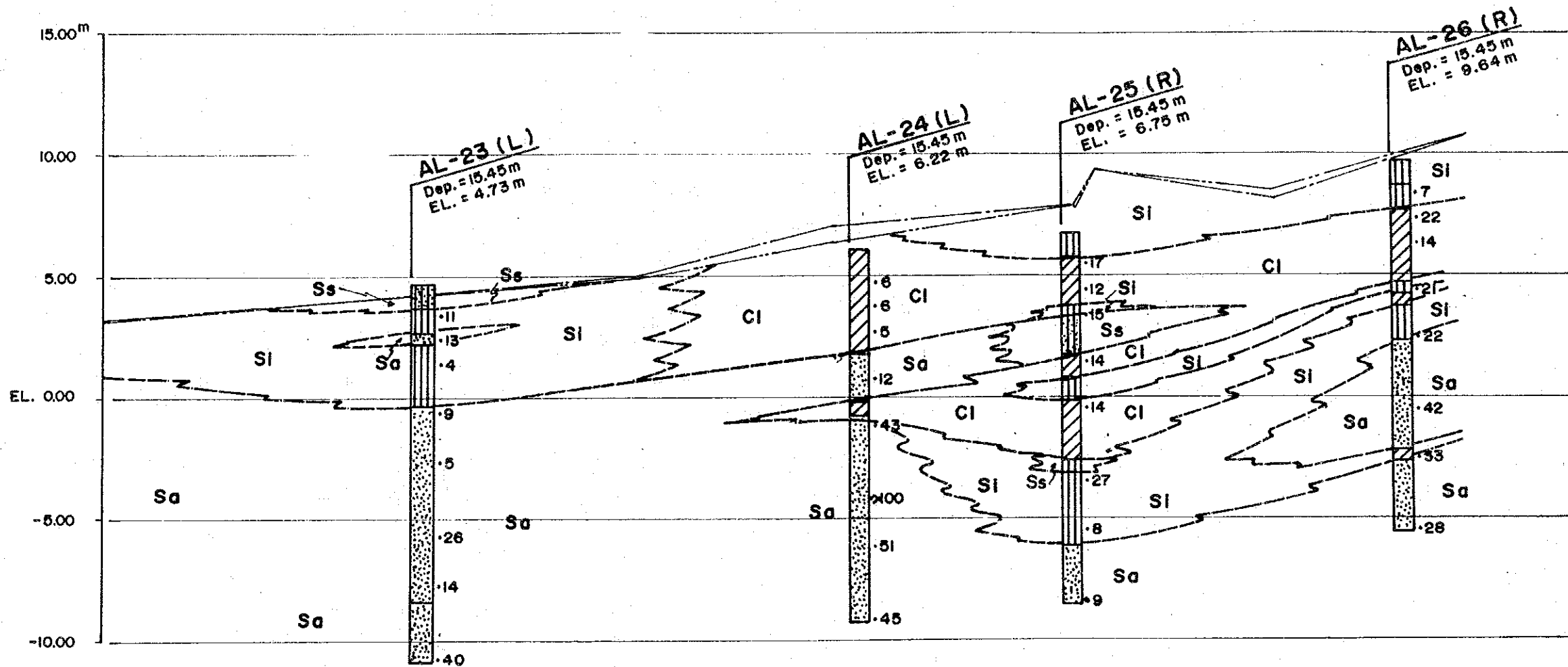
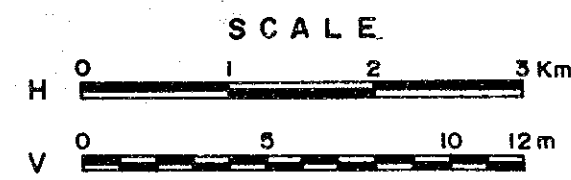


Fig. 2.5 (1/5) GEOLOGICAL PROFILE (ALLIED RIVER, SINOCALAN 1)

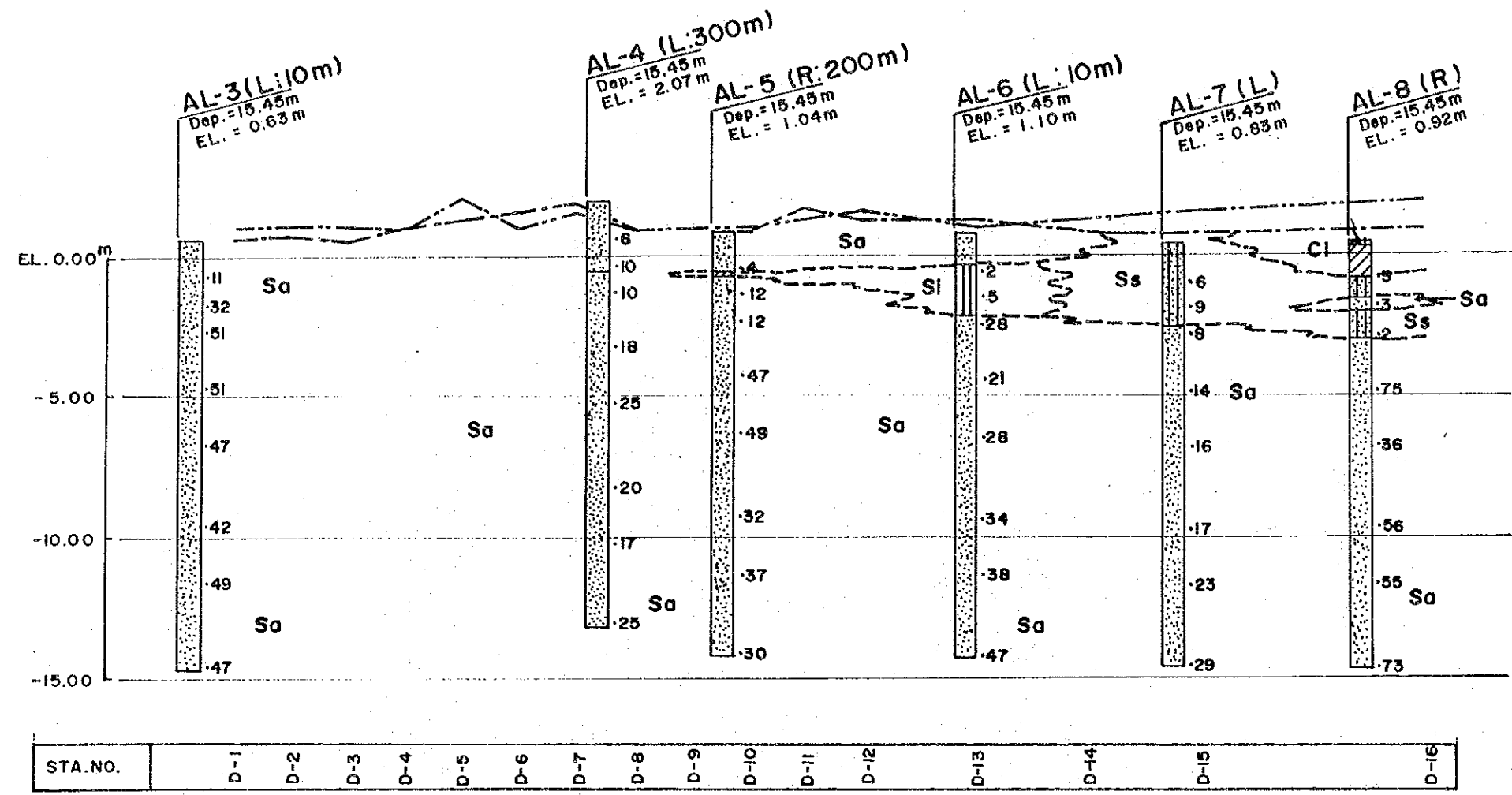


STA. NO	S-14	S-15	S-16	S-17	S-18	S-19	S-20	S-21
---------	------	------	------	------	------	------	------	------



NOTE:  
LEGEND SHOWN Fig. 2.5 (3/5)

Fig. 2.5(2/5) GEOLOGICAL PROFILE (ALLIED RIVER, SINOCALAN 2)



**LEGEND:**

Bore Hole No. & Location \*

AL-1 (R)  
 Dep. = 15.45 m  
 EL. = 0.35 m

Depth (m)  
 Elevation (m)  
 Ground Water Table  
 N - Value

- Clay / Silty Clay / Sandy Clay
- Silt / Sandy Silt / Clayey Silt
- Silty Sand / Clayey Sand
- Sand (Fine ~ Med. ~ Coarse)
- Gravel & Sand Mixture

\* LOCATION

- R : Right Bank / Right Side
- L : Left Bank / Left Side
- Up : Upstream Side
- Down : Downstream Side

DM	Dike Material
FM	Fill Material
Rd	River Deposit
Cl	Clay Layer
Sl	Silt Layer
Ss	Sandy Silt Layer
Sa	Sand Layer
Gr	Gravel Layer

Soil Layer Boundary  
 Right Bank  
 Left Bank

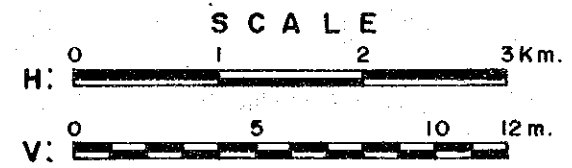
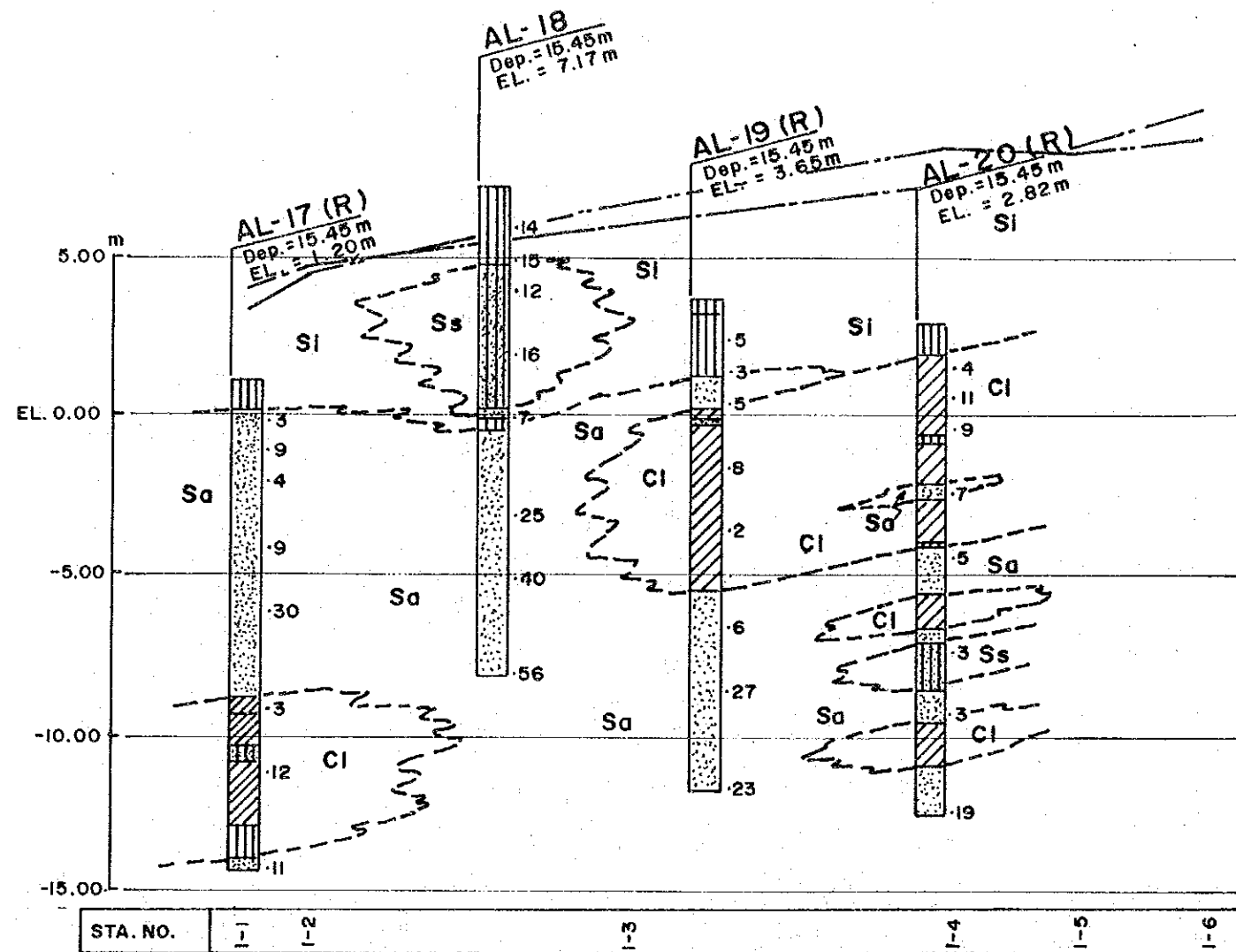


Fig. 2.5 (3/5) GEOLOGICAL PROFILE (ALLIED RIVER, DAGUPAN)



**LEGEND:**

- Bore Hole No. & Location \*
  - Depth (m)
  - Elevation (m)
  - Ground Water Table
  - N - Value
  - Clay/Silty Clay/Sandy Clay
  - Silt/Sandy Silt/Clayey Silt
  - Silty Sand/Clayey Sand
  - Sand (Fine ~ Med. ~ Coarse)
  - Gravel & Sand Mixture
- \* LOCATION
- R : Right Bank / Right Side
  - L : Left Bank / Left Side
  - Up : Upstream Side
  - Down : Downstream Side
- |    |                  |
|----|------------------|
| DM | Dike Material    |
| FM | Fill Material    |
| Rd | River Deposit    |
| Cl | Clay Layer       |
| Si | Silt Layer       |
| Ss | Sandy Silt Layer |
| Sa | Sand Layer       |
| Gr | Gravel Layer     |
- Soil Layer Boundary  
 Right Bank  
 Left Bank

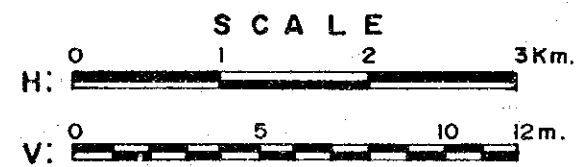
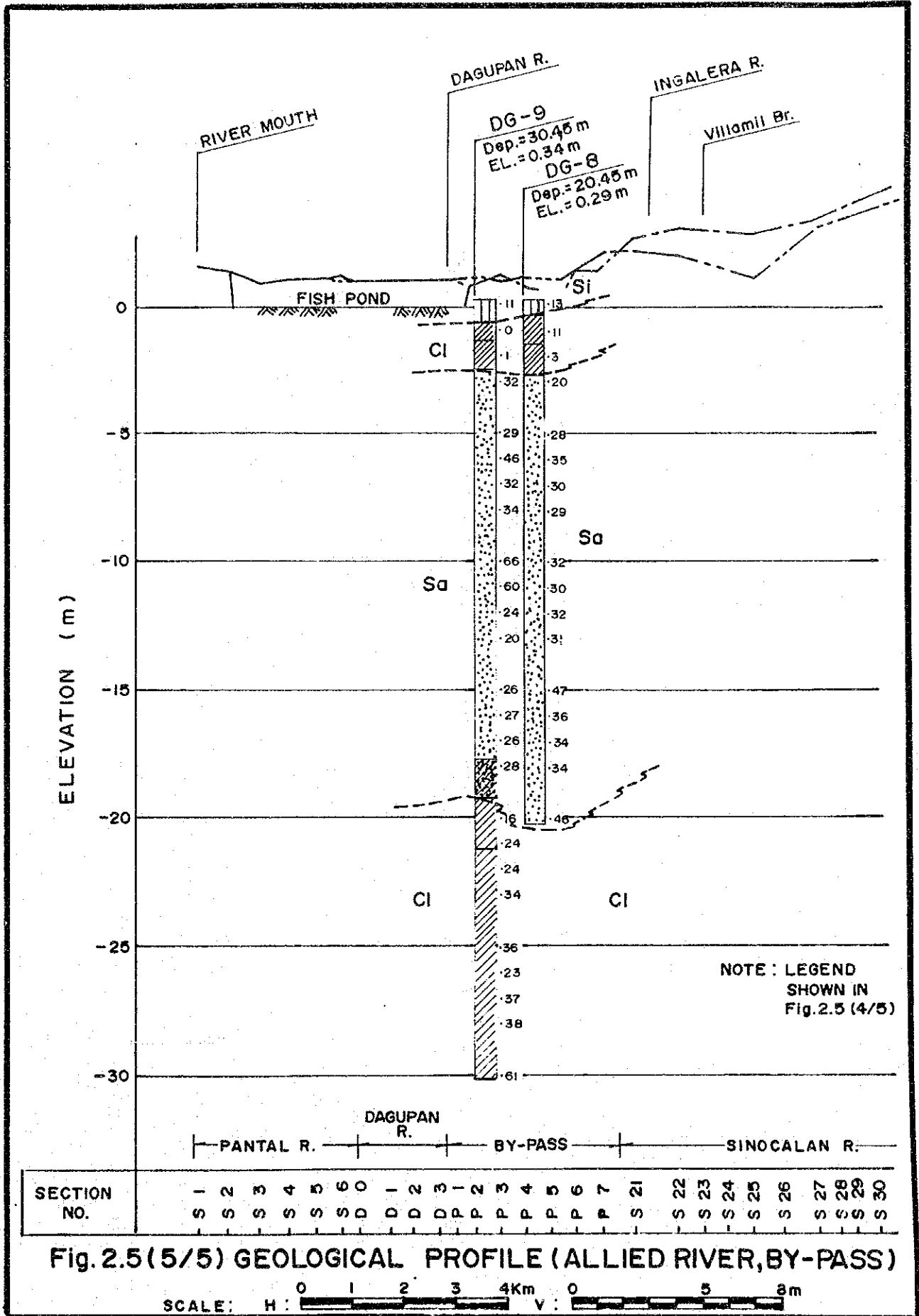


Fig. 2.5 (4/5) GEOLOGICAL PROFILE (ALLIED RIVER, INGALERA)



