

No. 2

REPUBLIC OF THE PHILIPPINES MINISTRY OF PUBLIC WORKS & HIGHWAYS

THE FEASIBILITY STUDY OF PHILIPPINE ROAD DISASTER PREVENTION PROJECT STAGE II

FINAL REPORT

APPENDIX

(VOLUME III)

JULY, 1985

JAPAN INTERNATIONAL COOPERATION AGENCY





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国際協力事業団	
 	

LOCATION MAP

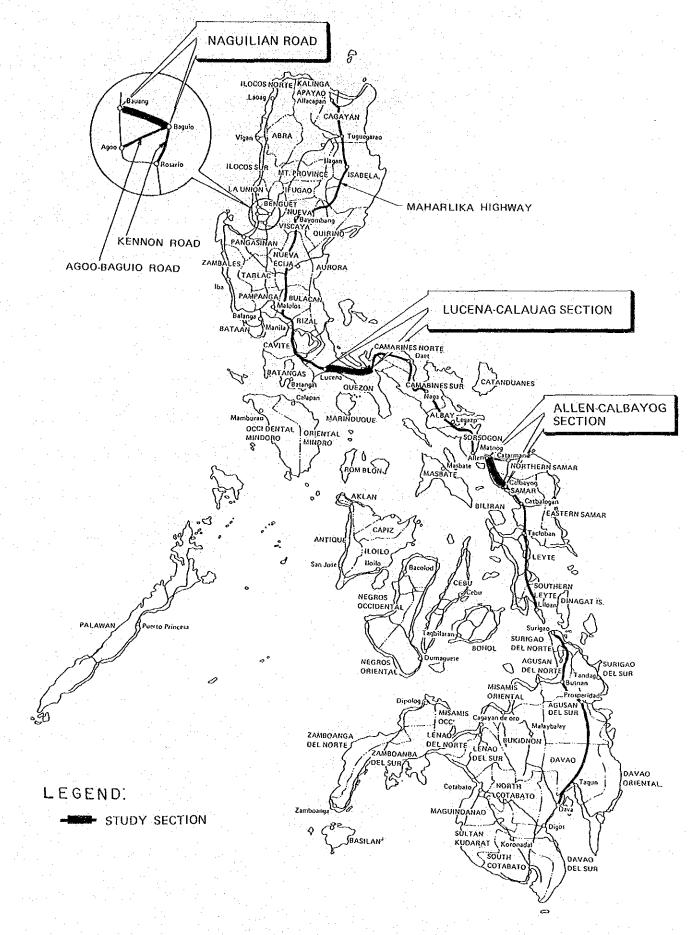


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APPENDIX 3.1-1 ORIGIN AND DESTINATION SURVEY FORMS

APPENDIX 3.1-1 (1) BUS/JEEPNEY PASSENGER OD SURVEY FIELD SHEET

PHILIPPINE ROAD DISASTER PREVENTION PROJECT

		ER OD SURVEY FIELD SHEET	
STA. NO	1 TO/FROM	TRIP PURPOSE WORK 6, SOCIAL ZRECREATION I. DAILY	
LOCATI	DH Km.: 1 TO/FROM 2. TO/FROM 3. AT. WORK/ HON: 4. SHOPING JEWER: 5. MEDICAL/	SCHOOL 7 VISIT RELATIVES 2.1.6 WEEK	
DIRECT	ION: 4. SHOPPING	BUSINESS 6. TUDRISM 9. OTHERS 4. I In 6 MONTH	
INTERV	IEWER : 5. MEDICAL /	DENTAL	_
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APPENDIX 3.1-1 (2) OD INTERVIEW FIELD SHEET

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PHILIPPINE ROAD DISASTER PREVENTION PROJECT OD INTERVIEW FIELD SHEET, 1984

STA. NO	_ DATE	INTERVIEWER	
LOCATION Km.	NAME OF RO	AD	·
STATION CODE	2 HOUR : -		1 [3 []
3	TO:		5
4 VEHICLE TYPE :	······		
1. CAR 2. JEEP 3. TAXI 4. PICK UP, VAN	5 JEEPNEY 6. PU BUS (MINI) < 30 teats 7. PU BUS (BIG) ≥ 30 teats 8. TOURIST BUS	h{	7
5 ORIGIN :			
	MUNICIPALITY	PROVINCE	9
6 DESTINATION :			
	MUNICIPALITY	PROVINCE	13
7 TRIP PURPOSE :	7 VISIT RELATIVES	B TRIP FREQUENCY :	17
3. AT WORK/BUSINESS 4. SHOPPING 5. MEDICAL/DENTAL 6. SOCIAL/RECREATION	9 OTHERS	3. I a MONTH 4. I In 6 MONTH 5. I a YEAR	18 <u>–</u>
9 NO. OF PASSENGERS (INCLUDING DRIVER (S) & CONDUCTOR)		IO SEAT CAPACITY ! (BUS, JEEPNEY ONLY)	19 []]
11 COMMODITY TYPE:			21
	NAME	τικυ Υτιτκαυο	
TYPE - 1			23
TYPE - 2		·	25
TYPE 3			27
12 COMMODITY WEIGHT :		13 TOTAL COMMODITY WEIGHT :	29 []]]]]
TYPE I	Kg		34
	Kg.		39
14 GROSS VEHICLE WEIGHT	¹⁵ NET VEHICLE WEIGHT:	¹⁶ NET LOAD CAPACITY:	49
к		Kg	54

- 3 ---

APPENDIX 3.1-2 NTPP ZONING CODES AND INTEGRATION OF TRAFFIC ZONES BY SURVEY STATION

APPENDIX 3.1-2 (1) PROVINCIAL CODES OF NATIONAL TRANSPORTATION PLANNING PROJECT (HEPP)

Region	Provinces	Code	Region	Provinces	Code
······································		()]		Capiz	40
1	Abra	01			41
	Benguet	02		Iloilo	42
	llocos Norte	03		Guimaras (Sub-Province)	
	Hocos Sur	04		Negros Occidental	43
- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	La Union	05	:		
	Mt. Province	06	VII	Bohol	44
· ·	Pangasinan	07		Cebu	45
:. · ·			÷	Negros Oriental	46
11	Batanes	08		Siquijor	47
	Cagayan	09			
1997 - 1997 -	Ifugao	10	VIII	leyte	48
	Isabela	11	••••	Southern Leyte	49
	Kalinga-Apayao	12		Eastern Samar	50
		13		Northern Samar	51
	Nueva Vizcaya	14		Western Samar	52
4	Quirino	14		Biliran (Sub-Province)	53
***		1E		BITTAIL (Sub-riovince)	
111	Bataan	15	· .	C. b. Ongion	
	Bulacan	16		Sub-Region	
	Nueva Ecija	17	* * *		r 4 -
	Pampanga	18	IX-A	Basilan	54
	Tarlac	19		Sulu	55
	Zambales	20		Tawi-Tawi	56
TV	Matumalitan Manila	76	IX-B	Zamboanga del Norte	57
IV	Metropolitan Manila	/0	17-0		58
				Zamboanga del Sur	20
IV-A	Aurora (Sub-Province)	21			60
	Batangas	22	Х	Agusan del Norte	59
	Cavite	23		Agus an del Sur	60
	Laguna	24		Bukidnon	61
	Marinduque	25	· · ·	Camiguin	62
	Mindoro Occidental	. 26		Misamis Occidental	63
· .	Mindoro Oriental	27		Misamis Oriental	64
	Palawan	28	1. S. F. 1. S. 1.	Surigao del Norte	-65
	Quezon	29			1.1
	Rizal 1/	30	XI	Davan del Norte	66
	Romblon	31		Davan del Sur	67
				Davan Oriental	68
V	Albay	32		South Cotabato	69
7	Camarines Norte	33		Surigao del Sur	70
	Camarines Sur	34		Sulliguo del Sul	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		35	XII	Lanao del Norte	71
	Catanduanes	35	A11	Lanao del Sur	72
	Masbate	30)		
	Sorsogon	37		Magu indanao	73
	1	20		North Cotabato	74
VI	Aklan	38		Sultan Kudarat	75 -
	Antique	39	1		

 $\frac{1}{Less}$ Metropolitan Manila

- 6 ---

PROVINCE	MUNICIPALITY	CODE	PROVINCE	MUNICIPALITY	ĊOD
PLOTON 1				Pidding	17
REGION 1		· · · ·		Pinili:	18
ADDA		01		San Nicolas	19
<u>ABRA</u>		- 01		Sarrat	20
	Bangued	00		Solsona	21
	Boliney	01		Vintar	22
	Bucay	02		- Incar	ъ. њ.
al at a second second	Bucloc	03	ILOCOS SUR		- 04
	Daguioman .	04	120000_000		<u>* · ·</u>
	Danglas	05		Vigan	· 00
al de la companya de References de la companya de la comp	Dolores	06		Alilem	01
	La Paz	07		8a na yo yo	02
	Lacub	08		Bantay	03
	Langangilang	09	· · · · · · · · · · · · · · · · · · ·	Burgos	04
	Lagayan	10		Cabugao	05
	Langiden	11		Candon	06
	Licuan	12		Caoayan	07
	Luba	13		Cervantes	80
	Malibcong	14		Galimuyod	09
1. State 1.	Manabo	15		Gregorio del Pilar	
	Peñarrubia	16		(Concepcion)	10
	Pidigan	17		Lidlidda	11
	Pilar	18	·	Magsingal	12
· · ·	Sal-Lapadan	19	·	Nagbukal	13
Part de la companya d	San Isidro	20		Narvacan	14
e de la companya de l	San Juan	21		Quirino (Angaki)	15
	<u>San Quintin</u>	22		Salcedo (Baugen)	16
	Tayun	23		San Emilio	. 17
	Tineg	24		San Esteban	18
	Tubo	25		San Ildefonso	19
	Villaviciosa	26		San Juan (Lapog)	20
OCNOLICE.		:00		San Vicente	21
BENGUET		- <u>02</u>		Santa	22
	La Trinidad	00		Santa Catalina	23
	Atok	00 01		Santa Cruz	24
	Baguio City	02		Santa Lucia	25
		03		Santa Maria	26
and the second second	Bauan (Bakun) Bokod	03		Santiago Santo Domingo	27 28
	Buguias	05		Sigay	28
	Itogon	06		Sinait	30
- 	Kabayan	07	· · · ·	Sugpon	31
	Kapangan	08		Suyo	32
	Kibungan	09		Tagudin	33
	Mankayan	10		Tagaoth	33
	Sablan	11	LA UNION		- 05
	Tuba	12			- <u>05</u>
	Tublay	13		San Fernando	00
		15		Agoo	01
ILOCOS NORTE		- 03		Åringay	02
LCOODS NOITE		0.5		Bacnotan	03
	Laoag City	00	*	Bagulin	04
	Adams	. 01		Balaoan	04
. · · · ·	Bacarra	02		Bangar	05
	Badoc	03	· · · ·	Bauang	07
	Bangui	04		Burgos	08
	Batac	05		Caba	09
	Burgos	06		Luna	10
	Carasi	07		Naguilian	11
	Currimao	08		Pugo	12
	Dingras	09		Rosario (Damortiz)	12
	Dumalneg	10		San Gabriel	. 13 . <u>1</u> 4
1	Espiritu (Banana)	11		San Juan	14
· · · · · · · · ·	Marcos	12		Santo Tomas	15
	Nueva Era	13		Santol Santol	10
	Pagudpud	14		Sudipen	18
	Paoay	. 15		Tubao	10
		. 12			

