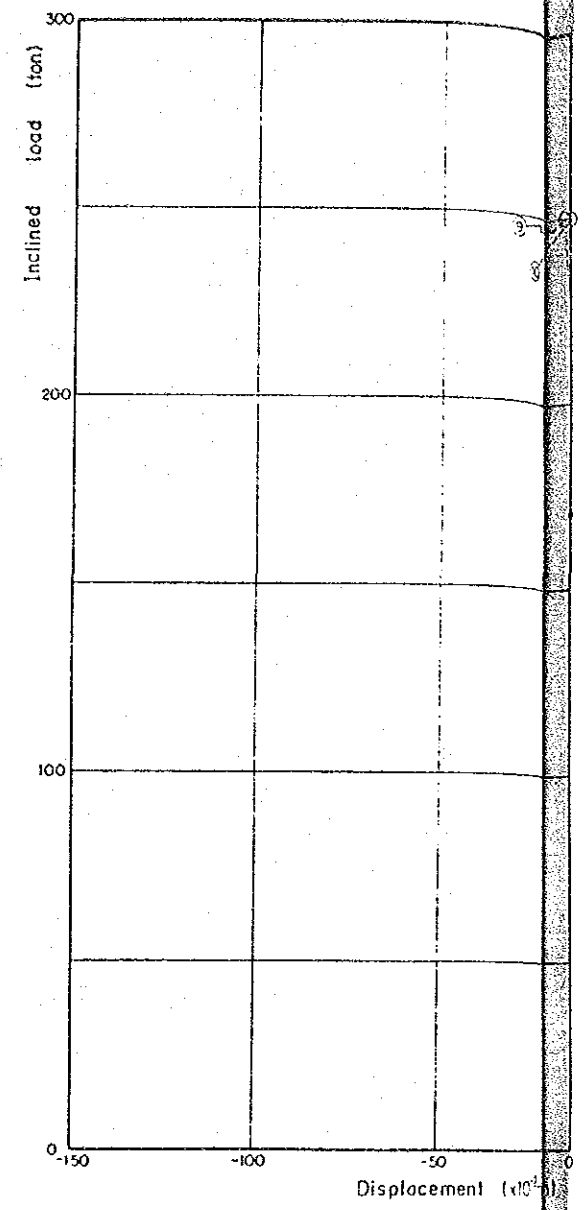
TITLE OF DRAWINGS
 ROCK SHEAR TEST
 LOAD DISPLACEMENT CURVES
 BS-3 BS-4

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
 TOKYO JAPAN

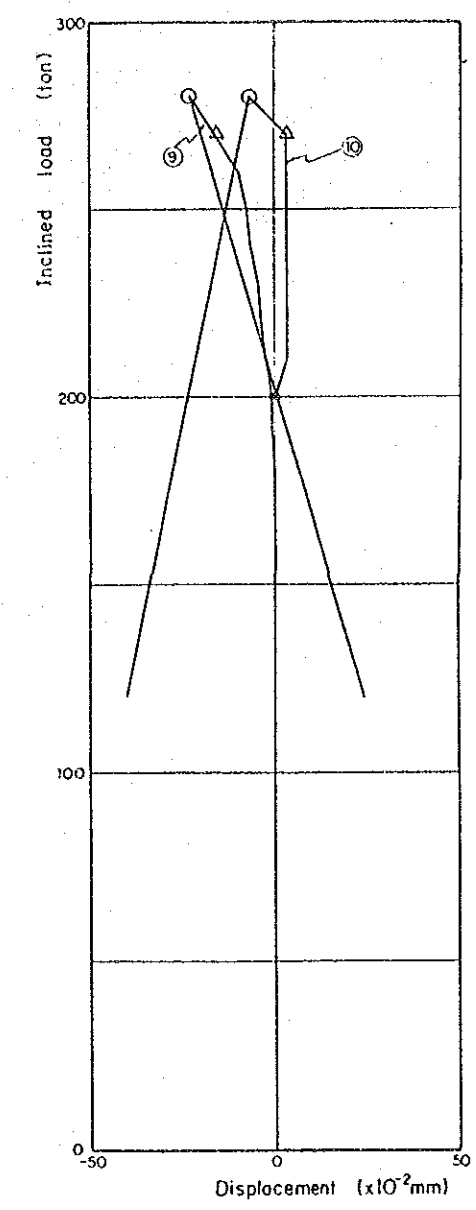
BS-1



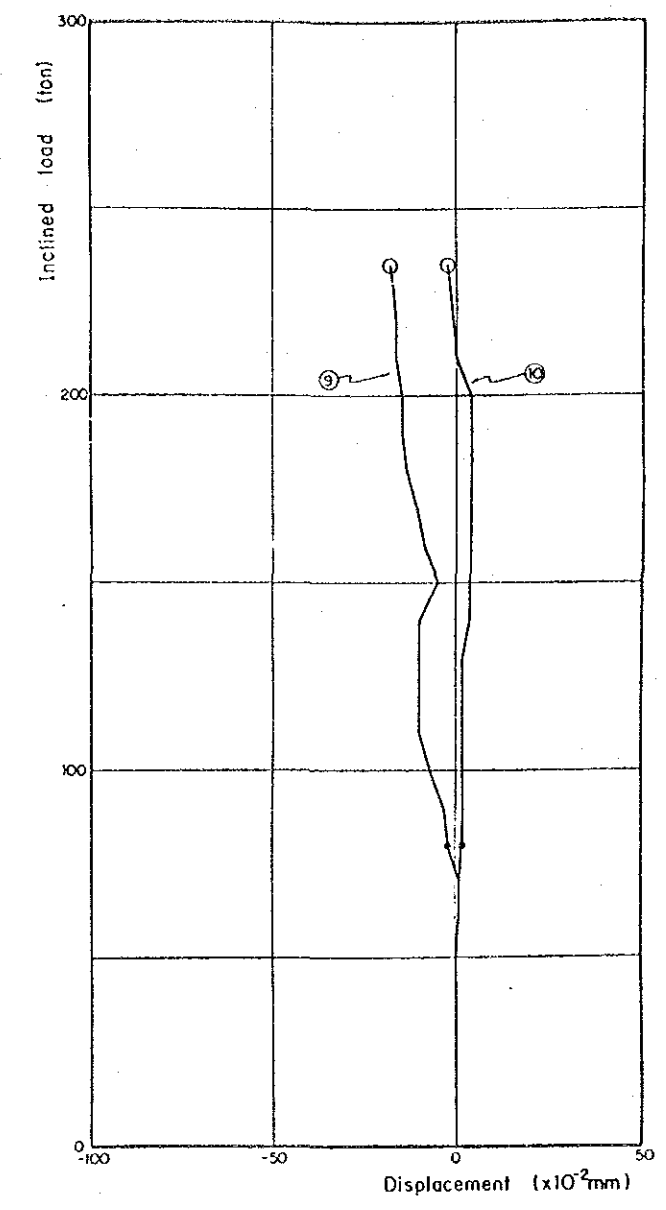
BS-2



BS-3

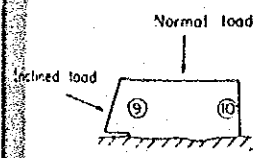


BS-4

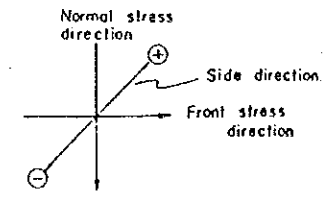


- Failed point
- △ Principal yield point
- Upheaval point

Index to gauge location

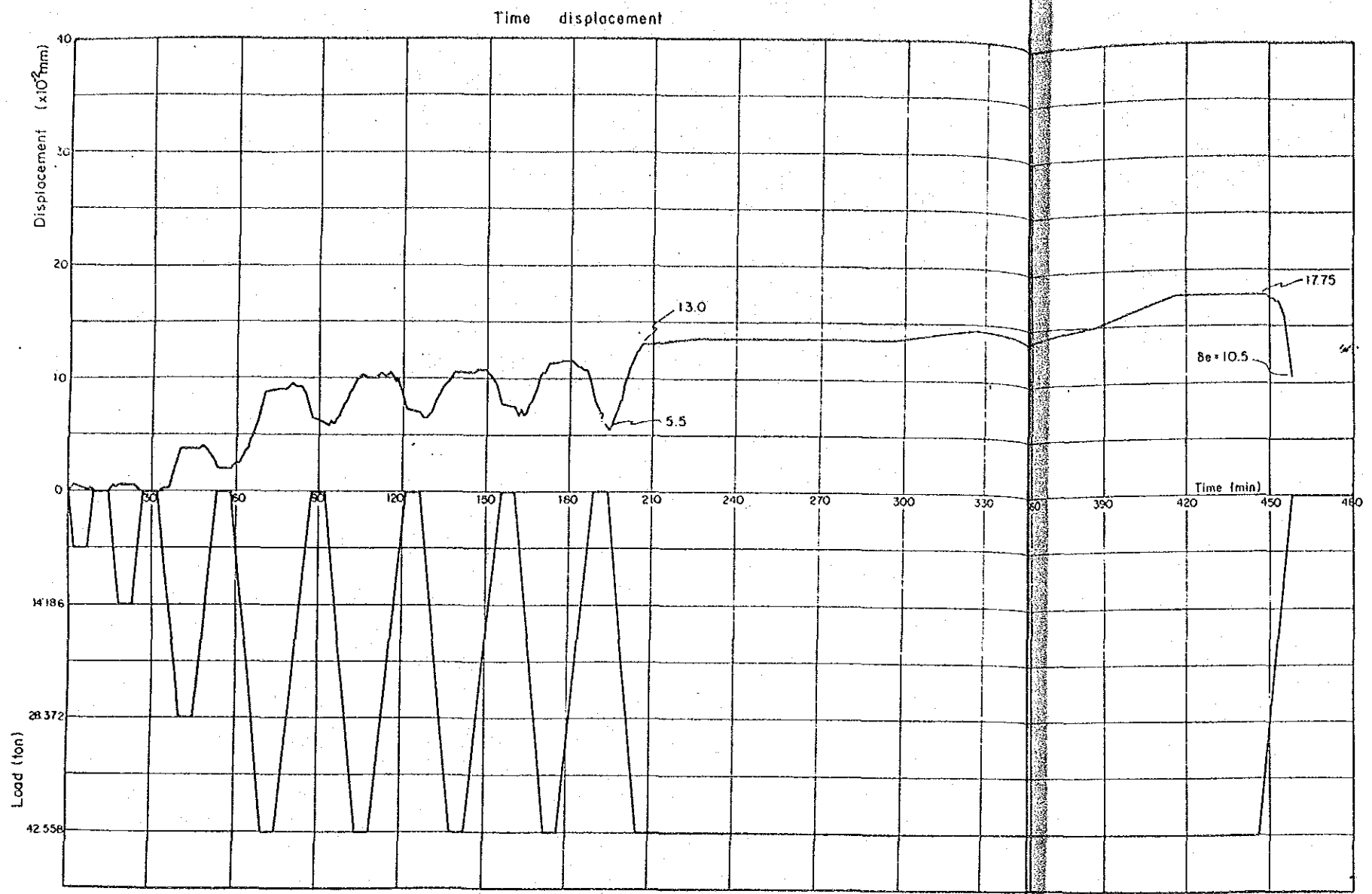


Index to direction

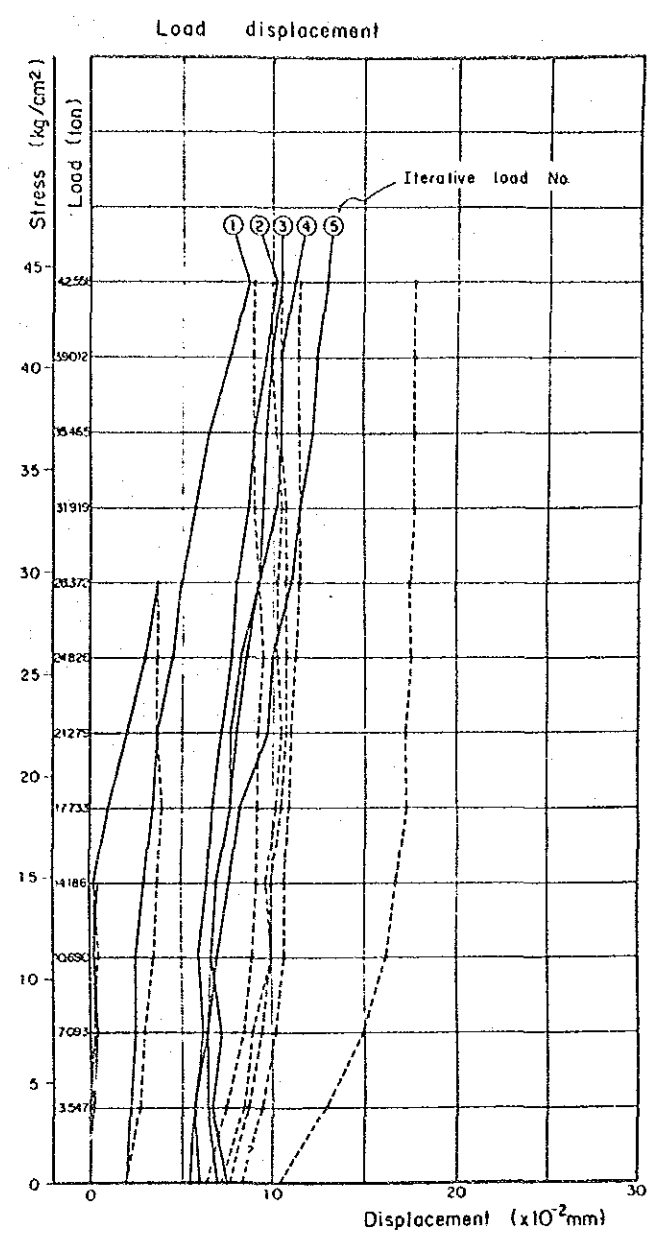


GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS ROCK SHEAR TEST DISPLACEMENT OF SIDE GAUGE	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

PL-2 $\phi = 35\text{cm}$ (962.1cm²)

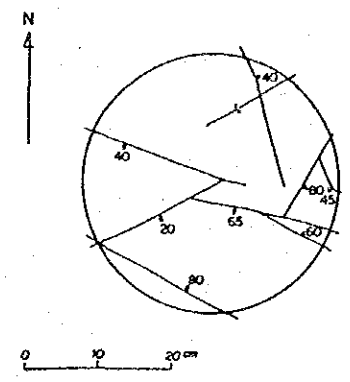


Load pattern



Load displacement

Geological sketch of loading plane



Rock type : Charnockite.
 Note : Fresh, solid and massive, with light cracks.