**Fig. 2.5 (5/5) GEOLOGICAL PROFILE (ALLIED RIVER, BY-PASS)**

SCALE: H: 0 1 2 3 4 Km V: 0 5 30 m

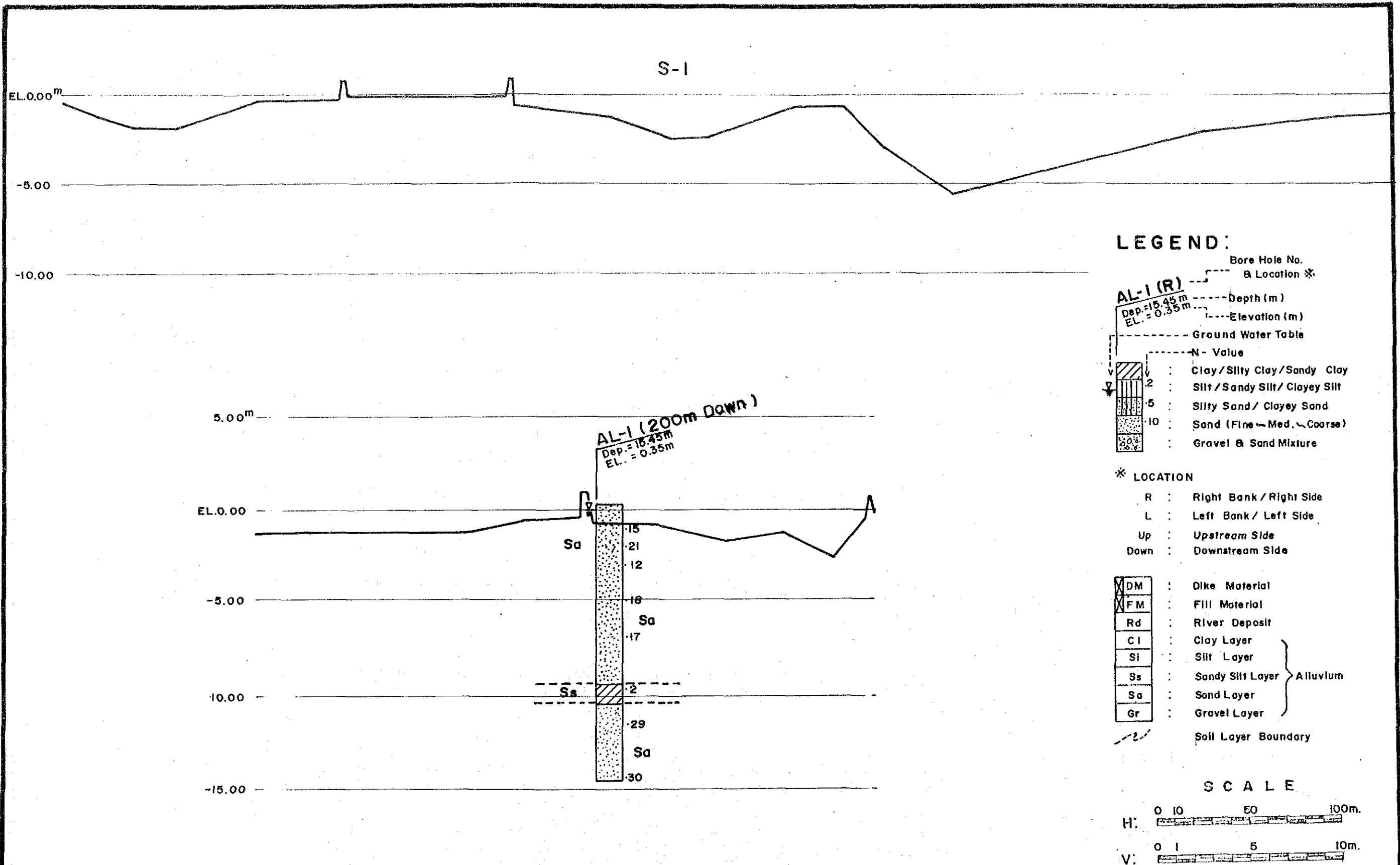
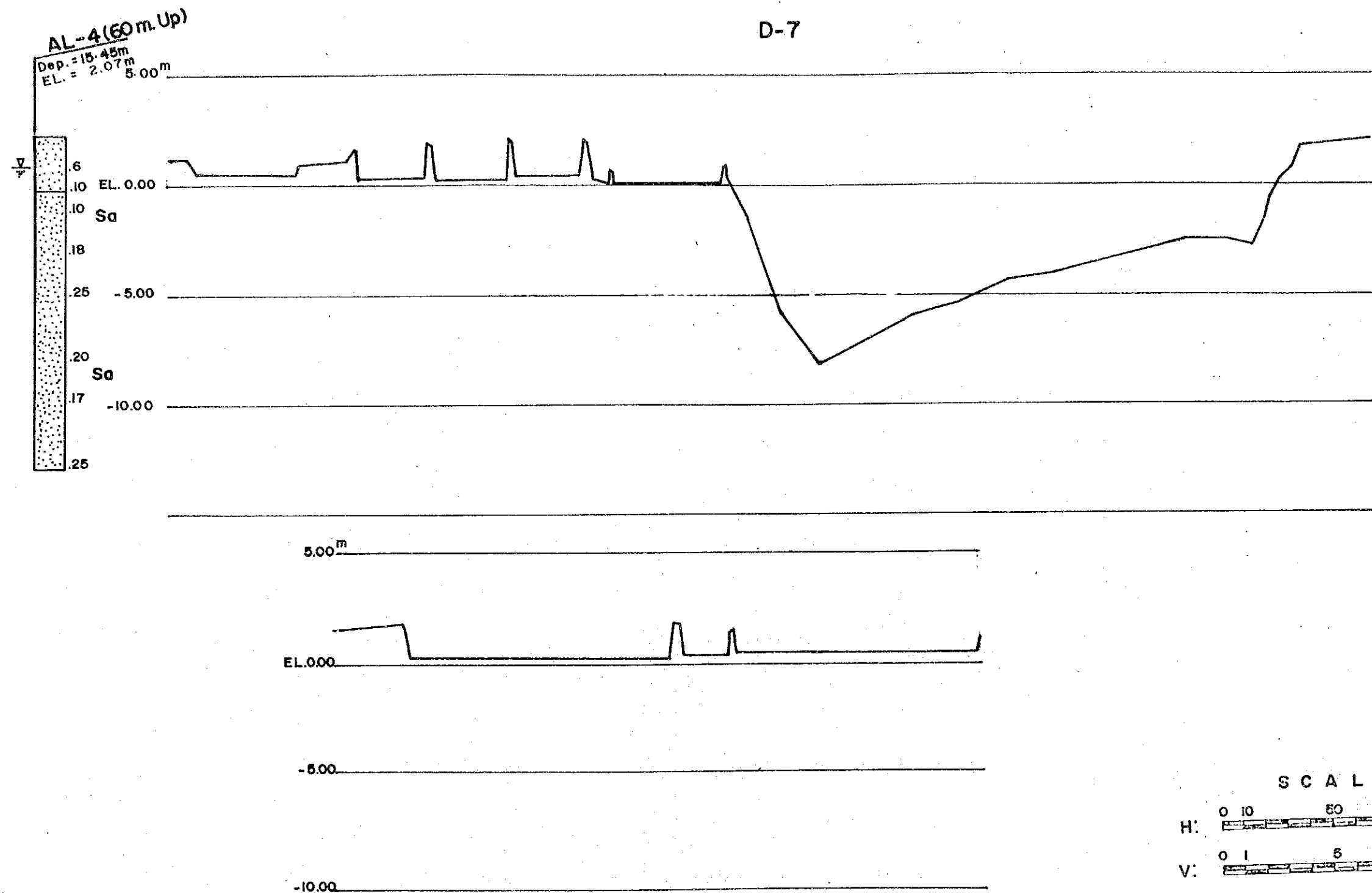
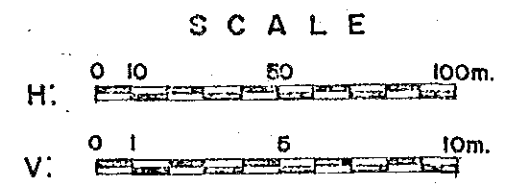
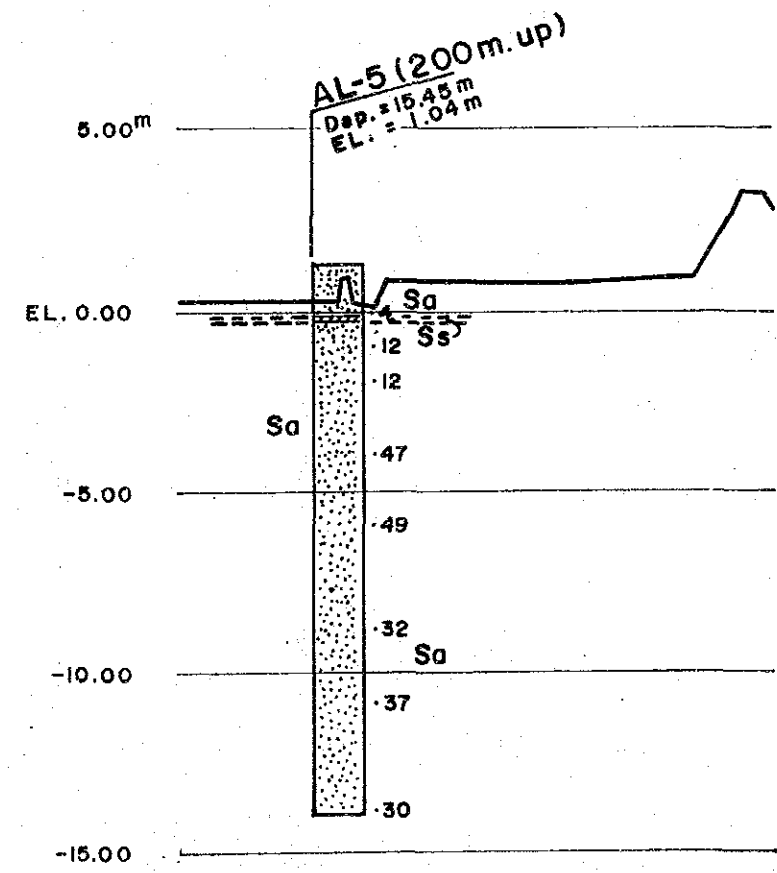
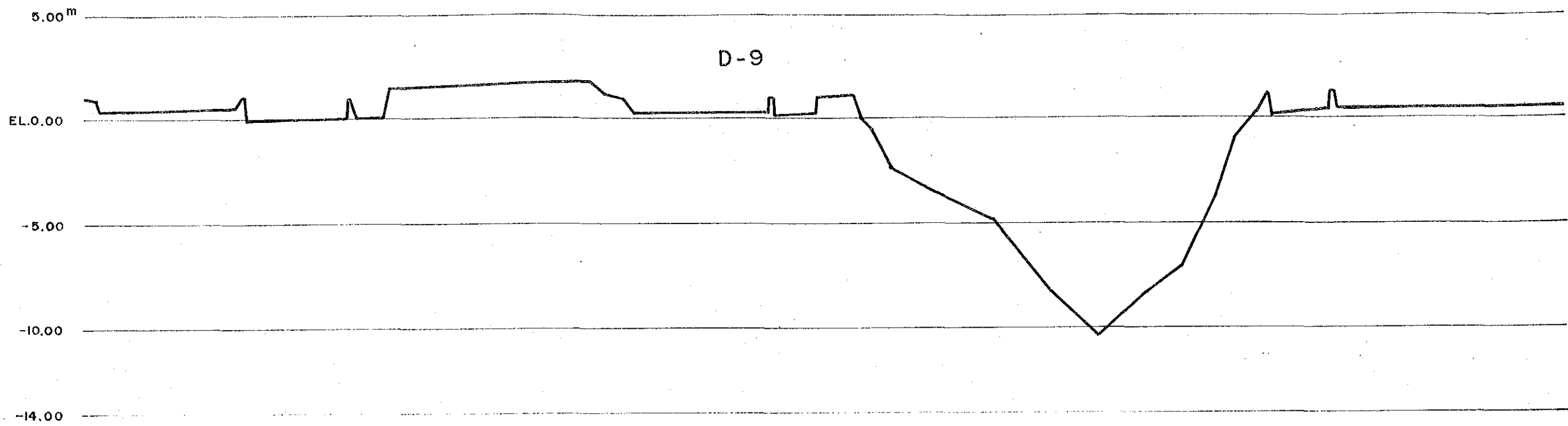


Fig. 2.6 (1/6) GEOLOGICAL CROSS SECTION (ALLIED RIVER, AL-1)



NOTE:  
 LEGEND SHOWN IN Fig. 2.6 (1/6)

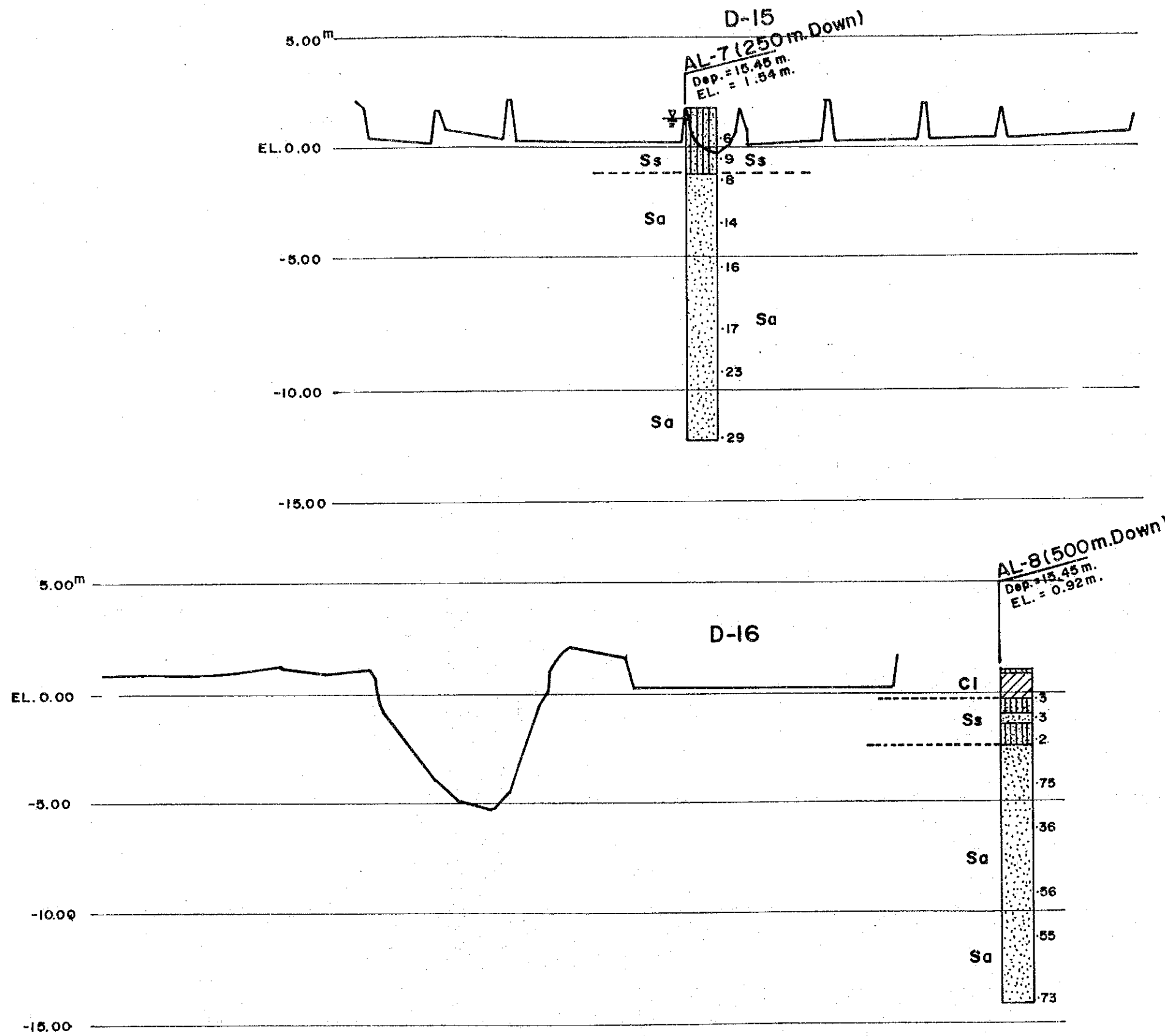
Fig. 2.6 (2/6) GEOLOGICAL CROSS SECTION ( ALLIED RIVER, AL- 4 )



NOTE:  
 LEGEND SHOWN Fig. 2.6 (1/6)

Fig. 2.6 (3/6) GEOLOGICAL CROSS SECTION ( ALLIED RIVER, AL-5)





**LEGEND:**

Bore Hole No. & Location \*

AL-1 (R) Dep. = 15.45 m. EL. = 0.35 m.

Depth (m)

Elevation (m)

Ground Water Table

N - Value

Clay/Silty Clay/Sandy Clay

Silt/Sandy Silt/Clayey Silt

Silty Sand/Clayey Sand

Sand (Fine ~ Med. ~ Coarse)

Gravel & Sand Mixture

\* LOCATION

R : Right Bank / Right Side

L : Left Bank / Left Side

Up : Upstream Side

Down : Downstream Side

DM : Dike Material

FM : Fill Material

Rd : River Deposit

CI : Clay Layer

SI : Silt Layer

Ss : Sandy Silt Layer

Sa : Sand Layer

Gr : Gravel Layer

Alluvium

Soil Layer Boundary

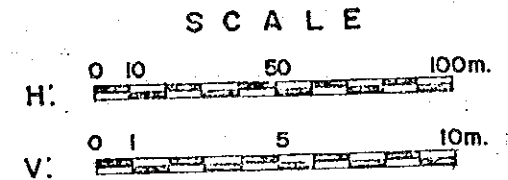
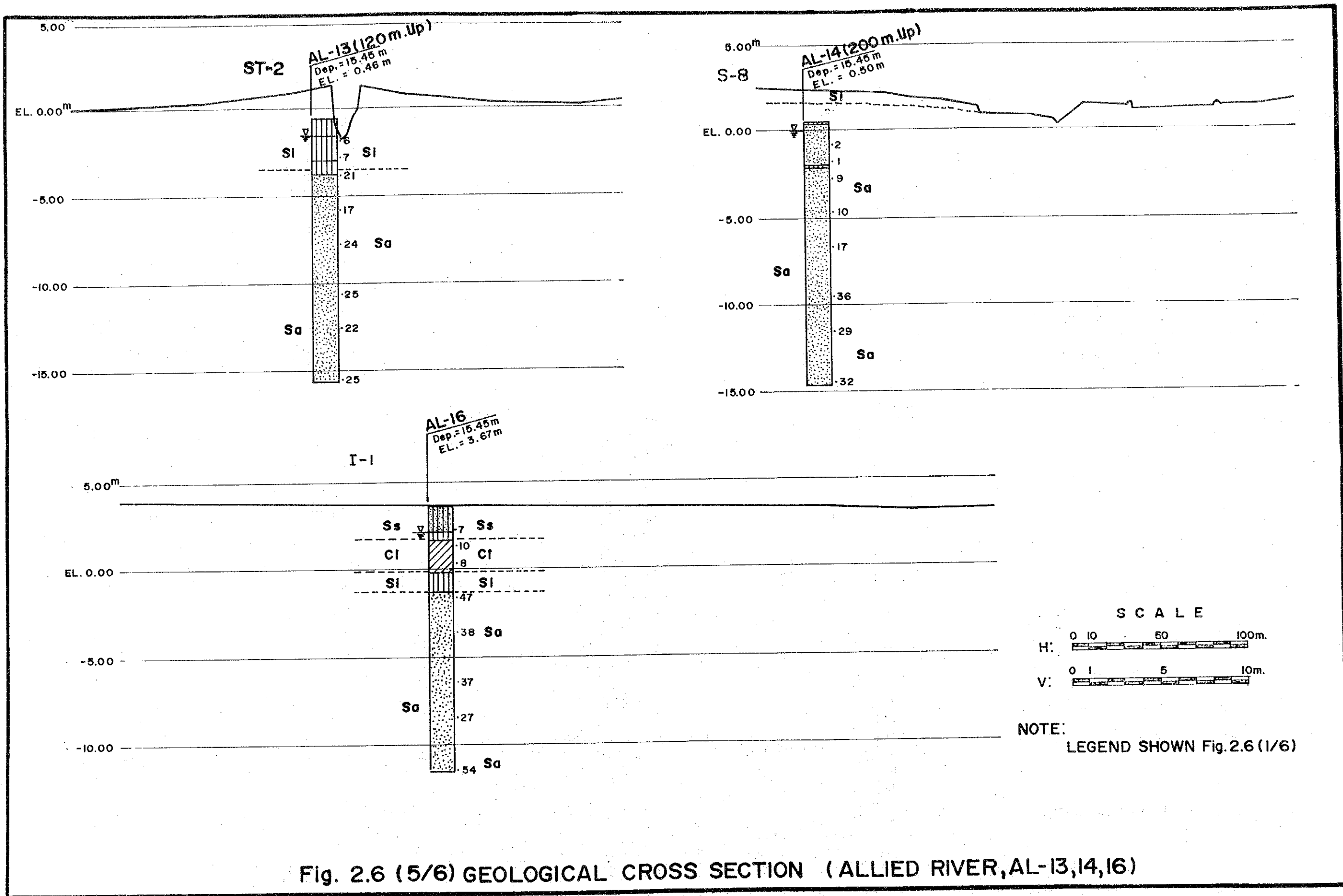
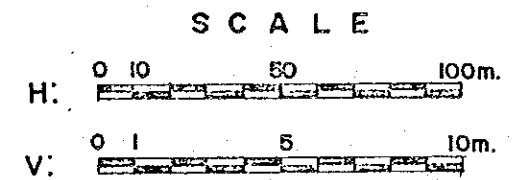
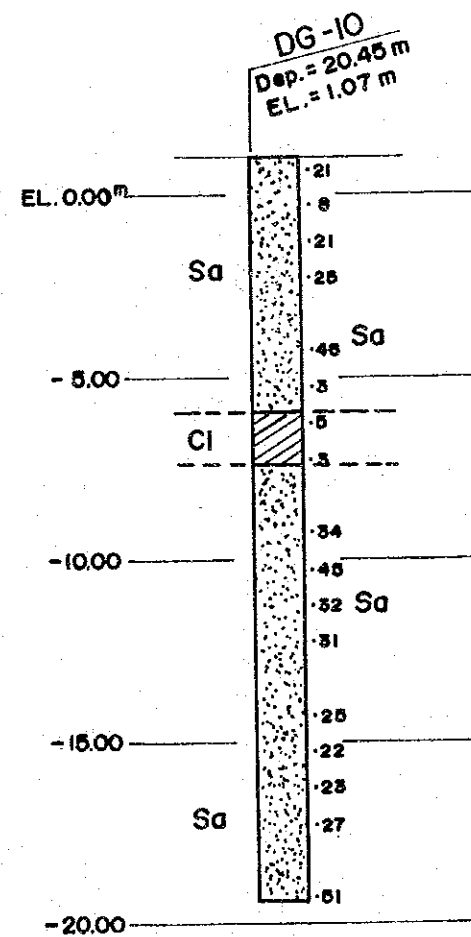
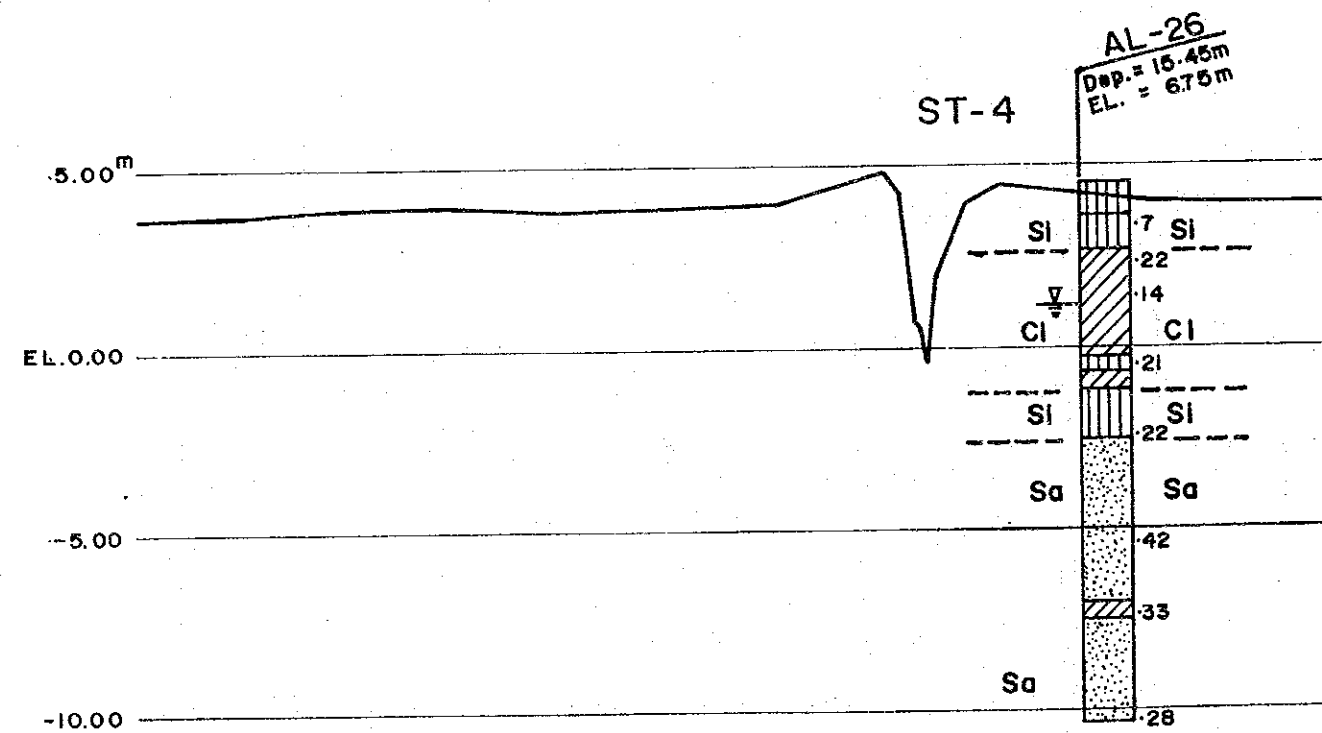
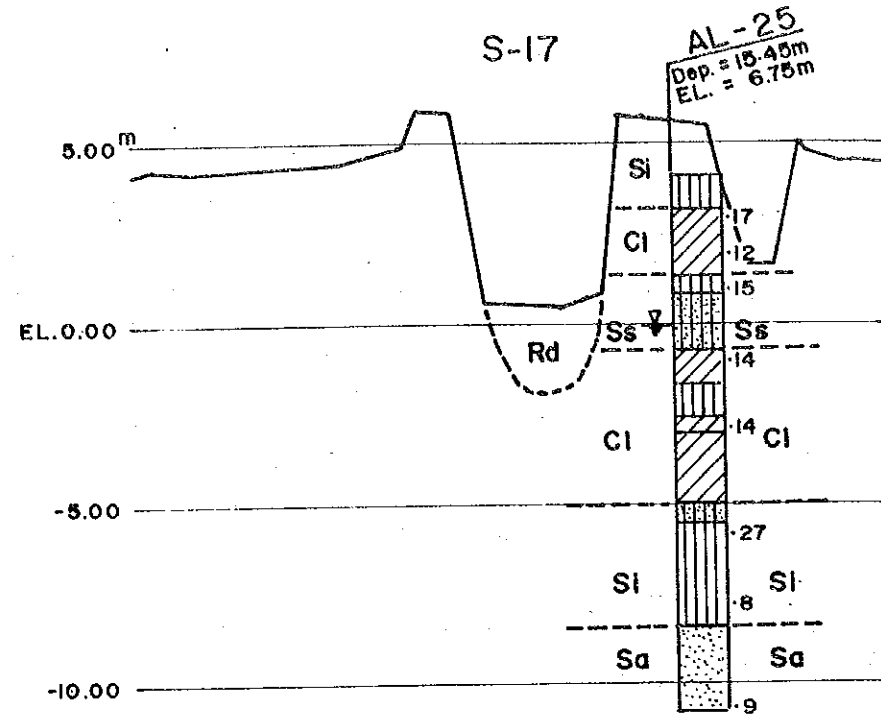
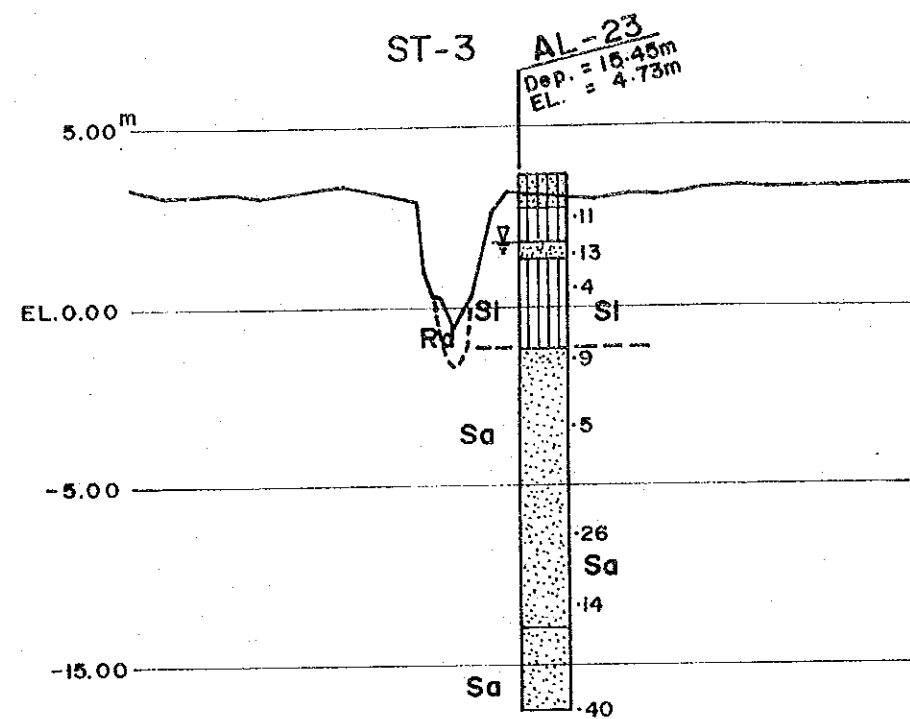


