TABLE 4.1 (1/3) RESULT OF SOIL TESTS (CONSTRUCTION MATERIAL)

	ង		2						
,,	SERVEZE	10g	10.24 :1.0 :0.30 : shown in						
COKSOLIDATION	9	77.	8	99	.75 :	0.84 ::	.0.66		0.73
COKSOL		1.1 10.74 1	. 10	2.5	2.5	2.3 :0.94	2.6 :0		3.0.8
	3	10.21	0.24	0.26 :2.5 :0.36	0.25 :2.5 :0.75	9.21	10.19 :2.6		01.00
SSION	/cm2 :			1					1
AND STURE DENSITY COEFFICIENT : UNCONFIRED : RELATION OF COMPLESSION:	iqu kg/cm2	0.68	1.09	2.25	3.88	0.62	3.13		2.98
ITT:COEFFICIENT :UN OLL: OF :CO: :PERHEABILITT:		2 2	2 A X	92	2 9	10	9		9
OEFFIC OF EXHEAS	cm/sec.	2.6 × 10	1.3 × 10	2.8 x 1	2.4 x 10	1.0 × 10	1.3 × 10		2.6 × 10
2011. 2011.	toric I show glee :	1.53 :	1.76	1.60 1	1.70	1.32	1.52	1.94	1.91
ATTERBERG LIMIT: RELATION OF SOIL:	ğ		1	ļ	ļ. ģ u u u u	ļ			
REAT	E OHC Z	23.0	30 : 12 : 19.6 30 : 9 : 27 : 27 : 21 : 19.2	21 ; 18.3 23 ; 17.3 19 : 17.3	29 : 23.6 32 : 14 : 18.7	111 : 19.0 23 : 31.5	24.1	12.6	13.0
LIMIT	I.	222	122		t .		~ · · · · ·		<u> </u>
RBERG	ᆲ	81 11 14			24 27 29 29 29 29	82 52 73 78	33 : 26 33 : 26	2 4	41 : 22
	1	* 12 B	2,50	84 44 4	8 4 2	25 25 25 25 25 25 25 25 25 25 25 25 25 2	1	# H	<u> </u>
SPECIFIC: MOISTURE GRAVITY : CONTENT		18.3 18.5 24.5	26.9	19.3 19.1 29.8	24.6	12.9 11.8 55.5	27.4 26.8 28.5	30.1	20.62
SPECIFIC: MOISTURA GRAVITY : CONTENT	-	19 52 5	864	226	0.33	228	2 % %	444	lass
SPECI	Ì	2.61	2.72	2.51	2.68	2.74	2.69	2.74	25.27
	1200	***	888	222	2.2.2	523	222	72 82	2 2 2 3
PASSING	f10 : f40 : f200	28.8	63	5 6 2	87	8 8 0	000	66	2 8 8
н	1 F10	2 2 2	828	828	223	88		100	8 8 9 1
rsis		222	28.28	8 8 8	86.6	8 9			98.5
VHALYSIS	13/8" 1 44	888	282		222	88		<u> </u>	88
2431			888	<u> </u>	1 1 1 1			! ! !	• • • • • • • •
CLASSIFICATION:	13/4"11/2"								
UNITED SOIL CLASSIFICATION	1							1 5 5	
AINE ASSIT		병 병	보 님	보보	요 뉙	넑 및	보보	ᄶᄫ	ង៩
	-								
SOIL DESCRIPTION		clay clay	H f	1.00-1.20; Clayey silt 4.50-5.00; Sendy silt W/	clay offi	10.90-1.40; Clayey silt 12.80-3.80; Clayey silt	, allt	10 10 10	sand clay
SOTL		SLLTY	Sandy clay Silty	Clayey Sendy a	Stitey	C1 23°	Sklt Claye	Sile	\$115 \$114
DEPTH :	*	11.00-1.05; Silty clay 1 14.90-5.00; Silty clay 1	10.90-1.20: Sandy silt : clay : clay clay : 5.00-5.10: Silty clay	-1.20:	1.90-1.05: Silty clay 15.00-5.10: Clayey sil:	:0.90-1.40: Clayoy silt:	10.90-1.10: Silt	11.90-2.00: S1lt	10.95-1.10: Silty sand
a	-	11.00-1.05; Silty clay 14.90-5.00; Silty clay	1 :0.90-1.20: Sandy sile w/ 1 :0.90-1.20: Sandy sile w/ 2 :5.00-5.10: Siley clay	:1.00-1.20; Clayey at 4.50-5.00; Sendy si	:1.90-2.05: Silty clay :5.00-5.10: Clayey silt	12.80	:0.90-1.10: Silt :2.60-3.60: Clayey silt	11.90-2.00: Silty sand :4.50-5.00: Silt	13.69
SAMPLE)		- 8	7		H 71	- 2	4 6	- 4	- 4
ദ്		TS1-1	TS1-2	TS2-1 : 2	TS2-2	TS3-1	TS3-2	TS4-1	TS4-2
LOCATION TEST PIT N		H H H H,	4						
_E	<u>.</u> į								

Note: Sieve sizes converted to millimeter, 3/40-19.05 mm, 1/2 " - 12.7 mm, 3/8" - 9.595 mm, \$4-4.75 mm, \$10 -2.0 mm, \$40 - 0.0425, \$200 - 0.075

TABLE 4.1 (2/3) RESULT OF SOIL TESTS (CONSTRUCTION MATERIAL)

Note: Sieve sizes converted to milifter, 3/4*-19.05 mm, 1/2 mm, 1/2 mm, 3/8* + 9.595 mm, #4 - 4.75 mm, #10 - 2.0 mm, # 40 - 0.0425, # 200 - 0.075

TABLE 4.1 (3/3) RESULT OF SOIL TESTS (CONSTRUCTION HATERIAL)

ATION	: REMARS		Curves are : shown in : Appendix. 84 :				m ne sa se s		,	
N: CONSOLIDATION	00: 20: 20: 2	10.24 :2.5 :0.84	10.23 :1.4 :0.84	.0.22 :0.5 :I.0I	.0.22 22.6 .0.97					
: COMPRESSION:	iqu kg/cm2 : Ce	1.17	2.01	2.33	2.79	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.98	2.39		
HOLSTURE-DENSITY: COEFFICIENT : UNCONFINED : COMPRESSION :	cm/sac.	ж ж 10	2.3 × 10 2.9 × 10	6.0 x 10	2.3 × 10		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
RE-DENSITY: ON OF SOIL:		1.52	1.65	1.46	1.77	1.93		1.44	1.99	1.63
ATTERBERG LIMIT: RELATION OF SOIL:	: PI :OMC I :MDD g/cc	30: 25.2	16 18.5	19 : 23.8 19 : 27 : 21.7	32 17.1	2	11 : 21.6	1 19 2 29.9	12.4	22.3
ATTERBERG L		59 : 29 : 59 : 29 : : Nº :	37 : 21 : 37 : 22 : 40 : 23 :	45 : 26 : 43 : 24 : 64 : 37 :	59 : 28		42 7 31	58 239	Z.	2
		22.22 22.98 20.54	26.4 : 25.9 : 16.5 :	21.7 1 21.6 1 30.6 1	25.4 : 24.9 : macerial)	23.1	38.7	32.4	10.2	11.8
SPECIFIC: NATURAL		2.67	3 : 2.58 7 : 2.64 8 : 2.63	96 : 2.54 63 : 2.52 63 : 2.67	45 : 2.59 45 : 2.59 sted as soil	2.64	67 2.53	91 : 2.73	19 1 2.80	41 : 2.72
PASSING	1 110 : 640 : 6200 :	: 81 : 63 : 80 : 64 : 74 : 55	. 83 : 33 . 88 : 77 . 89 : 78	100 : 90 : 73 : 63	60 : 45 : 45 : 45 : 10 : 10 : 10 : 10 : 10 : 10 : 10 : 1	87	66	6	88	. 28 .
н		100 1 98 100 1 96 100 1 85	100	88 : 85 87 : 85	100 97 94 60 45 100 100 96 194 61 45 1	76 1001	100		100	001 :
SIEVE ANALYSIS	314":112" :318" : 14	B # # #		100	100 : 100 : (Nerriaved			- · · · · · · · · · · · · · · · · · · ·		
1 !	:3/4":1		#,							
1 UNIFIED SOIL :	military :	8 H	S 3	당 포	မွ	KS.	보	보	5	
JIOS	- 7	10.95-1.10: Silty clay 14.90-5.00: Sandy alle	1.50-2.50; Clayoy sand 13:50-5.00; Siley clay	10.90-1.00: Silty clay	10.90-1.10: Clayoy sand	.00 : Silty sand	1.00-1.10: Sandy silt	:0.90-1.10: Sandy silt	2.00-5.00: SLlty sand	:0.00-6.84: SLlty sand
EFFE X		:0.95-1.10: ;4.90-5.00:	1.50-2.50:	:0.90-1.00: :1.65-2.80:	:0.90-[.10: Clayoy sa: :1.68-2.03: Siltatons	1.00	1.00-1.10	.0.90-1.10:	2.00-5.00:	10.00-6.841
LOCATION SAMPLE:	1 m. 1 m.	159-1: 2	TS9-2 1	- 2	2	TA1-2 :	TA3-2 :	TA 5 TAS-2	TA6-1 :	TA7-1
LOCATION	7 (51):	, ,, ,, ,, ,,				4	1	77.5	11	

Note: Steve sizes converted to millimeter, 3/4" - 19.05 mm, 1/2 " - 12.7 mm, 3/8" - 9.595 mm, f4 - 4.75 mm, f10 - 2.0 mm, f40 - 0.0425, f200 - 0.075

TABLE 4.2 (1/2) RESULTS OF AGGREGATE TESTS (CONSTRUCTION MATERIAL)