Test result

Iterative loading No on 60 ton	Tangential elasticity (E _t) kg/cm ²	Secantial elasticity (E _s) kg/cm ²	Modulus of deformation (D) kg/cm ²
1	103,760	172,934	
2	172,934	274,660	
3	311,281	333,515	
4	194,550	311,281	
5	194,550	155,641	
Average	195,415	249,605	86,074

GOVERNMENT OF DEMOCRATIC SOCIALIST
 REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
 THE MORAGAHAKANDA AGRICULTURAL
 DEVELOPMENT PROJECT

TITLE OF DRAWINGS

PLATE LOAD TEST PL-2

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
 TOKYO JAPAN

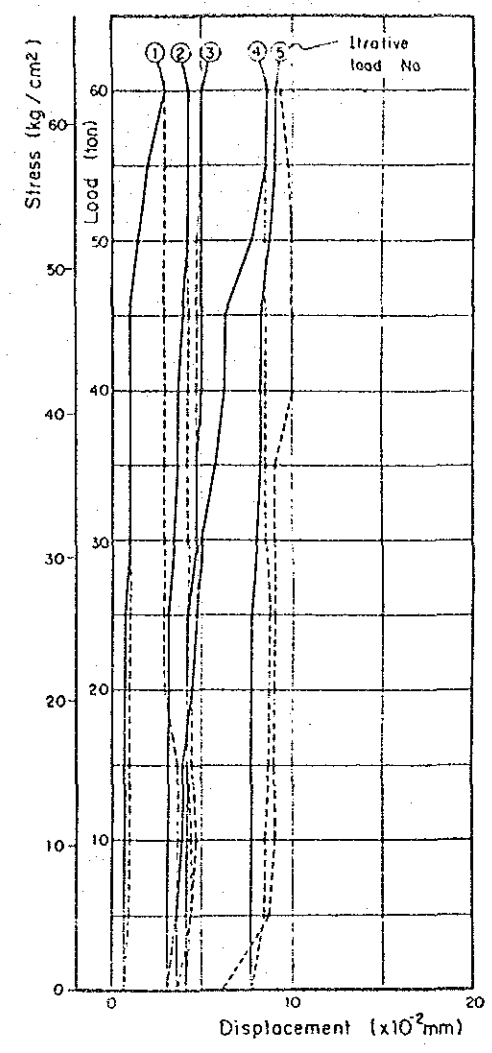
PL - 2'

Time displacement

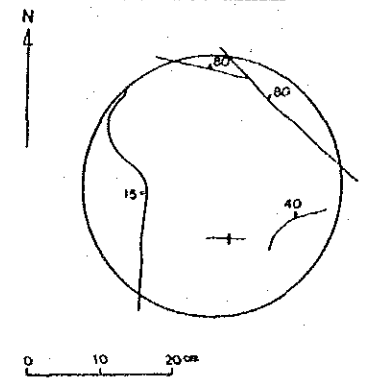


Load pattern

Load displacement



Geological sketch of loading plane



Rock type : Charnockite.
 Note : Fresh, solid and massive,
 with tight cracks.

Test result

Iterative loading No on 60 ton	Tangential elasticity (E _t) kg/cm ²	Secant elasticity (E _s) kg/cm ²	Modulus of deformation (D) kg/cm ²
1	—	731,423	
2	—	1,695,714	
3	—	2,194,288	
4	—	346,468	
5	—	1,316,571	
Average	—	1,246,893	—

GOVERNMENT OF DEMOCRATIC SOCIALIST
 REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
 THE MORAGAHAKANDA AGRICULTURAL
 DEVELOPMENT PROJECT

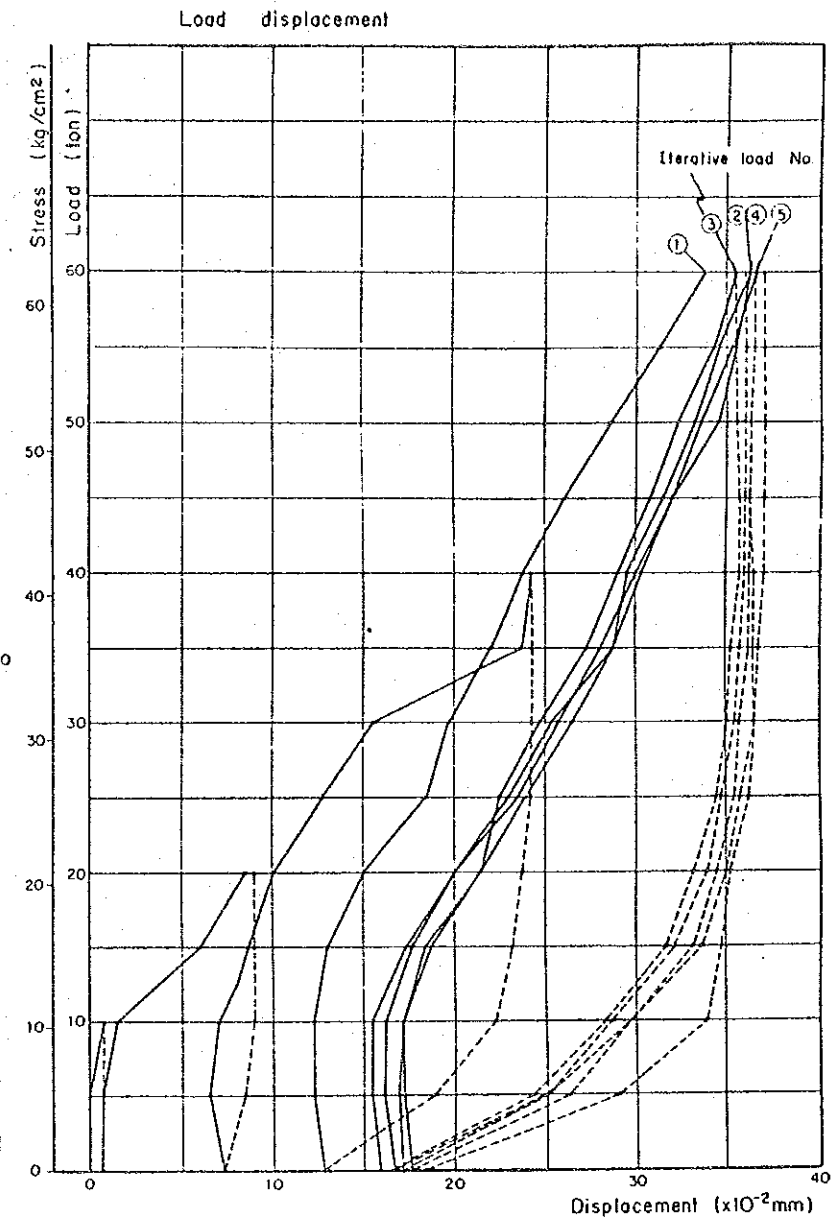
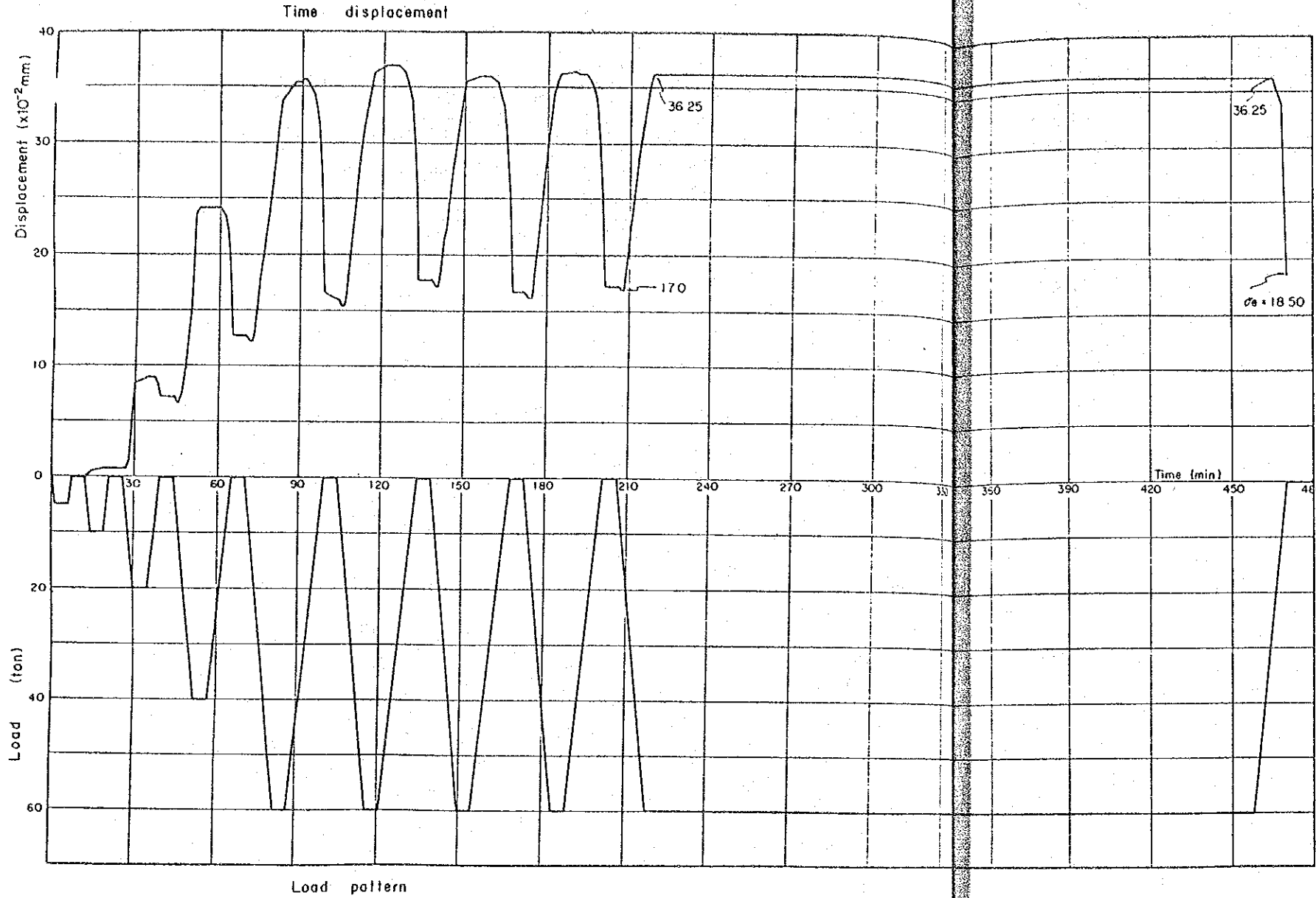
TITLE OF DRAWINGS

PLATE LOAD TEST PL-2'

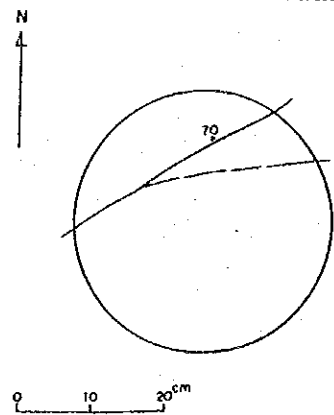
JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN

DWG. No.

PL-3 $\phi = 35 \text{ cm}$ $A = 962.11 \text{ cm}^2$



Geological sketch of loading plane.



Rock type : Charnockite
 Note : Fresh, solid and massive,
 with light cracks.

