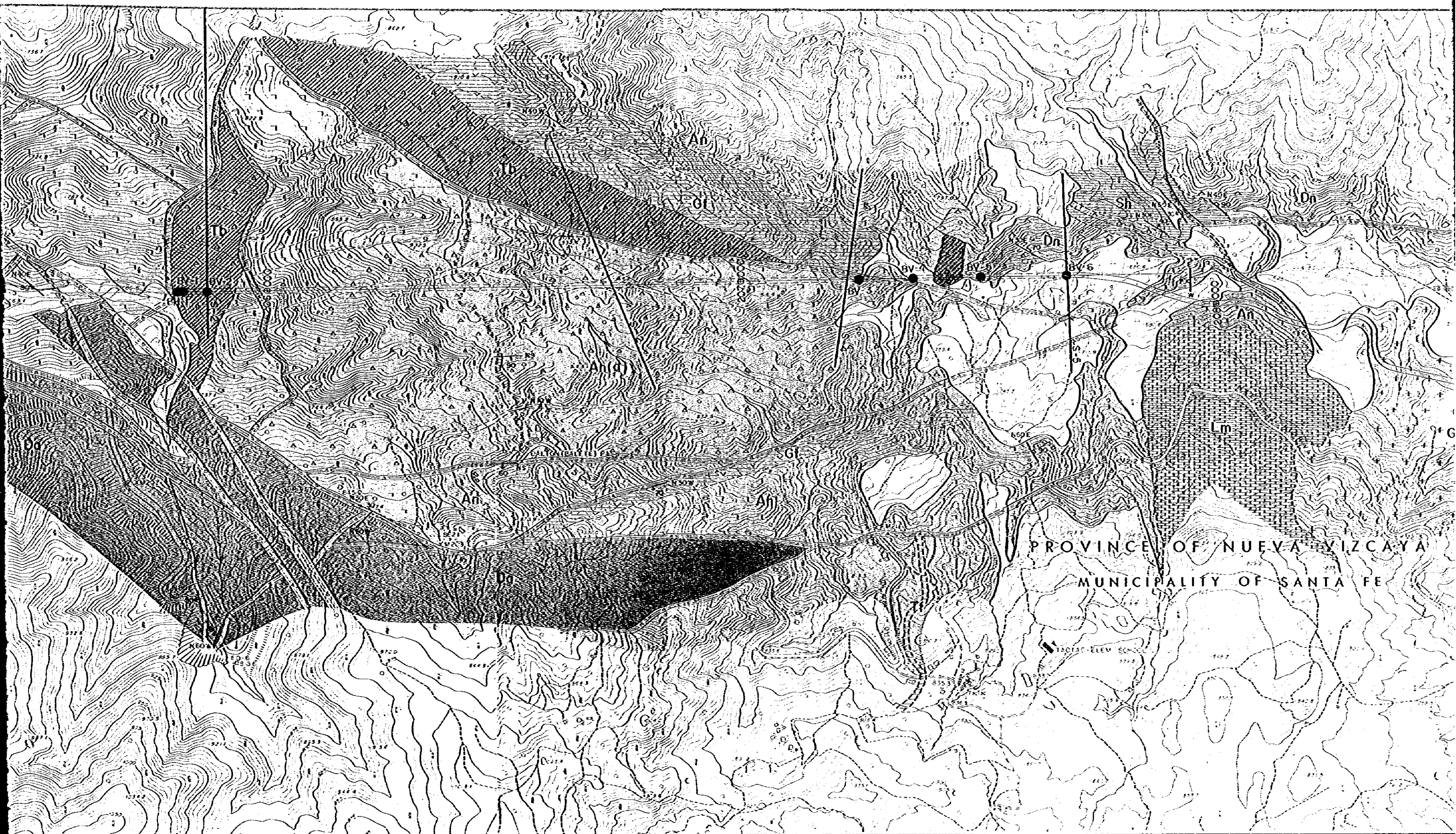
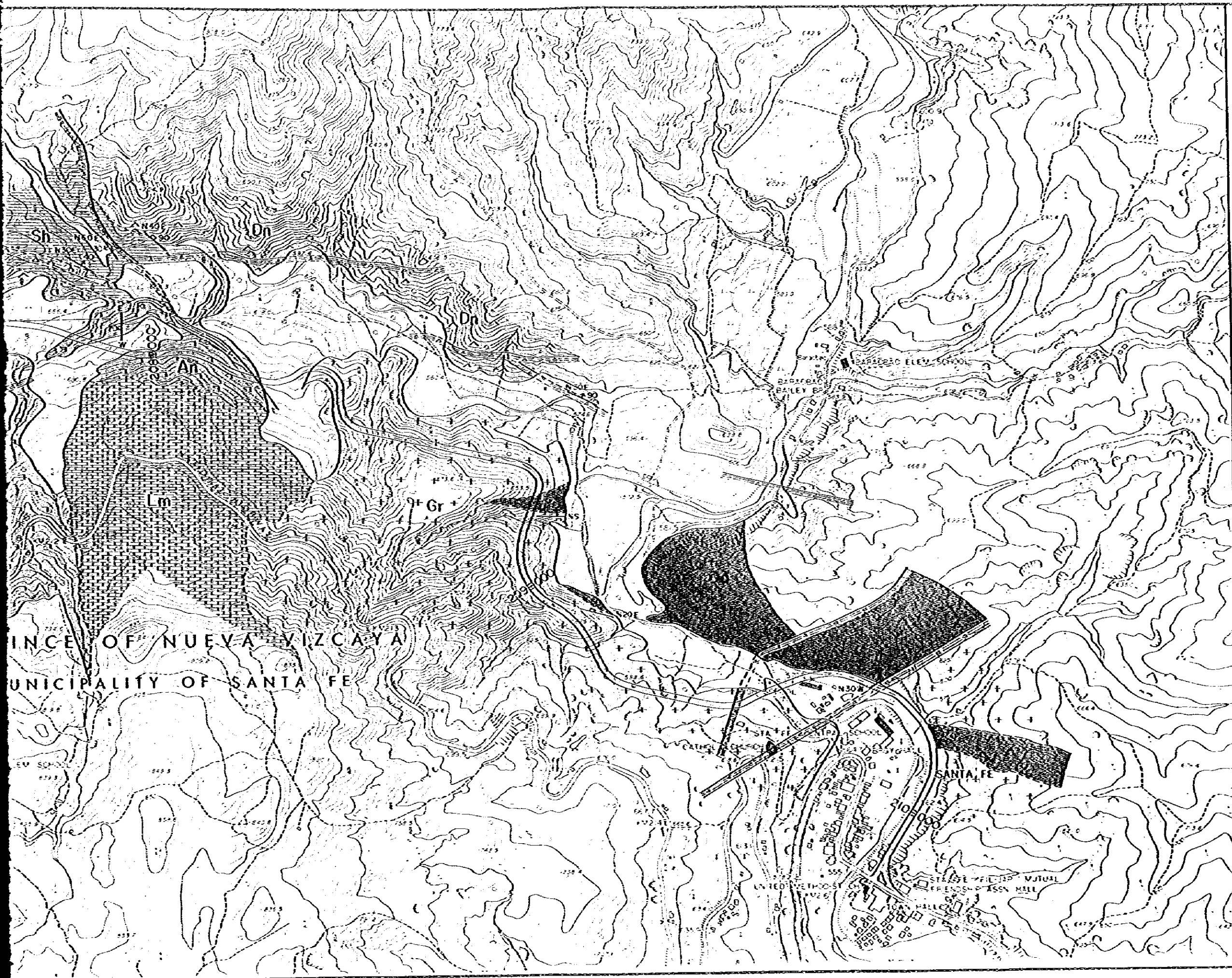


PROVINCE OF NUEVA ECIIJA  
MUNICIPALITY OF CARRANGLAN

DRAWING NO. GS-4 GEOLOGICAL MAP OF SECTION A



PROVINCE OF NUEVA VIZCAYA  
MUNICIPALITY OF SANTA FE



**LEGEND**

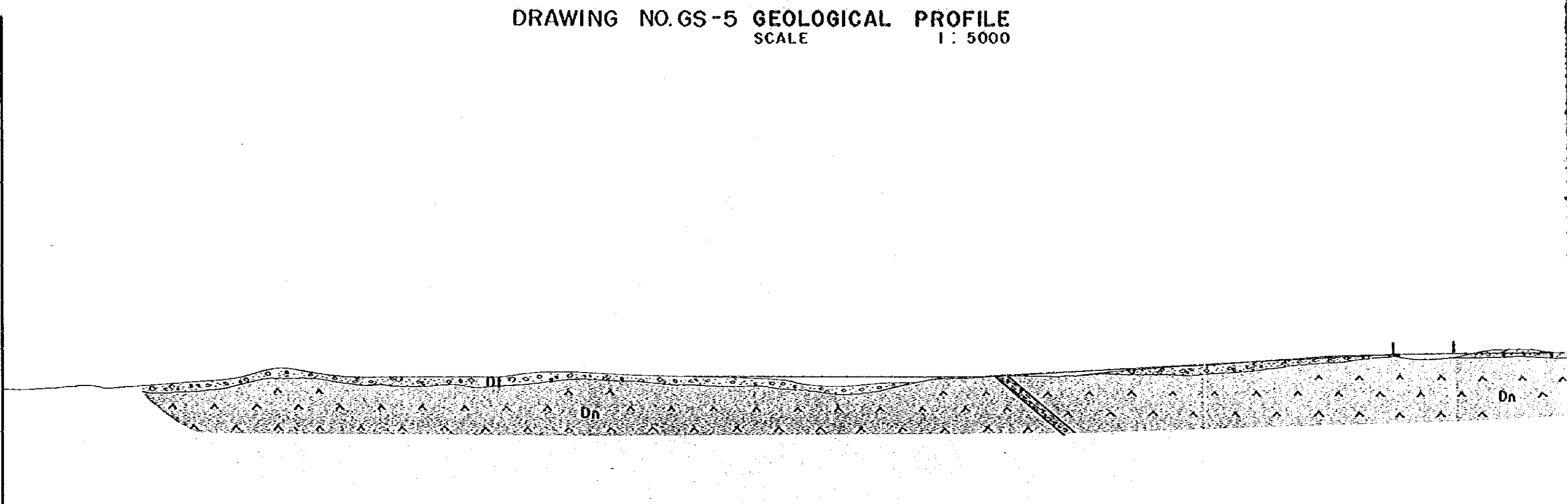
- Df River Deposit  
(Include Tolus, Terrece Deposit)
- Lm Limestone
- Dn Dacitic Andesite
- Sh Shale
- Tf White Tuff
- Gt Green Tuff
- Tb Tuff Breccia
- An Andesite
- An(o) Auto Clastic Andesite
- Da Diabase
- Gr Granite
- Shear Zone
- Bedding
- Joint
- Altered Zone

DRAWING NO.

