SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (4/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	IMPACT TO ROAD	REMARKS
Jct. Biliran - Cabugcayan Rd.	24	11+400	Rock Fall/Debris Fall	Rock size 1-2 m.	Low	Brgy. Looc
Jct. Biliran - Cabugcayan Rd.	25	11+700	Rock Fall/Debris Fall	Rock size 1-3 m.	Low	Brgy. Looc
Jct. Biliran - Cabugcayan Rd.	26	13+200	Flooded/Muddy Road Surface	Scoured road surface due to insufficient drainage	Low	Brgy. Esperanza
Cross Country Road	27	8+700	Cut Slope Failure	Surface failure	Low	Continuous stationing from Junction Biliran
Cross Country Road	28	14+100	Cut Slope Failure	Surface failure	Low	Continuous stationing from Junction Biliran
Cross Country Road	29	14+600	Rock Fall/Debris Fall	Rock size 1-2 m.	Low	Continuous stationing from Junction Biliran
Naval - Almeria Road	30	2+000	Temporary Bridge Approach Washout	Bailey Bridge approach partially washout. Passable to traffic	Medium	Anas Bridge

SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (5/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	IMPACT TO ROAD	REMARKS
Almeria - Kawayan Road	31	2+500	Cut Slope Failure	Surface failure	Low	Brgy. Talahid
Almeria - Kawayan Road	32	3+000	Rock Fall/Debris Fall	Surface failure Dangerous rockfall	Low	Brgy. Talahid
Almeria - Kawayan Road	33	4+100	Cut Slope Failure	Surface failure	Low	Brgy. Talahid
Almeria - Kawayan Road	34	6+500	Cut Slope Failure	Surface failure	Low	Brgy. Tabonan
Almeria - Kawayan Road	35	7+000	Rock Fall/Debris Fall	Surface failure	Low	Masagongsong
Kawayan - Culaba	36	0+300	Rock Fall/Debris Fall	Steep gradient Dangerous falling rocks	Low	Brgy. Bilwang
Kawayan - Culaba	37	10+200	Temporary Bridge Washout	Restored Bailey Bridge damaged approach	Medium	Mapuyo Bridge

SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (6/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	IMPACT TO ROAD	REMARKS
Kawayan - Culaba	38	13+700	Temporary Bridge Approach Washout	Washout half portion of the approach of Bailey Bridge. Passable to traffic	High	Ungali Bridge
Kawayan - Culaba	39	14+800	Debris Flow	Debris flow due to strong current during heavy rain	High	Tucdao Spillway
Baybay - Jct. Mahaplag Road	40	3+000	Embankment Slope Failure	Loosen embankment	Low	Brgy. Gaas
Baybay - Jct. Mahaplag Road	41	3+700	Embankment Slope Failure	Loosen embankment and scouring of shoulder	Low	Brgy. Gaas
Baybay - Jct. Mahaplag Road	42	4+100	Embankment Slope Failure	Loosen embankment caused by seepage water	Low	Buenavista
Baybay - Jct. Mahaplag Road	43	4+300	Embankment Slope Failure	Loosen embankment caused by seepage water	Low	Buenavista

SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (7/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	IMPACT TO ROAD	REMARKS
Baybay - Jct. Mahaplag Road	44	4+400	Embankment Slope Failure	Scoured embankment & loose foundation	Low	Buenavista
Baybay - Jct. Mahaplag Road	45	13+200	Embankment Slope Failure	Side Slope Failure	High	Brgy. Higuloan
Baybay - Jct. Mahaplag Road	46	13+500	Embankment Slope Failure	Soft soil caused by heavy rain	Low	Brgy. Higuloan
Baybay - Jct. Mahaplag Road	47	16+100	Landslide	Cut Slope Failure	Meduim	Brgy. Monteverde
Baybay - Jct. Mahaplag Road	48	17+700	Cut Slope Failure	Surface Failure	Low	Brgy. Mailhi
Baybay - Jct. Mahaplag Road	49	21+000	Embankment Slope Failure	Soft soil caused by heavy rain	Low	Brgy. Vitla
Baybay - Jct. Mahaplag Road	50	22+100	Landslide	Cut Slope Failure	Low	Brgy. Liberation
Baybay - Jct. Mahaplag Road	51	25+500	Landslide	Cut Slope Failure	Low	Brgy. Liberation

SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (8/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	IMPACT TO ROAD	REMARKS
Bato - Sogod Rd.	52	5+600	Cut Slope Failure	Surface Failure	Low	Brgy. Tagaytay
Bato - Sogod Rd.	53	6+000	Embankment Slope Failure	Newly restored slope protection washout	Low	Brgy. Tagaytay
Bato - Sogod Rd.	54	6+050	Cut Slope Failure	Surface failure during heavy rain	Low	Brgy. Tagaytay
Bato - Sogod Rd.	55	6+300	Cut Slope Failure	Surface failure during heavy rain	Low	Brgy. Tagaytay
Bato - Sogod Rd.	56	6+700	Temporary Bridge Washout	Totally washout	High	Brgy. Tagaytay
Bato - Sogod Rd.	57	7+300	Cut Slope Failure	Surface Failure	Low	Brgy. Tagaytay
Bato - Sogod Rd.	58	8+800	Embankment Slope Failure	Settlement of road due to drainage water	Low	
Bato - Sogod Rd.	59	8+850	Embankment Slope Failure	Settlement of road due to drainage water	Low	Brgy. Tagaytay

SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (9/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	IMPACT TO ROAD	REMARKS
Bato - Sogod Rd.	60	9+800	Embankment Slope Failure	Side slope failure caused by flood water	Low	Brgy. Bakwit
Bato - Sogod Rd.	61	10+800	Cut Slope Failure	Surface failure	Low	
Bato - Sogod Rd.	62	12+300	Embankment Slope Failure	Side slope failure caused by heavy rain	Low	Brgy. Albanga
Bato - Sogod Rd.	63	14+000	Temporary Bridge Washout	Totally washout due to flooding by typhoon "Ruping"	High	
Albuera - Burauen	64	2+800	Cut Slope Failure	Debris fall caused by heavy rain	Low	Brgy. Kalingatan
Albuera - Burauen	65	3+300	Rock Fall/Debris Fall	Steep gradient Debris fall	Medium	Brgy. Kalingatan
Albuera - Burauen	66	3+600	Rock Fall/Debris Fall	Steep gradient Debris fall	Low	Brgy. Kalingatan

SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (10/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	IMPACT TO ROAD	REMARKS
Albuera - Burauen	67	4+000	Cut Slope Failure	Surface Failure	Low	Brgy. Kalingatan
Albuera - Burauen	68	4+800	Cut Slope Failure	Surface Failure	Medium	
Albuera - Burauen	69	5+100	Cut Slope Failure	Surface Failure	Low	
Albuera - Burauen	70	5+200	Cut Slope Failure	Surface Failure	Low	Brgy. Kalingatan
Albuera - Burauen	71	5+300	Cut Slope Failure	Surface Failure	Low	Brgy. Kalingatan
Albuera - Burauen	72	5+800	Cut Slope Failure	Surface Failure	Low	Brgy. Kalingatan
San Antonio - Sta. Elena Road	73	2+600	Temporary Bridge Washout	Not passable to vehicles	High	Kiloon Bridge
Malaguicay - Sta. Elena Road	74	0+800	Temporary Bridge Washout	Totally washout Bailey Bridge	High	Sta. Elena Bridge
Jct. Dagami - Pastrana Rd.	75	0+050	Temporary Bridge Washout	Totally washout timber bridge	High	San Benito
Jct. Burauen - La Paz Road	76	2+000	Permanent Bridge Approach Washout	Damaged slab on wingwall. Not passable to traffic	High	Marabong Bridge

SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (11/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	IMPACT TO ROAD	REMARKS
Sn. Esteban - Mahagnao Rd.	77	12+700	Cut Slope Failure	Steep Gradient	Low	Brgy. Cansibuy
Sn. Esteban - Mahagnao Rd.	78	13+000	Cut Slope Failure	Cut Slope Failure	Medium	
Abuyog - Tadoc Rd.	79	5+100	Cut Slope Failure	Steep Gradient	Low	
Abuyog - Tadoc Rd.	80	5+400	Cut Slope Failure		Medium	
Abuyog - Tadoc Rd.	81	5+450	Culvert Damage	Scoured outlet portion of drainage pipe below road surface	Low	
Tadoc - Southern Leyte Bdry.	82	5+600	Embankment Slope Failure	Slightly loose Soil	Medium	
Tadoc - Southern Leyte Bdry.	83	6+800	Cut Slope Failure	Surface Failure	Low	
Tadoc - Southern Leyte Bdry.	84	7+600	Cut Slope Failure	Surface Failure	Low	

SUMMARY OF IDENTIFIED DISASTER SPOTS
PROVINCE OF LEYTE (12/12)

ROAD NAME	SPOT NO.	Km.	TYPE OF DAMAGE	DESCRIPTION	MPACT TO ROAD	REMARKS
Tadoc - Southern Leyte Bdry.	85	7+900	Rock Fall/Debris Fall	Surface Failure	Low	
Tadoc - Southern Leyte Bdry.	86	7+900	Cut Slope Failure	Surface failure	Low	
Tadoc - Southern Leyte Bdry.	87	8+200	Cut Slope Failure	Surface Failure	Medium	
Calingcaguing - Tunga Road	88	0+300	Temporary Bridge Washout	Totally Washout	High	Calingcaguing Br.
Barugo - Carigara Road	89	0+500	Temporary Bridge Approach Washout	Washout Approach of Bailey Bridge; Not passable	Medium	Himanglos Br.
Jct. Kananga - Tagaytay Road	90	0+900	Spillway Damage	Washout approach Not passable to vehicles	High	Brgy. Tagaytay

APPENDIX 9-1
ROAD CLASSIFICATION

ROAD CLASSIFICATION

1) Administrative Road Classification

Roads are classified, mainly based on the administrative responsibilities and jurisdiction of the agencies concerned in the funding, planning, construction/improvement and maintenance, into the following five (5) classes:

- National Roads
- Provincial Roads
- City Roads
- Municipal Roads
- Barangay Roads

These classes are defined as follows and show conceptually in Figure 1.

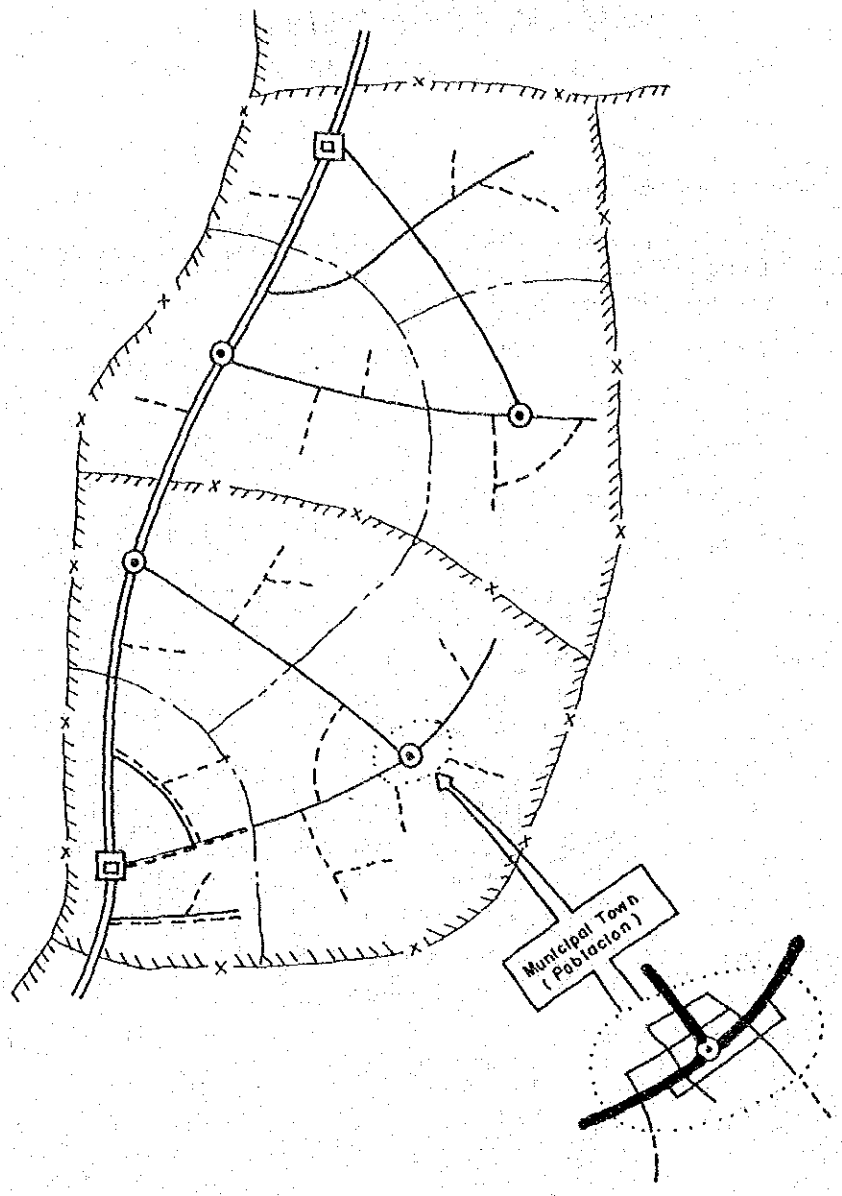
National Roads are all roads that form part of the main trunkline system continuous in extent; all roads leading to national airports, national seaports, national parks or coast-to-coast roads.

Provincial Roads are those roads connecting one municipality with another municimunicipality, the termini to be public plazas; all roads extending from a municipality or from a provincial or national road to a public wharf or railway station; and any other road to be designated as such by the Sangguniang Panlalawigan.

City Roads are those roads/streets within the urban area of the city to be designated as such by the Sangguniang Panglungsod.

Municipal Roads are those roads/streets within the poblacion area of a municipality to be designated as such by the Sangguniang Bayan.

Barangay Roads are rural roads located either outside the urban area of a city or outside industrial, commercial or residential subdivisions which act as feeder or farm-to-market roads, and which are not otherwise classified as national, provincial, city or municipal roads. Roads located outside the poblacion area of a municipality and those roads located to outside the urban area of a city are to be designated as such by the Barangay Council concerned.



LEGEND :

- NATIONAL ROAD
- PROVINCIAL ROAD
- CITY ROAD
- MUNICIPAL ROAD
- BARANGAY ROAD
- PROVINCIAL BOUNDARY
- CITY BOUNDARY
- MUNICIPAL BOUNDARY
- BARANGAY BOUNDARY
- PROVINCIAL CAPITAL
- MUNICIPAL TOWN (POBLACION)

FIGURE 1 CONCEPTUAL ROAD NETWORK BY ADMINISTRATIVE CLASSIFICATION

2) Functional Road Classification

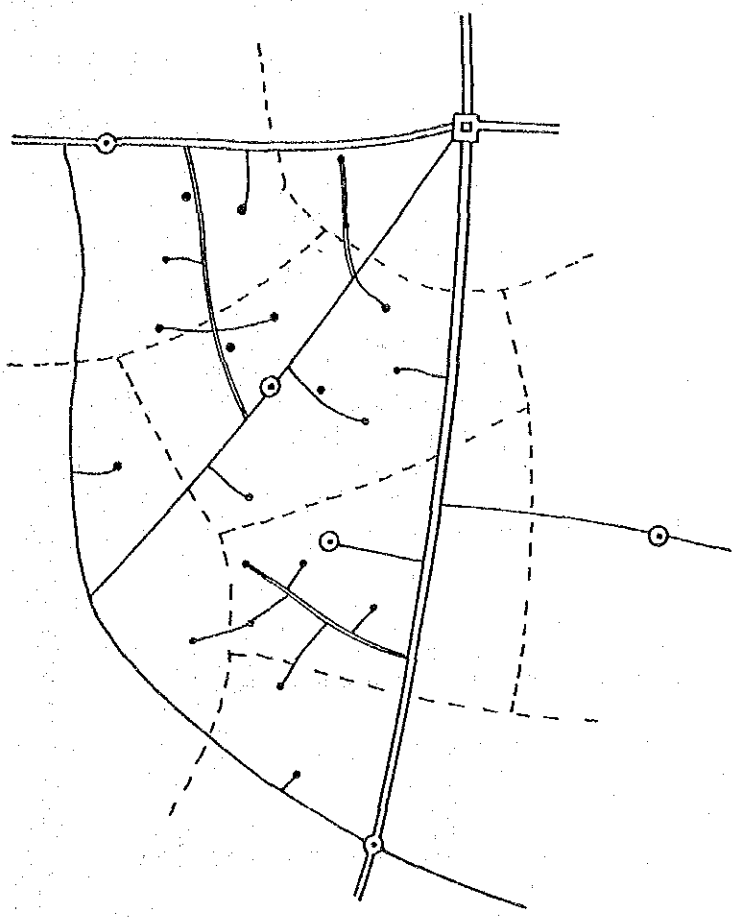
For planning and developing an efficient road network, roads should be classified according to importance and the character of services they are intended to provide. Individual road links of similar importance and quality of services are organized into systems so that a road network in accordance with the hierarchy of functions can be planned and formed. Thus they can be efficiently managed with consistent policies, design and operation.

From this point of view, the functional road classification criteria are proposed as shown in Table 1. Roads are classified into the following five (5) classes as shown conceptually in Figure 2.

Major Roads :	Primary Major Roads
	Secondary Major Roads
Minor Roads :	Collector Roads
	Feeder Roads
	Streets

TABLE 1 PROPOSED FUNCTIONAL CLASSIFICATION FOR RURAL ROAD NETWORK

Functional Classification		General Definition	General Characteristics and Services Provided	Relationship with Administrative Classification				
				National Road	Provincial Road	City Road	Municipal Road	Barangay Road
Major Road	Primary Major Road	· Major inter-provincial roads · Intra-provincial roads linking two (2) or more municipal towns to the Provincial Capital · Intra-provincial roads which form a skeleton road network of a province	· Provides the highest level of service at the high speed for the long uninterrupted distance · Serves for long distance trips · Mobility is given the highest consideration	o				
	Secondary Major Road	· Roads linking municipal towns each other · Roads linking a municipal town to the Provincial Capital · Roads linking one (1) or more municipal towns to the primary major road network	· Provides high level of service · Serves for medium distance trips · Mobility is given high consideration	o	o	o		
Minor Road	Collector Road	· Roads linking secondary major roads each other or a primary road with a secondary road · Roads linking two (2) or more barangays to the municipal town or to the higher level network	· Provides rather low level of mobility · Serves for short distance trips · Collects traffic from feeder roads and connects them with major roads · Mobility and land access functions be harmonized		o	o		o
	Feeder Road	· Roads linking one or more barangay centers to the higher level network · Roads linking farm areas to their respective barangay centers or to the higher level network	· Primarily provides access to abutting land with little or no through traffic · Serves for local traffic · Land access is given high consideration			o		o
Street		· Roads within built-up population centers (Poblacion) with essentially urban rather than rural functions	· Primarily provides access to abutting land in urban areas · Through traffic usage discouraged			o	o	



LEGEND :

- PRIMARY MAJOR ROAD
- SECONDARY MAJOR ROAD
- COLLECTOR / DISTRIBUTOR ROAD
- FEEDER ROAD
- MUNICIPAL BOUNDARY
- PROVINCIAL CAPITAL
- MUNICIPAL TOWN
- BARANGAY

FIGURE 2 CONCEPTUAL ROAD NETWORK BY FUNCTIONAL CLASSIFICATION

Verification of Major Road Density

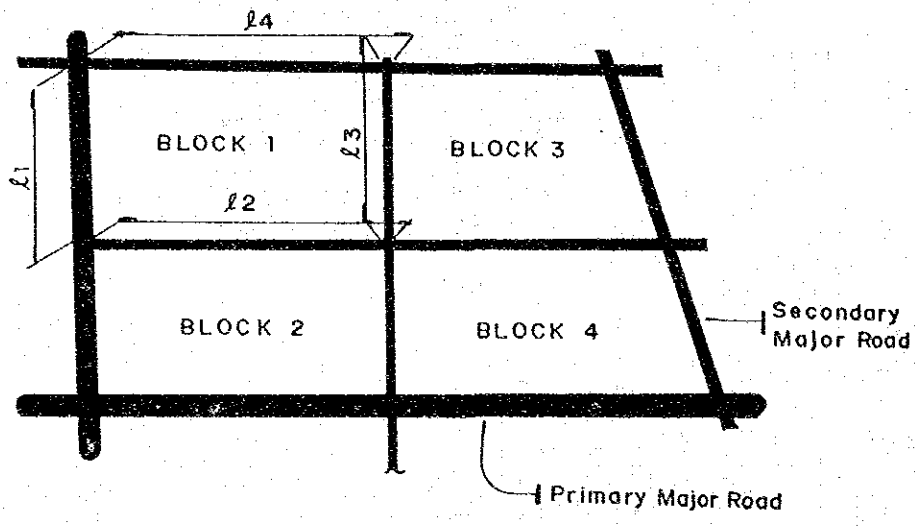
In order to establish a well-balanced major road network, two indicators are introduced to examine the balance of network size. If indicators show imbalanced values, addition or deletion of major road links should be considered. Two indicators are as follows:

a) Network Value

$$N_v = \frac{L}{\sqrt{P A}}$$

Where:

N_v	=	Network value
L	=	Road length delineating a block ($=\ell 1+\ell 2+\ell 3+\ell 4$, in case of block 1 of the figure below)
P	=	Population in a block
A	=	Area in a block
Block	=	Area delineated by primary and/or secondary major road



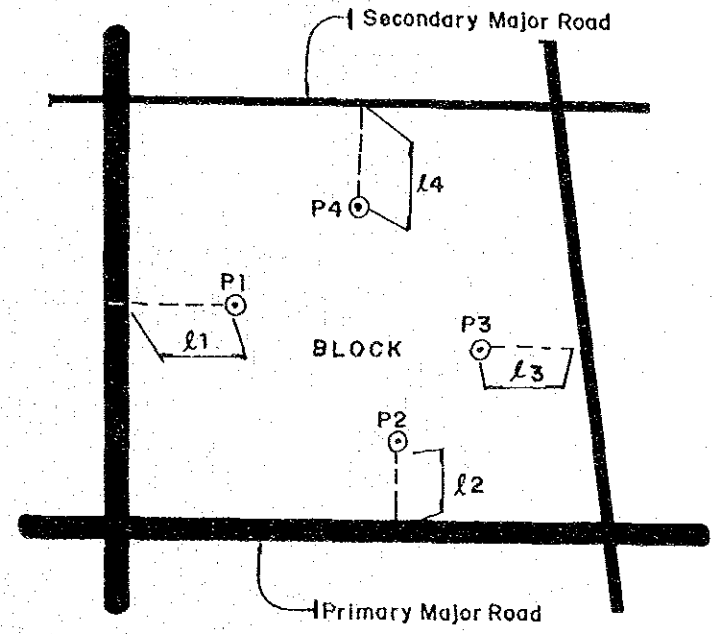
b) Accessibility

Accessibility Ac = $\Sigma p . \ell$

Average accessibility A_{ave} = $\frac{\Sigma p . \ell}{P}$

Where:

p	=	*Population of a barangay*
ℓ	=	Distance from a barangay center to respective primary or secondary major road
P	=	*Total Population in a block*



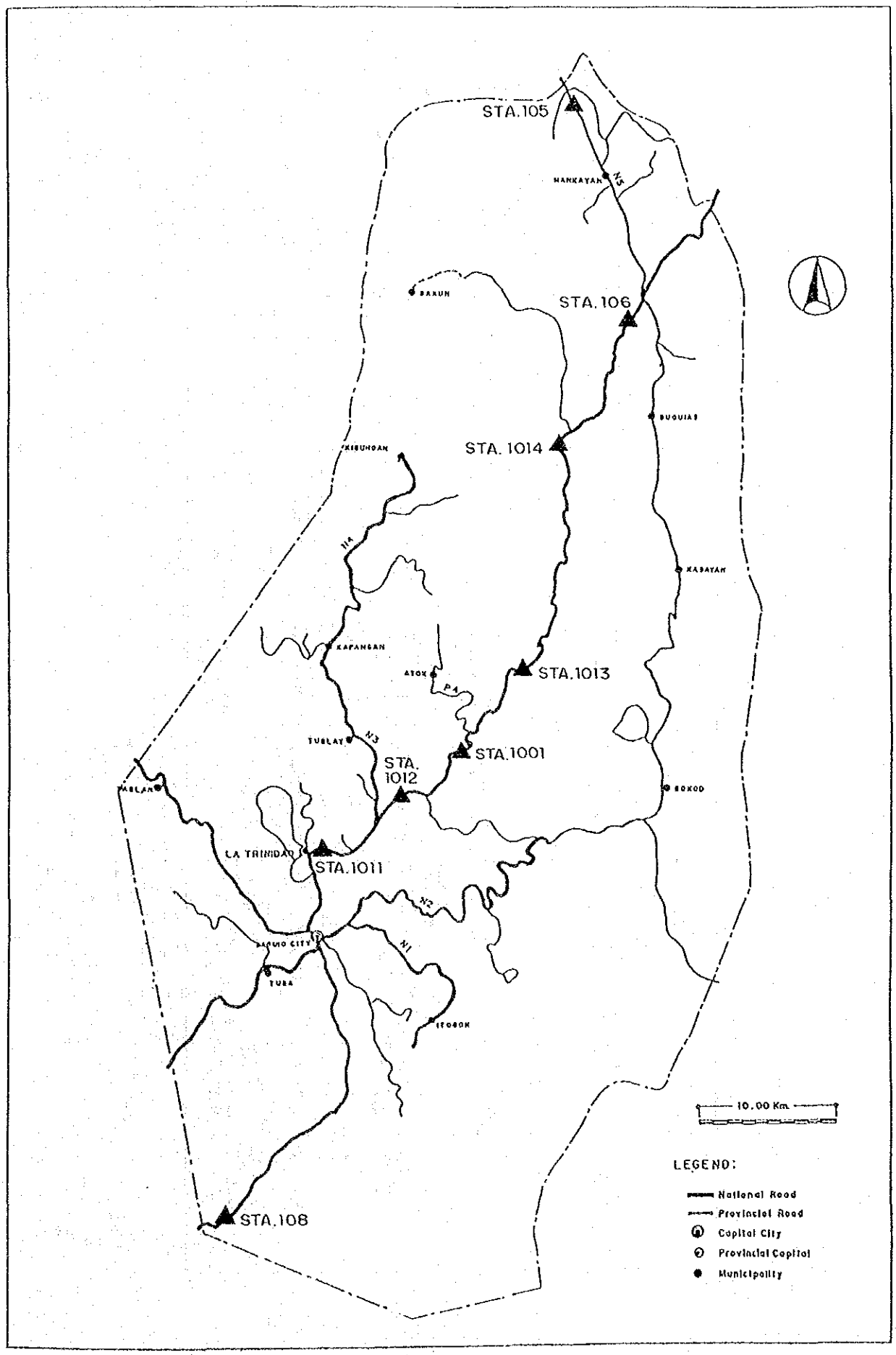
◉ Barangay Center

Accessibility = $P1 \cdot \ell 1 + P2 . \ell 2 + p^3 \cdot \ell 3 + p^4 . \ell 4$

Average accessibility = $\frac{\text{Accessibility}}{p^1 + p^2 + p^3 + p^4}$

APPENDIX 9-2

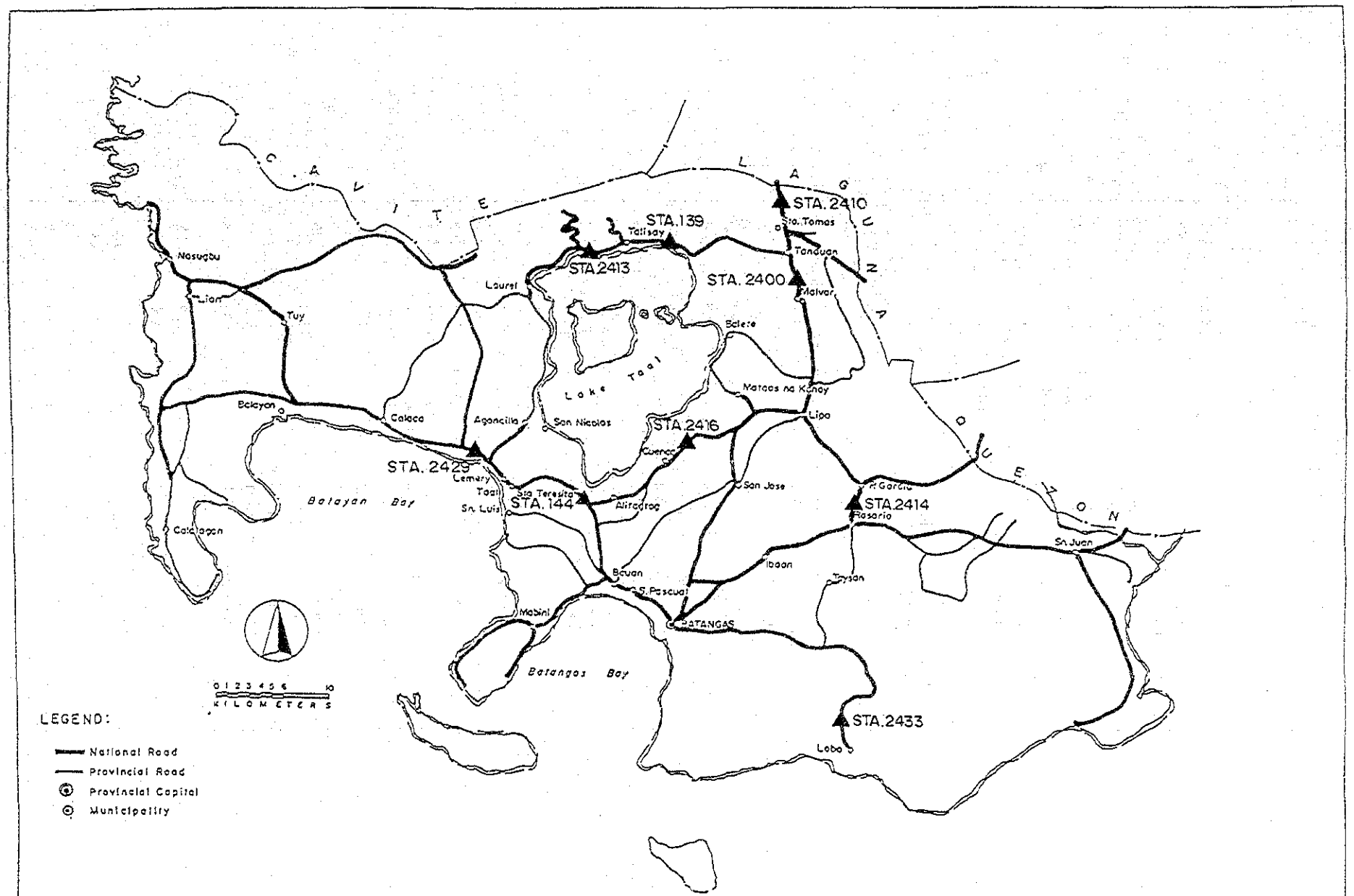
TRAFFIC DATA FROM THE DPWH NATIONWIDE TRAFFIC COUNTS PROGRAM



DPWH NTCP TRAFFIC SURVEY STATION (BENGUET)

DPWH NTCP TRAFFIC SURVEY RESULT
Province of Benguet

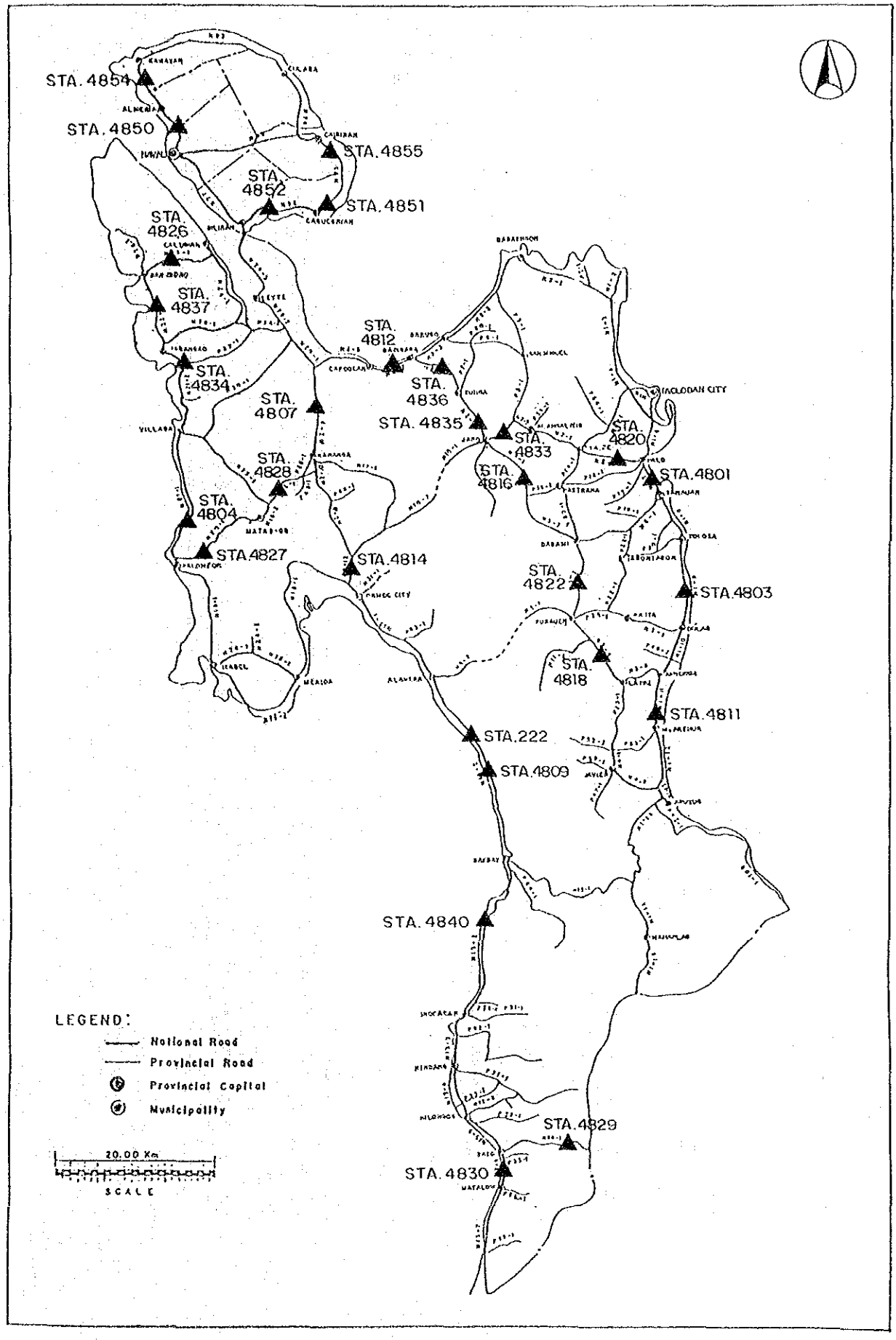
Sta. No.	Vehicle Type	Year 1986	1987	1988	1989
108	Car	-	1,345	1,437	-
	Jeepney	-	487	295	-
	Bus	-	633	291	-
	Truck	-	371	513	-
	ADT	-	2,836	2,836	-
1,011	Car	5.052	-	6,024	-
	Jeepney	6,795	-	8,267	-
	Bus	313	-	468	-
	Truck	557	-	756	-
	ADT	12,767	-	15,515	-
1,012	Car	296	-	353	-
	Jeepney	325	-	395	-
	Bus	115	-	148	-
	Truck	180	-	244	-
	ADT	916	-	1,141	-
1,001	Car	260	254	277	-
	Jeepney	191	189	208	-
	Bus	42	34	39	-
	Truck	130	350	407	-
	ADT	623	827	932	-
1,013	Car	123	-	147	-
	Jeepney	6	-	7	-
	Bus	34	-	44	-
	Truck	114	-	155	-
	ADT	277	-	352	-
1,004	Car	66	-	108	-
	Jeepney	0	-	-	-
	Bus	28	-	33	-
	Truck	57	-	64	-
	ADT	151	-	205	-
106	Car	-	247	305	453
	Jeepney	-	11	18	23
	Bus	-	38	74	58
	Truck	-	101	95	61
	ADT	-	397	502	595
105	Car	-	146	88	111
	Jeepney	-	64	-	-
	Bus	-	98	43	5
	Truck	-	17	-	-
	ADT	-	325	131	116



DPWH NTCP TRAFFIC SURVEY STATION (BATANGAS)

DPWH NTCP TRAFFIC SURVEY RESULT
Province of Batangas

Sta. No.	Vehicle Type	Year 1986	1987	1988	1989
2,410	Car	7,661	-	9,834	8,513
	Jeepney	1,351	-	1,784	1,073
	Bus	988	-	1,293	959
	Truck	1,184	-	1,632	1,222
	ADT	11,184	-	14,543	11,767
2,400	Car	4,352	6,177	6,999	7,929
	Jeepney	1,095	1,210	1,390	1,597
	Bus	521	685	784	896
	Truck	855	995	1,168	1,372
	ADT	6,823	9,067	10,341	11,794
2,414	Car	564	-	724	820
	Jeepney	315	-	416	478
	Bus	-	-	-	-
	Truck	49	-	68	79
	ADT	928	-	1,207	1,377
2,414	Car	1,419	-	1,822	532
	Jeepney	603	-	796	381
	Bus	208	-	273	145
	Truck	194	-	267	288
	ADT	2,424	-	3,157	1,346
2,433	Car	250	-	321	364
	Jeepney	228	-	301	346
	Bus	68	-	89	101
	Truck	173	-	238	280
	ADT	719	-	949	1,091
144	Car	-	853	706	922
	Jeepney	-	980	553	1,049
	Bus	-	237	188	170
	Truck	-	292	257	188
	ADT	-	2,362	1,704	2,329
2,429	Car	534	-	685	851
	Jeepney	855	-	1,129	955
	Bus	379	-	496	77
	Truck	310	-	427	10
	ADT	2,078	-	2,737	1,893
2,413	Car	294	-	377	428
	Jeepney	307	-	405	466
	Bus	-	-	-	-
	Truck	310	-	28	32
	ADT	621	-	810	926
139	Car	-	322	481	867
	Jeepney	-	394	469	698
	Bus	-	-	-	2
	Truck	-	101	90	138
	ADT	-	817	1,040	1,705



DPWH NTCP TRAFFIC SURVEY STATION (LEYTE)

DPWH NTCP TRAFFIC SURVEY RESULT

Province of Leyte (1)

Sta. No.	Vehicle Type	Year 1986	1987	1988	1989
4,801	Car	920	-	944	1,077
	Jeepney	921	-	845	979
	Bus	227	-	248	287
	Truck	524	-	444	528
	ADT	2,592	-	2,480	2,871
4,803	Car	483	-	629	717
	Jeepney	586	-	787	912
	Bus	177	-	238	275
	Truck	269	-	380	452
	ADT	1,545	-	2,034	2,356
4,811	Car	414	-	472	615
	Jeepney	434	-	503	676
	Bus	140	-	162	217
	Truck	276	-	328	464
	ADT	1,264	-	1,466	1,972
4,816	Car	176	-	229	261
	Jeepney	48	-	64	75
	Bus	-	-	-	-
	Truck	136	-	192	229
	ADT	360	-	486	565
4,822	Car	396	-	516	590
	Jeepney	230	-	309	348
	Bus	94	-	126	121
	Truck	385	-	544	501
	ADT	1,105	-	1,495	1,560
4,818	Car	-	-	139	159
	Jeepney	-	-	56	64
	Bus	-	-	2	3
	Truck	-	-	121	144
	ADT	-	-	318	370
4,820	Car	718	-	935	897
	Jeepney	724	-	973	956
	Bus	184	-	247	273
	Truck	502	-	710	677
	ADT	2,128	-	2,864	2,803
4,833	Car	497	456	520	594
	Jeepney	339	375	435	504
	Bus	141	165	191	222
	Truck	279	251	298	355
	ADT	1,256	1,247	1,444	1,675

DPWH NTCP TRAFFIC SURVEY RESULT

Province of Leyte (2)