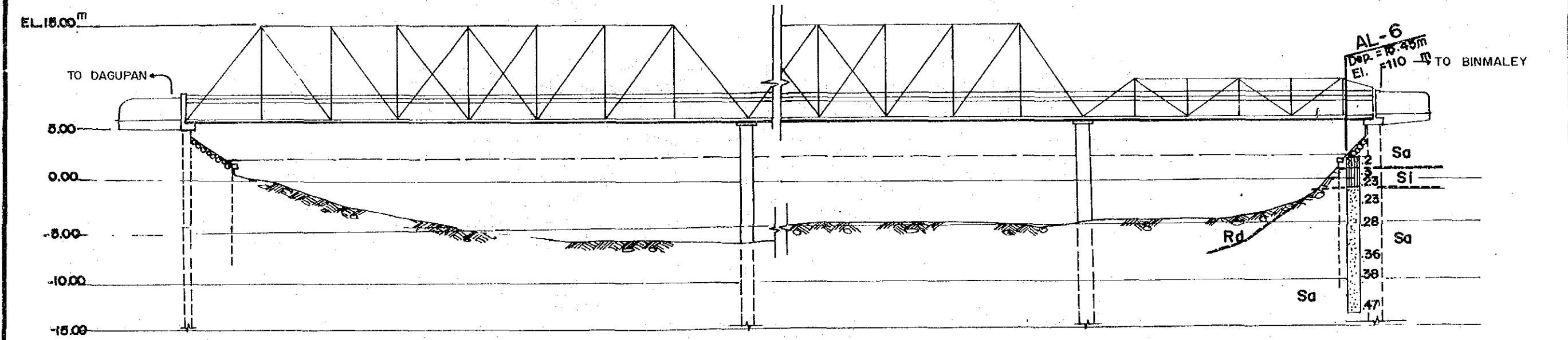
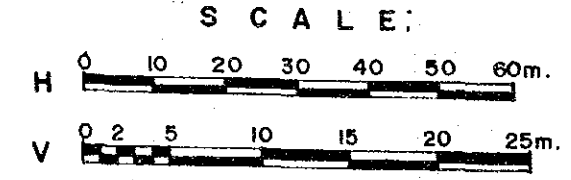
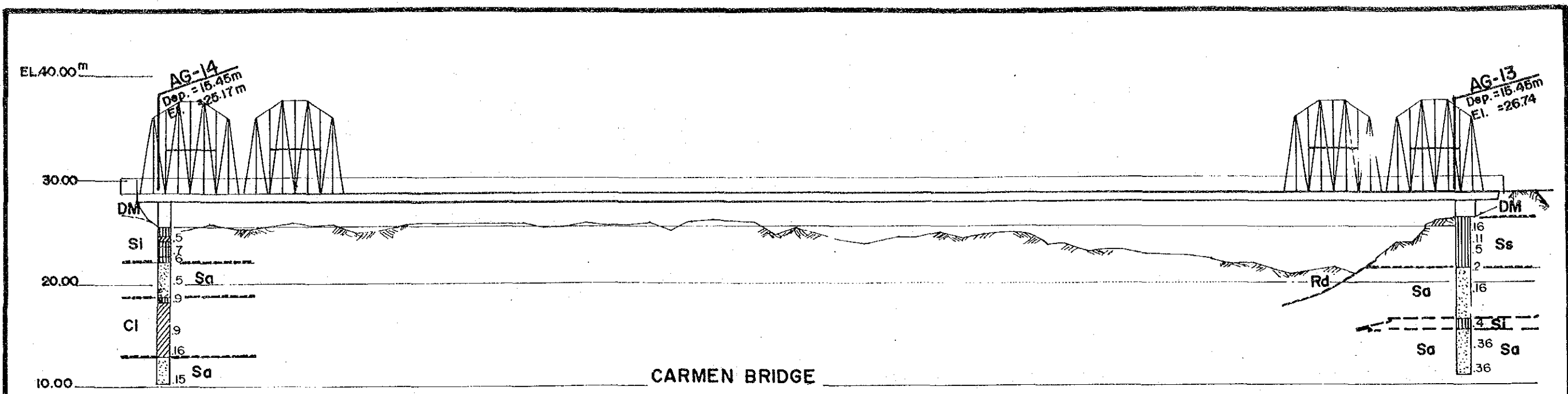
Fig. 2.6 (4/6) GEOLOGICAL CROSS SECTION (ALLIED RIVER, AL-7,8)





NOTE:  
 LEGEND SHOWN IN Fig. 2.6 (1/6)

Fig. 2.6 (6/6) GEOLOGICAL CROSS SECTION ( ALLIED RIVER, AL-23,25,26, DG-10 )



NOTE:  
LEGEND SHOWN IN FIG. 2.7 (5/6)

SCALE:  
0 2 5 10 15 20 25 m.

H: & V:

Fig. 2.7 (1/6) GEOLOGICAL CROSS SECTION OF BRIDGE (AG-13, AG-14, AL-6)

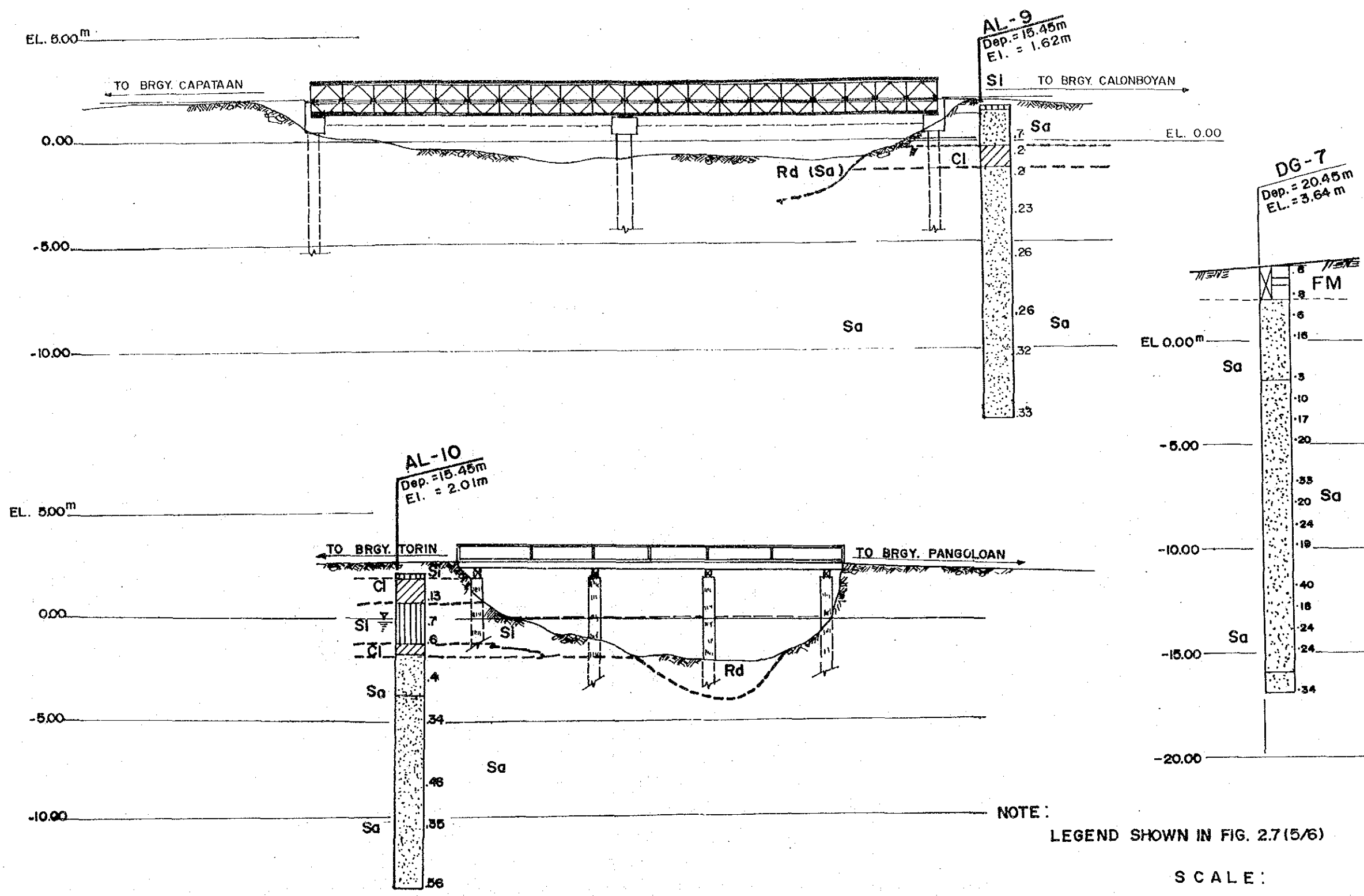


Fig. 2.7 (2/6) GEOLOGICAL CROSS SECTION OF BRIDGE (AL-9 · AL-10, DG-7)

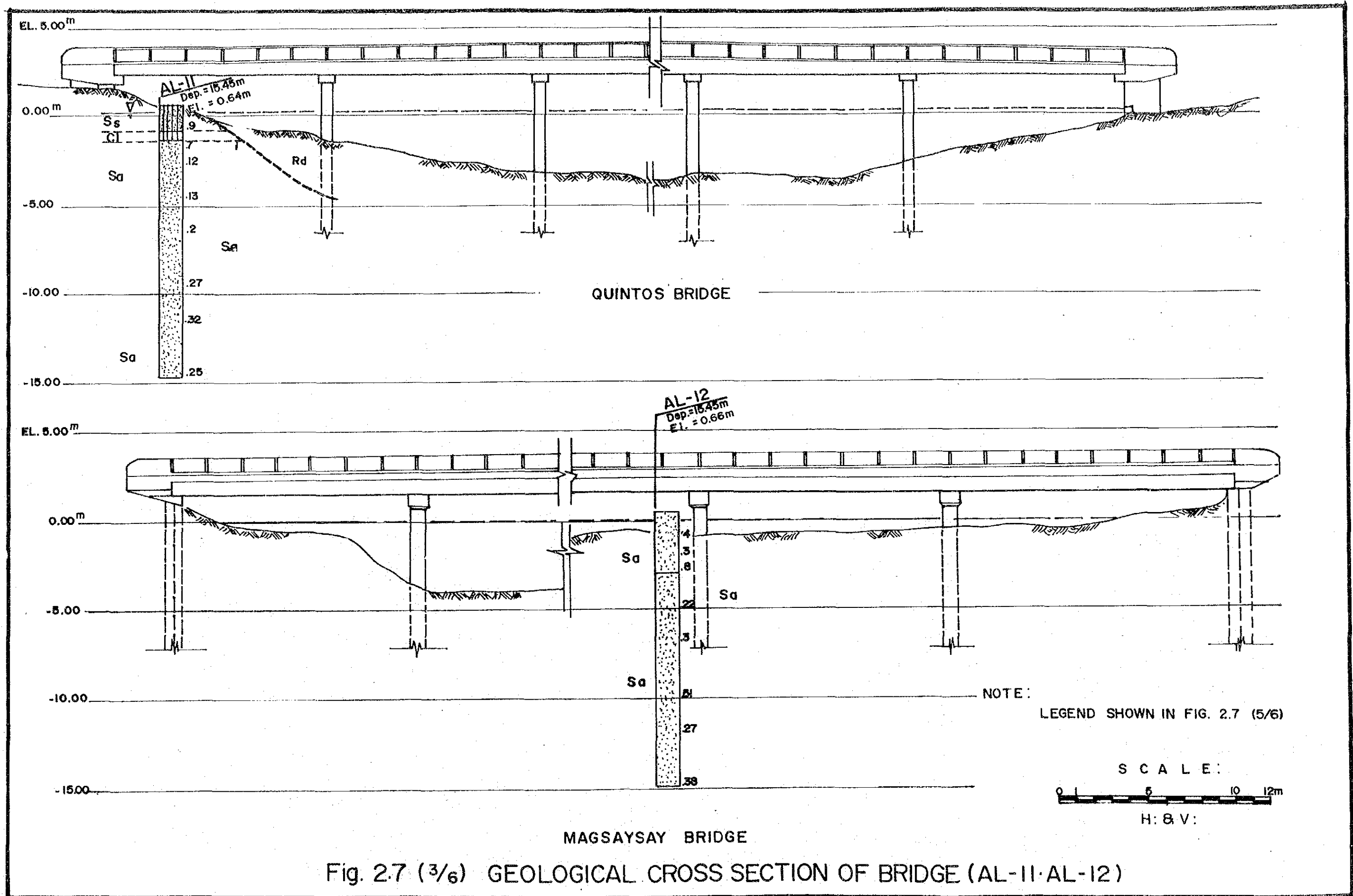


Fig. 2.7 (3/6) GEOLOGICAL CROSS SECTION OF BRIDGE (AL-11·AL-12)