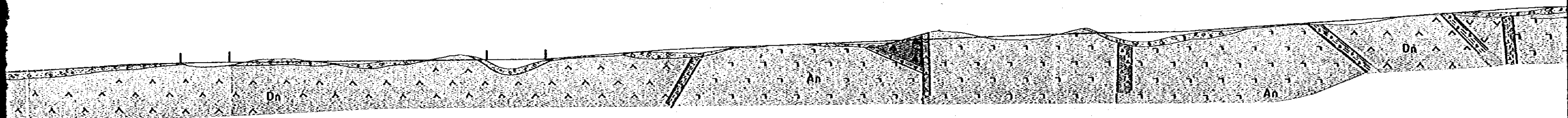
GS-4

DRAWING NO.GS-5 GEOLOGICAL PROFILE  
 SCALE 1 : 5000

1000.0 M  
 900.0 M  
 800.0 M  
 700.0 M  
 600.0 M  
 500.0 M



STATION (KM)	202 + 000	202 + 500	203 + 000	203 + 500
KIND OF CONSTRUCTION	Improvement of Existing Road		Bridge No.1	Bridge No.2
GEOLOGICAL CONDITION	River Deposit Dacitic Andesite		Dacitic Andesite	River Deposit Dacitic Andesite
PORTION OF SHEAR ZONE				
VELOCITY OF ELASTIC WAVE				
ROCK SPECIMEN TEST	P WAVE			
	S WAVE			
	$qu (kg/cm^2)$			
CRACKY FACTOR				
BASE ROCK CLASSIFICATION				
CONSTRUCTION DIFFICULTY				



203 + 500

204 + 000

204 + 500

205 + 000

205 + 500

Bridge  
No. 2

Bridge  
No. 3

Bridge  
No. 4

River Deposit  
Dacitic Andesite

Talus  
Dacitic Andesite

Andesite

Tuff  
Breccio

Andesite

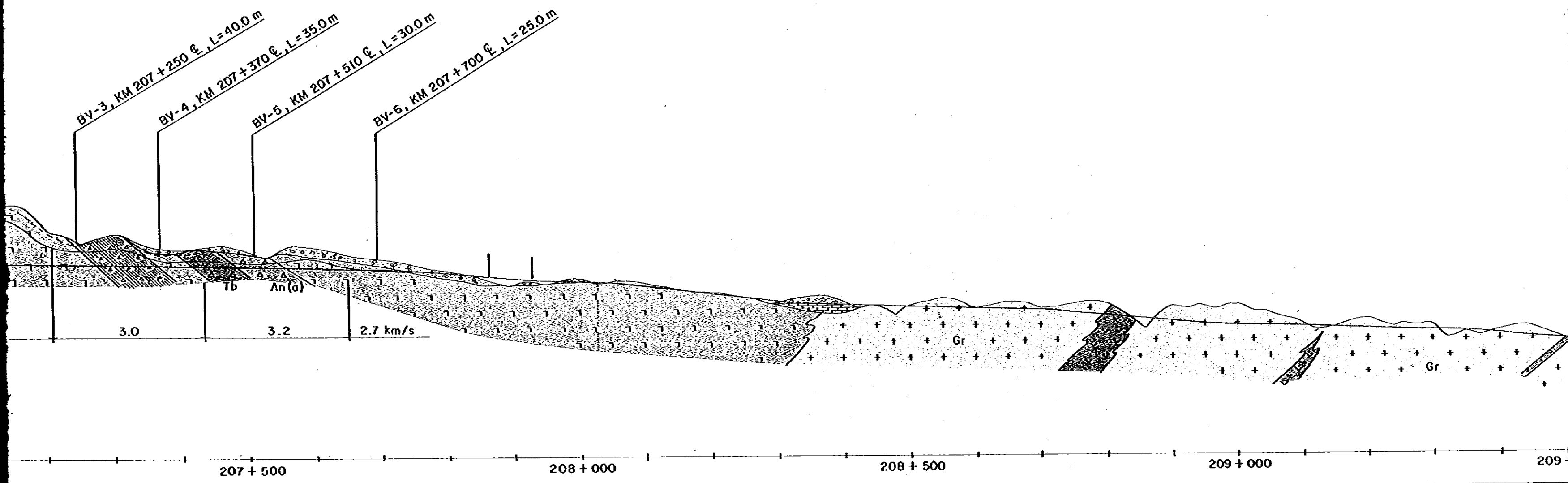
Talus  
Andesite

Andesite

Dacitic Andesite

Talus  
Andesite

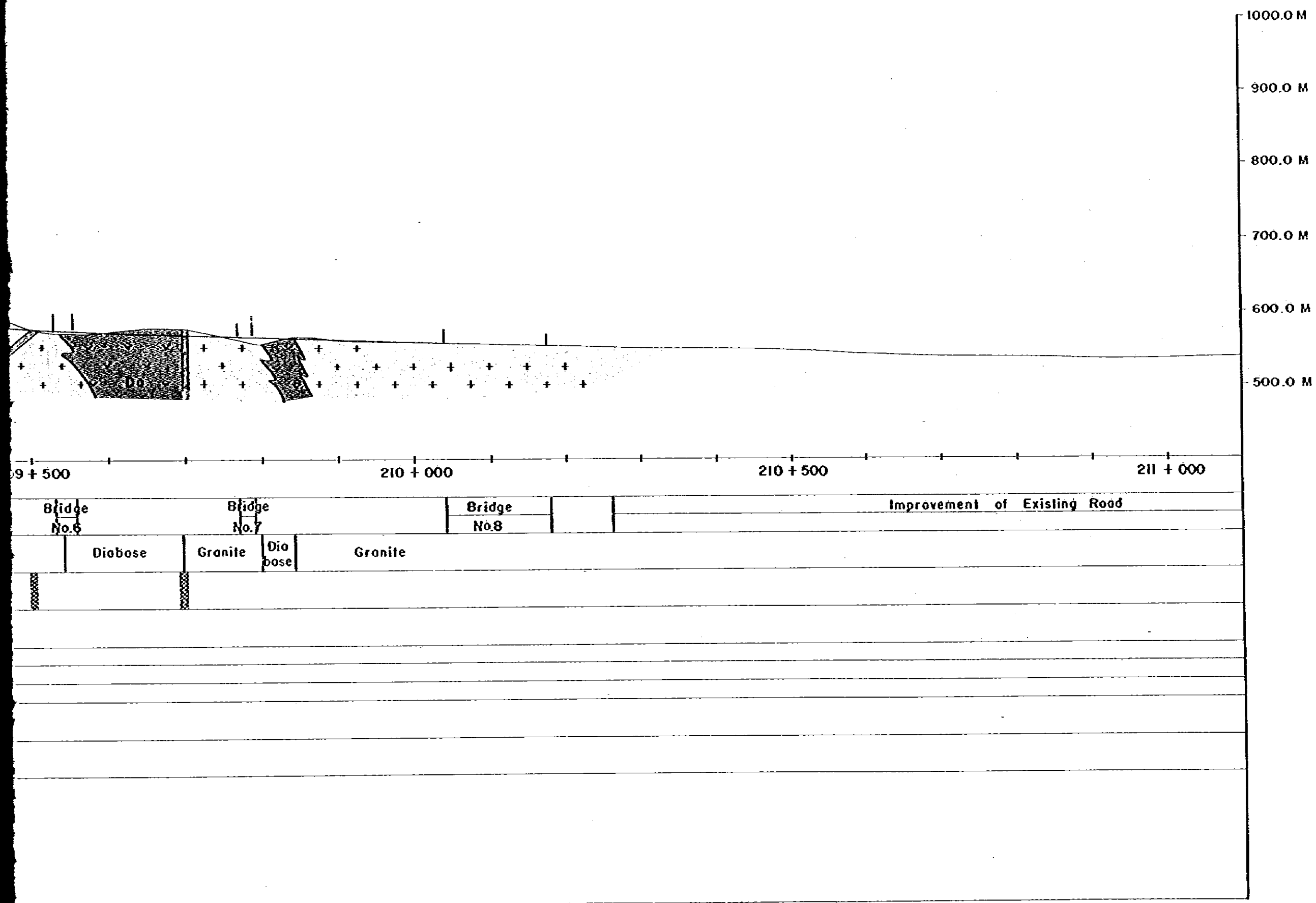




			Bridge No.5						
	Talus, Terece Deposit			Andesite	Talus		Granite	Dia	Granite
	TUFF (AUTOCRUSTIC BRECCIAL ANDESITE)				ANDESITE   GRANITE			bose	
	3.0	3.2	2.7						
	BV-3 qv=151.61, 139.45	BV-4 qv=58.81	BV-5 qv=100.76	BV-6 qv=126.10, 254.08					
	C		D						
	V-3, BV-4, BV-5, BV-6 (Andesite)								
	re recovered is short-long core								
	BV-3 < 50%, BV-4 < 60%, BV-5 < 30%								
	BV-6 = 50-70% (Bose Rock)								
	tearing Zone BV-3 25.0 - 27.0 M								