							-:										١				
							SIEVE	VE	ARAL	ANALYSIS	2	PASSING	1		, BULK :SPECI	, BULK : BULK :APPARENT: .:SPECIFIC:SPECIFIC:SPECIFIC:	K :APP. IFIC:SPE	: SPECIFIC:		••	ORGANIC
LOCATION	ION : DEPTH	soll Description	UNITED SOIL SAMPLE:	SAMPLE		COARSE	COARSE ACCRECATES	TES			E	FINE ACCR.	ACCRECATES		CRA	GRAVITY :GRAVITY :GRAVITY :ABSORFII:SOUNDNESS	IIT :CRA	MTT :AB	SORPTIES	OUNDAZSS :	IMPURITIES
ST.	:(TEST PIT NO.1: m.		ccassification: TYPE :	ON: TYPE:	:2-1/2": 2"	:1-1/2":	:	:3/4" :1/2" :3/8"	2" :3/8"	. 44	18 : 1	: #16 : #30 : #50 :#100 :#200 : (DRY)	150	1100 : 17	(D)	(X) : (SSD)	: (0	-			
	TAI-1:0.00-2.10: Sandy gravel	0: Sandy gravel 1 (Brown to grayfah brown):	65	PINE : COARSE: 100	100 : 96	83	23	60 13	32 : 17	· · ·	: (17	2 : 2				2.75 : 2.	2.67 : 2	2.86 :	1.4.3	0.4	N4.1
7 2	TA1-2 : 5.00	TAI-2: 5.00 : Poorly graded sand	dS :	FINE 1 COARSE: 100	100 1 93	79	61	43 : 22	2 : 13	5	۷, ,	2 7 1	-	0	2,2	2.69 : 2.	2.69 : 2	2.87	2.2	2.4	Subscantial
	:TAZ-1 :0.30-1.30: Po	:TA2-1 :0:30-1:30: Poorly graded sand :TA2-1 :0:30-1:30: with sile : : : : : : : : : : : : : : : : : : :	HS-4S	PINE :	100	88	87	73 : 44	4 8 8	4	4	7	0	0		2.47 : 2.2.75 : 2.	2.58 : 2	2.76 : 2.84 :	1.2	2.7	MI
TA 2	TAZ-2 :0.33-1.00: Poorly :	TAZ-Z :0,33-1.00: Poorly graded sand : (Gray)	ds .	FINE		100 : 88	. 77	\$: 99	54 : 35	-3	4	n .	7	0	2 2 2	2.70 : 2.	2.68 : 2	2.81 : 2.84 :	2.7 :	7.3	Substantial
ĺ	TA3-1 :1.00-1.:	TAT-1: 1.00-1.50: Poorly graded sand with salk	HS to S	FINE		100	92	83 17	72 : 44	2	v	e -	2	0	0	2.69 : 2.	2.52 : 2	2.67 : 2.81 :	1.6	9.7	Substantial
ត វ	:TA3-2 :	Teared as soil samples						, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	, ·												
		3.00: Silty sand ; (Graylah brown)	ES.	FINE		1 1 1 1 1 1 1 1 1 1 1 1						100	80	63	12 : 2	2.57 : 2	2.65 ; 2	2.79	7	2.4	Substantial
4	TA4-2 :1.70-3.6	TA4-2 :1.70-3:68: Poorly graded sand : (Gray to light gray)	şs	FINE :								100 : 98	80	52 :	113 1 2	2.60 : 2		2.86	3.5	3.9	NGA
ļ .	1	:TAS-1 :1,00-2.00: Poorly graded sand	SS	TINE							100 : 89	97 : 68	28	01	7	2.40 : 2	2.48 ; 2	2.61 :	7	7.7	N.T.
o ¥	TA5-2 :	Tested as soil	. 1. 1.							·· ·			** **								
.																					

Note: Steve sizes converted to millimeter, 3/4"- 19.05 um, 1/2"-12.7 um, 3/8" - 9.595 um, 84- 4.75 um, \$10-2.0 um, \$40- 0.0425, \$200- 0.075

TABLE 4.2 (2/2) RESULTS OF ACCRECATE TESTS (CONSTRUCTION MATERIAL)

	ORCANIC								Substancial	Substantial	17#	Substantial
	SOUNDNESS		*	0.4			8:9	5.2	-	3.3	5.3	4.6
	ABSORPTI::	H		2.1		2.5	6.5	3.6	4.3	4.7	2.5	3.1.2
APPARTME	SPECIFIC: SPECIFIC: SPECIFIC: GRAVITY : GRAVIT			2.75		2.84	2.74	2.78	2.72	2.87	2.47	2.88
2 BUX	SPECIFIC	(GSS) :		2.66		2.58	2.52	2.62	2.54	2.79	2.71	2.67
: BULK	SPECIFIC	: (DRY)		2.60		2.45	2.39	2.53	2.43	2.67	2.33	2.59
		0 : /200		<u> </u>		6	6		9	<u>g</u>	2	
	SES	: #16 : #30 : #50 :#100 :#200 : (Day)		80 : 25	.,	-	87 : 22		92 : 87	55 42		
PASSING	ACCRECATES	: 130 :		28		2	16	2	201	25	80	2
7 24	FINE			100:99			2		İ	<u>g</u>	8	1
SIS		14 : 18	. ** **	 .			98 1 97	 		99 : 87	24 : 23	[2
ANALYSIS		:3/8 ;				. 62	001	17		001	2	. 22
SIEVE	ECATES	13/4" 11/2" 13/8" ; 14				9/		79 7			87	8
	COARSE ACCRECATES					89 : 85		100 2 89	., .,			001
	8	:1-1/2"; 1"				8						
		/2": 2" ;				1 001						
	PLE:	12-1/		FINE		PINE :	FINE	FINE	TINE :	RSE	PINE	FINE :
	DIL SAM	.	** **	NIT.		: FINE : COARSE	: FINE : COARSE	FINE	FINE	: TINE : COARSE	PINE	: CDA
	UNITIED SOIL SAMPLE:		٠.	6	: : : :	5	HS-ds	꾮	as .	ds ·	RS-4S	Sp
		"	** **									
	SOIL DESCRIPTION		Too	ay)	3041	vel.	purs peps	, y s	aded sand	sded sand gray)	des sand	aded sand
	2011 D		Tested as soil	Silty sand (Light gray)	Tested as soil	Sandy gravel (Dark gray)	Poorly gra with silt (Gray)	Siley sand (Light gray)): Poorly gr. : (Gray)	Poorly graded s with silt (Brown to gray)	Poorly gr wheh silt (Brown)	Poorly gray)
	DEPTE :	*		TA6-2:1.50-3.00: Silty sand	TA7-1: Teste		. 44 40 78	TAB-2 :0.00-1.50: Siley send	TA9-1 :0.00-2.00: Poorly graded aand	TA9-2:0.00-1.00: Poorly graded sand : with sile : (Brown to gray)	8 1	22
		,	TA6-1 :	PA6-2:1.	TA7-1	TA7-2 :0.	TA8-1 :0.70-3.60	TA8-2 :0.00-1.50	TA9-1 :0.	IA9-2:0.	TA10-1:1.00-1.	EA10-2:1.
	CTEST PIT NO.):		11 i	;	Ē			•			01 \$1	N

Note: Sieve sizes converted to millimeter, 3/4" = 19.05 mm, 1/2" = 12.7 mm, 3/8" = 9.595 mm, 14 = 4.75 mm, 110-2.0 mm, 140- 0.0425, 2200 = 0.075

Table 4.3 EVALUATION OF DIKE MATERIALS

Test Pit No.	Item	Grain Size	Coef- ficient of Permea- bility	Plas- ticity Index	NMC OMC	Organic Material	Soil Mechanical Assessment	Remarks
TS 1	TS1-1	8	Α .	Α	В	В	Α	
19 T	TS1~2	В	Α	c	C	В	•	
TO 0	TS2-1	В	С	В	С	В		
TS 2	TS2-2	В	A	В	8	Α	- 8	
	T\$3-1	С	Α	С	D	В		. Trafficability problem
TS 3	TS3-2	C	c	D	С	В	D (C)	Be careful for Moisture Content
	TS4-1	С	c	D	С	С		. Be careful for
TS 4	TS4-2	В	С	c	С	c	C	Moisture Content
	TS5-1	С	С	c	D (C)	В	···	. Trafficability
TS 5	TS5-2	C	Α	В	0	В	D (C)	problem . Be careful for Moisture Content
	TS6-1	С	С	c	D (C)	В	<u> </u>	. Be careful for
TS 6	TS6-2	В	c	c	D (C)	В	C	Moisture Content
	TS7-1	С	Ċ	** D *.	С	В		. Be careful for
TS 7	TS7-2	c	В	C	C	В	, °C	Moisture Content
	TS8-1	8	C	С	.∴ C	В	·	. Soil of TS8-2
TS 8	TS8-2	Α	Α	В	В	Α	В	Area: Excellen
	TS9-1	В	В	С	8	В		
TS 9	TS9-2	A	A	В	8	В	A	
	TS10-1	c	A	В	В	В		
TS10	TS10-2	A	Α	В	c	В	• А	