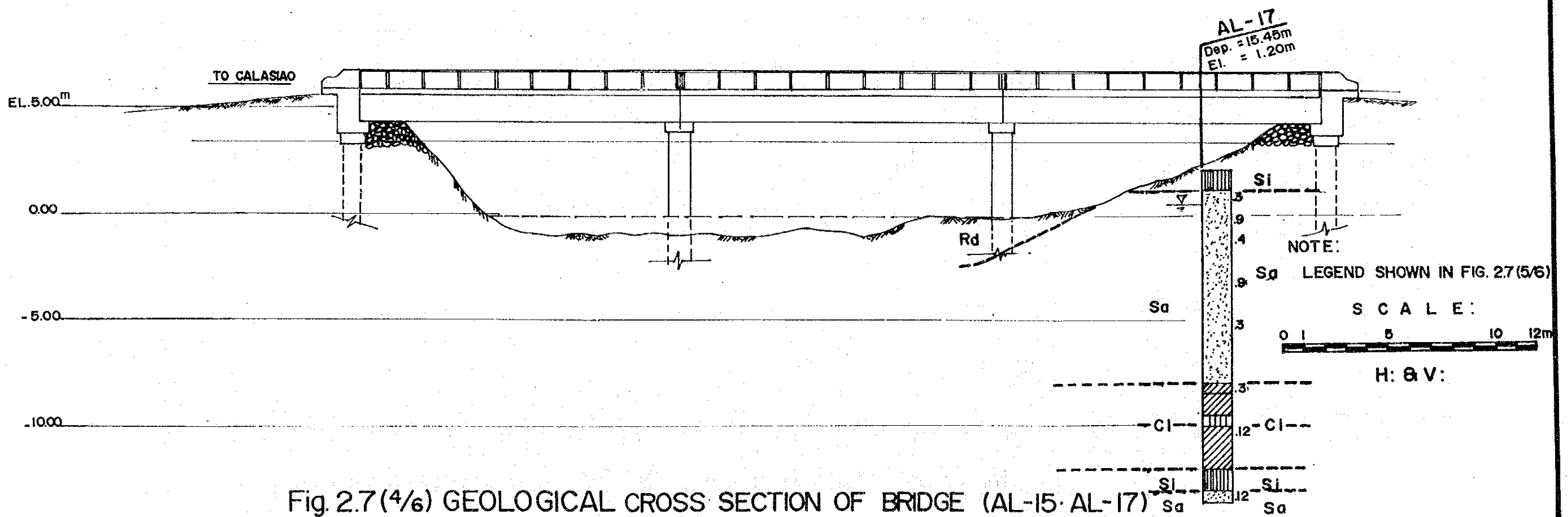
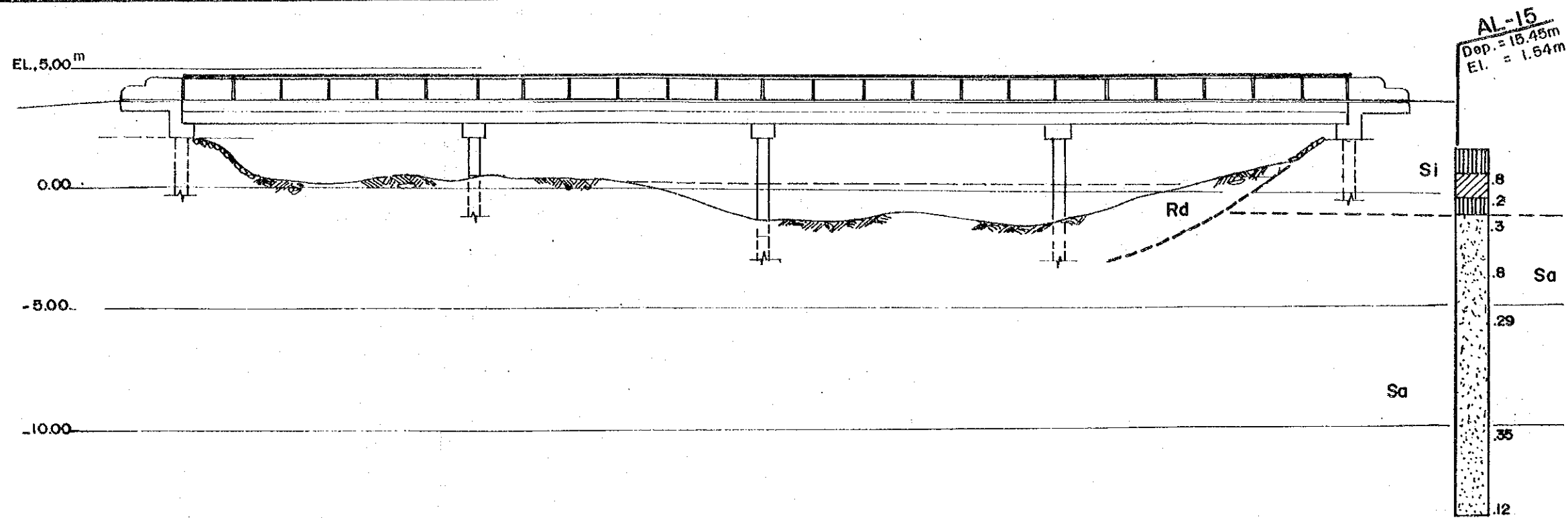
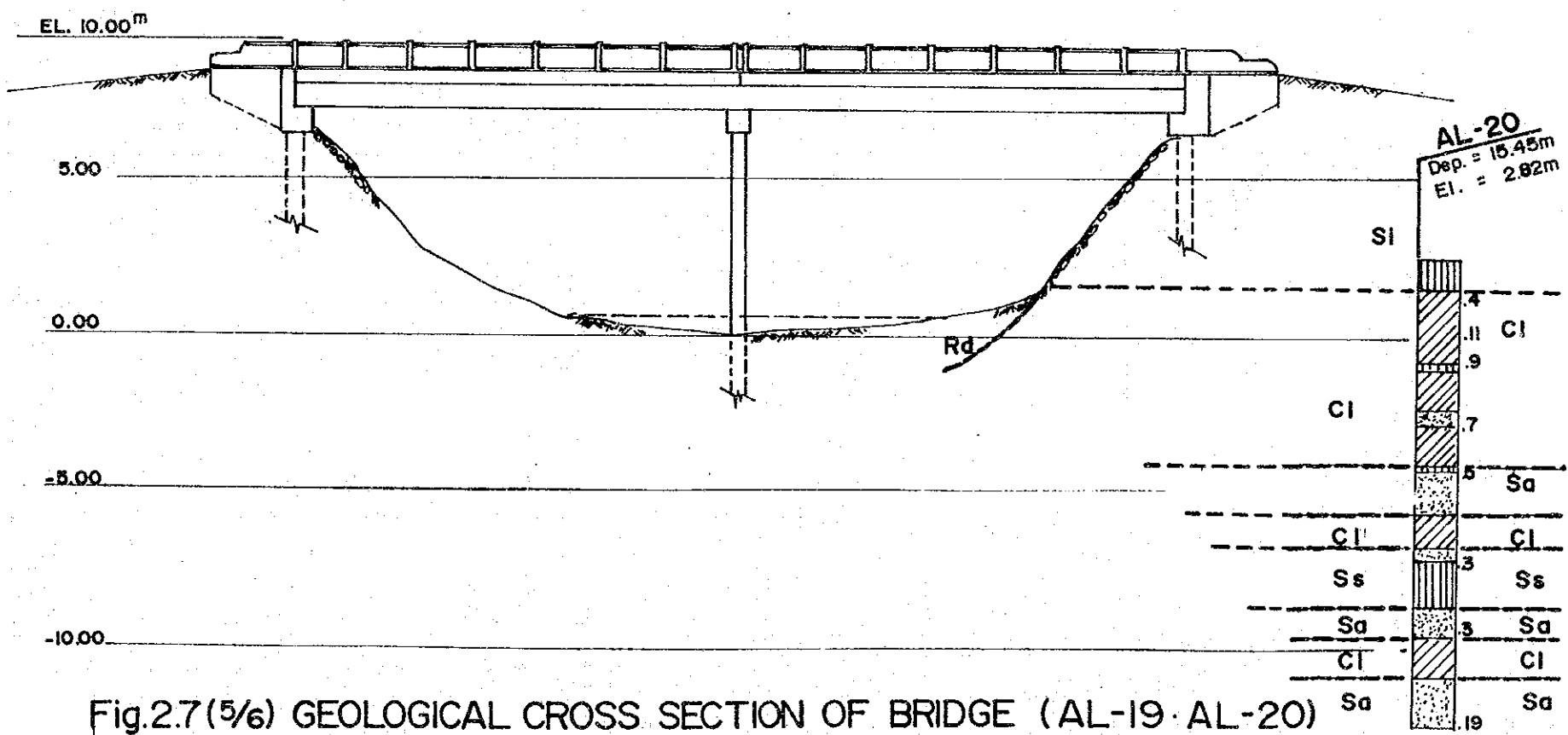
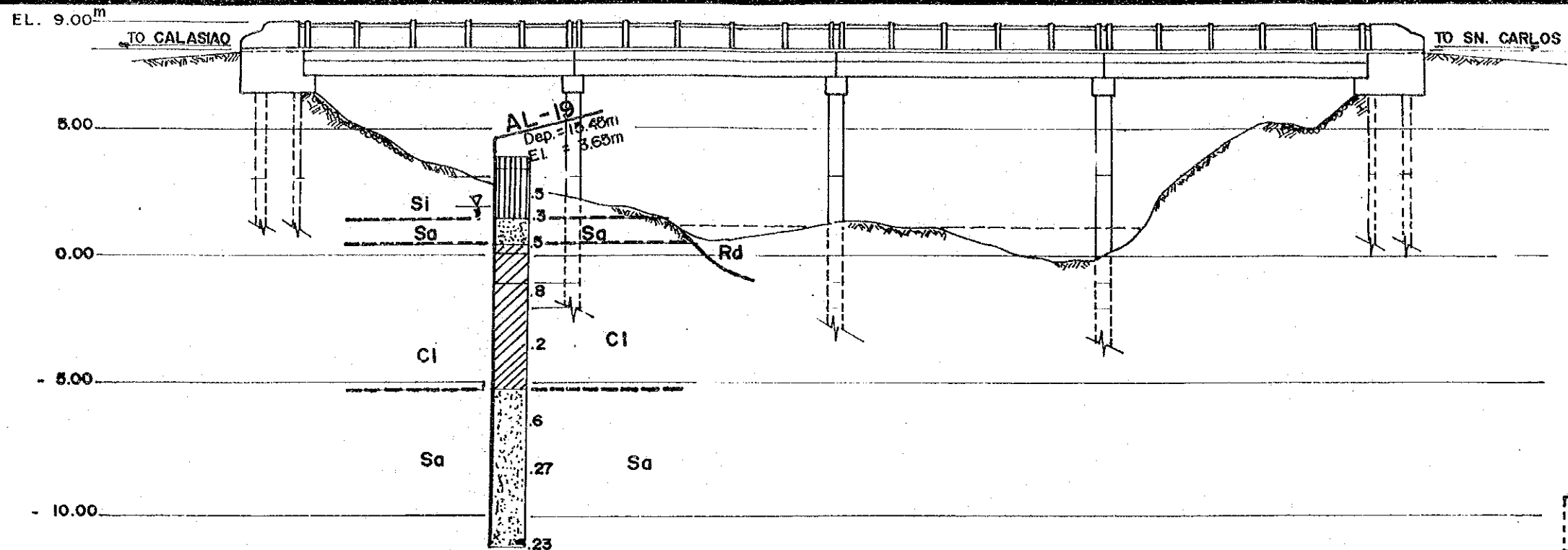


Fig. 2.7(4/6) GEOLOGICAL CROSS SECTION OF BRIDGE (AL-15-AL-17)



**LEGEND:**

Bore Hole No. \*  
 \* Location \*

AL-1 (R)  
 Dep. = 15.45m  
 El. = 0.35m

--- Depth (m)  
 --- Elevation (m)

--- Ground Water Table  
 --- N-Value

	0.2	Clay/Silty Clay/Sandy Clay
	0.3	Silt/Sandy Silt/Clayey Silt
	0.5	Silty Sand/Clayey Sand
	0.8	Sand (Fine Med. Coarse)
	2.23	Gravel & Sand Mixture

\* LOCATION

R : Right Bank / Right Side  
 L : Left Bank / Left Side  
 Up : Upstream Side  
 Down : Downstream Side

	DM	Dike Material
	FM	Fill Material
	Rd	River Deposit
	Cl	Clay Layer
	Sl	Silt Layer
	Ss	Sandy Silt Layer
	Sa	Sand Layer
	Gr	Gravel Layer

} Alluvium

--- Soil Layer Boundary

**SCALE:**

0 1 5 10 12m

H: & V:

Fig.2.7(5/6) GEOLOGICAL CROSS SECTION OF BRIDGE (AL-19 · AL-20)



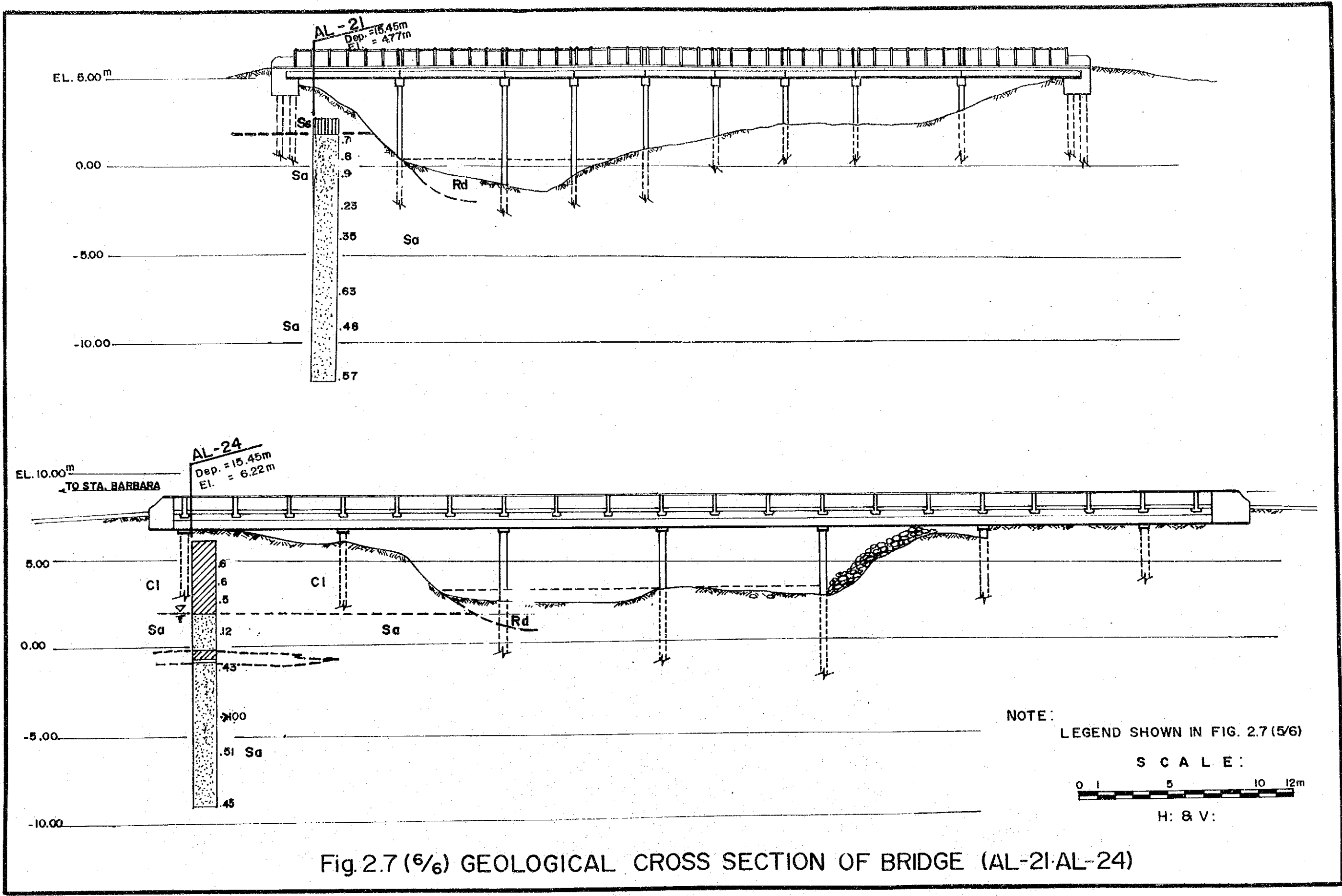
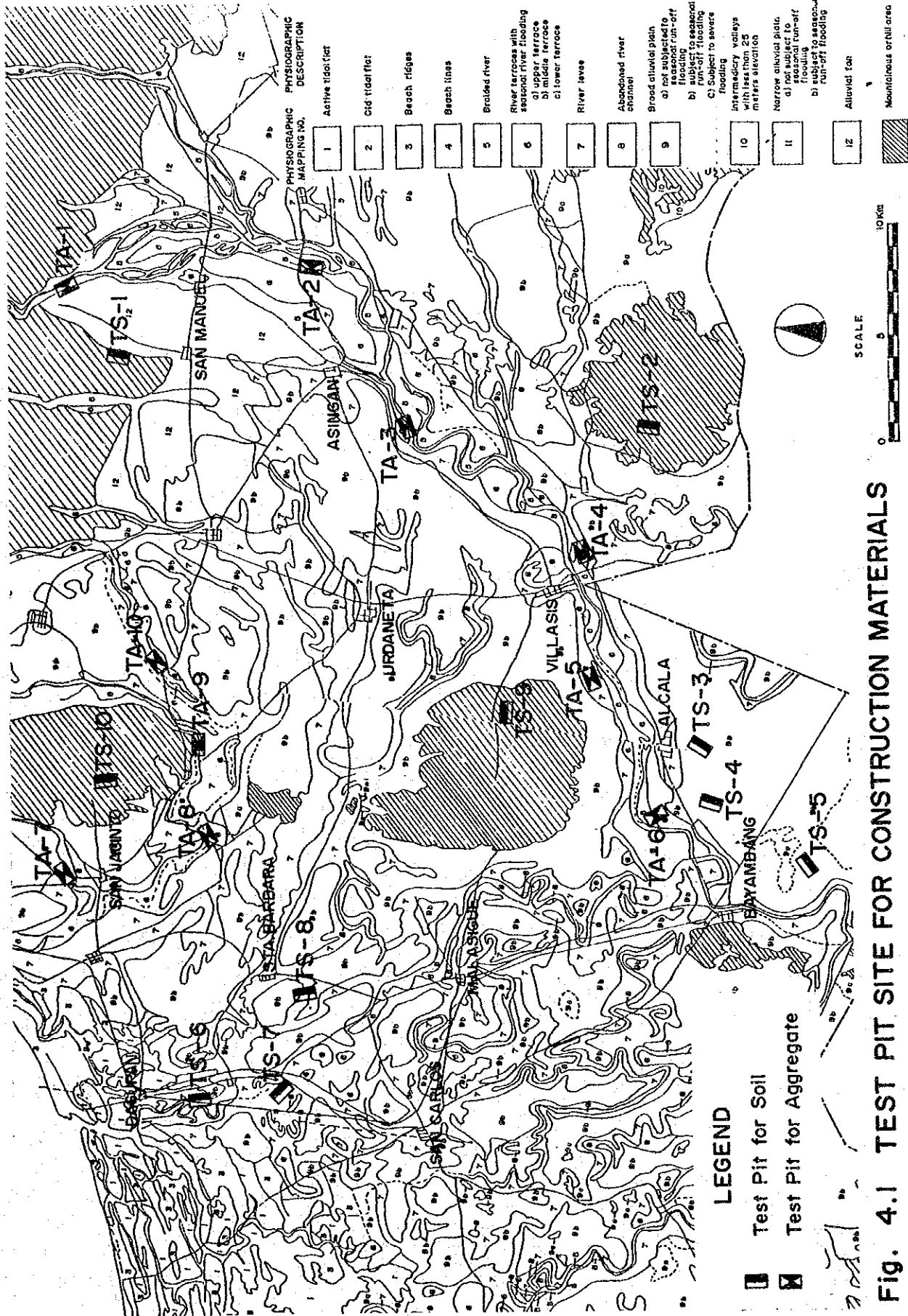
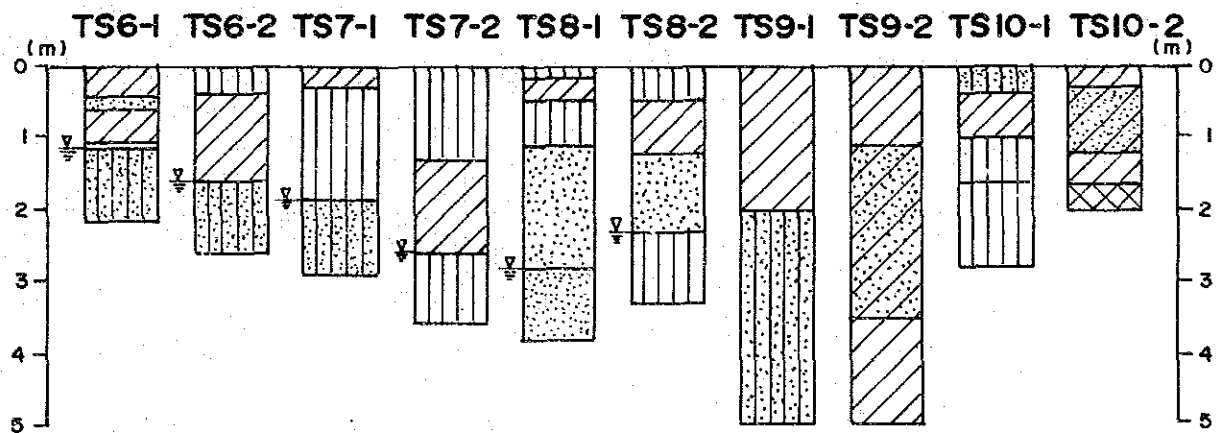
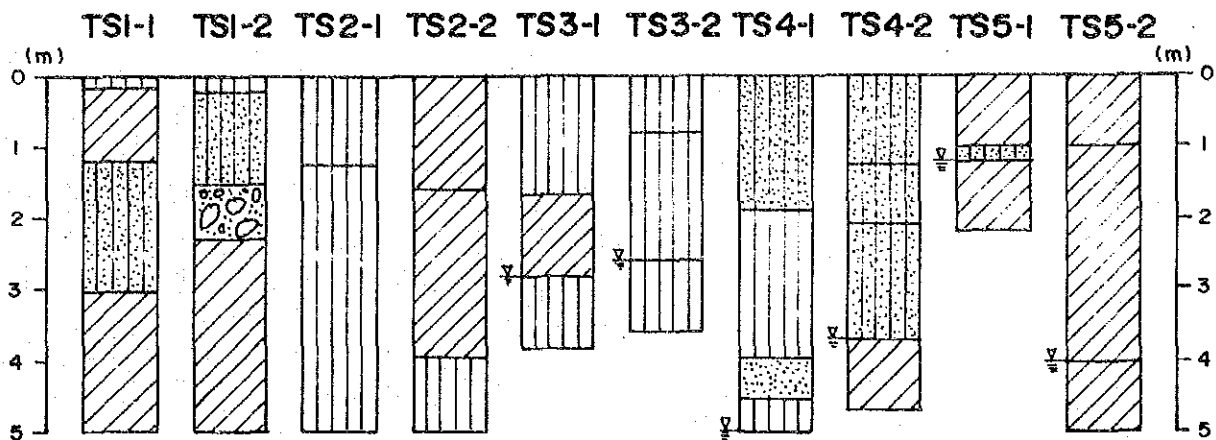