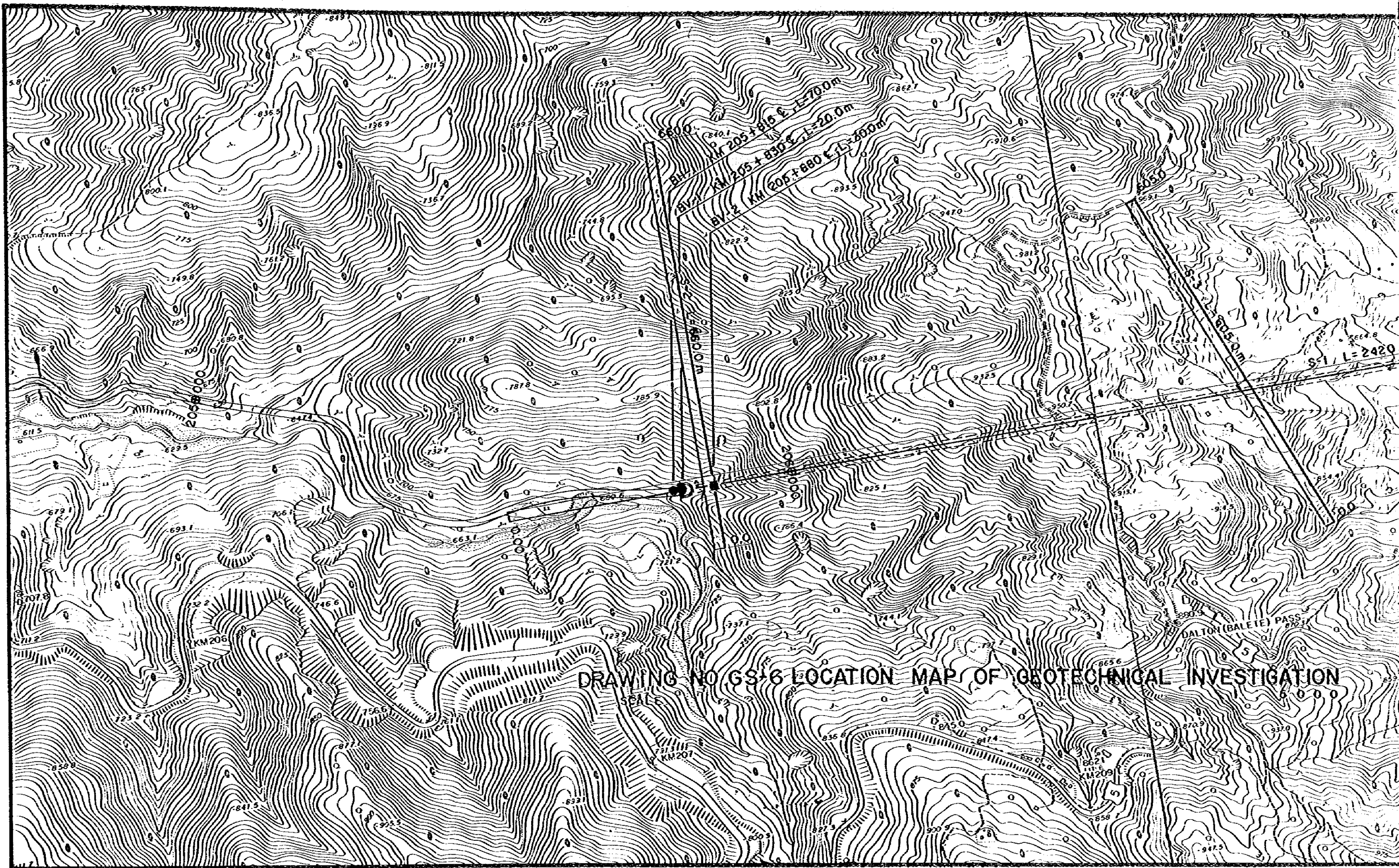






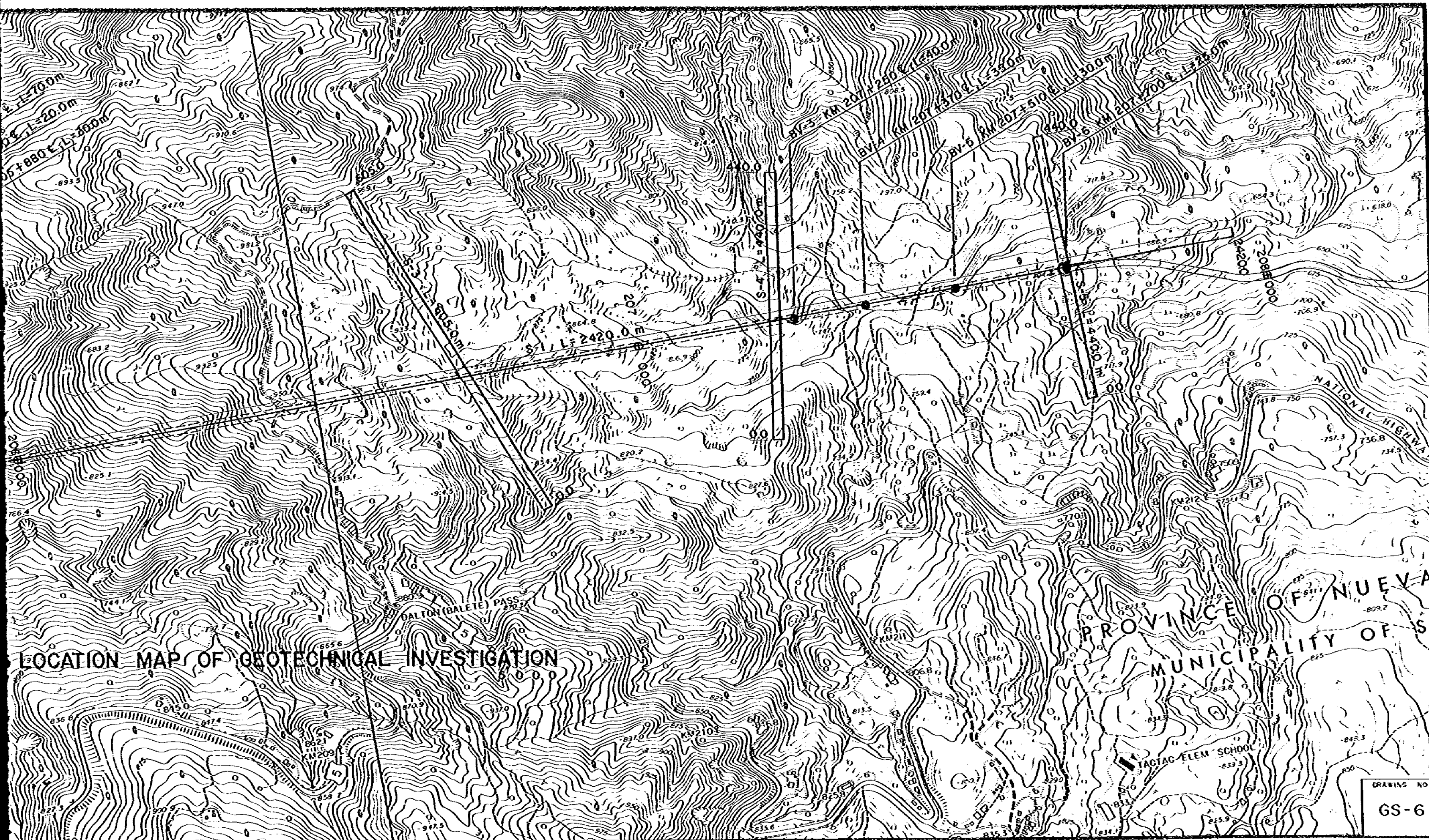
**LEGEND**

- DI** River Deposit (Totus, Terrece dpsl)
- Lm** Limestone
- Dn** Dacitic Andesite
- Sh** Shale
- Tf** White Tuff
- Gt** Green Tuff
- Tb** Tuff Breccia
- An** Andesite
- An(o)** Autoclastic Andesite
- Da** Diabase
- Gr** Granite
- Shear Zone



DRAWING NO GS-6 LOCATION MAP OF GEOTECHNICAL INVESTIGATION

SCALE



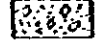
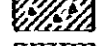
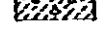








