

社会開発調査部報告書

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

No. 32

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REPUBLIC OF THE PHILIPPINES

**THE FEASIBILITY STUDY
ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(Sta. Rita, Plaridel - San Jose Section)**

FINAL REPORT

APPENDIX

NOVEMBER 1999

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**KATAHIRA & ENGINEERS INTERNATIONAL
YACHIYO ENGINEERING CO.,LTD.**

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APPENDIX

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APPENDIX 2

- **2.2-1 Historical Performance of GRDP By Industrial Origin**

APPENDIX 2.2-1 HISTORICAL PERFORMANCE OF GRDP BY INDUSTRIAL ORIGIN AT CONSTANT 1985 PRICES

Unit: Million Pesos at Constant 1985 Prices

Region	1987											1987											Total
	Agri. & Forestry	Mining & Quarrying	Manu- facturing	Const- ruction	Elec. Gas & Water	Industria l Sector	Service Sector	Total	Agri. & Forestry	Mining & Quarrying	Manu- facturing	Const- ruction	Elec. Gas & Water	Industria l Sector	Service Sector	Total							
3 Central Luzon	12,944	1,324	17,241	3,265	1,747	23,571	20,945	57,460	19,180	418	27,500	7,476	2,072	38,377	29,222	86,779							
NCR Metro Manila	0	0	63,867	12,513	3,846	80,236	100,383	180,609	3,322	2,022	7,194	1,003	11,342	11,342	100,383								
CAR Cordillera Administrative	7,830	303	1,060	1,195	171	2,679	7,765	18,294	11,633	365	1,705	2,380	209	4,850	10,728								
1 Ilocos Region	5,811	43	773	795	155	1,766	4,411	13,088	9,793	169	701	1,094	340	2,497	5,101								
2 Cagayan Valley	27,052	743	26,813	4,189	4,272	35,024	27,902	30,978	36,514	593	43,471	9,593	7,440	61,077	42,654								
4 Southern Tagalog	8,070	421	786	1,257	1,438	3,602	7,491	16,913	9,466	865	356	2,117	2,376	5,664	19,702								
5 Bicol Region	16,046	694	8,102	1,283	437	10,586	19,277	44,908	19,800	1,676	9,879	2,382	1,078	16,049	28,110								
6 Western Visayas	5,834	2,559	8,601	1,564	819	13,653	20,275	39,687	9,013	661	11,934	3,889	1,751	19,235	32,399								
7 Central Visayas	6,209	54	3,597	735	326	4,712	5,254	16,175	9,479	117	5,021	1,344	516	7,098	7,077								
8 Eastern Visayas	10,087	122	1,835	732	138	2,827	6,277	18,191	11,564	496	2,176	1,418	236	4,076	7,531								
9 Western Mindanao	14,073	376	6,987	917	762	9,042	13,286	34,381	15,270	689	7,751	2,435	1,285	12,140	16,890								
10 Northern Mindanao	21,807	1,950	7,983	1,459	165	11,558	19,019	48,384	27,320	2,990	9,092	3,089	240	15,370	21,886								
11 Southern Mindanao	11,047	34	5,227	1,190	811	7,332	5,214	23,693	6,402	3	6,604	1,650	959	9,236	6,406								
12 Autonomous Region of ARMM Mindanao	150,414	11,232	154,604	31,742	15,811	213,389	253,121	616,924	84,713	10,338	223,672	57,322	29,357	320,889	387,616								
Philippines																883,018							

Source: 1. Philippine Statistical Yearbook, 1988, NSCB

SHARE OF REGIONAL ECONOMIC OUTPUT BY INDUSTRIAL ORIGIN

Region	1987											1987											Total
	Agri. & Forestry	Mining & Quarrying	Manu- facturing	Const- ruction	Elec. Gas & Water	Industria l Sector	Service Sector	Total	Agri. & Forestry	Mining & Quarrying	Manu- facturing	Const- ruction	Elec. Gas & Water	Industria l Sector	Service Sector	Total							
3 Central Luzon	8.61	11.79	77.15	10.29	17.07	11.05	27.27	9.97	10.92	4.14	12.29	13.04	10.12	11.97	7.94	9.72							
NCR Metro Manila	0.00	0.00	41.31	39.42	24.32	37.60	39.66	29.26	0.00	0.00	39.94	29.55	27.52	35.66	47.56	30.85							
CAR Cordillera Administrative	1.70	23.15	1.34	2.11	4.68	2.86	1.06	1.84	1.80	19.57	3.72	1.75	4.50	3.60	1.16	7.18							
1 Ilocos Region	3.21	2.70	0.89	3.76	0.77	1.26	3.08	2.97	6.30	5.38	0.76	4.15	0.71	1.51	2.77	3.05							
2 Cagayan Valley	4.39	0.38	0.50	2.50	0.98	0.83	1.74	2.12	5.30	1.57	0.31	1.87	1.16	0.72	1.57	2.04							
4 Southern Tagalog	17.99	6.62	17.34	13.20	27.06	16.89	11.07	14.75	19.23	5.74	19.44	16.81	25.34	15.03	11.00	15.59							
5 Bicol Region	5.23	3.75	0.16	3.96	0.99	1.59	2.96	3.07	5.09	8.37	0.16	3.69	7.92	1.77	2.76	2.89							
6 Western Visayas	10.67	6.18	5.30	3.96	2.76	4.96	7.22	7.28	10.72	16.21	4.44	4.16	3.50	4.68	7.25	7.05							
7 Central Visayas	3.88	22.87	5.56	4.93	5.18	6.35	8.07	6.43	4.34	5.39	5.34	6.78	5.96	5.89	6.36	6.57							
8 Eastern Visayas	4.13	0.48	2.33	2.32	2.06	2.21	2.08	2.62	3.51	1.13	2.24	2.34	2.10	2.21	1.83	2.31							
9 Western Mindanao	6.74	1.09	1.19	2.31	0.87	1.32	2.46	3.11	6.26	1.90	0.97	2.47	0.80	1.28	1.94	2.39							
10 Northern Mindanao	9.26	3.35	4.52	2.69	4.92	4.24	4.45	5.57	8.27	5.47	3.47	4.23	4.38	3.79	4.16	4.96							
11 Southern Mindanao	14.50	17.36	5.16	4.69	1.05	5.93	7.44	11.55	23.17	4.29	2.95	2.90	3.30	2.86	1.65	2.69							
12 Autonomous Region of ARMM Mindanao	7.34	0.30	3.43	3.75	5.13	3.44	2.06	3.82	4.56	0.03	2.95	2.90	3.30	2.86	1.65	2.69							
Philippines	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00							

Source: 1. Philippine Statistical Yearbook, 1988, NSCB

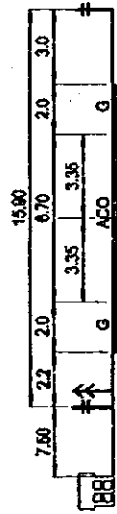
INDUSTRIAL STRUCTURE BY REGION

Region	1987							1997							Total	Increase of Share (%)								
	Agr. & Forestry	Mining & Quarrying	Manu- facturing	Const- ruction	Elec. Gas & Water	Industrial Sector	Service Sector	Total	Agr. & Forestry	Mining & Quarrying	Manu- facturing	Const- ruction	Elec. Gas & Water	Industrial Sector			Service Sector	Total						
3	22.53	2.30	30.01	5.08	3.03	41.02	36.45	100.00	22.10	0.49	31.00	8.61	3.43	44.22	33.67	100.00	-0.42	-1.81	1.68	2.93	0.40	3.20	-2.78	
NCR	0.00	0.00	35.36	6.93	2.13	44.42	55.58	100.00	0.00	0.00	32.43	6.15	7.93	41.52	58.48	100.00		-2.93	-0.76	0.00	0.00	2.90	2.90	
CAR	22.54	22.92	19.27	5.90	6.00	53.89	23.58	100.00	17.09	10.40	37.00	5.15	6.00	59.35	23.55	100.00	-5.45	-17.52	18.73	-0.74	0.00	5.48	-0.03	
1	42.80	1.66	5.79	6.53	0.66	14.54	42.55	100.00	42.75	7.04	6.27	8.75	0.77	17.82	39.43	100.00	-0.05	0.39	0.47	2.21	0.11	3.18	-3.13	
2	52.80	0.33	5.91	5.07	1.18	33.49	31.70	100.00	51.83	0.88	3.85	6.01	1.87	17.63	33.54	100.00	1.03	0.56	-2.05	-0.05	0.68	-0.87	-0.15	
4	29.73	0.82	29.47	4.60	4.70	35.60	30.67	100.00	25.51	0.43	31.23	6.84	5.35	43.84	30.64	100.00	-4.22	-0.39	1.76	7.24	0.64	4.25	-0.03	
5	42.40	2.20	1.51	6.65	7.60	17.99	35.61	100.00	36.50	3.30	1.28	8.21	9.03	21.98	41.63	100.00	-5.91	1.13	-0.13	1.57	1.42	3.99	1.92	
6	35.73	1.55	18.24	2.81	0.97	23.57	40.70	100.00	31.47	2.65	15.78	3.79	1.63	23.85	44.67	100.00	-4.26	1.12	-2.46	0.97	0.55	0.29	3.97	
7	14.71	6.48	21.69	3.84	2.06	34.17	51.32	100.00	13.66	1.13	20.25	5.63	2.89	31.09	55.24	100.00	-5.05	-5.30	-1.34	2.69	0.92	-3.08	-4.12	
8	30.39	0.31	22.24	4.54	2.02	29.13	32.48	100.00	31.37	0.57	24.31	6.51	2.98	34.37	34.76	100.00	-7.02	0.23	2.07	1.96	0.97	5.23	1.76	
9	53.55	0.64	9.85	3.81	0.72	14.73	32.71	100.00	50.02	0.95	9.41	6.13	1.03	17.41	32.67	100.00	-2.65	0.21	-0.15	2.32	0.30	2.68	-0.14	
10	40.93	1.09	20.32	2.67	2.22	26.30	37.77	100.00	34.46	1.51	17.49	5.90	2.80	27.40	38.12	100.00	-6.45	0.42	-2.83	2.83	0.68	1.10	-3.35	
11	45.07	4.03	16.50	3.02	0.34	23.69	31.04	100.00	36.42	4.08	16.35	5.27	0.49	26.23	37.35	100.00	-8.65	0.05	-0.11	2.25	0.15	2.34	6.31	
12	46.82	0.14	22.45	5.04	3.44	31.08	22.10	100.00	34.84	0.01	27.47	6.00	4.03	38.41	26.54	100.00	-11.88	-0.13	-5.05	1.95	0.59	7.34	4.54	
ARMM Muslim Mindanao									57.84	0.00	3.93	6.93	5.72	16.28	25.88	100.00								
Philippines	24.38	1.82	25.06	5.15	2.56	34.59	41.03	100.00	20.88	1.16	15.05	6.42	3.29	35.91	43.41	100.00	-3.70	-0.66	-0.01	1.27	0.72	1.32	2.38	

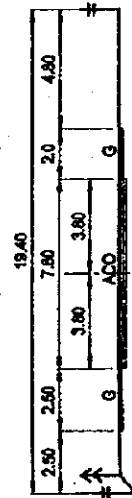
APPENDIX 3

- **3.1-1 Typical Cross-section of Existing Highway and List of Intersections**

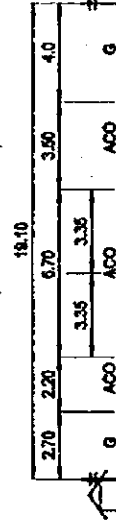
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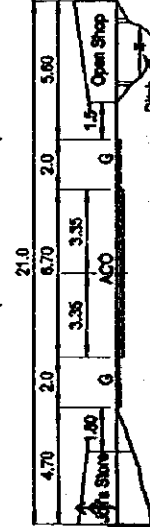
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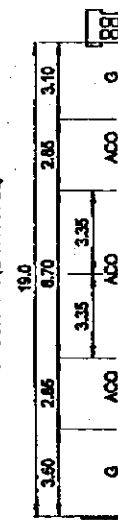
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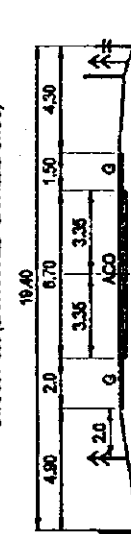
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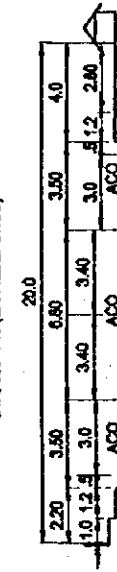
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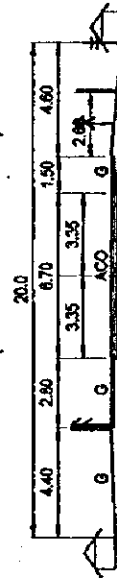
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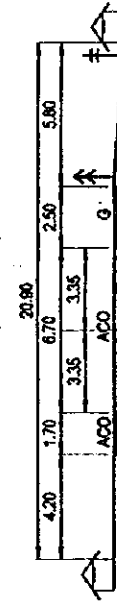
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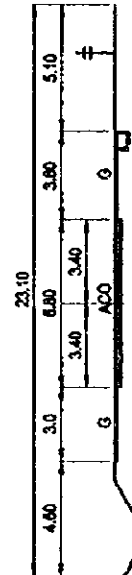
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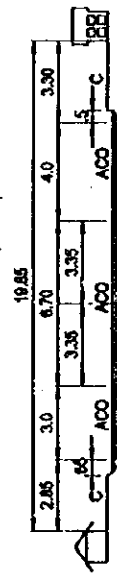
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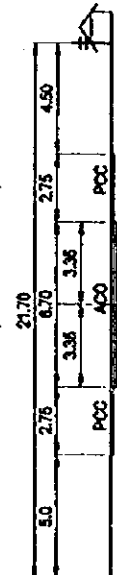
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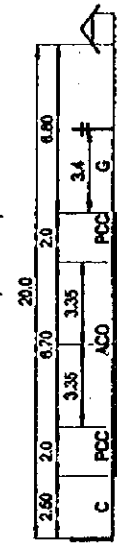
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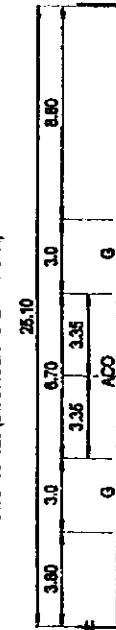
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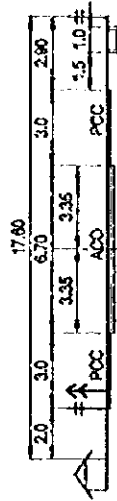
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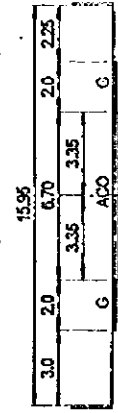
STA. 108+620 (STA. ROSA - CABANATUAN)



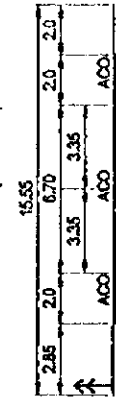
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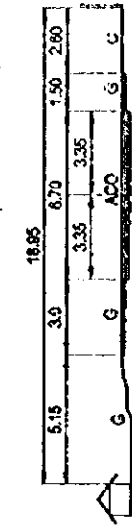
STA. 125+680 (CABANATUAN - TALAVERA)



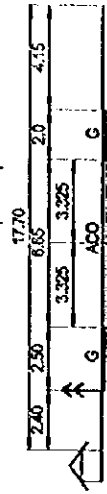
STA. 129+100 (TALAVERA)



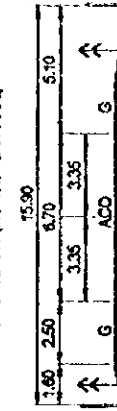
STA. 138+130 (TALAVERA - MUÑOZ)



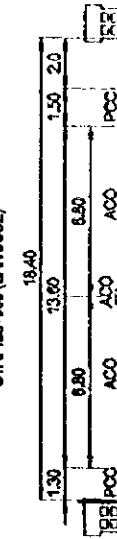
STA. 145+700 (MUÑOZ)



STA. 152+660 (MUÑOZ - SAN JOSE)



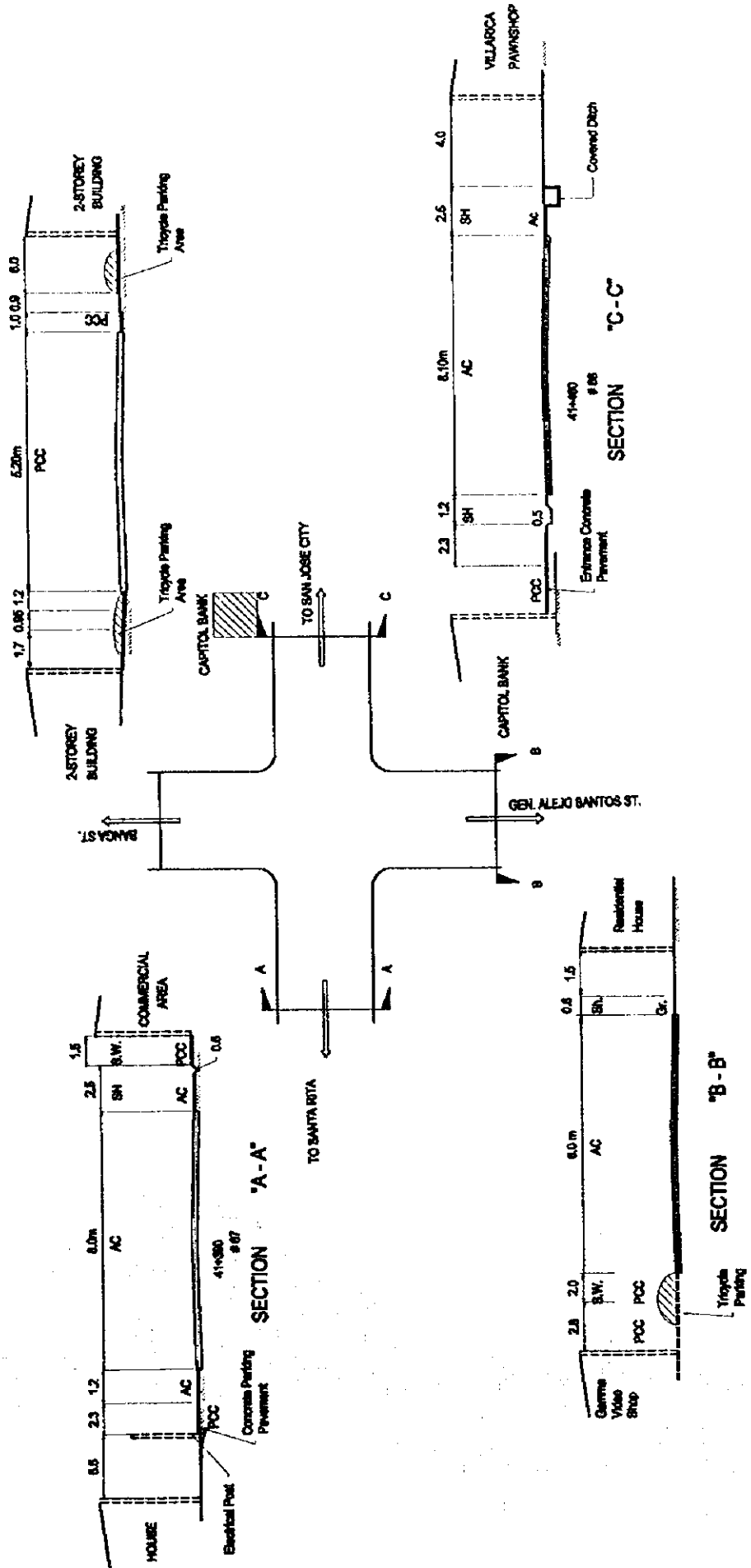
STA. 159+960 (SAN JOSE)