Table 4.4 EVALUATION OF AGGREGATES

TA1-1	Item	cific Gravity				Mechanical	Remarks
		Gravity					
				ness	Impurity	Assessment	
	Fine	Α	0	Α	Α	:Fine C	. Aggregate should
	Coarse	A	Α	Α		C	be washed
A1-2		Α	D	A	С	Coarse B	
	Coarse	A	В	À			•
					·		
	r.;		. 0	n	Α	Eine P	A-manata abada
					A A		Aggregate should
				and the second second	_		be washed
					C	Coarse B	
	Coarse	A	Α -	В			
					·		
A3-1 I	Fine	В	D	В	С	Fine D	. TA3-2: Soil
		Α	A			0	
				•		Coarse D	
			· · · · · · · · · · · · · · · · · · ·				
	rana.				C	Cino C	Acaronata chaule
						rine t	. Aggregate should
A4-2 1	rine	A	υ	A	H		be washed
			~				
	rine	บ	_	8	Α	Fine U	. IA5-Z: 5011
A5-2							12
	_ 						
A6-1						Fine D	. TA6-1: Soil
A6-2 I	Fine	Α	8	Α	С		
			<u> </u>				
Δ7_1					. · · .	Fine C	. TA7-1: Gravel
	ino				Α		below soil
					A.		DEION SOLL
•	coarse	А	В	B			
						the second secon	
		Ą	D	В	D .		
. (Coarse	Α	Α	Α	*,	Coarse D	
A9-1 F	ine	В	D	Α	C	Fine C	. Aggregate should
A9-2 F	ine	A.	D	Α	C		be washed
					<u> </u>	· · · · · · · · · · · · · · · · · · ·	
		. D	• В	ъ В	Α	Fine C	. Aggregate should
		, А	В	Α			be washed
A10-2 F	ine	Α	C	Ą	C	Coarse A	
. (Coarse	A		Α			
						<u> </u>	
	A2-2 A3-1 A3-2 A4-1 A4-2 A5-1 A5-2 A6-1 A7-2 A7-1 A8-2 A9-2 A10-1 A10-2 A10-2	A6-1 A6-2 Fine	Coarse A A2-2 Fine A Coarse A A3-1 Fine B Coarse A A3-2 A4-1 Fine A A4-2 Fine A A4-2 Fine A A5-1 Fine D A5-2 A6-1 A6-2 Fine A Coarse A A8-1 Fine B A8-2 Fine A Coarse A A9-1 Fine B A9-2 Fine A Coarse A A10-1 Fine B A10-1 Fine A Coarse A	Coarse	Coarse A A B B A2-2 Fine A B B B Coarse A A B B A3-1 Fine B D B B A3-2 A4-1 Fine A C A A A4-2 Fine A D B A A5-2 A6-1 Fine A B A A A7-1 Fine A B B B Coarse A A A A A8-1 Fine B B B B Coarse A A A A A9-1 Fine B D A A9-2 Fine A D A A10-2 Fine A C A Coarse A A A	Coarse A B B C Coarse A A B B C Coarse A A B C C A C A C A A C C A A C C A C C A C C A C C A C	Coarse A A B B C Coarse C A3-1 Fine B D B C Fine D A3-1 Fine B D B C Fine D A3-2 Coarse D A4-1 Fine A C A C Fine C A4-2 Fine A D B A Fine C A5-1 Fine A D B A Fine D A5-2 Fine D A6-1 Fine D A7-1 Fine D B A8-1 Fine A B B Coarse A Coarse D A9-1

Table 4.5 CHARACTERISTICS OF SELECTED DIKE MATERIAL

Selected Site No.	Soil Mechanical Assessment(1)	Proposed Area (km)	Excavate Depth (m)	Potential Quantity (x10 m)	Remarks
TS 1	A	0.55	2.0	1.1	. Residual soil of Terrus . More available area
					. More available area . Problem of land use (cultivate land & - residence)
TS 2	В	1.5	2.0	3.0	. Residual soil of hilly area . Problem of land use
TS 4	C	0.50	2.0	1.0	. Alluvial deposit of swamp . Along Flood way channel
TS 8	B	2,50	1.0	2.5	. Alluvial deposit of plain . Land use (Rice field)
TS 9	A :	1.20	2.5	3.0	. Residual soil of undulating to hilly area
					. Problem of land use (cultivate land)
TS10	A	1.50	1.2	1.8	Thin residual soil of hilly area Problem of land use
(Total)	-		<u>-</u>	12.4 (x10 m)	· _

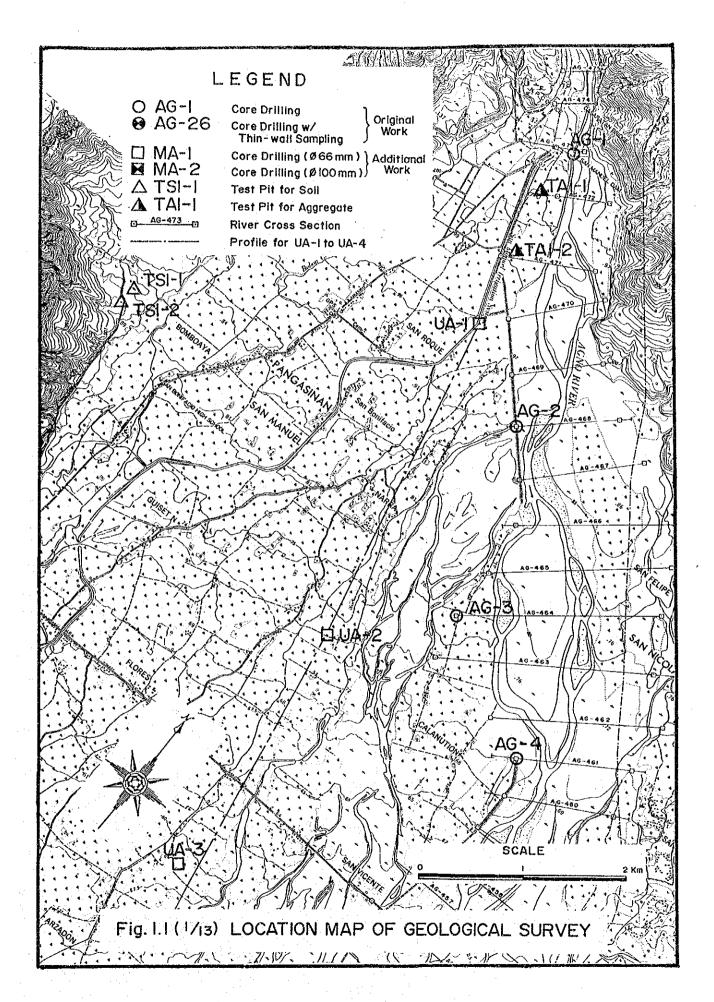
(1) A: Excellent B: Good C: Available

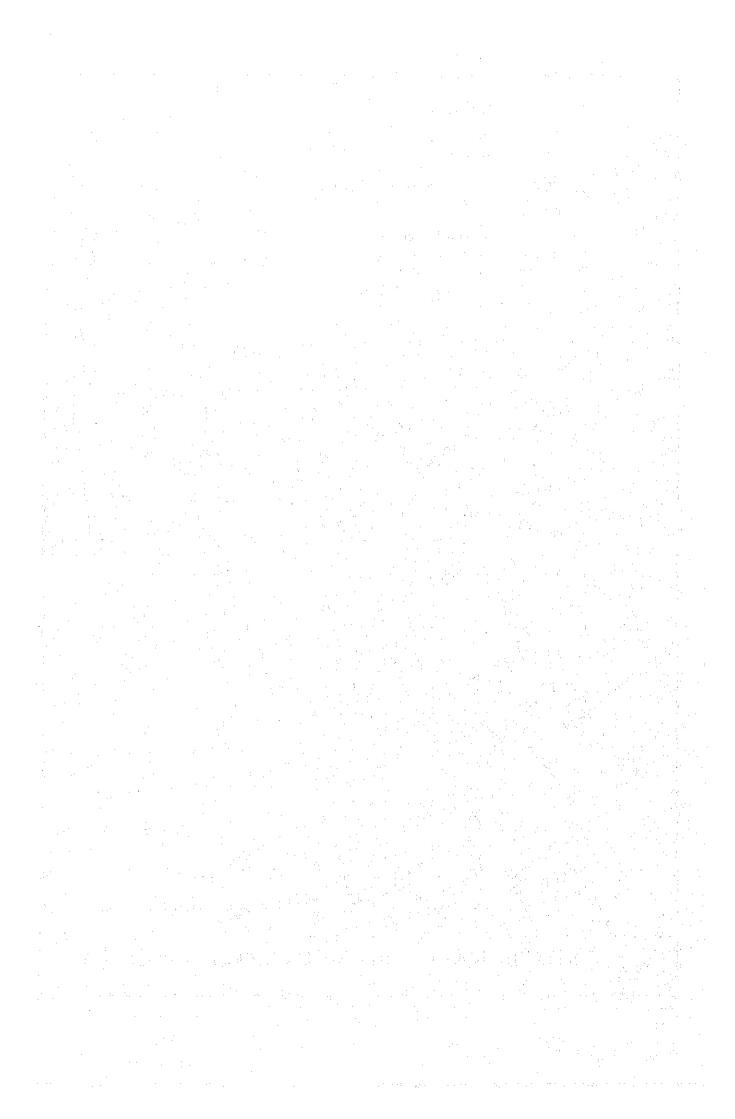
Table 4.6 CHARACTERISTICS OF SELECTED CONCRETE AGGREGATE