LOCATION MAP OF GEOTECHNICAL INVESTIGATION

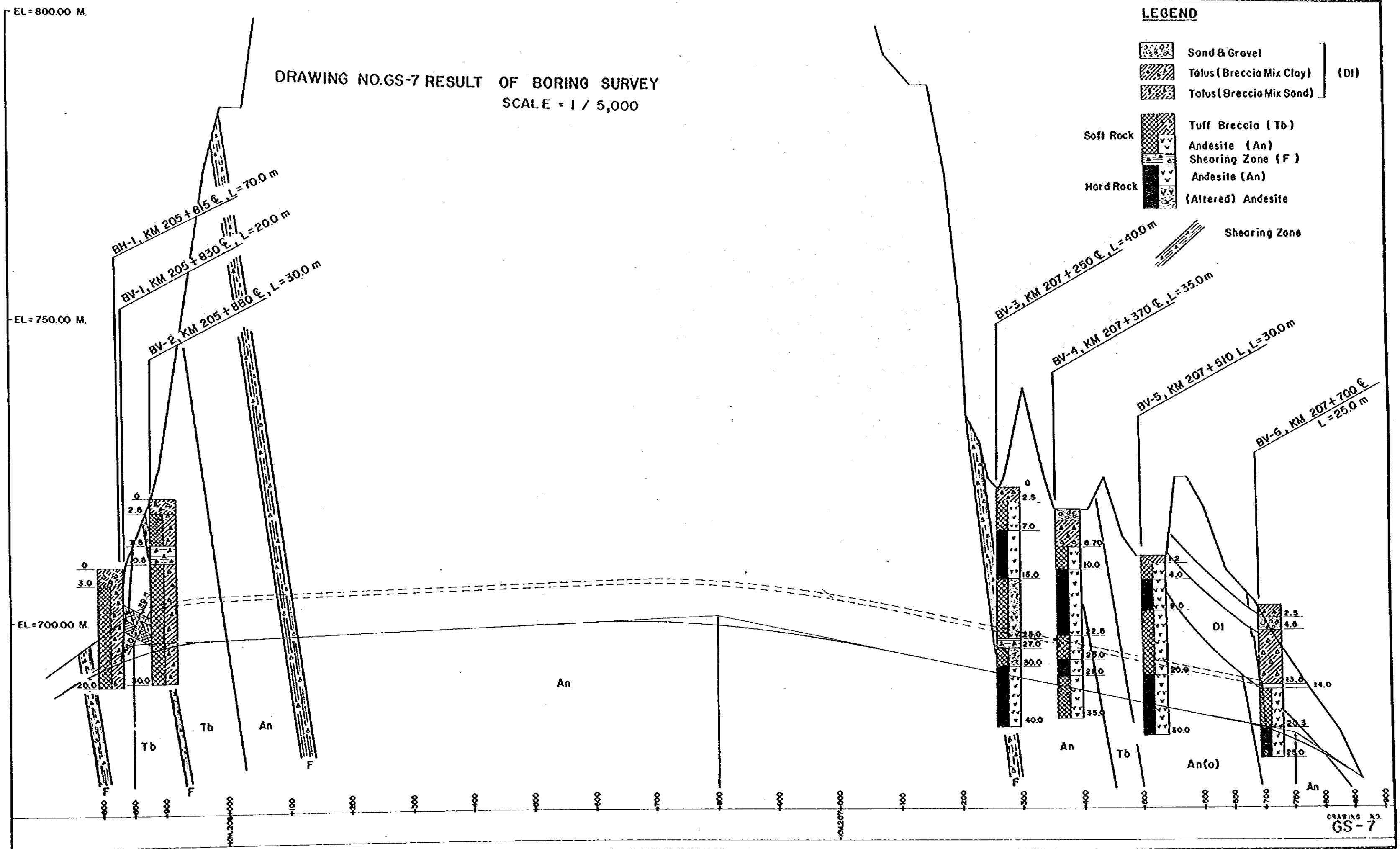
PROVINCE OF NUEVA  
MUNICIPALITY OF S

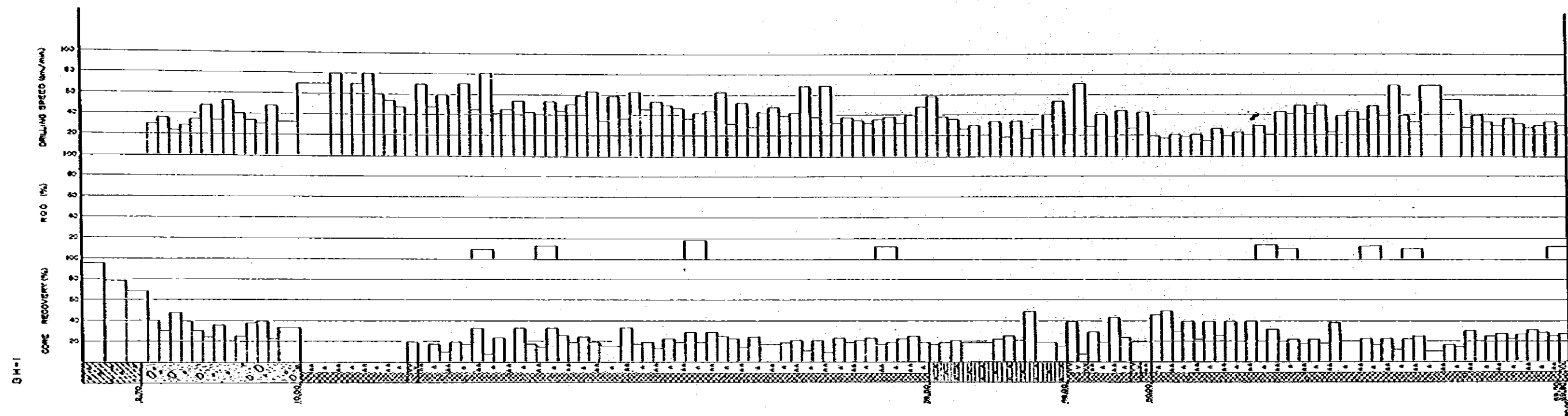
DRAWING NO.  
GS-6

DRAWING NO.GS-7 RESULT OF BORING SURVEY  
SCALE = 1 / 5,000

LEGEND

-  Sand & Gravel
-  Talus (Breccio Mix Clay) (D1)
-  Talus (Breccio Mix Sand)
-  Tuff Breccio (Tb)
-  Andesite (An)
-  Shearing Zone (F)
-  Andesite (An)
-  (Altered) Andesite
-  Soft Rock
-  Hard Rock
-  Shearing Zone





JAPAN INTERNATIONAL COOPERATION AGENCY

DALTON PASS TUNNEL PROJECT  
FEASIBILITY STUDY

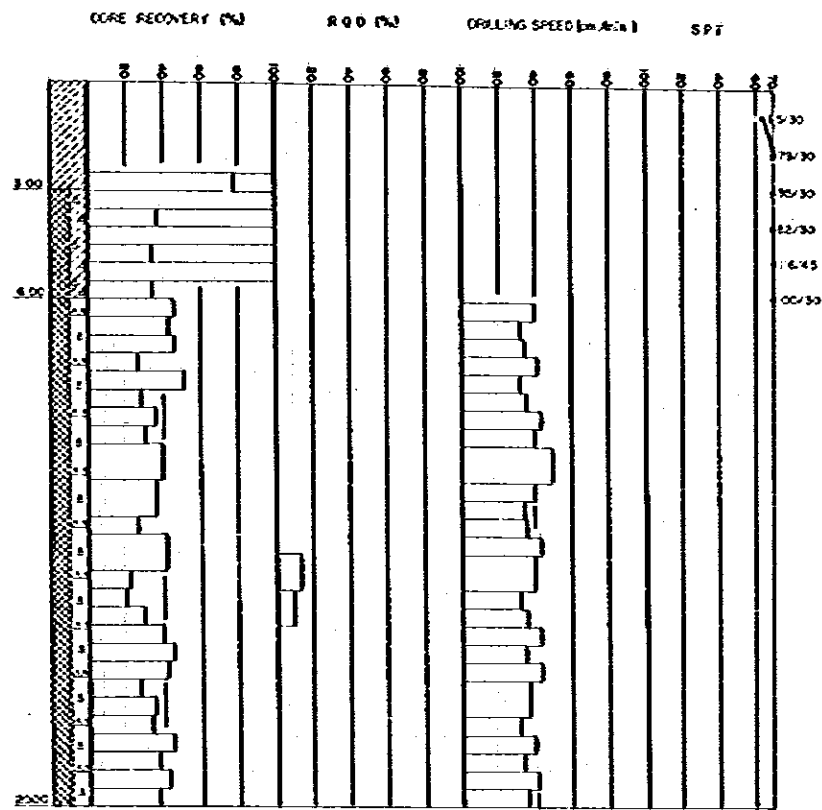
BORING COLUMNAR(1)  
BH-1

DATE: MAR '82

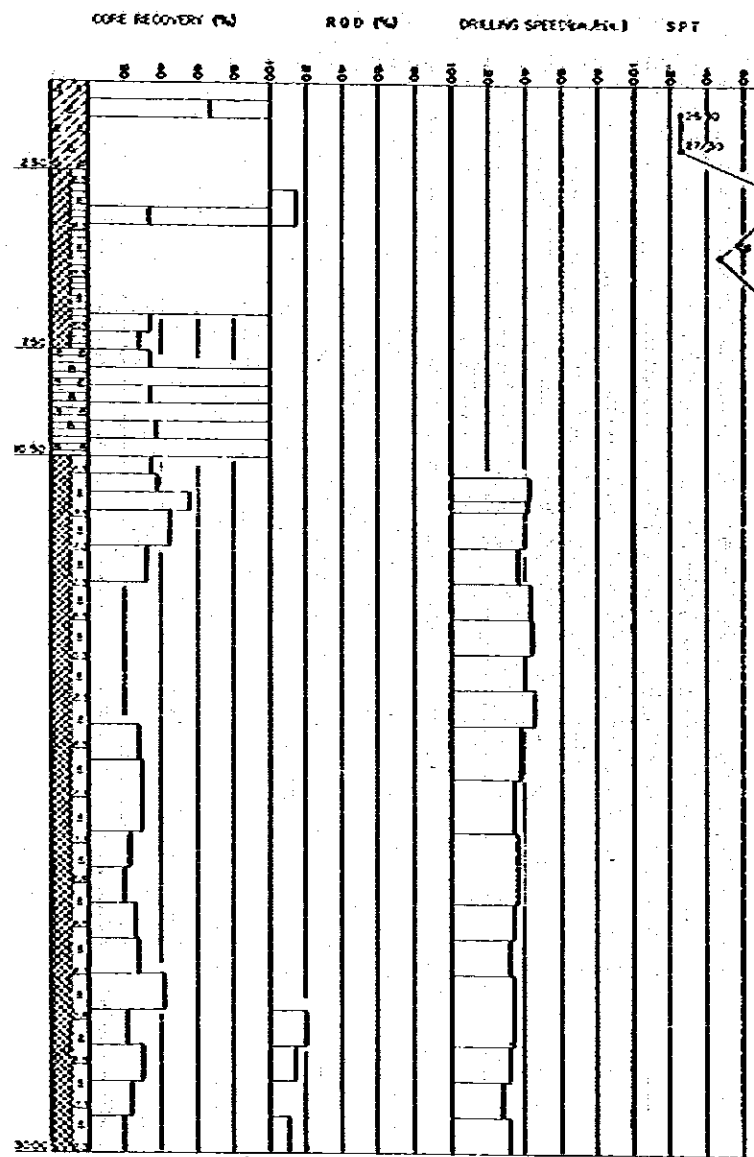
DRAWING NO.