Typical Cross Section of Existing Highways

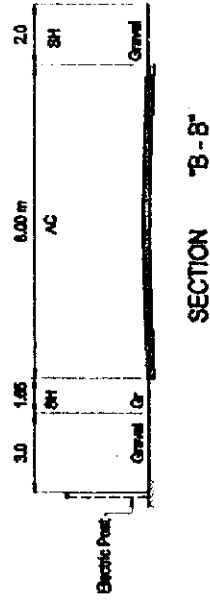
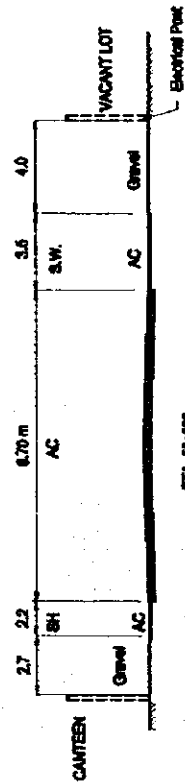
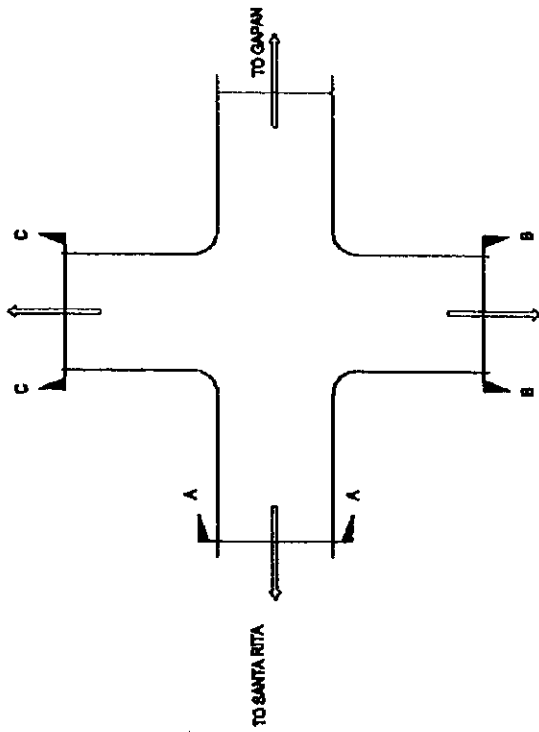
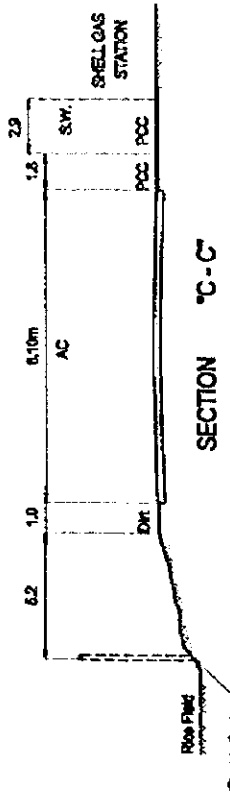
LIST OF INTERSECTIONS SURVEYED ALONG THE PAN-PHILIPPINE HIGHWAY
(Sta. Rita, Plaridel - San Jose Section)

No. of Intersection	Major Intersection Surveyed	Station	City / Town	Twelve (12) Major Intersection Selected	Eight (8) Intersection Traffic Surveyed and Analyzed
1	Plaridel Bypass	40+150	Plaridel		
2	Banga St /Gen. A. Santos	41+430	Plaridel	O	O
3	Pulilan / Baliuag Intersection	42+100	Pulilan		
4	Pulilan Intersection	42+306	Pulilan		
5	Pulilan/Baliuag Intersection	43+090	Pulilan		
6	Brgy. Concepcion Intersection	48+720	Baliuag		
7	Baliuag Intersection	50+840	Baliuag	O	O
8	San Rafael / Baliuag Intersection	53+400	San Rafael		
9	Cruz Na Daan, San Rafael	59+780	San Rafael	O	
10	Viudez St. Intersection	65+720	San Ildefonso	O	
11	San Ildefonso Intersection	66+000	San Ildefonso		
12	San Miguel Intersection	72+880	San Miguel	O	O
13	San Miguel Intersection	76+160	San Miguel		
14	Gapan Intersection	93+480	Gapan	O	O
15	Sta. Rosa Intersection	107+050	Sta. Rosa	O	O
16	Cabanatuan City Hall Intersection	112+430	Cabanatuan City		
17	Jct. Cabanatuan Proper Int.	113+750	Cabanatuan City	O	O
18	Sanciango Intersection	114+200	Cabanatuan City		
19	Paco Roman Intersection	114+350	Cabanatuan City		
20	Cabanatuan Intersection	115+220	Cabanatuan City		
21	Gen. Tinio Intersection	115+590	Cabanatuan City		
22	Quimson Intersection	115+800	Cabanatuan City		
23	Burgos Avenue Intersection	115+980	Cabanatuan City		
24	Cabanatuan/Baler Intersection	116+ 100	Cabanatuan City	O	O
25	Talavera Intersection	129+100	Talavera		
26	Talavera Intersection	129+700	Talavera	O	
27	Talavera Intersection	130+300	Talavera		
28	Baloc, Sto. Domingo Intersection	138+000	Sto. Domingo		
29	Intersection to Munoz Town Proper	145+450	Munoz		
30	Intersection to Munoz Town Proper	145+650	Munoz		
31	Munoz Intersection	146+410	Munoz	O	
32	San Jose City/San Roque St. Int.	158+200	San Jose City		
33	San Jose City Hall Intersection	158+900	San Jose City		
34	San Jose City / Pangasinan Int.	159+089	San Jose City	O	O
35	Rizal St. Intersection	159+280	San Jose City		

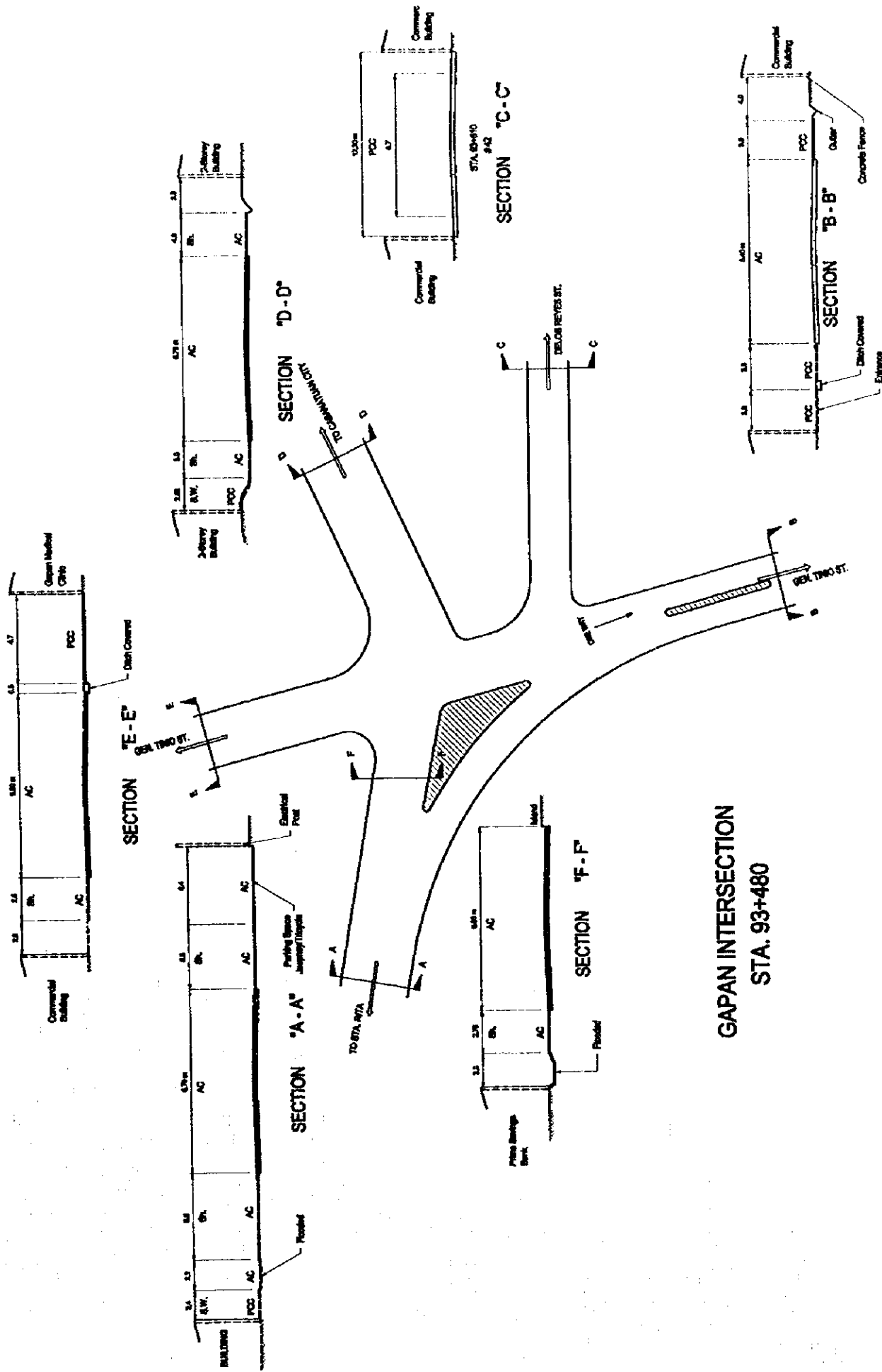


BANGA ST. / GEN. ALEJO SANTOS ST. INTERSECTION (PLARIDEL)

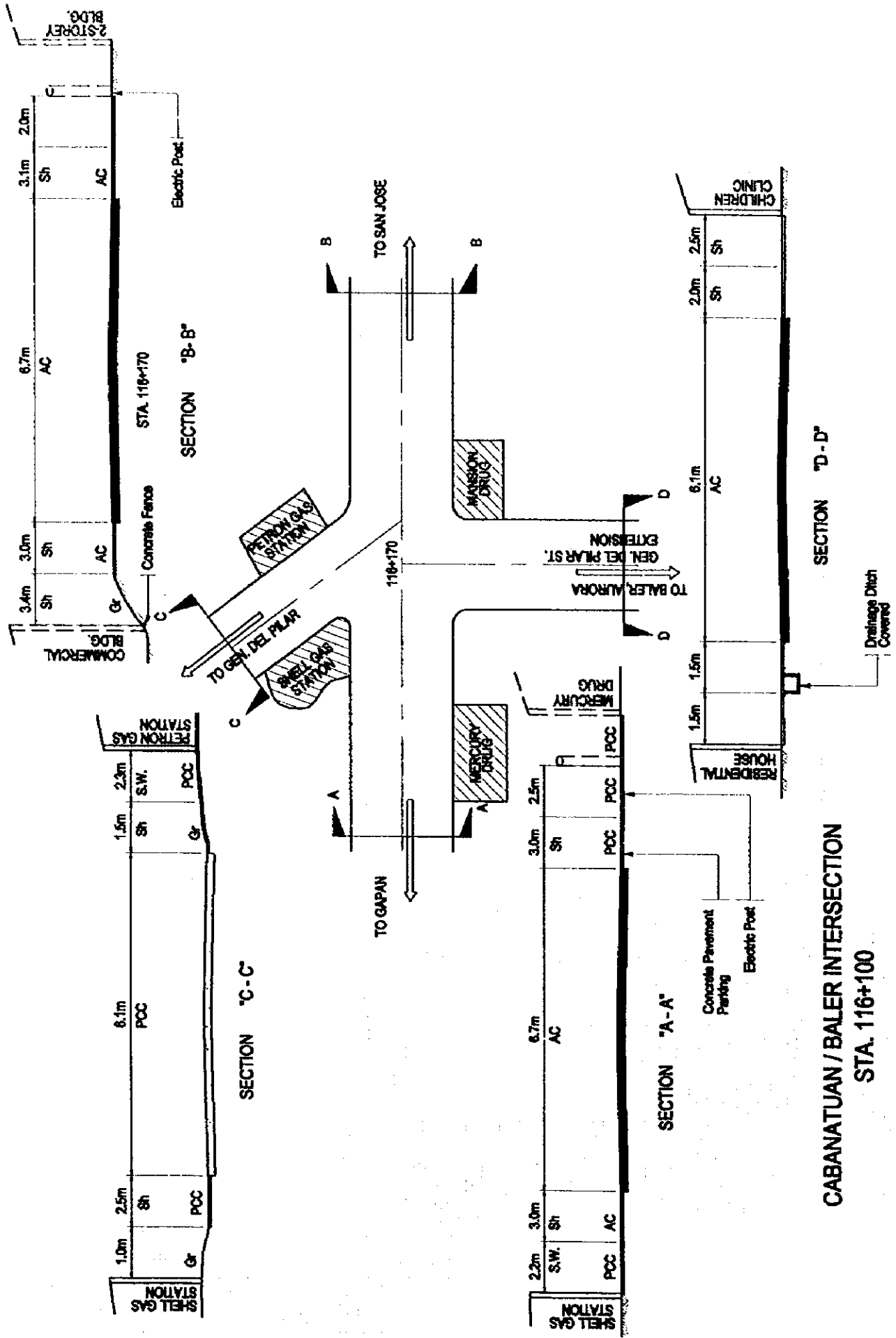
STA. 41 + 430



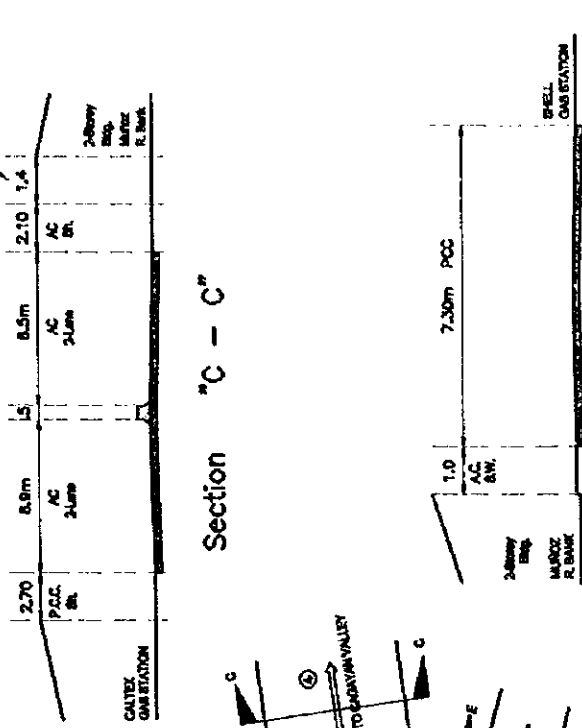
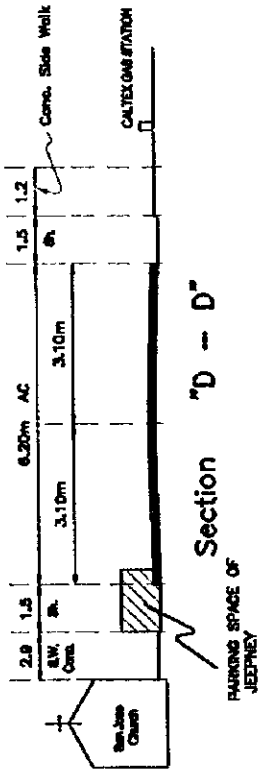
BALIUG SECTION
STA. 50+840



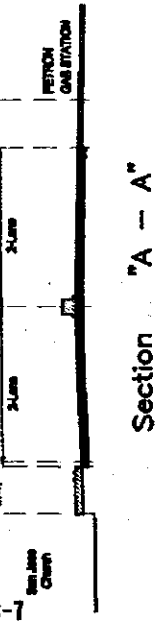
**GAPAN INTERSECTION
STA. 93+480**



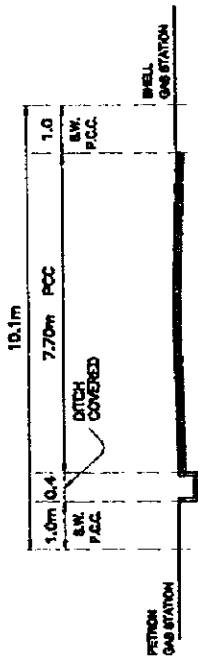
**CABANATUAN / BALER INTERSECTION
STA. 116+100**



Section "E - E"

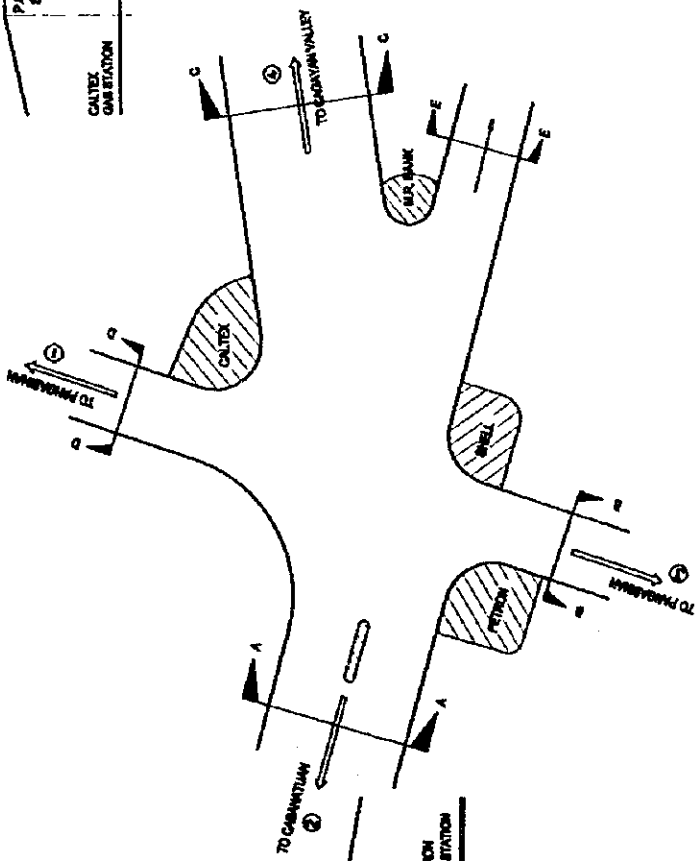


Section "B - B"