Test result

Iterative loading No on 60 ton	Tangential elasticity (E _t) kg/cm ²	Secant elasticity (E _s) kg/cm ²	Modulus of deformation (D) kg/cm ²
1	—	78,367	
2	86,511	81,270	
3	86,611	92,716	
4	96,801	89,396	
5	91,421	85,492	
Average	90,351	84,448	51,801

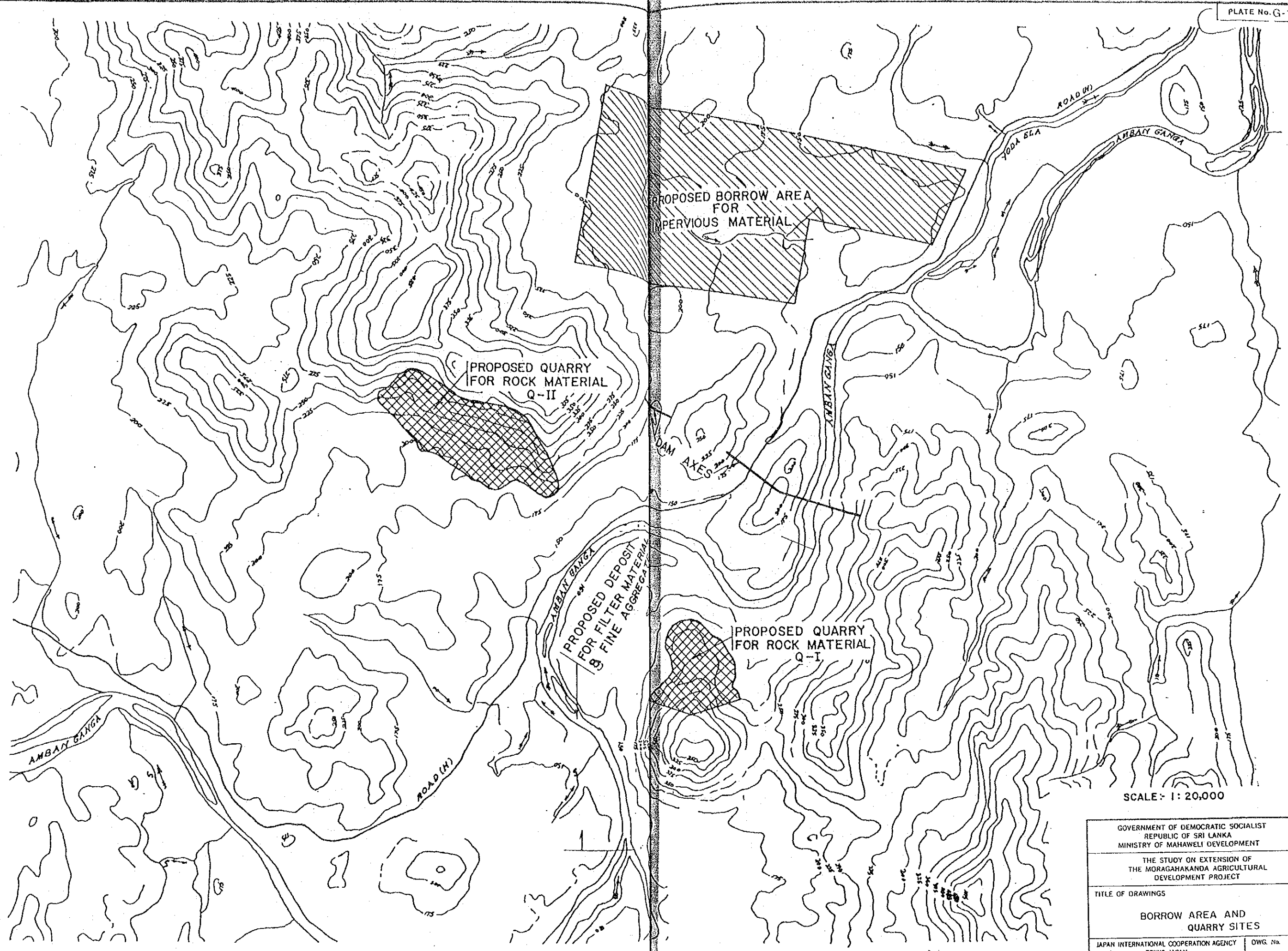
GOVERNMENT OF DEMOCRATIC SOCIALIST
 REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
 THE MORAGAHAKANDA AGRICULTURAL
 DEVELOPMENT PROJECT

TITLE OF DRAWINGS
 PLATE LOAD TEST
 PL-3

JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN

DWG. No.



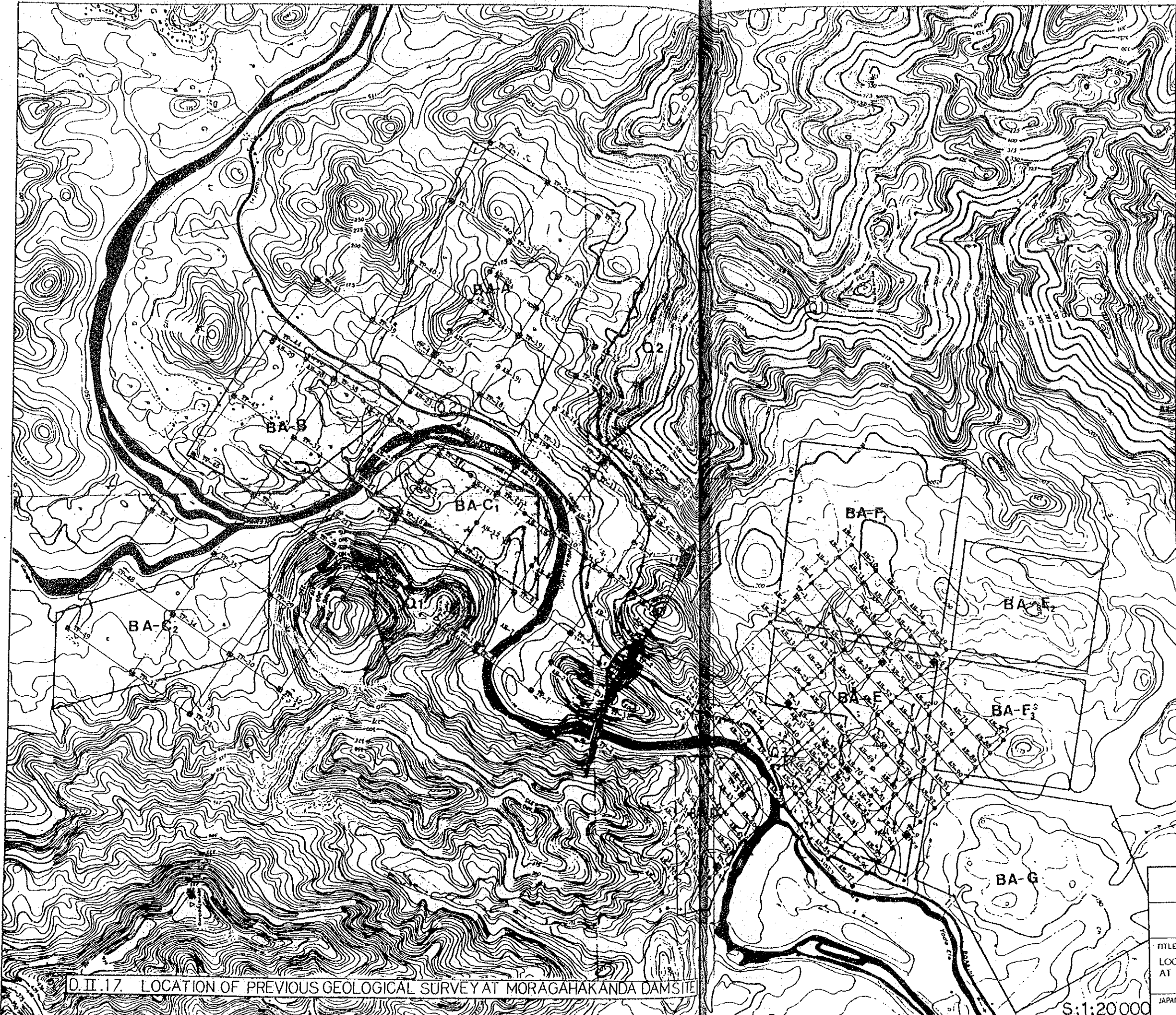
SCALE: 1:20,000

GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
BORROW AREA AND QUARRY SITES	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	OWG. No.

LEGEND

- BA : Borrow Areas
- Q : Quarry Area (New)
- Q̄ : Quarry Area (Old)
- AH : Auger Holes
- TP : Test Pits

TP 1 - 49 UPSTREAM	Conducted by ID in 1961 under supervision of Mr. Frink.
TP 1 - 9 DOWNSTREAM	Conducted by ID in 1965 under supervision of Dr. Anden.
AH 1 - 27 DOWNSTREAM	Conducted by ID in 1965 under supervision of Dr. Anden.
TP 1 - 4 UPSTREAM	Conducted by ID in 1966.
AH 1 - 29 UPSTREAM	Conducted by ID in 1966.



D. II. 17. LOCATION OF PREVIOUS GEOLOGICAL SURVEY AT MORAGAHAKANDA DAMSITE

S:1:20 000

GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELE DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS LOCATION OF PREVIOUS GEOLOGICAL SURVEY AT MORAGAHAKANDA DAMSITE	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.



LEGEND

- BA Borrow Areas
- Q Quarry Area
- DM Rock Boring
- AH Auger Holes
- TP Test Pits
- BP Blasting Points

TP 1 - 37 DOWNSTREAM	Conducted by ID in July 1978.
TP 1 - 4 DOWNSTREAM	Conducted by ID in 1978/79 under supervision of JICA Team.
AH 1 - 26 DOWNSTREAM	Conducted by ID in 1978/79 under supervision of JICA Team.
AH 1 - 3 UPSTREAM and DOWNSTREAM	Conducted by ID in 1976/79 under supervision of JICA Team for comparison with previous results in each Borrow Area.

D. II. 18. LOCATION OF RECENT GEOLOGICAL SURVEY AT MORAGAHAKANDA DAMSITE

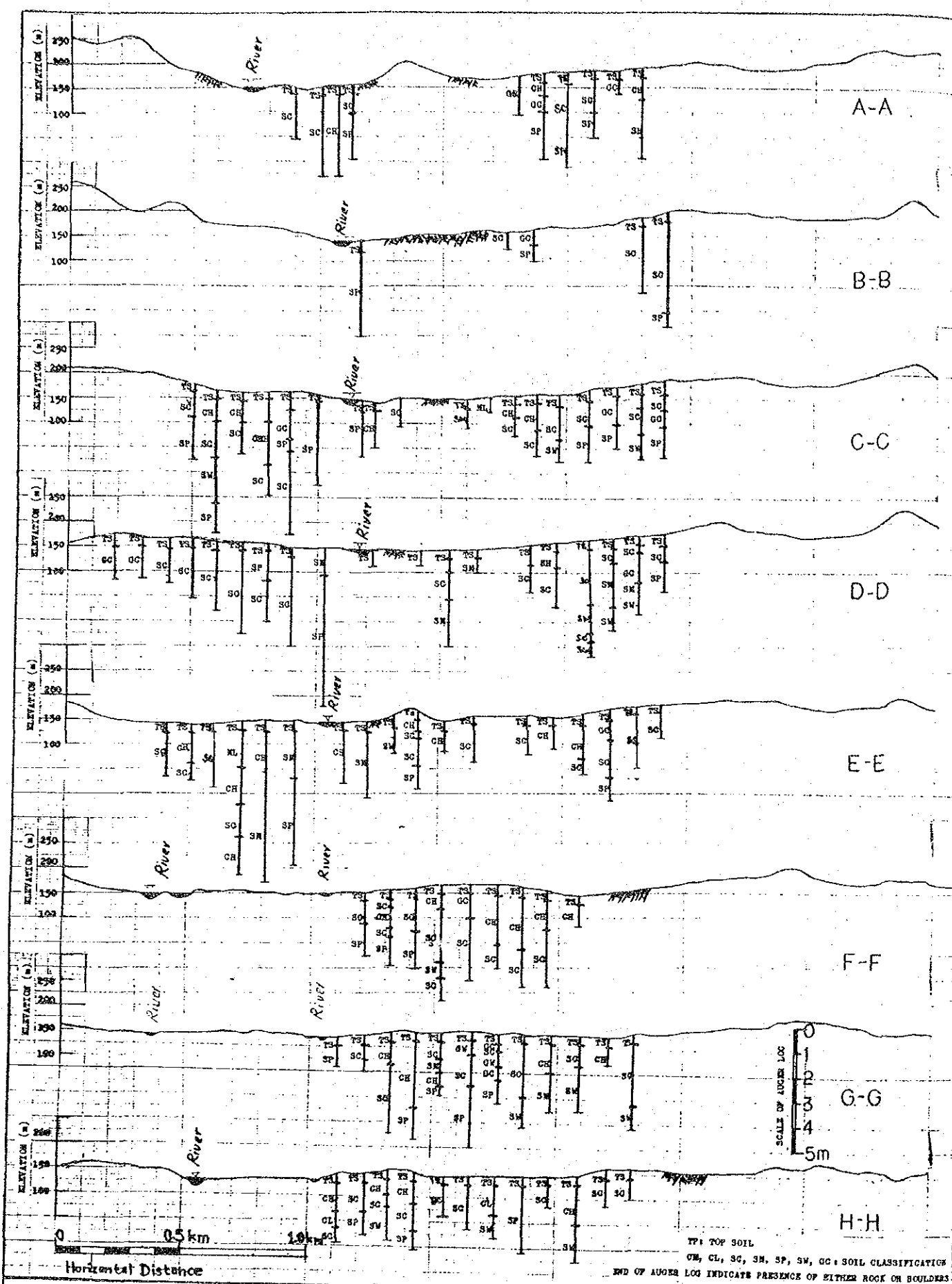
S: 1:20,000

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELE DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
LOCATION OF RECENT
GEOLOGICAL SURVEY AT
MORAGAHAKANDA DAMSITE

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
TOKYO JAPAN



D.II.19. TYPICAL GEOLOGICAL PROFILE OF DOWNSTREAM BORROW AREAS



SCALE 1:20000

- LEGEND
- OUTCROPS
 - BORROW AREA

VOLUME OF EARTH MATERIAL AVAILABLE IN BORROW AREAS E, F.

SOIL TYPE	VOLUME (m ³)
TS	471,000
CH	630,000
GC	123,000
SC	1,544,000
SP	651,000
Total	3,119,000

Note: The volume estimated here is the minimum volume available in Borrow Area E and part of Borrow Area F, where soil profile is confirmed with auger holes or test pits. Therefore, the total volume available in the whole borrow area is considered to be much larger than these figures.