GS - 8

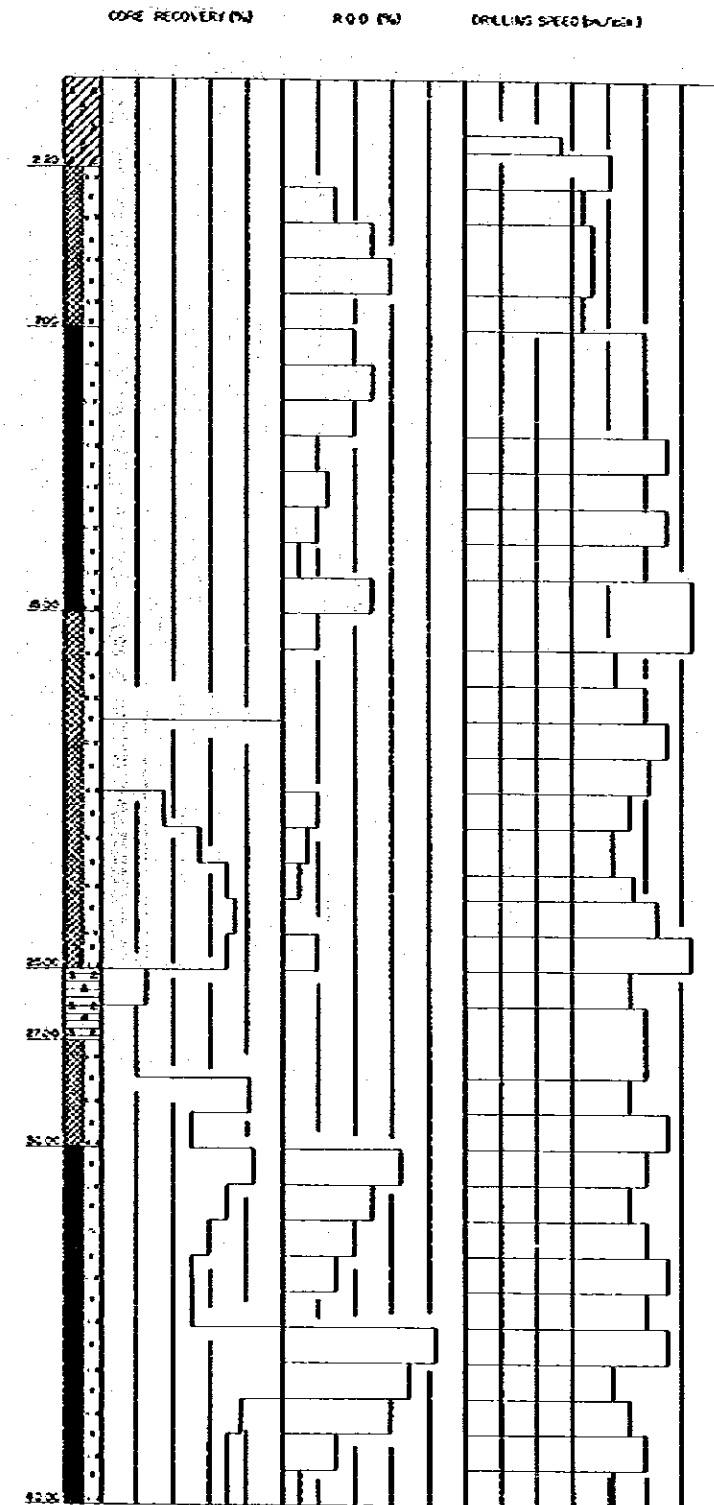
BY-1

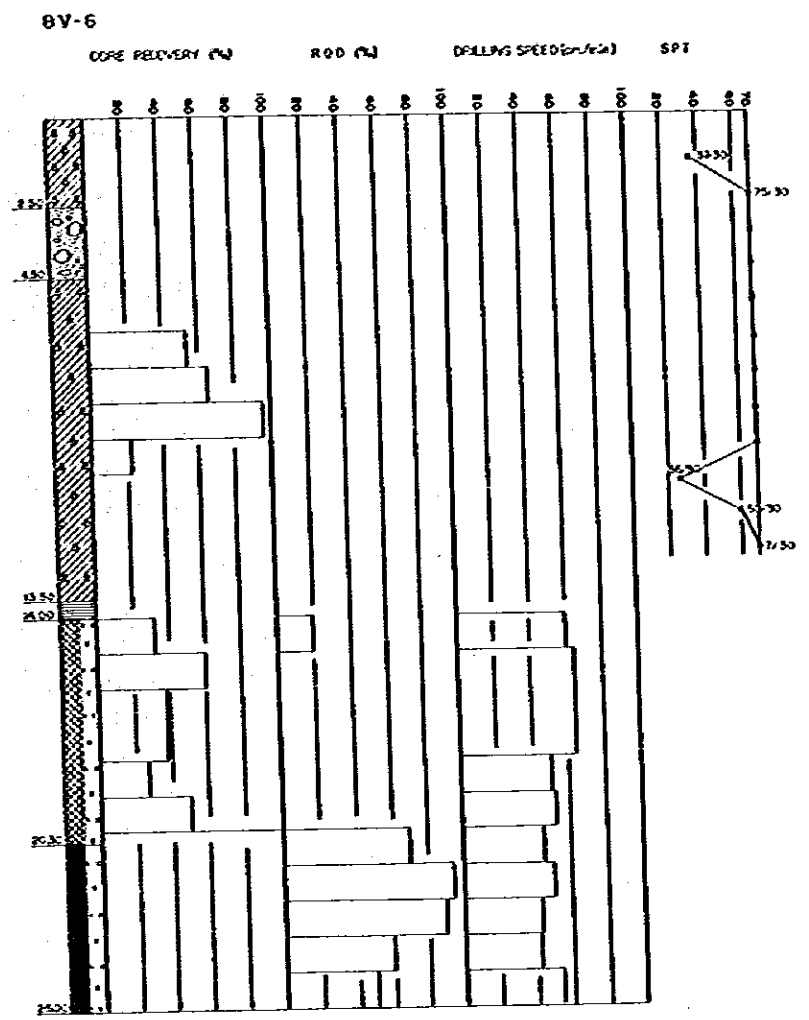
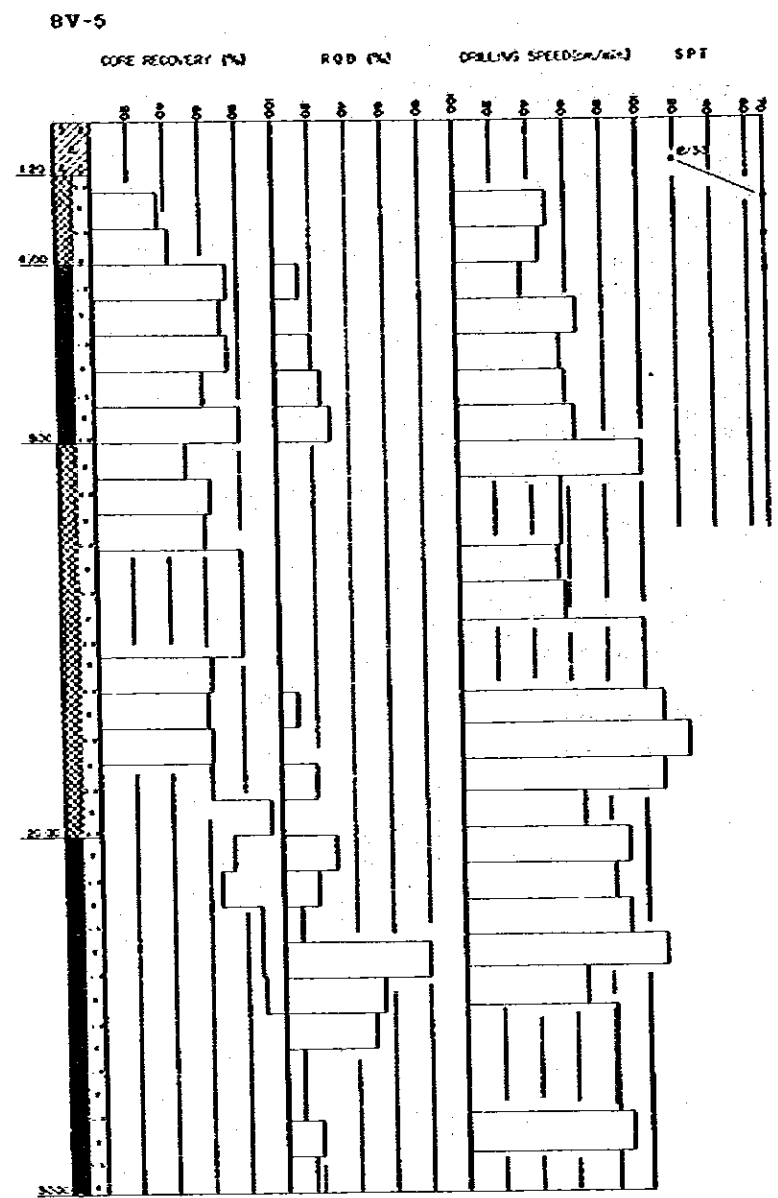
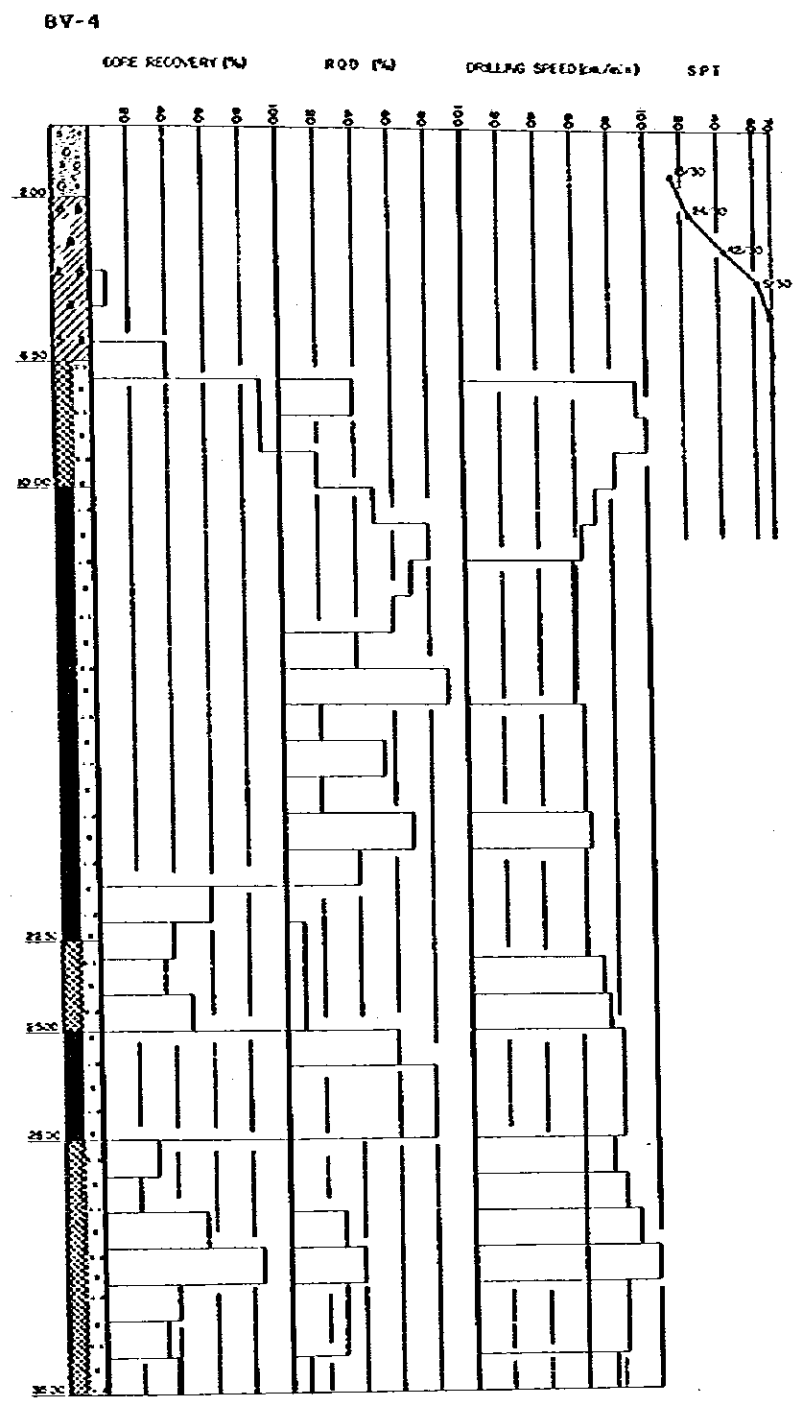