Section "E - E"

SAN JOSE CITY
 MAIN INTERSECTION
 STA. 159+089



APPENDIX 4

- **4.1-1 Field Traffic Survey Formats**
- **4.2-1 Traffic Survey Results (AADT)**
- **4.3-1 Intersection Traffic**
- **4.4-1 Traffic Zones**
- **4.4-2 Link Network**
- **4.4-3 Integrated OD Matrix**
- **4.6-1 Axle Load Distribution Data**
- **4.7-1 Level of Service Analysis**

APPENDIX 4.1-1 FIELD TRAFFIC SURVEY FORMATS

THE FEASIBILITY STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY
(STA. RITA, PLARIDEL - SAN JOSE SECTION)

TRAFFIC COUNT SURVEY SHEET

STATION NO :		
DATE :	HOUR FROM :	HOUR TO :
WEATHER :		RECORDED BY:

SUB TOTAL	FROM _____ TO _____	VEHICLE TYPE	FROM _____ TO _____	SUB TOTAL	TOTAL
		1 CAR/TAXI JEEP			
		2 PASSENGER JEEPNEY			
		3 CARGO/JEEPNEY PICK-UP/VAN			
		4 MINI BUS			
		5 LARGE BUS			
		6 TRUCK 2 - AXLE			
		7 TRUCK 3 - AXLE			
		8 TRUCK 4 OR MORE AXLE			
		SUB - TOTAL			
		9 MOTOR TRICYCLE			
		10 MOTOR CYCLE			
		11 SPECIAL			
		TOTAL			

THE FEASIBILITY STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY
(STA. RITA, PLARIDEL - SAN JOSE SECTION)
O D INTERVIEW FIELD SHEET

STA. NO. _____ DATE _____ HOUR _____ INTERVIEWER _____
DIRECTION: _____ FROM: _____ TO: _____

I. VEHICLE TYPE	<input type="checkbox"/> 1. CAR/TAXI/JEEP <input type="checkbox"/> 2. JEEPNEY <input type="checkbox"/> 3. PICK-UP/VAN <input type="checkbox"/> 4. MINI-BUS (< 30 SEATS) <input type="checkbox"/> 5. LARGE BUS (> 30 SEATS)	<input type="checkbox"/> 6. TRUCK 2-AXLE <input type="checkbox"/> 7. TRUCK 3-AXLE <input type="checkbox"/> 8. TRUCK 4-AXLE OR MORE AXLES <input type="checkbox"/> 9. MOTOR TRICYCLE <input type="checkbox"/> 10. MOTOR CYCLE	<input type="checkbox"/>
II. TYPE OF FUEL	<input type="checkbox"/> 1. GASOLINE	<input type="checkbox"/> 2. DIESEL	<input type="checkbox"/>
III. ORIGIN	PROVINCE _____ CITY / MUNICIPALITY _____ BARANGAY _____		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
IV. DESTINATION	PROVINCE _____ CITY / MUNICIPALITY _____ BARANGAY _____		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
V. PURPOSE OF TRIP (ONLY FOR CAR, JEEP)			
<input type="checkbox"/> 1. TO / FROM WORK <input type="checkbox"/> 2. TO / FROM SCHOOL <input type="checkbox"/> 3. WORK / BUSINESS <input type="checkbox"/> 4. TOURISM <input type="checkbox"/> 5. PRIVATE <input type="checkbox"/>			
VI. NUMBER OF PERSONS	(INCLUDING DRIVER AND CONDUCTOR (S))		<input type="checkbox"/> <input type="checkbox"/>
VII. SEAT CAPACITY	(ONLY FOR BUS, JEEPNEY)		<input type="checkbox"/> <input type="checkbox"/>
VIII. COMMODITY TYPE / QUANTITY	TYPE 1 _____ TYPE 2 _____ TYPE 3 _____		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
IX. COMMODITY WEIGHT	TYPE 1 _____ KGS TYPE 2 _____ KGS TYPE 3 _____ KGS		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
X. TOTAL COMMODITY WEIGHT			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
XI. NET LOAD CAPACITY			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

O D INTERVIEW FIELD SHEET

STA. NO. _____ DATE _____ HOUR _____ INTERVIEWER _____
DIRECTION: _____ FROM: _____ TO: _____

I. VEHICLE TYPE	<input type="checkbox"/> 1. CAR/TAXI/JEEP <input type="checkbox"/> 2. JEEPNEY <input type="checkbox"/> 3. PICK-UP/VAN <input type="checkbox"/> 4. MINI-BUS (< 30 SEATS) <input type="checkbox"/> 5. LARGE BUS (> 30 SEATS)	<input type="checkbox"/> 6. TRUCK 2-AXLE <input type="checkbox"/> 7. TRUCK 3-AXLE <input type="checkbox"/> 8. TRUCK 4-AXLE OR MORE AXLES <input type="checkbox"/> 9. MOTOR TRICYCLE <input type="checkbox"/> 10. MOTOR CYCLE	<input type="checkbox"/>
II. TYPE OF FUEL	<input type="checkbox"/> 1. GASOLINE	<input type="checkbox"/> 2. DIESEL	<input type="checkbox"/>
III. ORIGIN	PROVINCE _____ CITY / MUNICIPALITY _____ BARANGAY _____		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
IV. DESTINATION	PROVINCE _____ CITY / MUNICIPALITY _____ BARANGAY _____		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
V. PURPOSE OF TRIP (ONLY FOR CAR, JEEP)			
<input type="checkbox"/> 1. TO / FROM WORK <input type="checkbox"/> 2. TO / FROM SCHOOL <input type="checkbox"/> 3. WORK / BUSINESS <input type="checkbox"/> 4. TOURISM <input type="checkbox"/> 5. PRIVATE <input type="checkbox"/>			
VI. NUMBER OF PERSONS	(INCLUDING DRIVER AND CONDUCTOR (S))		<input type="checkbox"/> <input type="checkbox"/>
VII. SEAT CAPACITY	(ONLY FOR BUS, JEEPNEY)		<input type="checkbox"/> <input type="checkbox"/>
VIII. COMMODITY TYPE / QUANTITY	TYPE 1 _____ TYPE 2 _____ TYPE 3 _____		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
IX. COMMODITY WEIGHT	TYPE 1 _____ KGS TYPE 2 _____ KGS TYPE 3 _____ KGS		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
X. TOTAL COMMODITY WEIGHT			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
XI. NET LOAD CAPACITY			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**THE FEASIBILITY STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY
(STA. RITA, PLARIDEL - SAN JOSE SECTION)**

BUS / JEEPNEY PASSENGER O-D SURVEY FIELD SHEET

STATION NO. _____

DATE: _____

INTERVIEWER: _____

LOCATION: Km. _____

NAME OF ROAD/SECTION: _____

1. STATION CODE:				TRIP PURPOSE
2. HOUR				1 TO / FROM WORK
3. DIRECTION:				2 TO / FROM SCHOOL
4. VEHICLE TYPE:	<input type="checkbox"/>	1. BIG BUS (>29 SEATS)		3 AT WORK / BUSINESS
	<input type="checkbox"/>	2. MINIBUS (<30 SEATS)		4 TOURISM
	<input type="checkbox"/>	3. JEEPNEY		5 PRIVATE
ORIGIN			DESTINATION	
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20
PROVINCE :			PROVINCE :	14
CITY/MUNICIPALITY :			CITY/MUNICIPALITY :	16
BARANGAY :			BARANGAY :	18
				20

**THE FEASIBILITY STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY
(STA. RITA, PLARIDEL - SAN JOSE SECTION)
AXLE LOAD SURVEY**

STATION NO: _____ DATE: _____ INTERVIEWER: _____

DIRECTION NO: FROM: _____ TO: _____

1. HOUR		1		
2. VEHICLE TYPE		<input type="checkbox"/> 4. BUS <input type="checkbox"/> 5. TRUCK 11 <input type="checkbox"/> 6. TRUCK 12		
		<input type="checkbox"/> 7. TRUCK - TRAILER 11 - 11 <input type="checkbox"/> 8. TRUCK - TRAILER 11 - 12 <input type="checkbox"/> 9. TRUCK - TRAILER 12 - 11 <input type="checkbox"/> 10. TRUCK - TRAILER 12 - 12		
3. COMMODITY TYPE		3		
4. TOTAL COMMODITY WEIGHT _____ KGS		5		
L I C E N S E D C A P A C I T Y (5)	SEAT CAPACITY _____ SEATS		7	
	LOAD CAPACITY	MOTOR VEHICLE _____ KGS.	12	
		TRAILER _____ KGS.	14 18	
	GROSS VEHICLE WEIGHT	MOTOR VEHICLE _____ KGS.	19 23	
		TRAILER _____ KGS.	24 28	
A X L E W E I G H T (5)	MOTOR VEHICLE	LEFT WHEEL	RIGHT WHEEL	
		1st Axle _____ KGS.	1st Axle _____ KGS.	
		2nd Axle _____ KGS.	2nd Axle _____ KGS.	
	3rd Axle _____ KGS.	3rd Axle _____ KGS.	29 33	
	TRAILER	1st Axle _____ KGS.	1st Axle _____ KGS.	34 38
		2nd Axle _____ KGS.	2nd Axle _____ KGS.	39 43
3rd Axle _____ KGS.		3rd Axle _____ KGS.	44 48	
		49 53		
		54 58		
		59 63		

APPENDIX 4.2-1 TRAFFIC SURVEY RESULTS (AADT)

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM Sta. Rita, Plaridel - San Jose Section MANUAL TRAFFIC CLASSIFICATION COUNT

Sta. No. : 1

Date of Survey : Nov. 23 & 24, 1998

Road Name : BRGY. BANGA 1ST

Day : Monday & Tuesday

Location : TABANG, PLARIDEL

Vehicle Type	Day	12 Hr. COUNT	24 Hr. ADJ.	24 Hr. EXPANDED	Daily Factor	ADT	Seasonal Factor	AADT
Car/Taxi/Jeep	1	5203	1.34	6972	0.94	6554		
	2	4766	1.34	6386	0.93	5939	6247	0.98
Pick-Up/Vans (Cargo Jeepney)	1	3471	1.34	4651	0.94	4372		
	2	3370	1.34	4516	0.93	4200	4266	0.98
Jeepney	1	2277	1.14	2596	0.83	2234		
	2	2204	1.14	2513	0.74	1859	2072	1.15
Mini Bus	1	0	0.00	0	0.00	0		
	2	0	0.00	0	0.00	0	0	0.00
Large Bus	1	863	1.34	1156	0.81	937		
	2	771	1.34	1033	0.84	868	902	1.25
Truck 2-Axle	1	1180	1.32	1558	0.89	1386		
	2	1166	1.32	1539	1.21	1862	1624	1.14
Truck 3-Axle	1	557	1.32	735	0.89	654		
	2	600	1.32	792	1.21	958	806	1.14
Truck 4-or more Axle	1	125	1.33	166	1.08	180		
	2	102	1.33	136	1.64	222	201	1.03
SUB-TOTAL (AADT1)	1	13678		17834		16367		
	2	12979		16915		15909	16138	
Motor Tricycle	1	986	1.59	1568	0.90	1411		
	2	1032	1.59	1641	1.11	1821	1616	1.00
Motorcycle	1	401	1.59	638	0.90	574		
	2	321	1.59	510	1.11	567	570	1.00
Special	1	24	1.59	38	0.90	34		
	2	11	1.59	17	1.11	19	27	1.00
TOTAL (AADT2)	1	15087		20078		18386		
	2	14343		19093		18317	18351	

Note: Total 1 = excluding motorcycle/tricycle
Total 2 = including motorcycle/tricycle

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY
Sta. Rita, Plaridel - San Jose Section

TRAFFIC COUNT SUMMARY I

STATION NO. 1 SECTION: BRGY. BANGALIST LOCATION: TABANG, PLARIDEL DATE: NOVEMBER 23, 1994

HOUR	DNR 1: From: TABANG					DNR 2: From: PLARIDEL					To: TABANG							
	CAR	JEEP	PICKUP	MINI BUS	TOTAL	CAR	JEEP	PICKUP	MINI BUS	TOTAL	TRUCK 3-Axle	TRUCK 4-Axle	TRUCK 5-Axle	MOTOR TRAILER	MOTOR CYCLE	SPECIAL	TOTAL	
24-01																		
01-02																		
02-03																		
03-04																		
04-05																		
05-06																		
06-07	153	67	125	0	345	22	32	22	21	97	0	474	236	122	83	0	51	30
07-08	163	121	119	0	403	12	34	12	2	58	0	579	242	108	110	0	36	17
08-09	207	155	142	0	504	17	35	17	0	59	0	674	251	101	112	0	34	44
09-10	201	80	142	0	423	14	49	14	0	77	0	608	218	88	123	0	20	78
10-11	227	73	198	0	508	5	55	5	37	102	0	674	241	100	121	0	6	75
11-12	153	54	138	0	345	3	37	3	1	44	0	512	171	72	108	0	24	59
12-13	220	125	176	0	521	37	49	37	1	124	1	612	200	87	125	0	35	55
13-14	211	61	176	0	448	43	58	43	6	140	0	644	166	108	137	0	45	55
14-15	229	74	200	0	503	40	59	40	10	149	0	684	214	84	153	0	36	56
15-16	208	79	185	0	472	35	77	35	6	153	0	694	228	99	139	0	49	47
16-17	265	87	232	0	584	25	61	25	14	125	0	804	210	121	194	0	39	56
17-18	235	106	108	0	449	13	52	13	4	82	0	632	208	108	145	0	32	27
18-19																		
19-20																		
20-21																		
21-22																		
22-23																		
23-24																		
24 Hrs	1973	1228	1928	0	5129	308	581	308	48	1245	2	7659	2631	1786	1543	0	417	595
74 Hrs	2572	1673	2528	0	6773	408	761	408	64	1639	2	10059	3431	2372	2086	0	554	814

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY
Sta. Rita, Plaridel - San Jose Section

TRAFFIC COUNT SUMMARY I

DATE: NOVEMBER 25, 1988

SECTION: BRGY. BANCAJIST

LOCATION: TARANG, PLARIDEL

SECTION: 1

STATION NO. 1

HOUR	DIR 1: From										DIR 2: From										To										TOTAL											
	CAS/ TAXI/ JEEP	JEOP/ MEY	PKCU/RY VAN	MINI/ BUS	LARGE/ BUS	TRUCK/ 2-AXLE	TRUCK/ 3-AXLE	TRUCK/ 4-AXLE OR MORE	MOTOR/ TRL	MOTOR/ CYCLE	SPECIAL	CAS/ TAXI/ JEEP	JEOP/ MEY	PKCU/RY VAN	MINI/ BUS	LARGE/ BUS	TRUCK/ 2-AXLE	TRUCK/ 3-AXLE	TRUCK/ 4-AXLE OR MORE	MOTOR/ TRL	MOTOR/ CYCLE	SPECIAL	CAS/ TAXI/ JEEP	JEOP/ MEY	PKCU/RY VAN	MINI/ BUS	LARGE/ BUS	TRUCK/ 2-AXLE	TRUCK/ 3-AXLE	TRUCK/ 4-AXLE OR MORE		MOTOR/ TRL	MOTOR/ CYCLE	SPECIAL								
24-01																																										
01-02																																										
02-03																																										
03-04																																										
04-05																																										
05-06																																										
06-07	151		50		0	24	45	27	2	33	2																															
07-08	165		120		0	30	24	24	2	73	21																															
08-09	215		113		0	33	33	23	0	41	17																															
09-10	224		86		0	40	45	22	1	47	10																															
10-11	175		92		0	36	72	24	6	31	14																															
11-12	101		69		0	29	30	22	6	27	16																															
12-13	138		104		0	30	45	41	6	36	17																															
13-14	202		69		0	37	55	37	4	30	21																															
14-15	194		56		0	27	55	45	5	45	15																															
15-16	180		64		0	30	45	36	3	25	9																															
16-17	182		66		0	27	55	27	10	40	11																															
17-18	208		100		0	30	45	18	7	42	19																															
18-19																																										
19-20																																										
20-21																																										
21-22																																										
22-23																																										
23-24																																										
24 Hrs	999		1180		0	384	565	364	59	507	187																															
12 Hrs	2248		2748		0	968	1465	964	118	1014	384																															
Ratio 24/12																																										

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM

Sta. Rita, Plaridel - San Jose Section

MANUAL TRAFFIC CLASSIFICATION COUNT

Sta. No. : 2

Date of Survey : Nov. 26 & 27, 1998

Road Name : BRGY. ANYATAN, KM. 68

Day : Thursday & Friday

Location : SAN ILDEFONSO-SAN MIGUEL

Vehicle Type	Day	12 Hr. COUNT	24 Hr. ADJ.	24 Hr. EXPANDED	Daily Factor	ADT	Seasonal Factor	AADT
Car/Taxi/Jeep	1	2164	1.34	2900	0.98	2842		
	2	2184	1.34	2927	0.97	2839	2340	0.98
Pick-Up/Vans (Cargo Jeepney)	1	2225	1.34	2982	0.98	2922		
	2	2315	1.34	3102	0.97	3009	2965	0.98
Jeepney	1	282	1.14	321	1.05	338		
	2	354	1.14	435	1.06	464	401	1.15
Mini Bus	1	0	0.00	0	0.00	0		
	2	0	0.00	0	0.00	0	0	0.00
Large Bus	1	530	1.34	710	0.93	660		
	2	531	1.34	712	0.97	690	675	1.25
Truck 2-Axle	1	733	1.32	968	0.98	948		
	2	711	1.32	939	1.00	939	943	1.14
Truck 3-Axle	1	231	1.32	305	0.98	299		
	2	314	1.32	414	1.00	414	357	1.14
Truck 4-or more Axle	1	70	1.33	93	1.25	116		
	2	74	1.33	98	1.03	101	109	1.03
SUB-TOTAL (AADT1)	1	6235		8278		8125		
	2	6513		8629		8456	8291	8589
Motor Tricycle	1	1459	1.59	2336	0.84	1962		
	2	1847	1.59	2937	0.88	2584	2273	1.00
Motorcycle	1	309	1.59	491	0.84	413		
	2	321	1.59	510	0.88	449	431	1.00
Special	1	8	1.59	13	0.84	11		
	2	10	1.59	16	0.88	14	12	1.00
TOTAL (AADT2)	1	8021		11118		10510		
	2	8691		12092		11504	11007	11305

Note: Total 1 = excluding motorcycle/tricycle
Total 2 = including motorcycle/tricycle

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY
Sta. Rita, Plandel - San Jose Section