APPENDIX 3.1-2 (2) MUNICIPALITY CODES OF NTPP

-7-

PROVINCE	MUNICIPALITY	CODE	PROVINCE	MUNICIPALITY	CODE
MT. PROVINCE	an an an an an an Arrana. An an	- 06	CAGAYAN	and a standard and a Andrea and an	09
•	Bontoc	00		Tuguegarao	00
	Barlig	01		Abulug	01
	Bauko	02	ta produktion de la constante d	Alcala Allacapan	03
	Besao Natonin	03 04		Amulung	03
	Paracelis (Paraelas)	05		Aparri	05
	Sabangan	06 07	March 1997 And	Baggao Ballesteros	06 07
	Sadanga Sagada	08		Buguay	08
· .	Tadian	09		Calayan	. 09
PANGASINAN		- 07		Camataningan Claveria	10 11
I MOID INVI				Enrile	12
	Lingayen	00		Cattaran	13 14
· ·	Agno Aguilar	01 02		Canzaga Iguig	14 15
	Alaminos	03		Lal-lo	16
	Alcala Anda	04 05		Lasan Panpiona	17 18
	Angan	06		Penablanca	19
•	Balungao	07		Piat Rizal	20 21
	Bani Dasista	08		Sanchez-Mira	22
	Bautista	10	· · · ·	Santa Ana	23
· · · · · · · · · · · · · · · · · · ·	Bayambang Binalonan	11		Santa Praxédes (Langangan)	24
· ·	Binnaley	13		Santa Teresita	25
	Bolinao	14		Sto. Nino (Faire)	26
	Bugallon Burgos	15 16		Solana Tuao	27 28
	Calasiao	17			
	Dagupan City Dasol	18 19	IFUGAO		<u>10</u>
	Infanta	20		Lagawe (Burnay)	00
· .	Labrador	21	· · · · ·	Banaue	01
1. State 1.	Mabini Malasigui	22 23		Hungduan Kiangan	02 03
	Manaoag	24		Lanut	83
and the second	Mangaldan Mangatarem	25 26		Lanut Tiayaoyao Potia	05
	Mapandan	27	ISABELA		<u>11</u>
	Natividad	28			
	Pozorrubio Rosales	29 30		Ilagan Alicia	00 01
	San Carlos City	31		Aguinaldo	02
at ser a star se trans-	San Fabian San Jacinto	32 33	and the second sec	Angadanan Aurora	03 04
21.00	San Manuel	34	•	Benito - Soliven	04
	San Nicolas	35		Burgos	06
and the second	San Quintin Santa Barbara	36 37		Cabagan Cabatuan	07 08
	Santa Maria	38		Cauayan	09
•	Santo Tomas	39 40		Cordon	10
	Sison Sual	- 41		Divilican Echague	11 12
	Tayug	42		Gana	13
	Uningan Urbiztondo	43 44		Jones Luna (Anatet)	14 15
and the second second	Urdaneta	45		Macanacon	16
	Villa	46		Magsaysay	17
REGION 11				Mallig Naguilian	18 19
			· .	Palanan	20
BATANES		- 08		Quezon	21
	Basco	00		Quirino Reina Mercedes	22 23
	Itbayat	01		lloxas	24
	Iyana Mahatao	02 03		San Agustin San Guillerno	25 26
	Sabtang	04		San Isidro	27
and the second	Uyugan	05		San Manuel (Gallang) 28
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	San Mateo San Pablo	30 31		Angat Balagtas (Bigaa)	01 02
	Santa Maria	32		Baliuag	03 04
t kan kan	Santiago Santo Tomas	33 34		Bocaue Bulacan	05
	Tumanini	35 36 37		Bustos Calumpit	06 07
	Dinapigui Ramon			Guiguinto	08 09
KALINGA-APAYAO		- 12		Hagonoy Marilao	10
	Tabuk	00		Meycauayan	11 12
	Balbalan Calanasan (Bayag)	01 02		Norzagaray Obando	13
	Conner	03		Pandi Paombong	14 15
	Elora Kabugao	04 05	1	Plaridel	16 17
	Lubuagan Luna	06 07		Pulilan San Ildefonso	18
	Pasil	08	· · ·	San Jose del Monte San Miguel	19 20
a and a second a second as	Pinukpuk Pudtol	09 10	1	San Rafael	21
	Quirino Rizal (Liwan)	11 12		Santa Maria Valenzuela	22 23
	Santa Marcela	13	NUEVA ECIJA		<u>17</u>
	Tanudan Tinglayan	14 15	MOLVA LUIDA		
NUEVA VIZCAYA		e de la companya de l		Palayan City Aliaga	00 01
HOLYA TILCAIN		<u>13</u>		Bongabon	02 03
	Bayonbong Anibagu i o	00 01		Cabanatuan City Cabiao	04
	Aritao	02 03		Carranglan Cuyapo	05 06
Maria da Carlo de Car Carlo de Carlo de Carl	Bagabag Bambang	.04		Gabaldon (Bitulok &	07
	Diadi Dupax del Norte	05 06		Sabani) Gapan	08
	Dupax del Sur	07		Gen. Mamerto Natividad Gen. Tinio (Payapa)	09 10
	Kasibu Kayaba	08		Guimba	11
	Quezon Saguday	10		Jaen Laur	11 12 13
	Santa Fe	12		Licab Llanera	14 15
	Solano Villa Verde (Ibang)	13 14	4	Lupao	16
QUIRINO		14		Muñoz Nampicuan	17 18
<u></u>	R_15.0			Pantabangan Peñaranda	19 20
	Aglipay Cabarroguis	01 02		Quezon	21
	Diffun Maddela	03 04	· · · ·	Rizal San Antonio	22 23
	Saguday	05		San Isidro San Jose City	24 25
REGION 111		· · ·		San Leonardo	26
BATAAN		15		Santa Rosa Santo Domingo	27. 28.
DATIVI				Talavera Talugtug	29 30
e te j	Balanga Abucay	00 01		Zaragosa	31
	Bagac Dinalupihan	02 03	PAMPANGA		- <u>18</u>
	Hermosa	04		San Fernando	00
	Limay Mariveles	05 06		Angeles City	01
	Morong Orani	07 08		Apalit Arayat	02 03
· · ·	Orion	09		Bacolor Candaba	04 05
	Pilar Samal	10 11	the second second	Florida Blanca	06
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<u>PAMPANGA</u>		CUDE	PROVINCE	MUNICIPALITY	CODE
DAMBANCA				Con Lion dol Monto	14
TALL RION		- 18		San Juan del Monte Taguig	14 15
· ·	Guagua	07 08		Valenzuela (Polo)	16
	Lubao Mabalacat	09	REGION IV-A		Maria Maria Maria
	Macabebe Magalang	10 11	AURORA	در بر مربع مربع مربع م مربع مربع مربع مار مربع م	21
	Masantol	12		Baler	01
	Mexico Minalin	13 14		Casiguran	02
	Porac San Luis	15 16		Dilasag Dinalongan	03 04
	San Simon	-17		Dingalan Dipaculao	05 06
	Santa Ana Santa Rita	18 19		Maria Aurora	07
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Santo Tomas Sexmoan	20 21		San Luis	80
	SEXIIDUII		BATANGAS		22
TARLAC	n an All a sa sa sa sa sa sa sa sa sa sa Na sa	- <u>19</u>		Batangas City	00
	Tarlac Anao	00		Agoncillo Alitagtag	01 02
	Bamban	02		Balayan	03
	Camiling Capas	03 04	an a	Balete Bauan	04 05
·	Concepcion	05 06		Calaca Calatagan	06 07
	Gerona La Paz	07		Cuenca	08
	Mayantoc Moncada	08 09		Ibaan Laure)	09 10
	Paniqui	10 11		Lemery Lian	11 12
	Pura Ranos	12		Lipa City	13
	San Clemente San Manuel	13 14		Lobo Mabini	14 15
	Santa Ignacia	15 16	· · ·	Malvar Mataas na Kahoy	16 17
	Victoria			Nasuqbu	18
ZAMBALES		- 20	· · ·	Padre Garcia Rosario	19 20
	Iba Botolan	00 01	•	San Jose San Juan	21 22
	Cabangan Candelaria	- 02		San Luis	23
	Candelaria Castillejos	03 04	•	San Nicolas San Pascual	24 25
	Masinloc Dlongapo City	05 06		Santa Teresita Santo Tomas	26 27
	Palavig	07	• • •	Taal	28
	San Antonio San Felipe	08 09		Talisay Tanauan	29 30
	San Harcelino San Narciso	10 11		Taysan Tingloy	31 32
	Santa Cruz	12		Tuy.	33
	Subic	13	CAVITE		23
REGION IV			······	Trece Martires City	00
METROPOLITAN MANILA -	· · · · · · · · · · · · · · · · · · ·	- 76		Alfonso	.01
· · · · · · · · · · · · · · · · · · ·	5			Amadeo Bacoor	02 03
	Manila Caloocan	00 01	· .	Carmona Cavite City	04 05
	Pasay Quezon	02 03		Dasmarinas	06
	Las Pinas	04		Gen. Emilio Aguinaldo Gen. Trias	07 08
and the second	Makati Malabon	05 06		Inus Indang	09
	Mandaluyong Marikina	07. 08		Kawit	10
	Muntinglupa	09 10		Magallanes Karayondon	12 13
	Navotas Parañaque	- 11		Mendez-Nunez Naic	14 15
	Pasig Pateros	12 13		Noveleta	16
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		n na standa An standar			
			· · · ·		
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	Sara	43		Guindulman Inabanga	23 24
	Tigbauan Tubungan	44 45		Jagna	25
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	- Buenavista	01		Loboc Loon	29 30
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	Bacolod City	00		Pitogo Sagbayan	35 36
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	Binalbagan Cadiz City	02 03		San Miguel Sevilla	38 39
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· · ·	Cauayan Enrique Magalona	07		Trinidad	43
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	Tabogon	- 47		Hindang	20 21
	Tabuelan Talisay	48		Inopacan Isabel	22
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	Tuburan	51		Javier (Bugho)	24
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	Bacong	03		Maripipi	32
	Bais City	04		Matag-ob	33
	Basay	05		Matalom	34
и. 	Bayawan (Tolong) Bindou (Doubloo)	06		Mayorga Merida	35 36
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Pilar 17 Placer 18 San Benito 19 San Francisco 20 (Anao-aon) San Isidro 21 Sta. Monica (Sapao) 22 Sison 23 Socorro 24 Tagana-an 25 Tubajon 26 Tubod 27 REGION XI DAVAO DEL MORTE 66 Tagun 00			
Placer 18 San Benito 19 San Francisco 20 (Anao-aon) San Isidro 21 Sta. Monica (Sapao) 22 Sison 23 Socorro 24 Tagana-an 25 Tubajon 26 Tubad 27 REGION XI DAVAO DEL MORTE 66 Tagana 00	TH COTABATO		6
San Francisco 20 (Anao-aon) 21 San Isidro 21 Sta. Monica (Sapao) 22 Sison 23 Socorro 24 Tagana-an 25 Tubajon 26 Tubod 27 REGION_XI 20 DAVAO DEL NORTE		Koronadal (Marbel)	0
(Anao-aon) San Isidro 21 Sta. Monica (Sapao) 22 Sison 23 Socorro 24 Tagana-an 25 Tubajon 26 Tubad 27 REGION XI DAVAO DEL NORTE 66 Tagan 00		Banga Can Canton City	0
San Isidro21Sta. Monica (Sapao)22Sison23Socorro24Tagana-an25Tubajon26Tubod27REGION XI27DAVAO DEL NORTE 66Tagunn00		Gen, Santos City (Rajah Buayan)	0
Sison 23 Socorro 24 Tagana-an 25 Tubajon 26 Tubod 27 REGION XI DAVAO DEL NORTE 66 Tagun 00		Glan	0
Socorro 24 Tagana-an 25 Tubajon 26 Tubod 27 REGION XI DAVAO DEL NORTE 66 Tagun 00		Kiamba Maasim	0
Tubajon 26 Tubod 27 REGION XI DAVAO DEL NORTE 66 Tagum 00		Maitum	0
Tubod 27 REGION XI DAVAO DEL NORTE 66 Tagum 00	•	Malapatan	0
REGION XI DAVAO DEL NORTE 66 Taguna 00		Malungon Norala	. 0
DAVAO DEL NORTE 66 Tagum 00		Polomolok	1
Тадыш 00		Surallah Tampacan	- 1 1
		Tantangan	1
		Tupi T'buli	1
Asuncion (Saug) 01	1	Alabel	ì
Babak 02			
Carmen 03 <u>SURI</u> Compostela 04	IGAO DEL SUR		7
Kapalong 05		Tandag	0
Kaputian 06 Mabini (Doña Alicia) 07		Barobo Bayabas	0 0
Maco (Amacan) 08		Bislig (Mangayoy)	0
Mawab ()9 Monka yo 10		Cagwait	. 0
Monkayo 10 Montevista 11		Cantilan Carrascal	0
Nabunturan 12		Cortes	0
New Bataan 13 New Corella 14		Hinatuan Lanuza	0
Panaho 15		Lianga	1
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			ана на селото на село На селото на
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		PAIN	PROVINCE	MUNICIPALITY	CODI
PROVINCE	MUNICIPALITY	CODE			
SURIGAO DEL SUR	n an tha an	70	MAGUINDANAO		73
	Lingig	11		Maganoy	00
	Madrid	12	· · ·	Ampatuan	.01
	Marihatag San Agustin (Oteiza)	13 14		Buldon Buluan	02 03
in lan oo arren ooraanko amerika	San Miguel	15		Datu Paglas	04
	Tagbina	16 17		Datu Piang (Dulawan)	05
	Tago Cariien	18		Dinaig (Dalican)	06
				Pagalungan	07
REGION XII	the second s			Parang (Landaran) Sultan Kudarat (Nuling)	08 09
LANAO DEL NORTE	المالة فرمرية حاجات فأحارين	71		Sultanñasa Barongis	10
	Nigan City	- 00	а. С. С. С	(Lambayog) Tumbao	11
	Bacolod	01		Upi	12
	Balo-1	02		Cotabato	13
	Baroy Kapatagan	03 04	NORTHERN COTABATO		74
	Karomatan	05			
	Kauswagan	06 07		Kidapawan Alamada	00 01
:	Kolambugan Lala	08		Carmen	02
	Linamon	. 09.		Kabacan	03
	Magsaysay Maigo	10		l ibungan Magpet	04 05
	Matungao	12	·	Makilala	06
	Nuna i Nunungan	13		Matalam Midsayao	07 08
	Pantao-Ragat	15	· · · · · · · · · · · · · · · · · · ·	Milang-Milang	09
	Salvador	16		Pigkawayan	10
	Sapad Tubod	17 18		Pikit Pres. Roxas	11 12
	Tagoloan	19		Fulunan	13
internet i de la composición de la comp	Tangcal	20	SULTAN KUDARAT		- 75
LANAO DEL SUR	n an	15		Isulan	00
	Marawi City	00		Bagumbayan	01
· · ·	(Dansalan) Bacolod Grande	01		Columbio Esperanza	02 03
	Balabagan	02		Kalawansig	04
	Balindong (Watu)	03 04		Lebak	05
. '	Bayang Binidayan	05	·	Lutayan Mariamo Marcos	06 07
	Bubong	06		Palimbang	- 08
	Buting Ganassi	07		Pres. Quirino Tacurong	09 10
	Kapai	09		ractir ong	10
	Lumba-a-Bayabao (Maguing)	:10	· .		
	Dianaton	11			
· · · · ·	Lumbatan	12			
•	Madalum Madamba	13 14			
	Malabang	15			
	Maratao Masiu	16 17			
	Molundo	18			
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Pagayawan	19			
: · · · · ·	Piagapo Poon-aBayabao	20 21			
	Pualas	22			
	Ramain Saguiaran	23 24			
		25			
	Tanparan	{. J			
	Taraka	26			
		26 27 28	· · ·		

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• • • • • • • • • • •		Province			Municipality Code
Integrated Zone No.	Region	Name	Co	de	run iciparity code
1	I	A11	01 3	XX	A11
			07	XX	
2	II	A11	08	xx	A11
			14	xx	
3	III	A11	15	XX	A11
	• • •		20	хх	
4	IV	Metropolitan Manila	76	xx	A11
5	IV-A	Cavite	23		A11
		Laguna	24 30		A11 A11
6		Rizal Batangas	.22		A11
7		Aurora	21		A1]
		Quezon	29		04, 09, 11-14, 17, 20, 25, 37, 42
8		Quezon	29	XX.	23, 26, 38, 46
9		Quezon	29	хх	08, 15, 40, 44, 47
10		Quezon	29	XX	00
11		Quezon	29	XX	29
12		Quezon	29	XX	01, 28
13		Quezon	29	XX	03, 34
14		Quezon	29	XX	19
15		Quezon	29	XX	33, 48
16		Quezon	29	XX	07, 22
17		Quezon	29	XX	10, 16, 24, 27, 39, 41, 43
18		Quezon	29	XX	05, 18, 45
19		Quezon	29	XX	02, 06, 21, 30, 31, 32, 35, 36
		Marinduque	25		
		Mindoro Occidental	26		
	an a	Mindoro Oriental Palawan	27 28		
		Romblon	31		

APPENDIX 3.1-2 (3) INTEGRATION OF TRAFFIC ZONES FOR LUCENA - CALAUAG SECTION

Zone No.NameCodeHumiliparity code20VCamarines Norte33 xxAll21Camarines Sur34 xx00, 04, 07-10, 12, 13, 24, 26, 28, 29, 31, 3322Camarines Sur34 xx01-03, 05, 06, 11, 14-123Albay32 xxAll24Sorsogon37 xxAll25Masbate36 xxAll26VIIIEastern Samar50 xxAll27Leyte48 xxAll28Rest of the Philippines $VIII$ $38 xx$ 28Rest of the Philippines VII $38 xx$ VII XAll47 xx VII X All VII X All VII X All VII X All YI X All	Integrated	에는 이렇게 가지? 이 관계를 갖춘다.	Provinc	ce	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Region	Name	Code	Municipality Code
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	20	V	Camarines Norte	33 xx	A11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	21		Camarines Sur	34 xx	00, 04, 07-10, 12, 13, 18-2 24, 26, 28, 29, 31, 33
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	22		Camarines Sur	34 xx	01-03, 05, 06, 11, 14-17 23, 25, 27, 30, 32, 34-36
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	24		Sorsogon	37 xx	A11
Northern Samar51 xxAll Western Samar27Leyte48 xxAll Southern Leyte28Rest of the Philippines28Rest of the Philippines $\begin{pmatrix} VI \\ VII \\ IX \\ X \end{pmatrix}$ All41147 xxAll	25		Masbate	36 xx	A11
Southern Leyte 49 xx A11 Biliran 53 xx A11 28 Rest of the Philippines $\begin{pmatrix} VI \\ VII \\ IX \\ X \end{pmatrix}$ A11 38 xx to A11 47 xx A11 54 xx A11	26	VIII	Northern Samar	51 XX	A11
Biliran53 xxAll28Rest of the Philippines $\begin{pmatrix} VI \\ VII \\ IX \\ X \end{pmatrix}$ 38 xx to 47 xxAll47 xx54 xx	27			48 xx	
$\begin{pmatrix} VI\\ VII\\ VII\\ IX\\ X \end{pmatrix}$ All $\begin{array}{c} 38 \\ to \\ 47 \\ x \\ 54 \\ xx \end{array}$ All			Biliran		
IX A11 47 xx A11 X 54 xx	28	/ VI \	the Philippines		
$\left\langle XII \right\rangle$		IX X XI		47 xx 54 xx to	A11

-21 -

APPENDIX 3.1-2 (4) INTEGRATION OF TRAFFIC ZONES FOR ALLEN - CALBAYOG SECTION

Integrated		Province		Municipality Code
Zone No.	Region	Name	Code	
1	I	A11	01 xx	A11
	· .		07 xx	
2	ΙI	A11	08 xx	A11
			14 xx	
3	III	A11	15 xx	A11
			20 xx	
4	١V	Metropolitan'Manila	76 xx	A11
5	IV-A	Cavite	23 xx	A11 A11
		Laguna Rizal	24 xx 30 xx	
6		Aurora	21 xx	A11
		Batangas Quezon	22 xx 29 xx	A11 A11
7		Marinduque	25 xx	<u>A11</u>
		Mindoro Occidental	26 xx 27 xx	A11 A11
		Mindoro Oriental Palawan	28 xx	ATT
		Romblon	31 xx	A11
8	٧	Camarines Norte	33 xx	A11
9		Camarines Sur	34 xx	00, 04, 07-10, 12, 13, 18-22 24, 26, 28, 29, 31, 33
10		Camarines Sur	34 xx	01-03, 05, 06, 11, 14-17, 23, 25, 27, 30, 32, 34-26
11		Albay Catanduanes	32 xx 35 xx	A11 A11
12		Sorsogon	37 xx	A11
13		Masbate	36 xx	A11
14	VIII	Northern Samar	51 xx	01, 04, 16, 17, 20, 22
15		Western Samar	52 xx	03
16		Western Samar	52 xx	00, 01, 06, 08, 10, 15, 17, 1
17		Northern Samar	51 xx	02, 03, 10, 15, 18
18		Northern Samar	51 xx	00, 12

- 22 -

Integrated		Province		
Zone No.	Region	Name	Code	Municipality Code
19	VIII	Northern Samar	51 xx	05-09, 11, 13, 14, 19, 21
20		Western Samar	52 xx	07, 11, 13, 14, 21
21		Western Samar	52 xx	02, 04, 05, 09, 12, 16, 18, 20, 22
22	n na sa	Eastern Samar	50 xx	A11
23		Leyte	48 xx	00-02, 05, 06, 10, 15, 17, 18, 23-25, 28, 30, 31, 35, 41, 43, 44, 46-49
24		Leyte	48 xx	03, 04, 07-09, 11-14, 16, 19-22, 26, 27, 29, 32-34, 36-38, 40, 42, 45, 50
	· .	Biliran	53 xx	A11
25		Southern Leyte	49 xx	A11
26	VI	A11	38 xx 43 xx	A11
	VII	A11	44 xx	A11
			47 xx	AU
28	Rest o	f the Philippines	<u> </u>	
	IX X XI XII	A11	54 xx to 75 xx	A11

- 23 -

APPENDIX 3.1-2 (5) INTEGRATION OF TRAFFIC ZONES FOR NAGUILIAN ROAD

Integerated Region Zone No.			
	Name Co	de	Municipality Code
1 I Bengu	et 02	xx 02	(a) A set of the se
2 Bengu	et 02	xx 00	
3 Bengu	et 02	xx 12	
4 Bengu	et 02	xx 11	
5 Bengu	et 02	xx 06	
6 Bengu	et 02	xx 01,	03-05, 07-10, 13
7 La Un	ion 05	xx 03-	06, 10, 14, 15, 17-18
8 La Un	ion 05	xx 00	
9 La Un	ion 05	xx 07,	08, 11
10 La Un	ion 05	xx 01,	02, 09, 12, 16, 19
11 La Un	ion 05	xx 13	
12 Abra	01		A11
	s Norte 03 s Sur 04		A11 A11
	rovince 06		All
II Batan	es 08	XX	A11
Cagay	an 09		A11
Ifuga Isabe			A11 A11
	ga-Apayao 12		A11
	Vizcaya 13		A11
Quiri		XX	A11
14 III Nueva	Ecija 17	xx	A11
15 I Panga	sinan 07		06, 07, 10-12, 23-25,
	· · · · · · · · · · · · · · · · · · ·	27-	30, 32-40, 42, 43, 45, 46
16 III Bataa			A11
Bulac			A11
Pampa Tarla			A11 A11

- 24 –

ntegrated		Provi	nce					j.		
ntegrated Zone No.	Region	Name	Code	<u>}</u>	Mun	icip	alit	y Co	de	
17		Zambales	20 ×	x			411			
	Ĩ	Pangasinan	07 x	x	00-03, 26, 31	05, , 41	08, ,44	09,	13-22,	
18	IV	Metropolitan Mani	la 76 x	x			411			
19	Rest of	the Philippines						····	· · ·	
	/ IV-A									
	V V VI	A11	21 x	x	· · · ·		111			
	VII	ATT	to 75 x	x	· · ·	,	111			
	VIII IX									
	X XI			на. На	- 					
	$\langle \tilde{X} I I \rangle$									
1999-1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1 1999 -									<u></u>	 .
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APPENDIX 3.1-3 TRAFFIC SURVEY SUMMARY

-- 27 --

	Lucena - Calauag Section	Allen - Calbayog Section 1/	Naguilian Road 1/	Total
Car	156	17	174	347
Jeep	51	43	32	126
Taxi	0	0	9	9
Pick-up, Van	167	22	107	296
Jeepney	598	153	309	1,060
Public Bus (Mini)	118	3	0	121
Public Bus (Big)	44	27	61	132
Tourist Bus	3	0	0	3
Truck - 2 axle	160	60	118	338
Truck - 3 axle	45	0	79	124
Trailer	13	0	0 .	13
Total	1,355	325	889	2,569

APPENDIX 3.1-3 (1) NUMBER OF SAMPLES OF ROADSIDE VEHICLES O-D SURVEY

1/ 0-D data surveyed in the Stage I Study.

TRAFFIC COUNT SUMMARY

TABLE

STATION : LUCENA - CALAUAG

DATE : Oct. 11th & 12th, 1984 (Thursday & Friday)

	- 1		·			÷.		. •															•			
CENA	Total	44	83	96	65	72	70	79	68	86	91	79	67	85	80	52	74	77	74	113	29	37	29	19	52	1,578
To T	4	σ	26	50	24	21	23	10	15	14	15	7	11	13	12	14	13	13	14	24	11	σ	12	9	17.	382
	3	20	20	18	18	25	16	12	7	10	14	6	11	13	10	8	8	12	9	8	ω	ĉ	3	2	6	270
CALAUAG	2	7	12	6	6	12	15	43	36	43	44	44	29	41	39	36	33	37	35	- 48	15	14	7	5	13	627
From	1	ω	25	1.9	14	14	16	14	10	19	18	19	16	18	19	21	20	15	19	33	24	12	7	. 6	13	399
CALAUAG	Total	37	77	109	57	65	81	69	80	97	89	96	77	80	76	67	82	- 06	73	. 66	63	49	33	26	41	1,713
To CA	4	13	32	64	25	25	32	13	12	25	18	16	11	13 1	14	12	14	20	12	13	12	δ	12	6	11	434
	3	14	18	17	- 2	8	16	S	7	6	10	16	11	11	6	8	15	20	6	15	7	12	6	10	15	275
LUCENA	2	6	6	8	, ,	15	15	36	45	40	39	39 1	32	40	35	31	32	39	35	48	31	16	7	4	10	616
From	1	4	21	22	16	17.	18	15	16	26	22	25	23	16	18	16	21	11	17	23	13	12	5	9	ŝ	388
Direction	Hour	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 06	06 - 10	10 - 11	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	TOTAL

29.