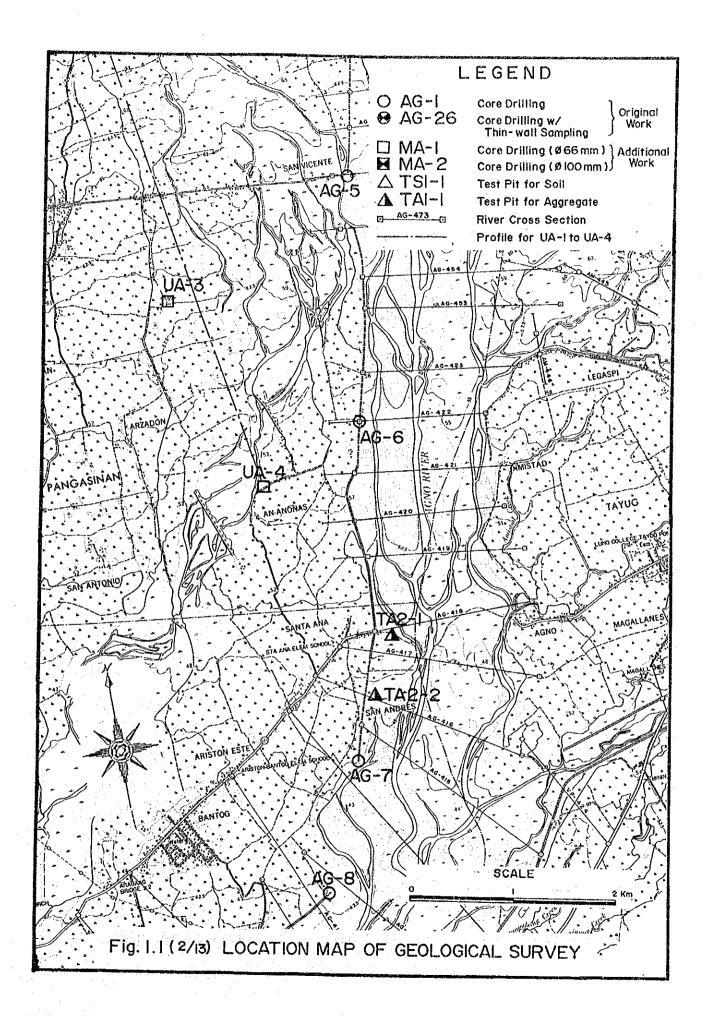
Selected Site	Soil Mechanical Assessment (1)	Proposed Area	Excavate Depth	Source	Potential	Quantity	Remarks
No.	Vasaaameur (1)	(km)	· (m)	- Journal of the second of the	% of Volume	Volume (m) (x10 m)	
TA 1	С	0.40	2.0	Fine Coarse	5% 70%	0.04	River bank of Upper Agno River Land use (Rice Field)
TA 2	C	0.50	1.0	Fine Coarse	5% 70%	0.02	. River bed of Upper Agno River
TA 4	C	0.70	2.0	Fine	50%	0.7	. River bank of Middle Agno R. (Carmen Br.)
TA 7	В	1.10	1.5	Fine Coarse	57 507	0.08	. River bed of Bued R More available area
TA 9	C	0.15	2.0	Fine	80%	0.24	. River bed of Aloragat
TAIO	B	0.25	1.0	Fine Coarse	15% 60%	0.03 0.1	. River bed of Aloragat River
(Total)				Fine Coarse	·		(x10 m) (x10 m)