TRAFFIC COUNT SUMMARY I

STATION NO.	2	SECTION	DIRY ANAYATAN, SAN JOSE		LOCATION	SAN LOPEZONSO-SAN MIGUEL		DATE	NOVEMBER 24, 1984					
			From	To		From	To							
HOUR	DIR 1: SAN LOPEZONSO				DIR 2: SAN MIGUEL				To: SAN LOPEZONSO					
	CAB/ TAXI/ JEEP	JEEP/ TRUCK/ VAN	TRUCK/ 2-AXLE/ BUS	TRUCK/ 3-AXLE/ OR MORE	CAB/ TAXI/ JEEP	JEEP/ TRUCK/ VAN	TRUCK/ 2-AXLE/ BUS	TRUCK/ 3-AXLE/ OR MORE	CAB/ TAXI/ JEEP	TRUCK/ 2-AXLE/ BUS	TRUCK/ 3-AXLE/ OR MORE	MOTOR TRI-CYCLE	MOTOR CYCLE	TOTAL
24-01														
01-02														
02-03														
03-04														
04-05														
05-06														
06-07	58	16	65	6	37	12	0	0	24	16	2	0	0	326
07-08	122	22	99	8	79	22	0	0	41	21	0	0	0	429
08-09	120	13	99	5	57	18	0	0	42	20	0	0	0	374
09-10	95	9	113	3	74	17	2	0	34	5	2	0	0	335
10-11	97	5	83	0	63	15	1	0	31	28	12	0	0	372
11-12	87	11	97	0	62	15	0	0	36	25	8	0	0	243
12-13	113	14	106	0	66	10	1	0	39	40	15	0	0	407
13-14	69	8	88	0	51	8	1	0	20	16	11	0	0	353
14-15	61	12	111	0	57	9	0	0	12	39	6	0	0	265
15-16	71	4	98	0	43	14	0	0	14	31	7	0	0	332
16-17	60	11	99	0	40	21	0	0	27	21	7	0	0	408
17-18	30	7	52	0	39	4	0	0	12	30	5	0	0	236
19-20														
20-21														
21-22														
22-23														
23-24														
24 hrs	995	133	1126	0	660	149	5	0	107	344	98	20	0	4136
Days Total														

FS ON UPGRADING INTER-URAN HIGHWAY SYSTEM

Sta. Rita, Plaridel - San Jose Section

MANUAL TRAFFIC CLASSIFICATION COUNT

Sta. No. : 3

Date of Survey : Dec. 03 & 04, 1998

Road Name : BRGY. TABUATING, KM. 104

Day : Thursday & Friday

Location : GAPAN-STA. ROSA

Vehicle Type	Day	12 Hr. COUNT	24 Hr. ADJ.	24 Hr. EXPANDED	Daily Factor	ADT		Seasonal Factor	AADT
Car/Taxi/Jeep	1	3486	1.34	4671	0.98	4578			
	2	3241	1.34	4343	0.97	4213	4395	0.98	4307
Pick-Up/Vans (Cargo Jeepney)	1	2460	1.34	3295	0.98	3230			
	2	2713	1.34	3635	0.97	3526	3378	0.98	3311
Jeepney	1	1251	1.14	1426	1.05	1497			
	2	1213	1.14	1383	1.06	1466	1492	1.15	1704
Mini Bus	1	0	0.00	0	0.00	0			
	2	0	0.00	0	0.00	0	0	0.00	0
Large Bus	1	478	1.34	641	0.93	595			
	2	492	1.34	659	0.97	640	618	1.25	772
Truck 2-Axle	1	859	1.32	1137	0.98	1163			
	2	786	1.32	1038	1.00	1038	1100	1.14	1254
Truck 3-Axle	1	319	1.32	421	0.98	413			
	2	293	1.32	387	1.00	387	400	1.14	456
Truck 4-or more Axle	1	106	1.33	141	1.25	176			
	2	106	1.33	141	1.03	145	161	1.03	166
SUB-TOTAL (AADT1)	1	8999		11783		11653			
	2	8844		11586		11414	11534		11969
Motor Tricycle	1	480	1.59	763	0.84	653			
	2	433	1.59	688	0.88	676	664	1.00	664
Motorcycle	1	279	1.59	444	0.84	373			
	2	260	1.59	413	0.89	364	368	1.00	368
Special	1	16	1.59	25	0.84	21			
	2	16	1.59	25	0.89	22	22	1.00	22
TOTAL (AADT2)	1	9783		13030		12700			
	2	9603		12793		12476	12588		13024

Note: Total 1 = excluding motorcycle/tricycle
Total 2 = including motorcycle/tricycle

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY
Sta. Rita, Plaridel - San Jose Section

TRAFFIC COUNT SUMMARY 1

STATION NO. 3 SECTION BRCY TABUATING KM 104 LOCATION GAPANSTA ROSA DATE DECEMBER 03, 1994

HOUR	DIR 1: From SAN LEONARDO										DIR 2: From CABANATUAN CITY										To SAN LEONARDO										To CABANATUAN CITY												
	CABANATUAN CITY					SAN LEONARDO					CABANATUAN CITY					SAN LEONARDO					CABANATUAN CITY					SAN LEONARDO					CABANATUAN CITY					SAN LEONARDO							
	CAR	TAXI	JEEP	MINI-BUS	PICKUP	VAN	TRUCK	MOTOR TRAIL	MOTOR TRAIL	MOTOR TRAIL	TOTAL	CAR	TAXI	JEEP	MINI-BUS	PICKUP	VAN	TRUCK	MOTOR TRAIL	MOTOR TRAIL	MOTOR TRAIL	TOTAL	CAR	TAXI	JEEP	MINI-BUS	PICKUP	VAN	TRUCK	MOTOR TRAIL	MOTOR TRAIL	MOTOR TRAIL	TOTAL	CAR	TAXI	JEEP	MINI-BUS	PICKUP	VAN	TRUCK	MOTOR TRAIL	MOTOR TRAIL	MOTOR TRAIL
24-01																																											
01-02																																											
02-03																																											
03-04																																											
04-05																																											
05-06																																											
06-07	73		47		82		0	13		42	17	6	16		8		0	3103	44	24	49											30	39	9		4		15				2	
07-08	141		100		105		0	14		36	19	4	27		17		2	4874	113	25	47											22	37	14		4		14				0	
08-09	151		81		151		0	13		46	5	1	12		18		0	4542	158	58	76											18	33	10		4		19				4	
09-10	205		61		157		0	23		46	33	2	17		16		2	5423	144	52	101											14	29	8		3		20				1	
10-11	175		96		149		0	20		42	10	2	29		14		0	408	142	50	124											20	23	14		5		24				0	
11-12	126		44		95		0	20		40	7	1	12		12		0	389	156	60	100											21	25	12		6		20				0	
12-13	122		93		89		0	18		30	14	3	21		7		0	358	136	65	102											17	44	17		11		15				1	
13-14	117		53		75		0	23		34	17	6	30		6		0	4254	169	53	114											28	46	15		6		26				0	
14-15	151		33		129		0	20		51	16	3	18		10		0	4333	171	57	108											25	53	6		2		16				0	
15-16	194		26		75		0	19		41	20	3	12		6		1	3093	154	37	84											17	27	7		4		16				0	
16-17	139		30		129		0	25		44	15	3	12		6		1	375	174	55	103											22	34	9		10		24				0	
17-18	139		34		115		0	20		44	20	6	31		14		2	423	194	60	122											21	25	25		9		24				0	
18-19																																											
19-20																																											
20-21																																											
21-22																																											
22-23																																											
23-24																																											
24 hrs	1688		620		1350		0	276		501	179	41	244		139		8	4989	1797	631	1110											720	398	160		451		241				0	
24 hrs																																											

**FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY
Sta. Rita, Plaridel - San Jose Section**

TRAFFIC COUNT SUMMARY I

STATION NO. 3 SECTION: BRGY. TABUATING, RM. 104 LOCATION: GAPANSTA, ROSA DATE: DECEMBER 04, 1996

HOUR	DIR 1: From SAN LEONARDO					To CABANATUAN CITY					DIR 2: From CABANATUAN CITY					To SAN LEONARDO																		
	CASH TAXI	JEEP	TRICYCLE	MVN	BUS	CARGE BUS	TRUCK 2-Axle	TRUCK 3-Axle	TRUCK 4-Axle	OR MORE	CASH TAXI	JEEP	TRICYCLE	MVN	BUS	CARGE BUS	TRUCK 2-Axle	TRUCK 3-Axle	TRUCK 4-Axle	OR MORE	CASH TAXI	JEEP	TRICYCLE	MVN	BUS	CARGE BUS	TRUCK 2-Axle	TRUCK 3-Axle	TRUCK 4-Axle	OR MORE	MOTOR CYCLE	SPECIAL	TOTAL	
04-01																																		
01-02																																		
02-03																																		
03-04																																		
04-05																																		
05-06																																		
06-07	70	49	57	0	0	0	0	0	0	319	89	35	83	0	0	171	16	10	3	20	9	0	0	0	0	0	0	0	0	0	0	284		
07-08	153	95	100	0	0	0	0	0	0	403	108	30	61	0	0	27	11	10	5	23	10	2	0	0	0	0	0	0	0	0	0	299		
08-09	130	79	143	0	0	0	0	0	0	498	130	60	76	0	0	17	30	16	5	18	13	2	0	0	0	0	0	0	0	0	0	367		
09-10	189	62	128	0	0	0	0	0	0	668	125	64	96	0	0	23	38	20	8	16	15	2	0	0	0	0	0	0	0	0	0	407		
10-11	175	59	157	0	0	0	0	0	0	498	119	54	114	0	0	23	30	14	10	26	11	0	0	0	0	0	0	0	0	0	0	0	395	
11-12	88	38	100	0	0	0	0	0	0	300	74	38	59	0	0	14	28	14	10	16	5	0	0	0	0	0	0	0	0	0	0	0	246	
12-13	154	66	139	0	0	0	0	0	0	486	167	80	148	0	0	30	37	12	4	29	6	0	0	0	0	0	0	0	0	0	0	0	505	
13-14	148	45	113	0	0	0	0	0	0	389	120	40	113	0	0	25	31	12	7	11	6	0	0	0	0	0	0	0	0	0	0	0	370	
14-15	132	43	134	0	0	0	0	0	0	458	121	42	110	0	0	21	26	11	3	11	6	0	0	0	0	0	0	0	0	0	0	0	384	
15-16	140	31	109	0	0	0	0	0	0	333	160	48	150	0	0	26	23	8	4	23	15	0	0	0	0	0	0	0	0	0	0	0	456	
16-17	110	24	87	0	0	0	0	0	0	311	141	39	136	0	0	17	21	14	4	21	15	0	0	0	0	0	0	0	0	0	0	0	486	
17-18	120	35	104	0	0	0	0	0	0	382	134	51	124	0	0	19	32	11	4	25	17	0	0	0	0	0	0	0	0	0	0	0	472	
18-19																																		
19-20																																		
20-21																																		
21-22																																		
22-23																																		
23-24																																		
24 hrs																																		
12 mos	167	62	165	0	0	0	0	0	0	483	151	57	136	0	0	258	367	131	55	74	150	0	0	0	0	0	0	0	0	0	0	670		

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM

Sta. Rita, Pinaridul - San Jose Section

MANUAL TRAFFIC CLASSIFICATION COUNT

Sta. No. : 4

Date of Survey : Dec. 01 & 02, 1998

Road Name : BRGY. BALOC, KM. 102

Day : Tuesday & Wednesday

Location : TALAVERA-MUNOZ

Vehicle Type	Day	12 Hr. COUNT	24 Hr. ADJ.	24 Hr. EXPANDED	Daily Factor	ADT		Seasonal Factor	AADT
Car/Taxi/Jeep	1	1476	1.29	1904	0.98	1866			
	2	1567	1.29	2021	1.07	2163	2014	1.34	2699
Pick-Up/Vans (Cargo Jeepney)	1	1452	1.29	1866	0.93	1849			
	2	1603	1.29	2068	1.07	2213	2030	1.34	2721
Jeepney	1	1770	1.20	2230	1.00	2230			
	2	1697	1.20	2126	1.06	2253	2242	1.16	2600
Mini Bus	1	0	0.00	0	0.00	0			
	2	0	0.00	0	0.00	0	0	0.00	0
Large Bus	1	175	1.15	201	0.96	193			
	2	183	1.15	210	1.55	326	260	1.02	265
Truck 2-Axle	1	680	1.28	870	0.84	731			
	2	624	1.28	799	1.20	958	845	2.00	1690
Truck 3-Axle	1	149	1.28	191	0.84	160			
	2	178	1.28	228	1.20	273	217	2.00	434
Truck 4-or more Axle	1	102	1.24	126	0.96	121			
	2	95	1.24	119	1.25	149	135	0.73	99
SUB-TOTAL (AADT1)	1	5814		7409		7150			
	2	5938		7571		8336	7743		10507
Motor Tricycle	1	1305	1.21	1579	0.90	1421			
	2	1317	1.21	1594	1.09	1594	1507	1.23	1854
Motorcycle	1	384	1.21	465	0.90	418			
	2	397	1.21	486	1.09	488	443	1.23	545
Special	1	122	1.21	148	0.90	133			
	2	119	1.21	144	1.00	144	138	1.23	170
TOTAL (AADT2)	1	7825		9600		9123			
	2	7751		9777		10541	9832		13077

Note: Total 1= excluding motorcycle/tricycle
Total 2 = including motorcycle/tricycle

**FS ON UPGRADING INTER-JURAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY
Sta. Rita, Plandid - San Jose Section**

TRAFFIC COUNT SUMMARY I

DATE: DECEMBER 02, 1998

STATION NO. 4 SECTION BRDY BALOC KM. 107

LOCATION: TALAYERA-MUNOZ

SECTION BRDY BALOC KM. 107

HOUR	To TALAYERA										To MUNOZ										To TALAYERA															
	DIR 1: From					To					DIR 2: From					To					DIR 3: From					To										
	CAR/TAUV/JEEP	JEEP/NEV	PICKUP/VAN	MINI-BUS	LARGE-BUS	TRUCK 2-AXLE	TRUCK 3-AXLE	TRUCK 4-AXLE	MOTOR TRN. CYCLE	MOTOR CYCLE	SPECIAL	TOTAL	CAR/TAUV/JEEP	JEEP/NEV	PICKUP/VAN	MINI-BUS	LARGE-BUS	TRUCK 2-AXLE	TRUCK 3-AXLE	TRUCK 4-AXLE	MOTOR TRN. CYCLE	MOTOR CYCLE	SPECIAL	TOTAL	CAR/TAUV/JEEP	JEEP/NEV	PICKUP/VAN	MINI-BUS	LARGE-BUS	TRUCK 2-AXLE	TRUCK 3-AXLE	TRUCK 4-AXLE	MOTOR TRN. CYCLE	MOTOR CYCLE	SPECIAL	TOTAL
01-01																																				
01-02																																				
02-03																																				
03-04																																				
04-05																																				
05-06																																				
06-07	25	42	82	0	0	21	12	7	47	10	51	231	27	45	33	0	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
07-08	59	90	88	0	0	74	12	71	122	20	15	419	56	71	68	0	16	27	21	25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
08-09	76	87	55	0	0	6	36	6	71	46	17	337	64	96	10	0	10	74	4	5	44	30	11	336	5	44	30	11	336	5	44	30	11	336	5	44
09-10	104	85	100	0	0	23	0	4	47	19	11	203	81	96	66	0	2	26	5	3	54	17	7	368	3	54	17	7	368	3	54	17	7	368	3	54
10-11	70	67	61	0	0	20	5	2	41	21	6	305	61	51	51	0	6	34	5	3	76	17	7	368	3	76	17	7	368	3	76	17	7	368	3	76
11-12	58	66	66	0	0	20	5	2	36	16	7	298	72	63	45	0	11	34	5	3	76	17	7	368	3	76	17	7	368	3	76	17	7	368	3	76
12-13	46	57	39	0	0	18	5	6	72	9	0	254	52	52	52	0	7	21	5	3	67	11	7	273	3	67	11	7	273	3	67	11	7	273	3	67
13-14	85	96	96	0	0	27	12	6	105	15	41	349	76	77	96	0	8	23	2	4	45	12	7	316	4	45	12	7	316	4	45	12	7	316	4	45
14-15	75	76	60	0	0	20	8	3	37	11	51	281	71	77	82	0	13	31	2	4	45	12	7	316	4	45	12	7	316	4	45	12	7	316	4	45
15-16	87	77	70	0	0	28	10	0	37	14	5	325	107	79	107	0	9	44	14	3	26	19	7	316	3	26	19	7	316	3	26	19	7	316	3	26
16-17	61	70	66	0	0	21	5	4	87	17	3	361	68	67	97	0	8	39	11	3	80	18	7	432	3	80	18	7	432	3	80	18	7	432	3	80
17-18	46	39	52	0	0	11	5	7	36	14	4	232	42	26	42	0	4	19	6	4	43	11	7	273	4	43	11	7	273	4	43	11	7	273	4	43
18-19																																				
19-20																																				
20-21																																				
21-22																																				
22-23																																				
23-24																																				
24 hrs																																				
12 hrs	771	638	794	0	0	71	107	50	441	477	57	3816	754	849	807	0	105	318	84	61	676	210	67	3165	67	676	210	67	3165	67	676	210	67	3165	67	676

FS ON UPGRADING INTER-JURAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY
Sta. Rita, Plaridel - San Jose Section

TRAFFIC COUNT SUMMARY 1

STATION NO. 4 SECTION: BRGV BALOC KM 102 LOCATION: TALAVERA-MUNDOZ DATE: DECEMBER 01, 1994

HOUR	From: TALAVERA					To: MUNDOZ					From: MUNDOZ					To: TALAVERA										
	CAR/ JEEP	PICKUP/ VAN	MINI- BUS	LARGE BUS	TRUCK 3-Axle	TRUCK 2-Axle	TRUCK 3-Axle	TRUCK 2-Axle	TRUCK 3-Axle	TRUCK 2-Axle	CAR/ JEEP	PICKUP/ VAN	MINI- BUS	LARGE BUS	TRUCK 3-Axle	TRUCK 2-Axle	TRUCK 3-Axle	TRUCK 2-Axle	TRUCK 3-Axle	TRUCK 2-Axle	MOTOR TRH. CYCLE	MOTOR CYCLE	SPECIAL	TOTAL		
24-01																										
01-02																										
02-03																										
03-04																										
04-05																										
05-06																										
06-07	37	53	44	0	1	24	3	10	36	30	40	41	278	56	51	79	0	7	10	2	5	38	6	197		
07-08	21	93	82	0	2	24	4	10	110	71	15	15	341	78	68	31	0	8	16	5	1	119	25	345		
08-09	60	89	69	0	2	31	11	34	40	26	51	336	74	102	57	0	9	17	4	10	47	27	6	340		
09-10	84	109	74	0	11	57	6	0	51	22	4	420	76	152	72	0	6	27	8	3	57	36	8	377		
10-11	48	91	69	0	4	33	0	0	39	18	4	350	96	16	72	0	5	32	13	6	43	21	5	340		
11-12	48	54	41	0	4	19	0	0	54	30	4	254	45	27	42	0	6	25	2	4	69	10	3	236		
12-13	49	61	60	0	1	14	0	0	56	32	2	307	43	56	66	0	9	20	2	4	69	10	3	299		
13-14	76	77	75	0	1	11	0	0	56	48	18	2	348	68	64	61	0	15	20	5	2	56	14	4	354	
14-15	69	67	70	0	0	23	12	11	32	15	11	303	59	70	83	0	8	31	5	2	34	13	2	304		
15-16	51	65	60	0	5	30	3	0	28	12	6	263	70	62	71	0	9	32	6	4	40	15	8	312		
16-17	50	64	73	0	6	22	5	1	60	12	3	286	54	62	62	0	5	29	11	8	51	13	3	296		
17-18	68	51	67	0	10	14	7	3	73	16	5	333	57	58	79	0	4	29	7	4	56	13	1	326		
18-19																										
19-20																										
20-21																										
21-22																										
22-23																										
23-24																										
24 hrs	728	868	744	0	41	377	76	53	620	484	68	348	248	213	273	0	84	304	71	48	676	140	51	3177		