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELE DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

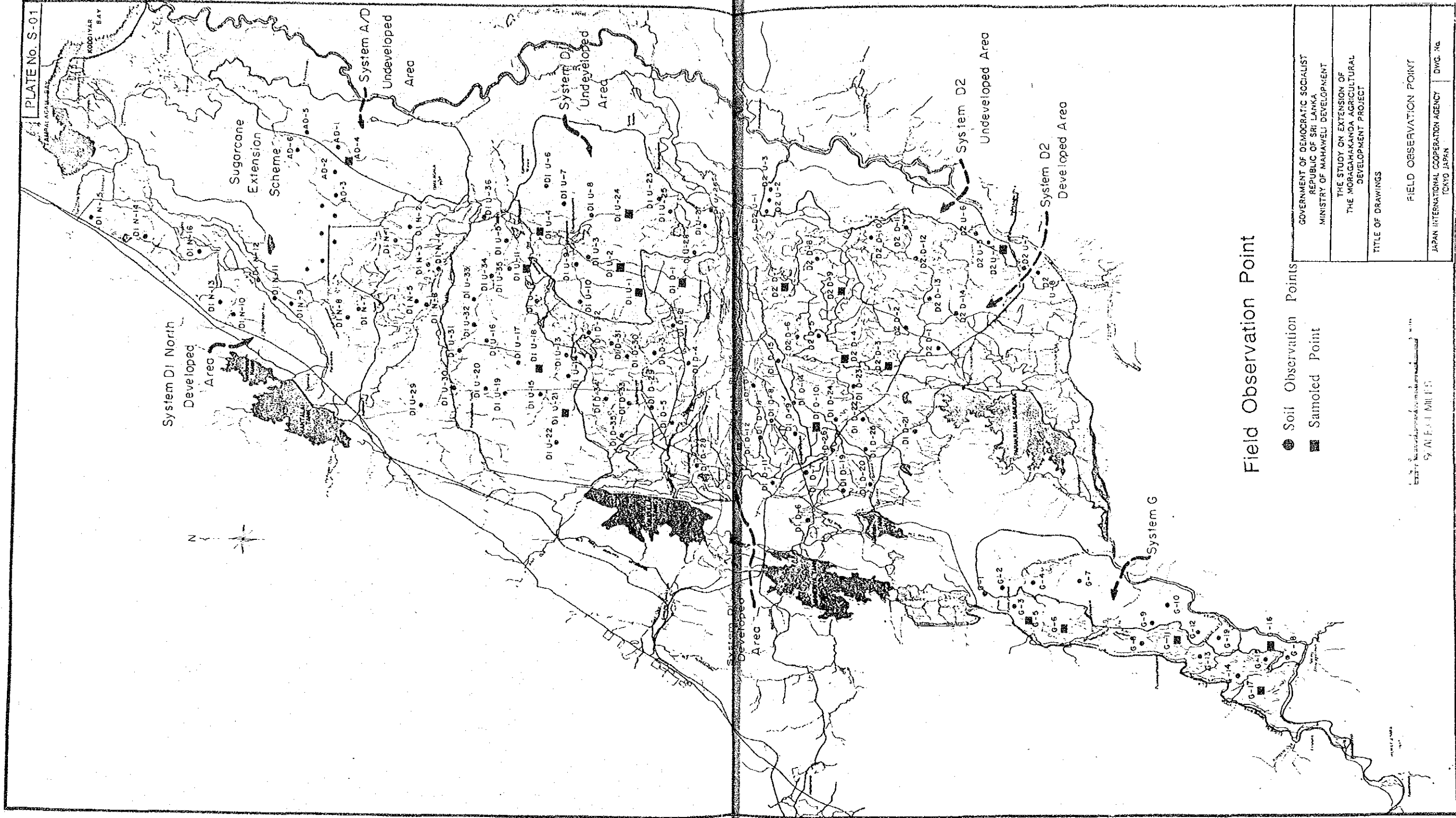
TITLE OF DRAWINGS
GEOLOGICAL PROFILE OF
DOWNSTREAM BORROW AREAS

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

DWG. No.

SOIL

PLATE No. S-01



Field Observation Point

- Soil Observation Points
- Sampled Point

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELE DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

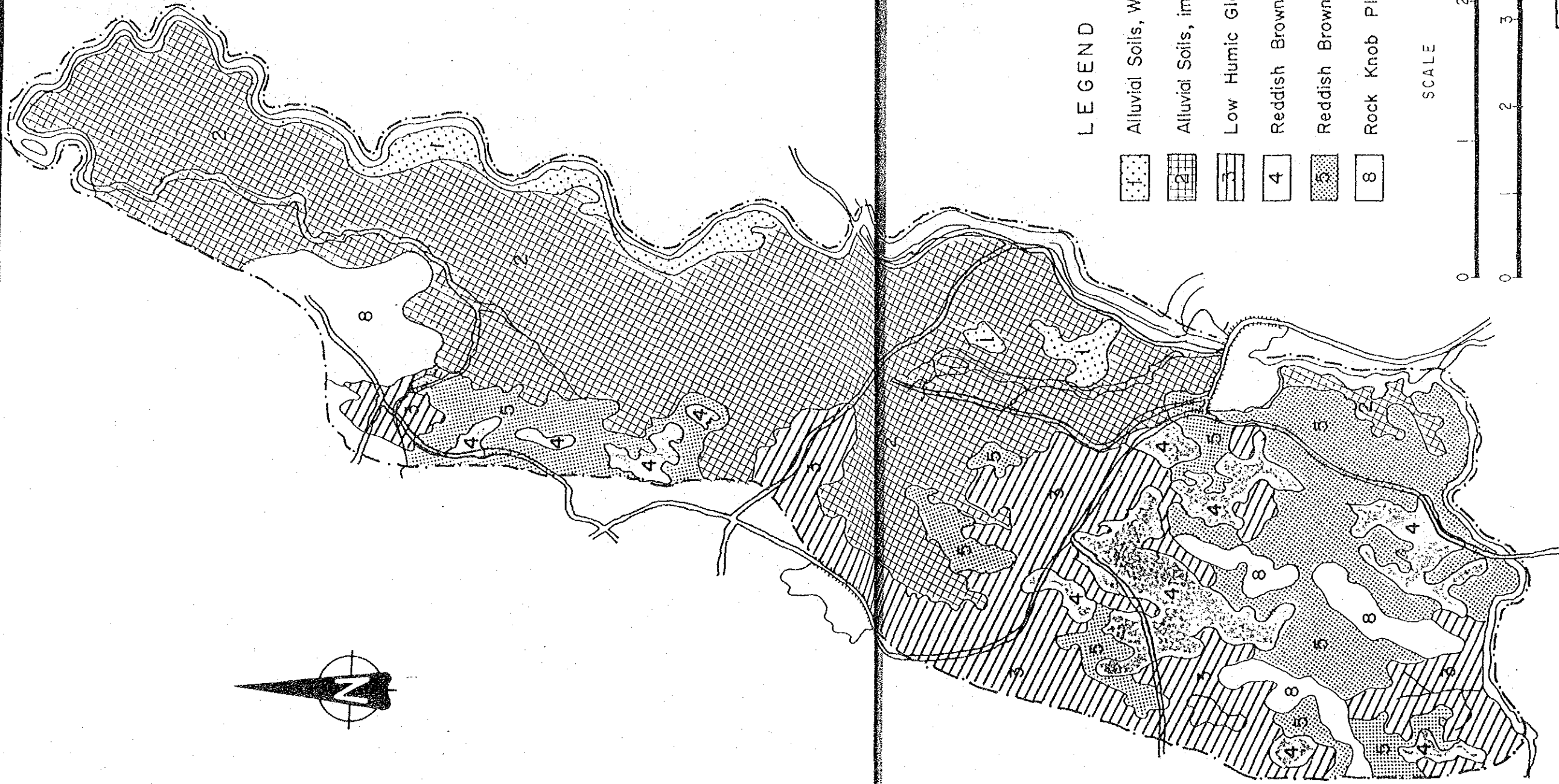
TITLE OF DRAWINGS

5 KILOMETERS
5 KILOMETERS

FIELD OBSERVATION POINT

JAPAN INTERNATIONAL COOPERATION AGENCY
DWC. No.

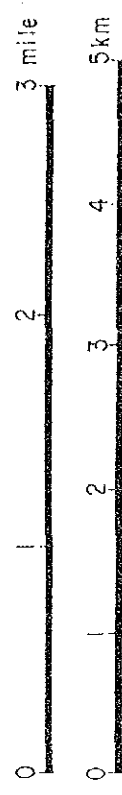
TOKYO JAPAN



LEGEND

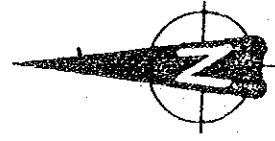
- 1. Alluvial Soils, Well to moderately well drained
- 2. Alluvial Soils, imperfectly to poorly drained
- 3. Low Humic Gley Soils
- 4. Reddish Brown Earth, well drained
- 5. Reddish Brown Earth, imperfectly drained
- 8. Rock Knob Plain

SCALE



Soil Map (System A/D , Undeveloped Area)

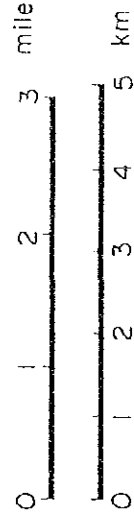
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELE DEVELOPMENT
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT
TITLE OF DRAWINGS
SOIL MAP (SYSTEM A/D, UNDEVELOPED AREA)
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN
DWG. No.



LEGEND:

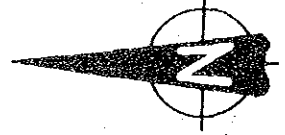
- 2 Alluvial Soils(imperfect/poor drained)
- 3 Low Humic Gley Soils.
- 4 Reddish Brown Earths(Well drained)
- 5 Reddish Brown Earths(imperfect/poor drained)
- 6 Reddish Brown Earths(Shallow/rocky phase)
- 7 Solonetz

SCALE







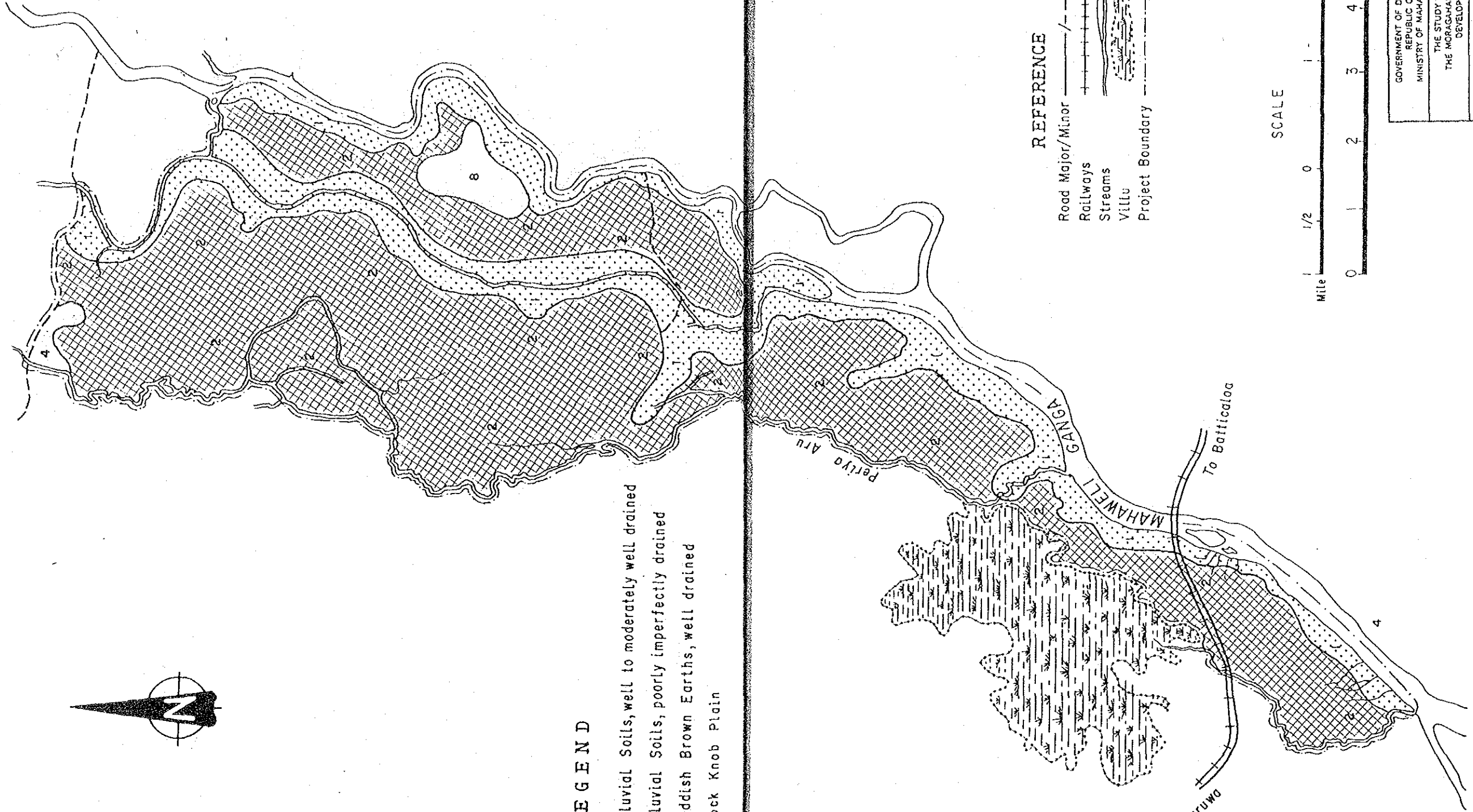
Soil Map(System D1, Undeveloped Area)

GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELE DEVELOPMENT
THE STUDY ON EXTENSION OF THE MORAGAKANDA AGRICULTURAL DEVELOPMENT PROJECT
TITLE OF DRAWINGS
SOIL MAP (SYSTEM D1, UNDEVELOPED AREA)
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN
DWG. No.