BY-2

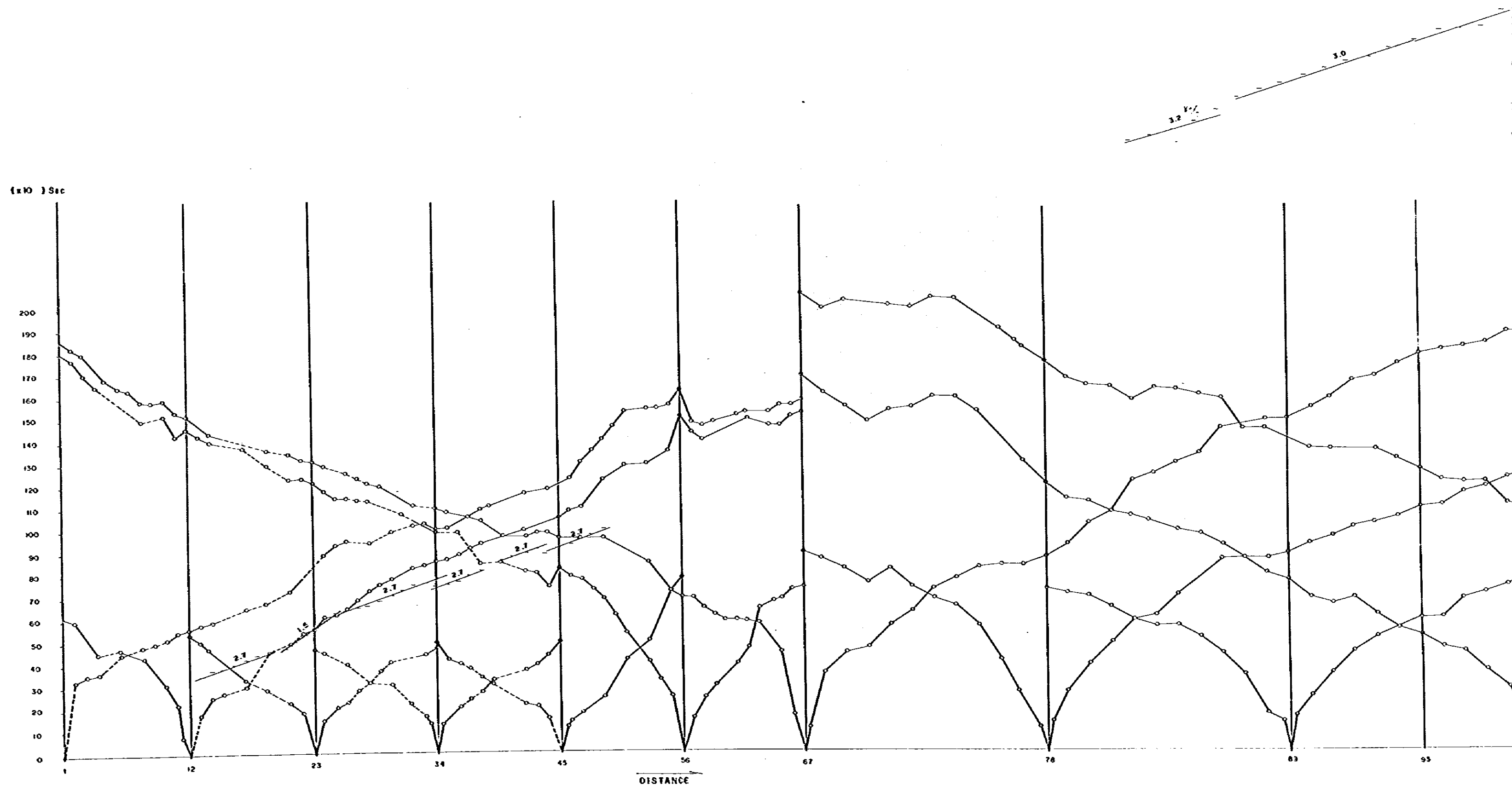


BY-3





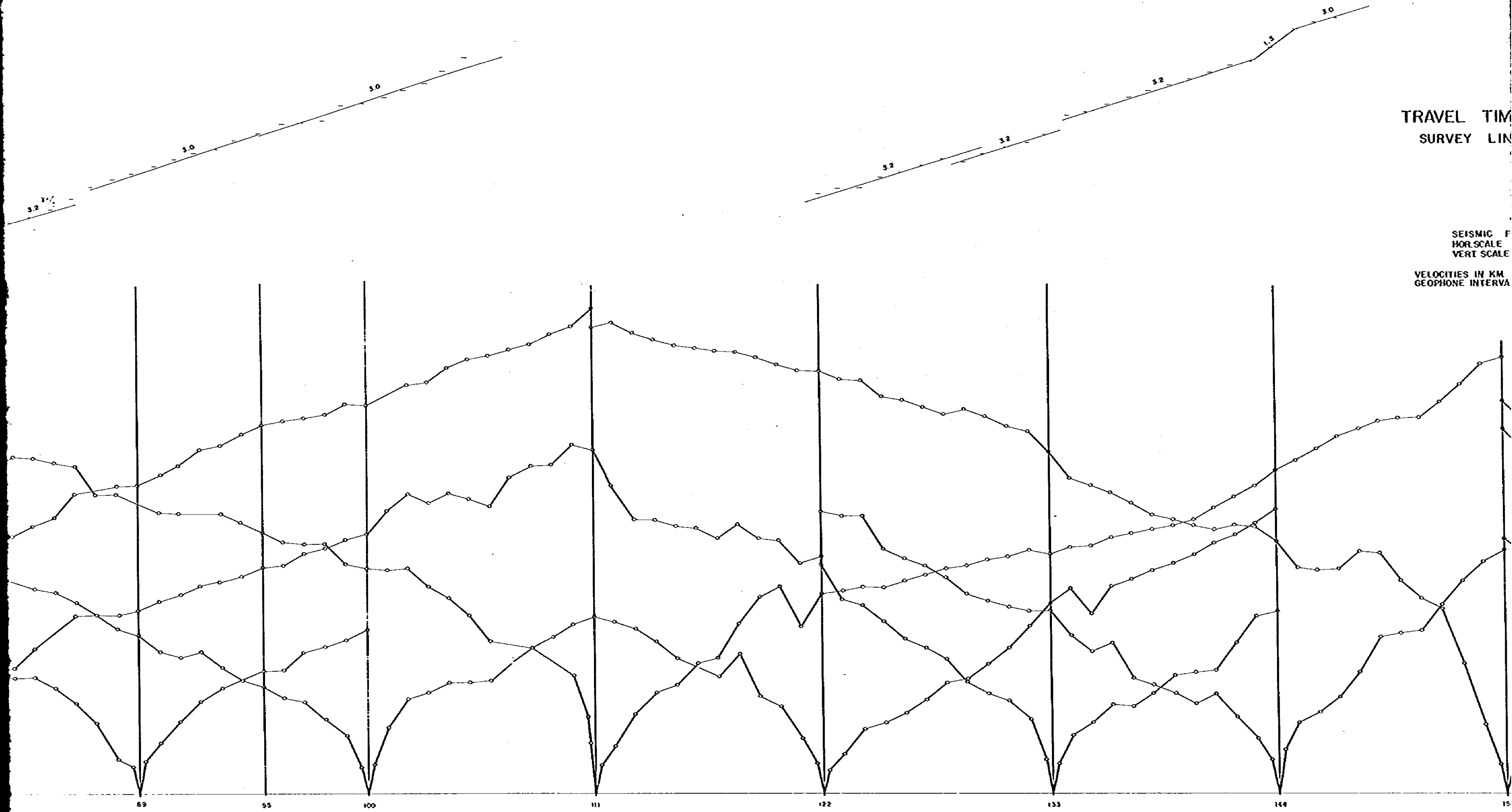
DRAWING . NO . GS - 11 TRAVEL TIME CURVE S-1