Fig.2.7 (6/6) GEOLOGICAL CROSS SECTION OF BRIDGE (AL-21-AL-24)



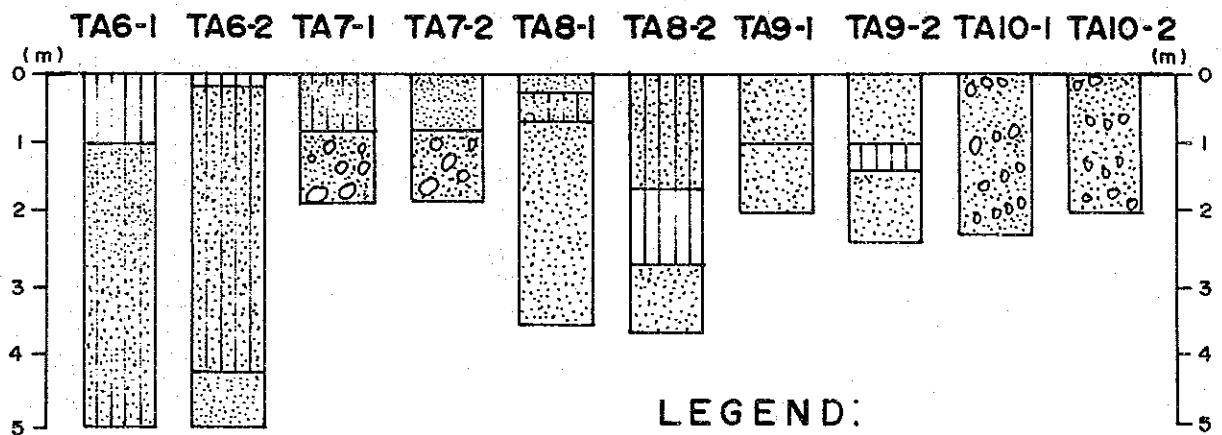
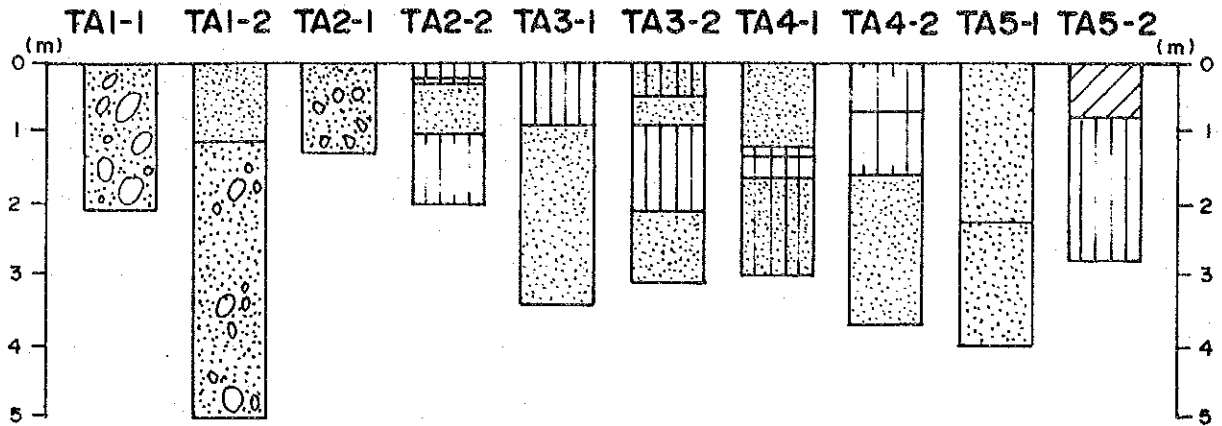
**Fig. 4.1 TEST PIT SITE FOR CONSTRUCTION MATERIALS**









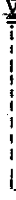


NOTE:  
LEGEND SHOWN Fig. 4.3

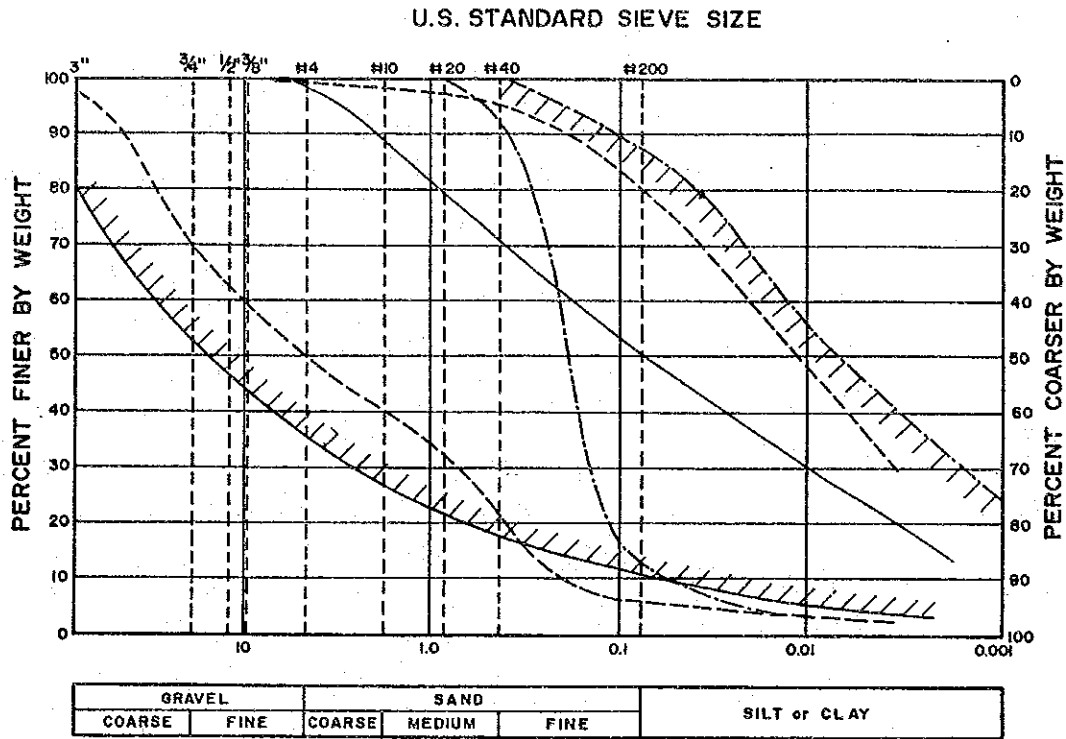
Fig. 4.2 TEST PIT LOG ( FOR SOIL )



**LEGEND:**

- TS 1 : Test Pit No.
-  : Clay / Silty / Sandy Clay
  -  : Silt / Sandy Silt / Clayey Silt
  -  : Silty Sand / Clayey Sand
  -  : Sand (Fine ~ Med. ~ Coarse)
  -  : Gravel & Sand Mixture
  -  : Rock (Silt Stone)
  -  : Water Table

**Fig. 4.3 TEST PIT LOG (FOR AGGREGATE)**



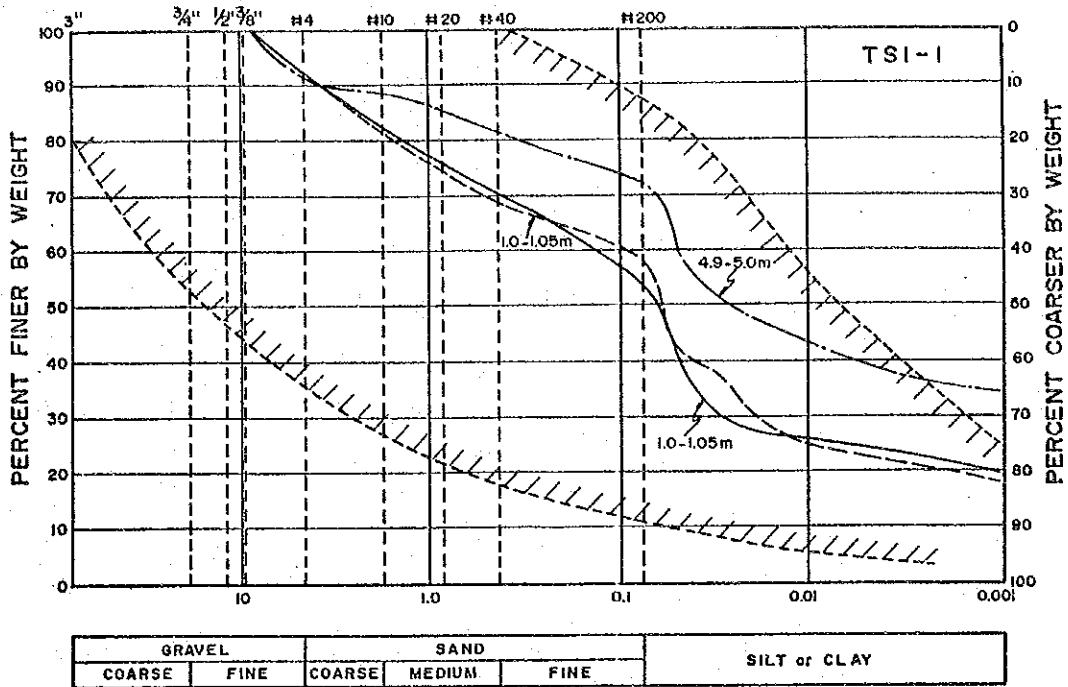
**LEGEND**

Grain Size Distribution Range

- : of Impervious Material for Earth Dam
- : of Impervious Material for Earth Dam  
( Bureau of Reclamation, U.S. )
- : of Existing Dike Material  
( CL - SM, Japan )
- : Adopted Range for Dike Material  
on the Study

Fig. 4.4 CRITERION FOR GRAIN SIZE DISTRIBUTION

U.S. STANDARD SIEVE SIZE



U.S. STANDARD SIEVE SIZE

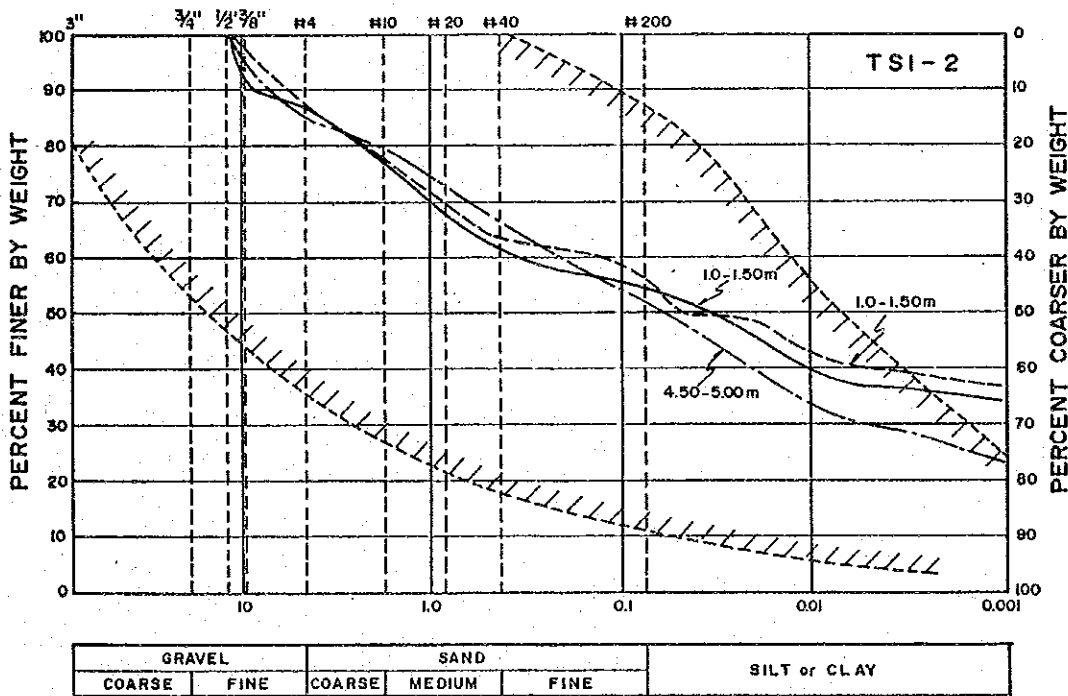


Fig.4.5 (1/10) GRAIN SIZE DISTRIBUTION OF SOIL (TSI)

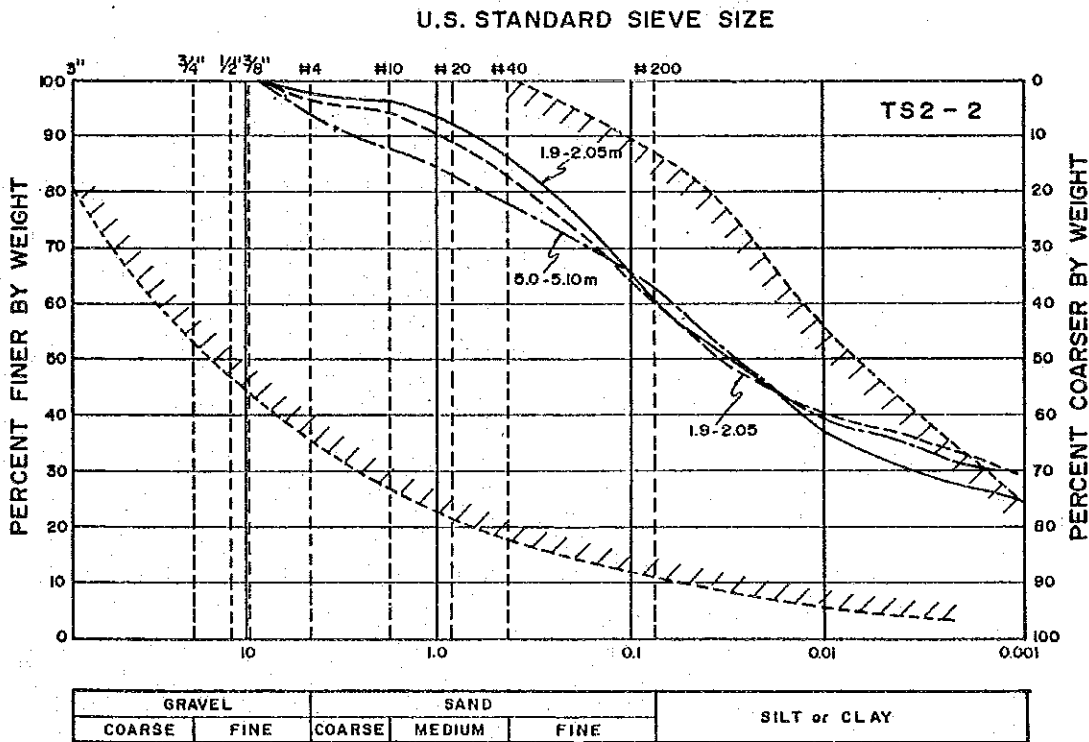
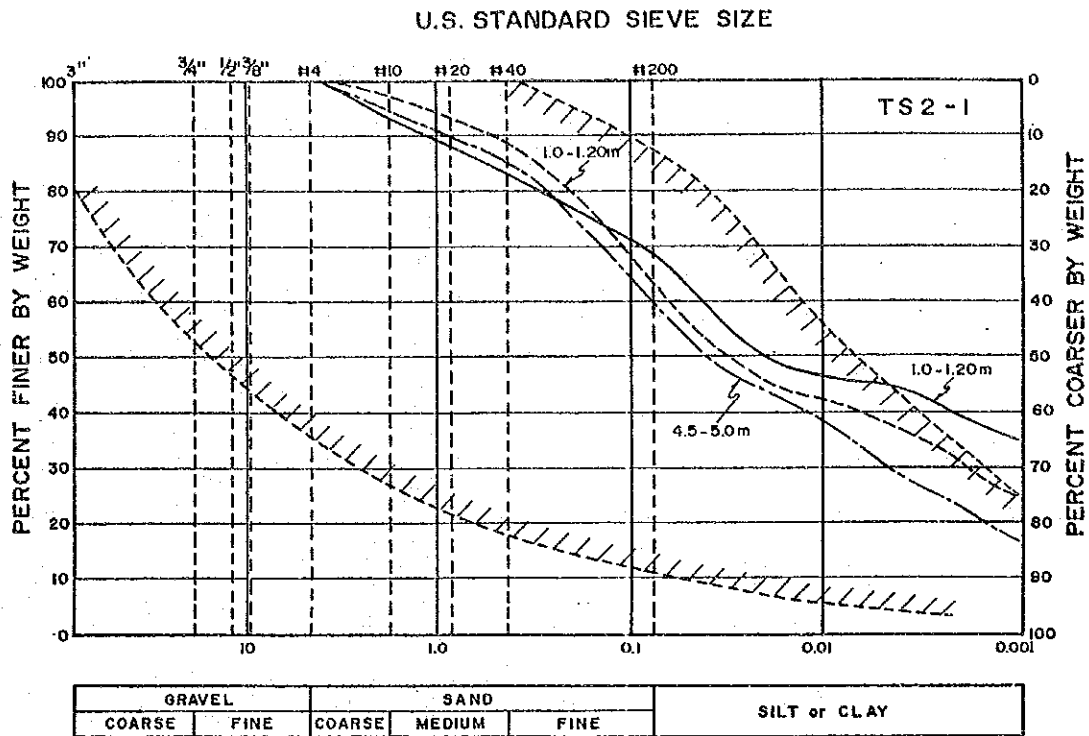


Fig.4.5 (2/10) GRAIN SIZE DISTRIBUTION OF SOIL (TS2)



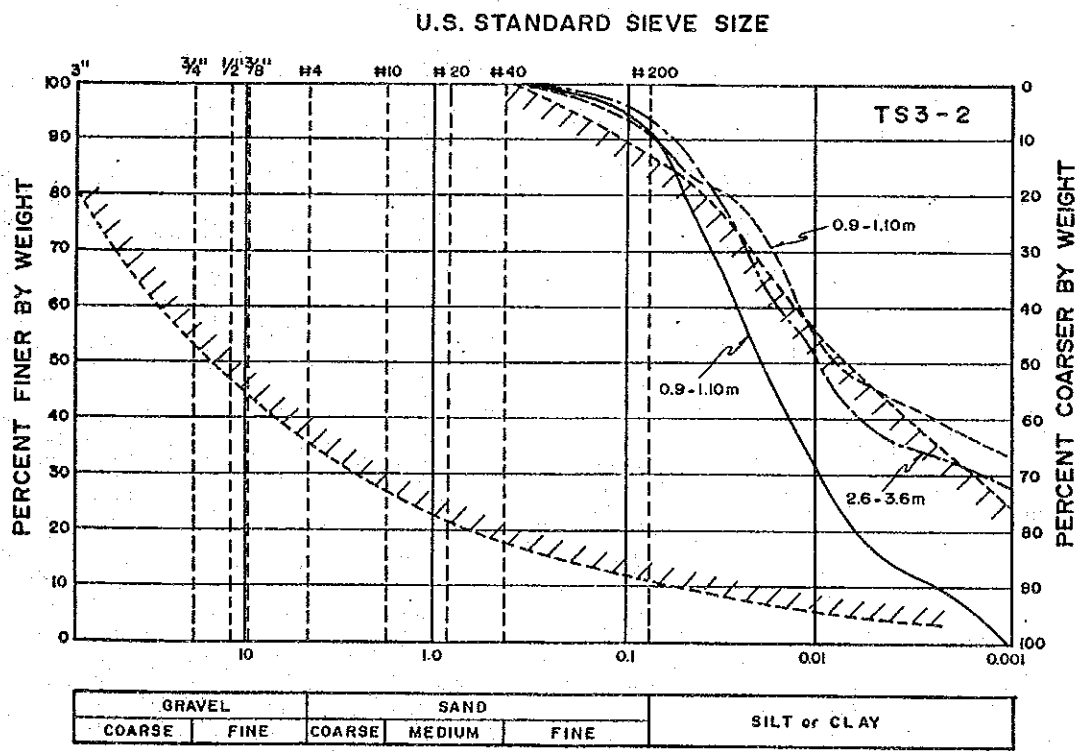
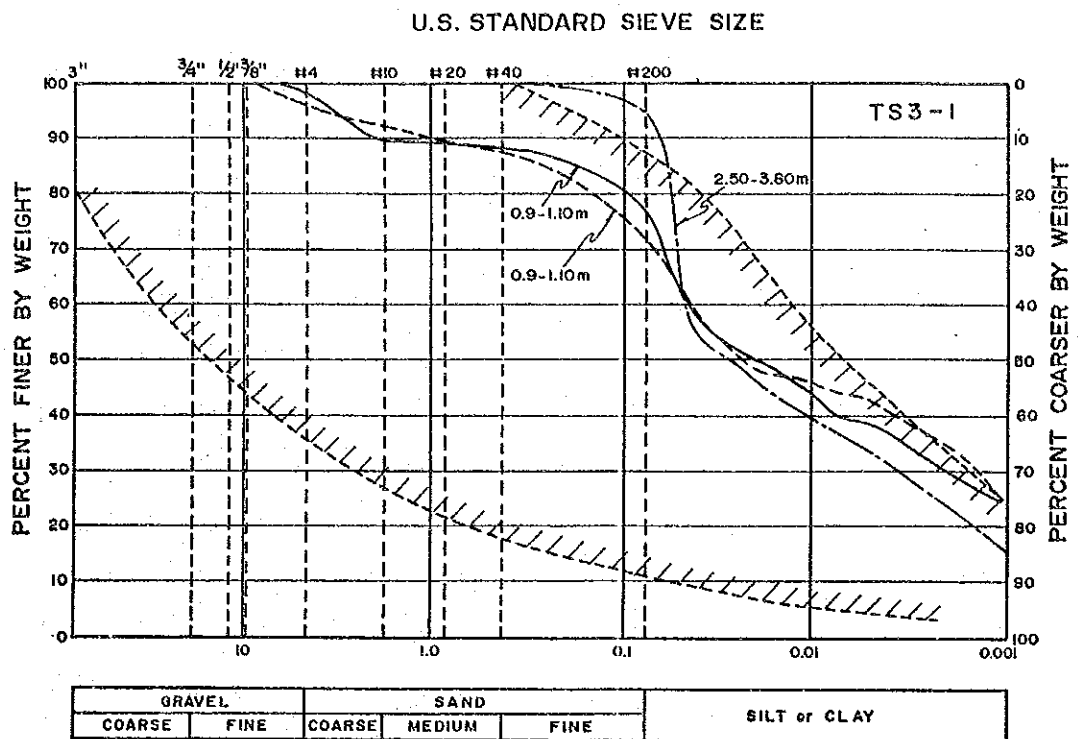