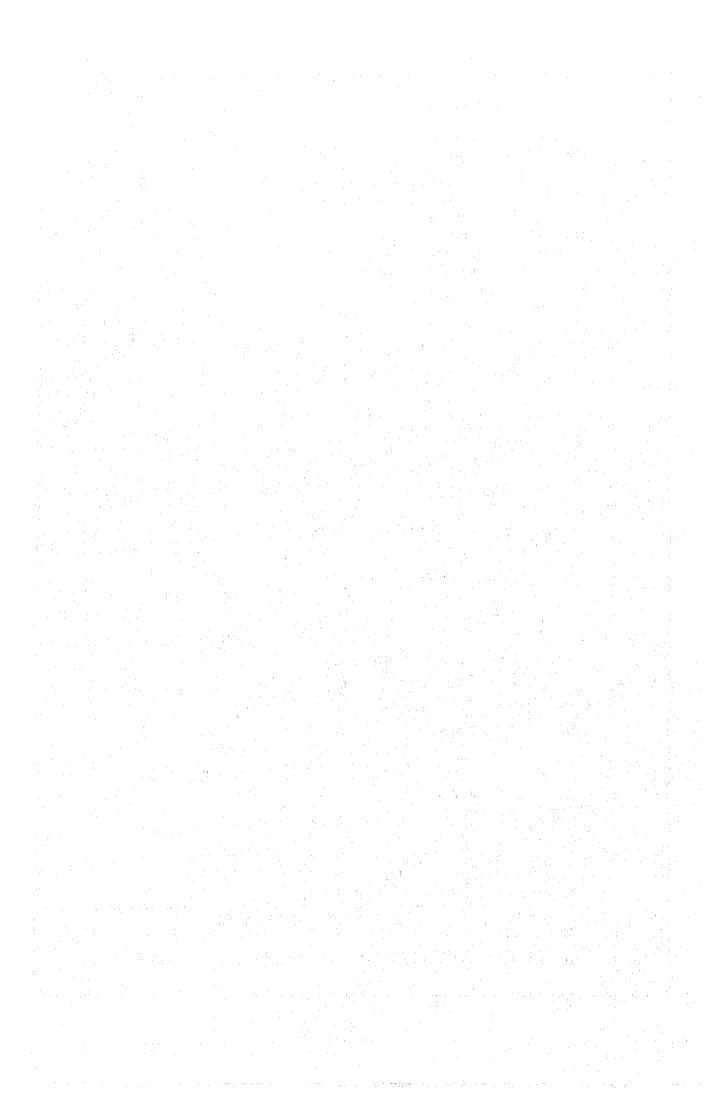
(1) A: Excellent B: Good C: Available

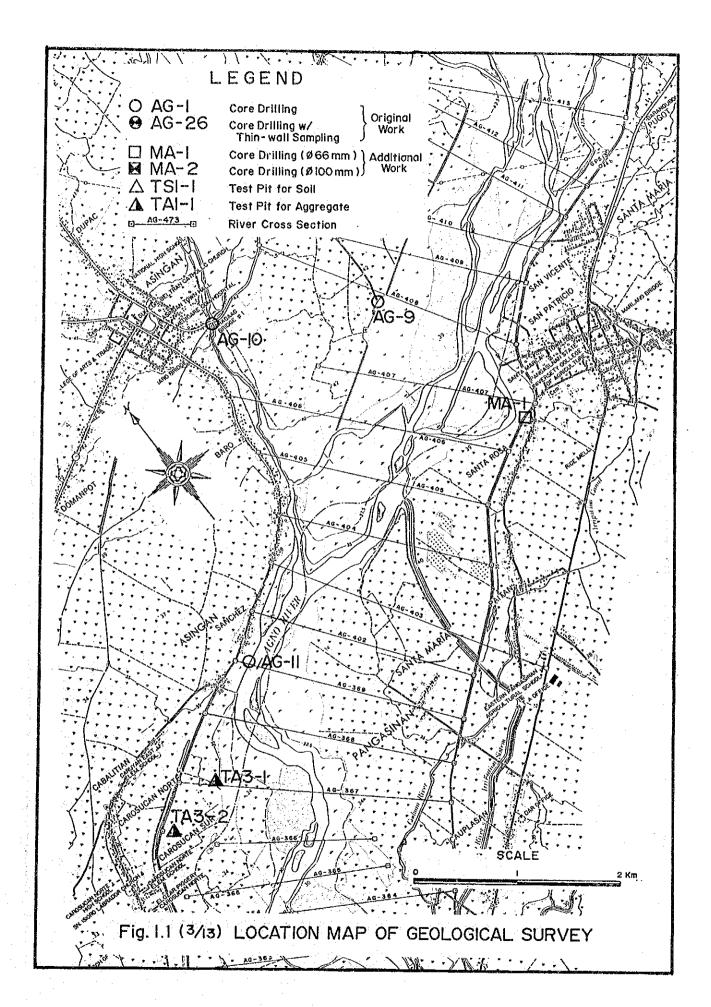
FIGURES

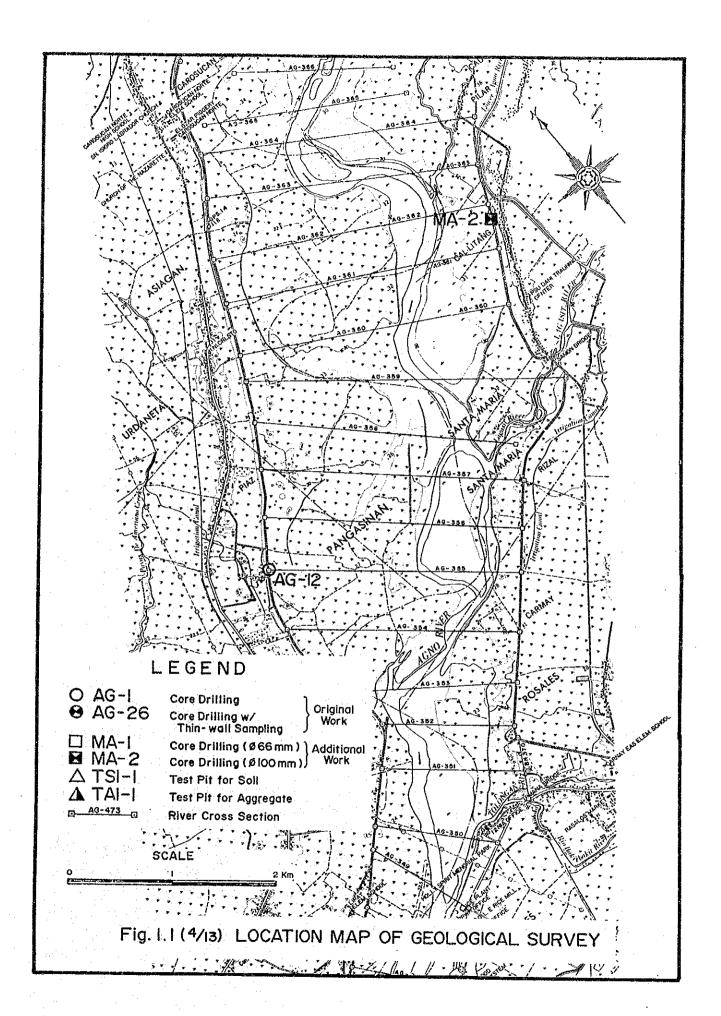


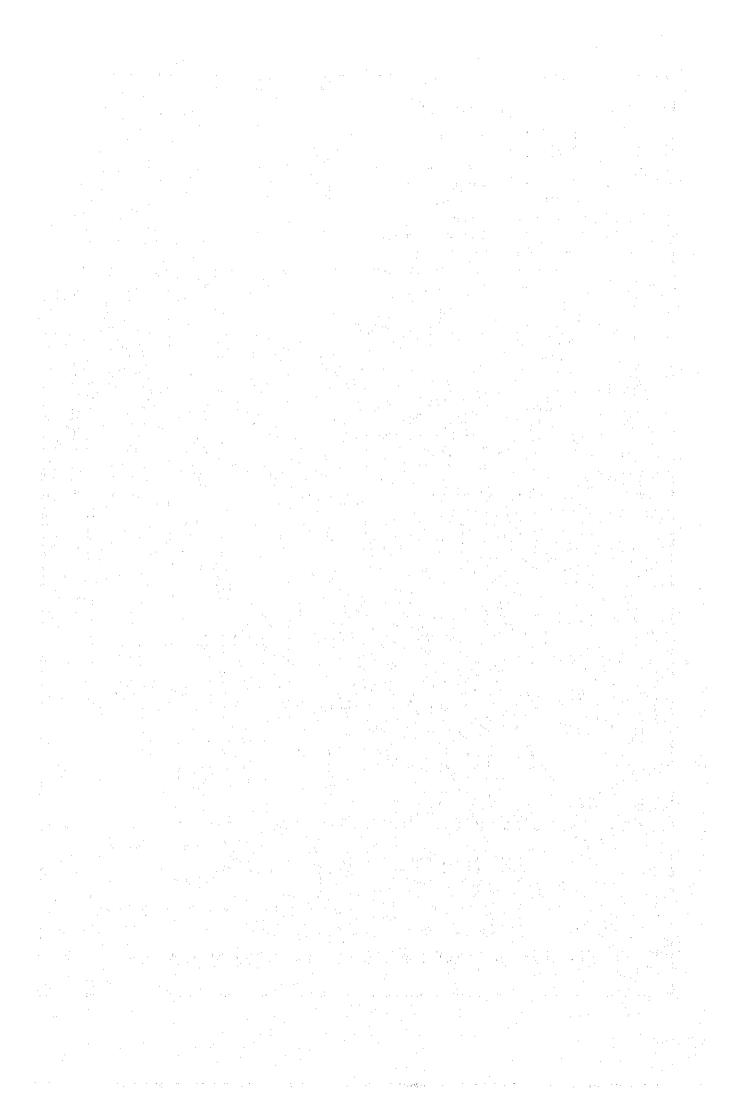


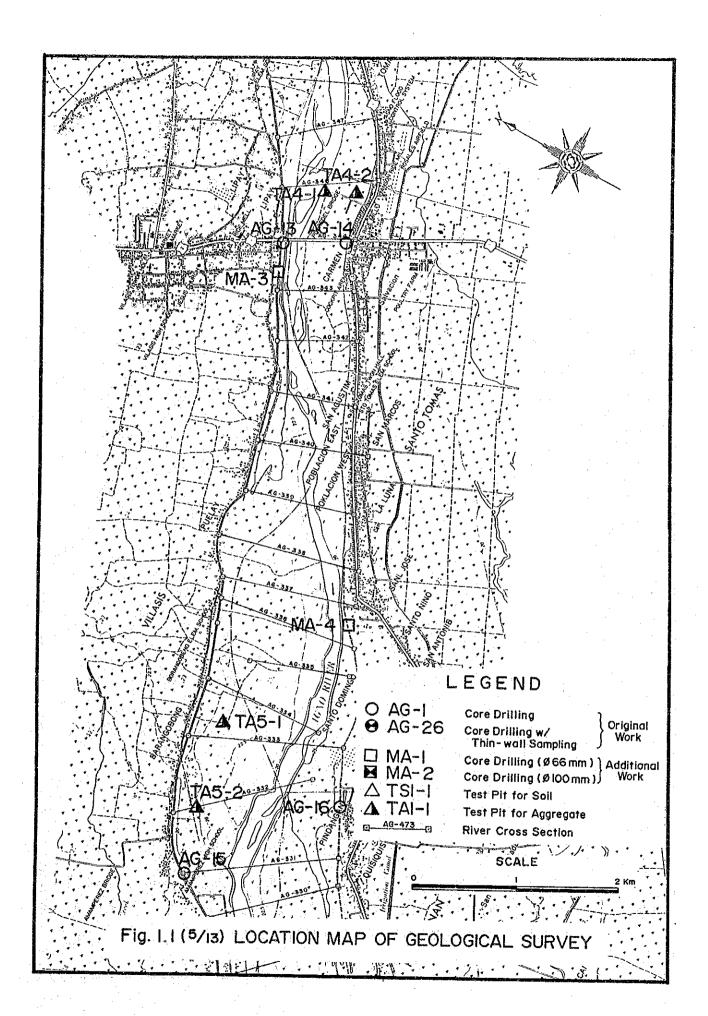