Car, Jeep, Pick-up, Van Jeepney

Bus Truck, Trailer

APPENDIX 3.1-3 (2) TRAFFIC COUNT SUMMARY - LUCENA - CALAUAG SECTION -

TABLE TRAFFIC COUNT SUMMARY

STATION : ALLEN - CALBAYOG

DATE : Oct. 17th & 18th, 1984 (Wednesday & Thursday)

L	م	ا		1			1			-	r . T	r			<u> </u>	ر.	[]		1	[````]	÷		T-i-i-I		T T		1
ALLEN	Total	F	7-4	0	0	2	5	7	12	6	10	17	11	٤.	7	12	12	12	4	2	4	2	4	1	4	146	
To	4	1	1	0	0	0	3	Ţ	3	5	4	5	0	1	3	1	1	2	0	1	1	0	0	0	0	33	
	3	0	•	0	0	2	2	0	2	• •-4		5	2		0	0	0	0	0	0	0	2	4	0	2	20	
CALBAYOG	2	0	0	0	0 -	0	. 0	3	ε	m		. 2.	ι. Ο	2	2	2		9	2		1	0	0	1	0	42	
U U	1	0	0	0	0	0	0	۲ ۲	•	0	ম	5	4	4	2	6	5	4	2	0	2	0	0	0	2	51	
From		2	1	0	0	0 1	1	- - -	10	12	27	1	13		17	18	15	12	4 - 1	5	12	5	. 0	0	1		
CALBAYOG	Total							-	1		2	11	1		1	1	F-1	1			1					182	
To	4	0	0	0	0	0	0	0	2	2	9	.0	3	0	2	7	С	4	1	4	4	2	0	0	0	9	
	3	0	0	0	0	0	0	2	F1	m	11	0		0	1 7	3	0		0	0	2	0	0	0	0	30	ck-up, Yan
ALLEN	2	0	0	0	0	0.	0	4	5	5	'n	4	4	2	2	5	£	2	0	r-1	0	0 0	0	0	0	43	Car, Jeep, Pic Jeepnev
From	1	2	1	0	0	0	1	1	2	2	2	7	<u>م</u>	7	æ	3	თ	9	æ	0	6	m	0	0	1.5	69	ν ν
	/	10 - 00	01 - 02	- F.	1.1	04 - 05	05 - 06	06 - 07	· • 1	,	01 - 60	10 - 11	11 - 12	1	13 - 14	14 - 15	15 - 16	16 - 17	17 - 18		19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	TOTAL	

3 : Bus 4 : Truck, Trailer

APPENDIX 3.1-3 (3) TRAFFIC COUNT SUMMARY - ALLEN - CALBAYOG SECTION -

- 30 -

TRAFFIC COUNT SUMMARY TABLE

(Friday) March 30th, 1984 STATION : NAGUILIAN ROAD •• DATE

	[]			- 1		1	۲. I			·]	i i		· 1	1	- 1			7	~~ _	[
BAUANG	Total	τņ	4	0	2	Q	13	23	28	36.	20	55	43	48	33	33	53	32	45	37	29	16	و د	10	0	605
To B	4	0	0	0	0	0	0	2	~	2	11	15	14	14	4	ŝ	6	12	14	თ	8	ġ.	2	4	0	140
BAGUIO			0	0	0			 20	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ŝ		4	 8	4	e E	4	 S		 1		0	-			0	41
From BAG	2	0	1	0	0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6	6	6	9	11	18	11	12	12.	12	18	6	21	19	13	ŝ	2	- -	0	207
	1	0	3	0	2		n M	7	10	20	27	18	15	18	14	14	21	ŝ	6	: 8	8	۔ ب	2	1	0	217
BAGUIO	Total	 9	5		۔ و	20	26	40	32	48	37	44	36	31	39	27	43	35	42	35	24	15	6	18	11	634
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To	3	0	0	0 1	0	0			1	5	4		2	3	5	5	4	0	2.	2		0	0	0	2	
9)) ···)		44
BAUANG	2	0	3	1	1	11	1 16	18	14	21	13	15	б і 	8	9	10	12	5	14	11	3	4	F-4	6	м —	208
ion From		3	2	3	4	9	6	13	8	14	14	16	18	11	16	9	15	17	20	14	14	8	2	80	2	248
Direction	Hour	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	60 - 80	01 - 00	10 - 11	11 - 12	Т	13 - 14	14 - 15	15 - 16	16 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22 =	1	23 - 24	Total

- 31 -

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APPENDIX 3.1-3 (4) TRAFFIC COUNT SUMMARY - NAGUILIAN ROAD -

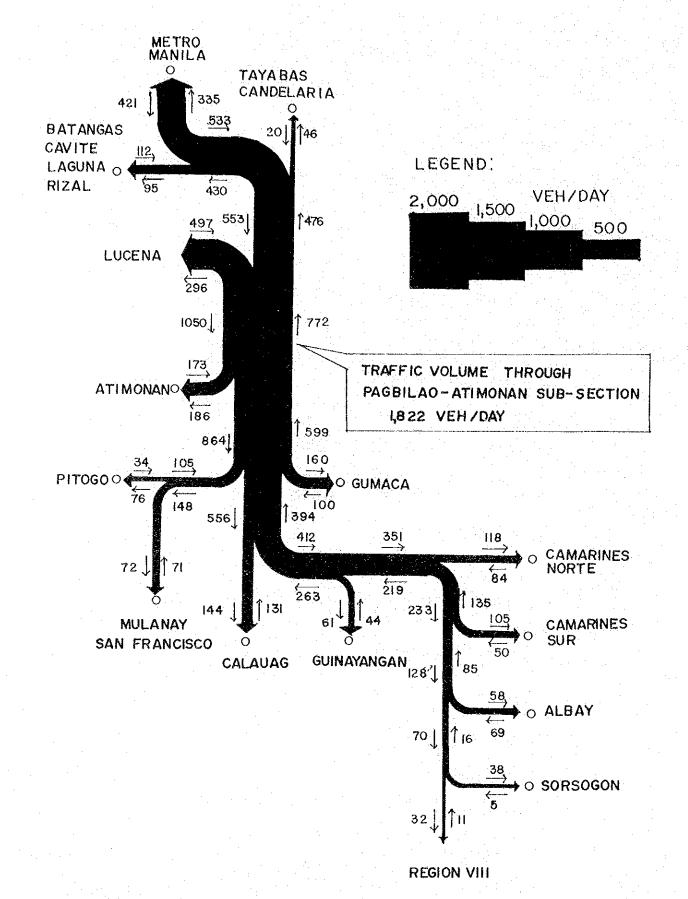
Bus Truck, Trailer

Jeepney

r, Jeep, Pick-up, Van

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APPENDIX 3.2-1 TRAFFIC/COMMODITY FLOW THROUGH LUCENA - CALAUAG SECTION

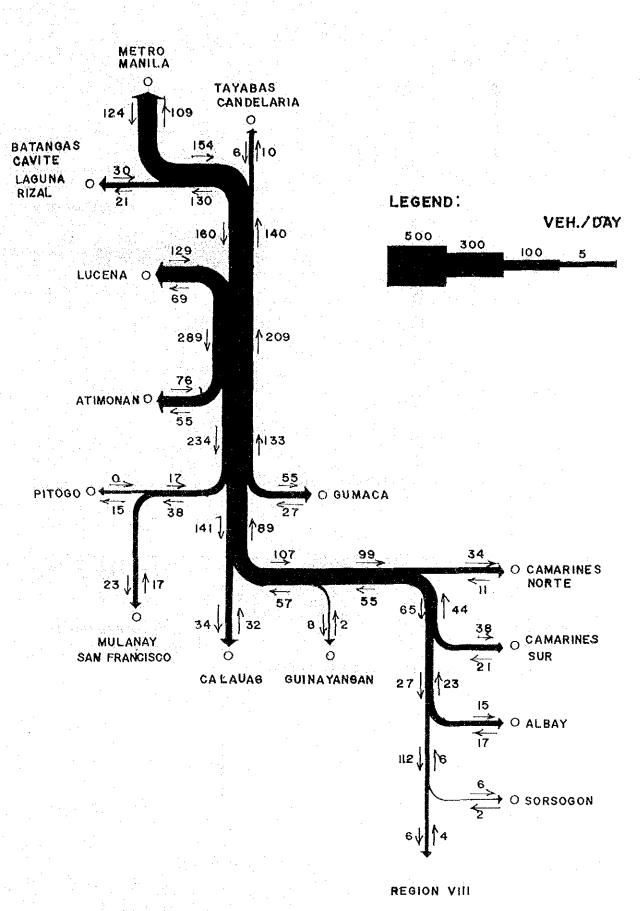


APPENDIX 3.2-1(1) TRAFFIC FLOW IN 1984 THROUGH LUCENA-CALAUAG SECTION (TOTAL VEHICLE TRAFFIC)

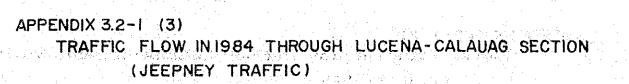
- 34 -

(CAR TRAFFIC)

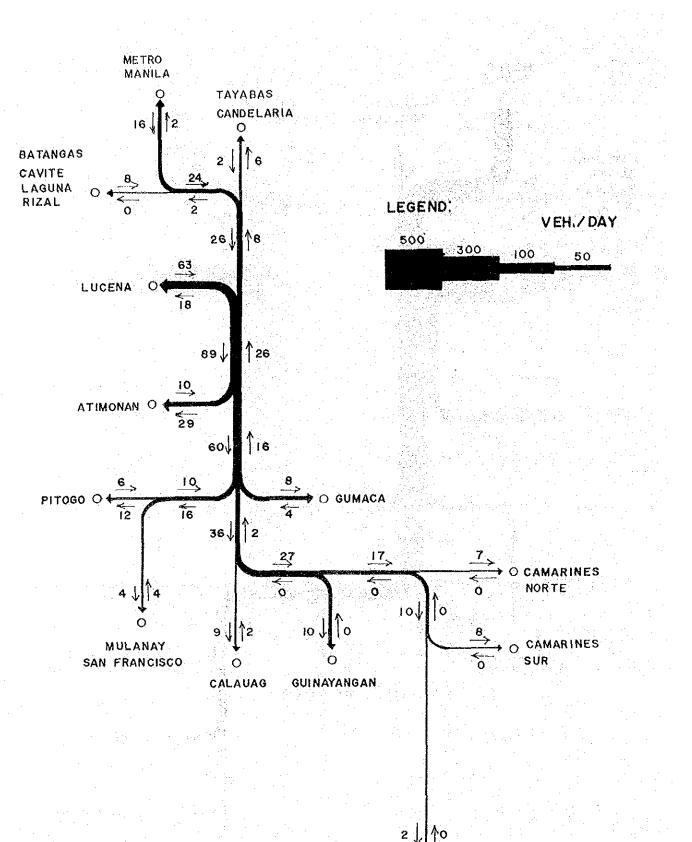
APPENDIX 3.2-1 (2) TRAFFIC FLOW IN 1984 THROUGH LUCENA-CALAUAG SECTION

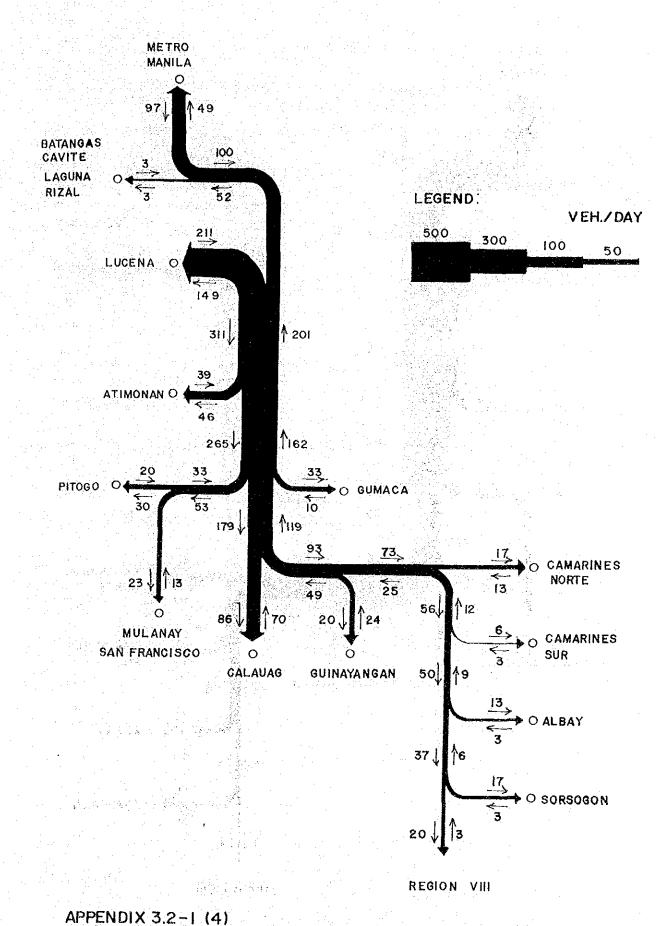


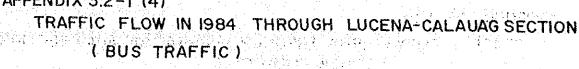
-- 35 --

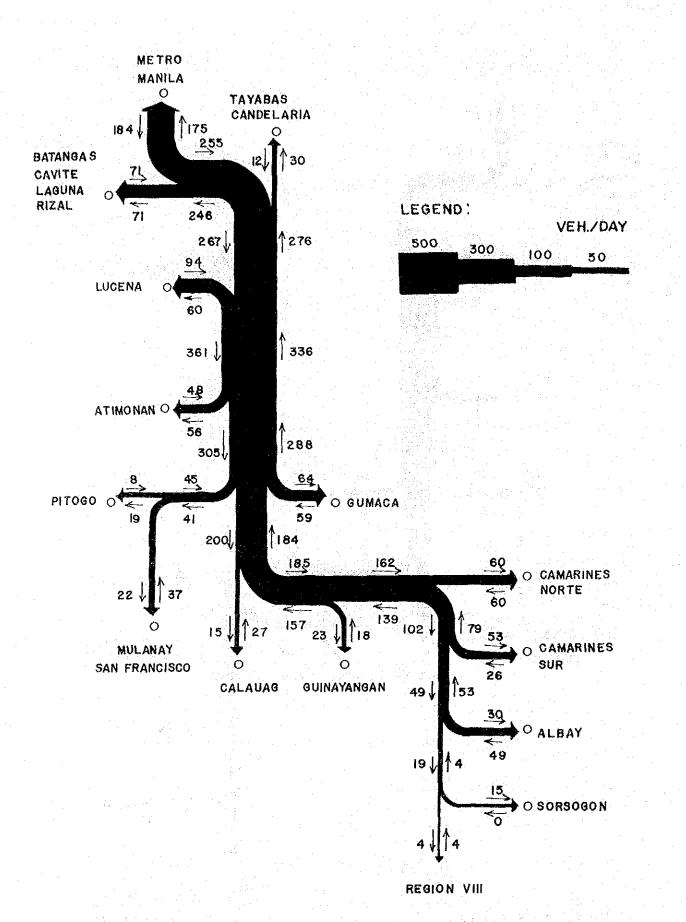


REGION VIII

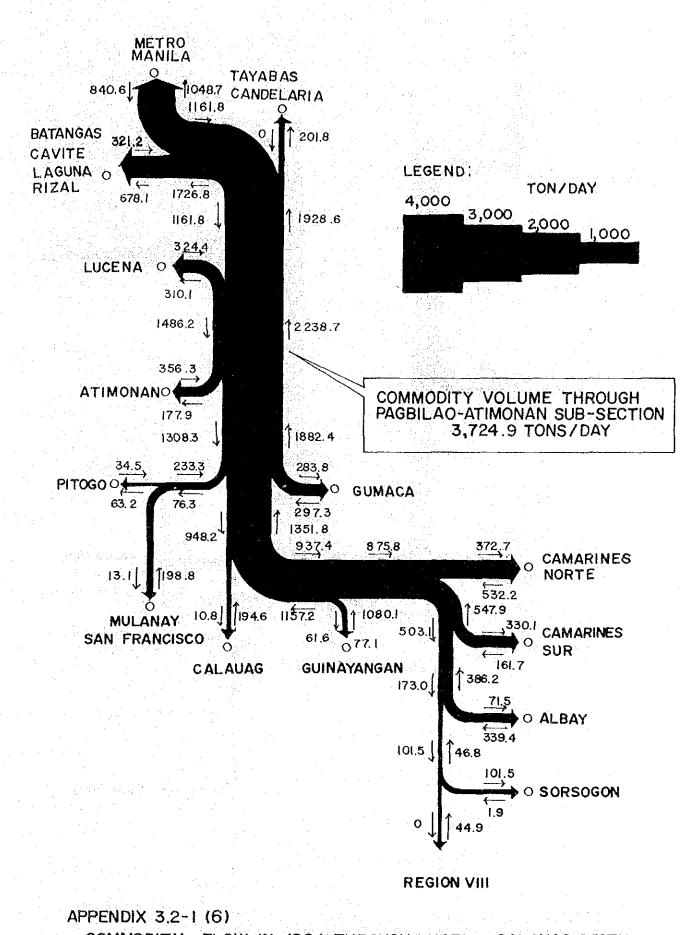


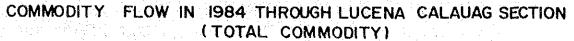


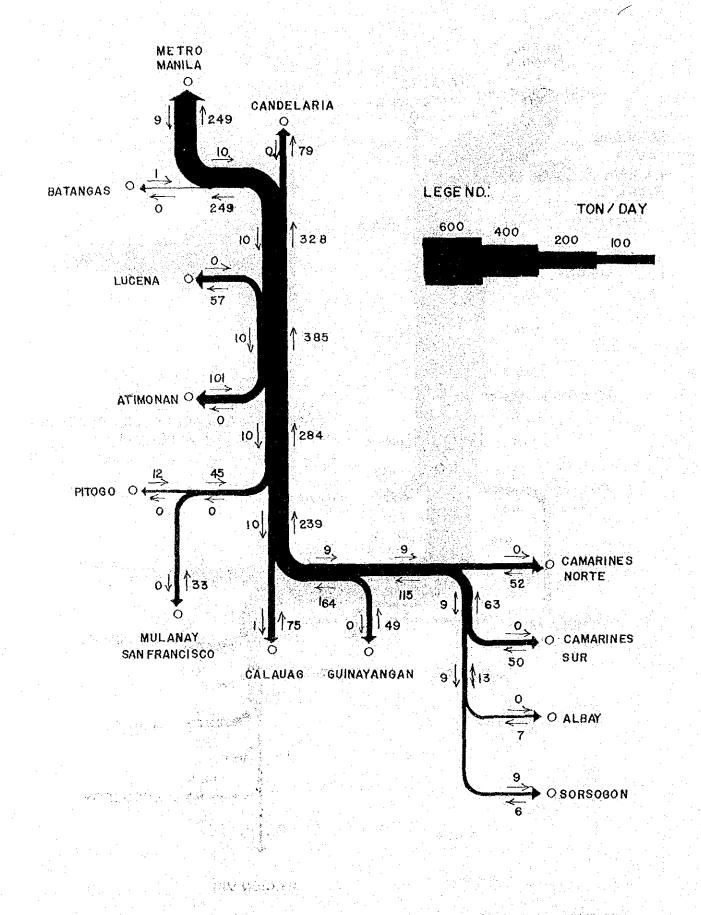




APPENDIX 3.2-1 (5) TRAFFIC FLOW IN 1984 THROUGH LUCENA- CALAUAG SECTION (TRUCK TRAFFIC)