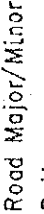
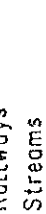
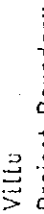
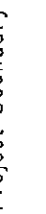



LEGEND

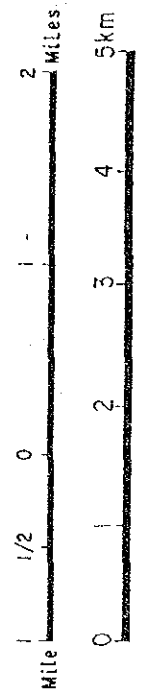
-  Alluvial Soils, well to moderately well drained
-  Alluvial Soils, poorly imperfectly drained
-  Reddish Brown Earths, well drained
-  Rock Knob Plain



REFERENCE

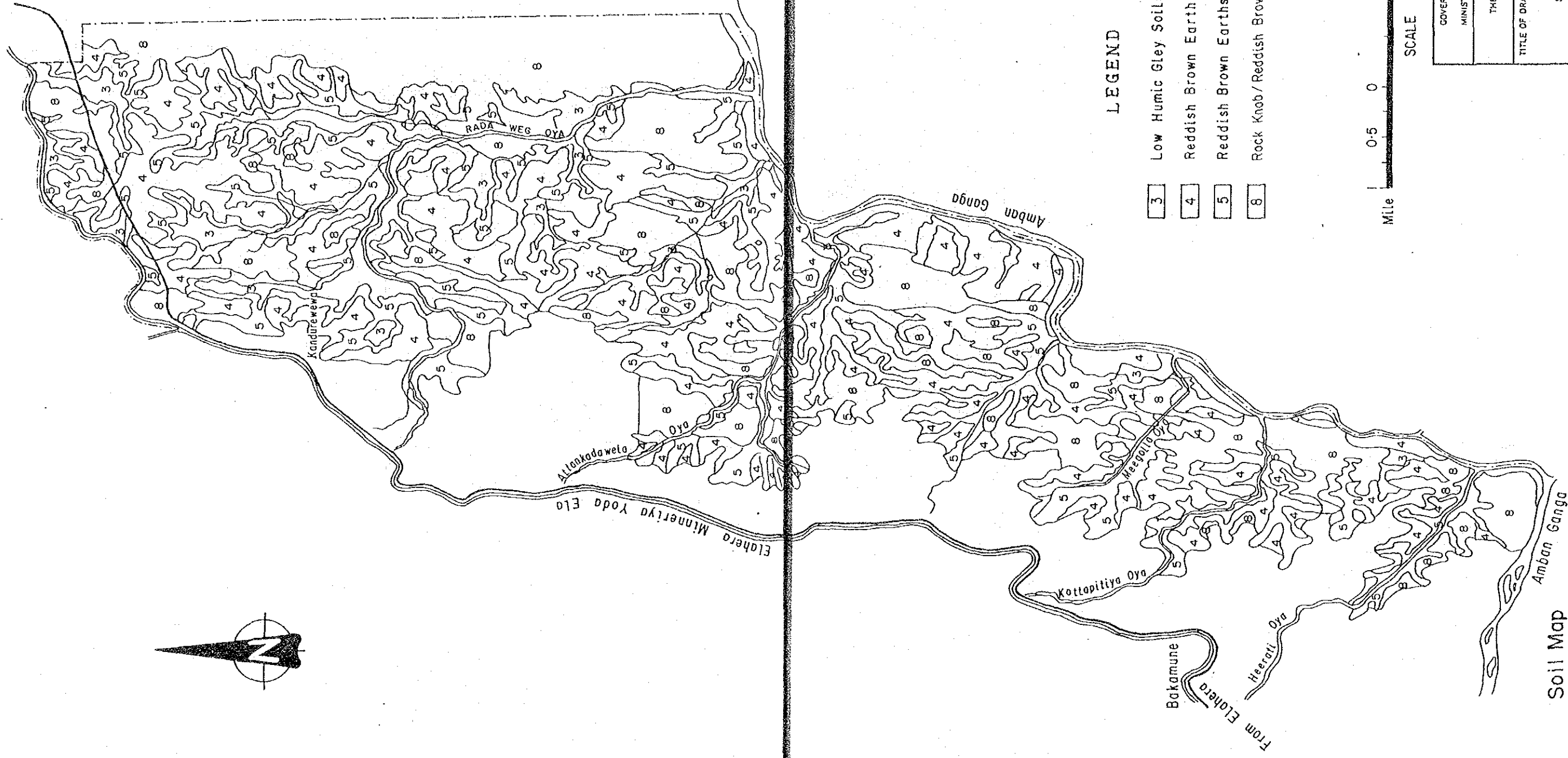
-  Road Major/Minor
-  Railways
-  Streams
-  Villu
-  Project Boundary

SCALE



**Soil Map
(System D2 Undeveloped Area)**

GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT
THE STUDY ON EXTENSION OF THE MORAGAMAKANDA AGRICULTURAL DEVELOPMENT PROJECT
TITLE OF DRAWINGS
SOIL MAP (SYSTEM D2, UNDEVELOPED AREA)
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN
DWG. No.



LEGEND

- 3 Low Humic Gley Soils
- 4 Reddish Brown Earths (well drained)
- 5 Reddish Brown Earths (imperfect / poor drained)
- 8 Rock Knob / Reddish Brown Earths (shallow / rocky phase)



SCALE

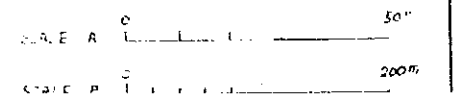
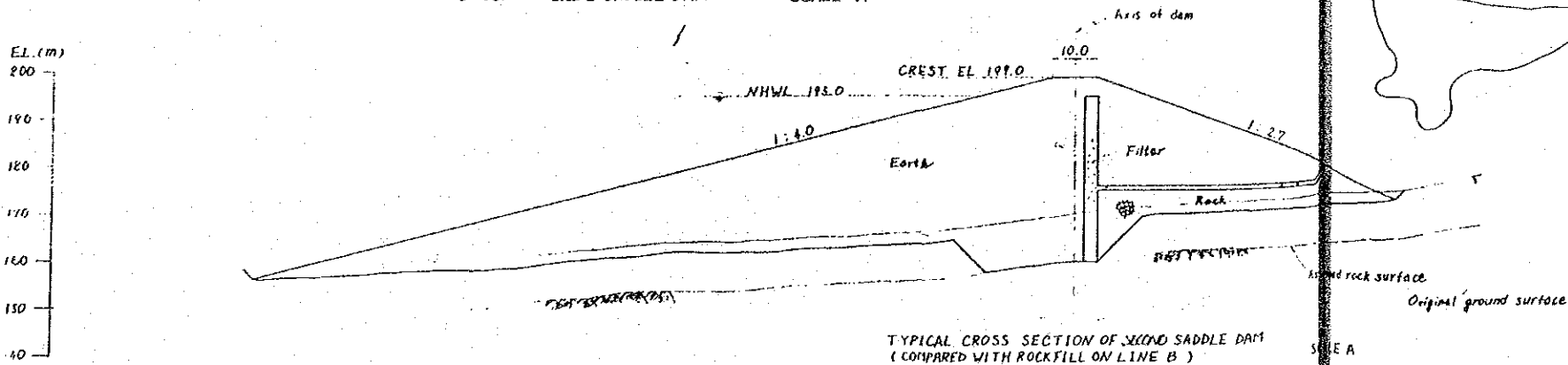
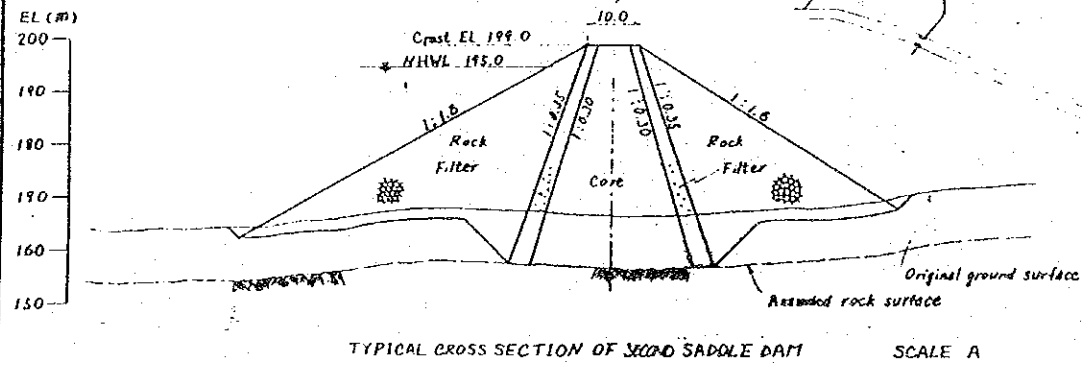
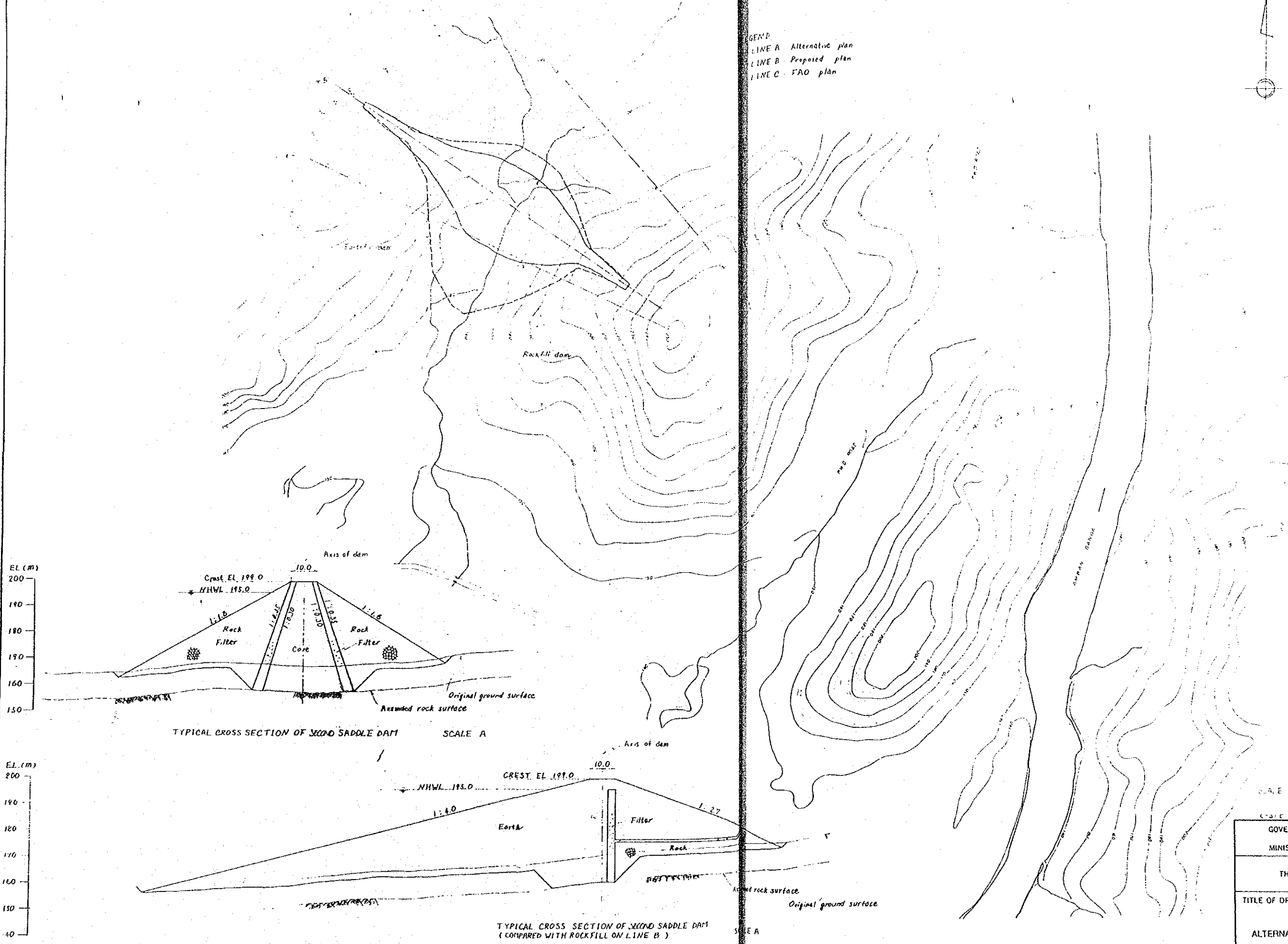
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELE DEVELOPMENT
THE STUDY ON EXTENSION OF THE MORAGAMAKANDA AGRICULTURAL DEVELOPMENT PROJECT
TITLE OF DRAWINGS
SOIL MAP (SYSTEM G)
JAPAN INTERNATIONAL COOPERATION AGENCY DWC. No. TOKYO, JAPAN

Soil Map
(System G)