Sta. No.	Vehicle Type	Year 1986	1987	1988	1989
	Car	398	-	513	585
	Jeepney	406	-	420	487
4,835	Bus	193	-	145	168
	Truck	268	-	323	384
	ADT	1,265	-	1,401	1,624
	Car	540	-	703	802
	Jeepney	362	-	486	564
4,836	Bus	226	-	303	351
	Truck	466	-	659	783
	ADT	1,594	-	2,151	2,500
	Car	318	-	351	400
	Jeepney	154	-	86	100
4,812	Bus	104	-	81	94
	Truck	272	-	128	152
	ADT	848	-	646	746
	Car	265	-	345	394
	Jeepney	98	-	132	153
4,807	Bus	113	-	152	176
	Truck	248	-	351	417
	ADT	724	-	979	1,140
	Car	218	-	284	324
	Jeepney	191	-	252	297
4,814	Bus	65	-	87	101
	Truck	117	-	165	197
	ADT	591	-	793	919
	Car	-	169	158	163
	Jeepney	-	154	148	117
222	Bus	-	53	144	114
	Truck	-	32	74	127
	ADT	-	408	524	521
	Car	-	238	272	310
	Jeepney	-	133	154	179
4,809	Bus	-	56	65	75
	Truck	-	22	26	31
	ADT	-	449	517	595
	Car	114	-	271	309
	Jeepney	129	-	171	198
4,840	Bus	30	-	37	43
	Truck	26	-	91	108
	ADT	299	-	570	658

DPWH NTCP TRAFFIC SURVEY RESULT
Province of Leyte (3)

Sta. No.	Vehicle Type	Year 1986	1987	1988	1989
4,830	Car	76	-	99	113
	Jeepney	116	-	156	181
	Bus	39	-	52	61
	Truck	14	-	20	24
	ADT	245	-	327	379
4,829	Car	72	-	94	168
	Jeepney	104	-	140	113
	Bus	39	-	53	36
	Truck	26	-	37	72
	ADT	241	-	322	389
4,826	Car	43	-	83	95
	Jeepney	56	-	64	74
	Bus	-	-	-	-
	Truck	24	-	18	21
	ADT	123	-	165	190
4,837	Car	46	-	60	68
	Jeepney	46	-	62	72
	Bus	-	-	-	-
	Truck	17	-	24	29
	ADT	109	-	146	169
4,834	Car	67	-	87	100
	Jeepney	36	-	48	56
	Bus	-	-	-	-
	Truck	38	-	54	64
	ADT	141	-	189	220
4,804	Car	112	154	176	200
	Jeepney	102	112	130	150
	Bus	4	-	-	-
	Truck	39	13	15	18
	ADT	257	279	321	368
4,827	Car	83	-	108	123
	Jeepney	84	-	113	131
	Bus	-	-	-	-
	Truck	31	-	44	52
	ADT	198	-	265	306
4,828	Car	94	-	122	86
	Jeepney	91	-	122	106
	Bus	-	-	-	11
	Truck	37	-	57	95
	ADT	222	-	297	298

DPWH NTCP TRAFFIC SURVEY RESULT

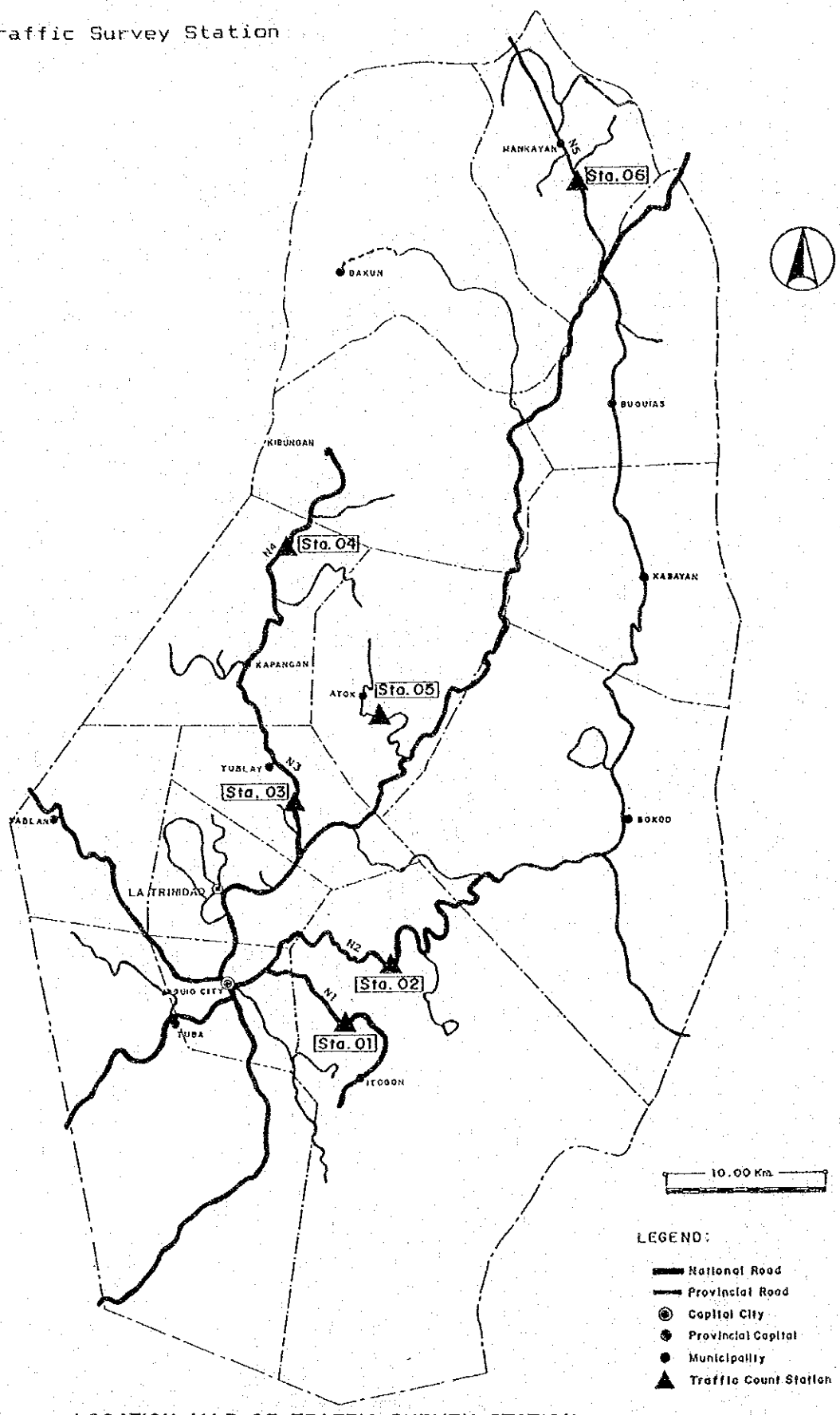
Province of Leyte (4)

Sta. No.	Vehicle Type	Year 1986	1987	1988	1989
4,854	Car	56	-	73	40
	Jeepney	74	-	99	24
	Bus	125	-	168	15
	Truck	76	-	107	35
	ADT	331	-	447	114
4,850	Car	58	-	76	86
	Jeepney	71	-	95	111
	Bus	140	-	188	218
	Truck	47	-	66	79
	ADT	316	-	425	494
4,852	Car	64	-	46	52
	Jeepney	65	-	44	51
	Bus	134	-	41	47
	Truck	84	-	42	50
	ADT	347	-	173	200
4,851	Car	72	-	94	107
	Jeepney	56	-	75	87
	Bus	116	-	156	180
	Truck	93	-	131	156
	ADT	337	-	456	530
4,855	Car	47	61	70	79
	Jeepney	52	70	81	94
	Bus	105	84	97	113
	Truck	60	41	49	58
	ADT	264	256	297	344

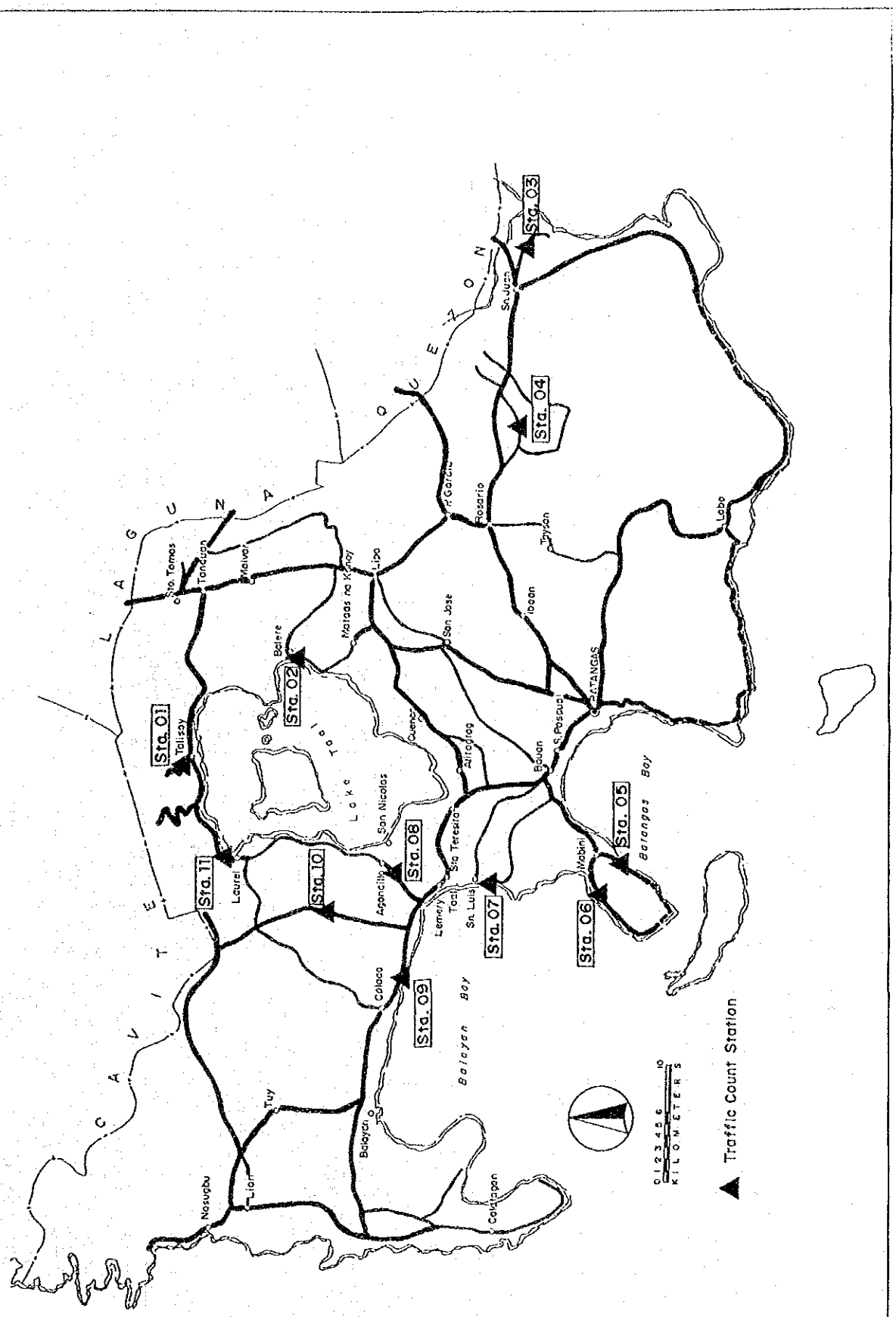
APPENDIX 9-3
TRAFFIC SURVEY DATA

1. Traffic Survey Station (Benguet, Batangas, Leyte)
2. Raw Data (Benguet, Batangas)
3. Conversion to AADT (Benguet, Batangas)
4. AADT (Leyte)

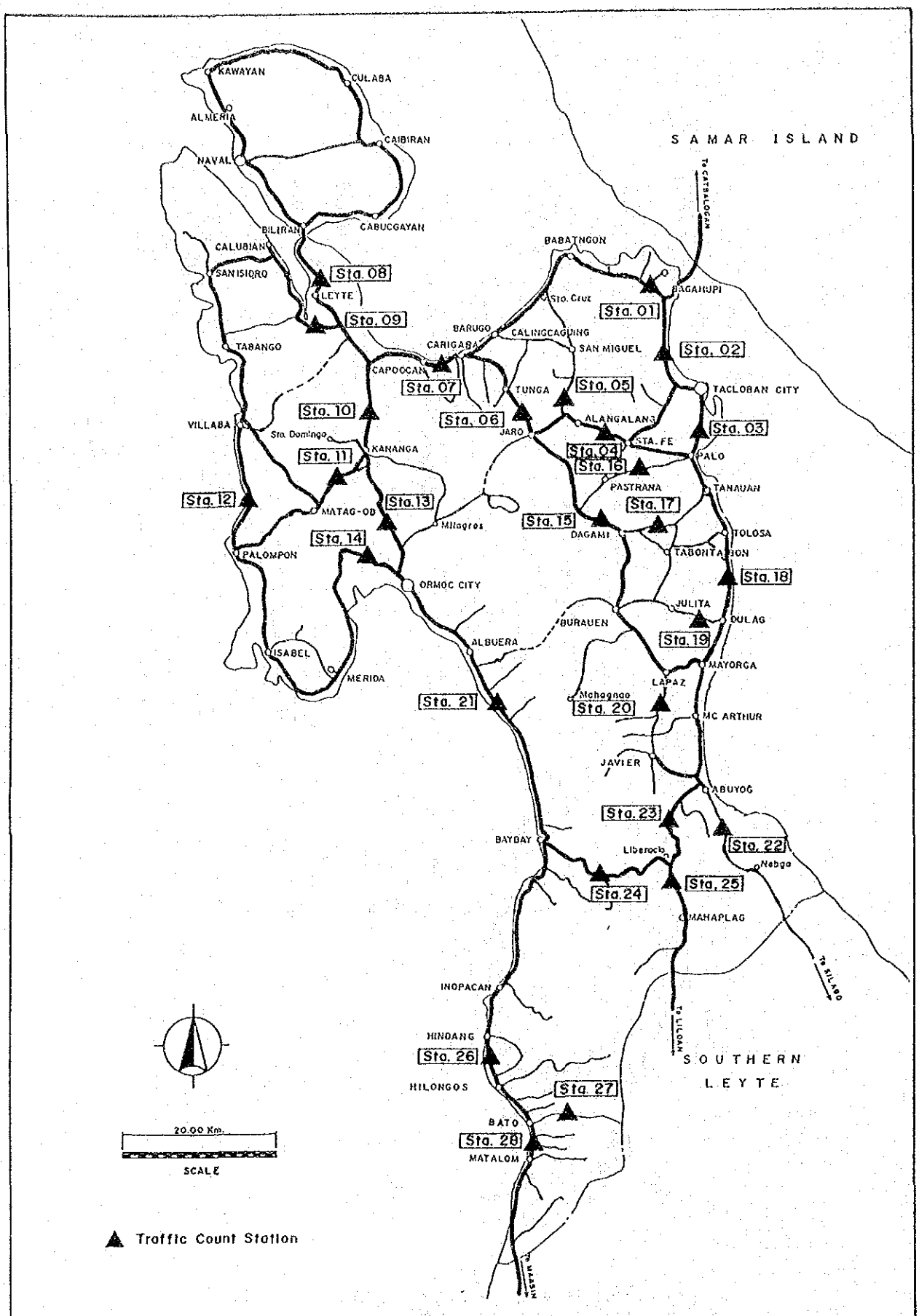
1. Traffic Survey Station



LOCATION MAP OF TRAFFIC SURVEY STATION
(BENGUET PROVINCE)



LOCATION MAP OF TRAFFIC SURVEY STATION
(BATANGAS PROVINCE)



LOCATION MAP OF TRAFFIC SURVEY STATION
(LEYTE PROVINCE)

TRAFFIC COUNT SUMMARY I

STA. NO. BENGUET-01 LOCATION BRGY. TUDING, ITOGON DATE: 3-6-91

HOUR	DIR. A: From ITOGON To BAGUIO														DIR. B: From BAGUIO To ITOGON											
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01																												
01 – 02																												
02 – 03																												
03 – 04																												
04 – 05																												
05 – 06																												
06 – 07	3	1	18		1									23	3	6	12											21
07 – 08	3	1	22			1								27	6	5	15				2							28
08 – 09	1	6	34			2								33	4	6	19				1							30
09 – 10	5	5	21			3								44	6	2	12			3	1					2		26
10 – 11	8	2	14				2							26	3	4	18			2								27
11 – 12	4	4	13			1						1		23	4	6	15			4	1							30
12 – 13	1	3	15											19	4	3	10		1	1	1							20
13 – 14	4	5	10				1							20	2	3	19			2								26
14 – 15	7	4	15		1	1	2							30	6	4	18			2								30
15 – 16	3	1	14			2								20	2	1	23			2						1		28
16 – 17	4	8	20			3		1				1		37	8	7	26			2						1		47
17 – 18	7	7	10			2						1		27	4	3	23	1								2		31
18 – 19																												
19 – 20																												
20 – 21																												
21 – 22																												
22 – 23																												
23 – 24																												
Σ 24 Hrs.																												
Σ 12 X Hrs.	50	47	206		2	15	5	1				3		329	52	50	210	1	1	18	6					6		344
Ratio 24/x																												

1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 11
7. TRUCK 12
8. TRK. TLR. 11-11
9. TRK. TLR. 11-12
10. TRK. TLR. 12-11
11. TRK. TLR. 12-12
12. SEMITLR 111
13. SEMITLR 112
14. SEMITLR. 121
15. SEMITLR. 122
16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BENGUET-02 LOCATION BRGY. BAKUNG, BECKEL LA TRINIDAD, BENGUET DATE: 3-16-91

HOUR	DIR. A: From BAGUIO To BOKOD													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	1		1	2			1	1						6
07 – 08		1	3			1								5
08 – 09			4			2	1							7
09 – 10	3	4	3											10
10 – 11	2	1	4											7
11 – 12		2	2			1								5
12 – 13			1											1
13 – 14	2	1	9			2	1							15
14 – 15		3	1	1		2								7
15 – 16	1	1	3	1	1	1								8
16 – 17		2				1								3
17 – 18	2		3			1								6
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤12 X Hrs.	11	15	34	4	1	11	3	1						80
Ratio 24/x														

HOUR	DIR. B: From BOKOD To BAGUIO													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07			4											4
07 – 08	2	4	3											9
08 – 09	1	1	4			1								7
09 – 10			4		1	2								7
10 – 11	2	4	2	1		1	1							11
11 – 12	2		2											4
12 – 13		1												1
13 – 14	1	1	1											3
14 – 15	2	2	4			1								9
15 – 16	1	2	3			1								7
16 – 17	3	3	2			2								10
17 – 18	3	2	4			1								11
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤12 X Hrs.	17	20	33	1	1	9	1							82
Ratio 24/x														

1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 11
7. TRUCK 12
8. TRK. TLR. 11-11
9. TRK. TLR. 11-12
10. TRK. TLR. 12-11
11. TRK. TLR. 12-12
12. SEMI TLR 111
13. SEMI TLR 112
14. SEMI TLR. 121
15. SEMI TLR. 122
16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BENGUET-03 LOCATION BRGY. TUBLAY, CENTRAL TUBLAY, BENGUET DATE: 3-6-91

HOUR	DIR. A: From TUBLAY To BENGUET														DIR. B: From BENGUET To TUBLAY											
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 - 01																												
01 - 02																												
02 - 03																												
03 - 04																												
04 - 05																												
05 - 06																												
06 - 07			7			1								8														
07 - 08			6	1	1									8						2								2
08 - 09	1		3		2									6			2		1									3
09 - 10	1		1		1	1								4	1	3												4
10 - 11			2		2									4			1											1
11 - 12		1				1								2			1			1								2
12 - 13		3												3		1												1
13 - 14															1		2		2	1								6
14 - 15																1	2	1										4
15 - 16		1				1								2	1	2	8		2									13
16 - 17						1								1		2	4		1	1								8
17 - 18															1		4		1									6
18 - 19																												
19 - 20																												
20 - 21																												
21 - 22																												
22 - 23																												
23 - 24																												
≤ 24 Hrs.																												
≤ 12X Hrs.	2	5	19	1	6	5								38	4	8	24	1	7	5								49
Ratio 24/x																												

1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 11
7. TRUCK 12
8. TRK. TLR. 11-11
9. TRK. TLR. 11-12
10. TRK. TLR. 12-11
11. TRK. TLR. 12-12
12. SEMI TLR. 111
13. SEMI TLR. 112
14. SEMI TLR. 121
15. SEMI TLR. 122
16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BENGUET-04 LOCATION BRGY. LUMON, KAPANGAN, BENGUET DATE: 3-6-97

HOUR	DIR. A: From KIBUNGAN To KAPANGAN													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 - 01														
01 - 02														
02 - 03														
03 - 04														
04 - 05														
05 - 06														
06 - 07	2													2
07 - 08			1											1
08 - 09					1	1								2
09 - 10	1	1			1	1								4
10 - 11	1	1	1											3
11 - 12	1													1
12 - 13			2											2
13 - 14		1				1								2
14 - 15		1	2		2	2								7
15 - 16			2	1										3
16 - 17	2													2
17 - 18		1			1									2
18 - 19														
19 - 20														
20 - 21														
21 - 22														
22 - 23														
23 - 24														
≤ 24 Hrs.														
≤12 X Hrs.	7	5	8	1	5	5								31
Ratio 24/x														