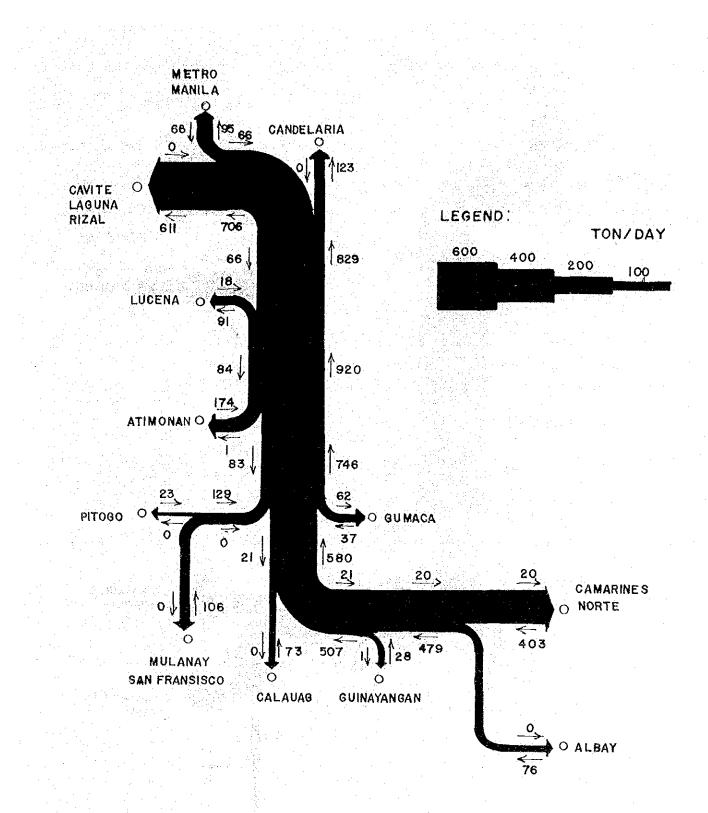


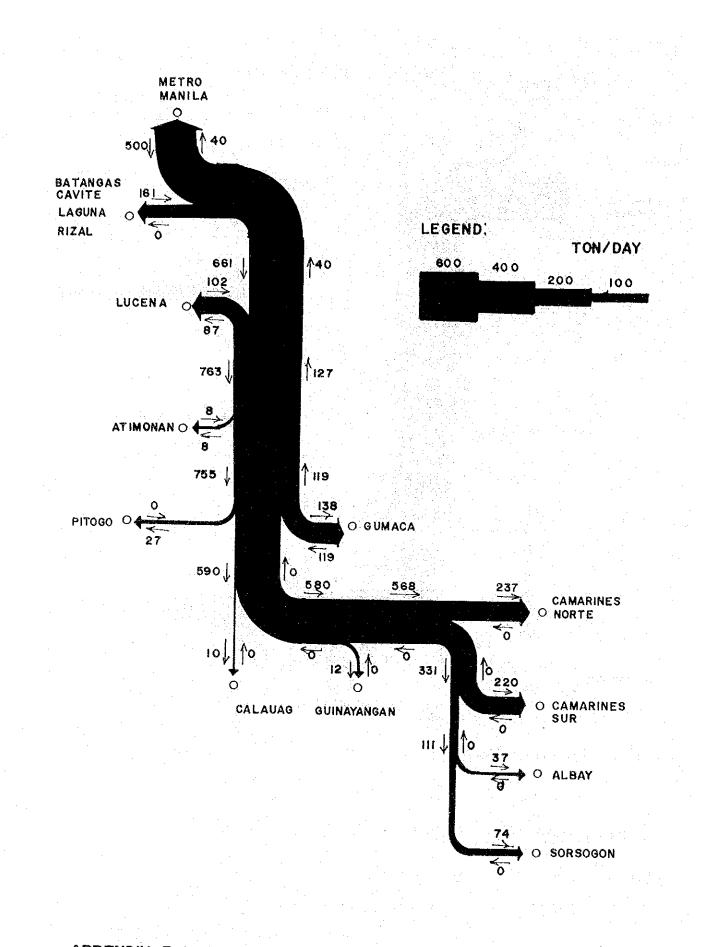




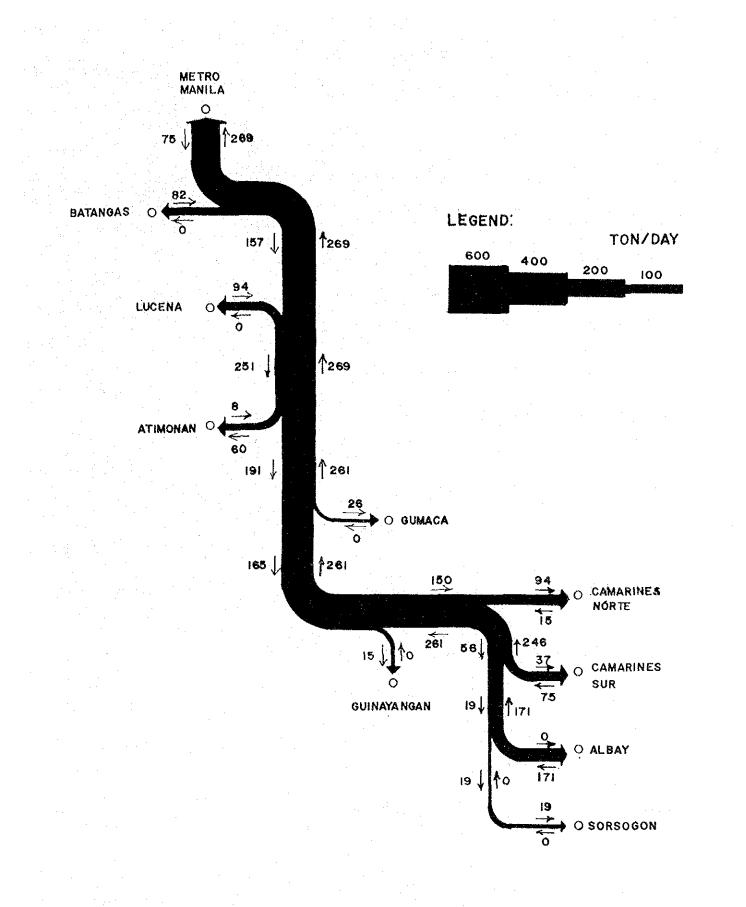
APPENDIX 3.2-1 (7) COMMODITY FLOW IN 1984 THROUGH LUCENA-CALAUAG SECTION (TYPE-2:OTHER UNPROCESSED AGRICULTURAL FOOD STUFFS)

APPENDIX 3.2-1 (8) COMMODITY FLOW IN 1984 THROUGH LUCENA-CALAUAG SECTION (TYPE 3: UNPROCESSED AGRICULTURAL CASH CROPS)





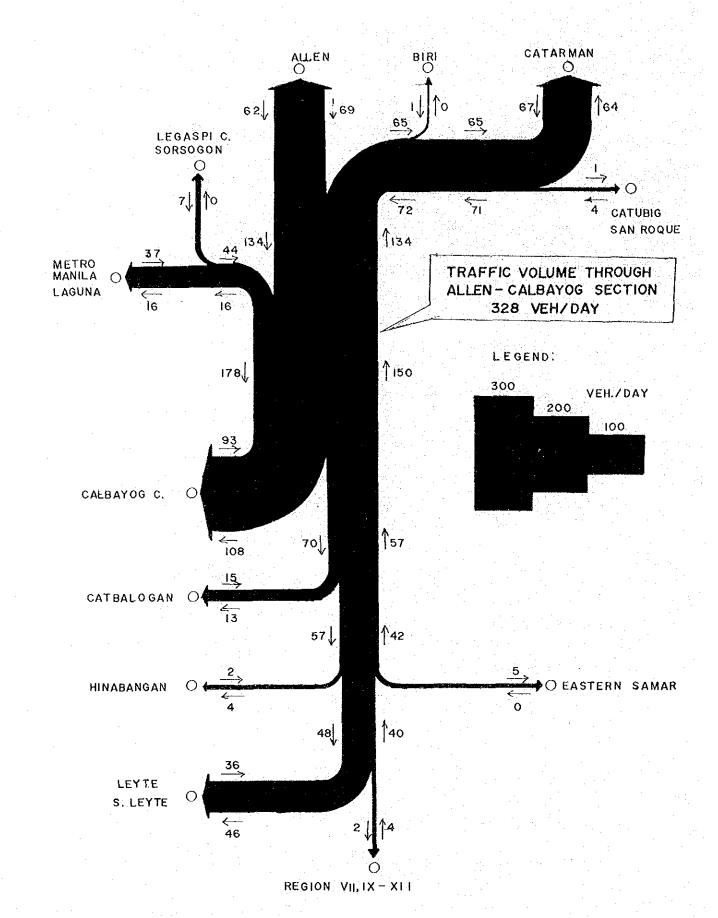
APPENDIX 3.2-1 (9) COMMODITY FLOW IN 1984 THROUGH LUCENA-CALAUAG SECTION (TYPE-5: MANUFACTURED FOODSTUFFS)



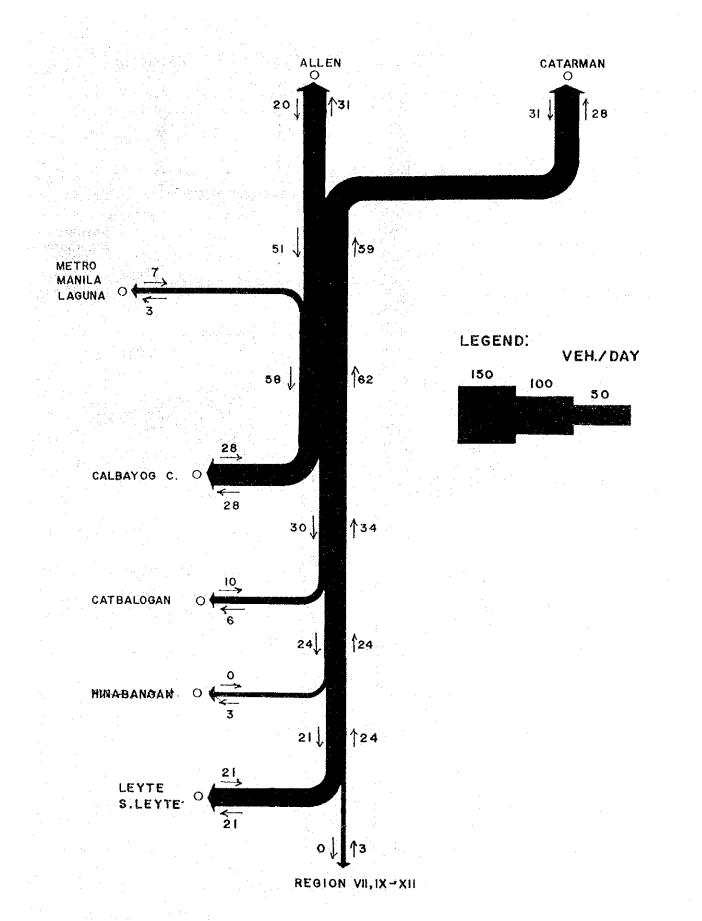
APPENDIX 3.2-1 (10) COMMODITY FLOW IN 1984 THROUGH LUCENA-CALAUAG SECTION (TYPE 9: BUILDING AND CONSTRUCTION MATERIALS)

APPENDIX 3.3-1 TRAFFIC/COMMODITY FLOW THROUGH ALLEN - CALBAYOG SECTION

45 --

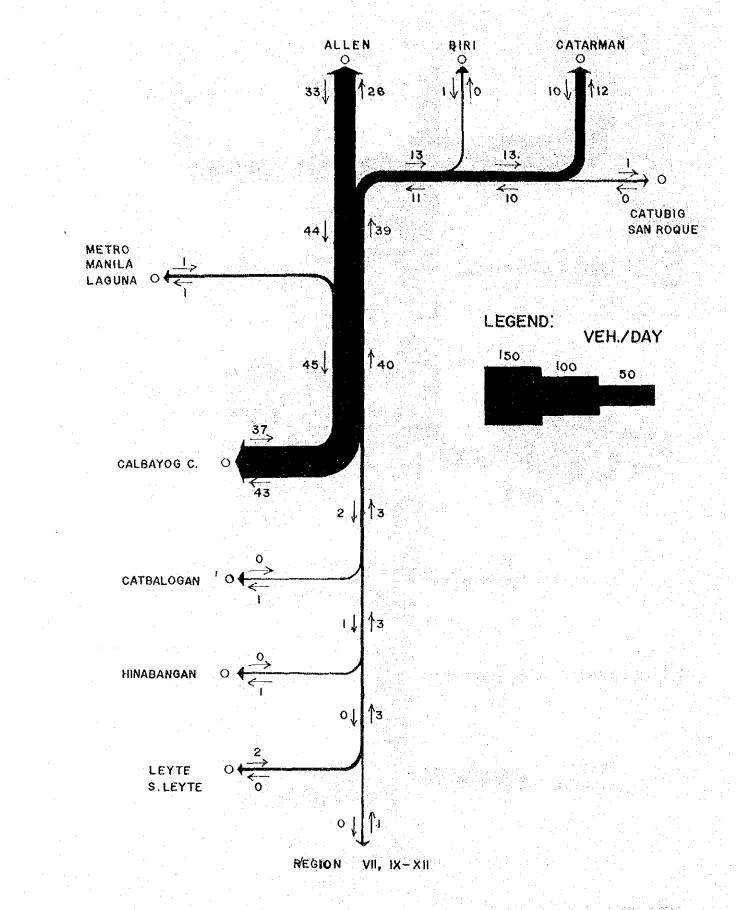


APPENDIX 3.3-1(1) TRAFFIC FLOW IN 1984 THROUGH ALLEN-CALBAYOG SECTION (TOTAL VEHICLE TRAFFIC)



APPENDIX 3.3-1 (2)

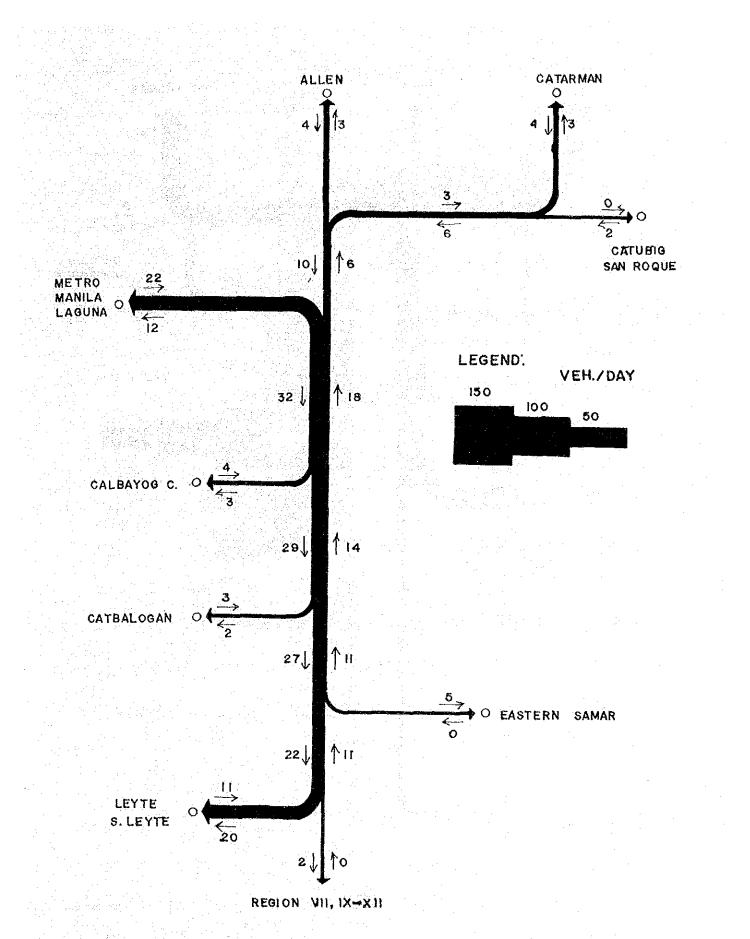
TRAFFIC FLOW IN 1984 THROUGH ALLEN-CALBAYOG SECTION (CAR TRAFFIC)

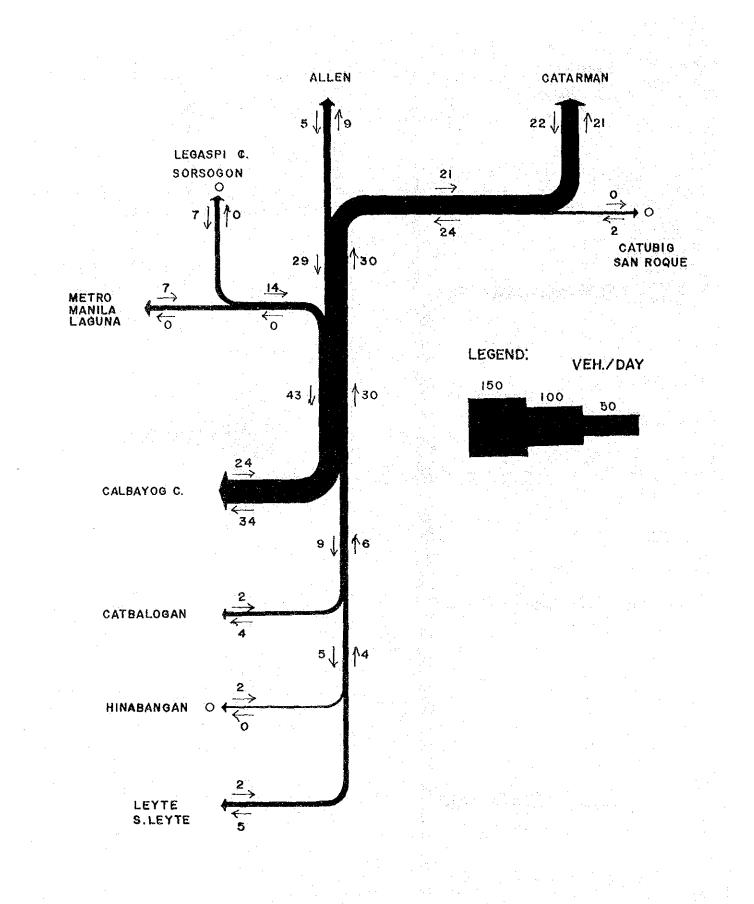


APPENDIX 3.3-1 (3) TRAFFIC FLOW IN 1984 THROUGH ALLEN-CALBAYOG SECTION (JEEPNEY TRAFFIC)