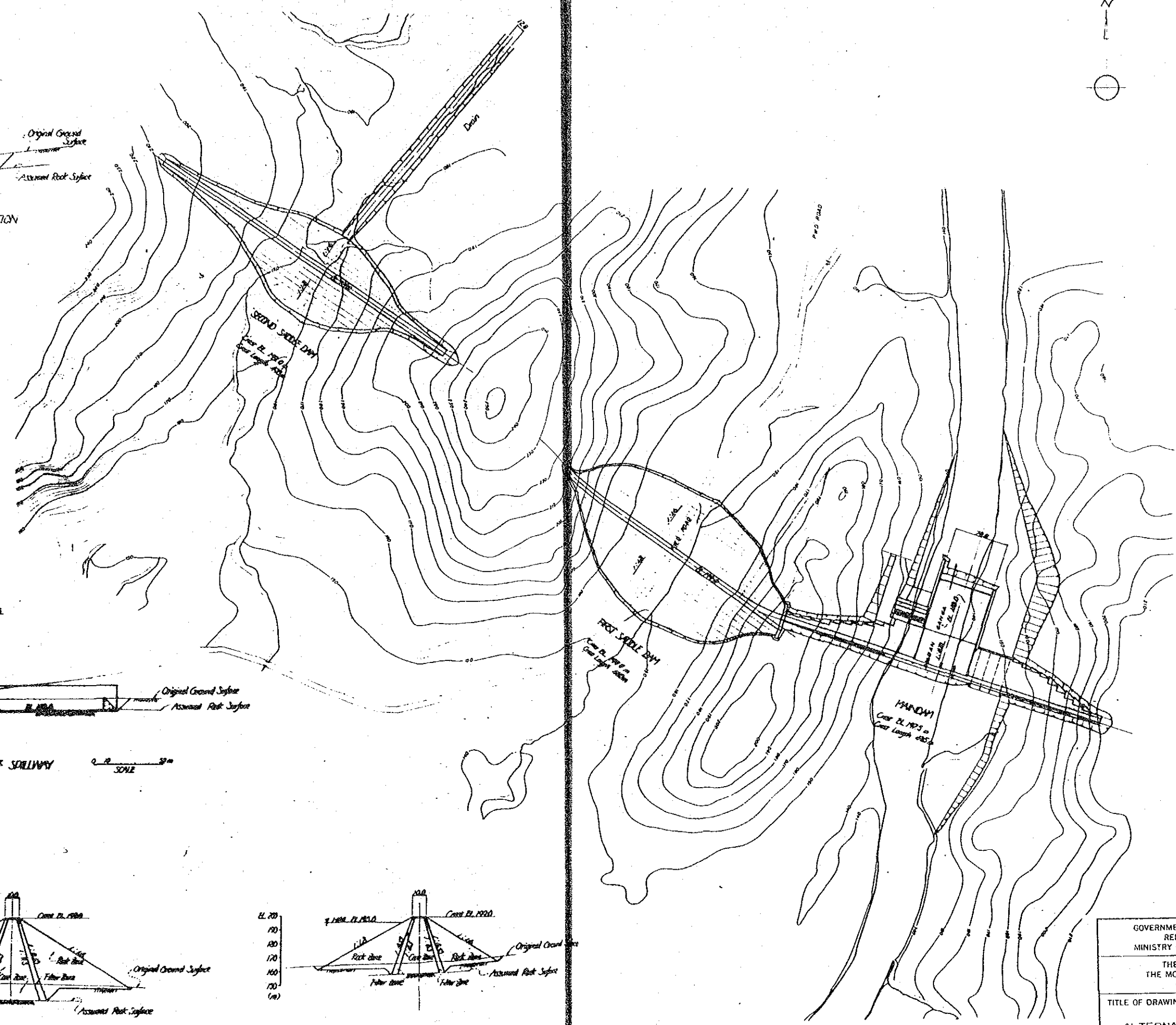
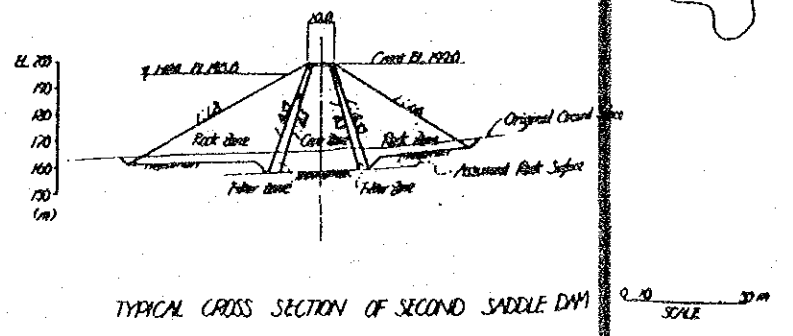
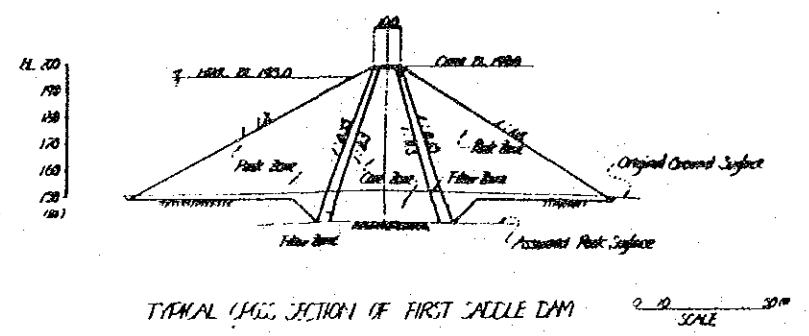
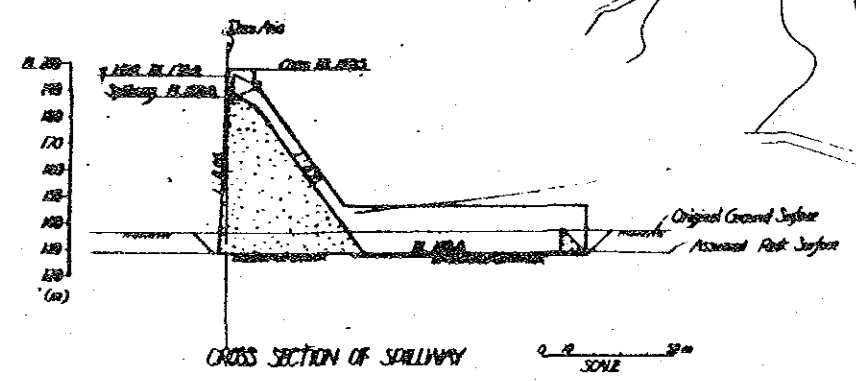
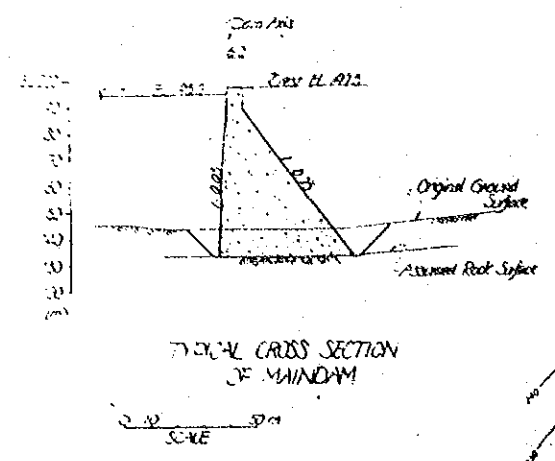
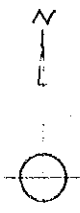
ALTERNATIVE STUDY

LOCATION MAP SCALE B

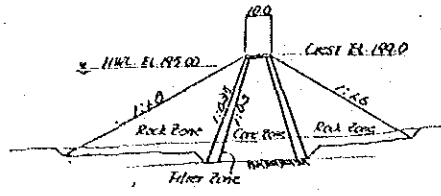
LEGEND
 LINE A Alternative plan
 LINE B Proposed plan
 LINE C FAO plan



GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
ALTERNATIVE STUDY OF SECOND SADDLE DAM	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

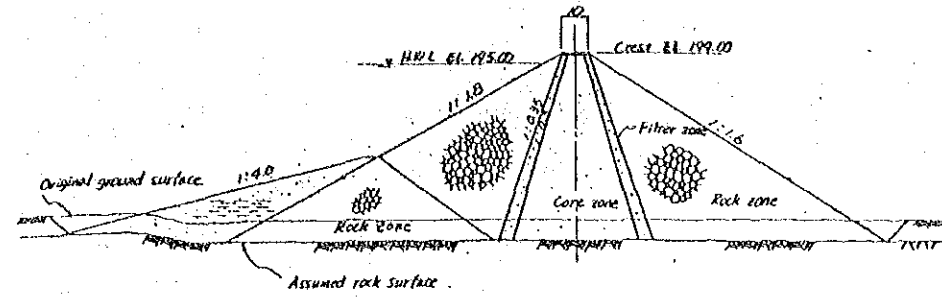


GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
ALTERNATIVE LAYOUT OF DAM. I	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.



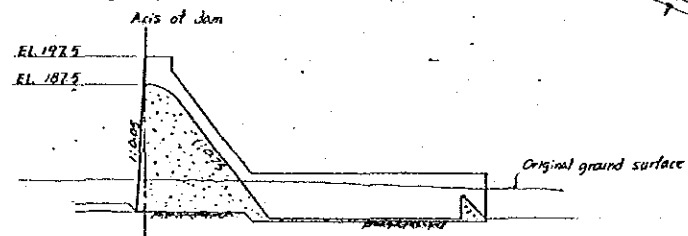
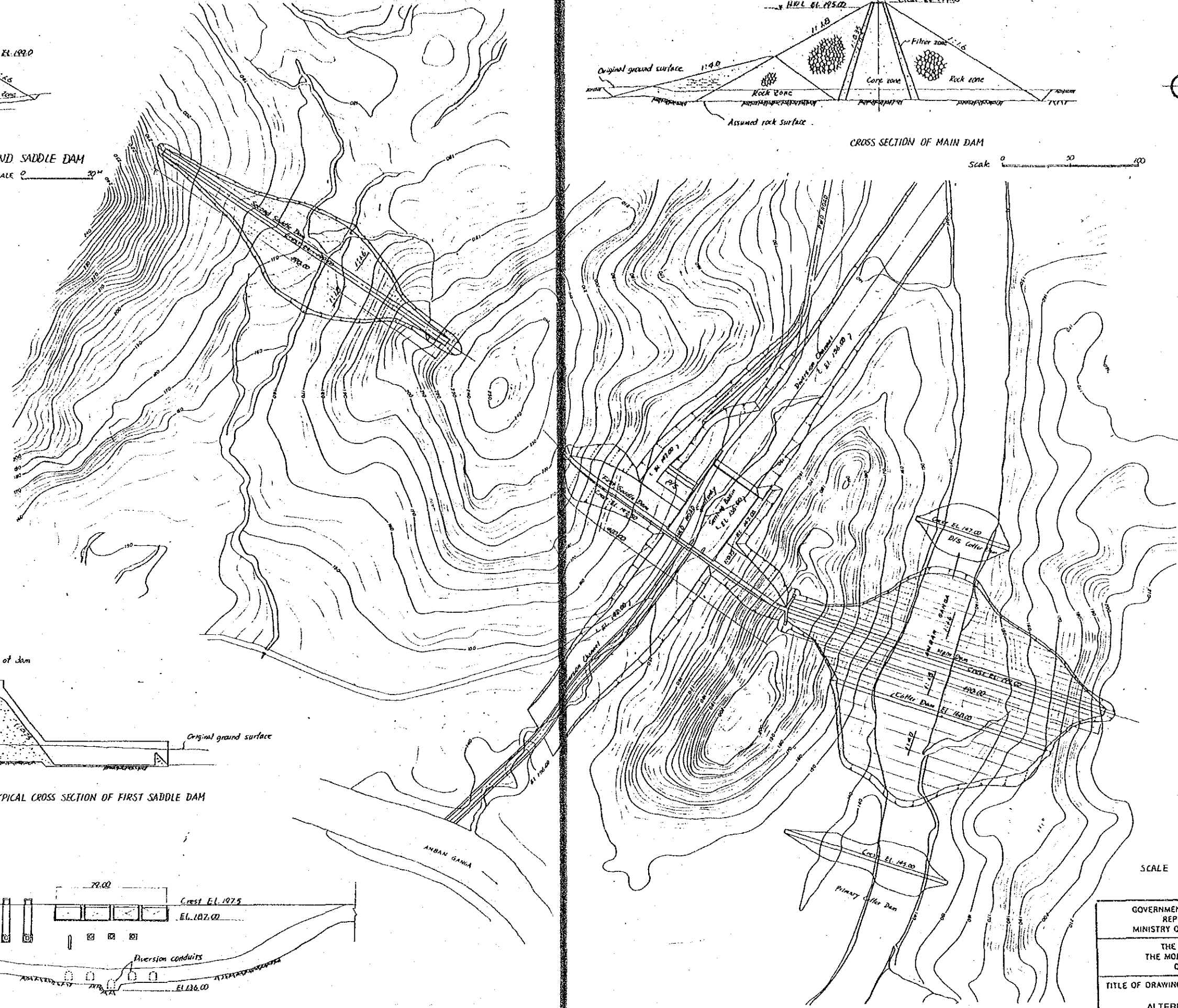
CROSS SECTION OF SECOND SADDLE DAM