HOUR	DIR. B: From KAPNAGAN To KIBUNGAN													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 - 01														
01 - 02														
02 - 03														
03 - 04														
04 - 05														
05 - 06														
06 - 07			3											3
07 - 08		1	1	1	2									5
08 - 09	1													1
09 - 10	1													1
10 - 11		1				1								2
11 - 12		1	2											3
12 - 13	1				1									2
13 - 14	1													1
14 - 15			2	1	2									5
15 - 16		2	4											6
16 - 17			3	1										4
17 - 18					1									1
18 - 19														
19 - 20														
20 - 21														
21 - 22														
22 - 23														
23 - 24														
≤ 24 Hrs.														
≤12 X Hrs.	4	5	15	3	6	1								34
Ratio 24/x														

1. CAR JEEP	2. PICK-UP VAN	3. JEEPNEY	4. BUS MINI	5. BUS BIG	6. TRUCK 11	7. TRUCK 12	8. TRK. TLR. 11-11	9. TRK. TLR. 11-12	10. TRK. TLR. 12-11	11. TRK. TLR. 12-12	12. SEMI TLR 111	13. SEMI TLR 112	14. SEMI TLR. 121	15. SEMI TLR. 122	16. SPECIAL VEHICLE	17. TRI-CYCLE	18. MOTOR CYCLE	19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BENGUET-05 LOCATION BRGY. TUPDAK, ATOK, BENGUET DATE: 3-6-91

HOUR	DIR. A: From TUPDAK To ATOK													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07		1												1
07 – 08														
08 – 09														
09 – 10	1	1				1						1		4
10 – 11		1												1
11 – 12														
12 – 13														
13 – 14	1	2												3
14 – 15	1		1											2
15 – 16		2	1	1										4
16 – 17			2											2
17 – 18			1											1
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤12 X Hrs.	3	7	5	1		1						1		18
Ratio 24/x														

HOUR	DIR. B: From ATOK To TUPDAK													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	1													1
07 – 08			2											2
08 – 09				1										1
09 – 10	1										1			2
10 – 11		1												1
11 – 12		1												1
12 – 13						1								1
13 – 14														
14 – 15		1												1
15 – 16		1												1
16 – 17	2													2
17 – 18						1								1
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤12 X Hrs.	4	4	2	1		2					1			14
Ratio 24/x														

1. CAR JEEP	PICK-UP 2. VAN	3. JEEPNEY	4. BUS MINI	5. BUS BIG	6. TRUCK 11	7. TRUCK 12	8. TRK. TLR. 11-11	9. TRK. TLR. 11-12	10. TRK. TLR. 12-11	11. TRK. TLR. 12-12	12. SEMI TLR 111	13. SEMI TLR 112	14. SEMI TLR. 121	15. SEMI TLR. 122	16. SPECIAL VEHICLE	17. TRI-CYCLE	18. MOTOR CYCLE	19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BENGUET-06 LOCATION UPPER ABATAN, MANKAYAN, BENGUET DATE: 3-6-91

HOUR	DIR. A: From MANKAYAN To UPPER ABATAN													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	2	2	2		1							1		8
07 – 08	2	2	7		2	2								15
08 – 09	1	4	5	1		6	2							19
09 – 10	2	3	4	1		2	3							15
10 – 11	2	4	6			2	3							17
11 – 12	1	5	3	1		4	3							17
12 – 13	1	2	3		1	3	3							13
13 – 14	2	3	5	1		2	3							16
14 – 15		2	2			3	2							9
15 – 16	2	5	2			3	3							15
16 – 17	1	5	3			3	3							15
17 – 18	3	3	5			2	5							18
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ 12 X Hrs.	19	40	47	4	4	32	30					1		185
Ratio 24/x														

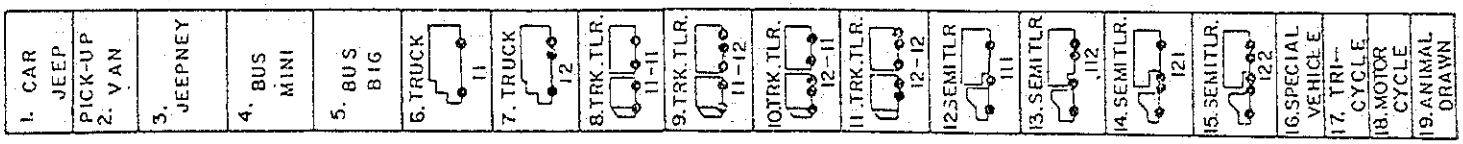
HOUR	DIR. B: From UPPER ABATAN To MANKAYAN													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	2					2	5							9
07 – 08	1	3	3	1		1	3							12
08 – 09	2	2	4		2	4	6							20
09 – 10	1	3	5		1	3	5							18
10 – 11	1	3	4	1	1	1	4							15
11 – 12	2	2	5		2	3	5							19
12 – 13	4	6	2	1	2	5	5							25
13 – 14	2	3	7		1	6	5							24
14 – 15	3	7			1	1	1							13
15 – 16		4	4	1	1	1	1							12
16 – 17	4	7	6		1	4	4							25
17 – 18	2	6	7		2	7	7							31
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ 12 X Hrs.	21	42	54	4	14	36	51							220
Ratio 24/x														

1. CAR JEEP	2. PICK-UP VAN	3. JEEPNEY	4. BUS MINI	5. BUS BIG	6. TRUCK 11	7. TRUCK 12	8. TRK. TLR. 11-11	9. TRK. TLR. 11-12	10. TRK. TLR. 12-11	11. TRK. TLR. 12-12	12. SEMITLR 111	13. SEMITLR 112	14. SEMITLR 121	15. SEMITLR 122	16. SPECIAL VEHICLE	17. TRI-CYCLE	18. MOTOR CYCLE	19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-01 LOCATION TANAUAN - BANGA JCT. TAGAYTAY BDRY. ROAD DATE: 3-12-91

HOUR	DIR. A: From BANGA JCT To TAGAYTAY														DIR. B: From TAGAYTAY To BANGA JCT.											
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 - 01																												
01 - 02																												
02 - 03																												
03 - 04																												
04 - 05																												
05 - 06																												
06 - 07	1		2									1		4			3									1		4
07 - 08	2		7											9	1	1	4											6
08 - 09	1	1	2											4		1												1
09 - 10	2		1			1								4	2	2	3											7
10 - 11	-	1	4											5	2	2	2			1								7
11 - 12	-													0	1													1
12 - 13	1		1											2	2	1	4											7
13 - 14	-	1	3											4	2	2	2											6
14 - 15	-		3											3	-		5											5
15 - 16	1	2	3											6	-													0
16 - 17	1		5											6	1	1	2											4
17 - 18	-																1											1
18 - 19																												
19 - 20																												
20 - 21																												
21 - 22																												
22 - 23																												
23 - 24																												
≤ 24 Hrs.																												
≤12 X Hrs.	9	5	31			1						1		47	11	10	26			1								49
Ratio 24/x																												



TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-02 LOCATION BRGY. KINALAGLAGAN, MATAAS NA KAHOY DATE: 3-12-91

HOUR	DIR. A: From MATAAS NA KAHOY To BALETE													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	1		5								1	3		10
07 – 08														
08 – 09														
09 – 10														
10 – 11														
11 – 12			2								1	2		5
12 – 13														
13 – 14														
14 – 15			1								2	1		4
15 – 16														
16 – 17														
17 – 18	1		3									2		6
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤12X Hrs.	2		11								4	8		25
Ratio 24/x														

HOUR	DIR. B: From BALETE To MATAAS NA KAHOY													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	1		2								1	1		5
07 – 08														
08 – 09														
09 – 10														
10 – 11			1											1
11 – 12														
12 – 13														
13 – 14														
14 – 15														
15 – 16														
16 – 17														
17 – 18														
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤12X Hrs.	1		3								1	1		6
Ratio 24/x														

1. CAR JEEP	
2. PICK-UP VAN	
3. JEEPNEY	
4. BUS MINI	
5. BUS BIG	
6. TRUCK	11
7. TRUCK	12
8. TRK. TLR.	11-11
9. TRK. TLR.	11-12
10. TRK. TLR.	12-11
11. TRK. TLR.	12-12
12. SEMI TLR.	111
13. SEMI TLR.	112
14. SEMI TLR.	121
15. SEMI TLR.	122
16. SPECIAL VEHICLE	
17. TRI-CYCLE	
18. MOTOR CYCLE	
19. ANIMAL DRAWN	

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-03 LOCATION CALITLIT JCT DATE: 3-12-91

HOUR	DIR. A : From CALITLIT To PINAGBAYANAN													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01													/	
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	2	1	6			2	1				3			15
07 – 08	2	1	3			1	2				2	1		12
08 – 09	1	1	2			1	1				1	1		8
09 – 10	1	2	1			1	1				1	2		9
10 – 11	-		1			2					1	1		5
11 – 12	-	2	1			2	2				2	1		10
12 – 13	-	1				2					1	1		5
13 – 14	-		2			1					2			5
14 – 15	-	1	2			1					2			6
15 – 16	-		2			1					1	1		5
16 – 17	1	-	3			1	1				3	2		11
17 – 18	2	2	4			2	1				3	2		16
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ 12 X Hrs.	9	11	27			17	9				22	12		107
Ratio 24/x														

HOUR	DIR. B : From PINAGBAYANAN To CALITLIT													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	2		3			1	2				5	2		15
07 – 08			2			2	1				1			6
08 – 09			3			1	2				2	1		9
09 – 10			3			1	2				2			8
10 – 11	1	1	2			1	1				3	1		10
11 – 12	-	1	2			1					3	2		9
12 – 13			1			1					1			3
13 – 14	1	1	1				1				1	1		6
14 – 15	-		1			1	2				1			5
15 – 16	-		2			2	1				2			7
16 – 17	-	1	1			1	2				2	1		8
17 – 18	-	1	1			2	1				2	1		8
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ 12 X Hrs.	4	5	22			14	15				25	9		94
Ratio 24/x														

1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 11
7. TRUCK 12
8. TRK. TLR. 11-11
9. TRK. TLR. 11-12
10. TRK. TLR. 12-11
11. TRK. TLR. 12-12
12. SEMITLR 111
13. SEMITLR 112
14. SEMITLR 121
15. SEMITLR 122
16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-04 LOCATION BRGY. MALIGAYA, ROSARIO DATE: 3-12-91

HOUR	DIR. A: From TIQUIWAN To SALAO													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01													/	
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	4		8											12
07 – 08	13		6											19
08 – 09	3		2											5
09 – 10	9		6											11
10 – 11	6		5											11
11 – 12	1		2											3
12 – 13	5		3								2	2		12
13 – 14	6		7				1				1			15
14 – 15	5		4											9
15 – 16	7		4								1			12
16 – 17	3		5											8
17 – 18	6		8								4			18
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤ 12X Hrs.	64		60				1				8	2		135
Ratio 24/x														

HOUR	DIR. B: From SALAO To TIQUIWAN													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	5		16											21
07 – 08	13		6											9
08 – 09	5		3											8
09 – 10	4		9											13
10 – 11	3		6											9
11 – 12	2		1											3
12 – 13	4		7								3	2		16
13 – 14	9		10				1	1						21
14 – 15	6		4											10
15 – 16	6		8											14
16 – 17	4		4											8
17 – 18	5		7			1								13
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤ 12X Hrs.	56		81			1	1	1			3	2		145
Ratio 24/x														

1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 11
7. TRUCK 12
8. TRK.TLR. 11-11
9. TRK.TLR. 11-12
10. TRK.TLR. 12-11
11. TRK.TLR. 12-12
12. SEMITLR 111
13. SEMITLR 112
14. SEMITLR. 121
15. SEMITLR. 122
16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-05 LOCATION POBLACION MABINI, BATANGAS DATE: 3-11-91

HOUR	DIR. A: From MABINI To TALAGA													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	2	2	28			2	3				8			45
07 – 08	8	7	21			1					9	2		48
08 – 09	6	2	12			4					8	2		34
09 – 10	3	1	10			3	1				11			29
10 – 11	10	4	15			3	1				6	3		42
11 – 12	2	3	19			1					6	1		32
12 – 13	4	2	20								4			30
13 – 14	6	5	13			1	1				2			28
14 – 15	8	6	15			4					5			38
15 – 16	8	2	14			1					2	1		28
16 – 17	13	4	30	1		6	1				5			60
17 – 18	9	4	14			2					2	2		33
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ12 X Hrs.	79	42	211	1		28	7				68	11		447
Ratio 24/x														

HOUR	DIR. B: From TALAGA To MABINI													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	3		35								11	1		50
07 – 08	12	4	28											44
08 – 09	4	1	18			1					9			33
09 – 10	9	3	15			5					6	2		40
10 – 11	12	3	15			3	2				10	2		47
11 – 12	1		13			3					5	1		23
12 – 13	7	5	16			1	3				4			36
13 – 14	7	4	13			2	1				1	1		29
14 – 15	6	1	17				1				1	1		27
15 – 16	7	2	17			2	6				6			40
16 – 17	3	1	15	1		3					2			25
17 – 18	6	6	4			5					4			25
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ12 X Hrs.	77	30	206	1		25	13				59	8		419
Ratio 24/x														

1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 11
7. TRUCK 12
8. TRK. TLR. 11-11
9. TRK. TLR. 11-12
10. TRK. TLR. 12-11
11. TRK. TLR. 12-12
12. SEMI TLR 111
13. SEMI TLR 112
14. SEMI TLR. 121
15. SEMI TLR. 122
16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-06 LOCATION BRGY. SAN JOSE, ANILAO DATE: 3-11-91

HOUR	DIR. A: From MABINI To SAN TEODORO													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01													1	
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	1		3								1			5
07 – 08			2								1	1		4
08 – 09	3	1	4											8
09 – 10	1		3											4
10 – 11	1													1
11 – 12	1	1	2											4
12 – 13	4	1	2			1					1	4		13
13 – 14	2	2	4											8
14 – 15			1			1								2
15 – 16	3	1	2								2	1		9
16 – 17	3	1	1			3					1	2		11
17 – 18	5	1	7											13
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ 12 X Hrs.	24	8				5					6	8		82
Ratio 24/x														

HOUR	DIR. B: From SAN TEODORO To MABINI													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	1		5								1	1		8
07 – 08	1		2								1	1		5
08 – 09	7		3									1		11
09 – 10	2	2	1											5
10 – 11	2	3	1											6
11 – 12	4	2				1						1		8
12 – 13	3	1	2								1	1		8
13 – 14	1	4	1											6
14 – 15	2		2									1		5
15 – 16	1	1				1					2	1		6
16 – 17	2	6	3								1	1		13
17 – 18	1	2	2			1								6
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ 12 X Hrs.	27	21	22			3					6	8		87
Ratio 24/x														

1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 11
7. TRUCK 12
8. TRK. TLR. 11-11
9. TRK. TLR. 11-12
10. TRK. TLR. 12-11
11. TRK. TLR. 12-12
12. SEMI TLR 111
13. SEMI TLR 112
14. SEMI TLR 121
15. SEMI TLR 122
16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-07 LOCATION BRGY. BANOYO, SAN LUIS DATE: 3-11-91

HOUR	DIR. A: From SAN LUIS To BALETE													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01													/	
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	-		15		2									17
07 – 08	1		15			1								17
08 – 09	2	2	7			2								13
09 – 10			10		2							1		13
10 – 11	2		9	2										13
11 – 12	-	1	15	1		1								18
12 – 13	3	2	9			1								15
13 – 14	1	2	3											6
14 – 15	-		6								1			7
15 – 16	1		15			1								17
16 – 17			16									1		17
17 – 18		1	19			2								22
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤12 X Hrs.	10	8	139	3	4	8					1	2		175
Ratio 24/x														

HOUR	DIR. B: From BALETE To SAN LUIS													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	2		22							1		1		26
07 – 08	1		15			1								17
08 – 09	-	1	14			2						1		18
09 – 10	2	1	8											11
10 – 11	-	1	7	2	2							1		13
11 – 12	1		11	1		1						1		15
12 – 13	2	1	5											8
13 – 14		2	6			1								6
14 – 15	2	1	4											7
15 – 16	1		11			1					1			14
16 – 17			17		2									19
17 – 18			12			2				1				15
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
≤ 24 Hrs.														
≤12 X Hrs.	11	7	132	3	4	8				2	1	4		172
Ratio 24/x														

1. CAR JEEP	PICK-UP 2. VAN	3. JEEPNEY	4. BUS MINI	5. BUS BIG	6. TRUCK 11	7. TRUCK 12	8. TRK. TLR. 11-11	9. TRK. TLR. 11-12	10. TRK. TLR. 12-11	11. TRK. TLR. 12-12	12. SEMI TLR 111	13. SEMI TLR 112	14. SEMI TLR. 121	15. SEMI TLR. 122	16. SPECIAL VEHICLE	17. TRI-CYCLE	18. MOTOR CYCLE	19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-08 LOCATION BRGY. GITNA, AGONCILLO, BATANGAS DATE: 3-11-91

HOUR	DIR. A: From SUBIC To AGONCILLO														DIR. B: From AGONCILLO To SUBIC												
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 - 01													1															
01 - 02																												
02 - 03																												
03 - 04																												
04 - 05																												
05 - 06																												
06 - 07	4	3	14								3			24	3	2	11								1	3		20
07 - 08	8		13											21	4		12								4			20
08 - 09	3		11									1		15	4		10									1		15
09 - 10	4		9								2	2		17	2		12								1	1		16
10 - 11	2		10											12	1		14								1	2		18
11 - 12	1	1	8								1	3		14	1	1	14								1	2		19
12 - 13	2		11			1					3	1		18	1	1	8								3			13
13 - 14	4		10								2	3		19	1		8								1			10
14 - 15	3		10			1						3		17	1		6								2	2		11
15 - 16	1		9			1					3	3		17			7									2		9
16 - 17	3		11			1					3	1		19	6		4	1		1						2		14
17 - 18	2	1	11			1					3	2		20	3	1	13			1					2	1		21
18 - 19																												
19 - 20																												
20 - 21																												
21 - 22																												
22 - 23																												
23 - 24																												
Σ 24 Hrs.																												
Σ 12 X Hrs.	37	5	127			5					20	19		213	27	5	119	1		2					16	16		186
Ratio 24/x																												

1. CAR JEEP	
PICK-UP 2. VAN	
3. JEEPNEY	
4. BUS MINI	
5. BUS BIG	
6. TRUCK	 11
7. TRUCK	 12
8. TRK. TLR.	 11-11
9. TRK. TLR.	 11-12
10. TRK. TLR.	 12-11
11. TRK. TLR.	 12-12
12. SEMI TLR	111
13. SEMI TLR	112
14. SEMI TLR.	121
15. SEMI TLR.	122
16. SPECIAL VEHICLE	
17. TRI-CYCLE	
18. MOTOR CYCLE	
19. ANIMAL DRAWN	

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-09 LOCATION BRGY. MAHAYAHAY DATE: 3-11-91

HOUR	DIR. A: From CALACA To LEMERY													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	56	26	52		2	51	1		5	1	5	14		213
07 – 08	28	10	30		1	12	8		1	1	2	11		109
08 – 09	40	15	30			13	14		7		6	3		128
09 – 10	27	11	46			48	10		10		21	12		185
10 – 11	22	7	52			32	10		2		2	9		136
11 – 12	21	8	17			4	10		3		2	6		71
12 – 13	14	4	29			18	3		1		3	2		74
13 – 14	37	7	40			10	16		5	1	2	8		126
14 – 15	33	29	10			7	11		9			3		102
15 – 16	23	1	26		1	10	10		7		4	5		87
16 – 17	26	3	30			12	13		2		4	9		99
17 – 18	18	9	37	1			10		9	1	21	8		114
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ12 X Hrs.	345	130	399	1	4	217	116		61	4	77	90		1444
Ratio 24/x														