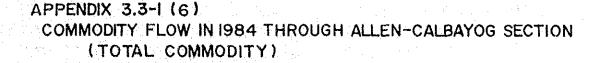
(BUS TRAFFIC)

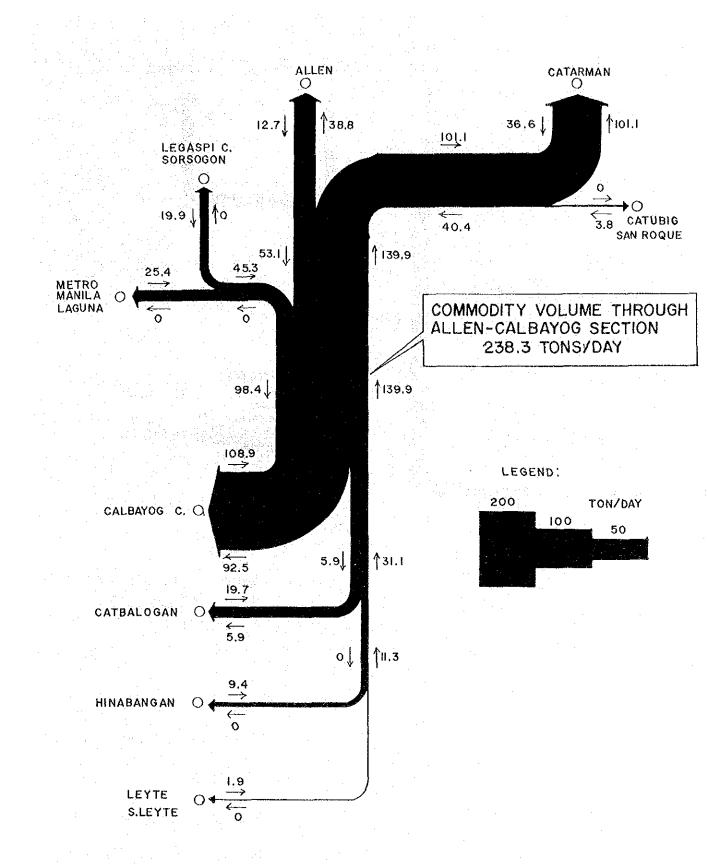
APPENDIX 3.3-1 (4) TRAFFIC FLOW IN 1984 THROUGH ALLEN-CALBAYOG SECTION



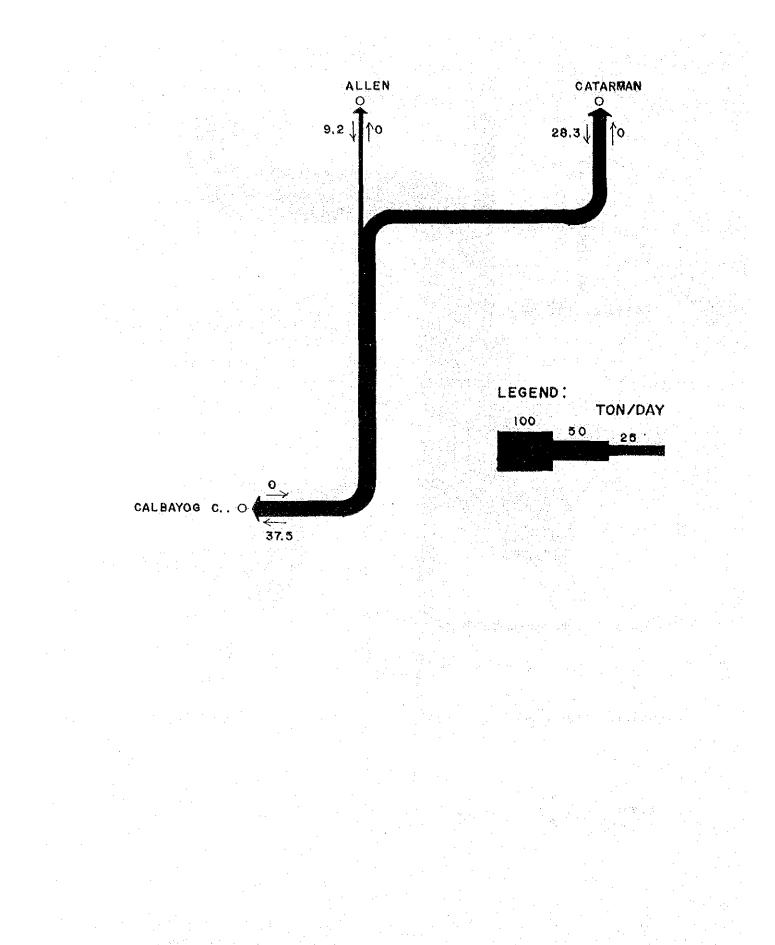


APPENDIX 3.3-1 (5) TRAFFIC FLOW IN 1984 THROUGH ALLEN-CALBAYOG SECTION (TRUCK TRAFFIC)

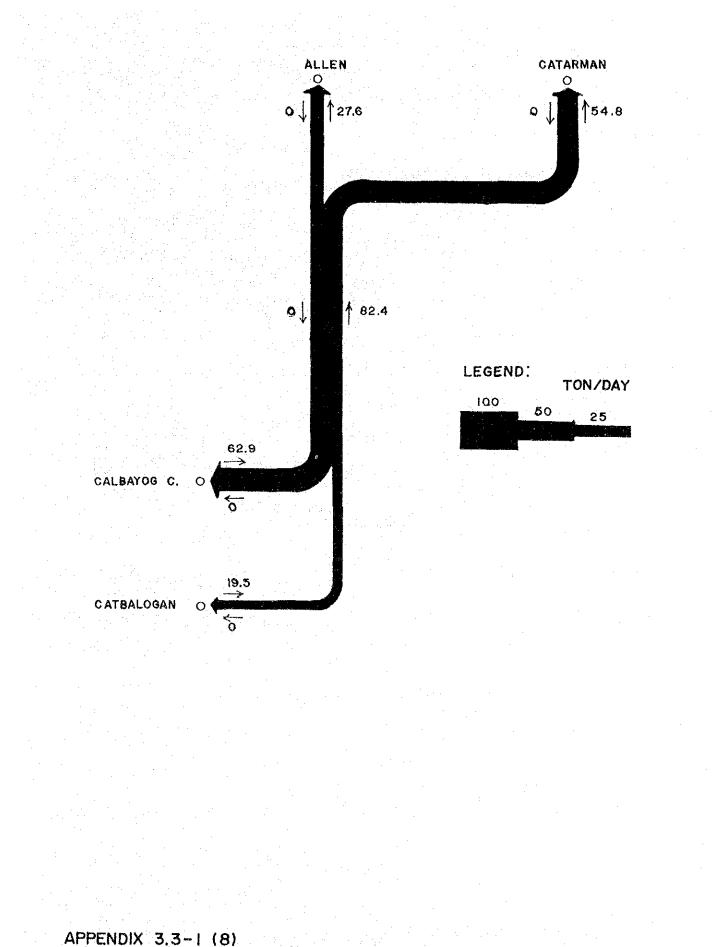




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APPENDIX 3.3-1 (7) COMMODITY FLOW IN 1984 THROUGH ALLEN-CALBAYOG SECTION (TYPE-3: UNPROCESSED AGRICULTURAL CASH CROPS)



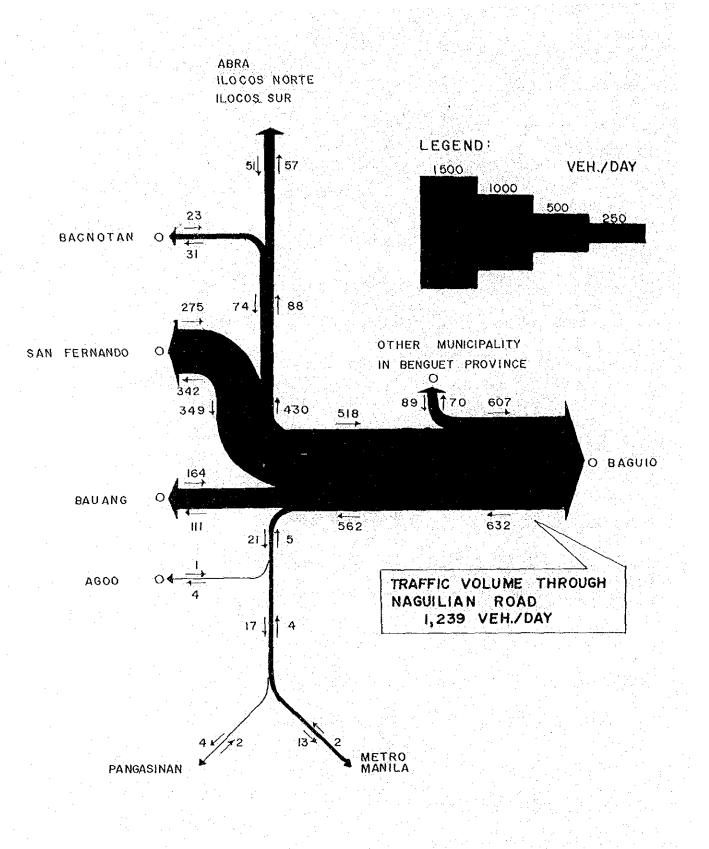
COMMODITY FLOW IN 1984 THROUGH ALLEN-CALBAYOG SECTION (TYPE-8: MINERAL OIL PRODUCTS)

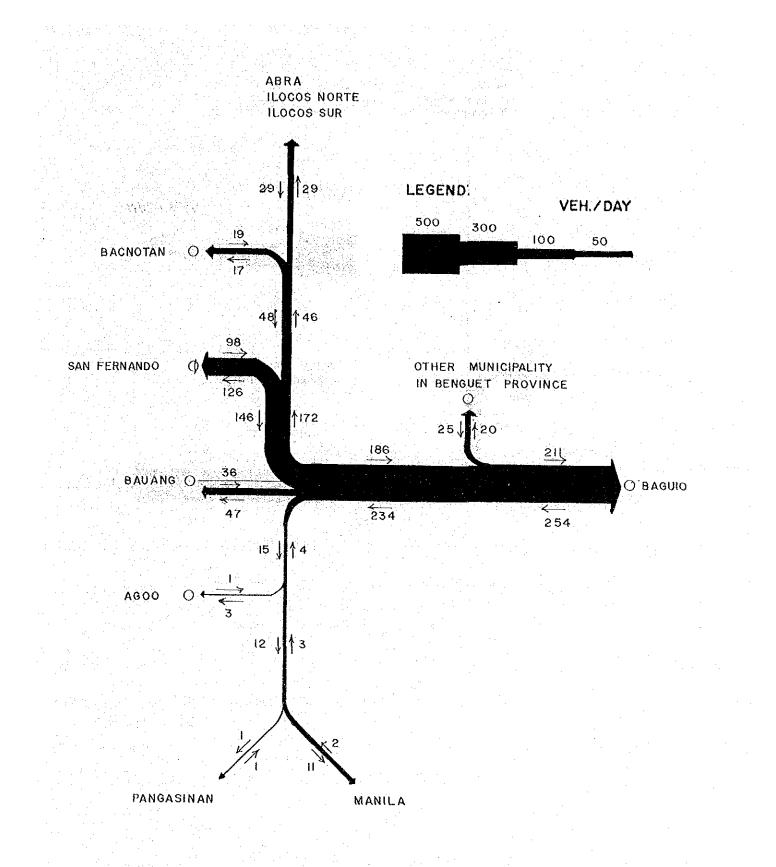
APPENDIX 3.4-1 TRAFFIC/COMMODITY FLOW THROUGH NAGUILIAN ROAD

- 55 --

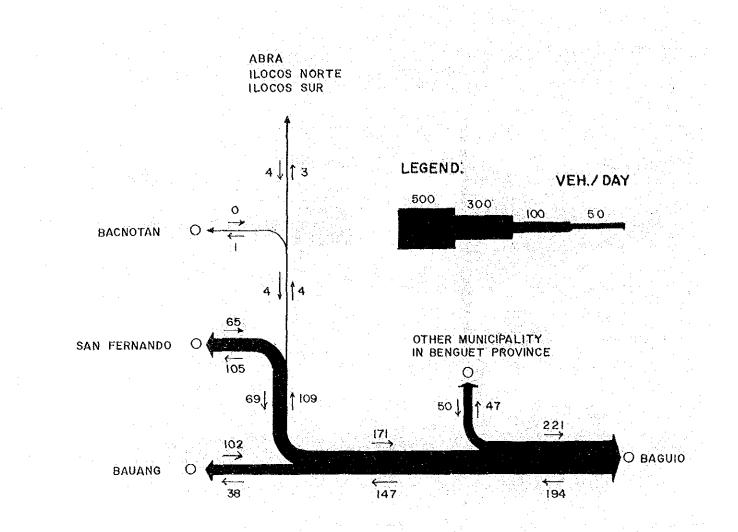
(TOTAL VEHICLE TRAFFIC)

APPENDIX 3.4-1(1) TRAFFIC FLOW IN 1984 THROUGH NAGUILIAN ROAD





APPENDIX 3.4-1 (2) TRAFFIC FLOW IN 1984 THROUGH NAGUILIAN ROAD (CAR TRAFFIC)



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APPENDIX 3.4-1(3) TRAFFIC FLOW IN 1984 THROUGH NAGUILIAN ROAD (JEEPNEY TRAFFIC)

(BUS TRAFFIC)

APPENDIX 3.4 -1 (4) TRAFFIC FLOW IN 1984 THROUGH NAGUILIAN ROAD

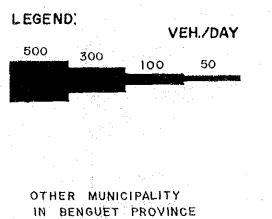
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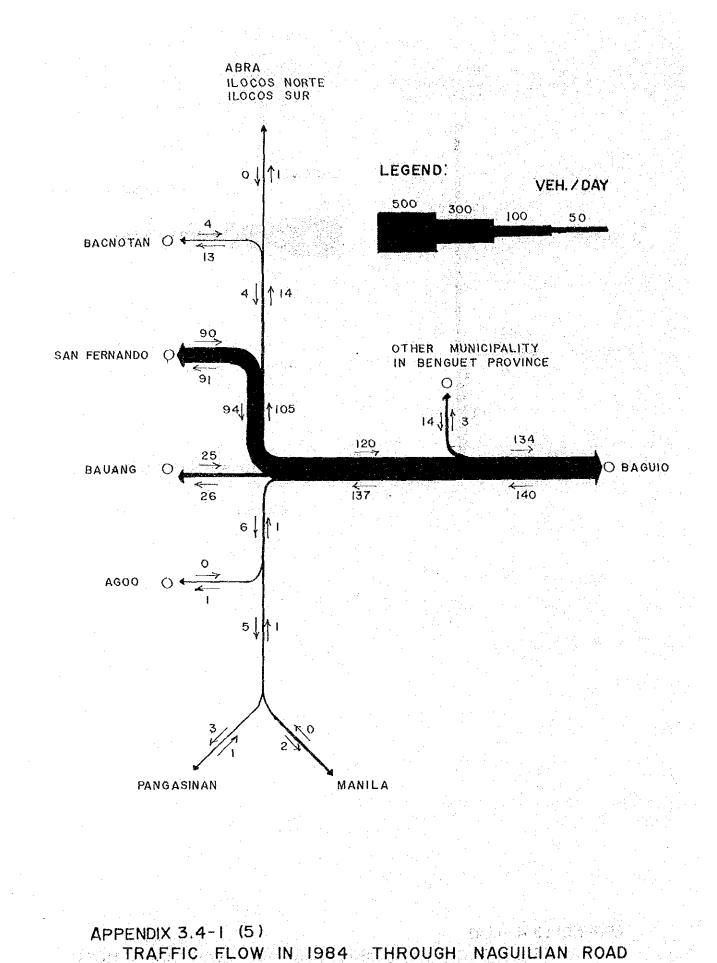