Fig.4.5 (3/10) GRAIN SIZE DISTRIBUTION OF SOIL (TS3)

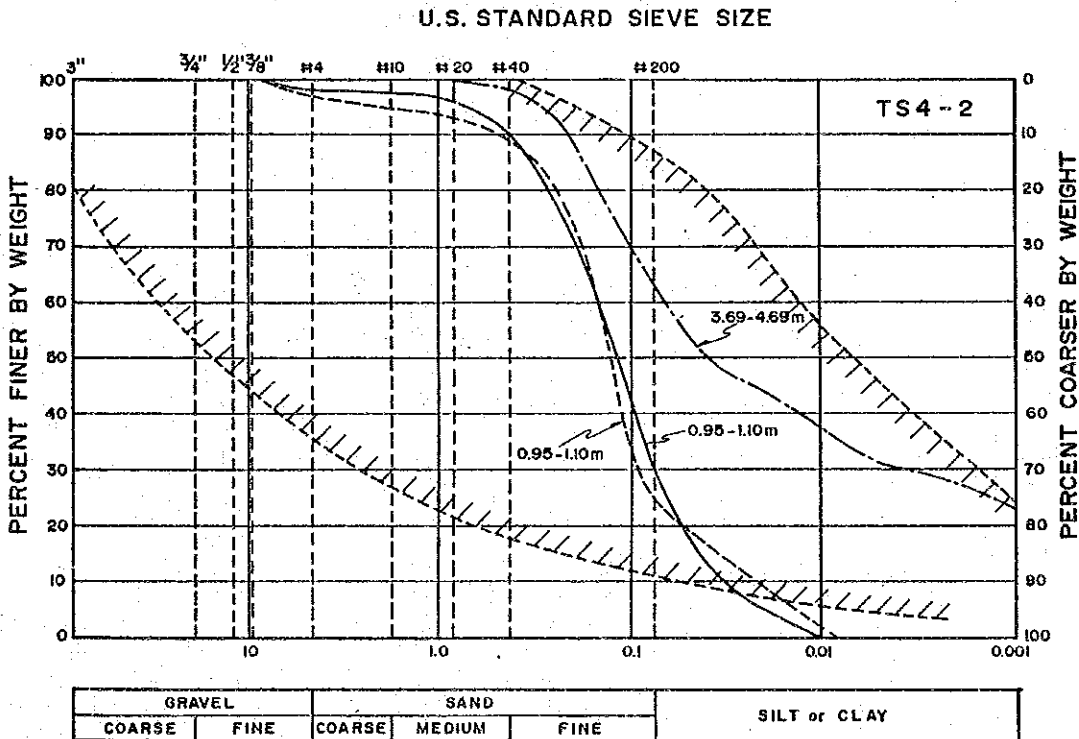
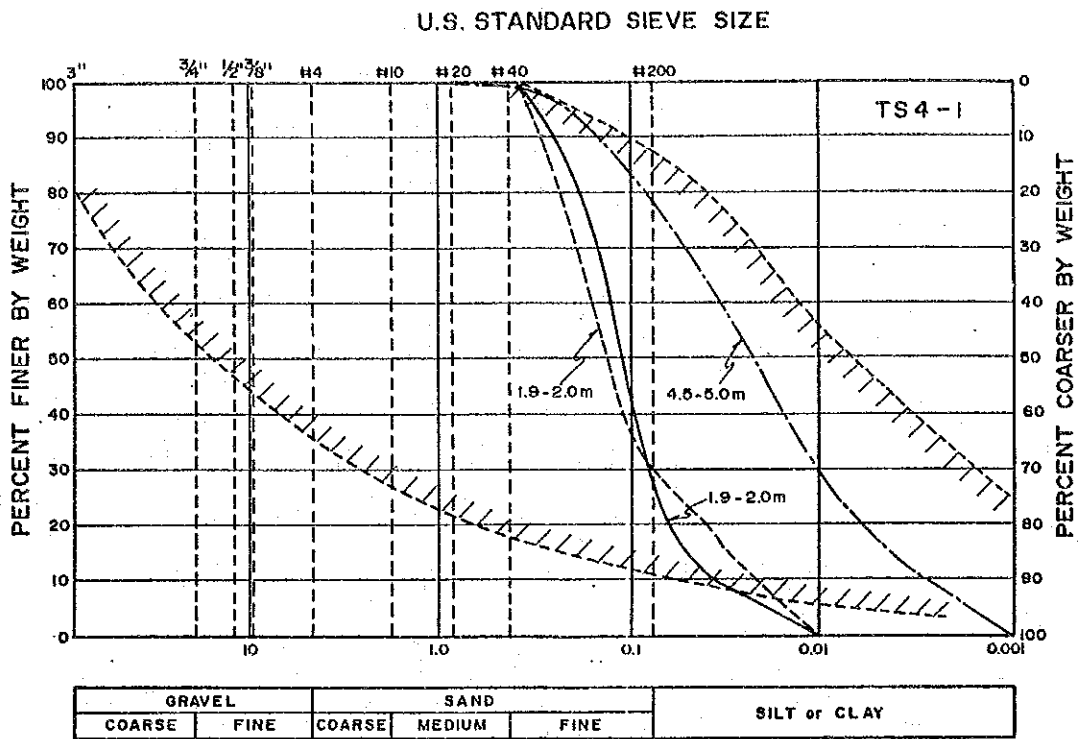


Fig. 4.5 (4/10) GRAIN SIZE DISTRIBUTION OF SOIL (TS4)

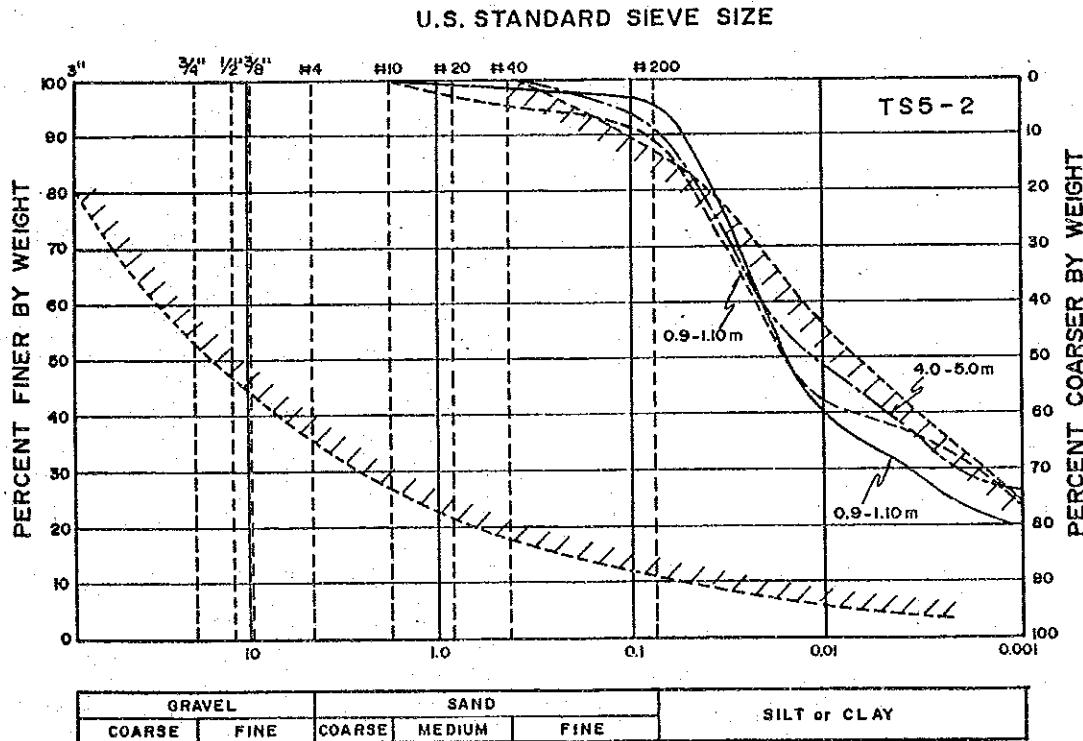
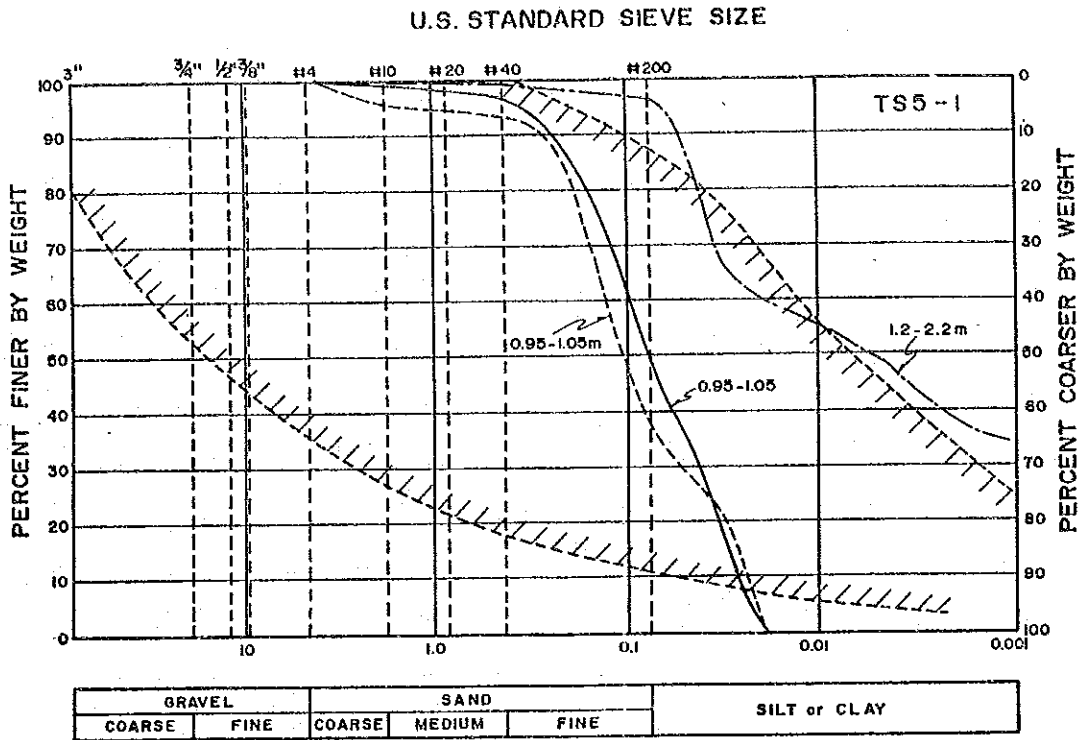


Fig. 4.5 (5/10) GRAIN SIZE DISTRIBUTION OF SOIL (TS5)

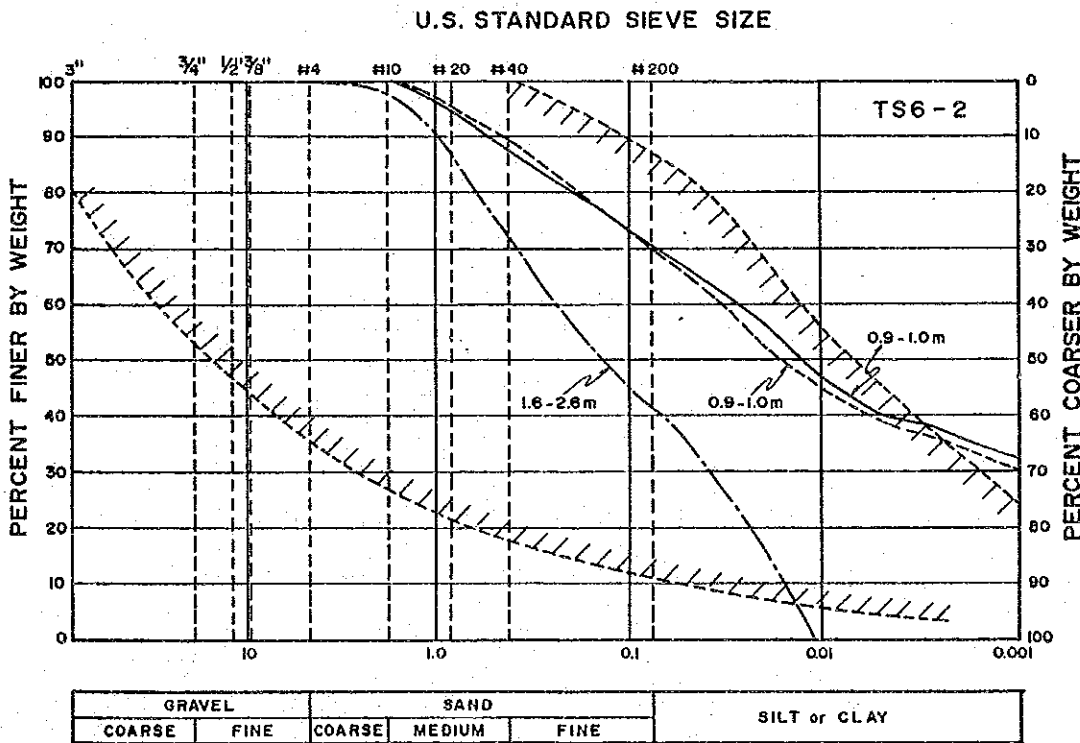
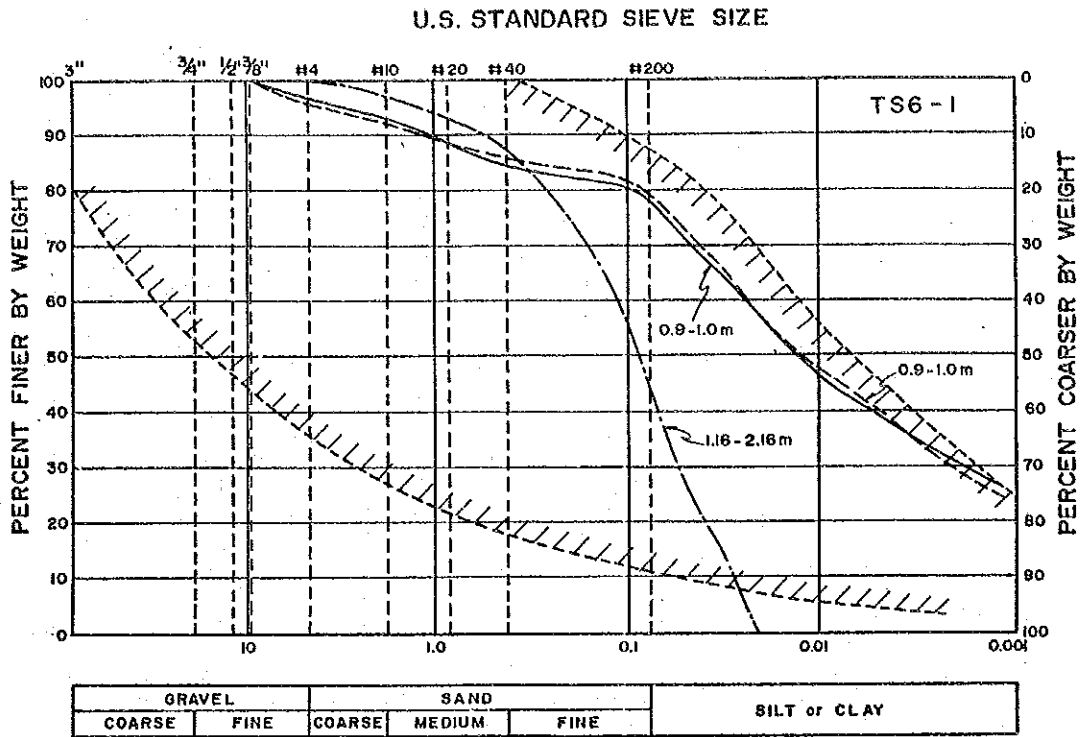


Fig.4.5 (6/10) GRAIN SIZE DISTRIBUTION OF SOIL (TS6)

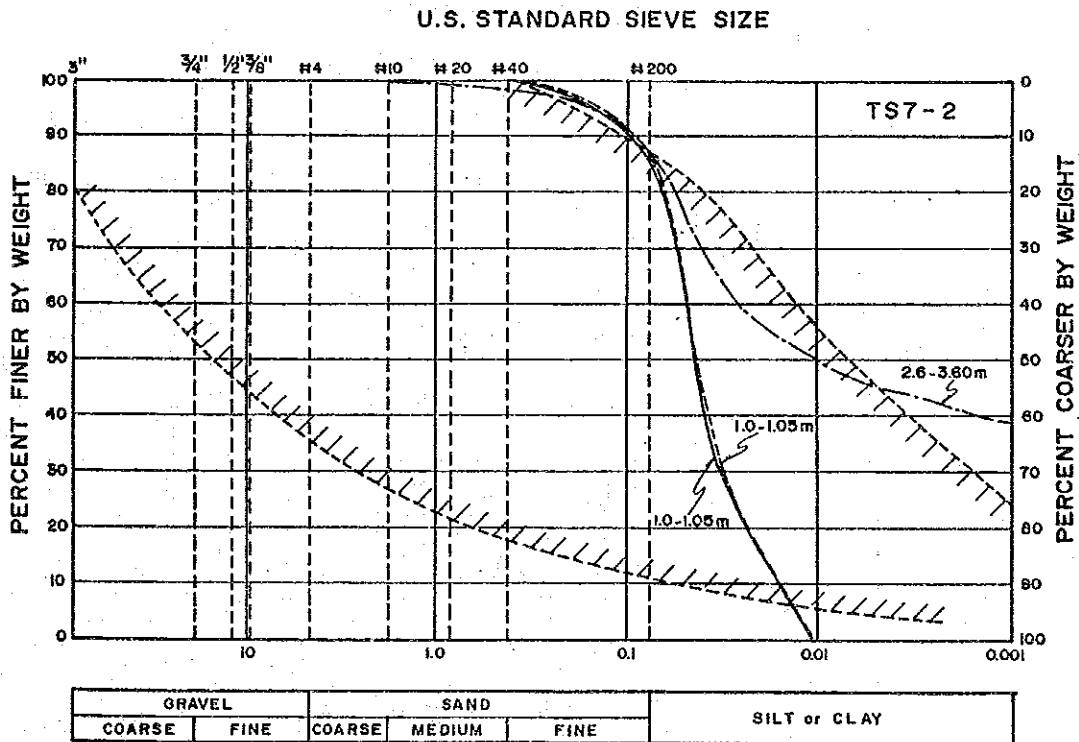
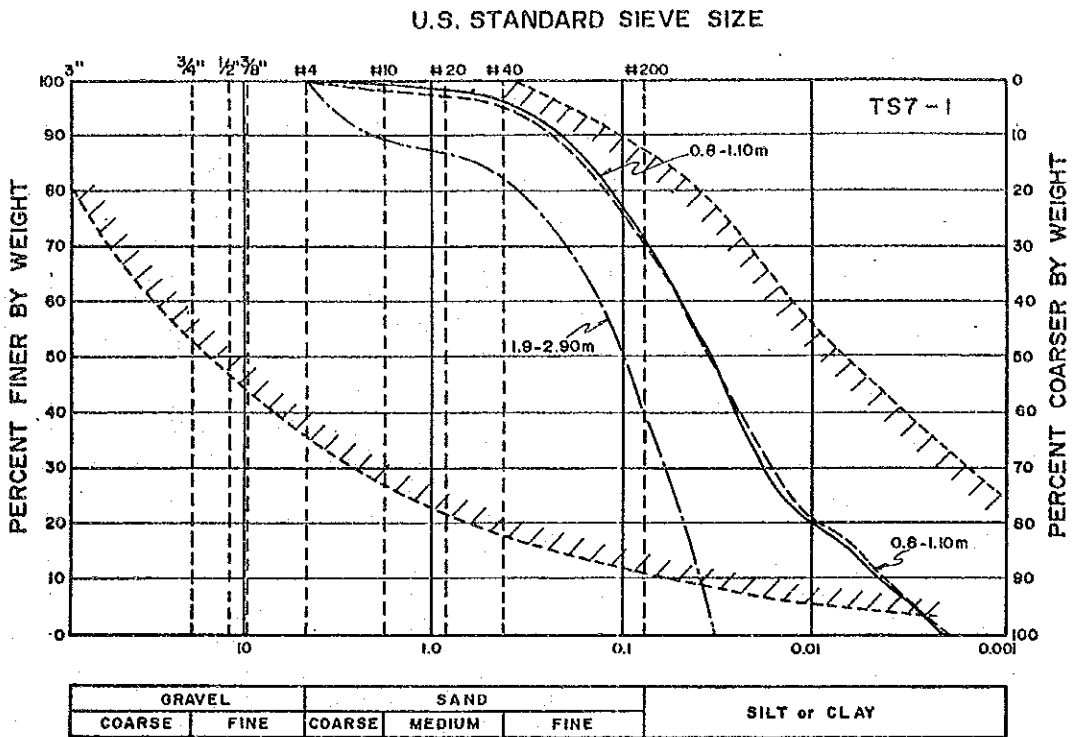