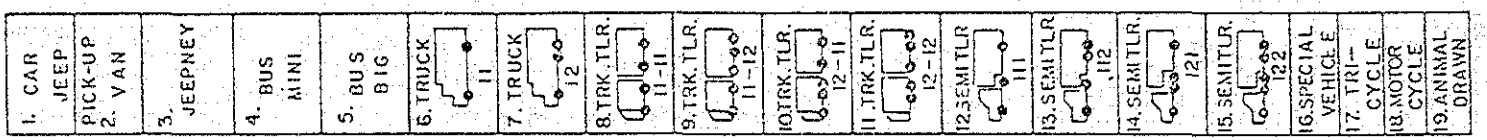
HOUR	DIR. B: From LEMERY To CALACA													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	40	18	46			32	17				16	11		180
07 – 08	21	6	47	1		8	6				6	11		106
08 – 09	26	8	25			15	7		13		2	12		108
09 – 10	28	9	40			68	6		5		4	3	2	165
10 – 11	30	5	22			21	3		7		2	8	1	99
11 – 12	26	7	20			13	11		6	1	5	7	1	97
12 – 13	18	5	26		1	30	2				7	5		94
13 – 14	40	11	36			23	26		11		18	11		176
14 – 15	31	8	32		1	10	8		11		9	8		118
15 – 16	15	1	14		1	14	12		5		1	5		68
16 – 17	16	6	38			6	25		8		2			101
17 – 18	13	8	41		1	1	25		11		4	8		112
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ12 X Hrs.	304	92	387	1	4	241	148		77	1	76	89	4	1424
Ratio 24/x														

1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 11
7. TRUCK 12
8. TRK. TLR. 11-11
9. TRK. TLR. 11-12
10. TRK. TLR. 12-11
11. TRK. TLR. 12-12
12. SEMI TLR 111
13. SEMI TLR 112
14. SEMI TLR. 121
15. SEMI TLR. 122
16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

TRAFFIC COUNT SUMMARY I

STA. NO. BATANGAS-10 LOCATION MAHAYAYHAY JCT. - TAGAYTAY BOUNDARY ROAD DATE: 3-11-91

HOUR	DIR. A : From LEMERY To TAGAYTAY														DIR. B : From TAGAYTAY To LEMERY											
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 - 01																												
01 - 02																												
02 - 03																												
03 - 04																												
04 - 05																												
05 - 06																												
06 - 07	3	11	2			4					1	4		25	2	4	7			4					4			21
07 - 08	1	7	6			2								16	4	5	6			1					1	5	1	23
08 - 09	6	15	4									3	1	29	2	6	6			2						1	2	19
09 - 10	2	3	8								3	1		17	4	1	3			2					1	1		12
10 - 11	2	5	6			1	1					2	2	19	5	2	7								2	4		20
11 - 12	2	2	4											8	2	5	9			1					2			19
12 - 13	4	6	5			2								17		10	6			2								18
13 - 14	3	9	4								1	1		18	4	6	7			1						1	1	20
14 - 15	6	5	2								1			14	3	4	2								1			10
15 - 16	4	3	6									3		16	3	1	5								1			10
16 - 17	3	1	5		1	1	1				2	1	1	16	2	4	5			1					3	1		16
17 - 18	3	6	5			2					5	2	2	25	6	9	3								4	4	2	28
18 - 19																												
19 - 20																												
20 - 21																												
21 - 22																												
22 - 23																												
23 - 24																												
≤ 24 Hrs.																												
≤12 x Hrs.	39	73	57		1	12	2				13	17	6	220	37	57	66			14					19	17	6	216
Ratio 24/x																												



TRAFFIC COUNT SUMMARY I

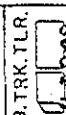
STA. NO. BATANGAS-11 LOCATION BRGY. SAMPALOC, TALISAY, BATANGAS DATE: 3-12-91

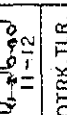
HOUR	DIR. A: From ___ To ___													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	5	3	6			1	1				3	2		21
07 – 08	3	4	2				2				4	1		17
08 – 09	4	2	4			1					2	2		15
09 – 10	5	2	2				1				2	1		13
10 – 11	3	1	3			2	1				1	1		12
11 – 12	6		2			2					2	2		14
12 – 13	3	1	3			1	1				1	1		11
13 – 14	3	1	2			1	1				2	1		11
14 – 15	5	1	2			2	2				1	1		14
15 – 16	4	2	2			3	1				1	1		14
16 – 17	3		1								1	2		7
17 – 18	1		2			1					2	1		7
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ 12 X Hrs.	45	17	32			14	10				22	16		156
Ratio 24/x														

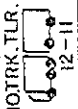
HOUR	DIR. B: From ___ To ___													
	1	2	3	4	5	6	7	8-11	12-15	16	17	18	19	TOTAL
24 – 01														
01 – 02														
02 – 03														
03 – 04														
04 – 05														
05 – 06														
06 – 07	5	2	8			3	1				2	2		23
07 – 08	5	3	5			1	2				2	1		19
08 – 09	3	1	3			1					2	3		13
09 – 10	3	1	5			2	3				1	1		16
10 – 11	6	1	5			1					4	1		18
11 – 12	5	3	4				1				2	1		16
12 – 13	5	2	3			1	1				2	3		17
13 – 14	3	3	3			2					2	2		15
14 – 15	5	2	4			1						1		13
15 – 16	5		5			1	2				3	3		19
16 – 17	2	3				1	1				3	2		12
17 – 18		1					1				3	2		10
18 – 19														
19 – 20														
20 – 21														
21 – 22														
22 – 23														
23 – 24														
Σ 24 Hrs.														
Σ 12 X Hrs.	47	19	51			14	12				26	22		191
Ratio 24/x														

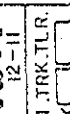
1. CAR JEEP
2. PICK-UP VAN
3. JEEPNEY
4. BUS MINI
5. BUS BIG
6. TRUCK 

7. TRUCK 

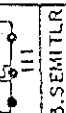
8. TRK. TLR. 

9. TRK. TLR. 

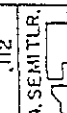
10. TRK. TLR. 

11. TRK. TLR. 

12. SEMI TLR 

13. SEMI TLR 

14. SEMI TLR. 

15. SEMI TLR. 

16. SPECIAL VEHICLE
17. TRI-CYCLE
18. MOTOR CYCLE
19. ANIMAL DRAWN

3. Conversion to AADT

CONVERSION TO AADT

STA. NO. BENGUET-01 Name of Road : Benguet - Itogon Road

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	101	1.36	137	1.40	192	0.86	165
Vans	97	1.36	132	1.40	185	0.86	158
Jeepney	416	1.40	582	1.19	693	0.87	604
Mini Bus	1	1.30	1	1.83	2	1.11	3
Large Bus	4	1.39	6	0.93	5	0.76	4
Truck (2-axle)	34	1.62	55	0.89	49	0.81	40
Truck (3-axle)	11	1.62	18	0.89	16	0.81	13
Truck Combination	1	1.68	2	1.11	2	0.68	1
Motorcycle	13	1.00	13	1.00	13	1.17	15
Tricycle	0	1.00	0	1.00	0	1.17	0
Total	678	-	946	-	1157	-	1003

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BENGUET-02 Name of Road: Benguet - Ambuklao Road.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	28	1.36	38	1.40	53	0.86	46
Vans	36	1.36	49	1.40	69	0.86	59
Jeepney	67	1.40	94	1.19	112	0.87	97
Mini Bus	3	1.30	4	1.83	7	1.11	8
Large Bus	2	1.39	3	0.93	3	0.76	2
Truck (2-axle)	21	1.62	34	0.89	30	0.81	25
Truck (3-axle)	4	1.62	6	0.89	6	0.81	5
Truck Combination	0	1.68	0	1.11	0	0.68	0
Motorcycle	1	1.00	1	1.00	1	1.17	1
Tricycle	0	1.00	0	1.00	0	1.17	0
Total	162	-	229	-	280	-	242

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BENGUET-03 Name of Road: Kapangan - Acop Road

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	6	1.36	8	1.40	11	0.86	10
Vans	13	1.36	18	1.40	25	0.86	21
Jeepney	43	1.40	60	1.19	72	0.87	62
Mini Bus	2	1.30	3	1.83	5	1.11	5
Large Bus	13	1.39	18	0.93	17	0.76	13
Truck (2-axle)	10	1.62	16	0.89	14	0.81	12
Truck (3-axle)	0	1.62	0	0.89	0	0.81	0
Truck Combination	0	1.68	0	1.11	0	0.68	0
Motorcycle	0	1.00	0	1.00	0	1.17	0
Tricycle	0	1.00	0	1.00	0	1.17	0
Total	87	-	123	-	144	-	123

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BENGUET-04 Name of Road: Kapangan - Kibungan Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	11	1.36	15	1.40	21	0.86	18
Vans	10	1.36	14	1.40	19	0.86	16
Jeepney	23	1.40	32	1.19	38	0.87	33
Mini Bus	4	1.30	5	1.83	10	1.11	11
Large Bus	11	1.39	15	0.93	14	0.76	11
Truck (2-axle)	6	1.62	10	0.89	9	0.81	7
Truck (3-axle)	0	1.62	0	0.89	0	0.81	0
Truck Combination	0	1.68	0	1.11	0	0.68	0
Motorcycle	0	1.00	0	1.00	0	1.17	0
Tricycle	0	1.00	0	1.00	0	1.17	0
Total	65	-	91	-	111	-	96

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BENGUET-05 Name of Road: Atok Province

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	7	1.36	10	1.40	13	0.86	11
Vans	11	1.36	15	1.40	21	0.86	18
Jeepney	7	1.40	10	1.19	12	0.87	10
Mini Bus	2	1.30	3	1.83	5	1.11	5
Large Bus	0	1.39	0	0.93	0	0.76	0
Truck (2-axle)	3	1.62	5	0.89	4	0.81	4
Truck (3-axle)	0	1.62	0	0.89	0	0.81	0
Truck Combination	0	1.68	0	1.11	0	0.68	0
Motorcycle	2	1.00	2	1.00	2	1.17	2
Tricycle	0	1.00	0	1.00	0	1.17	0
Total	32	-	44	-	57	-	51

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BENGUET-06 Name of Road: Cervantes - Abatan - Mankayan Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	40	1.36	54	1.40	76	0.86	65
Vans	82	1.36	112	1.40	156	0.86	134
Jeepney	101	1.40	141	1.19	168	0.87	147
Mini Bus	8	1.30	10	1.83	19	1.11	21
Large Bus	18	1.39	25	0.93	23	0.76	18
Truck (2-axle)	68	1.62	110	0.89	98	0.81	79
Truck (3-axle)	81	1.62	131	0.89	117	0.81	95
Truck Combination	0	1.68	0	1.11	0	0.68	0
Motorcycle	2	1.00	2	1.00	2	1.17	2
Tricycle	0	1.00	0	1.00	0	1.17	0
Total	400	-	586	-	660	-	561

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-01 Name of Road: Tanauan - Banga Jct.-Tagaytay Bdry Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	20	1.44	29	1.03	30	1.01	30
Vans	15	1.44	22	1.03	22	1.01	22
Jeepney	57	1.24	71	0.87	61	0.98	60
Mini Bus	0	1.54	0	0.40	0	0.84	0
Large Bus	0	1.43	0	0.98	0	0.96	0
Truck (2-axle)	2	1.87	4	1.10	4	0.98	4
Truck (3-axle)	0	1.87	0	1.10	0	0.98	0
Truck Combination	0	1.73	0	0.76	0	1.63	0
Motorcycle	2	1.00	2	1.00	2	1.04	2
Tricycle	0	1.00	0	1.00	0	1.04	0
Total	96	-	127	-	119	-	118

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-02 Name of Road: Lipa City - Balete - Mataasnakahoy Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	3	1.44	4	1.03	4	1.01	4
Vans	0	1.44	0	1.03	0	1.01	0
Jeepney	14	1.24	17	0.87	15	0.98	15
Mini Bus	0	1.54	0	0.40	0	0.84	0
Large Bus	0	1.43	0	0.98	0	0.96	0
Truck (2-axle)	0	1.87	0	1.10	0	0.98	0
Truck (3-axle)	0	1.87	0	1.10	0	0.98	0
Truck Combination	0	1.73	0	0.76	0	1.63	0
Motorcycle	9	1.00	9	1.00	9	1.04	9
Tricycle	5	1.00	5	1.00	5	1.04	5
Total	31	-	36	-	33	-	34

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-03 Name of Road: Calitcalit Jct.- Pinagbayanan Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	13	1.44	19	0.97	18	1.01	18
Vans	16	1.44	23	0.97	22	1.01	23
Jeepney	49	1.24	61	0.96	58	0.98	57
Mini Bus	0	1.60	0	1.00	0	0.84	0
Large Bus	0	1.43	0	0.97	0	0.96	0
Truck (2-axle)	31	1.87	58	0.97	56	0.98	55
Truck (3-axle)	24	1.87	45	0.97	44	0.98	43
Truck Combination	0	1.73	0	1.27	0	1.63	0
Motorcycle	21	1.00	21	1.00	21	1.04	22
Tricycle	47	1.00	47	1.00	47	1.04	49
Total	201	-	273	-	267	-	267

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-04 Name of Road: Tiquiwan - Pinagsibaan - Salao Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	120	1.44	173	1.03	177	1.01	179
Vans	0	1.44	0	1.03	0	1.01	0
Jeepney	140	1.24	174	0.87	150	0.98	147
Mini Bus	0	1.54	0	0.40	0	0.84	0
Large Bus	0	1.43	0	0.98	0	0.96	0
Truck (2-axle)	2	1.87	4	1.10	4	0.98	4
Truck (3-axle)	2	1.87	4	1.10	4	0.98	4
Truck Combination	0	1.73	0	0.76	0	1.63	0
Motorcycle	4	1.00	4	1.00	4	1.04	4
Tricycle	11	1.00	11	1.00	11	1.04	11
Total	279	-	369	-	351	-	350

Source: Traffic Survey by Study Team (March 1991)

S U M M A R Y

MANUAL TRAFFIC CLASSIFICATION COUNT

STA. NO. BATANGAS-05 Name of Road: Mabini - Talaga - Malimatok Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	156	1.44	225	0.97	218	1.01	220
Vans	72	1.44	104	0.97	101	1.01	102
Jeepney	417	1.24	517	0.96	496	0.98	486
Mini Bus	2	1.60	3	1.00	3	0.84	3
Large Bus	0	1.43	0	0.97	0	0.96	0
Truck (2-axle)	53	1.87	99	0.97	96	0.98	94
Truck (3-axle)	20	1.87	37	0.97	36	0.98	36
Truck Combination	19	0	0	1.27	0	1.63	0
Motorcycle	21	1.00	21	1.00	21	1.04	22
Tricycle	127	1.00	127	1.00	127	1.04	132
Total	887	-	1133	-	1098	-	1094

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-06 Name of Road: Mabini - Anilao - Teodoro Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	31	1.44	45	0.97	43	1.01	44
Vans	29	1.44	42	0.97	41	1.01	41
Jeepney	53	1.24	66	0.96	63	0.98	62
Mini Bus	0	1.60	0	1.00	0	0.84	0
Large Bus	0	1.43	0	0.97	0	0.96	0
Truck (2-axle)	8	1.87	15	0.97	15	0.98	14
Truck (3-axle)	0	1.87	0	0.97	0	0.98	0
Truck Combination	0	0	0	1.27	0	1.63	0
Motorcycle	16	1.00	16	1.00	16	1.04	17
Tricycle	12	1.00	12	1.00	12	1.04	12
Total	149	-	195	-	189	-	190

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-07 Name of Road: Sta Maria- Banoyo-San Luis Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	21	1.44	30	0.97	29	1.01	30
Vans	15	1.44	22	0.97	21	1.01	21
Jeepney	271	1.24	336	0.96	323	0.98	316
Mini Bus	6	1.60	10	1.00	10	0.84	8
Large Bus	8	1.43	11	0.97	11	0.96	11
Truck (2-axle)	16	1.87	30	0.97	29	0.98	28
Truck (3-axle)	0	1.87	0	0.97	0	0.98	0
Truck Combination	0	1.73	0	1.27	0	1.63	0
Motorcycle	3	1.00	3	1.00	3	1.04	3
Tricycle	3	1.00	3	1.00	3	1.04	3
Total	343	-	445	-	429	-	420

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-08 Name of Road: Lemery - Agoncillo Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	64	1.44	92	0.97	89	1.01	90
Vans	10	1.44	14	0.97	14	1.01	14
Jeepney	246	1.24	305	0.96	293	0.98	287
Mini Bus	1	1.60	2	1.00	2	0.84	1
Large Bus	0	1.43	0	0.97	0	0.96	0
Truck (2-axle)	7	1.87	13	0.97	13	0.98	12
Truck (3-axle)	0	1.87	0	0.97	0	0.98	0
Truck Combination	0	1.73	0	1.27	0	1.63	0
Motorcycle	35	1.00	35	1.00	35	1.04	36
Tricycle	35	1.00	35	1.00	35	1.04	36
Total	398	-	496	-	480	-	478

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-09 Name of Road: Calaca - Taal Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	649	1.44	935	0.97	907	1.01	916
Vans	222	1.44	320	0.97	310	1.01	313
Jeepney	786	1.24	975	0.96	936	0.98	917
Mini Bus	2	1.60	3	1.00	3	0.84	3
Large Bus	8	1.43	11	0.97	11	0.96	11
Truck (2-axle)	458	1.87	856	0.97	831	0.98	814
Truck (3-axle)	264	1.87	494	0.97	479	0.98	469
Truck Combination	138	1.73	239	1.27	303	1.63	494
Motorcycle	179	1.00	179	1.00	179	1.04	186
Tricycle	153	1.00	153	1.00	153	1.04	159
Total	2859	-	4164	-	4111	-	4282

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-10 Name of Road: Mahayahay - Tagaytay Bdry. Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	76	1.44	109	0.97	106	1.01	107
Vans	130	1.44	187	0.97	182	1.01	183
Jeepney	123	1.24	153	0.96	146	0.98	143
Mini Bus	0	1.60	0	1.00	0	0.84	0
Large Bus	1	1.43	1	0.97	1	0.96	1
Truck (2-axle)	26	1.87	49	0.97	47	0.98	46
Truck (3-axle)	2	1.87	4	0.97	4	0.98	4
Truck Combination	0	1.73	0	1.27	0	1.63	0
Motorcycle	34	1.00	34	1.00	34	1.04	35
Tricycle	32	1.00	32	1.00	32	1.04	33
Total	424	-	569	-	552	-	554

Source: Traffic Survey by Study Team (March 1991)

CONVERSION TO AADT

STA. NO. BATANGAS-11 Name of Road: Banga Jct. - Laurel Rd.