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM

Sta. Rita, Plaridel - San Jose Section

MANUAL TRAFFIC CLASSIFICATION COUNT

Sta. No. : 5
 Road Name : BRGY. MALASIN, KM. 161

Date of Survey : Dec. 01 & 02, 1998
 Day : Tuesday & Wednesday

Location : ARITAO-SAN JOSE CITY

Vehicle Type	Day	12 Hr. COUNT	24 Hr. ADJ.	24 Hr. EXPANDED	Daily Factor	ADT		Seasonal Factor	AADT
Car/Taxi/Jeep	1	497	1 29	641	0 93	628			
	2	450	1 29	593	1 07	635	632	1 34	846
Pick-Up/Vans (Cargo Jeepney)	1	662	1 29	854	0 93	837			
	2	711	1 29	917	1 07	981	909	1 34	1218
Jeepney	1	194	1 20	244	1 00	244			
	2	176	1 20	222	1 06	235	240	1 16	278
Mini Bus	1	7	1 14	8	0 84	7			
	2	19	1 14	22	1 19	26	16	0 59	10
Large Bus	1	168	1 15	193	0 96	165			
	2	153	1 15	176	1 55	273	229	1 02	234
Truck 2-Axle	1	297	1 28	380	0 84	319			
	2	272	1 28	348	1 20	418	369	2 00	737
Truck 3-Axle	1	135	1 28	173	0 84	145			
	2	138	1 28	177	1 20	212	179	2 00	357
Truck 4-or more Axle	1	84	1 24	104	0 96	100			
	2	66	1 24	82	1 25	102	101	0 73	74
SUB-TOTAL (AADT1)	1	2044		2598		2466			
	2	1995		2537		2882	2674		3754
Motor Tricycle	1	2497	1 21	3009	0 90	2708			
	2	2337	1 21	2828	1 00	2828	2768	1 23	3405
Motorcycle	1	329	1 21	399	0 90	358			
	2	293	1 21	355	1 00	355	356	1 23	438
Special	1	83	1 21	100	0 90	90			
	2	71	1 21	86	1 00	86	88	1 23	108
TOTAL (AADT2)	1	4943		6106		5623			
	2	4596		5805		6150	5687		7706

Note: Total 1 = excluding motorcycle/tricycle
 Total 2 = including motorcycle/tricycle

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM
 ALONG THE PAN PHILIPPINE HIGHWAY
 Sta. Rita, Plandel - San Jose Section
 TRAFFIC COUNT SUMMARY 1

STATION NO. 5 SECTION BRGY MALABIN, KM. 191 LOCATION ARTAOSAN JOSE CITY DATE: DECEMBER 02, 1994

HOUR	DIR 1: From SAN JOSE CITY										DIR 2: From ARTAOSAN JOSE CITY										To SAN JOSE CITY																												
	CAR	TAXI	JEOP	JEOP	JEOP	JEOP	JEOP	JEOP	JEOP	JEOP	CAR	TAXI	JEOP	JEOP	JEOP	JEOP	JEOP	JEOP	JEOP	JEOP	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK	TRUCK
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
24-01																																																	
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23-24																																																	
24 HRS																																																	
52 HRS																																																	
TOTAL																																																	

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM

Sta. Rita, Plaridel - San Jose Section

MANUAL TRAFFIC CLASSIFICATION COUNT

Sta. No. : RTC-2

Date of Survey : Nov. 23 & 24, 1998

Road Name : BROGY. KRUS-NA-DAAN, KM. POST 60

Day : Monday & Tuesday

Location : SAN RAFAEL, BULACAN

Vehicle Type	Day	12 Hr. COUNT	24 Hr. ADJ.	24 Hr. EXPANDED	Daily Factor	ADT		Seasonal Factor	AADT
Car/Taxi/Jeep	1	3143	1.34	4212	0.94	3959			
	2	3023	1.34	4051	0.93	3767	3863	0.98	3786
Pick-Up/Vans (Cargo Jeepney)	1	2781	1.34	3727	0.94	3593			
	2	2708	1.34	3629	0.93	3375	3439	0.98	3370
Jeepney	1	1380	1.14	1573	0.88	1384			
	2	1132	1.14	1290	0.74	955	1170	1.15	1345
Mini Bus	1	0	0.00	0	0.00	0			
	2	0	0.00	0	0.00	0	0	0.00	0
Large Bus	1	586	1.34	785	0.81	636			
	2	523	1.34	701	0.84	589	612	1.25	765
Truck 2-Axle	1	879	1.32	1160	0.89	1033			
	2	923	1.32	1218	1.21	1474	1253	1.14	1429
Truck 3-Axle	1	420	1.32	554	0.89	493			
	2	378	1.32	499	1.21	604	549	1.14	625
Truck 4 or more Axle	1	85	1.33	114	1.08	124			
	2	64	1.33	85	1.64	140	132	1.03	136
SUB-TOTAL (AADT1)	1	9275		12126		11132			
	2	8751		11473		10903	11018		11456
Motor Tricycle	1	1377	1.59	2189	0.90	1970			
	2	1430	1.59	2274	1.11	2524	2247	1.00	2247
Motorcycle	1	436	1.59	693	0.90	624			
	2	386	1.59	614	1.11	681	653	1.00	653
Special	1	22	1.59	35	0.90	31			
	2	5	1.59	8	1.11	9	20	1.00	20
TOTAL (AADT2)	1	11110		15043		13758			
	2	10572		14369		14117	13937		14376

Note: Total 1 = excluding motorcycle/tricycle
Total 2 = including motorcycle/tricycle

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM

Sta. Rita, Plaridel - San Jose Section

MANUAL TRAFFIC CLASSIFICATION COUNT

Sta. No. : **RTC-3**
 Road Name : **KM. POST 66**

Date of Survey : **Nov. 26 & 27, 1998**
 Day : **Thursday & Friday**

Location : **SAN ILDEFONSO TOWN PROPER, BULACAN**

Vehicle Type	Day	12 Hr. COUNT	24 Hr. ADJ.	24 Hr. EXPANDED	Daily Factor	ADT		Seasonal Factor	AADT
Car/Taxi/Jeep	1	3565	1.34	4777	0.95	4682			
	2	3440	1.34	4610	0.97	4471	4576	0.93	4485
Pick-Up/Vans (Cargo Jeepney)	1	2713	1.34	3635	0.93	3563			
	2	2596	1.34	3479	0.97	3374	3468	0.98	3399
Jeepney	1	1244	1.14	1418	1.05	1459			
	2	1374	1.14	1566	1.08	1660	1575	1.15	1811
Mini Bus	1	0	0.00	0	0.00	0			
	2	0	0.00	0	0.00	0	0	0.00	0
Large Bus	1	592	1.34	793	0.93	738			
	2	538	1.34	721	0.97	699	719	1.25	898
Truck 2-Axle	1	890	1.32	1175	0.98	1151			
	2	851	1.32	1123	1.00	1123	1137	1.14	1297
Truck 3-Axle	1	281	1.32	371	0.98	364			
	2	338	1.32	446	1.00	446	405	1.14	462
Truck 4-or more Axle	1	100	1.33	133	1.25	166			
	2	52	1.33	69	1.03	71	119	1.03	122
SUB-TOTAL (AADT1)	1	9385		12303		12152			
	2	9189		12014		11846	11999		12473
Motor Tricycle	1	1737	1.59	2762	0.84	2320			
	2	1622	1.59	2579	0.88	2270	2295	1.00	2295
Motorcycle	1	491	1.59	781	0.84	656			
	2	640	1.59	1018	0.83	895	776	1.00	776
Special	1	9	1.59	14	0.84	12			
	2	3	1.59	5	0.68	4	8	1.00	8
TOTAL (AADT2)	1	11622		15360		15149			
	2	11454		15618		15015	15078		15552

Note: Total 1 = excluding motorcycle/tricycle
 Total 2 = including motorcycle/tricycle

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM

Sta. Rita, Plaridel - San Jose Section

MANUAL TRAFFIC CLASSIFICATION COUNT

Sta. No. : RTC-6

Date of Survey : Dec. 01 & 02, 1998

Road Name : BRGY. MARCOS DISTRICT, TALAVERA, NUEVA ECUIJA

Day : Tuesday & Wednesday

Location : CABANATUAN-MUNOZ ROAD

Vehicle Type	Day	12 Hr. COUNT	24 Hr. ADJ.	24 Hr. EXPANDED	Daily Factor	ADT		Seasonal Factor	AADT
Car/Taxi/Jeep	1	2976	1.29	3839	0.98	3762			
	2	3097	1.29	3995	1.07	4275	4019	1.34	5585
Pick-Up/Vans (Cargo Jeepney)	1	2539	1.29	3275	0.98	3210			
	2	2741	1.29	3536	1.07	3783	3497	1.34	4685
Jeepney	1	2359	1.26	2972	1.00	2972			
	2	2241	1.26	2824	1.06	2993	2933	1.15	3460
Mini Bus	1	0	0.00	0	0.00	0			
	2	0	0.00	0	0.00	0	0	0.00	0
Large Bus	1	210	1.15	242	0.96	232			
	2	248	1.15	285	1.55	442	337	1.02	344
Truck 2-Axle	1	845	1.28	1082	0.84	909			
	2	781	1.28	1000	1.20	1200	1054	2.00	2108
Truck 3-Axle	1	150	1.28	192	0.84	161			
	2	180	1.28	230	1.20	276	219	2.00	438
Truck 4-or more Axle	1	91	1.24	113	0.96	108			
	2	77	1.24	95	1.25	119	114	0.73	83
SUB-TOTAL (AADT1)	1	9170		11715		11354			
	2	9365		11965		13089	12222		16503
Motor Tricycle	1	9217	1.21	11153	0.90	10037			
	2	8276	1.21	10014	1.00	10014	10026	1.23	12332
Motorcycle	1	857	1.21	1037	0.90	933			
	2	777	1.21	940	1.00	940	937	1.23	1152
Special	1	104	1.21	126	0.90	113			
	2	103	1.21	125	1.00	125	119	1.23	146
TOTAL (AADT2)	1	19348		24030		22438			
	2	16521		23044		24168	23303		30133

Note: Total 1 = excluding motorcycle/tricycle
Total 2 = including motorcycle/tricycle

FS ON UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN PHILIPPINE HIGHWAY
Sta. Rita, Plaridel - San Jose Section

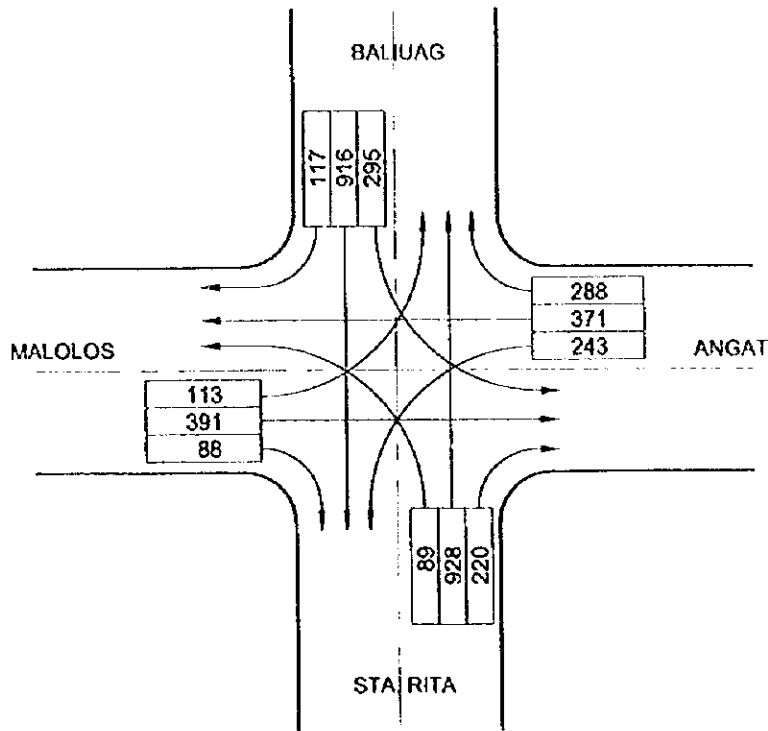
TRAFFIC COUNT SUMMARY I

STATION NO. RTC-6 SECTION: BROY, MARCOS DISTRICT, TALAYERA, NUEVA ECUA... LOCATION: CABANATUAN-MUNOZ ROAD DATE: DECEMBER 07, 1988

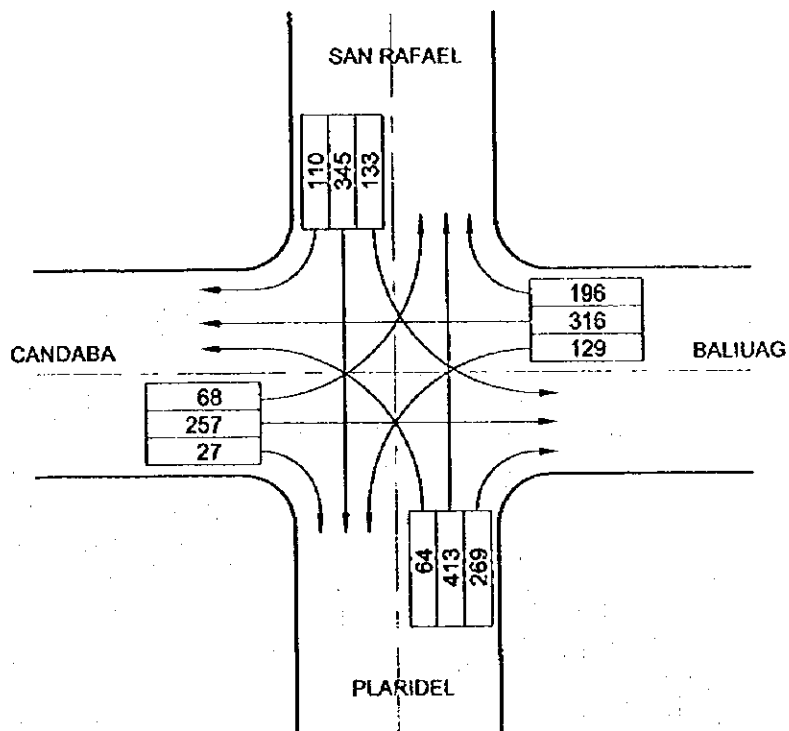
HOUR	DIR 1 From CABANATUAN					To MUNOZ					DIR 2 From MUNOZ					To CABANATUAN										
	CAR	TAXI	JEOP	TRUCK	TRUCK	CAR	TAXI	JEOP	TRUCK	TRUCK	CAR	TAXI	JEOP	TRUCK	TRUCK	CAR	TAXI	JEOP	TRUCK	TRUCK	CAR	TAXI	JEOP	TRUCK	TRUCK	
	72	65	0	4	19	12	4	254	21	6	518	74	88	71	0	7	17	9	7	279	21	2	570	41	1002	
	113	117	0	5	36	7	5	523	24	5	933	121	141	931	0	11	19	4	5	557	47	41	1002	41	1002	
	103	105	0	6	48	7	1	409	20	0	879	157	131	109	0	12	36	5	7	426	43	6	932	6	932	
	102	104	0	6	36	7	6	496	26	1	892	149	115	124	0	19	33	7	7	470	47	7	924	7	924	
	101	103	0	4	14	4	4	371	14	1	517	147	102	116	0	21	13	11	11	471	2	4	828	4	828	
	100	102	0	15	16	11	3	214	14	1	237	138	95	114	0	10	11	11	11	374	28	5	823	5	823	
	100	102	0	10	32	6	4	136	18	0	703	20	63	931	0	8	12	12	12	479	33	0	655	0	655	
	100	102	0	6	39	18	3	346	17	0	794	121	841	1031	0	7	14	14	14	302	20	7	712	7	712	
	100	102	0	10	49	15	9	246	19	0	740	104	711	1221	0	17	42	42	42	157	111	21	632	21	632	
	100	102	0	9	4	9	1	242	20	0	642	105	921	1191	0	14	21	21	21	309	31	31	754	31	754	
	100	102	0	6	24	3	2	265	27	0	618	115	691	1211	0	6	23	23	23	294	35	41	674	41	674	
	100	102	0	9	41	19	3	326	15	0	869	144	94	1781	0	15	41	41	41	319	55	7	868	55	868	
19-20																										
20-21																										
21-22																										
22-23																										
23-24																										
24 Hrs.	1533	1533	0	91	326	106	25	2080	177	10	6422	1549	1153	9328	0	157	395	74	74	4161	406	52	9374	406	9374	
Totals	2743	2743	0	248	781	160	27	8276	777	101	44524	6422	4153	9328	0	157	395	74	74	4161	406	52	9374	406	9374	

APPENDIX 4.3-1 INTERSECTION TRAFFIC AT PEAK HOUR

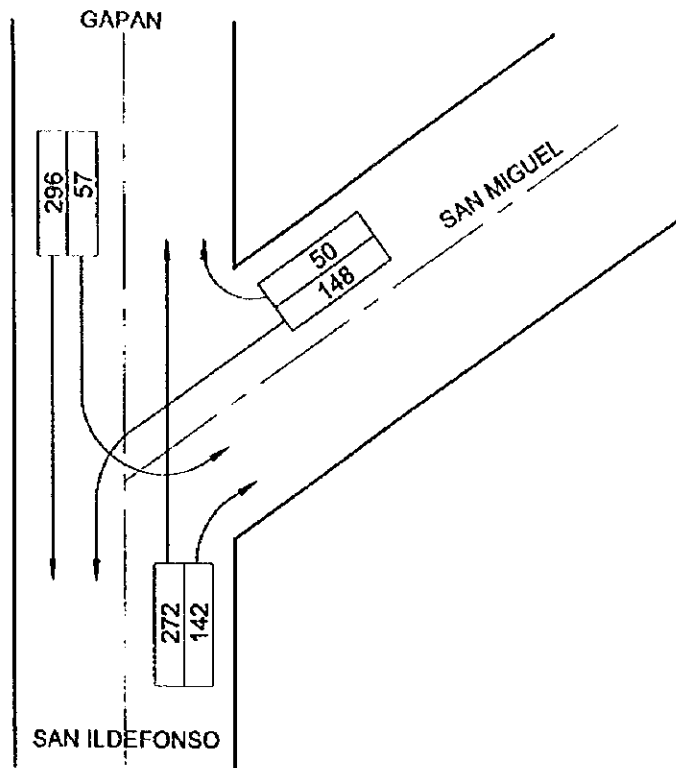
STATION NO. ITC - 1 (PLARIDEL INTERSECTION)