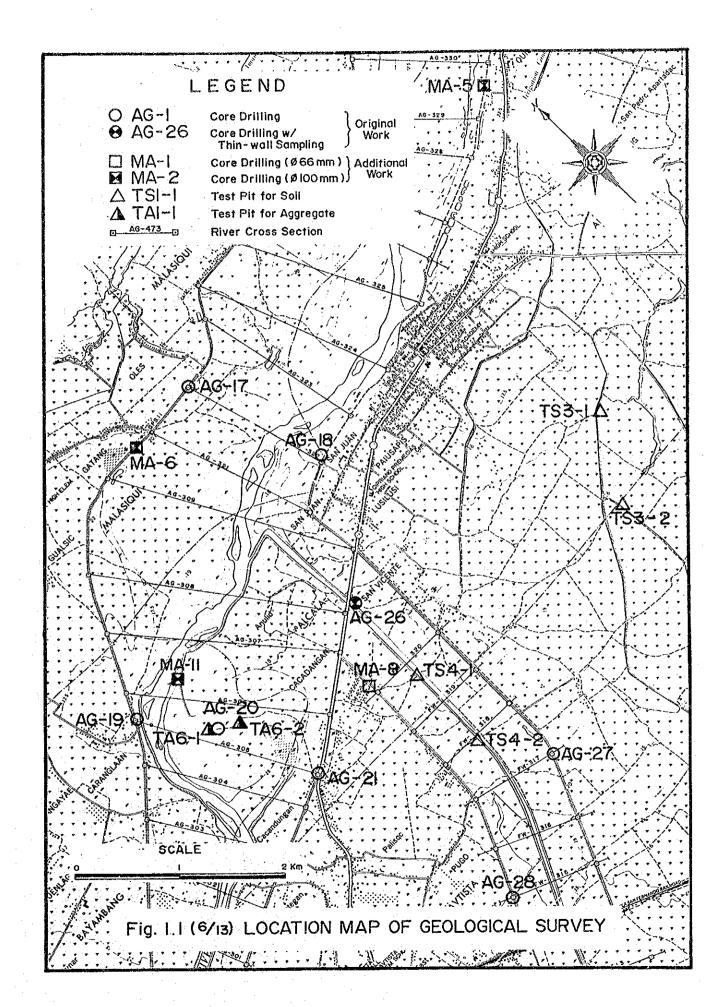


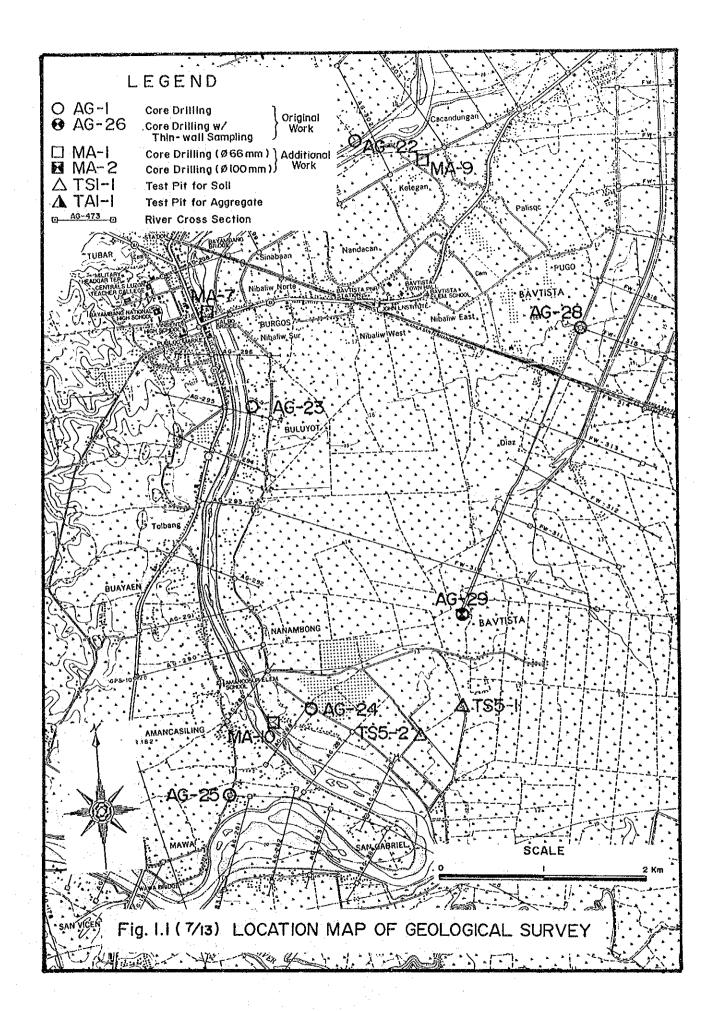


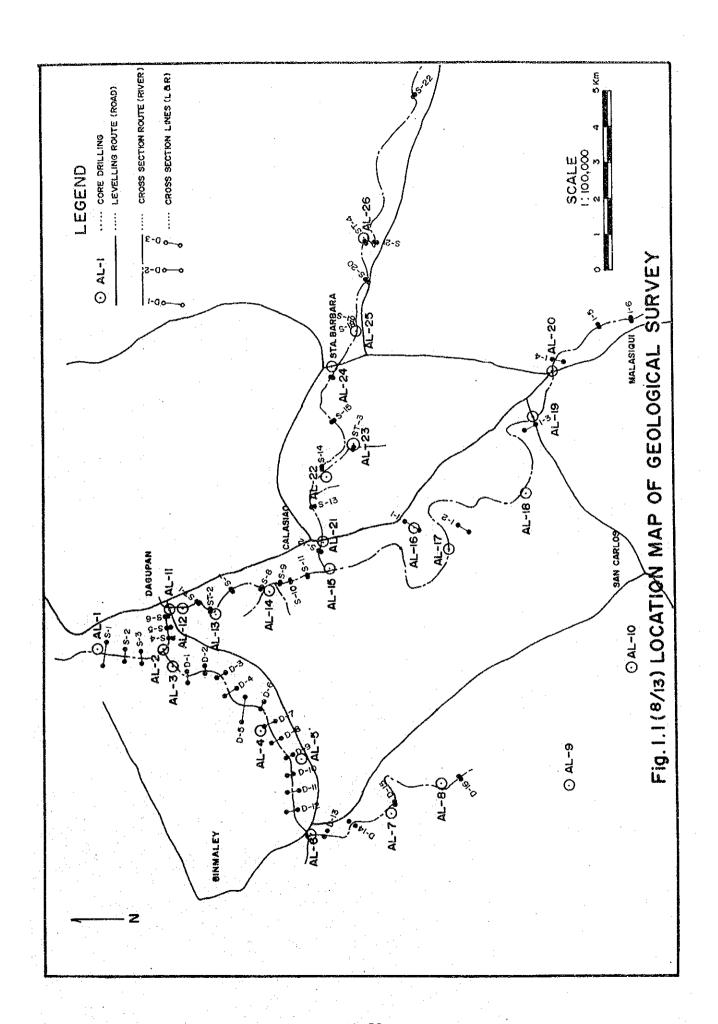


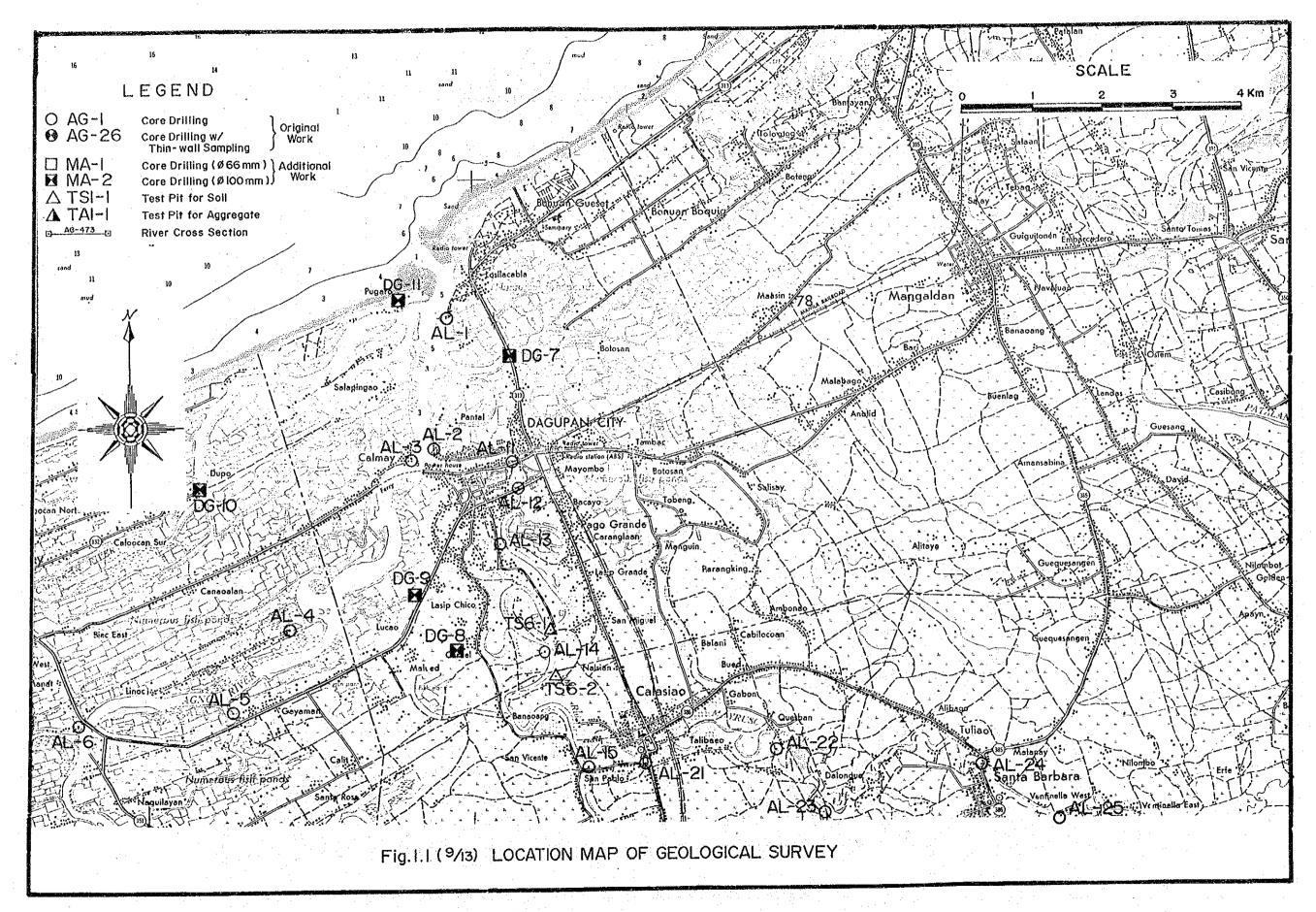


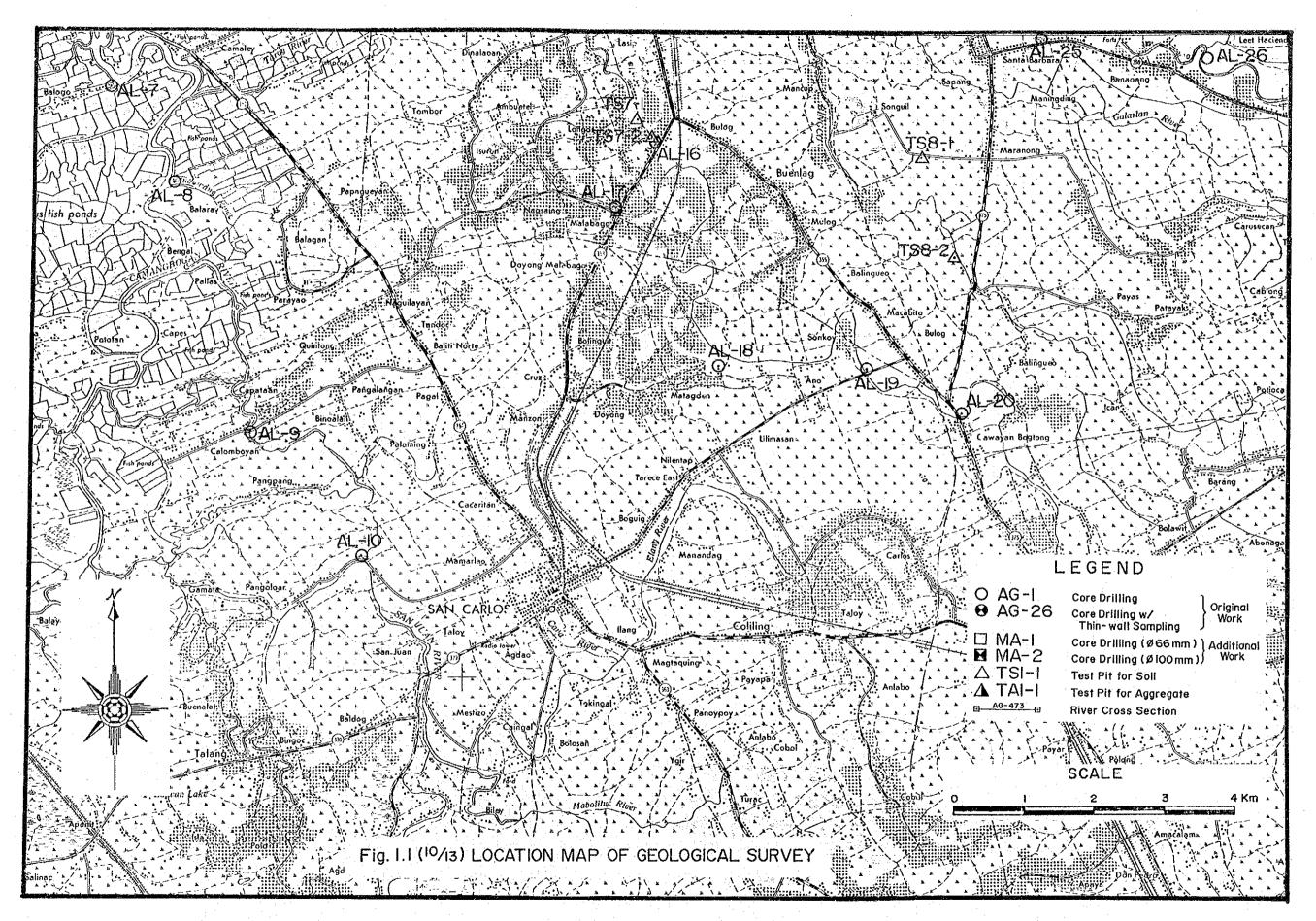