Vehicle Type	12-hour Count	24-hour Adj. Factor	Expanded 24 - hour	Daily Factor	ADT	Seasonal Factor	AADT
Cars	92	1.44	132	1.03	136	1.01	137
Vans	36	1.44	52	1.03	53	1.01	54
Jeepney	83	1.24	103	0.87	89	0.98	87
Mini Bus	0	1.54	0	0.40	0	0.84	0
Large Bus	0	1.43	0	0.98	0	0.96	0
Truck (2-axle)	28	1.87	52	1.10	58	0.98	56
Truck (3-axle)	22	1.87	41	1.10	45	0.98	44
Truck Combination	0	1.73	0	0.76	0	1.63	0
Motorcycle	38	1.00	38	1.00	38	1.04	40
Tricycle	48	1.00	48	1.00	48	1.04	50
Total	347	-	467	-	467	-	468

Source: Traffic Survey by Study Team (March 1991)

4. TRAFFIC VOLUME (AADT) IN LEYTE 1990)

Station No.	Car/Jeep/Van	Jeepney	Bus	Truck	Total	Sub-cycle	Motor-cycle	Tri-Total	
Leyte - 01	70	77	28	33	207	69	29	305	
Leyte - 02	341	314	150	162	967	150	65	1,182	
Leyte - 03	2,137	2,236	340	479	5,190	850	226	6,266	
Leyte - 04	532	656	132	152	1,472	239	30	1,741	
Leyte - 05	57	117	4	19	196	147	215	558	
Leyte - 06	341	281	119	78	819	144	40	1,003	
Leyte - 07	241	78	111	69	500	113	376	989	
Leyte - 08	35	7	17	18	76	17	0	92	
Leyte - 09	47	18	22	12	100	0	58	158	
Leyte - 10	189	52	81	49	371	43	3	417	
Leyte - 11	143	135	20	43	341	142	111	594	
Leyte - 12	79	61	3	19	162	311	487	960	
Leyte - 13	531	316	112	224	1,183	249	25	1,457	
Leyte - 14	397	166	76	81	718	359	446	1,523	
Leyte - 15	16	42	0	11	68	494	2	565	
Leyte - 16	44	2	0	8	54	598	2	655	
Leyte - 17	346	157	53	35	592	446	133	1,171	
Leyte - 18	348	151	139	246	884	189	17	1,090	
Leyte - 19	176	98	356	55	686	1,352	52	2,089	
Leyte - 20	48	2	4	66	121	471	1	593	
Leyte - 21	190	181	41	38	450	47	88	585	
Leyte - 22	6	7	0	0	13	39	73	124	
Leyte - 23	129	55	42	67	294	123	147	565	
Leyte - 24	91	65	34	51	240	122	2	364	
Leyte - 25	301	127	68	172	668	615	59	1,343	
Leyte - 26	89	48	41	73	251	85	195	530	
Leyte - 27	24	64	12	90	190	141	175	506	
Leyte - 28	78	50	42	147	317	191	275	783	

SOURCE: Feasibility Study on the Rural Network Development Project

APPENDIX 9-4

PRESENT AND PROJECTED POPULATION

1. PRESENT AND FUTURE POPULATION BY CITY/MUNICIPALITY

PRESENT AND PROJECTED POPULATION
-PROVINCE OF BENGUET-

City/ Municipality	Land Area (km²)	Population (Census) 1990	Projected Population		
			2000	2010	2020
1. Atok	137.0	13,853	17,664	20,866	23,673
2. Baguio City	48.9	183,102	233,473	275,799	312,897
3. Bakun	237.3	10,817	13,793	16,293	18,485
4. Bukod	425.3	11,474	14,630	17,282	19,606
5. Buguisas	193.1	25,236	32,178	38,011	43,124
6. Itogon	423.7	61,773	78,767	93,046	105,562
7. Kabayan	177.5	10,306	13,141	15,523	17,611
8. Kapangan	136.4	15,537	19,811	23,402	26,550
9. Kibungan	192.1	12,753	16,261	19,209	21,793
10. La Trinidad	61.4	48,252	61,526	72,680	82,456
11. Mankayan	131.7	32,889	41,937	49,540	56,204
12. Sablan	91.6	8,440	10,762	12,713	14,423
13. Tuba	314.4	39,365	50,538	59,700	67,730
14. Tublay	84.9	11,479	14,637	17,290	19,616
T o t a l	2,655.4	485,546	619,119	731,357	829,731

PRESENT AND PROJECTED POPULATION
-PROVINCE OF BATANGAS-

City/ Municipality	Land Area (km²)	Population (Census) 1990	Projected Population		
			2000	2010	2020
1. Agoncillo	54.7	20,227	24,392	27,865	30,689
2. Alitagtag	23.4	16,016	19,314	22,064	24,300
3. Balayan	108.7	53,870	64,962	74,211	81,732
4. Balete	25.0	11,678	14,083	16,088	17,718
5. Bauan	66.0	59,258	71,460	81,634	89,907
6. Calaca	100.3	45,377	54,721	62,512	68,847
7. Calatagan	112.0	35,543	42,862	48,964	53,926
8. Cuenca	40.4	20,176	24,330	27,794	30,611
9. Ibaan	99.0	31,220	37,649	43,009	47,368
10. Laurel	68.1	22,099	26,649	30,443	33,528
11. Lemery	101.6	53,932	65,037	74,297	81,827
12. Lian	76.8	31,296	37,740	43,113	47,482
13. Lobo	192.7	26,881	32,416	37,031	40,784
14. Mabini	43.0	30,474	36,749	41,981	46,236
15. Malvar	36.5	24,253	29,247	33,441	36,797
16. Mataas na Kahoy	22.1	15,240	18,378	20,995	23,123
17. Nasugbo	263.0	75,515	91,064	104,029	114,572
18. Padre Garcia	93.7	25,958	31,303	35,760	39,384
19. Rosario	189.4	66,923	80,703	92,193	101,536
20. San Jose	49.5	38,680	46,645	53,286	58,686
21. San Juan	273.4	67,741	81,690	93,321	102,779
22. San Luis	39.2	22,143	26,703	30,505	33,597
23 Nicolas	26.6	13,174	15,887	18,149	19,988
24. San Pascual	35.0	34,629	41,459	47,705	52,540
25. Sta. Teresita	12.5	12,005	14,477	16,538	18,214
26. Sto. Tomas	91.1	58,209	70,195	80,189	88,316
27. Taal	29.7	34,925	42,116	48,112	52,988
28. Talisay	28.2	23,153	27,920	31,895	35,127
29. Tanauan	107.2	92,754	111,853	127,778	140,728
30. Taysan	109.4	22,508	27,143	31,008	34,150
31. Tingloy	32.4	15,430	18,607	21,256	23,410
32. Tuy	122.4	30,409	36,671	41,892	46,138
33. Batangas City	283.0	184,970	223,058	254,816	280,640
34. Lipa City	209.4	160,117	193,087	220,578	242,933
T O T A L	3,165.4	1,476,783	1,780,870	2,034,423	2,240,602

PRESENT AND PROJECTED POPULATION
-PROVINCE OF LEYTE-

City/ Municipality	Land Area (km²)	Population (Census) 1990	Projected Population		
			2000	2010	2020
1. Tacloban City	100.9	137,190	153,657	167,063	179,132
2. Ormoc City	464.3	129,456	144,995	157,645	169,034
3. Abuyog	294.7	47,265	52,938	57,557	61,715
4. Alangalang	150.5	33,375	37,381	40,642	43,578
5. Albuera	181.2	32,395	36,283	39,449	42,299
6. Babatngon	137.8	17,795	19,931	21,670	23,236
7. Barugo	78.5	23,817	26,676	29,003	31,098
8. Bato	87.1	28,197	31,582	34,337	36,818
9. Baybay	410.5	82,281	92,157	100,197	107,436
10. Burauen	178.0	46,029	51,554	56,052	60,102
11. Calubian	137.0	25,968	29,085	31,623	33,908
12. Capoocan	185.4	23,687	26,530	28,845	30,929
13. Carigara	94.9	38,863	43,528	47,326	50,745
14. Dagami	160.0	25,606	28,679	31,181	33,434
15. Dulag	39.0	33,020	36,983	40,210	43,115
16. Hilongos	136.9	48,617	54,452	59,203	63,480
17. Hindang	127.4	16,272	18,225	19,815	21,247
18. Inopacan	182.4	16,894	18,922	20,573	22,059
19. Isabel	97.5	33,389	37,397	40,660	43,598
20. Jaro	148.7	31,727	35,535	38,635	41,426
21. Javier	141.8	18,658	20,898	22,721	24,363
22. Julita	53.3	9,944	11,138	12,110	12,985
23. Kananga	144.2	36,288	40,644	44,190	47,383
24. La Paz	171.5	14,311	16,029	17,427	18,686
25. Leyte	238.3	32,575	36,485	39,668	42,534
26. Mac Arthur	48.6	13,159	14,738	16,024	17,182
27. Mahaplag	172.0	22,673	25,394	27,610	29,605
28. Matag-ob	31.7	15,474	17,331	18,843	20,204
29. Matalom	75.4	28,291	31,687	34,452	36,941
30. Mayorga	61.6	10,530	11,794	12,823	13,749
31. Merida	122.7	22,345	25,027	27,211	29,177
32. Palo	67.6	38,100	42,673	46,396	49,748
33. Palompon	104.0	45,745	51,236	55,706	59,731
34. Pastrana	79.3	12,565	14,073	15,301	16,406
35. San Isidro	109.2	24,442	27,376	29,765	31,915
36. San Miguel	120.1	13,438	15,051	16,364	17,546
37. Santa Fe	81.9	12,119	13,574	14,758	15,824
38. Tabango	129.2	29,743	33,313	36,219	38,836
39. Tabon-Tabon	23.9	7,183	8,045	8,747	9,379
40. Tanauan	68.1	38,033	42,598	46,315	49,661
41. Tolosa	31.7	13,299	14,895	16,195	17,365
42. Tunga	38.2	5,413	6,063	6,592	7,068
43. Villaba	126.0	32,339	36,221	14,629	42,226
44. Almeria	65.5	12,013	13,455	14,042	15,686
45. Biliran	86.3	11,531	12,915	14,629	15,056
46. Cabucgayan	49.4	15,240	17,069	18,558	19,899
47. Caibiran	75.4	17,596	19,708	21,427	22,975
48. Culaba	95.4	9,822	11,001	11,961	12,825
49. Kawayan	44.7	15,056	16,863	18,334	19,659
50. Naval	107.1	29,811	33,389	36,302	38,925
51. Maripipi	31.7	6,943	7,776	8,454	9,065
T O T A L	6,188.5	1,486,522	1,664,949	1,810,211	1,940,933

2. POPULATION WITHIN ROAD INFLUENCE AREA OF MINOR ROADS

POPULATION WITHIN ROAD INFLUENCE AREA OF MINOR ROADS
-PROVINCE OF BENGUET-

Name of Road	Population 1990	Projected Population 2000	2010	2020
1. Baguio-Bokod Road	18,906	24,107	28,477	32,307
2. Kapangan-Acop Road	12,723	16,223	19,164	21,742
3. Kibungan-Kapangan Road	12,809	16,333	19,294	21,889
4. Atok-Provincial Road	8,167	10,414	12,302	13,957

POPULATION WITHIN ROAD INFLUENCE AREA OF MINOR ROADS
-PROVINCE OF BATANGAS-

Name of Road	Population 1990	Projected Population 2000	2010	2020
1. Lipa City-Balete Road	28,563	34,444	39,348	43,336
2. Pinagbayanan Road	13,857	16,710	19,089	21,024
3. Baybayin Road	16,882	20,358	23,256	25,613
4. Bugaan-Tubig Road	6,236	7,520	8,591	9,462
5. Tubig-Agoncillo Road	7,705	9,291	10,613	11,689

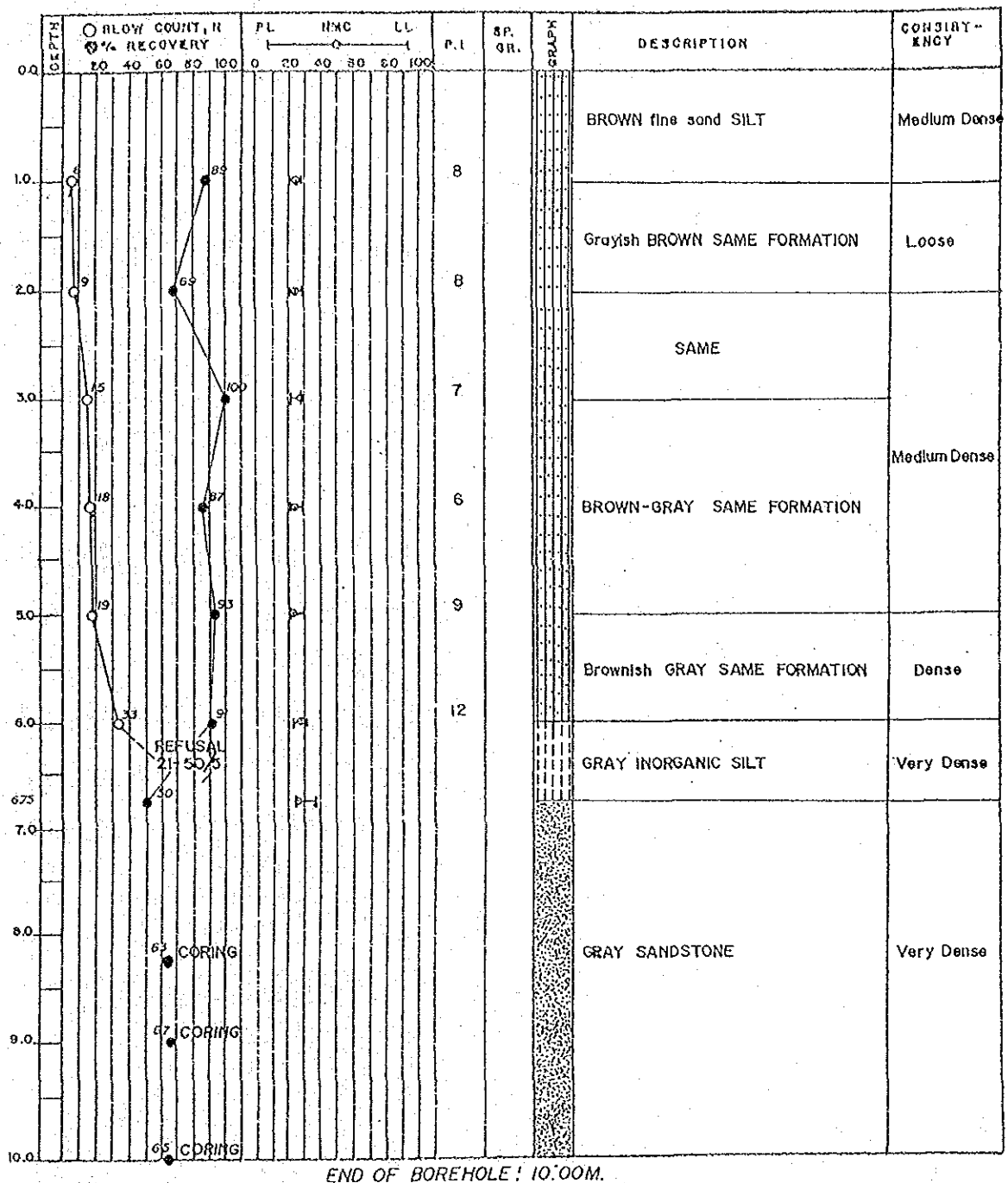
POPULATION WITHIN ROAD INFLUENCE AREA OF MINOR ROADS
-PROVINCE OF LEYTE-

Name of Road	Population 1990	Projected Population 2000	2010	2020
1. Babatngon-Sta. Cruz Road	8,095	9,067	9,858	10,570
2. Abuyog - Nebga Road	13,575	15,204	16,530	17,724
3. Albuera-Barauen Road	11,551	12,937	14,066	15,082
4. Barugo-Bagacay Road	18,331	20,531	22,322	23,935
5. Kanangan-Milagros Road	11,702	13,107	14,251	15,281
6. Oromoc-Lake Danao Road	3,171	3,552	3,862	4,141
7. Mahagnao Road	5,821	6,520	7,089	7,601
8. Sto. Domingo Road	5,205	5,829	6,338	6,797

APPENDIX 10-1
GEOTECHNICAL SURVEY DATA

FINAL BORING LOG

Project: Feasibility Study on the Restoration of Rural Roads
Hole designation: BH-1
Date started: January 31, 1991
Location: SPOT #36 Talisay – Taggaytay Road
Date completed: February 01, 1991
Drilling method: Wash Boring & Coring
Water elevation: 8.25 m
Sampler used: 2" O.D Split Spoon & BXL Core Barrel
Collar elevation:
Hammer fall: 76 cm
Hammer weight: 63.50 kg



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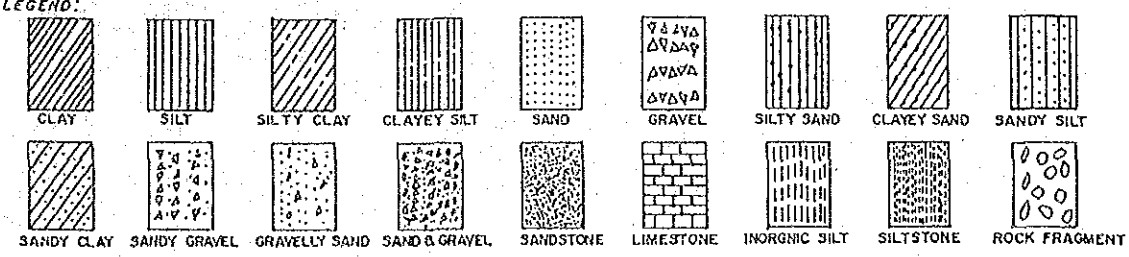


PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Talisay - Tagaytay Road
SPOT NO. : 36
BOREHOLE NO. : 1

FIELD TEST RESULTS

DEPTH (M)	SAMPLE NO.	N - VALUE (30 cm)	RECOVERY (D/R)
0.55 - 1.00	SS - 1	6	40/45
1.55 - 2.00	SS - 2	9	31/45
2.55 - 3.00	SS - 3	15	45/45
3.55 - 4.00	SS - 4	18	39/45
4.55 - 5.00	SS - 5	19	42/45
5.55 - 6.00	SS - 6	33	41/45
6.55 - 7.00	SS - 7	21,50/5	10/20
7.75 - 8.25	CS - 1	CORING	95/150
8.25 - 9.00	CS - 2	CORING	50/75
9.00 -10.00	CS - 3	CORING	65/100

PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Talisay - Tagaytay Road
SPOT NO. : 36
BOREHOLE NO. : 1

LABORATORY TEST RESULTS

DEPTH (M)	SAMPLE NO.	NMC (%)	LL (%)	PL (%)	PI (%)	USC	REMARK
0.55 - 1.00	SS - 1	24	28	20	8	SM	*
1.55 - 2.00	SS - 2	25	29	21	8	SM8	
2.55 - 3.00	SS - 3	29	29	22	7	SM	*
3.55 - 4.00	SS - 4	24	28	22	6	SM	
4.55 - 5.00	SS - 5	22	30	21	9	SM	*
5.55 - 6.00	SS - 6	29	31	23	9	SM	
6.55 - 7.00	SS - 7	27	37	25	12	SM	*
7.55 - 8.00	SS - 8	-	-	-	-	-	
8.55 - 9.00	SS - 9	-	-	-	-	-	
9.55 -10.00	SS -10	-	-	-	-	-	

LEGEND:

* HAVE GRAIN SIZE DISTRIBUTION

FINAL BORING LOG

Project Feasibility Study for the Restoration of Rural Roads

Location Spot 66 Balete - Matoas na Kahoy Road

Drilling method Wash boring

Sampler used 2"O.D SS

Hammer fall 76 cm.

Hole designation BH-1

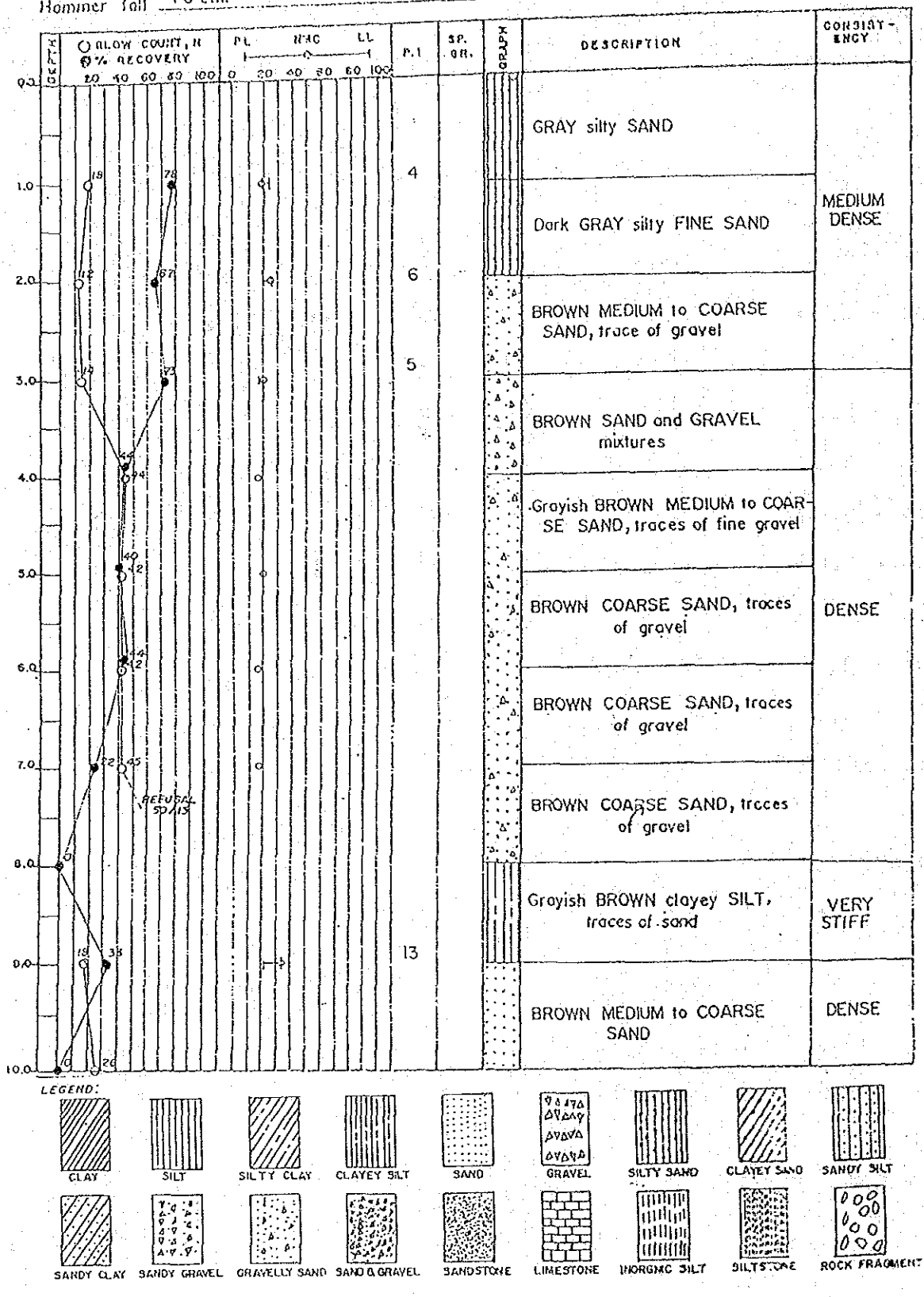
Date started 02 Feb 91

Date completed 04 Feb 91

Water elevation 0.55 m.