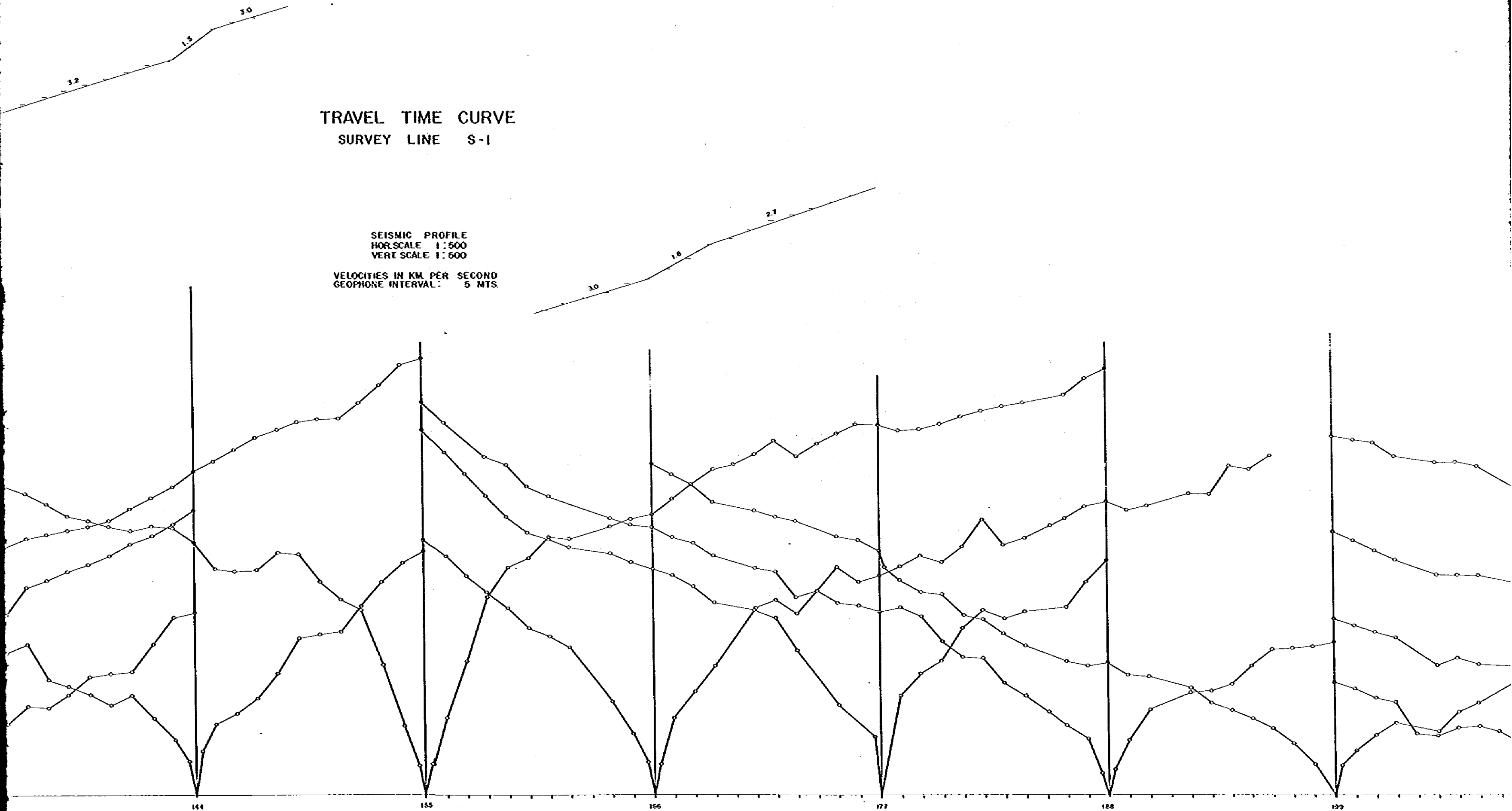
TRAVEL TIME  
SURVEY LINE

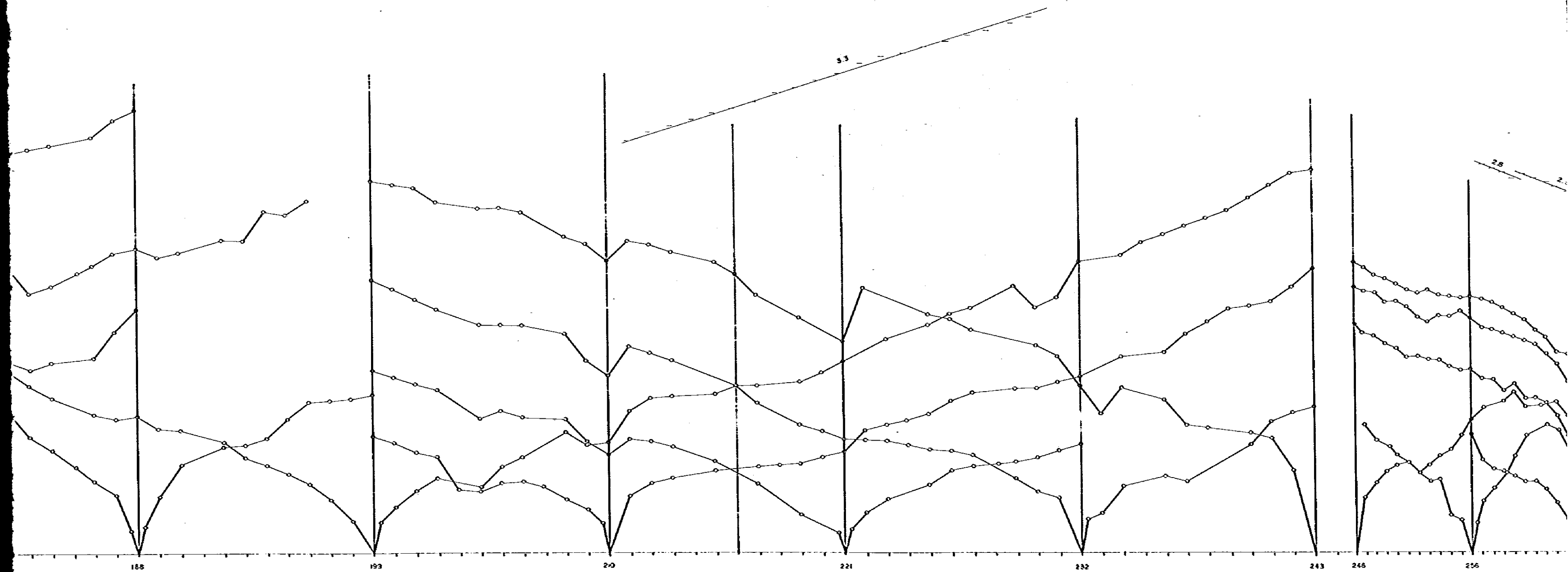
SEISMIC P  
HOR. SCALE  
VERT. SCALE  
VELOCITIES IN KM  
GEOPHONE INTERVAL

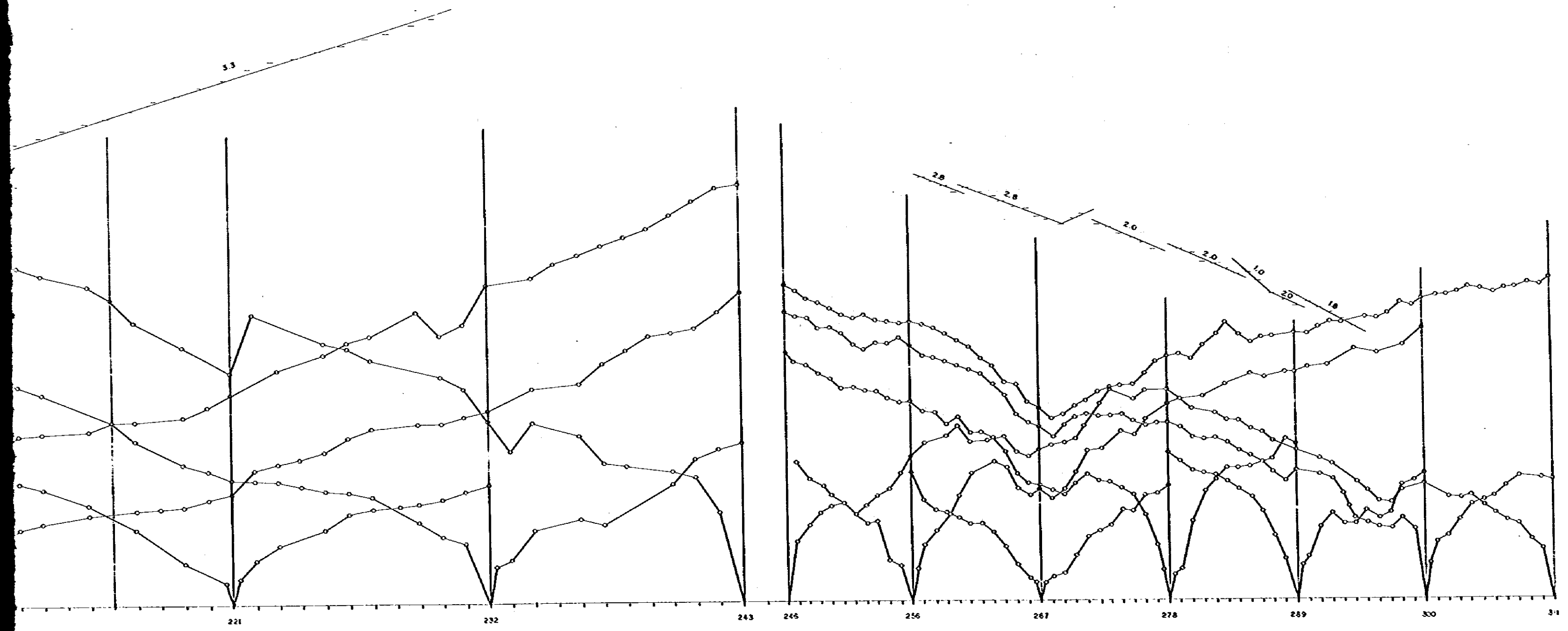


TRAVEL TIME CURVE  
SURVEY LINE S-1

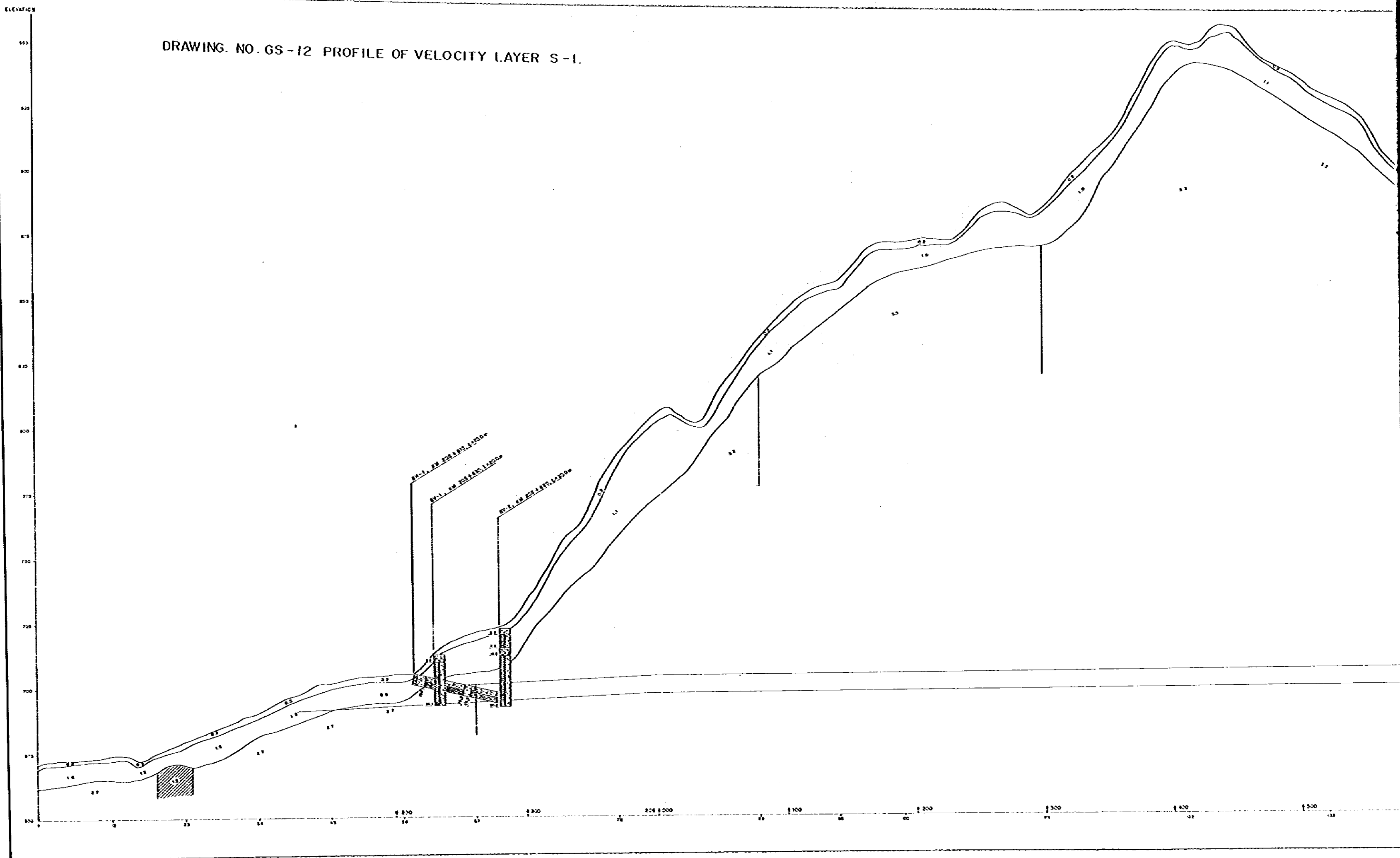
SEISMIC PROFILE  
HOR. SCALE 1:500  
VERT. SCALE 1:600  
VELOCITIES IN KM PER SECOND  