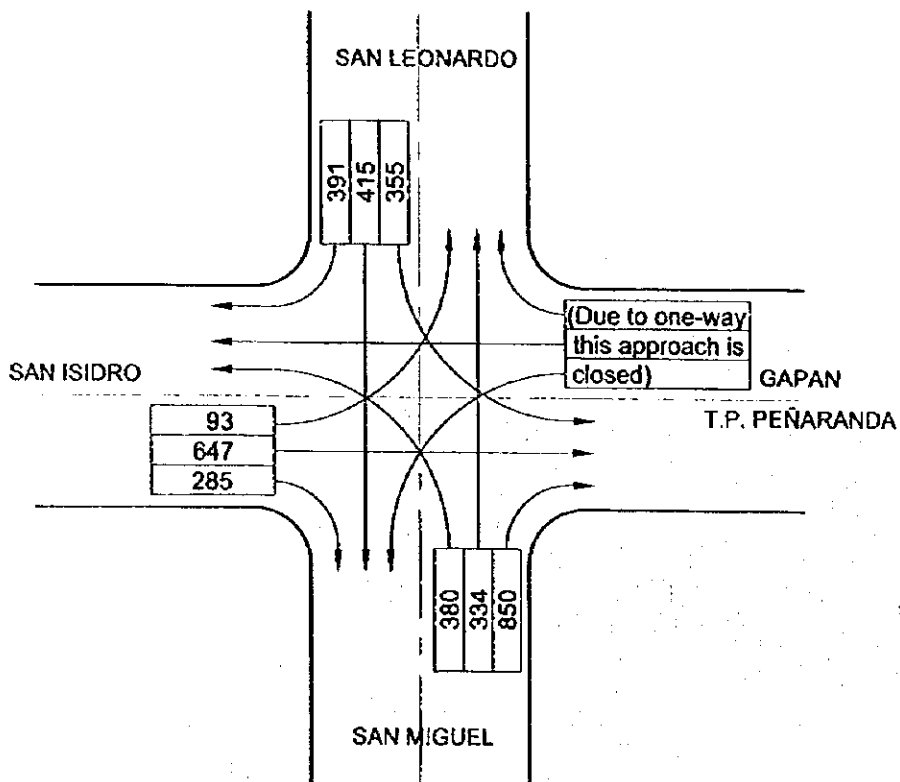
STATION NO. ITC - 2 (BALIUAG INTERSECTION)



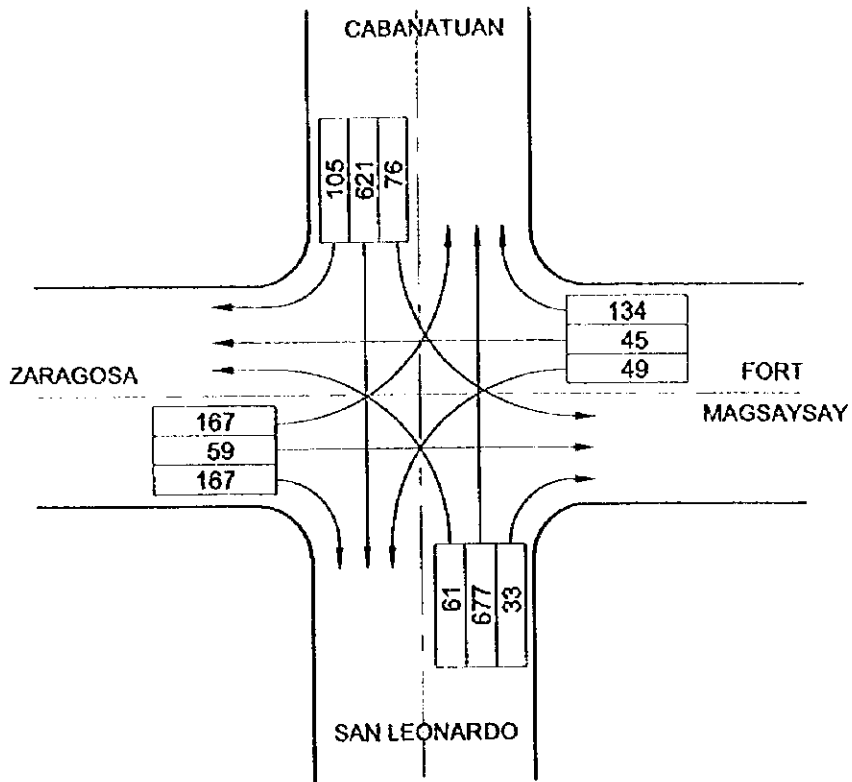
STATION NO. ITC - 3 (SAN MIGUEL BYPASS INTERSECTION)



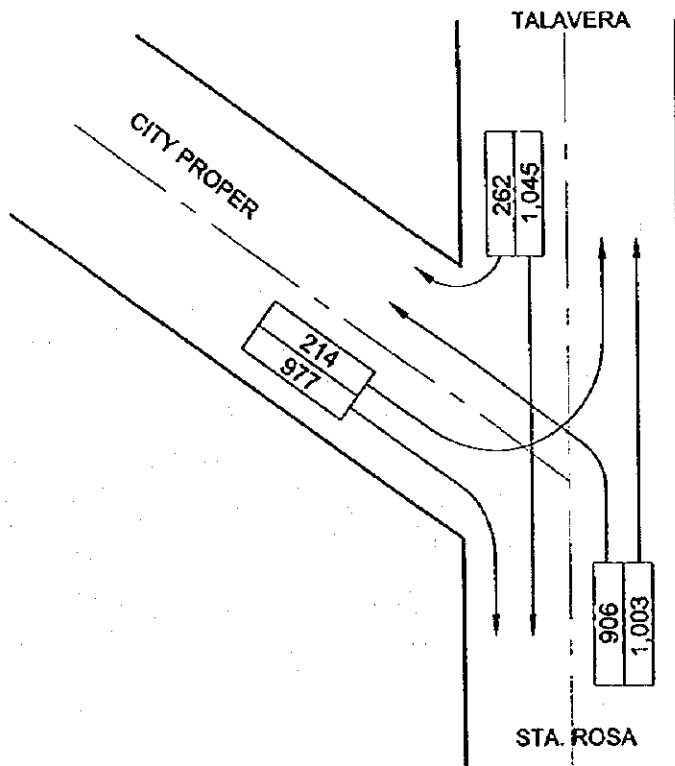
STATION NO. ITC - 4 (GAPAN INTERSECTION)



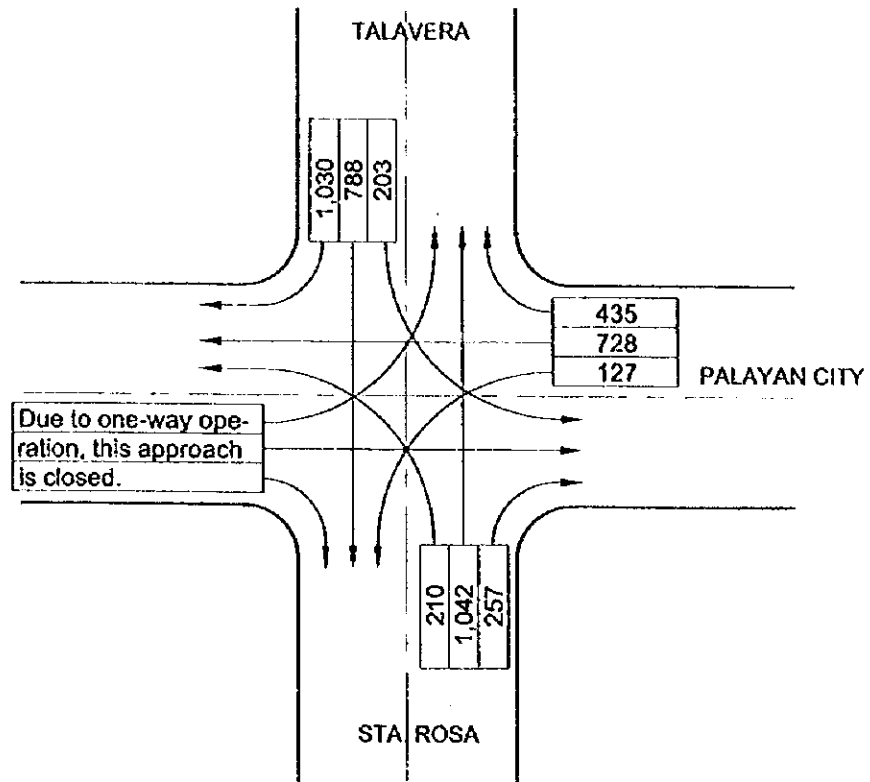
STATION NO. ITC - 5 (STA. ROSA INTERSECTION)



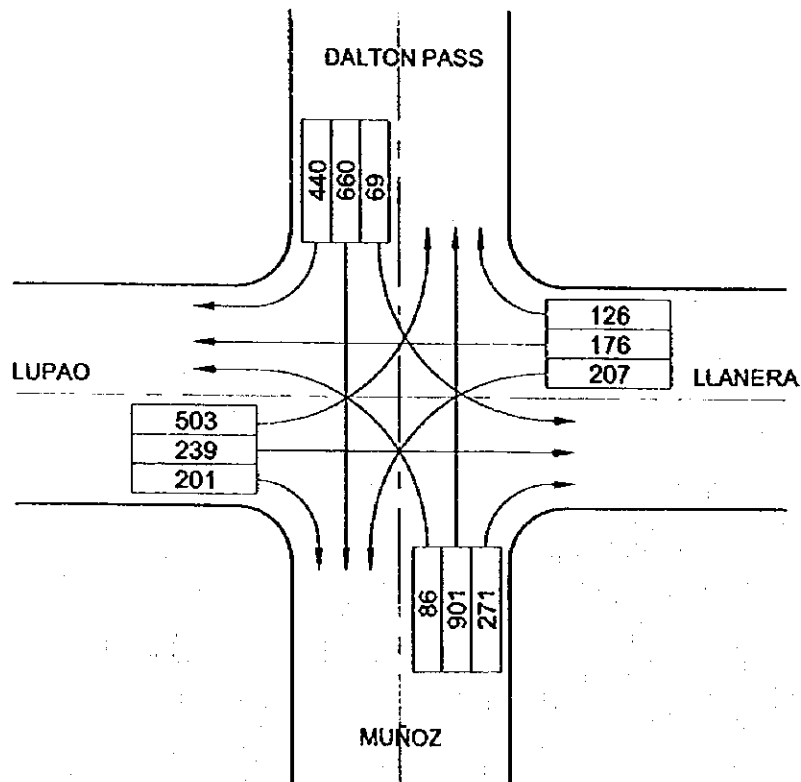
STATION NO. ITC - 3 (SAN MIGUEL BYPASS INTERSECTION)



STATION NO. ITC - 7 (CABANATUAN - 2 INTERSECTION)



STATION NO. ITC - 8 (SAN JOSE INTERSECTION)



APPENDIX 4.4-1 TRAFFIC ZONES

**ZONING FOR ADMINISTRATIVE DIVISION
FOR BULACAN PROVINCE(1)**

No.	Zone No	Province	Municipality	Barangay
1	0 1 0 0	Bulacan	Angat	All Barangays
2	0 2 0 0	Bulacan	Balagtas	All Barangays
3	0 3 0 1	Bulacan	Baliuag	Pagala Santo Cristo
4	0 3 0 2	Bulacan	Baliuag	Sabang
5	0 3 0 3	Bulacan	Baliuag	Bagong Nayon Concepcion Poblacion San Jose Subic Tibag
6	0 3 0 4	Bulacan	Baliuag	Makinabang Tarcen Tiaong Virgen delas Flores
7	0 3 0 5	Bulacan	Baliuag	Calantipay Catulinan Matanglubig Pinagbarilan Santa Barbara Sulivan Tilapayong
8	0 3 0 6	Bulacan	Baliuag	Barangca Hinukay Paitan Piel San Roque Santo Nino Tangos
9	0 4 0 0	Bulacan	Bocaue	All Barangays
10	0 5 0 0	Bulacan	Guiguinto	All Barangays
			Bulacan	All Barangays
11	0 6 0 1	Bulacan	Bustos	Bonga Mayor Poblacion San Pedro Tanawan
12	0 6 0 2	Bulacan	Bustos	Liciada Buisan Camachilihan Cambaog Malamig Talampas
13	0 6 0 3	Bulacan	Bustos	Bonga Menor Catacte Malawak Tibagan

ZONING FOR ADMINISTRATIVE DIVISION
FOR BULACAN PROVINCE(2)

No.	Zone No	Province	Municipality	Barangay
14	0 7 0 0	Bulacan	Calumpit	All Barangays
15	0 8 0 0	Bulacan	Paombong	All Barangays
			Hagonoy	All Barangays
			Malolos	All Barangays
16	0 9 0 0	Bulacan	Obando	All Barangays
			Mapilao	All Barangays
			Meycauayan	All Barangays
17	1 0 0 0	Bulacan	Norzagaray	All Barangays
18	1 1 0 1	Bulacan	Pandi	Bagbaguin
				Bunsuran I
				Bunsuran II
				Bunsuran III
				Cacarong Bata
				Cacarong Matanda
				Cupang
				Malibong Matanda
				Manataf
				Masagana
19	1 1 0 2	Bulacan	Pandi	Bagong Barrio
				Baka-bakahan
				Malibong Bata
				Mapulang Lupa
				Masuso
				Pinagkuartelan
				Poblacion
				Real de Cacarong
				San Roque
				Santo Nino
				Siling Bata
				Siling Matanda
20	1 2 0 1	Bulacan	Plaridel	Banga II
				Bintog
				Bulihan
				Parulan
				San Jose
21	1 2 0 2	Bulacan	Plaridel	Agnaya
				Dampol(I&II)
				Lagundi
				Lalangan
				Lumang Bayan
				Poblacion
				Rueda
				Santa Ines
				Santo Nino
				Sipat
22	1 2 0 3	Bulacan	Plaridel	Bagong Silang
				Banga I
				Tabang
23	1 2 0 4	Bulacan	Plaridel	Culianin

**ZONING FOR ADMINISTRATIVE DIVISION
FOR BULACAN PROVINCE(3)**

No.	Zone No	Province	Municipality	Barangay
24	1 3 0 1	Bulacan	Pulilan	Cutcol
				Longos
				Paltao
				Poblacion
				Santo Cristo
				Taal
				Tinejero
25	1 3 0 2	Bulacan	Pulilan	Balatong A
				Balatong B
				Dampol I
				Dampol II-A
				Dampol II-B
				Dulong Malabon
				Inaon
				Lumbac
				Penabatan
				Santa Peregrina
				Tabon
				Tibag
				26
Calawitan				
Poblacion				
Pulong Tamo				
27	1 4 0 2	Bulacan	San Ildefonso	Anyatam
				Bubulong Malaki
				Bubulong Munti
				Buhol na Mangga
				Bulusukan
				Garlang
				Lapnit
				Makapilapil
				Mataas Na Parang
				Nabaong Garlang
				Pinaod
				San Juan
Santa Catalina Bata				
Santa Catalina Matanda				
Sumandig				
28	1 4 0 3	Bulacan	San Ildefonso	Maasim
				Malipampang
				Matimbubong
				Sapang Putik
				Sapang Putol
29	1 4 0 4	Bulacan	San Ildefonso	Telepatio
				Akle
				Alagao
				Bagong Barrio
				Basuit
				Casalat
				Gabihan
Palapaia				

**ZONING FOR ADMINISTRATIVE DIVISION
FOR BULACAN PROVINCE(4)**

No.	Zone No	Province	Municipality	Barangay
29	1 4 0 4	Bulacan	San Ildefonso	Pasong Bangkal
				Sapang Dayap
				Umpucan
				Upig
30	1 5 0 0	Bulacan	San Jose Del Monte	All Barangays
31	1 6 0 1	Bulacan	San Miguel	Batasan Bata
				Paliwasan
				Salangan
				San Agustin
32	1 6 0 2	Bulacan	San Miguel	Santa Rita Bata
				Biclat
				Magmarale
				San Juan
33	1 6 0 3	Bulacan	San Miguel	Santa Rita Matanda
				Tibagan
				Batasan Matanda
				Mandile
34	1 6 0 4	Bulacan	San Miguel	San Vicente
				Balite
				Buliran
				Camias
35	1 6 0 5	Bulacan	San Miguel	Poblacion
				Santa Ines
				Tigpalas
				Balaong
				Labne
				Masalipit
				Pacalag
				Pulong Bayabas
San Jose				
36	1 6 0 6	Bulacan	San Miguel	Sibul
				Tartaro
				Bagong Pag-asa
				Bagong Silang
				Bantog
				Baritan
				Biak-na-Bato
				Buga
				Bulualto
				Cambio
				Ilog-Bulo
				Pulong Duhat
Sacdalan				
Salacot				
Sapang				
37	1 6 0 7	Bulacan	San Miguel	Bardias
				Calumpang
				King Kabayo
				Lambakin
				Malibay

**ZONING FOR ADMINISTRATIVE DIVISION
FOR BULACAN PROVINCE(5)**

No.	Zone No	Province	Municipality	Barangay
37	1 6 0 7	Bulacan	San Miguel	Maligaya
				Partida
				Pinambaran
				Santa Lucia
38	1 7 0 1	Bulacan	San Rafael	Banca-banca
				BMA-Balagtas
				Coral na Bato
				Libis
				Lico
				Maronguillo
				Pasong Callos
				Pasong Intsik
				Poblacion
				Pulo
				Talacsan
				Tukod
				39
Capihan				
Cruz na Daan				
Dagal-dagatan				
Diliman I				
Diliman II				
Maasim				
Mabalas-balas				
Maguinao				
Paco				
Pansumaloc				
Pantubig				
Pasong Bangkal				
Pinacpinacan				
Pulong Bayabas				
Salapungan				
Sampaloc				
San Agustin				
San Roque				
Sapang Pahalang				
Tambubong				
Ulingao				
40	1 8 0 0	Bulacan	Sta. Maria	All Barangays
41	1 9 0 0	Bulacan	Dona Remedios Trinidad	All Barangays

ZONING FOR ADMINISTRATIVE DIVISION
FOR NUEVA ECIIJA PROVINCE(1)