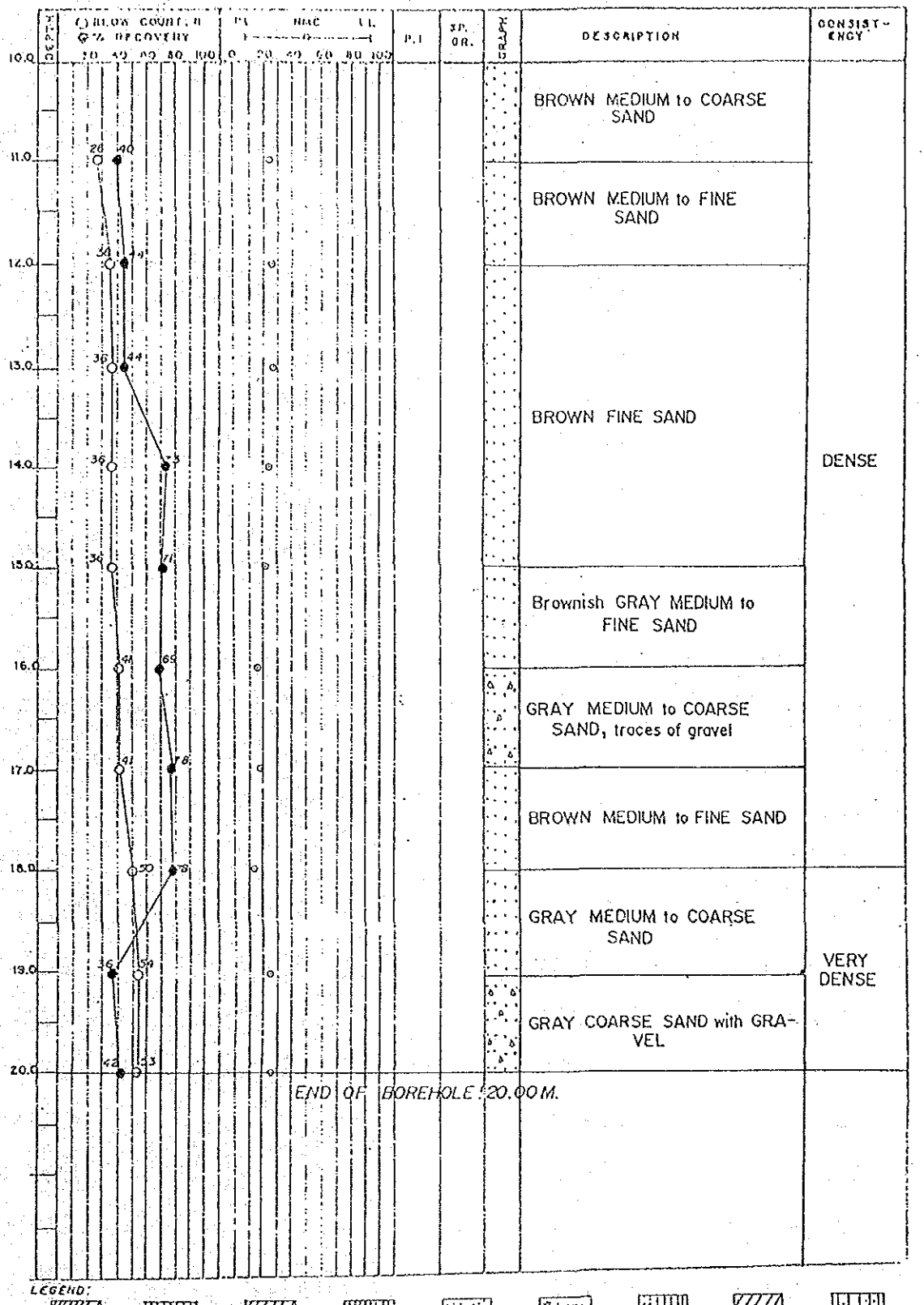
Collar elevation

Hammer weight 63.50 kg.



FINAL BORING LOG

Project Feasibility Study for the Restoration of Rural Road Hole designation Spot 66: BH-1



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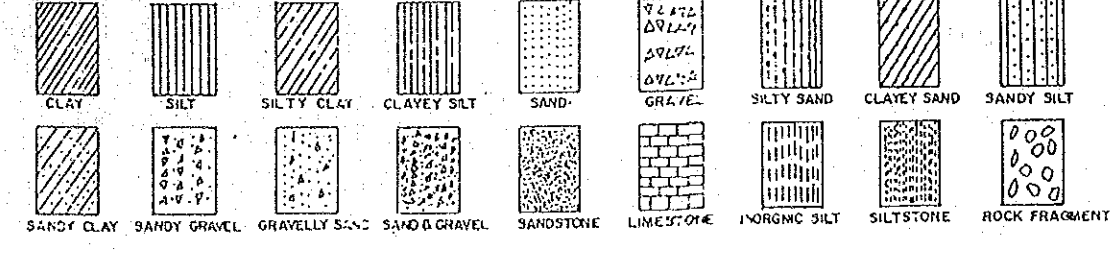


PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Balete-MATAAS NA KAHOY
SPOT NO. : 66
BOREHOLE NO. : 1

FIELD TEST RESULTS

DEPTH (M)	SAMPLE NO.	N - VALUE (30 cm)	RECOVERY (d/r)
0.55- 1.00	SS- 1	18	35/45
1.55- 2.00	SS- 2	12	30/45
2.55- 3.00	SS- 3	14	33/45
3.55- 4.00	SS- 4	44	20/45
4.55- 5.00	SS- 5	42	18/45
5.55- 6.00	SS- 6	42	20/45
6.55- 7.00	SS- 7	45	10/45
7.55- 8.00	SS- 8	50/15	NO RECOVERY
8.55- 9.00	SS- 9	18	15/45
9.55-10.00	SS-10	26	NO RECOVERY
10.55-11.00	SS-11	28	18/45
11.55-12.00	SS-12	35	20/45
12.55-13.00	SS-13	36	20/45
13.55-14.00	SS-14	36	33/45
14.55-15.00	SS-15	36	32/45
15.55-16.00	SS-16	41	31/45
16.55-17.00	SS-17	41	35/45
17.55-18.00	SS-18	50	35/45
18.55-19.00	SS-19	54	16/45
19.55-20.00	SS-20	53	19/45

PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Balete - Mataas na Kahoy Road
SPOT NO. : 66
BOREHOLE NO. : 1

LABORATORY TEST RESULTS

DEPTH (M)	SAMPLE NO.	NMC (%)	LL (%)	PL (%)	PI	USC	REMARK
0.55- 1.00	SS- 1	19	23	19	4	SM	
1.55- 2.00	SS- 2	25	26	20	6	SW-SC	*
2.55- 3.00	SS- 3	20	24	19	5	SM	
3.55- 4.00	SS- 4	18	-	NP	-	GP	*
4.55- 5.00	SS- 4	-	-	NP	-	SP	
5.55- 6.00	SS- 6	17	-	NP	-	SW-SM	*
6.55- 7.00	SS- 7	18	-	NP	-	SP	
7.55- 8.00	S-X-1	-	-	-	-	-	NO RECOVERY
8.55- 9.00	SS- 8	34	35	22	13	ML	*
9.55-10.00	S-X 2	-	-	-	-	-	NO RECOVERY
10.55-11.00	SS- 9	24	-	NP	-	SP	
11.55-12.00	SS-10	26	-	NP	-	SW-SM	*
12.55-13.00	SS-11	27	-	NP	-	SW-SM	
13.55-14.00	SS-12	24	-	NP	-	SW-SM	*
14.55-15.00	SS-13	21	-	NP	-	SM	
15.55-16.00	SS-14	16	-	NP	-	SP	*
16.55-17.00	SS-15	19	-	NP	-	SP	
17.55-18.00	SS-16	14	-	NP	-	SP	*
18.55-19.00	SS-17	25	-	NP	-	SP	
19.55-20.00	SS-18	26	-	NP	-	SP	*

LEGEND:

* HAVE GRAIN SIZE DISTRIBUTION GRAPH

FINAL BORING LOG

Project: Feasibility Study for the Restoration of Rural Roads

Location: Spot II Benguet - Itogon Road

Drilling method: Wash boring

Sampler used: 2"O.D SS

Hammer fall: 76 cm.

Hole designation: BH-I

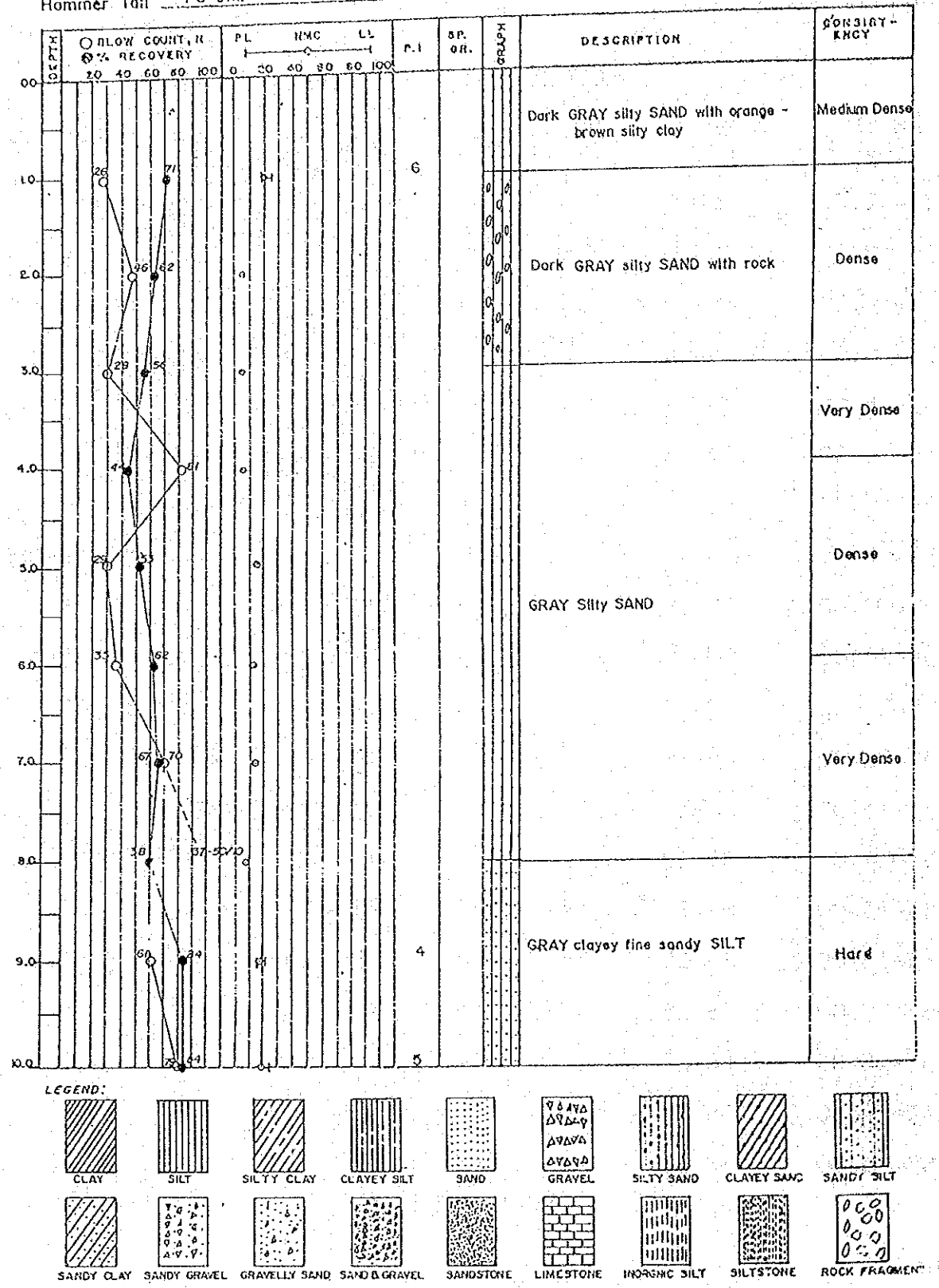
Date started: 05 Feb.91

Date completed: 07 Feb.91

Water elevation: 4.00 m.

Collar elevation:

Hammer weight: 63.50 kg.



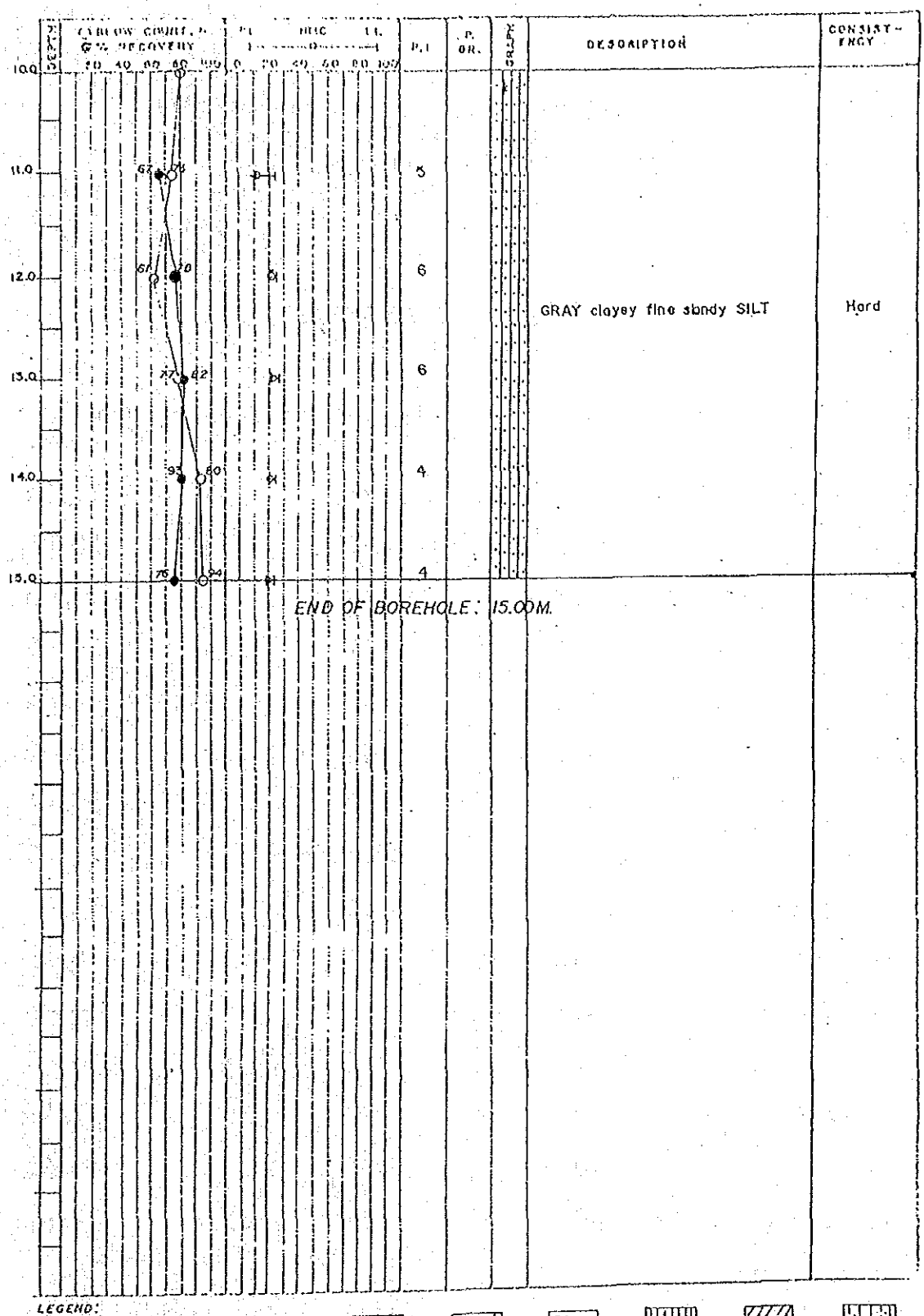
LEGEND:

CLAY | SILT | SILTY CLAY | CLAYEY SILT | SAND | GRAVEL | SILTY SAND | CLAYEY SAND | SANDY SILT

SANDY CLAY | SANDY GRAVEL | GRAVELLY SAND | SAND & GRAVEL | SANDSTONE | LIMESTONE | INORGNIC SILT | SILTSTONE | ROCK FRAGMENT

FINAL BORING LOG

Project Feasibility Study for the Restoration of Rural Road Hole designation Spot II BH-1



PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Benguet - Itogon Road
SPOT NO. : 11
BOREHOLE NO. : 1

FIELD TEST RESULTS

DEPTH (M)	SAMPLE NO.	N - VALUE (30 cm)	RECOVERY (d/r)
0.55- 1.00	SS- 1	26	32/45
1.55- 2.00	SS- 2	46	28/45
2.55- 3.00	SS- 3	28	25/45
3.55- 4.00	SS- 4	81	20/45
4.55- 5.00	SS- 5	29	2 /45
5.55- 6.00	SS- 6	35	28/45
6.55- 7.00	SS- 7	70	30/45
7.55- 8.00	SS- 8	37.50/10	15/25
8.55- 9.00	SS- 9	61	38/45
9.55-10.00	SS-10	79	38/45
10.55-11.00	SS-11	73	30/45
11.55-12.00	SS-12	61	35/45
12.55-13.00	SS-13	77	37/45
13.55-14.00	SS-14	93	36/45
14.55-15.00	SS-15	94	34/45

PROJECT : Feasibility Study for the Restoration o
of Rural Road
LOCATION : Benguet - Itogon Road
SPOT NO. : 11
BOREHOLE NO. : 1

LABORATORY TEST RESULTS

DEPTH (M)	SANPLE NO.	NMC (%)	LL (%)	PL (%)	PI	USC	REMARK
0.55- 1.00	SS- 1	20	25	19	6	SM	*
1.55- 2.00	SS- 2	6	-	NP	-	GW-GM	
2.55- 3.00	SS- 3	5	-	NP	-	GW-GM	*
3.55- 4.00	SS- 4	6	-	NP	-	SW-SM	
4.55- 5.00	SS- 5	16	-	NP	-	SW-SM	*
5.55- 6.00	SS- 6	11	-	NP	-	SW-SM	
6.55- 7.00	SS- 7	12	-	NP	-	SW-SM	*
7.55- 8.00	SS- 8	9	-	NP	-	SW-SM	
8.55- 9.00	SS- 9	19	22	18	4	SM	*
9.55-10.00	SS-10	20	25	20	5	SM	
10.55-11.00	SS-11	21	24	19	5	SM	*
11.55-12.00	SS-12	21	26	20	6	SM	
12.55-13.00	SS-13	22	27	21	6	SM	*
13.55-14.00	SS-14	21	24	20	4	SM	
14.55-15.00	SS-15	20	23	19	4	SM	*

LEGEND:

* HAVE GRAIN SIZE DISTRIBUTION GRAPH

FINAL BORING LOG

Project: Feasibility Study for the Restoration of Rural Roads

Location: Spot LL Benguet - Ilogon Road

Drilling method: Wash boring

Sampler used: 2"O.D SS

Hammer fall: 76 cm.