GEOPHONE INTERVAL: 5 MTS.

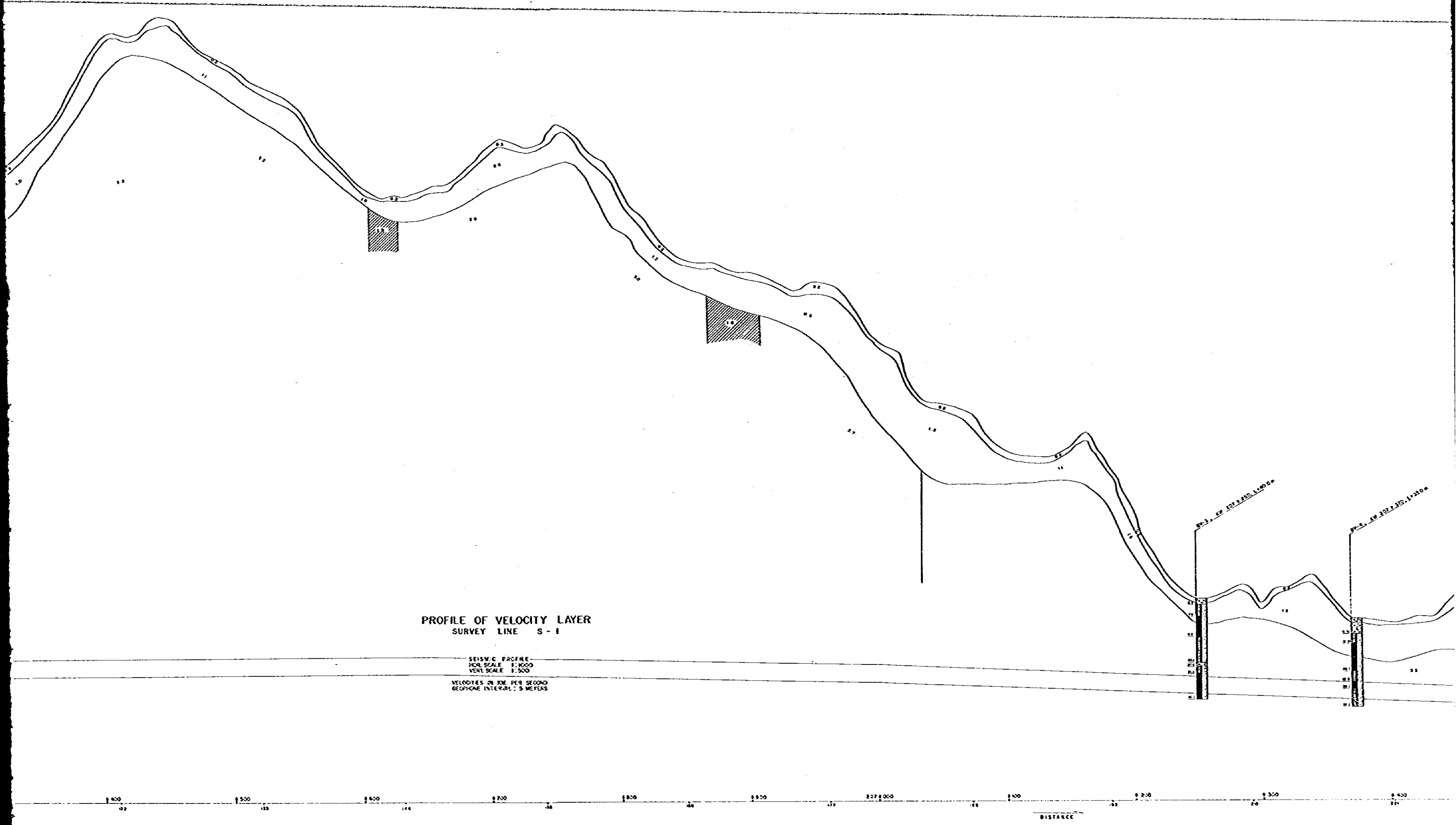






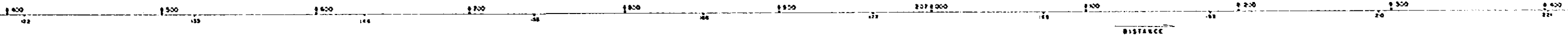
DRAWING. NO. GS-12 PROFILE OF VELOCITY LAYER S-1.

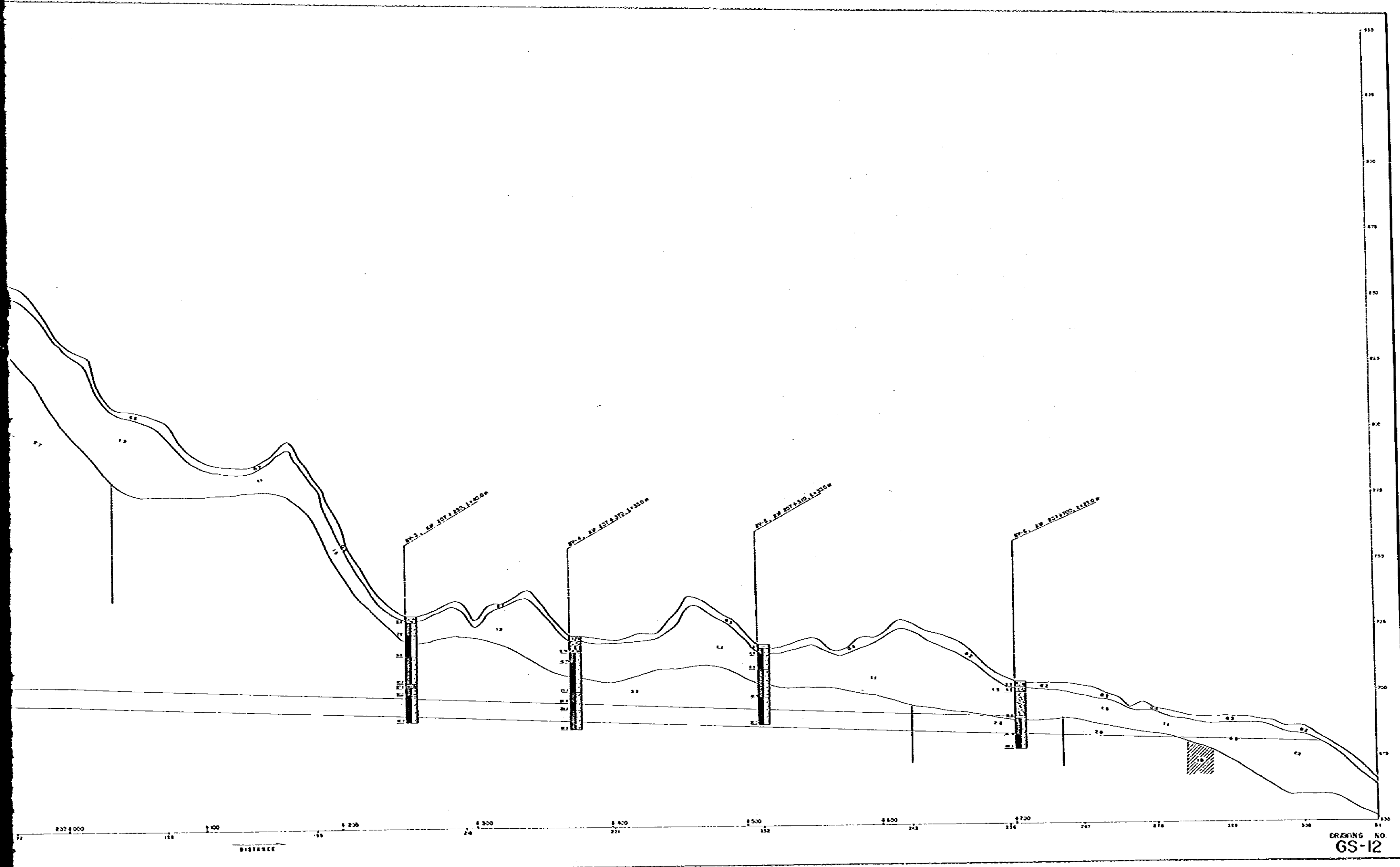




PROFILE OF VELOCITY LAYER  
SURVEY LINE S-1

SEISMIC PROFILE  
HOR SCALE 1:2000  
VERT SCALE 1:500  
VELOCITIES IN KM PER SECOND  
GEOPHIC INTERVAL: 5 METERS





DRAWING NO.  
GS-12