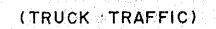
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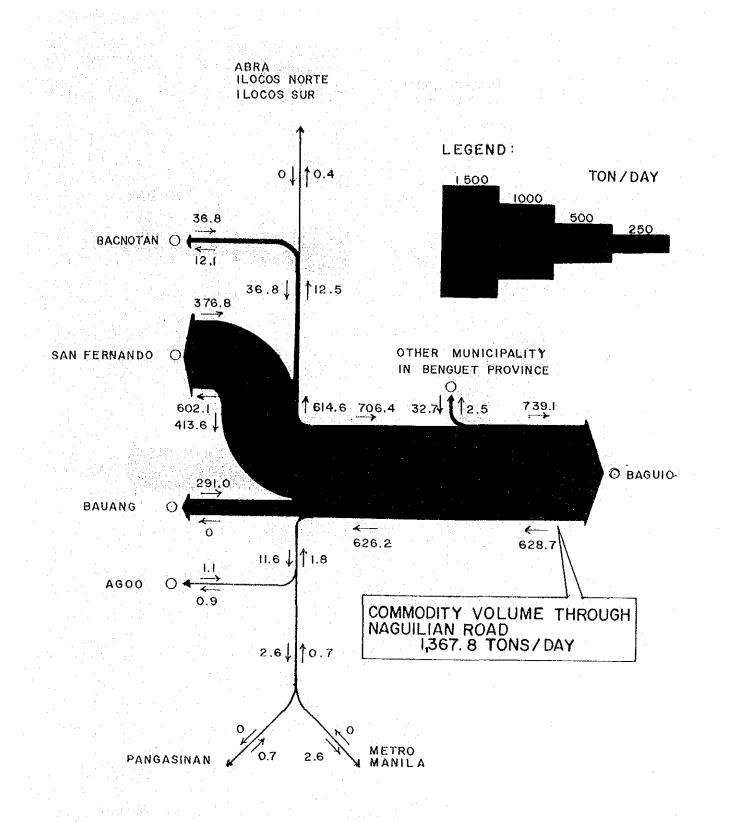
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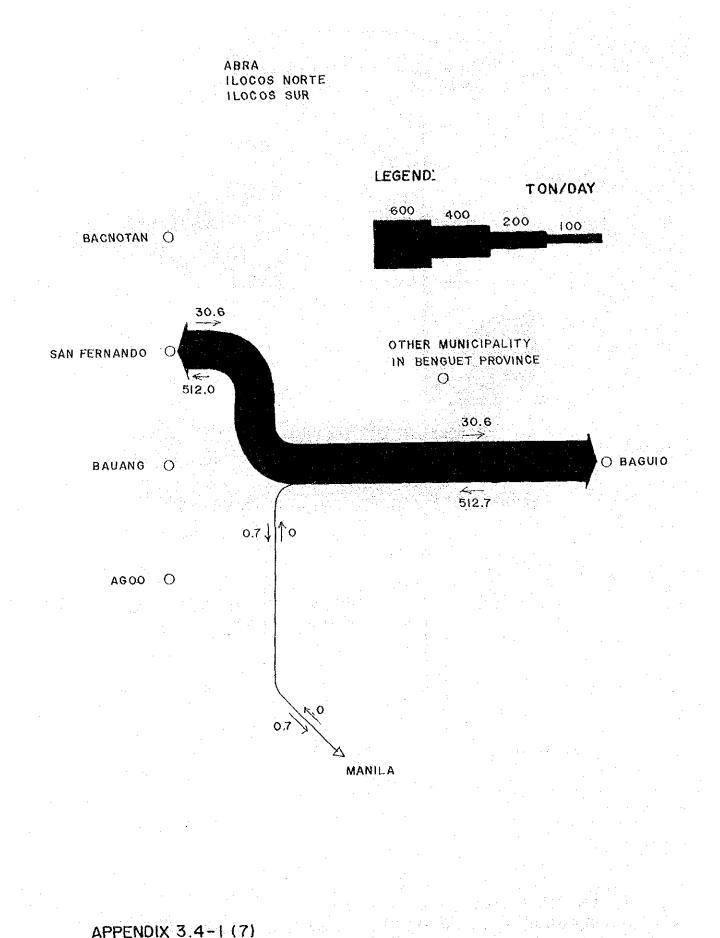
- 59 -







APPENDIX 3.4-1(6) COMMODITY FLOW IN 1984 THROUGH NAGUILIAN ROAD (TOTAL COMMODITY)



COMMODITY FLOW IN 1984 THROUGH NAGUILIAN ROAD (TYPE-7; FORESTRY AND MINING PRODUCTS)

APPENDIX 3.4-1 (8) COMMODITY FLOW IN 1984 THROUGH NAGUILIAN ROAD (TYPE-8 MINERAL OIL PRODUCTS)

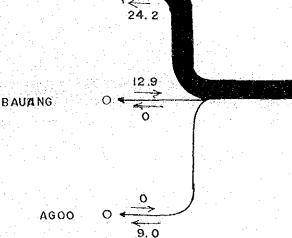
- 63 -

PANGASINAN

BACNOTAN

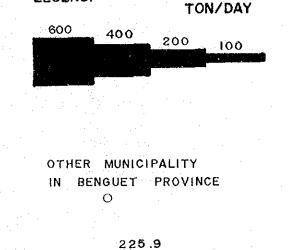
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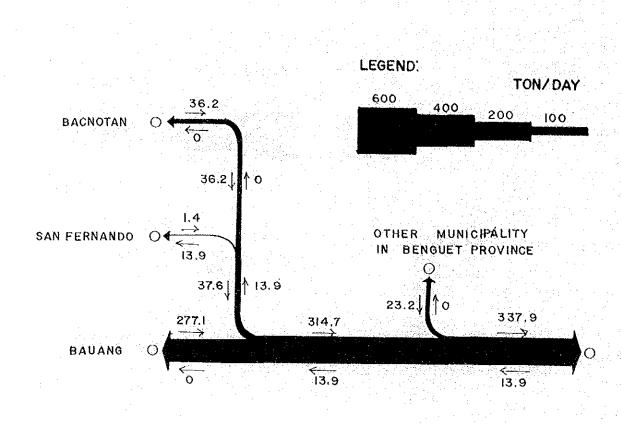


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APPENDIX 3.4-1(9) COMMODITY FLOW IN 1984 THROUGH NAGUILIAN ROAD (TYPE-9; BUILDING AND CONSTRUCTION MATERIALS)



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4.1-1 Future Planning Framework 4.2-1 Future Traffic Flow

APPENDIX 4.1-1 FUTURE PLANNING FRAMEWORK

- 65 -

APPENDIX 4.1-1 (1) POPULATION PROJECTION FOR THE PROJECT AREA BY PROVINCE (MEDIUM ASSUMPTION 1980 - 2015)

	CALOR LADOUTING		POPUL	ATION (in	Thousand)			<u></u>		
RI	EGION/PROVINCE	1980	1990	2000	2010	2015	1980/1970	1990/2000	2000/201	2010/201
	Abra	160	195	231	261	275	2.00	1,71	1.23	1.05
	Benguet	355	465	573	661	699	2.74	2.11	1.44	1,12
	Norte	391	463	541	606	633	1.70	1.57	1.14	88.0
	llocos Sur	444	541	652	752	798	2,00	1.88	1.44	1.19
	La Union	452	569	692	798	846	2.33	1.98	1.44	1,18
	Mt Province	103	117	128	136	139	1.28	0.90	0.61	0.44
	Pangasinan	1,636	1,942	2,255	2,506	2,605	1.73	1.51	1.06	0.78
	Sub-Total	3,541	4,292	5,073	5,721	5,995	1.94	1.69	1.21	0.94
	Bataan	323	452	589	712	767	3.42	2.68	1.91	1.50
	Bulacan	1,096	1,441	1,798	2,114	2,249	2.77	2.24	1.63	1.25
	Nueva Ecija	1,069	1,325	1,589	1,807	1,899	2.17	1.83	1.29	1.00
I	Pampanga	1,182	1,523	1,889	2,207	2,343	2.57	2.18	1.57	1.20
	Tarlac	688	828	964	1,071	1,113	1.87	1.53	1.06	0.17
	Zambales	444	573	699	802	845	2.58	2.01	1.38	1.05
	Sub-Total	4,803	6,142	7,529	8,713	9,215	2.49	2.06	1.47	1.13
	Batangas	1,174	1,462	1,750	1,987	2,084	2.22	1.81	1.28	0.96
	Cavite	771	1,113	1,488	1,837	1,997	3.74	2.95	2.13	1.68
	Laguna	973	1,326	1,693	2,013	2,153	3.14	2.47	1.75	1.35
	Marinduque	174	211	250	281	294	1.95	1.71	1.18	0,91
	Mindoro Occidental	223	290	358	419	445	2.66	2.13	1.59	1.21
	Mindoro Oriental	447	589	738	875	935	2.80	2.28	1.72	1.34
	Palawan	372	506	651	786		3.12	2.55	1.90	1.46
	Quezon	1,236	1,592	1,960	2,286	2,427	2.56	2.10	1.55	1.20
	Rizal	556	792	1,044	1,271	1,367	3.60	2.80	1.99	1.47
	Romblon	193	224	255	277	283	1.50	1.30	0.83	0.43
	Sub-Total	6,119	8,105	10,188	12,031	12,831	2.85	2.31	1.68	1.30
	Albay	809	1,005	1,199	1,364	1.437	2.19	1.78	1.30	1.05
	Camarines Norte	308	399	496	584	626	2.62	2.20	1.65	1.40
	Camarines Sur	1,099	1,405	1,740	2,042	2,179	2.49	2.16	1.61	1.31
	Catanduanes	175	212	2 5 2	287	303	1.94	1 74	1.31	1.09
	Masbate	585	730	088	1,010	1,068	2.24	1.89	1.39	1.12
	Sorsogon	501	637	787	923	985	2.43	2.14	1.61	1.31
	Sub-Total	3,477	4,388	5,355	6,212	6,597	2.35	2.01	1.50	1.21
	Leyte	1,305	1,594	1,914	2,206	2,340	2.02	1.85	1.43	1.19
	Southern Leyte	296	363	438	507	540	2.06	1.90	1.47	1.27
1	Eastern Samar	321	367	415	453	469	1.35	1.24	0.88	0.70
	Northern Samar	380	448	-522	584	611	1.66	1.54	1.13	0.91
	Western Samar	502	589	685	768	805	1.61	1 52	1.15	0.95
	Sub-Total	2,805	3,360	3,973	4,518	4,766	1.82	1.69	1.29	1.07

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APPENDIX 4.1-1 (2) EXPECTED GROWTH OF AGRICULTURAL OUTPUT BY REGION 1984 - 1987

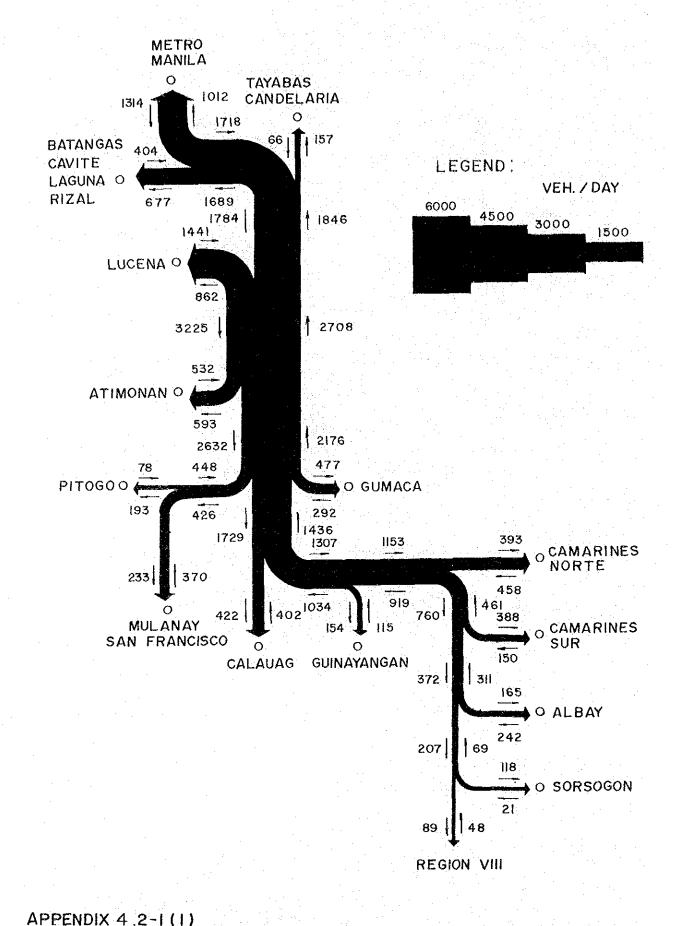
NIII 5.2 6.2 7:4 5.2 -4.6 4.6 7.3 Regional figures are adjusted from 1982 - 1987 5-Year Regional Development Plan to 1984 - 1987 based on adjustments on the national figure. ı 4.4 6.0 7.6 6.2 5 ы С ເດ ເດ 7.3 N U 4 ດ ຕ 6.7 4.8 9.7 1.7 4.1-1.5 7.6 0.7 ı ł ł \geq c o - نو ه σ ø о. Т -2.6 о. Э.О 8.2 4.2 4.2 5.6 2.4 10.3 5. 80 III ¢. I ł с G 6.4 2.5 6 с. Т 2. 00 -8.5 യ ഹ 3.9 0.2 5. 4 10.9 ł |--| |--| 4.5 3.0 2.3 3 1 2 4.0 0.5 11.9 7.1 4.2 3.7 ł Philippines 4.0 5.4 0 . 8 2.5 . ເ 5.6 0.2 10.3 °.2 7.2 -5.7 \sim ഹ Coconut (Copra) Commercial Crops Vegetables Food Crops ò. Tobacco Note: Fruits Sugar Palay റ Corn Forestry Mining α Fish ശ Meat

Source: NEDA

- 67 -

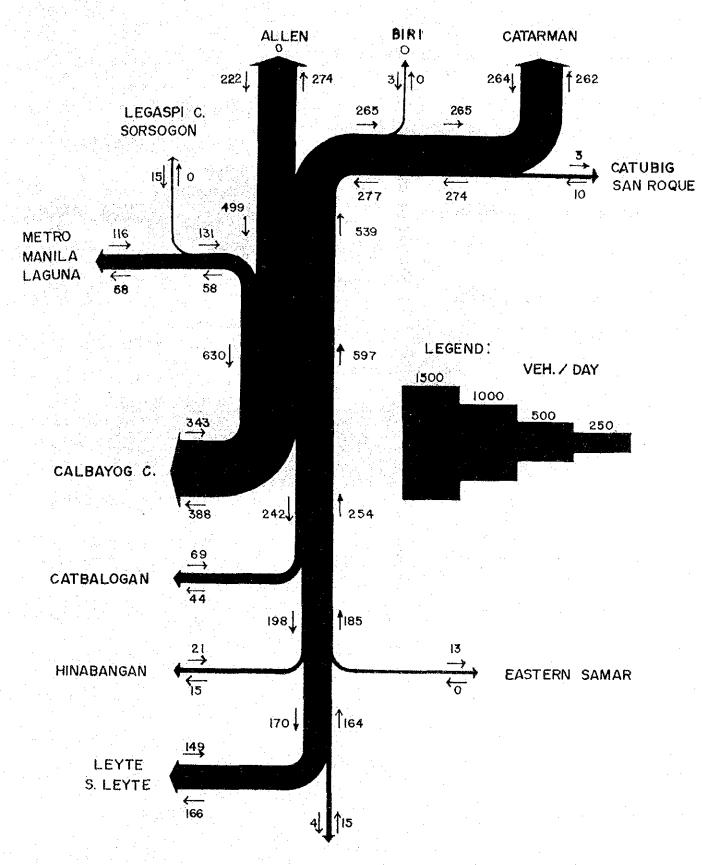
APPENDIX 4.2-1 FUTURE TRAFFIC FLOW

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TRAFFIC FLOW IN 2010 THROUGH LUCENA- CALAUAG SECTION (TOTAL VEHICLE TRAFFIC)

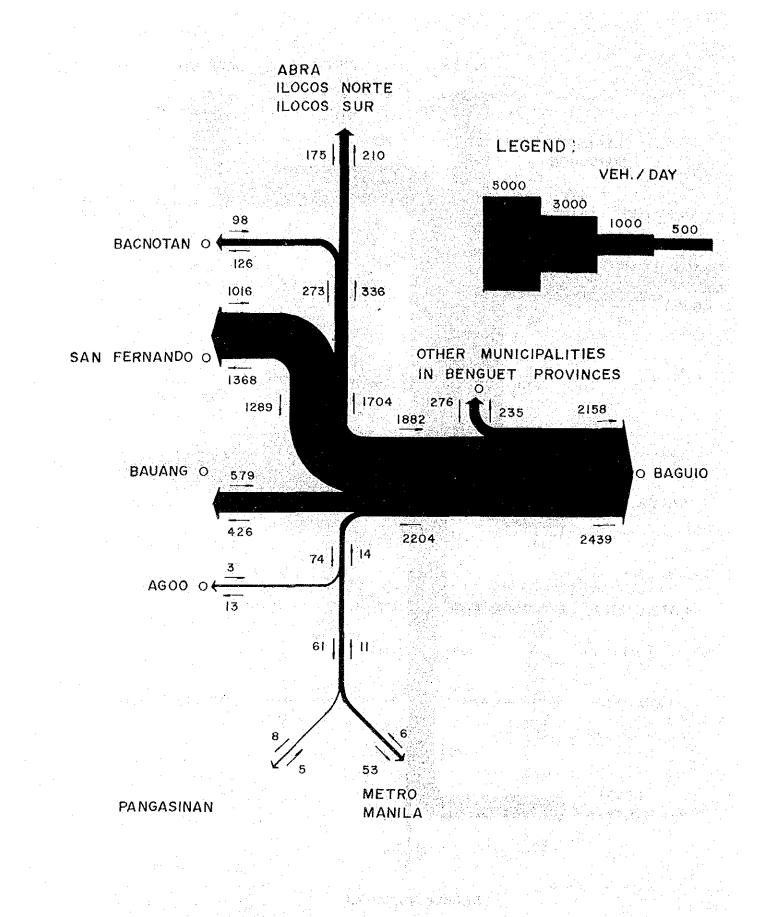
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APPENDIX 4.2-1 (2) TRAFFIC FLOW IN 2010 THROUGH ALLEN-CALBAYOG SECTION (TOTAL VEHICLE TRAFFIC)

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APPENDIX 4.2-1(3) TRAFFIC FLOW IN 2010 THROUGH, NAGUILIAN ROAD (TOTAL VEHICLE TRAFFIC)

APPENDICES FOR CHAPTER 5

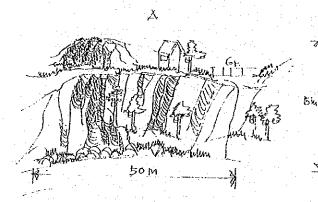
5.2-1	Examples of Check Table 73
5.3-1	Summary Table of Disaster 79
5.3-2	Road Disaster Diagram 89
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5.7-2	Classification of Typhoon Scale 109

APPENDIX 5.2-1 EXAMPLES OF CHECK TABLE

- 73 --

								Sheet No.	8-88-1
Ro	oute		N(IN-8-4)	Xm. Post	291.000	Width	50 M	Region	Î
	1	1	Kind of Slope	(IV Cut Slop	e (e) Nat	ural Slope			
e e		2	Kind of Failure	(1) Nothing		face Failure	(3) Deep Fail	lure	
ra i) ure		3	Size of Failure	(11/ 50 ^{m3} >	(2) 50 ^h	¹³ ~ 500 ¹¹¹³	(3) 500 ^{m3} - 2	² ,000 ⁰³ (4)	2.000 ^{m3} <
	[4	Nate Occured	Day 2	7-30 Mon	ith Aug.	Year 198	14 leg	Harring
ce of		5	Traffic Interruption Period	(1) 1 day >	(2) 1 c	lay~7 deys	(3) 7 days ≪		
£vidence		6	Counter Measure Taken	(1) Structur		wval of Slide	Hatee ials	(3)	Others
ų, ų		7	Rainfall Intensity/ Day	(1) 100 mm		nin 500 ₈₄₆	(3) 200 ¹⁰⁰	Right States and	
	e]	g	lleight	(1) 10 ¹¹¹ >			(3) 30 ⁶⁰ - 50 ⁸	" (1)	50 ⁸⁴ <
Existing Slope	t io	9	Gradient	(1) 45° >	(2) 45°	~ 60"	(1) (1) <	(4)	Overhung
Sign St	na.	10	Berm	(1) Existing	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Width (👘)	i.de	Nothing
<u>ش</u> "	ŏ	11	Slope Protection	(1) Structur	e () (a) veg	etat ion	(3) Nothing		
		12	Hardness	(1) Hard Roc	:k (& Sof	t Rock			
e	.]			(1) Granite					
10		13	Name	(7) Slate	a state encoderate		•		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<u>Condition</u> ork	×	100			me (13) Shale	(14) Mudsto	pe (15) Cope	Home ate(16)	Hasa
1 12	Š	·	·····	<u>(17) Volcani</u>		المتحدر فيصحبه المحاد			
Geolooical		14	Weathering Condition	(1) Fresh	(2) 51 i Nea	ghtly thered	(a) nighty w	فيرتد والمراجع	Nearly Soil
0.0		15 -	Condition of Crack	(1) Sparse	(2) Reg		(Deve Imper		
		16	Direction of Crack	(1) Inclined	to Mountain (1)	Irregular luc			
So i I		17	Thickness	(1) 5 ¹⁰ >	(2) 5 ⁴⁰	<u>~ 10^{III}</u>	(3) $1n_{\rm m} \sim 50_{\rm H}$	" (4)	50 ₁₁₎ <
1	<u></u>	18	Compactness	(1) Tight	(2) 51 i	ghtly loose	(3) Loose	 	
ő		19	Degree of Saturation	(1)/Dry	(2) Wet		(3) Scepaye	(4)	Spr ing
Kater Condition		20	Surface Water Concentration	(1) None	(à/Low	· · · · · · · · · · · · · · · · · · ·	(3) Itiyli		
	_	21	Drainage Facilities	(1) Existing			· · · · · · · · · · · · · · · · · · ·		
neering Judge-		22	Impact to Road	(1) Low	(2) Ave	rage	(3) Iligh		<u> </u>
ree' udg		23	Cause of Disaster						
 ני זו	E	24	Counter Measure	· · · · · · · · · · · · · · · · · · ·					····
Ske	etci), etc.			and the first states		Photo No.		· · ·

APPENDIX 5.2-1 (1) CHECK TABLE OF SLOPE FAILURE



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· · · · · · · · · · · · · · · · · · ·	r									
Date of Survey		n	Ma . 11	1			1 <u>1</u>			
Date in Survey	1 1	Uay 🔆	Month		Tear	1.2 4 1.	l Starveyor	.i K	160670	1 .