Hole designation: BH-2

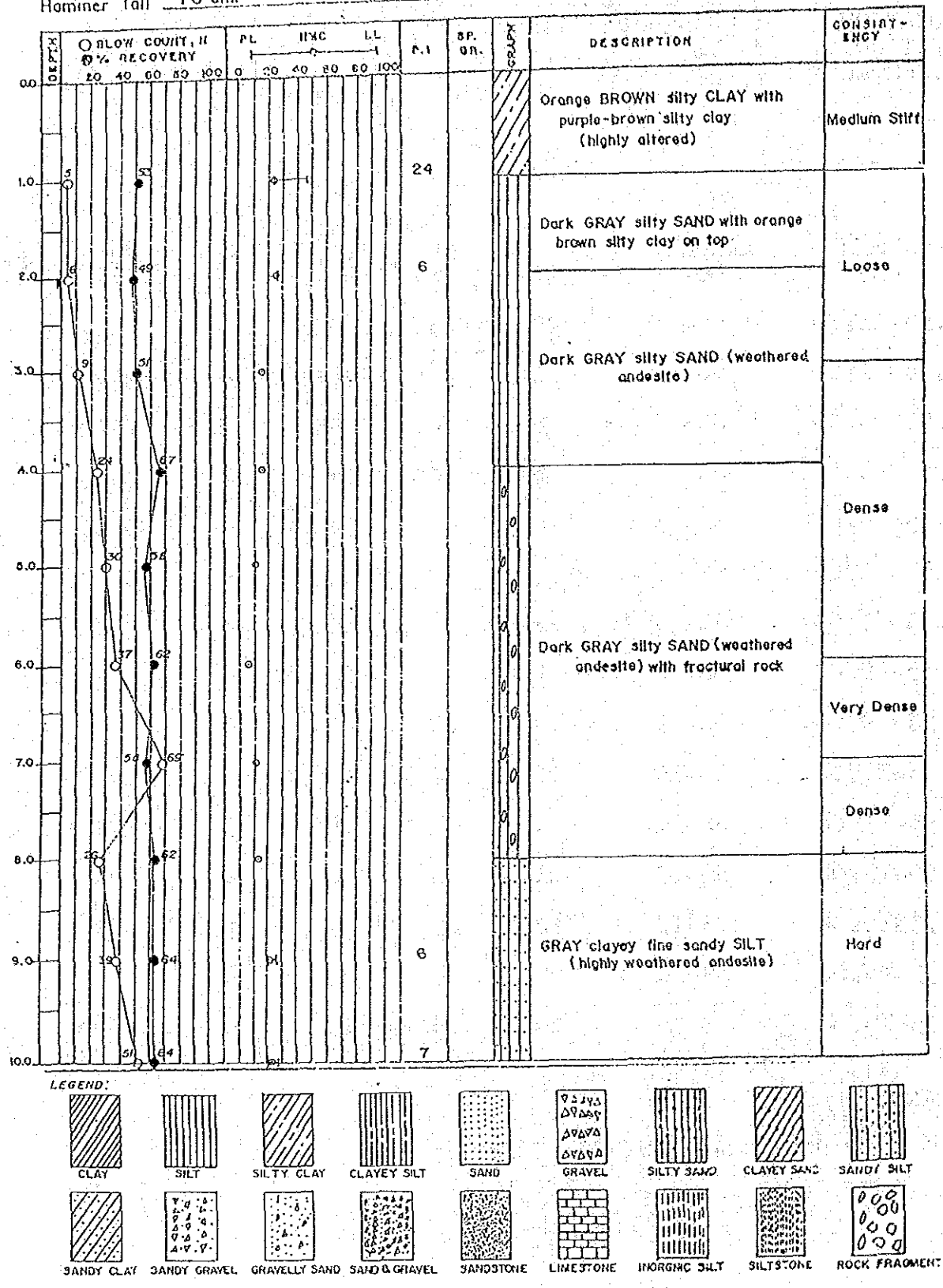
Date started: 09 Feb. 91

Date completed: 11 Feb. 91

Water elevation: 7.00 m.

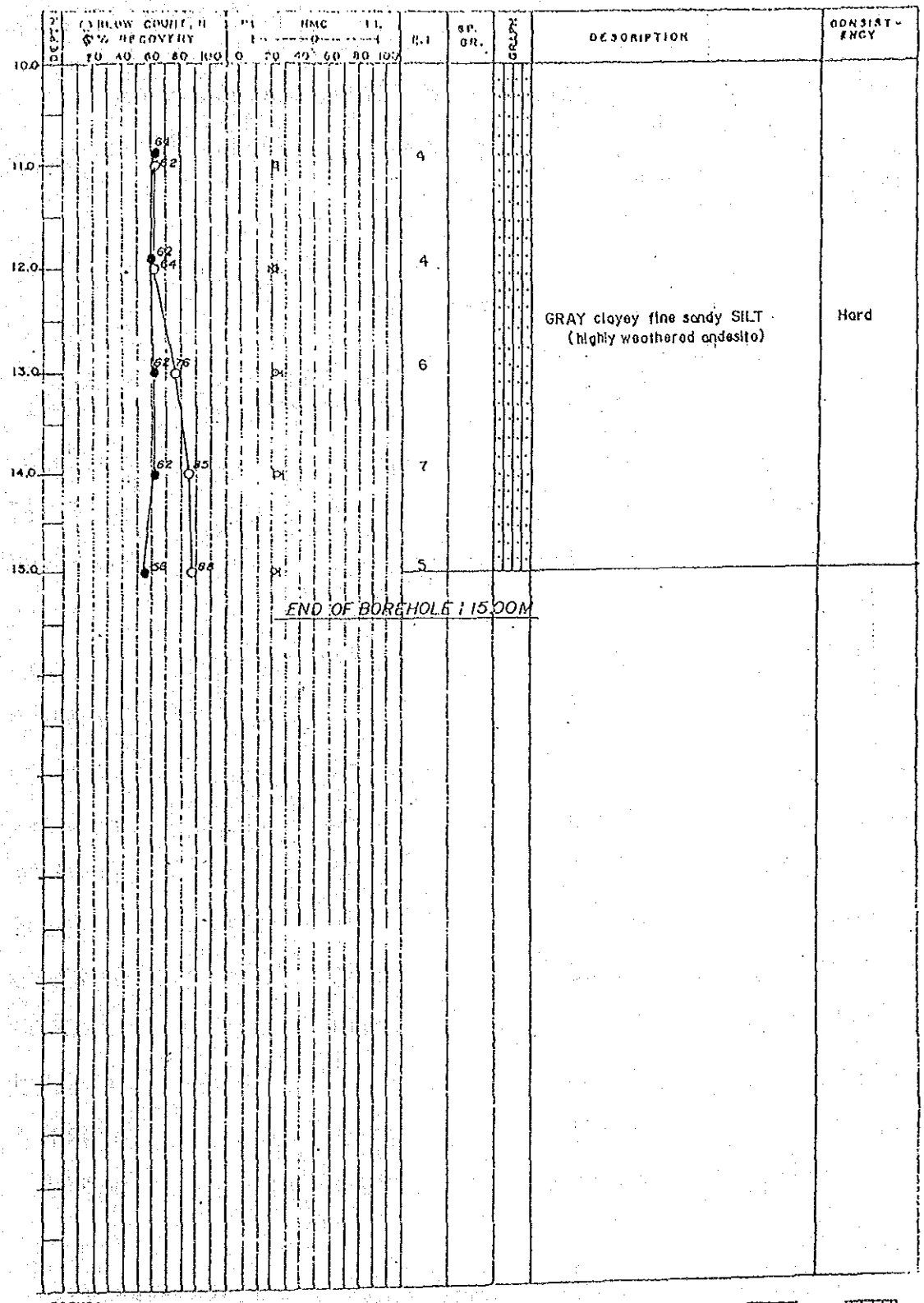
Collar elevation:

Hammer weight: 63.50 kg.



FINAL BORING LOG

Project Feasibility Study for the Restoration of Rural Road Hole designation Spot 11 BH-2



PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Benguet - Itogon Road
SPOT NO. : 11
BOREHOLE NO. : 2

FIELD TEST RESULTS

DEPTH (M)	SAMPLE NO.	N - VALUE (30 cm)	RECOVERY (d/r)
0.55- 1.00	SS--1	5	24/45
1.55- 2.00	SS- 2	6	22/45
2.55- 3.00	SS- 3	9	23/45
3.55- 4.00	SS- 4	24	30/45
4.55- 5.00	SS- 5	30	26/45
5.55- 6.00	SS- 6	37	28/45
6.55- 7.00	SS- 7	69	26/45
7.55- 8.00	SS- 8	26	28/45
8.55- 9.00	SS- 9	39	29/45
9.55-10.00	SS-10	61	29/45
10.55-11.00	SS-11	62	29/45
11.55-12.00	SS-12	49	27/45
12.55-13.00	SS-13	76	28/45
13.55-14.00	SS-14	85	28/45
14.55-15.00	SS-15	88	25/45

PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Benguet - Itogon Road
SPOT NO. : 11
BOREHOLE NO. : 2

LABORATORY TEST RESULTS

DEPTH (M)	SAMPLE NO.	NMC (%)	LL (%)	PL (%)	PI	USC	REMARK
0.55- 1.00	SS- 1	23	47	23	24	CL	
1.55- 2.00	SS- 2	25	26	20	6	SM	*
2.55- 3.00	SS- 3	,16	-	NP	-	SW-SM	
3.55- 4.00	SS- 4	15	-	NP	-	SW-SM	*
4.55- 5.00	SS- 5	10	-	NP	-	SW-SM	
5.55- 6.00	SS- 6	6	-	NP	-	GW-GM	*
6.55- 7.00	SS- 7	11	-	NP	-	GW-GM	
7.55- 8.00	SS- 8	13	-	NP	-	GW-GM	*
8.55- 9.00	SS- 9	22	27	21	6	SM	
9.55-10.00	SS-10	23	28	21	7	SM	*
10.55-11.00	SS-11	22	24	20	4	SM	
11.55-12.00	SS-12	20	23	19	4	SM	*
12.55-13.00	SS-13	21	27	21	6	SM	
13.55-14.00	SS-14	23	28	21	7	SM	*
14.55-15.00	SS-15	21	25	20	5	SM	

LEGEND:
* HAVE GRAIN SIZE DISTRIBUTION GRAPH

FINAL BORING LOG

Project Feasibility Study on the Restoration of Rural Roads

Location SPOT # 20 Benguet - Ambuloo Road

Drilling method Wash Boring

Sampler used 2" O.D Split Spoon

Hammer fall 76 cm

Hole designation BH-1

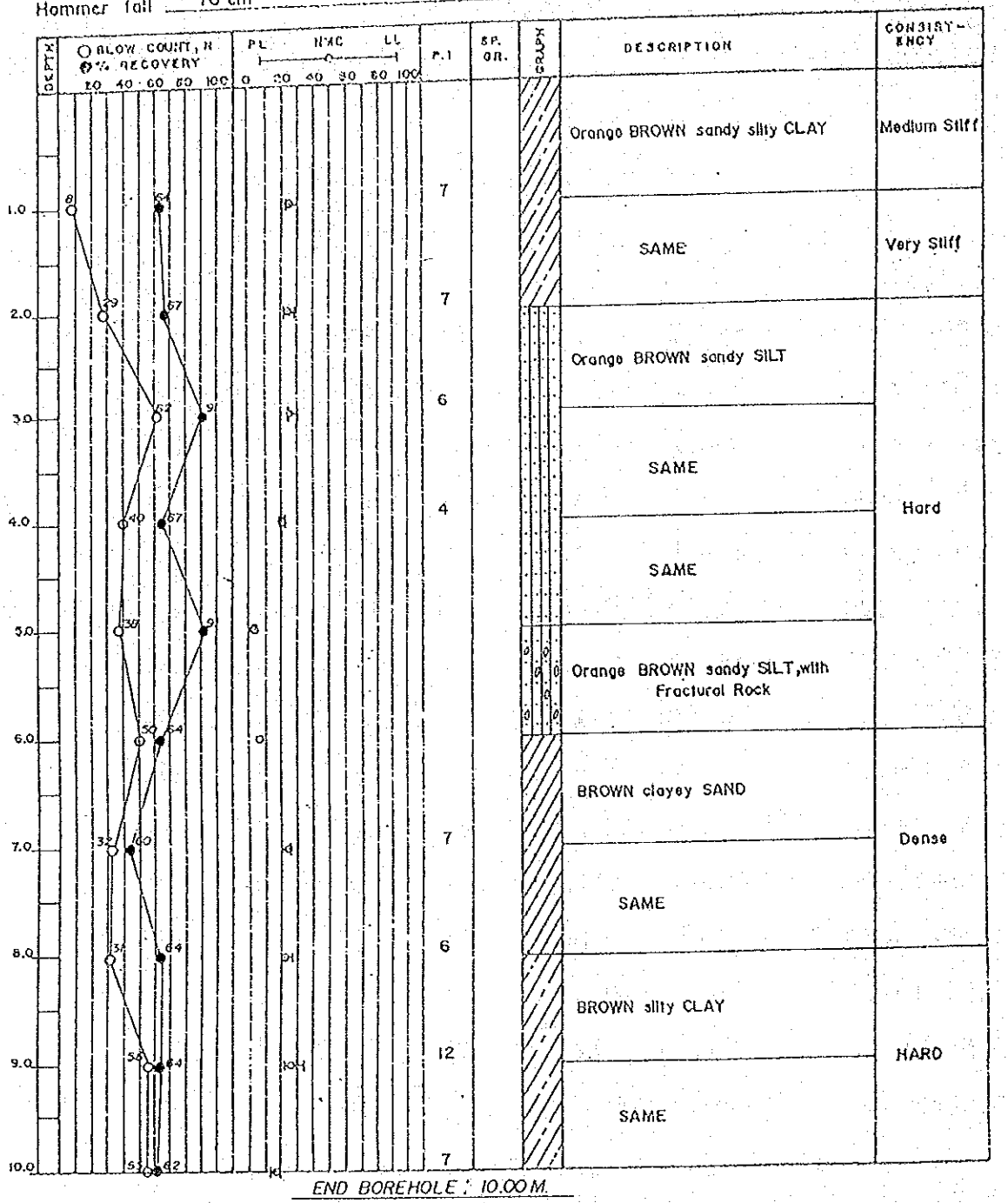
Date started February 15, 1991

Date completed February 17, 1991

Water elevation 7.50m

Collar elevation

Hammer weight 63.50 kg



LEGEND:

CLAY, SILT, SILTY CLAY, CLAYEY SILT, SAND, GRAVEL, SILTY SAND, CLAYEY SAND, SANDY SILT

SANDY CLAY, SANDY GRAVEL, GRAVELLY SAND, SAND & GRAVEL, SANDSTONE, LIMESTONE, INORGNC SILT, SILTSTONE, ROCK FRAGMENT

PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Benguet - Ambuklao Road
SPOT NO. : 20
BOREHOLE NO. : 1

FIELD TEST RESULTS

DEPTH (M)	SAMPLE NO.	N - VALUE (30 cm)	RECOVERY (d/r)
0.55- 1.00	SS- 1	8	29/45
1.55- 2.00	SS- 2	29	30/45
2.55- 3.00	SS- 3	62	41/45
3.55- 4.00	SS- 4	40	30/45
4.55- 5.00	SS- 5	38	41/45
5.55- 6.00	SS- 6	50	29/45
6.55- 7.00	SS- 7	32	27/45
7.55- 8.00	SS- 8	31	29/45
8.55- 9.00	SS- 9	56	29/45
9.55-10.00	SS-10	55	28/45

PROJECT : Feasibility Study for the Restoration of Rural Road
LOCATION : Benguet - Ambuklao Road
SPOT NO. : 20
BOREHOLE NO. : 1

LABORATORY TEST REPORT

DEPTH (M)	SAMPLE NO.	NMC (%)	LL (%)	PL (%)	PI (%)	USC	REMARK
0.55- 1.00	SS- 1	24	30	23	7	CL-ML	
1.55- 2.00	SS- 2	24	29	22	7	CL-ML	*
2.55- 3.00	SS- 3	26	31	25	6	SM	
3.55- 4.00	SS- 4	20	23	19	4	SM	*
4.55- 5.00	SS- 5	3	-	NP	-	SM	
5.55- 6.00	SS- 6	7	-	NP	-	SM	*
6.55- 7.00	SS- 7	26	27	20	7	SC	
7.55- 8.00	SS-8	22	26	19	7	SC	*
8.55- 9.00	SS- 9	27	34	22	12	CL	*
9.55-10.00	SS-10	28	30	24	6	SM-SC	*

LEGEND:
* GRAIN SIZE DISTRIBUTION

FINAL BORING LOG

Project Feasibility Study on the Restoration of Rural Roads

Location SPOT #50 Baybay - Mahaplag Road

Drilling method Wash Boring & Coring

Sampler used 2"O.D Split Spoon & Core Barrel (BXL)

Hammer fall 76 cm

Hole designation BH-1

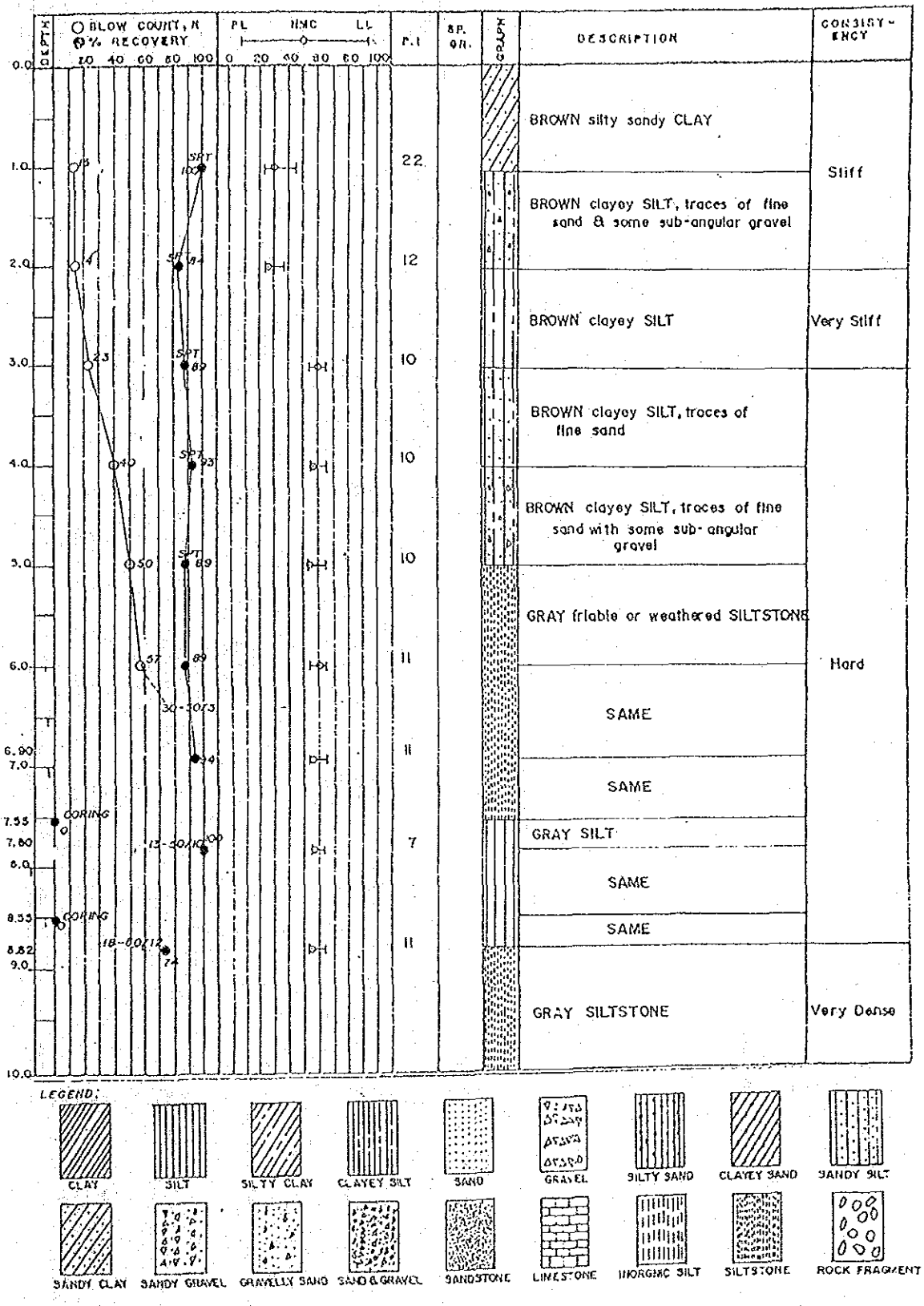
Date started February 13, 1991

Date completed February 15, 1991

Water elevation 8.82 m

Collar elevation

Hammer weight 63.50 kg



FINAL BORING LOG

Project Feasibility Study on the Restoration of Rural Roads Hole designation SPOT No. 60 BH-1