No.	Zone No.	Province	Municipality	Barangay
42	3 1 0 0	Nueva Ecija	Aliaga	All Barangays
43	3 2 0 0	Nueva Ecija	Bongabong	All Barangays
44	3 3 0 1	Nueva Ecija	Cabanatuan City	Dionisio S. Garcia Hermogenes C. Concepcion, Sr. Kapitan Pepe (Pob.) San Juan Pob. (Acofa) San Roque Sur
45	3 3 0 2	Nueva Ecija	Cabanatuan City	Bonifacio District (Pob.) Rizdelis (Pob.) Vijandre District (Pob.)
46	3 3 0 3	Nueva Ecija	Cabanatuan City	Barrera District (Pob.) Bernardo District (Pob.) City Supermarket (Pob.) Dimasalang (Pob.) Fatima (Pob.) M. S. Garcia Melojvilla (Pob.) Zulueta District (Pob.)
47	3 3 0 4	Nueva Ecija	Cabanatuan City	Imelda District
48	3 3 0 5	Nueva Ecija	Cabanatuan City	San Josef Norte San Josef Sur Sumacab Norte
49	3 3 0 6	Nueva Ecija	Cabanatuan City	Aduas Sur General Luna (Pob.) Matadero (Pob.) Nabao (Pob.) Padre Burgos (Pob.) Sanbermicristi (Pob.)
50	3 3 0 7	Nueva Ecija	Cabanatuan City	Aduas Centro (Aduas) Isla (Pob.) Pagas
51	3 3 0 8	Nueva Ecija	Cabanatuan City	San Roque Norte Sangitan
52	3 3 0 9	Nueva Ecija	Cabanatuan City	Bantug Bulalo Caridad Dicarma (Pob.) Mabini Extension Magsaysay South Maria Theresa Padre Crisostomo Quezon District (Pob.) Villa Ofelia-Caridad
53	3 3 1 0	Nueva Ecija	Cabanatuan City	Bantug Norte Magsaysay District Sangitan East
54	3 3 1 1	Nueva Ecija	Cabanatuan City	Bitas
55	3 3 1 2	Nueva Ecija	Cabanatuan City	Aduas Norte Cruz Roja Daang Sanle Valdefuente

ZONING FOR ADMINISTRATIVE DIVISION
FOR NUEVA ECija PROVINCE(2)

No.	Zone No.	Province	Municipality	Barangay
56	3 3 1 3	Nueva Ecija	Cabanatuan City	Bagong Sikat Lagare Obrero
57	3 3 1 4	Nueva Ecija	Cabanatuan City	San Isidro Valle Cruz
58	3 3 1 5	Nueva Ecija	Cabanatuan City	Bakero Bangad Campo Tinio Lourdes (Matungal-tungal)
59	3 3 1 6	Nueva Ecija	Cabanatuan City	Cabu Calawagan (Kalawagan) Communal Macatbong Pangatian
60	3 3 1 7	Nueva Ecija	Cabanatuan City	Bagong Buhay Patalac
61	3 3 1 8	Nueva Ecija	Cabanatuan City	Kalikid Norte Kalikid Sur
62	3 3 1 9	Nueva Ecija	Cabanatuan City	Bakod Bayan Mabini Homesite Santa Arcadia
63	3 3 2 0	Nueva Ecija	Cabanatuan City	Sumacab Este Sumacab South
64	3 3 2 1	Nueva Ecija	Cabanatuan City	Balite Caalibangbangan Caudillo Cinco-Cinco Ibabao Bana Palagay Pamaldan Pollilo Samon Santo Nino Talipapa
65	3 3 2 2	Nueva Ecija	Cabanatuan City	Barlis Buliran Dalampang Mayapyap Norte Mayapyap Sur Pula Sapang
66	3 4 0 0	Nueva Ecija	Cabiao	All Barangays
67	3 5 0 0	Nueva Ecija	Carranglan	All Barangays
68	3 6 0 0	Nueva Ecija	Cuyapo	All Barangays
69	3 7 0 0	Nueva Ecija	Gabaldon	All Barangays
70	3 8 0 1	Nueva Ecija	Gapan	San Nicolas
71	3 8 0 2	Nueva Ecija	Gapan	San Vicente (Pob.)

ZONING FOR ADMINISTRATIVE DIVISION
FOR NUEVA ECJA PROVINCE(3)

No.	Zone No.	Province	Municipality	Barangay
72	3 8 0 3	Nueva Ecija	Gapan	Santo Nino
73	3 8 0 4	Nueva Ecija	Gapan	Pambuan San Lorenzo (Pob.)
74	3 8 0 5	Nueva Ecija	Gapan	Bayanihan
75	3 8 0 6	Nueva Ecija	Gapan	Mangino Puting Tubig Santa Cruz
76	3 8 0 7	Nueva Ecija	Gapan	Balante Malimba Marelo Parcutela San Roque Santo Cristo Norte Santo Cristo Sur
77	3 8 0 8	Nueva Ecija	Gapan	Bulak Bungo Kapalangan Mabunga Maburak Mahipon Makabaclay
78	3 9 0 0	Nueva Ecija	Natividad	All Barangays
79	4 0 0 0	Nueva Ecija	General Tino	All Barangays
80	4 1 0 0	Nueva Ecija	Guimba	All Barangays
81	4 2 0 0	Nueva Ecija	Jaen	All Barangays
82	4 3 0 0	Nueva Ecija	Laur	All Barangays
83	4 4 0 0	Nueva Ecija	Licab	All Barangays
84	4 5 0 0	Nueva Ecija	Llanera	All Barangays
85	4 6 0 0	Nueva Ecija	Lupao	All Barangays
86	4 7 0 1	Nueva Ecija	Munoz	Catalanacan Poblacion East Poblacion North Poblacion South Poblacion West
87	4 7 0 2	Nueva Ecija	Munoz	Bical Calisitan Franza Linglingay Mangandingay Mapangpang Pandalla Rang-ayan Rizal San Andres San Felipe Villa Isla Villa Santos

ZONIING FOR ADMINISTRATIVE DIVISION
FOR NUEVA ECIIJA PROVINCE(4)

No.	Zone No.	Province	Municipality	Barangay
88	4 7 0 3	Nueva Ecija	Munoz	Bagong Sikat
				Balante
				Bantug
				Cabisuculan
				Licaong
				Magtanggol
				Maragol
				Sapang Cawayan
				Villa Cuizon
				89
Curva				
Gabaldon				
Labney				
Maligaya				
Matingkis				
Naglabrahan				
Palusapis				
San Antonio				
Villa Nati				
90	4 8 0 0	Nueva Ecija	Mapicuan	All Barangays
91	4 9 0 0	Nueva Ecija	Panayan City	All Barangays
92	5 0 0 0	Nueva Ecija	Pantabangan	All Barangays
93	5 1 0 0	Nueva Ecija	Penaranda	All Barangays
94	5 2 0 0	Nueva Ecija	Qezon	All Barangays
95	5 3 0 0	Nueva Ecija	Rizal	All Barangays
96	5 4 0 0	Nueva Ecija	San Antonio	All Barangays
97	5 5 0 1	Nueva Ecija	San Isidro	Malapit
				Poblacion
				San Roque
				Tabon
98	5 5 0 2	Nueva Ecija	San Isidro	Alua
				Calaba
				Santo Cristo
99	5 5 0 3	Nueva Ecija	San Isidro	Mangga
				Pulo
				Sub-Total
100	5 6 0 1	Nueva Ecija	San Jose City	Calaocan
101	5 6 0 2	Nueva Ecija	San Jose City	Bagong Sikat
				Canuto Ramos Pob. (District III)
				Kita-Kita
				Manicla
				Palestina
				Pinili
				Porais
				Rafael Rueda, Sr. Pob. (District I)
				San Agustin
				San Juan
				Sibut
				Tayabo
				Villa Floresca
				Villa Marina

ZONING FOR ADMINISTRATIVE DIVISION
FOR NUEVA ECIIJA PROVINCE(5)

No.	Zone No.	Province	Municipality	Barangay
102	5 6 0 3	Nueva Ecija	San Jose City	Parang Mangga Raymundo Eugenio Pob. (District IV)
103	5 6 0 4	Nueva Ecija	San Jose City	Culaylay Dizol Ferdinand E. Marcos Pob. (District I) Kaliwanagan San Mauricio Tondod Villa Joson (Parilla)
104	5 6 0 5	Nueva Ecija	San Jose City	Abar 2nd Abar 1st Santo Nino 2nd Santo Nino 3rd Tabulac
105	5 6 0 6	Nueva Ecija	San Jose City	A. Pascual Caanawan Camanacsacan Crisanto Sanchez Pob. (District V) Malasin Santo Nino 1st Santo Tomas Sinipit Bubon Tulat
106	5 7 0 0	Nueva Ecija	San Leonardo	All Barangays
107	5 8 0 1	Nueva Ecija	Sta. Rosa	Aguinaldo Burgos Mabini San Gregorio Tramo
108	5 8 0 2	Nueva Ecija	Sta. Rosa	San Mariano Zamora (Pob.)
109	5 8 0 3	Nueva Ecija	Sta. Rosa	Berang Inspector Isla La Fuente Lourdes Maiolio Rajal Centro Rajal Norte Rajal Sur San Isidro San Josep San Pedro Santa Teresita Santo Rosario Sapsap
110	5 8 0 4	Nueva Ecija	Sta. Rosa	Cojuangco (Pob.) Del Pilar Gomez Liwayway Luna

ZONING FOR ADMINISTRATIVE DIVISION
FOR NUEVA ECija PROVINCE(6)

No.	Zone No.	Province	Municipality	Barangay
110	5 8 0 4	Nueva Ecija	Sta. Rosa	Malacanag
				Mapalad
				Rizal (Pob.)
				Soledad
				Tagpos
				Valenzuela (Pob.)
111	5 9 0 1	Nueva Ecija	Sto. Domingo	Buasao
				Cabugao
				Concepcion
				Dolores
				Hulo
				Malasin
				Malaya (Pook Malaya)
				Mambarao
				Poblacion
				Pulong Buli
				Sagaba
				San Agustin
				San Fabian
				San Pascual
Santa Rita				
112	5 9 0 2	Nueva Ecija	Sto. Domingo	Baloc
				Burgos
				Casulucan
				Comitang
				General Luna
				Mabini
				Malayantoc
				San Francisco
				Santo Rosario
113	6 0 0 1	Nueva Ecija	Talavera	Esquerra District (Pob.)
				Maestrang Kikay (Pob.)
				Marcos District (Pob.)
				Pag-asa (Pob.)
				Poblacion Sur
				Purok Matias (Pob.)
114	6 0 0 2	Nueva Ecija	Talavera	Baluga
				Bantug
				Dinarayat
				La Torre
				Mamandil
				Pinagpanaan
				San Miguel Na Munti
115	6 0 0 3	Nueva Ecija	Talavera	Bagong Sikat
				Dimasalang Norte
				Dimasalang Sur
				Gulod
				Homestead I

ZONIING FOR ADMINISTRATIVE DIVISION
FOR NUEVA ECIIA PROVINCE(7)

No.	Zone No.	Province	Municipality	Barangay
115	6 0 0 3	Nueva Ecija	Talavera	Homestead II
				Minabuyoc
				Paludpod
				Pula
				Sampaloc
				San Ricardo
116	6 0 0 4	Nueva Ecija	Talavera	Andal Alino (Pob.)
				Bagong Silang
				Bantug Hacienda
				Bantug Hamog (Basang Hamog)
				Bugtong na Buli
				Bulac
				Bumay
				Caaniplahan
				Cabubulaonan
				Calipahan
				Campos
				Caputican
				Casulucan Este
				Collado
				Kinalanguyan
				Lomboy
				Mabuhay
				Pantoc Bulac
				Pulong San Miguel (Pob.)
				San Pascual
				Sibul
				Sicsican Matanda
				Tabacao
				Tagaytay
				Valle
				Bakal I
Bakal II				
Bakal III				
Matingkis				
117	6 1 0 0	Nueva Ecija	Talcutug	All Barangays
118	6 2 0 0	Nueva Ecija	Zaragosa	All Barangays

**ZONING FOR ADMINISTRATIVE DIVISION FOR PAMPANGA
PROVINCE AND OTHER AREAS(1)**

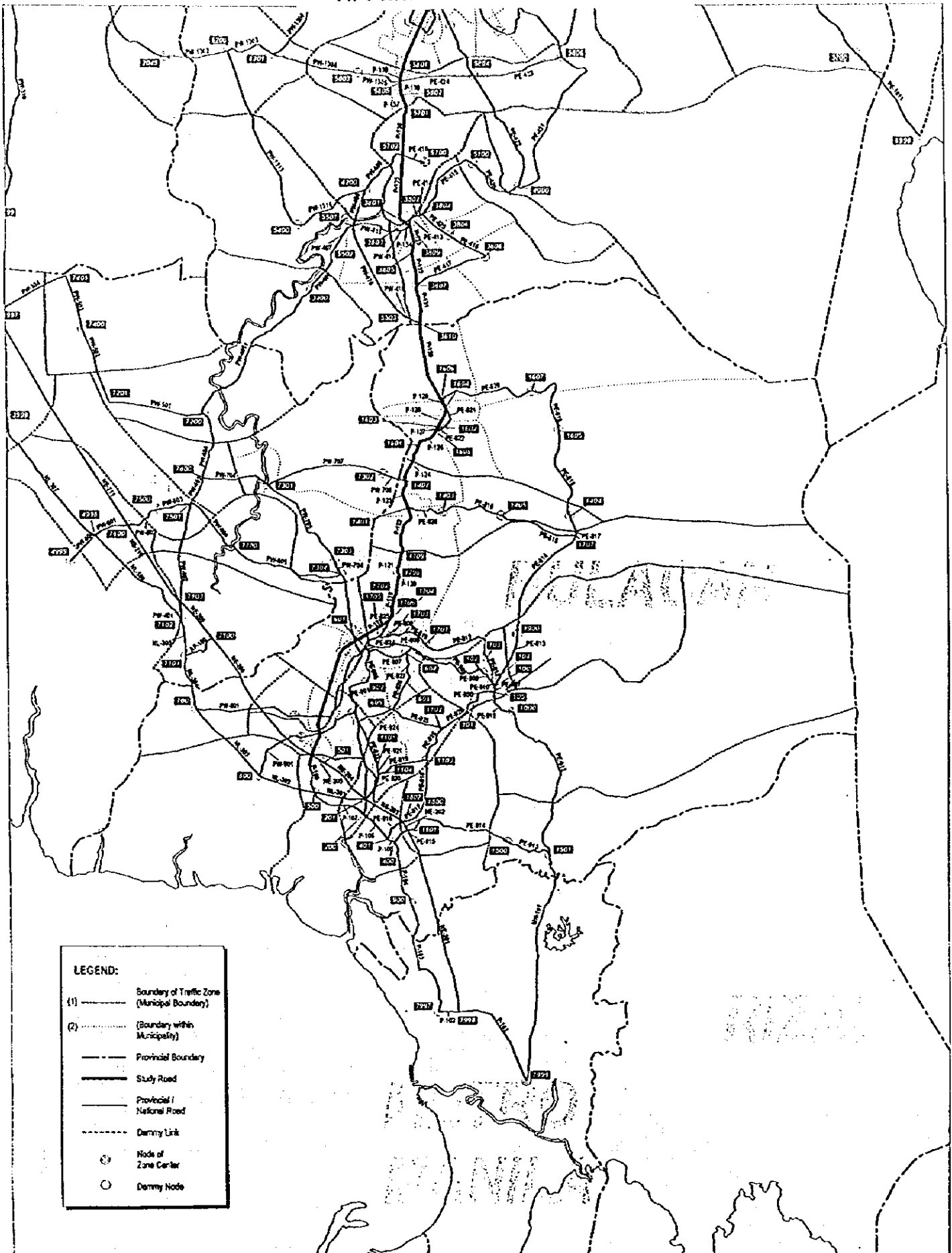
No.	Zone No.	Region/Province	Municipality	Barangay
119	7 1 0 0	Pampanga	San Simon	All Barangays
			Apalit	All Barangays
120	7 2 0 0	Pampanga	Arayat	All Barangays
121	7 3 0 1	Pampanga	Candaba	Buas (Pob.)
				Gulap
				Lanang
				Mandasig
				Paralaya (Pob.)
				Pasig
				Pescadores (Pob.)
				San Agustin (Pob.)
122	7 3 0 2	Pampanga	Candaba	Barangca
				Cuayang Bugtong
				Lourdes
				Magumbali
				Mandili
				Mapaniqui
				Pangclara
				Pansinao
				Pulong Gubat
				Salapungan
				Santo Rosario
				Tagulod
123	7 3 0 3	Pampanga	Candaba	Bahay Pare
				Bambang
				Barit
				Dalayap
				Dulong Ilog
				Mangga
				Paigui
				Pulong Palazan
				Talang
				Tenejero
				Vizal San Pablo
				Vizal Santo Cristo
				Vizal Santo Nino
124	7 4 0 0	Pampanga	Magalang	All Barangays
125	7 5 0 0	Pampanga	Mexico	All Barangays
126	7 6 0 0	Pampanga	San Fernando	All Barangays
127	7 7 0 0	Pampanga	San Luis	All Barangays
128	7 8 0 0	Pampanga	Sta Ana	All Barangays
129	1 9 9 9	Luzon North West		All Barangays
130	2 0 1 9	Tarlac	Other tarlac	All Barangays
131	2 0 2 9	Tarlac	Pura	All Barangays
132	2 0 3 9	Tarlac	Victoria	All Barangays
133	2 0 4 9	Tarlac	Lapaz	All Barangays