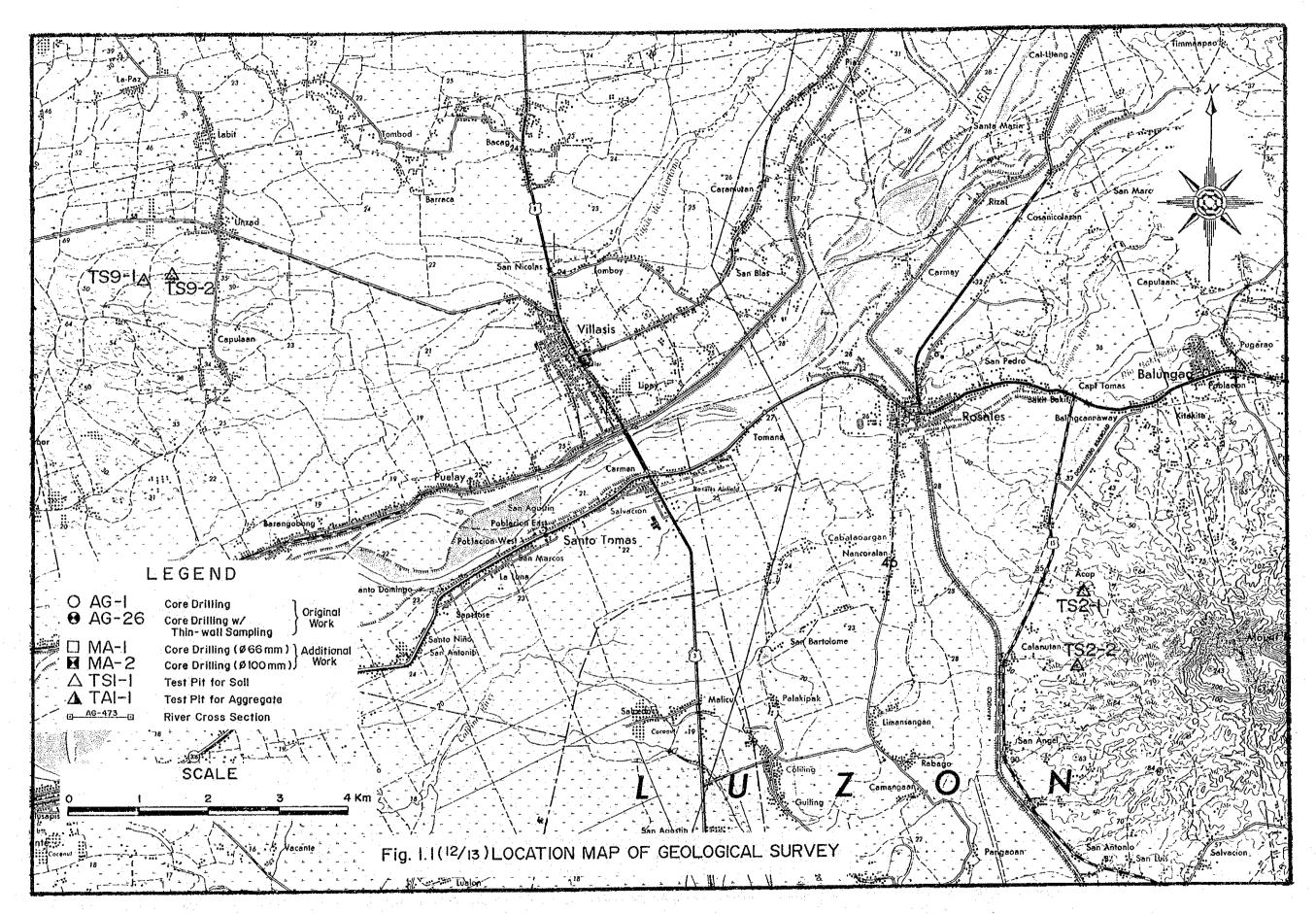


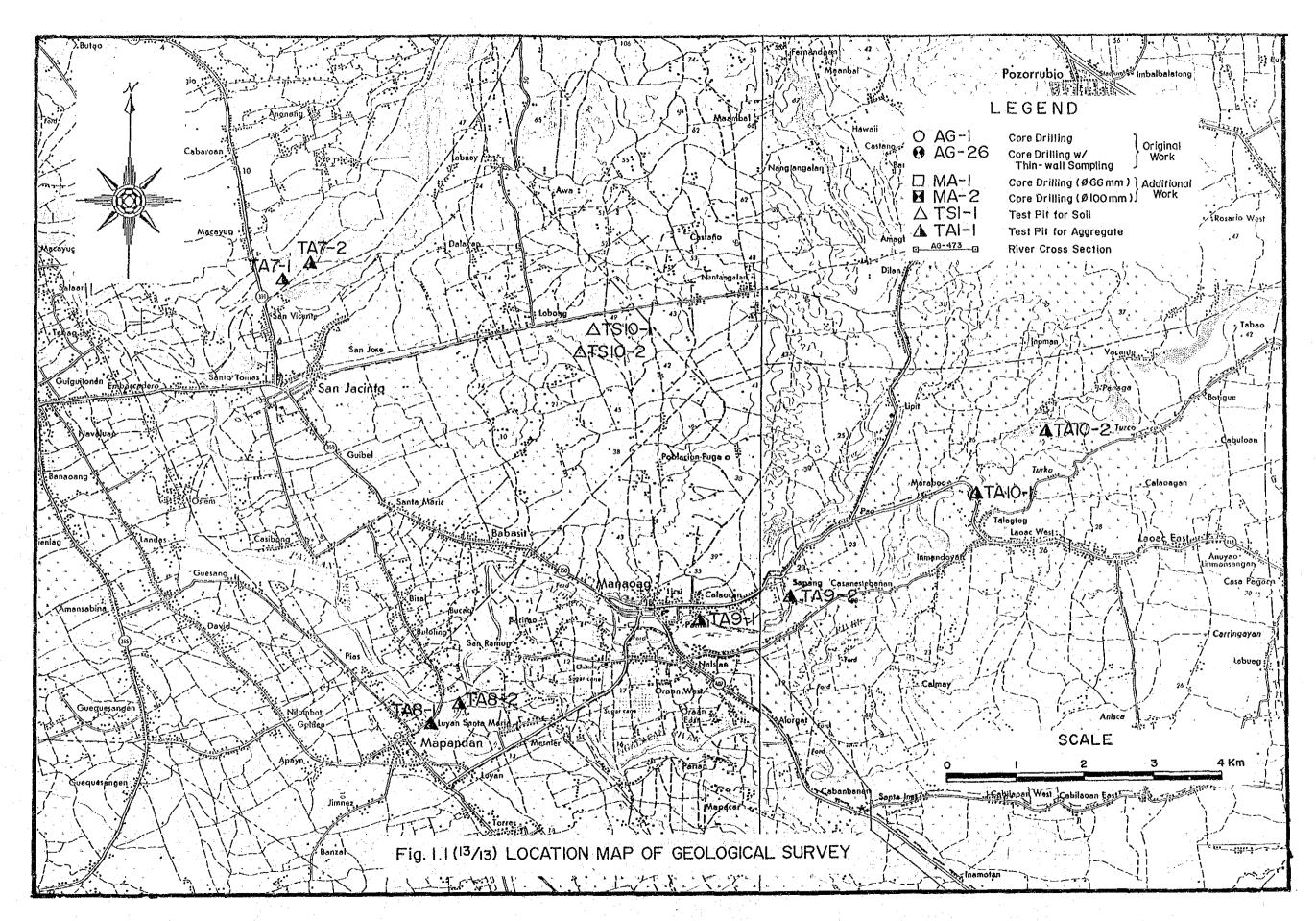


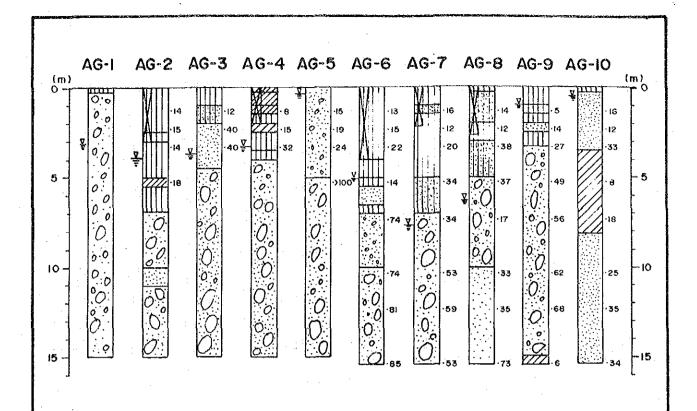


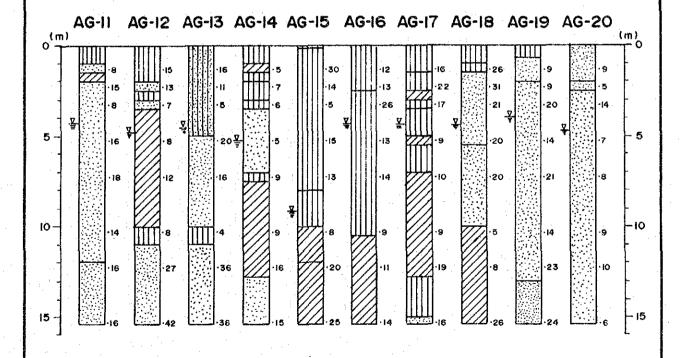








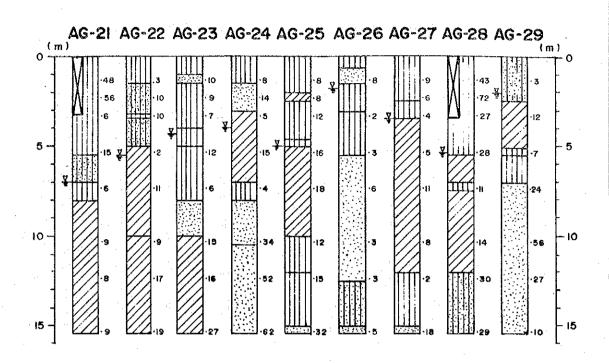




NOTE:

LEGEND SHOWN Fig. 2.1 (2/4)