APPENDIX 5.2-1 (2) CHECK TABLE OF EMBANKMENT SLOPE FAILURE

			and the second	ana an			Sheet No.	5-60
Route		M.H (72-18)	Kni. Post 701.2	00	Width	30 H	Region	M
مىشىدى. ئ	Γ _ι	Kind of Slope	(V) Embankment Slope	(2) Natu	ral Slope	(3) Overflow Secti	on (5) Oth	ers
Ľ.	2	Location	(1) Approach of Bridge			ver or Sea (3) Inside	of Curve (4) Other
Ĩ.	3	Size of Disaster	(1) 50 ^{m3} >	(2) 50 ^{m3}	$\sim 100^{m3}$	(Y 100 ^{m3} <		
<u>,</u>	4	Date Occured	Day	Hont	<u>h</u>	Year		
Idence o	5	Traffic Interruption Period	(1) 1 day>	(2) 1 da	$y \sim 7 days$	s (3) 7 days<	·	
	6	Counter Measure Taken	(1) Only Fill	N Rior		(3) Other Structur		
.	7	Rainfall Intensity/ Day	(1) 100 ^{mm} >	(2) 100 ^m	^m ~ 200 ^{ሰጠ}		(4) 300	^m
	8	Slope Height	(1) 5 ⁶¹ >	(2) 5 ^m 7	~ 10 ^m	(10 ^m <		
2 2 2	9	Slope Gradient	(l) 45°>	(2) 45°	~ 60 _	(V/ 50° <	······	
Condition	10	Surface Nater Concentration	NV None	(2) Low		(3) High		
ouo	11	Slope Protection	NY Nothing	(2) Vege	tation	(3) Riorap (4) (ther Struct	ure (
: 7 1	12	Orainage Facilities	N Nothing	(2) Exis	ting		· . ·	
2	13	Impact to Road	(1) Low	M Aver	age	(3) High		
neering Judge- went	14	Cause of Oisaster	(1) Concentration of Surf	face Water	(2) River	Stream (B) Sea Wave	(4) Oth	ers
e ne	15	Counter Measure		1.1	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	e de la companya de l		

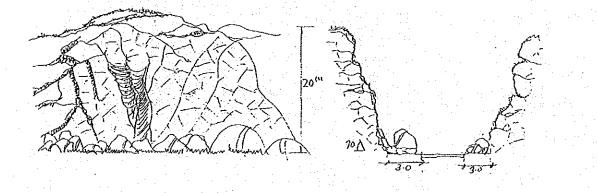
Sea

			<u> </u>		
Date of Survey Day	7 Month	Oct Year	1.984	Surveyor	B./WATA

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· · · ·				n an		ar e construction estate e construction	Sheet No.	5-11
Route		M.H (TVA - 15)	Km. Post 15-7.	600	Width	250 H	Region	ŢΓA
	1	Kind of Slope	NY Cut Slove	(2) Natura				
s.	2	Type of Fall	(1) Debris Fall	(2) Rock F.				
Fall	~ 3	Fallen Rock Size	(1) 2δ ^m >	(2) 20 ^m ~-	s& ^m	(३) sõ ^m <		<u> </u>
	4	Date Occured	Day	Honth	<u> 18 (18)</u>	Year		
£vidence	S	Traffic Interruption Period	(1) 1 day>	(2) 1 day	~7 days	(3) 7 days <		
2	6	Counter Peasure Taken	(1) Structure ()	(2) Remova		n Rock	(3) Othe	
	7	Rainfall Intensity/ Day	(1) 100 ^{mm} >	(2) 100 ^{mm}		(3) 200 ^{mm} 300 ^{mm}	(4) 300 ⁿ	
	8	Slope Height	(1) 10 ^m >	(2) 10 ^m ~		(3) $30^{m} \sim 50^{m}$	(4),50 ^m	
eu	9	Slope Gradient	(1) 45 >	(2) 45 ~~	60	(3/ 60 <	N Over	hung
d c	10	Degree of Saturation	(M Ory	(2) Wet		(3) Seenage	(4) Spri	Ing
Existing Slope Condition	11	Surface Water Concentration	N/ None	(2) Low		(3) Xigh	n den sykredere Service	
S	12	8er#	(1) Existing Number () With ()	(2) Nothing		
ŵ	13	Slope Protection	(1) Structure ()	(2) Vegeta	tion	(3) Nothing		
n in de la	- 14	Drainage Facilities	(1) Existing ()	(2) Nothing	1	4월 2018년 3월 2018년 4일 1월 2019년 1월 2019년 4일 1월 2019년 1월 2019년 4일		
10	15	Matrix Condition	(1) Hard	(2) Soft		(3) Loose (4) Loo	se with detac	hed cabb
oo Debris Fall	16	Gully	(1) Rare	(2) Common	1997 - 1997 -	(3) Frequently		
	17	Decached Rock or cabble	(1) Nothing	(2) Support	ed Stably	(3) Supported Unst	ably	
acologicel Condition Rock Fall Del	18	Rock Name	(1) Granite (2) Diori (6) Schist (7) Slate (11) Tuffbreccie (12) (15) Conclomerate (16)	Not Lines Sandstone Masa	stone (9) (13) Shale (17) Volca	Schalstein (10) Tuff (14) Mudstone ničlasties		
Rock	19	Weathering Condition	(1) Fresh	(Z) Slight	y Yeather	ed (3) Highly Weath	ered	
5 8	20	Condition of Crack	(1) Sparse	(2) Regular		(3) Developed	<u> </u>	·····
	21	Direction of Crack	(1) Inclined to Mountain	n (% Irregul	ar inclin		to Slope	:.
50.0	22	impact to Road	(1) LOW	(2) Average	<u> </u>	(B) High		
Engs- neering Judge- Bent	23	Cause of Fall				<u></u>		
<u>⊐ ≍ ⊰ ≚</u>	24	Counter Measure		<u> </u>	19. 19. 19. 19. 19. 		1997 - 1997 -	
Sketch,	etc.					Photo No.	(1,1,1,1,1)	

APPENDIX 5.2-1 (3) CHECK TABLE OF FALL



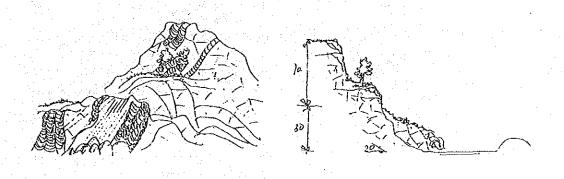
Date of Survey	Day 29	Month Oci,	Year, 9811	Surveyor	B, IWATA	
••••••••••••••••••••••••••••••••••••••						

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3

APPENDIX 5.2-1 (4) CHECK TABLE OF LANDSLIDE

					an fairte Thairte anns an Fraighte anns anns an			Sheet No	
Route		M.H (TVA - 20)	Km. Post	160.300	Hidth	<u></u>	150 M	Region	10-1
	1	Kind of Slope	(1) Cut Sloce	M	Natural Slope		n internationalise 		
L érus li de	2	Kind of Landslide	N ROCK	(2)	Talus	6	Soil		
t and	3	Size of Landslide	(1) 2,000 ^{m2} >	N/	2,000 ^{m2} ~ 5,000 ^m	2	(3) 5,000 ^{m2} <	: · ·	
0 Q	4	Date Occured	Dav		Month		Year		
Evidence	5	Traffic Interruptions Period	(1) day >	(2)	$1 day \sim 7 days$	(3)	7 days <		
Evid	6	Rainfall Intensity/ Day	(1) 100 mm >	(2)	100 ^{mm} ~ 200 ^{mm}	(3)	200 ^{mm} ~ 300 ^{inm}	(4) 300 ^{mm}	<
olitic and On	7	Existence of irre- gular surface with steps; sharp cliff and puddles	(1) Unnoticed	in	Medium	(3)	Remarkable		
Topographic Geological Condition	8	Geology	(1) Others	(2)	Sedimentary Rock	61	, Highly Heathered Sedimentary Rock or Talus or Soil	k	
	g_	Degree of Saturation	(1) Ory	(2)	<u>Vet</u>	M	Seedage	(4) Spring	l
Others Condition	10	Gradient of Slide Plane	(1) 10° >	ter	10°~20°	(3)	20° <	· ·	· · · · · ·
	11	Continuity of Slide Novement	(1) Unnoticed	ier	Medium	(3)	Remarkable		
Engineering Judgement	12	Imaoct to Road	(1) LOW	K	Average	(3)	High		
i neer Jgenu	13	Cause of Landslide				-			
5ug	14	Counter Measure							



Date of Survey	Day 29	Month Cet	Year 1984	Surveyor	P. IWATA	
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	an an an taon 1990. Ilan an an an taon 1990. An taona 1990 an an Anna an Ann			· ·	: :	
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			dia dia 1970. Ny INSEE dia mampika	·		
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· · · · ·				ана. 1911 — Ал	· · · · · · · · · · · · · · · · · · ·	

						an tahun sa		1	Sheet No.	8-67
Route	•	MH (WI-36)	Xm. Post	718.10	D	Hidth	20	M	Region	VII
n an An	1	Existence of Depo- sitional Toe	(l) Nothing		M Exis	sting				د
ris	.2	Size of Disaster	(1) 50 ^{m3} >		by 50m3	¹ ∼500 ^{m3}	(3) 500 ^{m3} ~ 2,0	000 ^{m3}	(4) 2,000) ^{(m3} <
Debris	3	Date Occured	Day		1.		Year Ewry		1	
Evidence of Flow	4	Traffic Interruption Period	(1) l day>				s (3) 7 days <	10	- 1	
ride.	5	Counter Heasure Taken	(1) Structure ()	V Remo	val of Deor	osit Materials		(3) Others	
	7	Rainfall Intensity/ Day	(1) 100 mm >			- 18 - 18 - 18 - 18 - 18 - 18 - 18 - 18	(3) 200 ^{mm} ~ 30	0 ^{.mn}	(4) 300 ^{mm}	
lon	- 8 ⁻	Average Gradient	(1) 20°>		2 200 4	4				
Existing Stream Condition	q	Area of Basin	(1) 0.24 Km ² >		2) 0.24	Km ² <				
S S S	10	Deposit on River Bed	(1) Nothing	21	2) Rare		(J) Abudance			
	11	Plant Condition	(V 50% > Occur	pancy Rate of	Bare L		n Forest (2) 50	\$ <		
ing it	12	Impact to Road	(1) Low		M Aver		(3) High			*****
ingineering Judgment	13	Cause of Disaster			 			in a star in the s	· · · · · ·	
1913 1913	14	Counter Measure			4 					
Sketci	h, ecc				in in de Geboor		Photo No.			

APPENDIX 5.2-1 (5) CHECK TABLE OF DEBRIS FLOW



	 	2 N 1 1	<u> </u>		1	and the state of the	en Maria
Date of Survey	Day	7	Month Oct	Year 1984	Surveyor	3. IWATA	

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APPENDIX 5.3-1 SUMMARY TABLE OF DISASTER

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SUMMARY TABLE OF DISASTER

Lucena ~ Atimonan Section

IVA

Region

H = Heavy M = Medium S = Small Impact to Road (by observation) Heavy rain Oct. 1984 Heavy rain 1982 Bebeng Remarks Bebeng Bebeng ı ì = Rock or Debris Fali = Debris Flow = Over Flow i = Land Slide Section M-10 2 ÷ 5 4 3 : 3 Ŧ 2 • £ 4 = Ξ Check Table Number 1-01--10 21-Ħ ŝ ဖု Ň လု η i 4 ŝ ı ı 1000 100 100 Others Impact to Road Σ S. ŝ зĽ x ŝ in. S Ņ ŝ x ŵ, ŝ ż, Σ Σ. Height: 20~70m Width: 500m. Steep slopes exist on both side. Width: 10m. Shoulder scouring inside curve. Embankment Slope (Including Natural Slope) Height: 15m. Width: 150m. Fallen rock size: 0.3~ 0.75m. Height: 15m. Width: 150m. Many rocks fall. Fallen rock size: 0.5 ~ 1.0m. Description Height: 40m. Width: 120m. Closed for a half day. Height: 100m. Width: 50m. Height: 3m. Width: 20m. Shoulder scouring Meight: 20m. Width: 80m. Open crack. Height: 25m. Width: 50m. Height: 15m. Width: 20m. Height: 15m. Width: 40m. Height: 7m. Width: 40m. Height: 12m: Width: 50m. Height: 12m. Width: 70m. Fallen rock size: 0.3m. Height: 7m. Width: 40m. Height: 15m. Width: 70m. E - S.F = Surface Failure E - D.F = Deep Failure Type of Disaster C(N)-F C-S.F E-0.F C-D.F E-0.F 5-5ц. С-Ш ч ц. С 5 5 ц С 5 5 Ľ, 5 155.700 153.900 156.000 156.000 156.700 157.100 158.000 158.500 158.900 156.600 157.600 155.100 Post 155.400 153.100 153.400 154.100 Ĕ. Cut Slope (Including Natural Slope) C - S.F = Surface failure C - D.F = Deep Failure 87.7 10 -11 -13-1 5. 12 - 13 -15 -15 -17 Spot No. ŵ o, ۍ ۱ φ ŕ. IVA-4 District/City Office Quezon I 141.280~191.322 Type of Disaster