Fig.4.5 (7/a) GRAIN SIZE DISTRIBUTION OF SOIL (TS7)

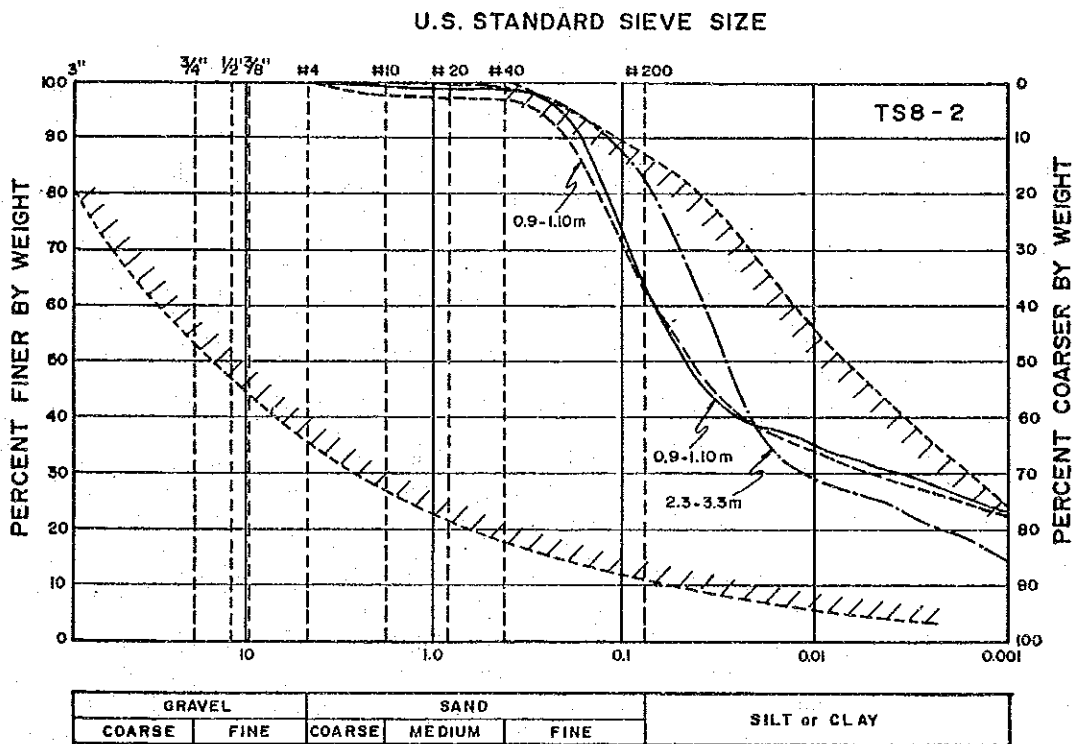
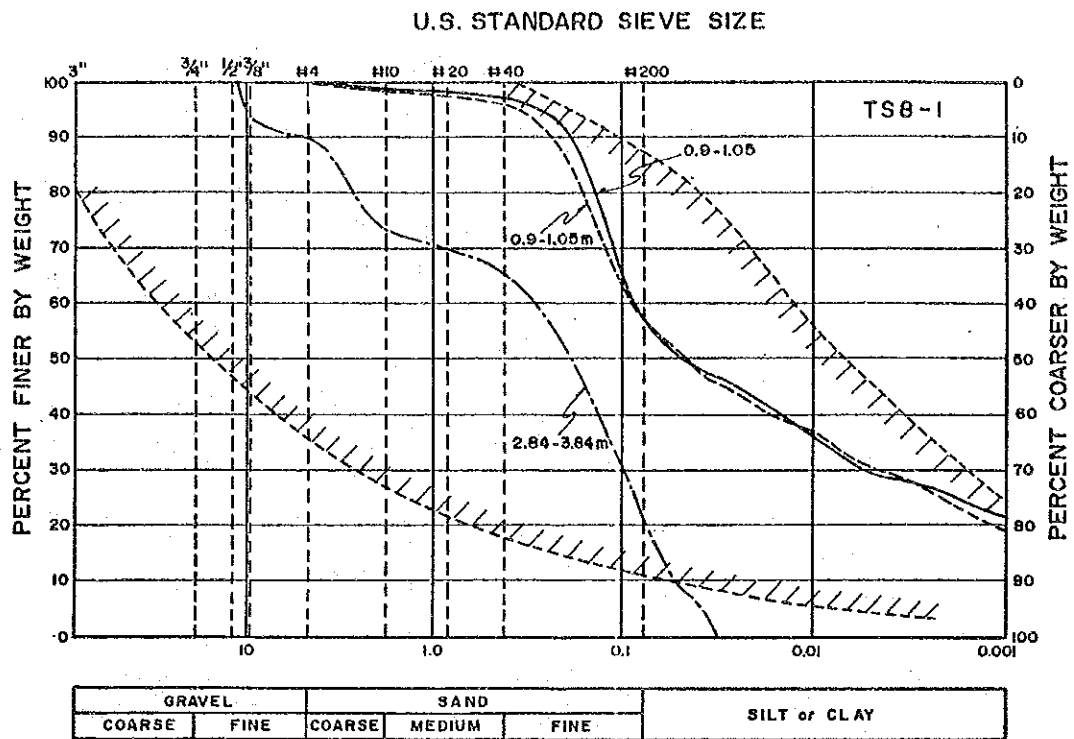


Fig. 4.5 (8/10) GRAIN SIZE DISTRIBUTION OF SOIL (TS8)

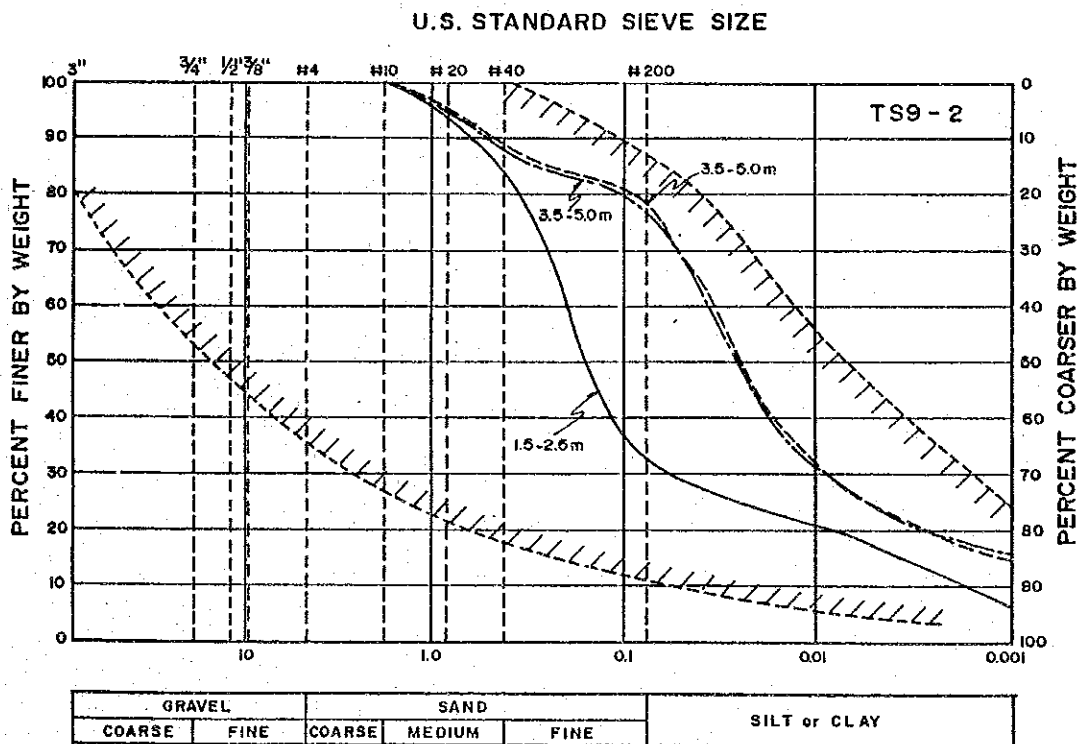
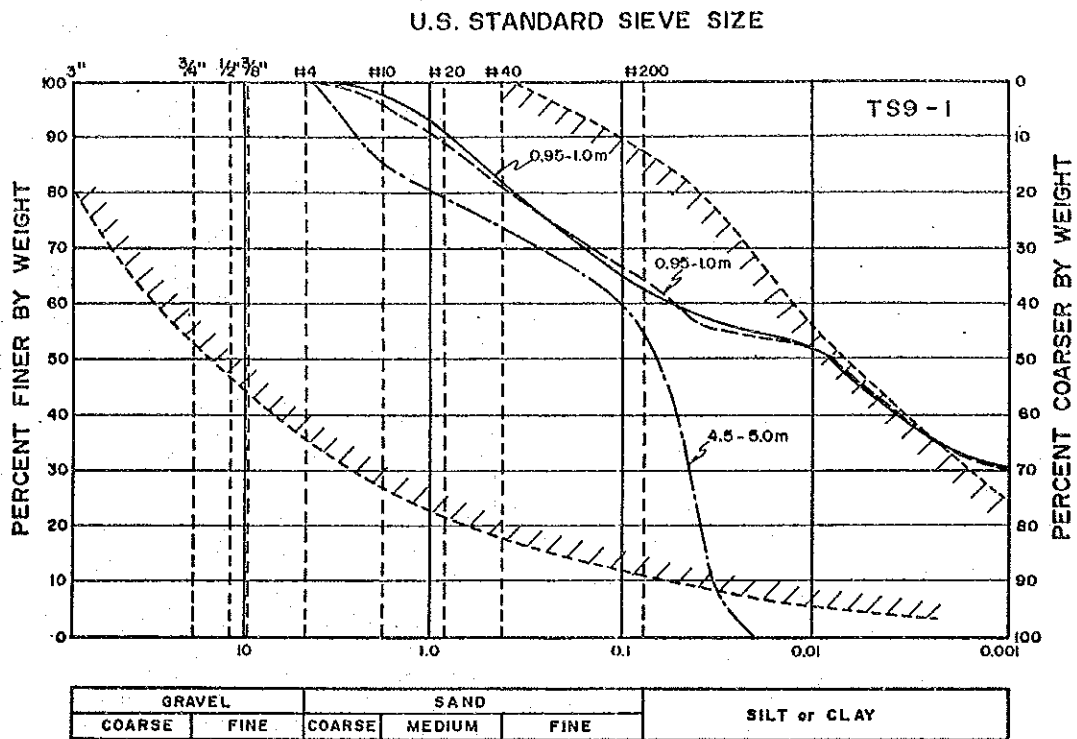


Fig.4.5 (9/10) GRAIN SIZE DISTRIBUTION OF SOIL (TS9)

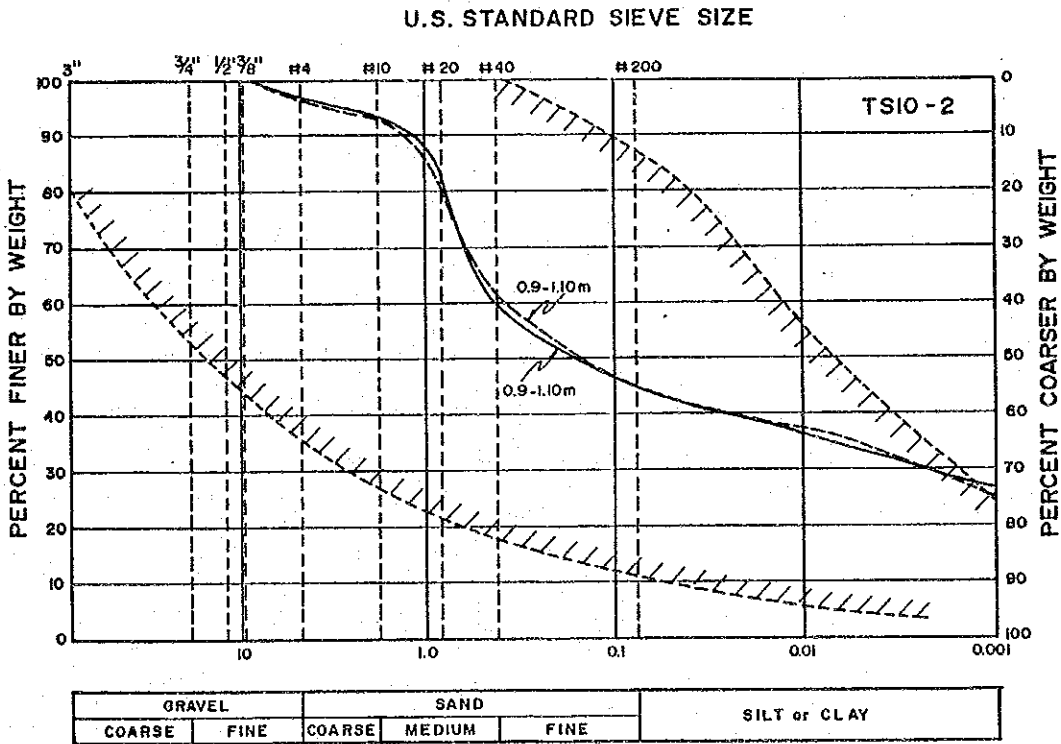
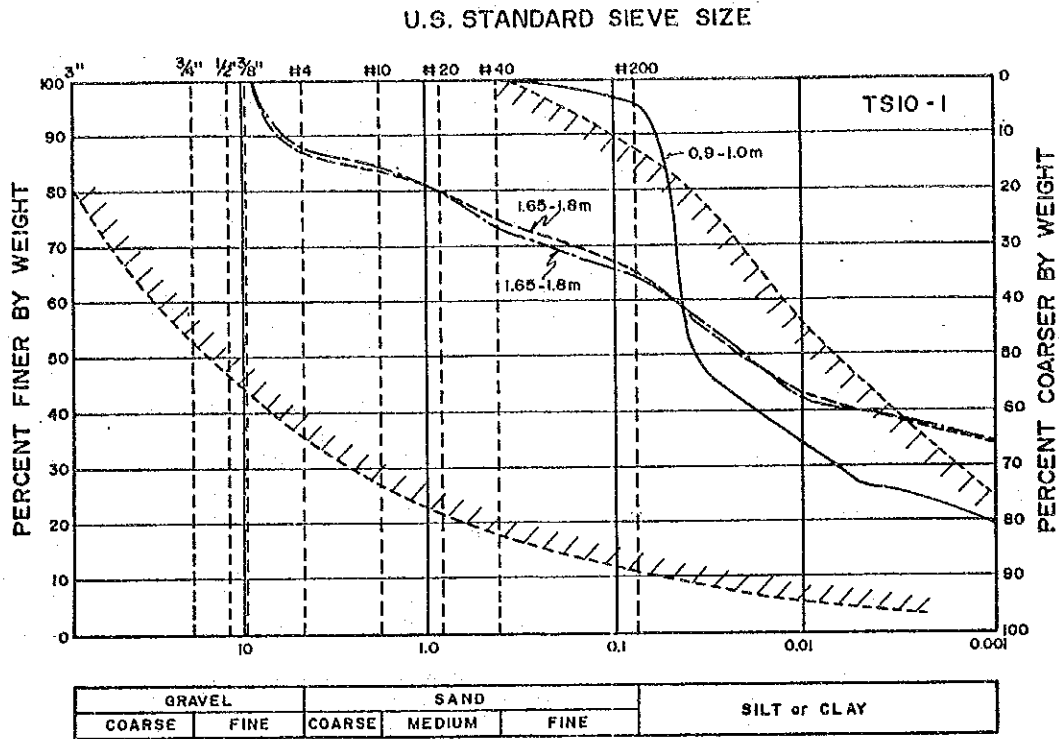


Fig.4.5 (10/10) GRAIN SIZE DISTRIBUTION OF SOIL (TS10)