Fig.2.1 (1/4)GEOLOGICAL LOG (AGNO RIVER)



LEGEND:

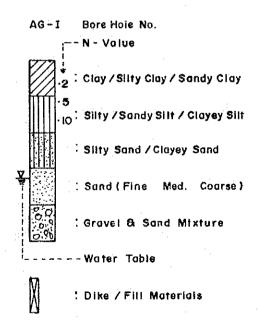
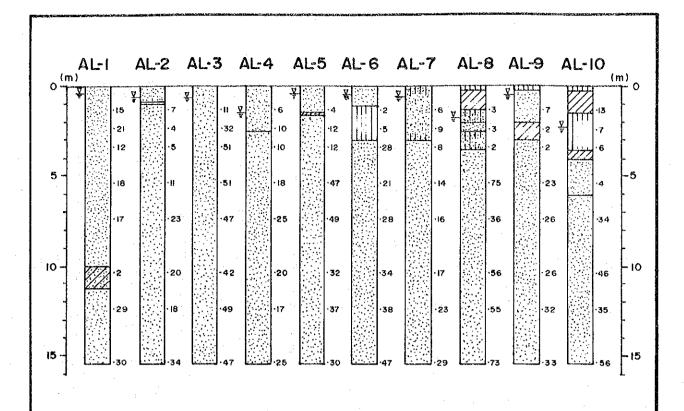
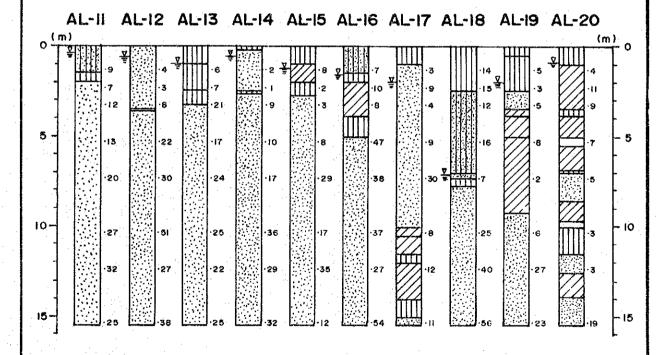


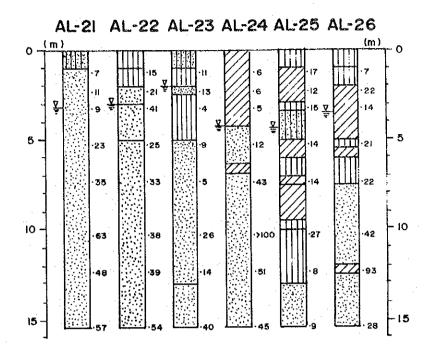
Fig. 2.1 (2/4) GEOLOGICAL LOG (AGNO RIVER)





NOTE: LEGEND SHOWN Fig. 2.1 (4/4)

Fig. 2.1 (3/4) GEOLOGICAL LOG (ALLIED RIVER)



LEGEND:

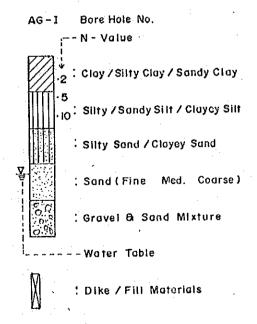
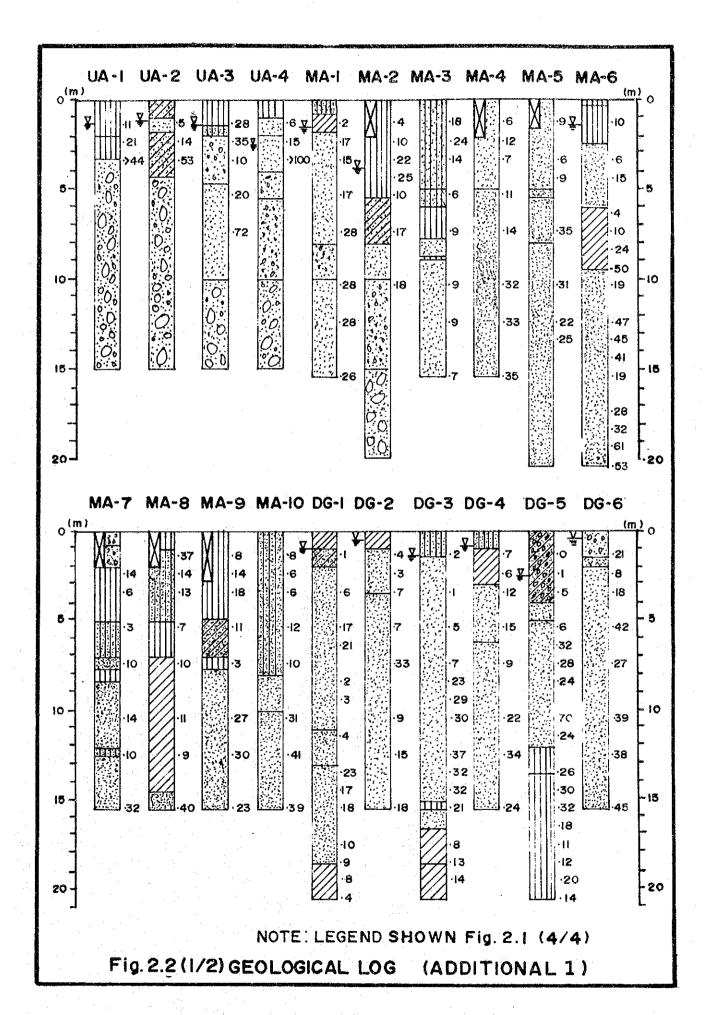
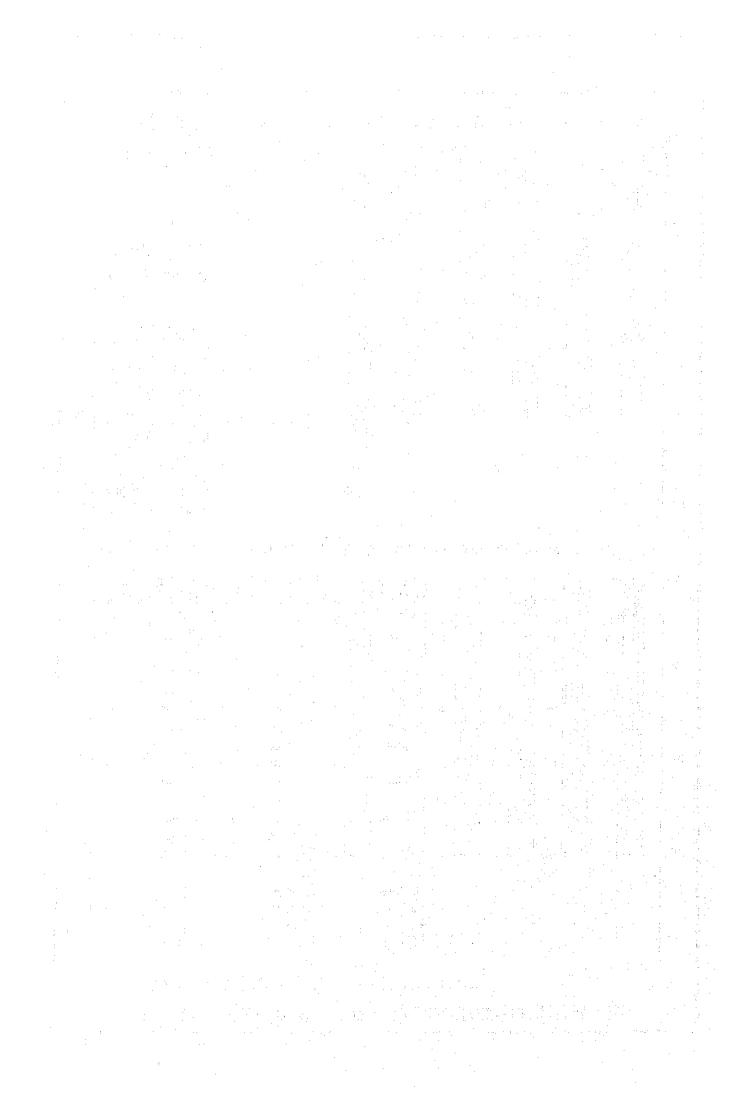
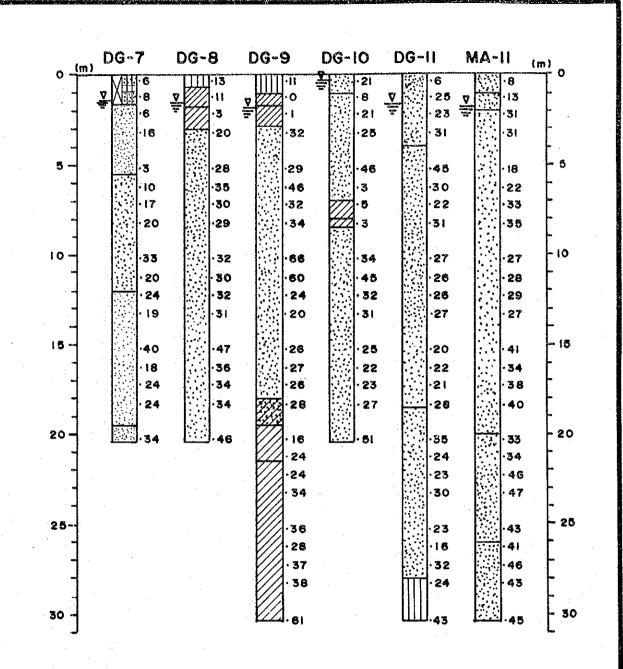


Fig. 2.1 (4/4) GEOLOGICAL LOG (ALLIED RIVER)







NOTE: LEGEND SHOWN Fig. 2.1 (4/4)

Fig. 2.2(2/2) GEOLOGICAL LOG (ADDITIONAL 2)