Scale 0 20 30

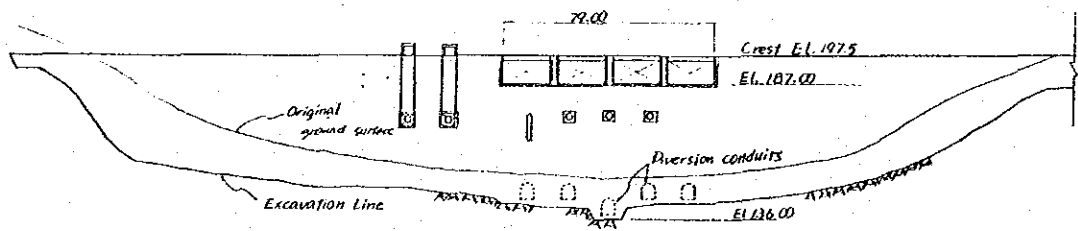


CROSS SECTION OF MAIN DAM

Scale 0 50 100



TYPICAL CROSS SECTION OF FIRST SADDLE DAM

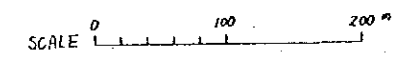
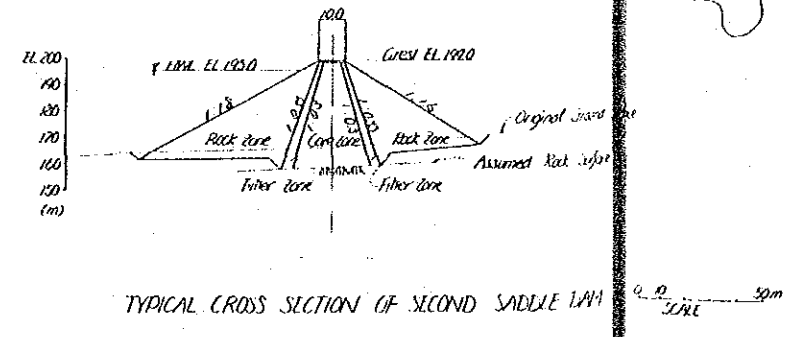
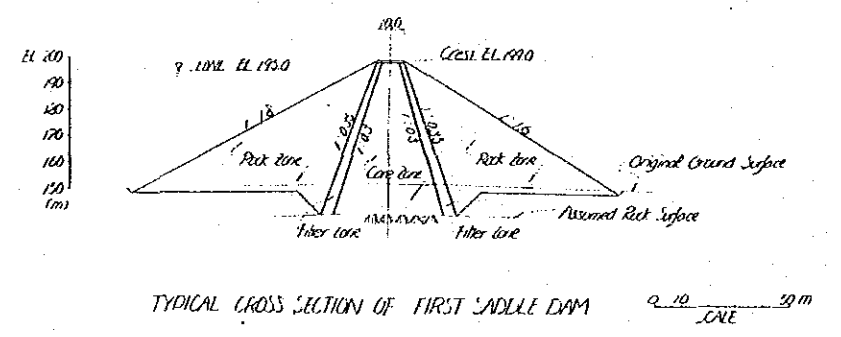
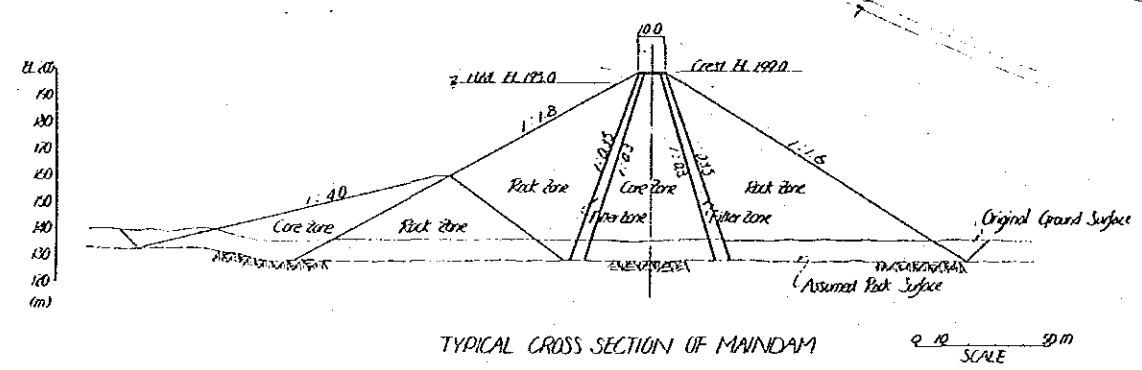
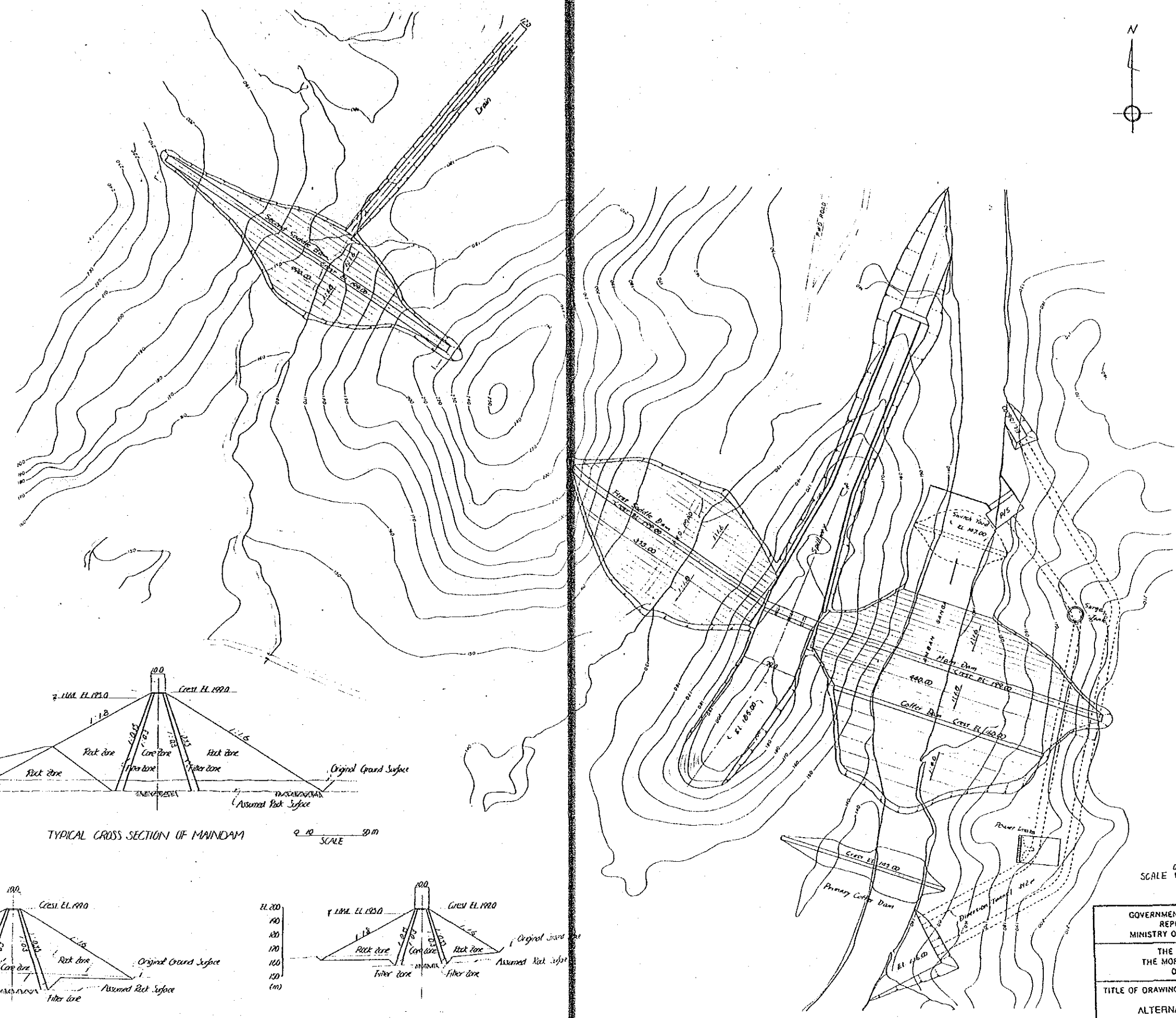
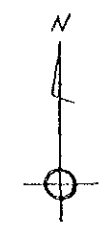


FRONT ELEVATION OF FIRST SADDLE DAM

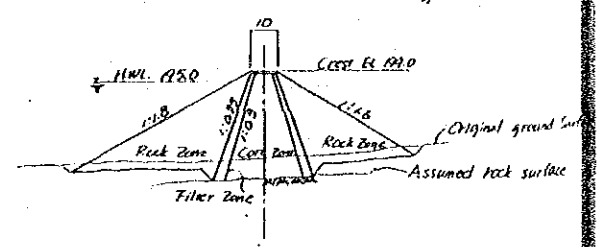
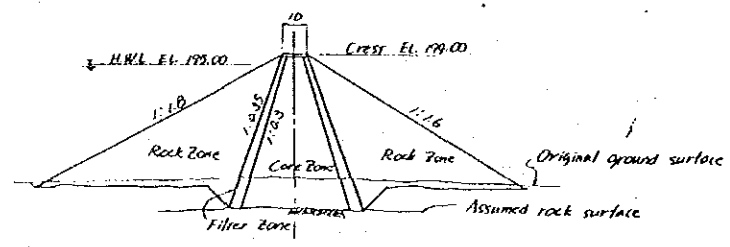
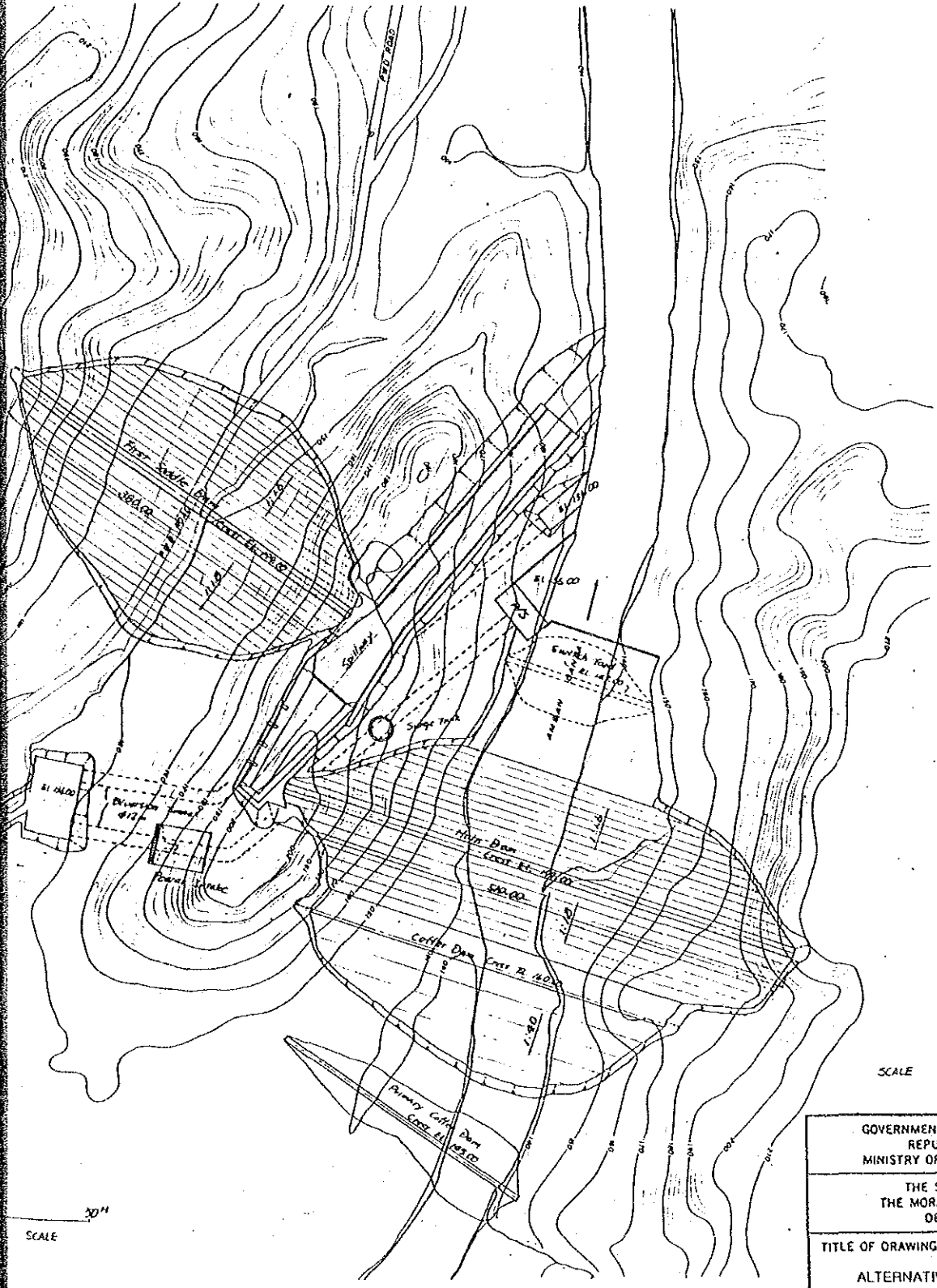
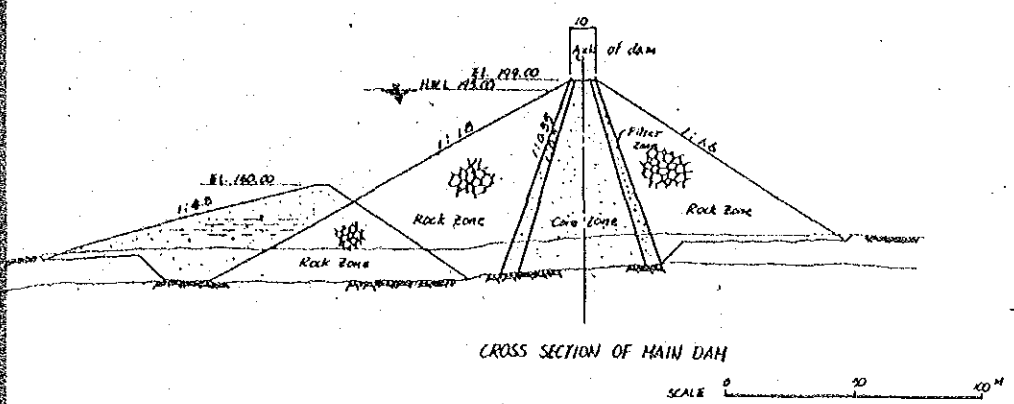
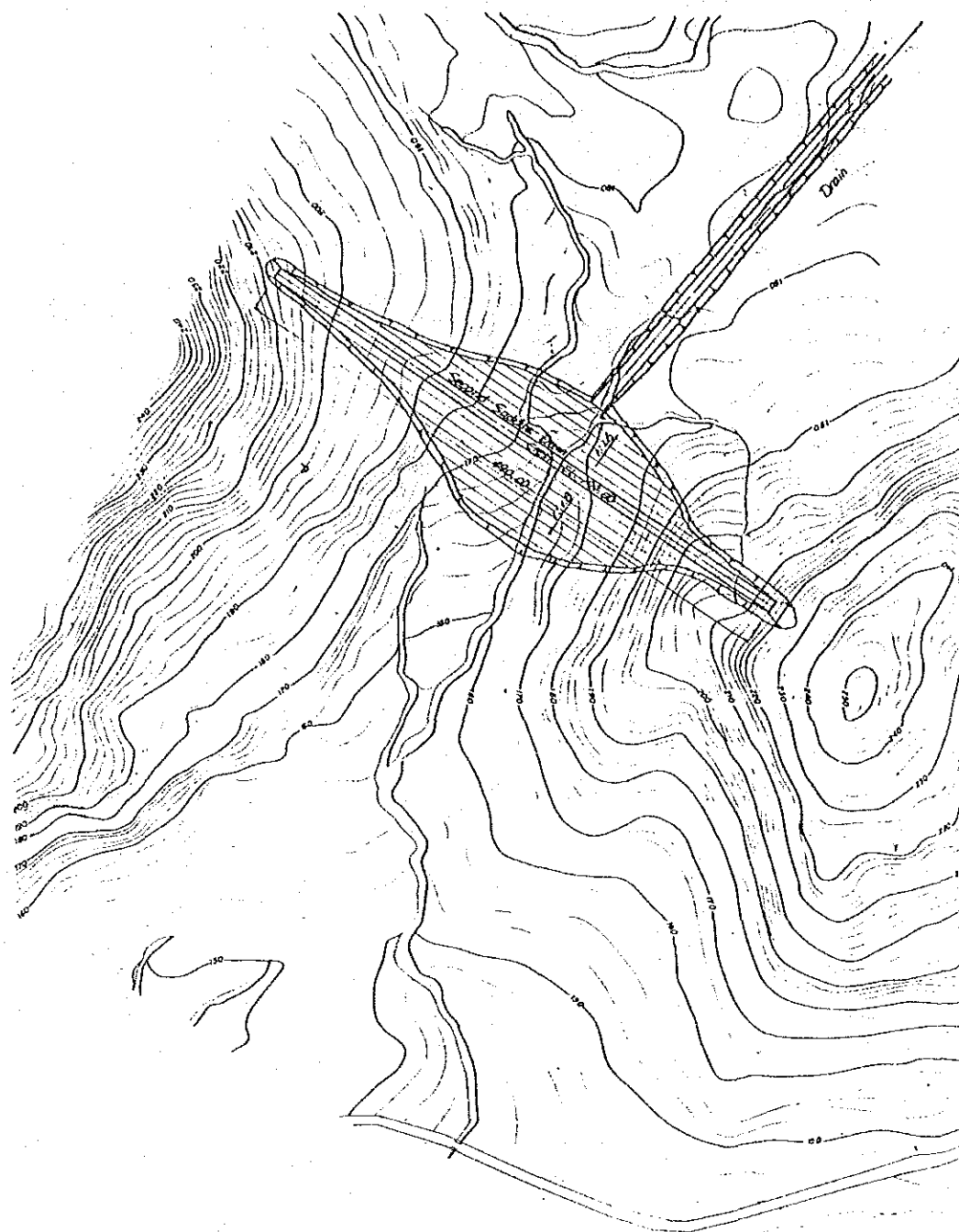
Scale 0 20 100