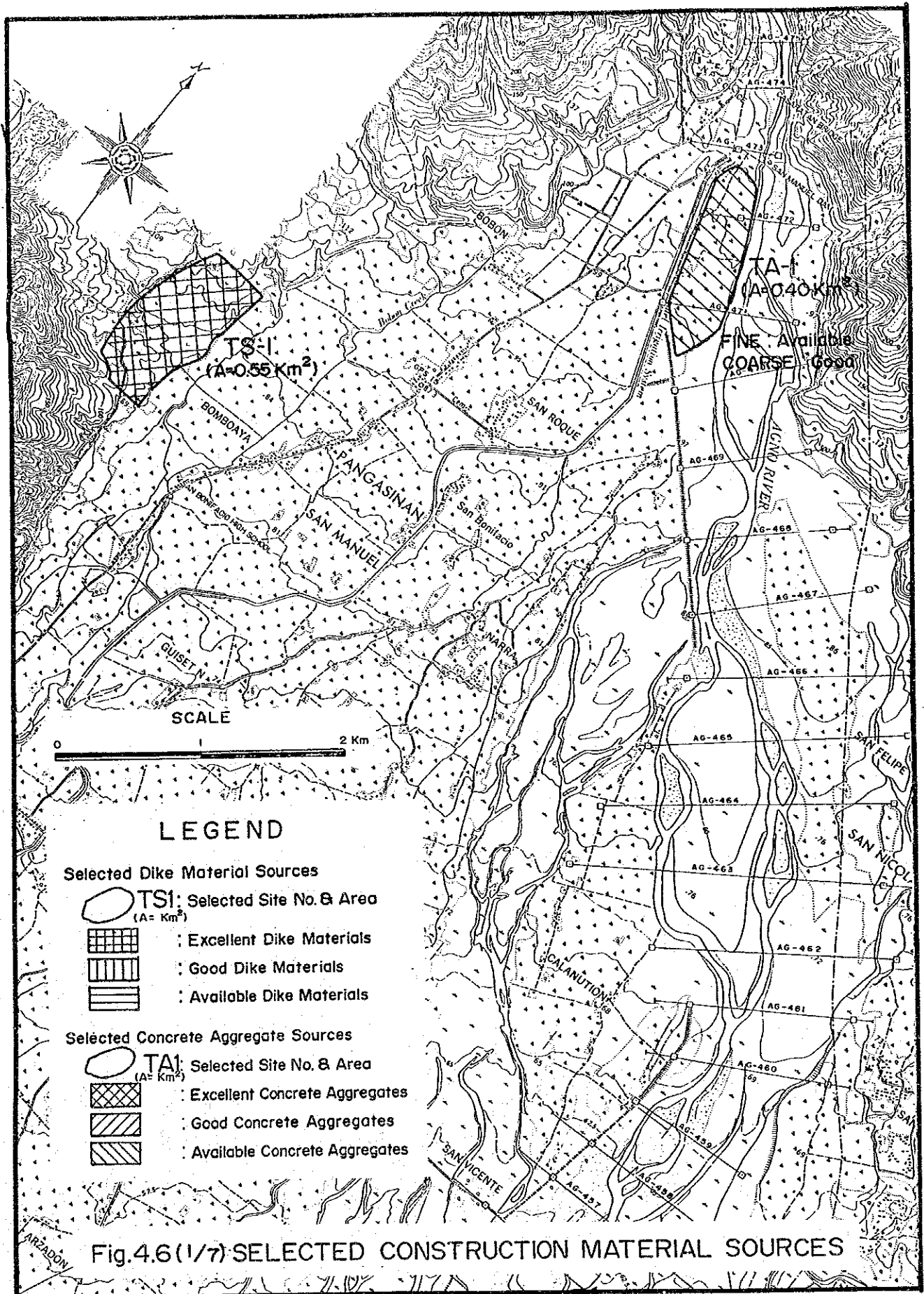
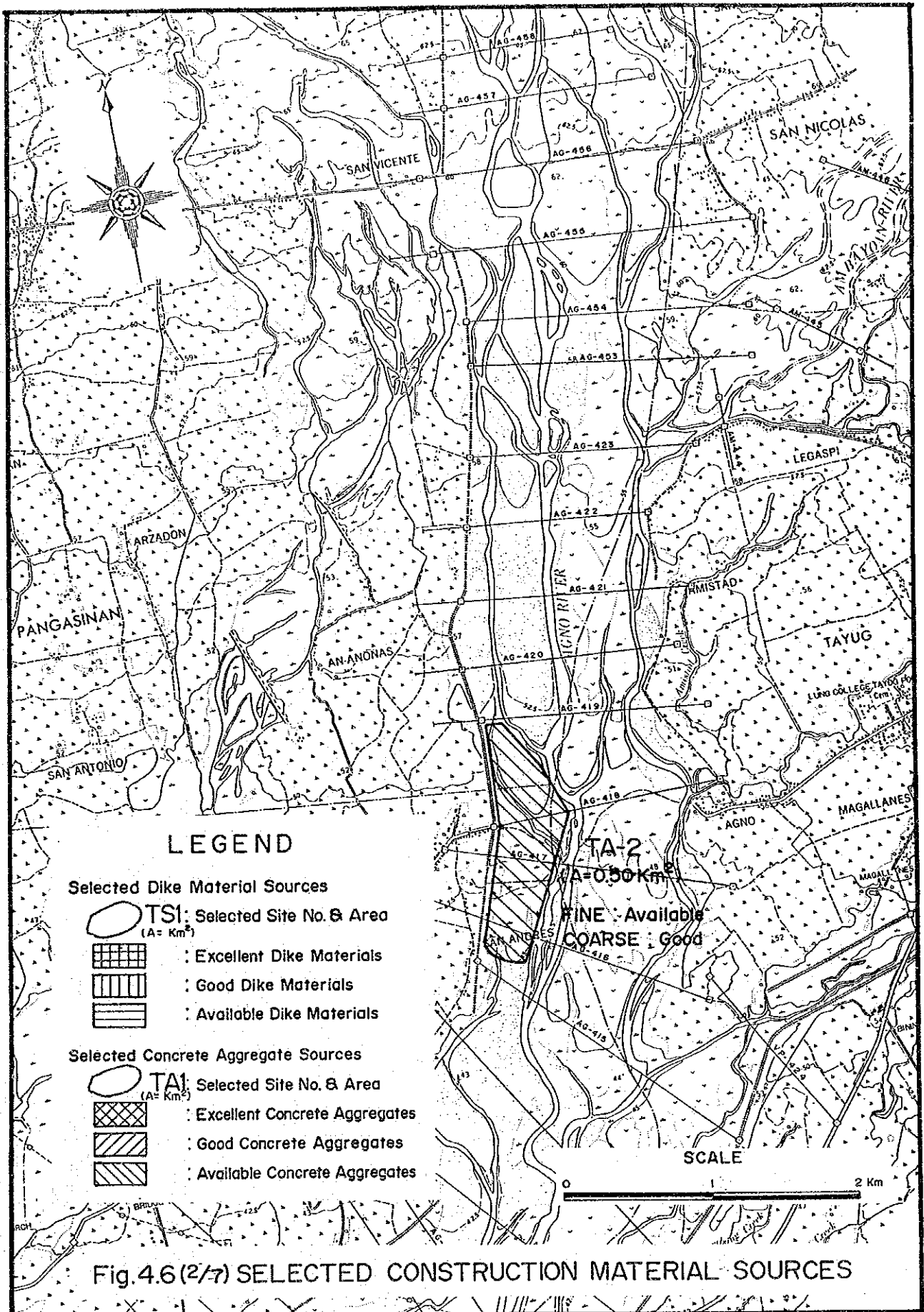


Fig.4.6 (1/7) SELECTED CONSTRUCTION MATERIAL SOURCES

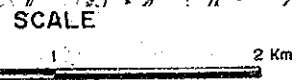


**LEGEND**

- Selected Dike Material Sources**
- : Selected Site No. & Area
  - : Excellent Dike Materials
  - : Good Dike Materials
  - : Available Dike Materials

- Selected Concrete Aggregate Sources**
- : Selected Site No. & Area
  - : Excellent Concrete Aggregates
  - : Good Concrete Aggregates
  - : Available Concrete Aggregates

**TA-2**  
**(A=0.50 km²)**  
**FINE Available**  
**COARSE Good**



**Fig.4.6 (2/7) SELECTED CONSTRUCTION MATERIAL SOURCES**



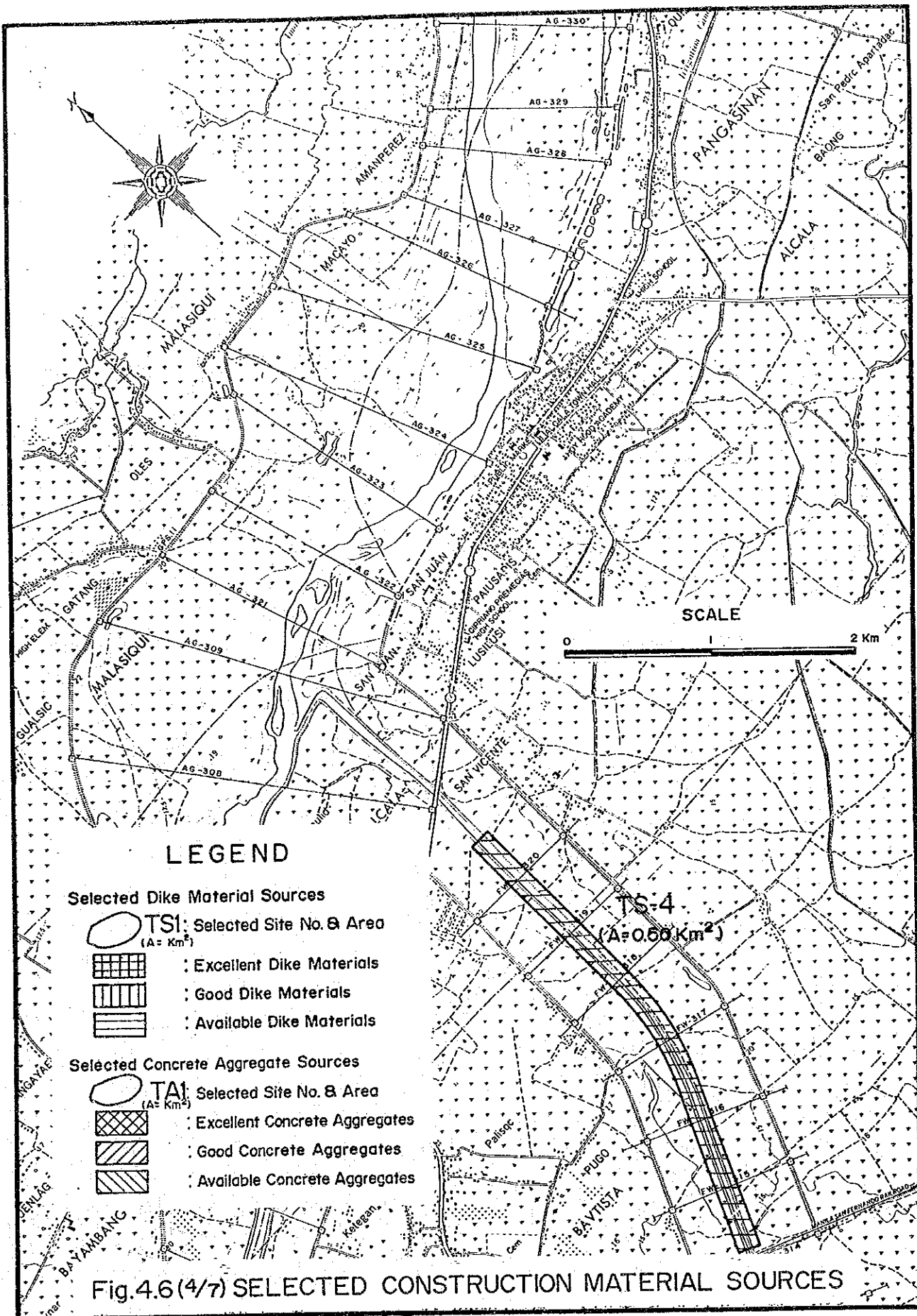
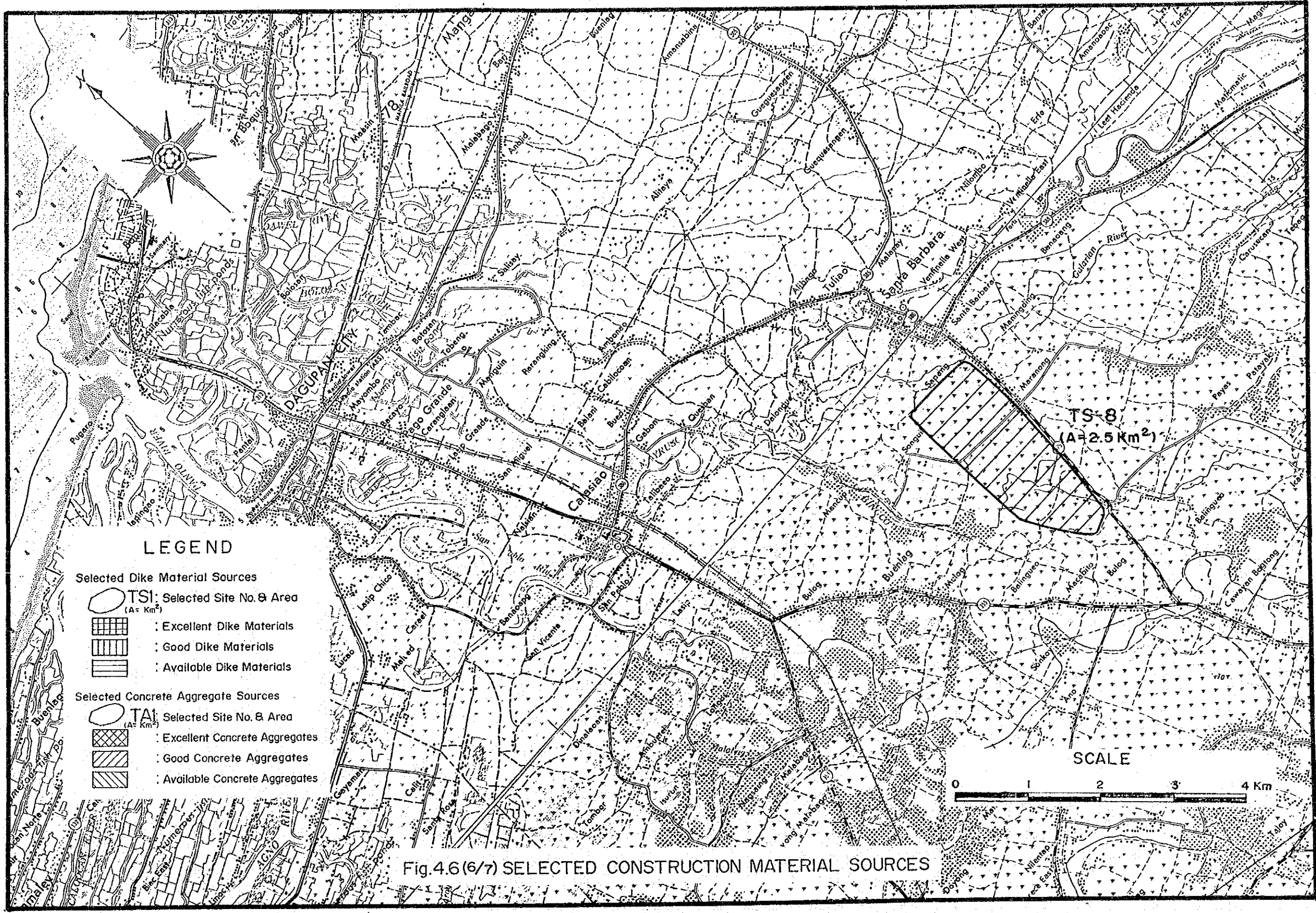


Fig.4.6 (4/7) SELECTED CONSTRUCTION MATERIAL SOURCES



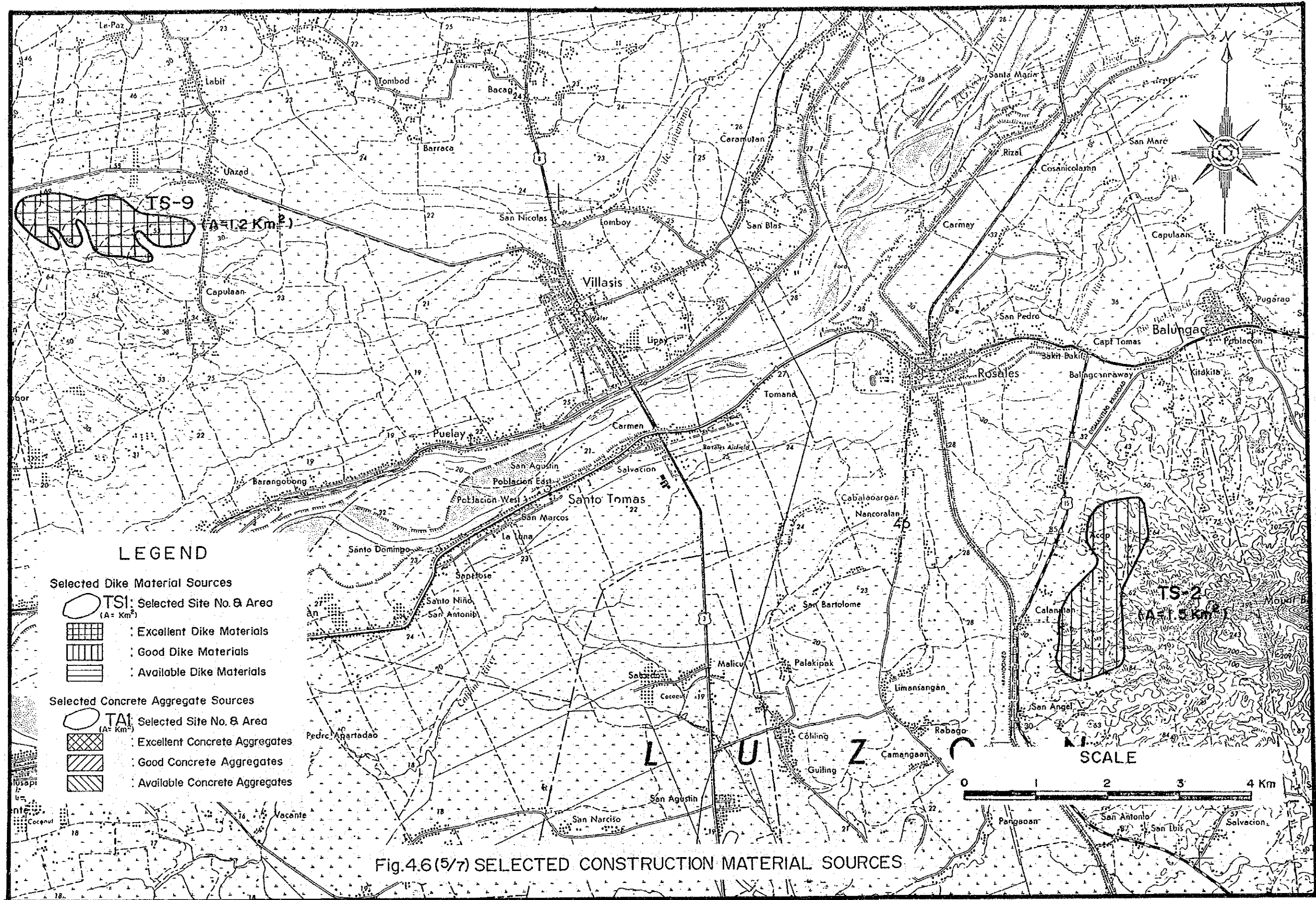
**LEGEND**

- Selected Dike Material Sources**
- TSI: Selected Site No. & Area (A= Km<sup>2</sup>)
  - : Excellent Dike Materials
  - : Good Dike Materials
  - : Available Dike Materials
- Selected Concrete Aggregate Sources**
- TAI: Selected Site No. & Area (A= Km<sup>2</sup>)
  - : Excellent Concrete Aggregates
  - : Good Concrete Aggregates
  - : Available Concrete Aggregates

**SCALE**  
0 1 2 3 4 Km

Fig.4.6 (6/7) SELECTED CONSTRUCTION MATERIAL SOURCES





**LEGEND**

- Selected Dike Material Sources**
- TSI: Selected Site No. & Area (A = Km<sup>2</sup>)
  - : Excellent Dike Materials
  - : Good Dike Materials
  - : Available Dike Materials
- Selected Concrete Aggregate Sources**
- TAI: Selected Site No. & Area (A = Km<sup>2</sup>)
  - : Excellent Concrete Aggregates
  - : Good Concrete Aggregates
  - : Available Concrete Aggregates

Fig.4.6 (5/7) SELECTED CONSTRUCTION MATERIAL SOURCES

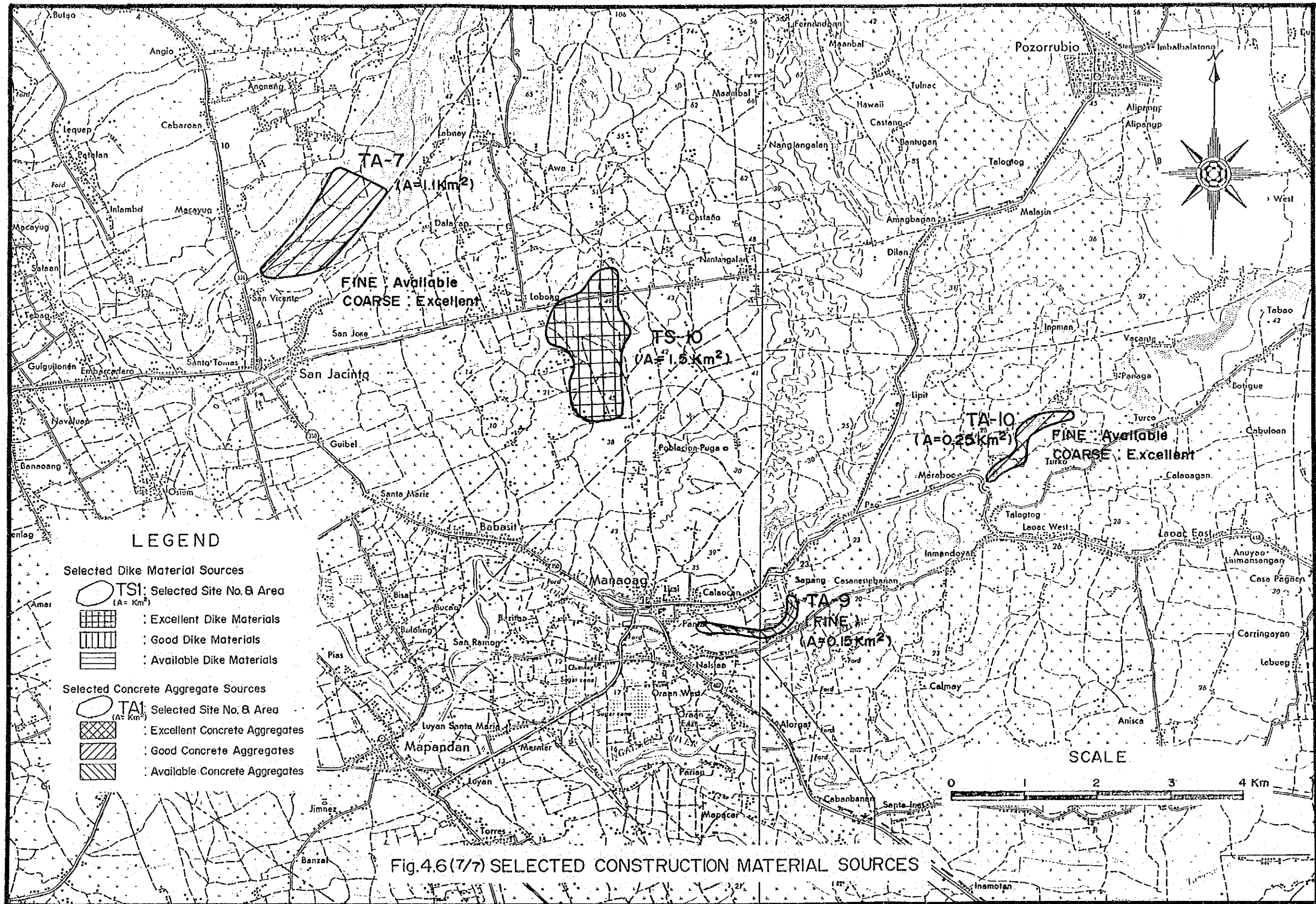


Fig.4.6(7/7) SELECTED CONSTRUCTION MATERIAL SOURCES