**ZONING FOR ADMINISTRATIVE DIVISION FOR PAMPANGA
PROVINCE AND OTHER AREAS(2)**

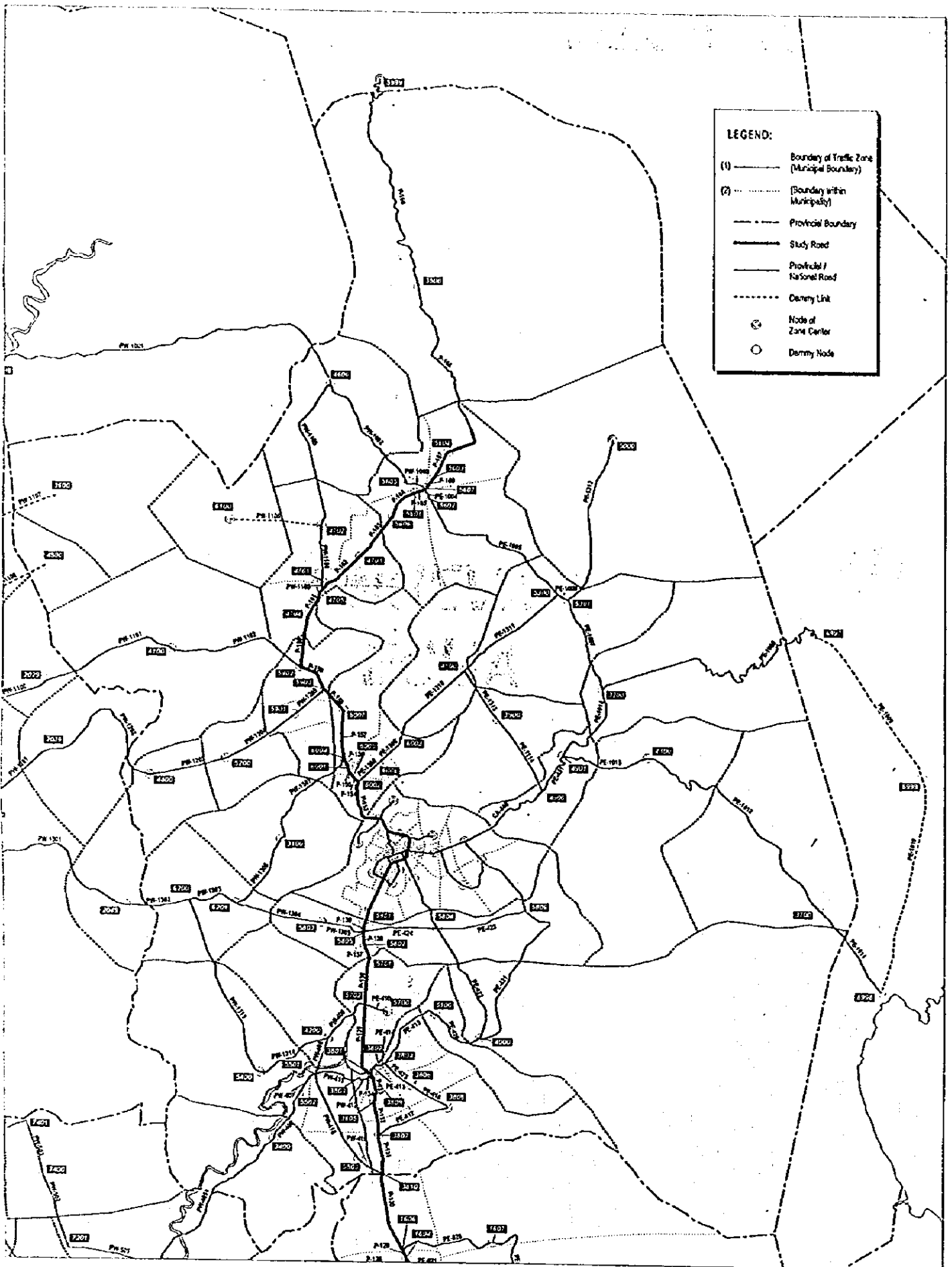
No.	Zone No.	Region/Province	Municipality	Barangay
134	3 9 9 9	Pampanga	Mabalakat	All Barangays
			Angeles City	All Barangays
			Porac	All Barangays
		Zambales	All Provinces	All Barangays
135	4 9 9 9	Pampanga	Floridablanca	All Barangays
			Lubao	All Barangays
			Sasumuan	All Barangays
			Masantol	All Barangays
			Guagua	All Barangays
			Minalin	All Barangays
			Sto Tomas	All Barangays
			Bacolor	All Barangays
			Macabebe	All Barangays
			Sta Rita	All Barangays
			Bataan	All Provinces
		136	5 9 9 9	Luzon North East
137	6 9 9 9	Aurora	All Provinces	All Barangays
138	7 9 9 9	NCR & Rergion IV	All Provinces	All Barangays

Note: OD matrices was actually prepared not for 138 zones but for 137 zones, by integrating zone 41 (Bulacan/Dona Remedios Trinidad) with zone 1 (Bulacan)/Angat and renumbering zone 42 to 138 shifting their numbers downward by minus one.

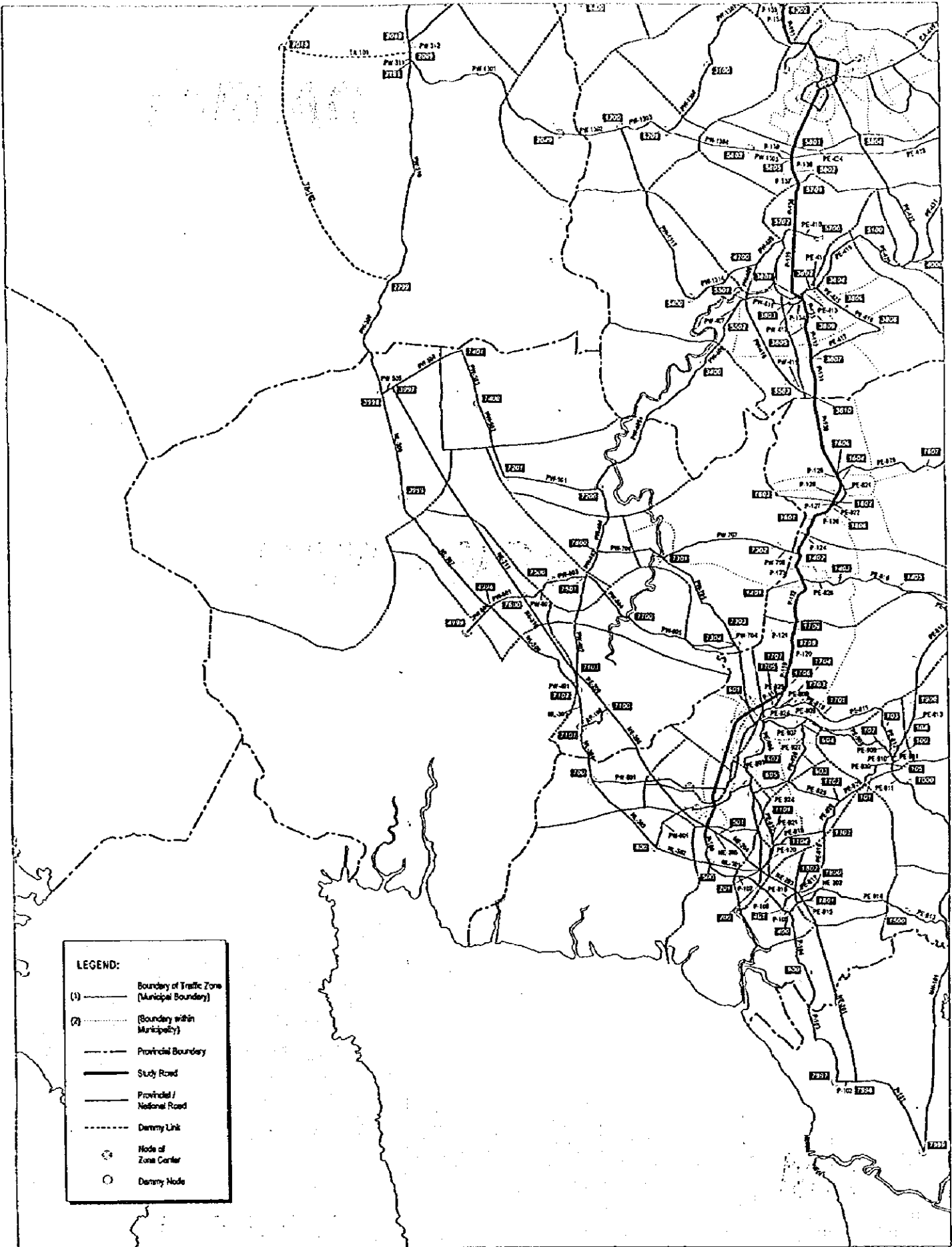
APPENDIX 4.4-2 LINK NETWORK



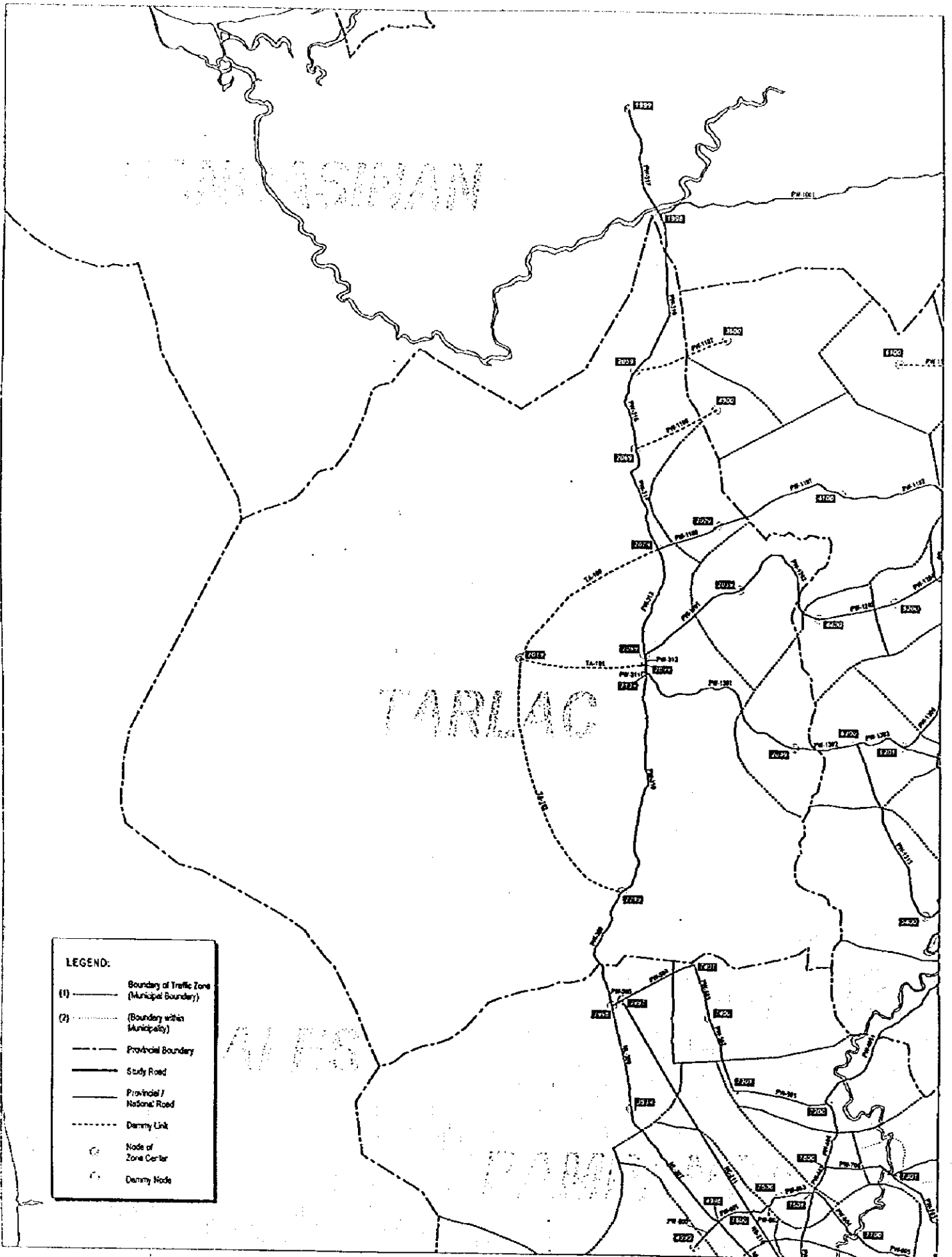
MAP FOR ZONING & LINKNETWORK FOR BULACAN PROVINCE



MAP FOR ZONING & LINKNETWORK FOR NUEVA ECIIJA PROVINCE



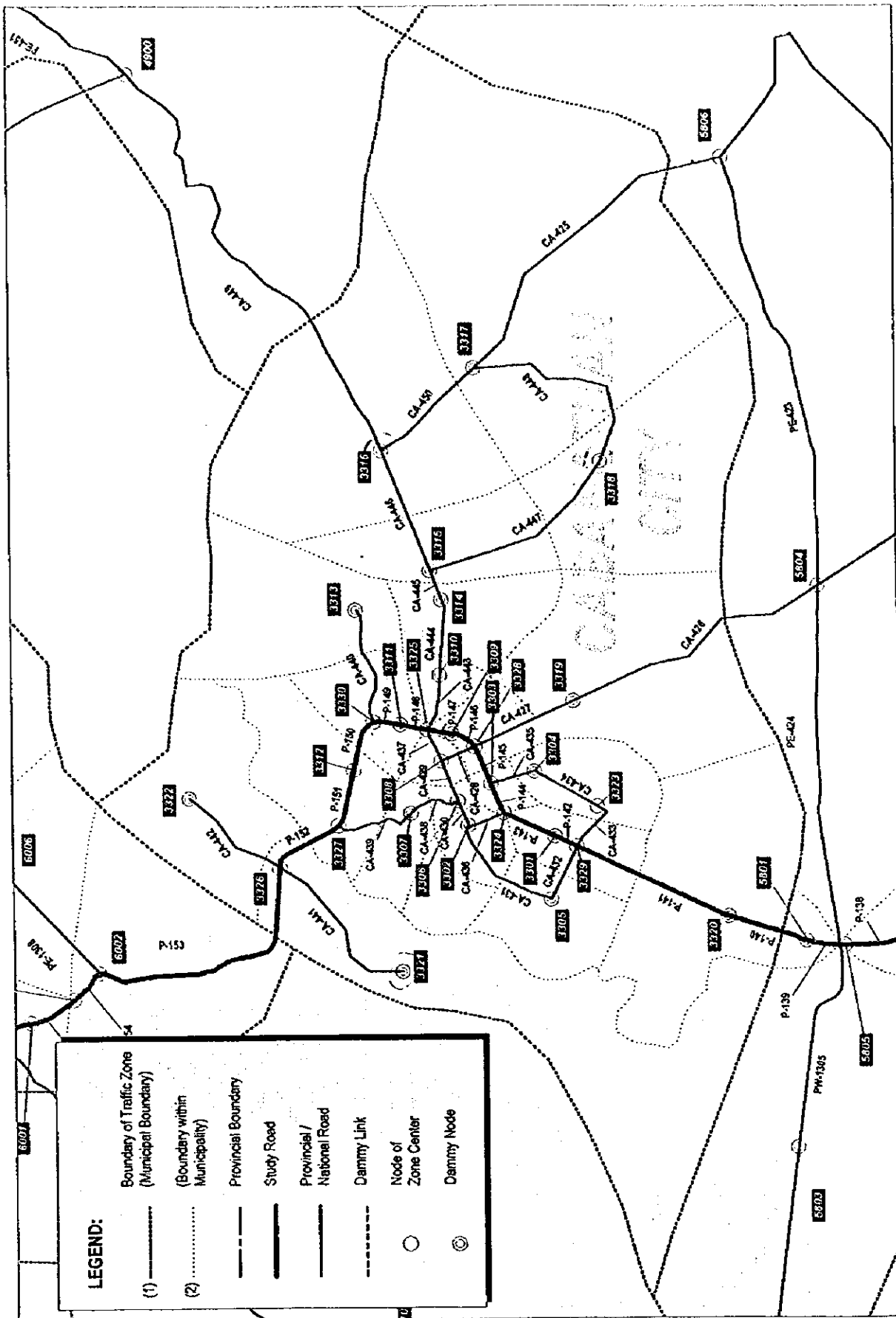
MAP FOR ZONING & LINKNETWORK FOR PAMPANGA PROVINCE



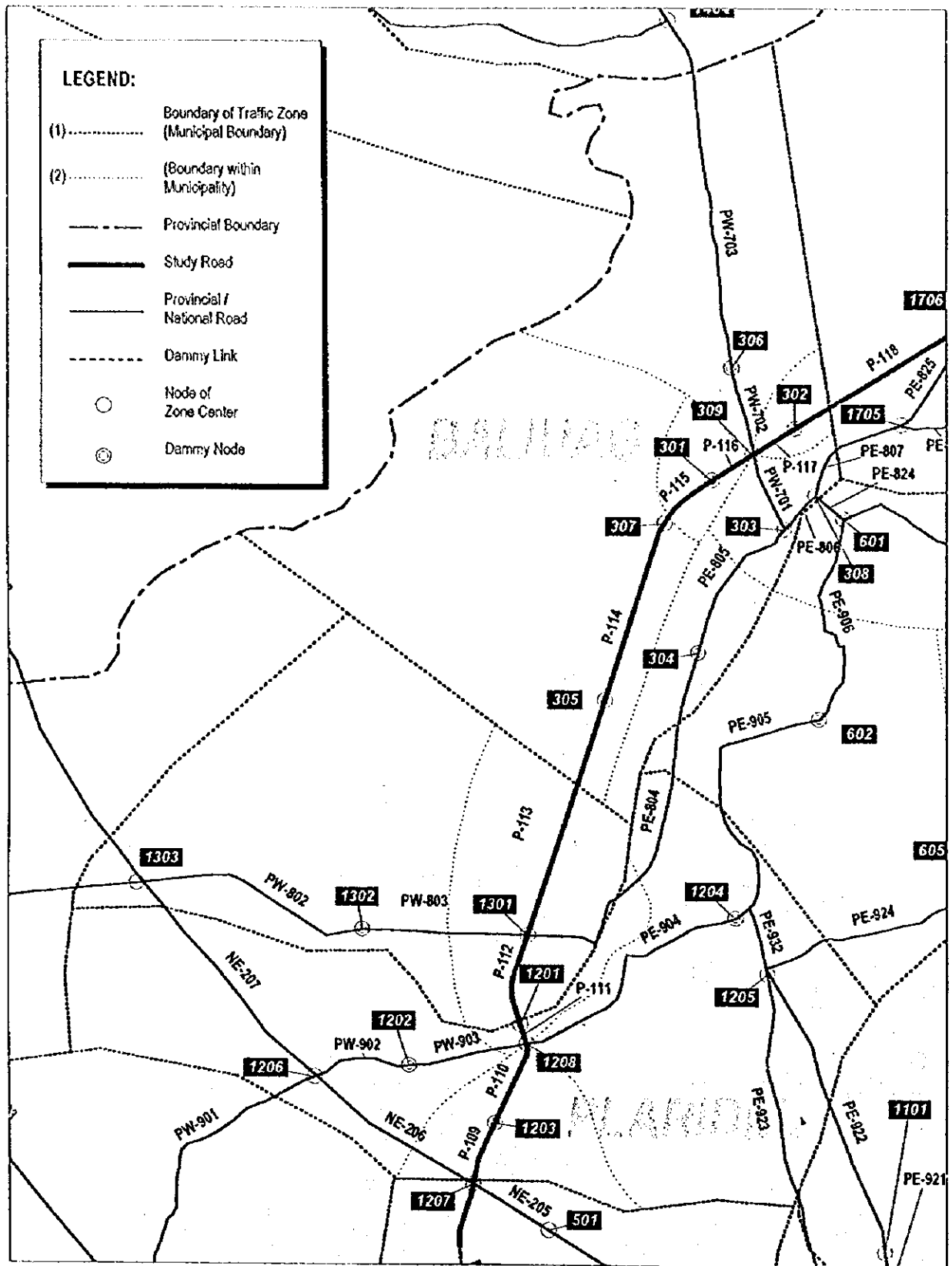
LEGEND:

(1) ———	Boundary of Traffic Zone (Municipal Boundary)
(2) - - - - -	(Boundary within Municipality)
—————	Provincial Boundary
—————	Study Road
—————	Provincial / National Road
- - - - -	Dummy Link
○	Node of Zone Center
○	Dummy Node

MAP FOR ZONING & LINKNETWORK FOR TARLAC PROVINCE



MAP ZONING AND LINK NETWORK FOR CABANATUAN CITY



MAP ZONING AND LINK NETWORK FOR BALIUAG & PLARIDEL