Scale 0 100 200

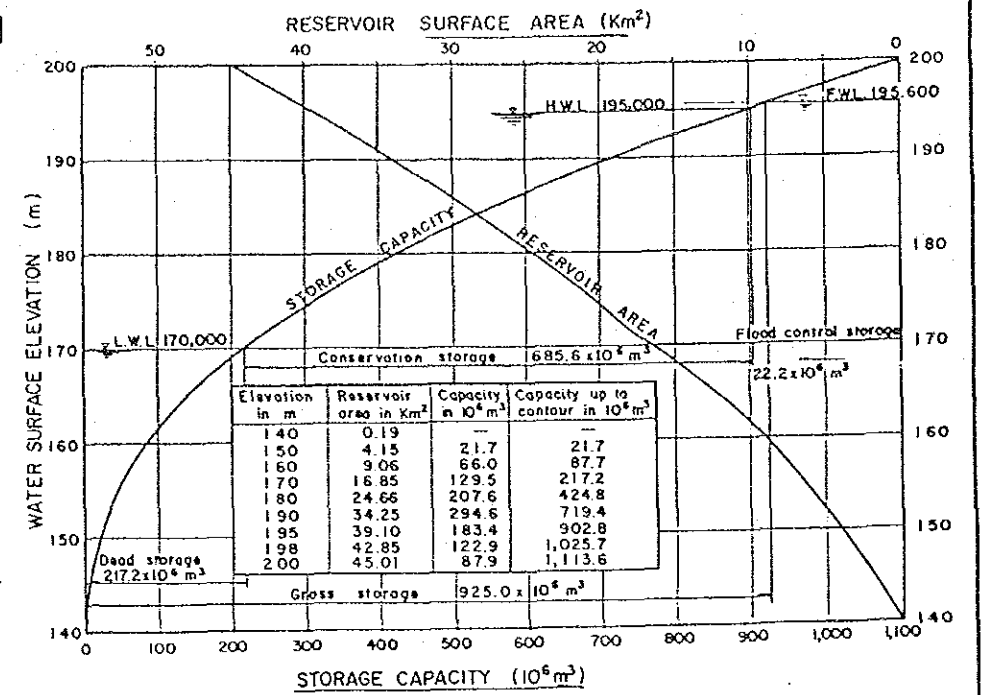
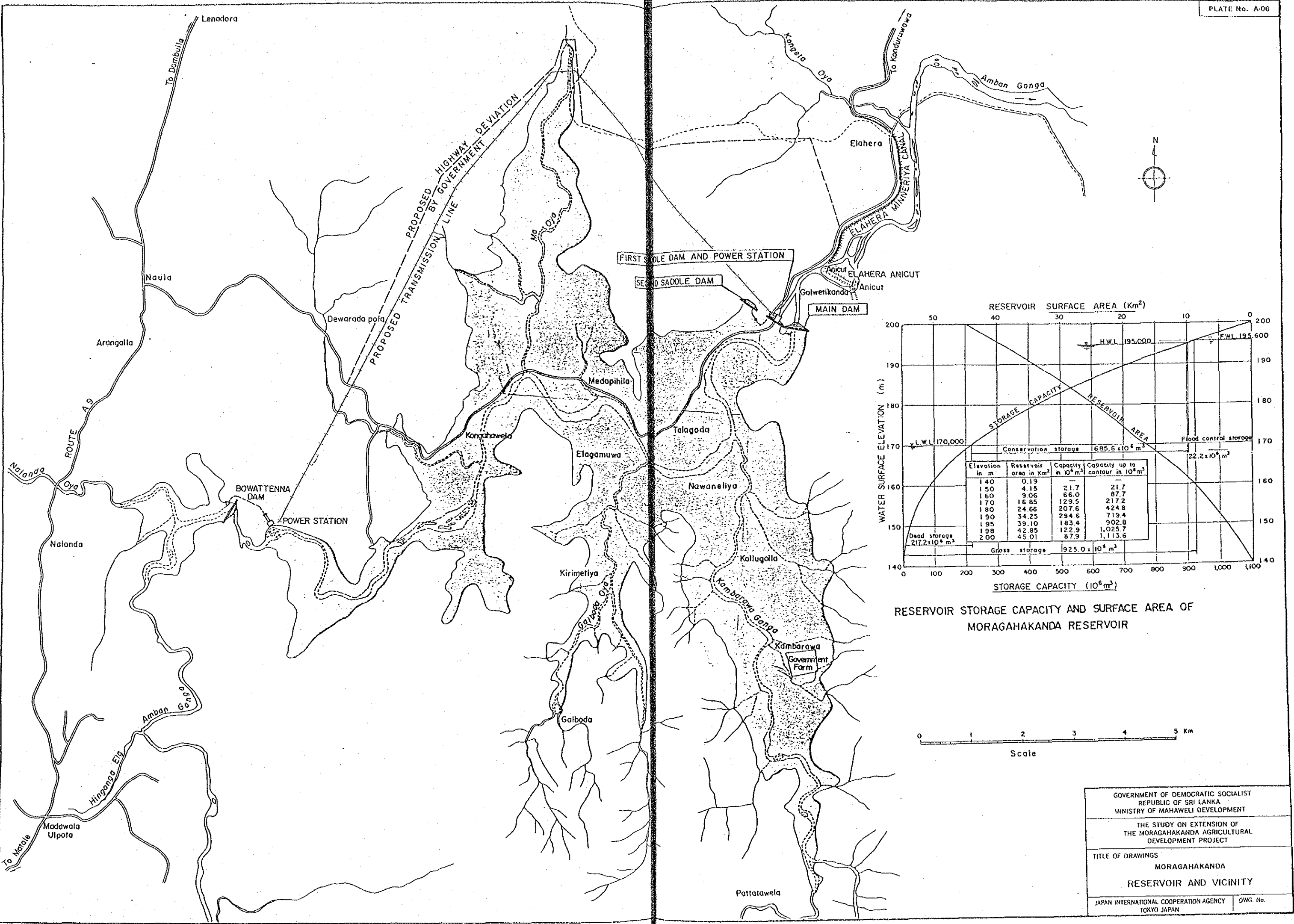
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS ALTERNATIVE LAYOUT OF DAM II	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.



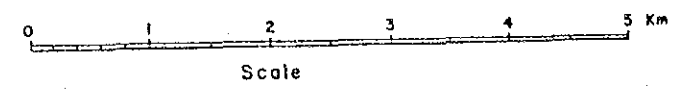
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS ALTERNATIVE LAYOUT OF DAM III	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.



GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS ALTERNATIVE LAYOUT OF DAM IV	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.



RESERVOIR STORAGE CAPACITY AND SURFACE AREA OF MORAGAHAKANDA RESERVOIR

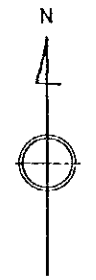


GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

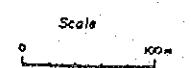
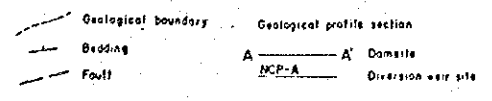
TITLE OF DRAWINGS
MORAGAHAKANDA
RESERVOIR AND VICINITY

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
TOKYO JAPAN



LEGEND

Geological age	Geological formation	Rock type	Symbol	Description
Quaternary	Residual soil, partly talus		Rs	Reddish brown sandy clay and sandy loam, including rock fragments.
	River bed deposit		Rd	Brown to yellowish brown deposits of silty clay and sand, partly containing gravels, silt or loess.
Pre-Cambrian	Highland series	Calcareous rocks	C	Crystalline limestone, massive, often containing quartz and mica.
		Gneiss	Gn	Cole gneiss, with quartz and/or mica in high proportion. Foliated but solid. Gneiss, some including much garnet. Generally siliceous and hard. Partly granulitic. Quartzite, some garnetiferous, coarse grained. Irregularly intercalating.
		Charnockite	Ch	Black or dark blue, massive, without foliation.

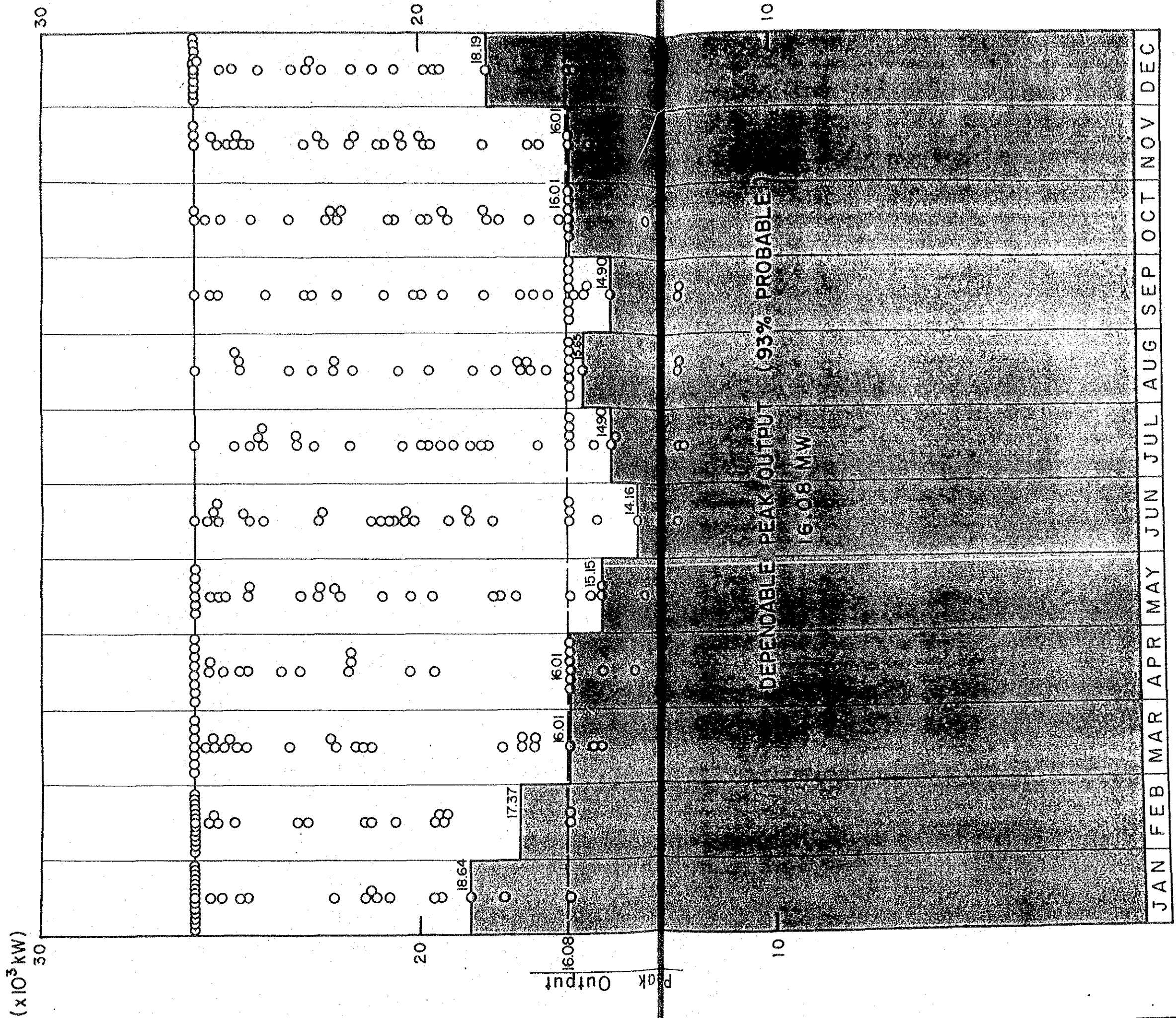


GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELE DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
GEOLOGICAL MAP OF DAMSITE

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
TOKYO JAPAN



Note : Based on the hydrologic data from 1950 to 1977
 --- : Monthly mean peak output

Month