District/City Office Searth Description Secretion Description Secretion Reservation 100-57-City Office Searth 100-100 E-0,7 Secretion 5 - +				<u>Lucena</u>	summar table of disaster ena ~ Atimonan Section			Region IVA		
IW-19. 160.100 E-D, F Skenielar securing. S - +	District/City Office	Spot No.	Km. Post	Type of Disaster	escriptio	Impact to Road	Check Table Number	Section	Remarks	
-20 160.800 L.S 1200.100 C.S.F Height: 150n. Width: 20m. S - - -21 110.100 C.S.F Height: 15n. Width: 20m. S - - - -22 170.100 C.S.F Height: 15n. Width: 20m. S - - - -23 170.600 C.S.F Height: 15n. Width: 50m. S - - - -23 170.600 C.S.F Height: 15n. Width: 50m. S - - - - -26 172.800 C.S.F Height: 150m. S -		IVA-19	160 100	E-D.F	Width: 100m. Shoulder scouring.	s		M-10	Ruping	
-21 161.000 C-5.F Herght: 15n. Width: 20n. 5 - - -22 170.150 C-5.F Herght: 15n. Width: 40n. 5 - - - -23 170.160 C-5.F Herght: 15n. Width: 50n. 5 - - - -24 170.160 C-5.F Herght: 15n. Width: 50n. 5 - - - -25 170.600 C-5.F Herght: 15n. Width: 50n. 5 - - - - - -26 172.200 E-0.F Registri 15n. Width: 50n. 5 -		-20	160.800	1.5	Height: 70m. Width: 150m. Toe of landslide reaches at ashoulder part.	Æ	S-13			
-22 170.150 C.S.F Height: Jän. Width: 40n. S 4 -23 170.600 C.F Feight: Jän. Width: 50n. S 4 * -24 170.600 C.S.F Height: Jän. Width: 50n. S * -26 170.600 C.S.F Height: Jän. Width: 50n. S * -26 172.900 C.S.F Height: Jän. Width: 50n. S * -27 176.100 C.S.F Height: Jän. Width: 50n. S * -28 176.100 C.S.F Height: Jän. Width: 60n. S * -28 177.400 C.S.F Height: Jän. Width: 60n. S -10 *		~21	161.000	C-S.F	Width:	S				
-23 170.500 C-F Height: 15m. Width: 55m. S -14 * -24 170.800 C-S.F Height: 15m. Width: 55m. S - * -25 172.900 E-0.F Reight: 15m. Width: 55m. S - * -25 172.900 E-0.F Reight: 15m. Width: 55m. S - * -26 172.900 E-0.F Reight: 15m. Width: 55m. S - * -26 172.900 E-5.F Height: 15m. Width: 55m. S - * -27 176.100 C-5.F Height: 15m. Width: 50m. S - * -28 177.400 C-5.F Height: 15m. Width: 50m. S - * * -29 177.400 C-5.F Height: 15m. Width: 50m. S - *		-22	170.150	C-S.F	Height: 10m. Width: 40m.	s				
-24 170.800 C.S.F Height: Jan, Width: S0n, S - a -25 172.500 E-D.F Äkejänt: Jän, Width: S0n, S - a -26 173.200 C.S.F Reight: Jän, Width: Jän, Jän, Jän, Width: Jän, Jän, Jän, Jän, Jän, Jän, Jän, Jän,		-23	170-600	C-F	Height: 15m. Width: 40m. Fallen rock size: 0.6m.	S	7I-	3		
-25. 172.900 E-D.F Regist: Lan, Width: 50m. S 1.5 * -26 173.200 E-D.F Regist: Lan, Width: 30m. S 1.5 * -27 176.100 C-S.F Regist: Lan, Width: 30m. S 1.6 * -28 176.100 C-S.F Reight: Lan, Width: 50m. S 1.6 * -29 177.400 C-S.F Reight: 15m. Width: 50m. S -1.6 * -30 177.700 C-F Reight: 15m. Width: 50m. S -1.6 * -31 177.700 C-F Reight: 15m. Width: 50m. S -1.6 * -31 177.800 C-S.F Reight: 15m. Width: 10m. S -1.6 * -32 177.800 C-S.F Reight: 15m. Width: 10m. S -1.2 * -32 177.800 C-S.F Reight: 15m. Width: 10m. S -1.2 * -33 177.100 C.F Reight: 15m. Width: 10m. S -1.2 * -33 176.100 C(N)-S.F Reight: 15m.		-24	170.800	C-S.F	Height: 10m. Width: 50m.	s			-	
-26 123.200 C-S.F Height: 15m. Width: 30m. S -15 " -27 176.100 C-S.F Height: 12m. Width: 150m. S -16' " -28 176.100 C-S.F Height: 12m. Width: 150m. S -16' " -29 177.400 C-S.F Height: 20m. Width: 70m. S -17' " -29 177.700 C-F Height: 15m. Width: 50m. S -16' " -30 177.700 C-F Height: 15m. Width: 40m. S -18' " -31 177.700 C-F Height: 15m. Width: 10m. S -18' " -31 177.000 C-F Height: 15m. Width: 10m. S -18' " " -32 177.000 C/F Height: 15m. Width: 10m. S -18' " <td< td=""><td></td><td>-25</td><td>172 900</td><td>E-D.F</td><td>Height: 5m. Midth: 50m. Approach of bridge. Break of riner</td><td>S</td><td></td><td>÷</td><td>T</td><td></td></td<>		-25	172 900	E-D.F	Height: 5m. Midth: 50m. Approach of bridge. Break of riner	S		÷	T	
-27 176:100 C-S:F Height: 12m. Widht: 150m. S -16' " -28 176:900 C-S:F Height: 20m. Width: 60m. S -17' " -29 177.400 C-S.F Height: 15m. Width: 50m. S -18' " -30 177.700 C-F Height: 30m. Width: 40m. S -19' " -31 177.700 C-F Height: 30m. Width: 40m. S -19' " -31 177.800 C-S.F Height: 30m. Width: 40m. S -19' " -32 177.000 C.F Height: 10m. S -19' " " -33 178.100 C(N)-S.F Only erosfon. S -20' " " " -33 176.100 C(N)-S.F Height: 15m. Width: 10m. S -20' " " " -33 176.100 C(N)-S.F Only erosfon. S -20' " " " " " " " " " " " " " " <			173.200	C-S.F		S	\$ 1 -	=	Rup ing Didang	
-28 176.900 C-S.F Height: 50m. Width: 60m. 5 -16 " -29 177.400 C-S.F Height: 20m. Width: 70m. 5 -17 " -30 177.700 C-S.F Height: 12m. Width: 40m. 5 -19 " -31 177.700 C-S.F Height: 20m. Width: 10m. 5 -19 " -31 177.800 C-S.F Height: 20m. Width: 10m. 5 -19 " -33 176.100 C(N)-S.F Height: 20m. Width: 10m. 5 - - " -33 176.100 C(N)-S.F Height: 10m. 5 - - " -34 176.200 C(N)-S.F Height: 10m. 5 - 20 " -34 176.200 C.S.F Height: 15m. Width: 70m. 5 - 20 " " -34 176.200 C.S.F Height: 10m. 5 - 20 " " " -34 176.200 C.S.F Height: 15m. Width: 70m. 5 - 20 "		-27	176.100	C-5.F	Height: 12m. Widht: 150m.	S			Ruping	
-29 177.400 C-S.F Height: 20m. Width: 70m. S -17 " -30 177.700 C-F Height: 15m. Width: 50m. S -18 " -31 177.800 C-S.F Height: 30m. Width: 40m. S -19 " -32 177.800 C-S.F Height: 20m. Width: 10m. S -19 " -32 176.100 C(N)-S.F Height: 20m. Width: 10m. S -19 " -33 176.100 C(N)-S.F Height: 10m. S - " " -33 176.100 C(N)-S.F Height: 10m. S - " " " -33 176.100 C(N)-S.F Height: 10m. S - "<		28	176.900	C-S.F	Width:	S	-16	*	16	
-30177.700C-FHeight: I5m. Width: 50m.S-18"-31177.800C-S.FHeight: 30m. Width: 40m.S-19"-32178.000C(N)-S.FOnly erosion.Nigth: 10m.S-"-33176.100C(N)-S.FOnly erosion.S-""-33176.100C(N)-S.FOnly erosion.S-""-34178.200C(N)-S.FHeight: 15m. Width: 10m.S-20"-34178.200C-S.FHeight: 15m. Width: 70m.S-20".5178.200C-S.FHeight: 15m. Width: 70m.S-20".5Embankment SlopeEmbankment Slope0.01hers0.01hers0.01hers.5Deep FailureE<-D.F		-29	177.400	C+5.F	Height: 20m. Width: 70m.	\$	-17	9		
-31177.800C-S.FHeight: 30m. Width: 40m.S-19"-32178.000C(N)-S.FOnly erosion. Nity erosion.Nity etch.S-"-33178.100C(N)-S.FHeight: 20m. Width: 10m.S"-33178.100C(N)-S.FHeight: 15m. Width: 10m.S"-34178.200C(N)-S.FHeight: 15m. Width: 70m.S-20"-34178.200C-S.FHeight: 15m. Width: 70m.S-20"FSurface FailureEmbankment Slope (Including Natural Slope)OthersC.F = Rock or Debris FallFDeep FailureE - S.F = Surface FailureD.F = Debris Flow OthersD.F = Debris Flow D.F = Dver Flow C.F = Land Slide		- 30	177.700	ي - لو د		s	89 11 1	2	E	
-32178.000 $C(N)-S.F$ Height: 20m. Width: 10m.S33175.100 $C(N)-S.F$ Only erosion.Nidth: 10m.S34178.200 $C(N)-S.F$ Height: 15m. Width: 70m.S34178.200 $C-S.F$ Height: 15m. Width: 70m.S-20"-34178.200 $C-S.F$ Height: 15m. Width: 70m.S-20"-54178.200 $C-S.F$ Height: 15m. Width: 70m.S-20"-54178.200 $C-S.F$ Height: 15m. Width: 70m.S-20"F= Surface FailureES-20""F= Deep FailureES.F= Surface Failure0.7 E = Rock or Debris FallowF= Deep FailureE-3.5 Fishter0.7 E = Surface Failure0.7 E = Surface FailureF= Deep FailureE-3.5 Fishter0.7 E = Surface Failure0.7 E = Surface FailureF= Deep FailureE-3.5 Fishter0.7 E = Surface Failure0.7 E = Surface Failure		-3I	177.800	C-5.F	Reight: 30m. Width: 40m.	· S	-19	#	¥ .	
-33 176.100 C(N)-S.F Height: 20m. Width: 10m. S - - -34 178.200 C-S.F Height: 15m. Width: 70m. S -20 " -34 178.200 C-S.F Height: 15m. Width: 70m. S -20 " -34 178.200 C-S.F Height: 15m. Width: 70m. S -20 " -50 Embankment Slope (Including Natural Slope) 0thers 0fhers F Surface Failure E S.F Surface Failure 0.F Rock or Debris Fall F Deep Failure E D.F Surface Failure 0.F Deeris Flow		-32	178.000	C(N)-S.F	Height: 20m. Width: 10m. Only erosion.	S		=	*	
-34 178.200 C-S.F Height: 15m. Width: 70m. 5 -20 " Including Matural Slope) Embankment Slope (Including Natural Slope) Others F = Surface Failure E - S.F = Surface Failure D.F = Debris Flow C.F = Deer Flow C.F = Over Flow L.S = Land Slide		- 33	176.100	C(N)-S.F	Width:		1	=	Ruping	
Including Matural Slope) Embankment Slope (Including Natural Slope) Others F = Surface Failure E - S.F = Surface Failure C.F = Rock or Debris Fall F = Deep Failure E - D.F = Deep Failure O.F = Over Flow L.S = Land Slide		134	178.200	C-5.F	Widch:	v3	-20	z	E	•
	Type of Oisaster Cut Slope (including C + S.F = Sur C + D.F = Dee	Ratural Slop Face Failure P Failure)e)	Embankment E - S E - D	Slope (Including Natural Slope) .F = Surface Failure .F = Deep Failure	0 1 0 0 1 0 1 1 1	ей и и U		<pre>Impact to Road (by observation) H = Heavy M = Medium M = Medium S = Small</pre>	

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SUMMARY TABLE OF DISASTER

Region IVA

Lucena \sim 'Atimonan Section

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SUMMARY TABLE OF DISASTER Allen ~ Calbayog Section

Region VIII

		1.4.00.00						
	Km. Post	type ut Disaster	Description	Impace to Road	Number	Section	Remarks	
	664.400	E-D.F	Height: 1 5m. Width: 300m. Riprap destroyed by big wave.	Н	5-35	91-W	1974	•
	681.700	£-D,F	Height: 4m. Width: 600m Wave runs over every typhoon.	H	- 55	æ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	683.400	C-F	Height: 25m. Width: 100.	s	1	ŧ		
	685.200	C-F	Height: 7m. Width: 10m.	S	1	д	1	
	686.600	ن- ۲ ن	Height: 15m. Width: 300m.	Ś	1	-	•	
	686.900	ي د د	Height: 30m. Width: 250m.	X	- 56	=	1	
	687.200	ц · J	Height: 25m. Width: 40m.	S	ł		1	
	627.300	E-D-F	Width: 30m. Riprap was washed away 2 times.	S		z		:
	689.200	C.F	Height: 10m. Width: 30m.	S		T	1	
	689.500	я С-Б	Height: 25m. Width: 50m.	s	-57	70	1	
	692.700	ц - -	Height: 20m. Width: 100m.	,s	1	=		
1	693.000	E-D.F	Width: 20m. Approach of bridge scouring.	s		"	1	•
	693.600	с – F	Height: 20m. Width: 30m.	s	•	a 	1	
	694.700	£-D.F	Height: 30m. Width: 10m.	£	-27-1	ž	1	
1 A	694.900	C-F	Height: 30m. Width: 30m.	s	•	=		
-15	695.800	C-S.F	Height: 10m. Width: 20m.	s	. 1			
ding Natural Slop Surface Failure Deep Failure	of Disaster Cut Slope (Including Matural Slope) C - S.F = Surface Failure C - D.F = Deep Failure	Embankment E - S E - D	Embankment Slope (Including Natural Slope) E - S.F = Surface Failure E - D.F = Deep Failure	0thers C.F D.F	s r = Rock or Debris Fall = = Debris Flow = = Over Flow	ebris Fall ow	Impact to Road (by observation) K = Heavy M = Medium S = Small	

L.S = Land Slide

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Region VIII

SUMMARY TABLE OF DISASTER

		-				· . . · ·												
	Remarks		1		I .													Impact to Road (by observation) R = Heavy S = Small
	Section	91-W	=	4		4		5		٦	3							ris Falt
	Check Table Number	S - 58	- 59	-60	1	1	-60-1	1	•			-61	-62	-62-1	-63	-63-1	-64	<pre>= Rock.or Debris Fall = Debris Flow = Over Flow = Land Sfide</pre>
	Impact to Road	×	ю	×	и	v	20 20 20	v	S	S	S	\$	X	×	æ	X		00 10 00 10 10 10 10 10 10 10 10 10 10 1
en ~ Calbayog Section	Description	Width: 150m. Snall scale of debris flow occur every year	Height: 25m. Width: 40m.	Height: 15m. Width: 30m. Shoulder scouring by seawave.	Height: 30m. Width: 150m.	Height: 30m. Width: 40m.	Height: 25m, Width: 100m. Highly weathered:	Height: 25m. Width: 70m.	Height: 25m. Width: 30m.	Height: 35m. Width: 100m.	Height: 25m. Width: 40m.	Height: 60m. Width: 240m. Wide shoulder.	Height: 50m. Nidth 360m. Narrow shoulder.	Height: 50m. Width: 240m.	Height: 40m. Width: 180m. Overbung:	Height: 35m. Width: 130m.	Height: 30m. Width: 60m.	tt Slope (Including Natural Slope) S.F = Surface Eaflure D.F = Deep Failure
Allen	Type of Disaster	0.F	C-F	E(N)-D.F	G-F	بة 1-1 1	4- 	μ L J	ير بر ن	ч С	н. -1 -0	4- 0	ъ Ч	C + F	<u>ب</u> ب ک	J.	۰ <u>۴</u>	Embarkment Slope E D.F. =
	Km. Post	698,300	699.200	701.200	702.300	702 - 400	703.800	704.100	704 - 500	704.800	705-000	705.050	705.200	705-600	708.200	708.600	708.650	
	Spot No.	VI11-16	-11	-18	-19	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	- 30	-31	Natural Slop ace Fallure Failure
	District/City Office																	Type of Disester Cut Slope (Including Natural Slope) C - S.F = Surface Failure C - D.F = Deep Failure

summary rade of Disaster Allen ~ Calbayog Section

Region VIII

-36 -34	Na Post	Type of Disaster	Description	impact to Road	Check Table Number	Section	Remarks
8 9 9 9	709.600	C-F	Height: 30m. Width: 120m. Bedding plane inclines to slope.	100 100 100 100 100 100 100 100 100 100	S-65	M-16	
46 46	717.700	C-S-F	Height: ZOm. Width: 120m. Closed for 1 day.	Σ	-66	4	
	717.800	C(N)-S.F	Height: 30m. Width: 50m.	N		-	
SE	717.850	ц. Ц.	Height: 30m. Width: 50m.	8			
-36	718.100	ц. С	Width: 20m. Small fajlures occur every year.	×	-67	=	
-37	718.500	C-F	Height: 50m. Width: 180m. Fallen rock size: 1.0m.	Σ	-68		
8 8 8	718.600	C-S.F	Height: 30m. Width: 50m.	S	•		•
9 67	721.600	С-F	Height: 25m. Width: 40m.	<i>S</i> .	-69	=	•
- 39-1	721.800	E-D.F	Height: 1.8m Width: 30m. Shoulder scouring due to seawave	3 2	-69-1	3	
				-			
Type of Disaster Cut Slope (Including Natural Slope) C - S.F = Surface Failure C - D.F = Deep Failure	be)	Embankment E - S E - D	tt Slope (Inc)uding Natural Slope) S.F ≈ Surface Failure D.F ≈ Deep Failure	0 0 0 0 0 0 0 7 0 7 7	s s f = Rock or Debris Fall f = Over Flow F = Over Flow	tbris Fall	Impact to Road (by observation) H = Heavy M = Medium S = Small

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·	-	Check Table
•.		Impact to Brad
SUMWARY TABLE OF DISASTER	Naguilian Road	Description

	Remarks		Norming Aring	Norming Anding Aring	Norming										Aring Anding			Impact to Road (by observation)	H = Heavy S = Medium Sneil
Region	Section	8-3	3	8	a	*	#	4	Ħ	ŧ	E								Rock or Debris Fall Debris Flow Over Flow Land Slide
	Check Table Number	•	3-84	-85	-86		-86-1	1.		-86-2			-86-3	-86-4	-87		8) (a 1a 6a 44
	Impact to Road	S	S	S	s	S	£	S	S	Σ	S	Ø	×	3 2	S	s	×	Others	<u>т</u> пту 1907
<u>Naguilian Road</u>	Description	Height: 8m. Width: 10m.	Height: 15m. Width: 30m.	Height: 10 ~15m. Widthi 60m.	Height: 10m. Width: 200m.	Height: 10m. Width: 15m.	Height: 8m. Width: 30m.	Height: Sm. Width: 10m.	Height: Sm. Width: IOm.	Height: 27m. Width: 30m.	Height: 2m. Width: 10m.	Height: 10m. Width: 15m.	Height: 15m. Width: 35m.	Height: 5m. Width: 6m.	Height: 15m. Width: 20m. Fallen rocks size: 0.4m. With developed cracks	Height: 50m. Width: 20m.	Height: 45m. Width: 50m.	Slope (Including Natural Slope)	S.F = Surface Filture D.F = Deep Failure
	Type of Disaster	C-StF	C-S.F	CS.F	¥ ع	C-S.F	E-0.F	C-S.F	C-S.F	с-D.F	E-S.F	C-S.F	E-D.F	E-D.F	ч Ч	а. С	с-в С	Embankment	ມ ພ ບ ບ ບ
	Km. Post	263.400	264.100	273.000	273.900	276-100	276.500	277.700	279.800	281.500	282.200	283.100	286.600	287.800	288.300	288.500	288.700	(a)	
	Spot No.	1-0-NI	1 1 2	-2	ę.	-3-1	-3-2	- 3-3	4	-4-1	-4-2	-4-3	-4-4	-4-5	-2 -	9	4	Katural Slop	 Surface Failure Deep Failure
	District/City Office	ta Union 259.385~281.605				• • •	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· .	Berguet 251.640~299.129							Type of Disaster Cut Stope (Including Natural Stope)	C - S.F. = Surf C - D.F. = Deep

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SUMMARY TABLE OF DISASTER

Naguilian Road

Region

On-going repar by City Eng'rs. Office Nitang Osang, Nitang Norming, Aring On-going repair by City Eng'rs. Office H = Heavy M = Medium S = Small 0n-going repair by City Eng'rs. Office Impact to Road (by observation) Norming, Aring Norming, Aring Oseng, Nitang Osang, Mitang Remarks • × # \$ 2 2 Section Rock or Debris Fall Debris Flow Over Flow . e-- 9 4 2 = z ų a. : z Ŧ ¥ * Check Table Number -95-2 -94-2 -94-1 န်းရ B-94 i. Fi . L 1 ١. 1 . 000-1 ГГГГ ППК || ГССС Others Impact to Road x in Ś w S ŝ S ò ŝ ŝ x, E, Embankment Slope (Including Natural Slope) Height: 25m. Width: 10.50m. Description Height: 7m ... Width: 500m. Height: 25m. Width: 80m. Height: 10m Width: 30m. Height: 30m. Width: 50m. Width: 70m. Height: 15m. Width: 70m. Height: 20m. Width: 11m. Height: 10m. Width: 30m. Height: 3m. Width: 10m. Height: 3m. Width: 10m. Height: 5m. Width: 7m. E - S.F = Surface Failure E - 0.F = Deep Failure Height: 20m. E-O F Type of Disaster п-S-п в-D-Е н. S-д C-'S F E-D.F C-S-F 4-5 -5 5 ц. С 5 5 302.200 Post 302.500 301.600 303, 90.0 304 000 299.600 302.450 303.800 304.500 299.100 301.000 301,000 Ě Cut Slope (Including Natural Slope) C - S.F = Surface Failure C - D.F = Deep Failure -23-1 -22-1 -22-2 -19-1 -19-2 Spot No. 23 **11-17** 8 22-ដ -55 61-District/City Office Troe of Disaster Baguio City 299.129~

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Land Slide