

APPENDICES



APPENDIX 2-1 (1)

GROSS NATIONAL PRODUCT BY INDUSTRIAL ORIGIN AND NATIONAL INCOME AT CURRENT PRICES

BAHT

Line	1976		1977		1978		1979		1980	
	Millions of Baht	%	Millions of Baht	%	Millions of Baht	%	Millions of Baht	%	Millions of Baht	%
1 Agriculture.....	104,667	31.0	110,929	28.2	129,094	27.5	147,076	26.4	176,303	26.2
2 Crops	77,509	23.0	79,069	20.1	96,180	20.5	107,980	19.4	128,527	19.1
3 Livestock.....	12,354	3.6	14,409	3.6	13,503	2.9	16,954	3.1	23,455	3.5
4 Fisheries.....	9,792	2.9	12,456	3.2	13,806	2.8	13,017	2.3	13,710	2.0
5 Forestry.....	5,002	1.5	4,996	1.3	6,325	1.3	9,125	1.6	10,611	1.6
6 Mining and quarrying.....	5,174	1.5	8,139	2.1	10,610	2.2	12,614	2.3	14,444	2.1
7 Manufacturing.....	63,025	18.7	74,676	19.0	89,089	19.0	109,740	19.7	125,830	18.7
8 Construction	15,784	4.7	20,251	5.1	24,844	5.3	29,240	5.3	39,011	5.8
9 Electricity and water supply..	3,745	1.1	4,384	1.1	5,168	1.1	6,075	1.1	5,802	0.8
10 Transportation and commu- nication.....	21,828	6.5	24,706	6.3	29,606	6.3	37,844	6.8	47,746	7.1
11 Wholesale and retail trade..	59,391	17.6	74,931	19.1	90,053	19.2	102,853	18.5	124,998	18.6
12 Banking, insurance and real estate....	16,075	4.8	19,537	5.0	24,624	5.2	31,396	5.6	39,021	5.8
13 Ownership of dwellings.....	4,840	1.4	5,272	1.3	5,826	1.2	6,297	1.1	7,312	1.1
14 Public administration and defence...	13,571	4.0	14,810	3.8	17,943	3.8	21,623	3.9	28,831	4.3
15 Services	29,545	8.7	35,395	9.0	43,095	9.2	51,482	9.3	64,434	9.5
16 Gross Domestic Product (GDP)	337,635	100.00	393,030	100.0	469,962	100.0	556,240	100.0	673,732	100.0
17 plus: Net income from abroad..	- 1,261	-	- 2,014	-	- 5,402	-	- 9,791	-	- 14,406	-
18 Gross National Product (GNP)	336,374	-	391,016	-	464,560	-	546,449	-	659,326	-
19 Less: Indirect taxes.....	33,438	-	43,717	-	51,733	-	60,903	-	71,083	-
20 Capital consumption allo- wances..	24,041	-	28,609	-	34,428	-	41,887	-	50,888	-
21 National Income.....	278,596	-	318,690	-	378,389	-	443,659	-	537,355	-
22 Per Capta GNP.....	7,830	-	8,879	-	10,300	-	11,843	-	13,977	-

APPENDIX 2-1(2)

GROSS NATIONAL PRODUCT BY INDUSTRIAL ORIGIN AND ITS GROWTH RATES AT 1972 PRICES

Line	1976		1977		1978		1979		1980	
	Millions of Baht	Millions Growth of Baht Rates	Millions Growth of Baht Rates	Millions Growth of Baht Rates	Millions Growth of Baht Rates	Millions Growth of Baht Rates	Millions Growth of Baht Rates	Millions Growth of Baht Rates	Millions Growth of Baht Rates	Millions Growth of Baht Rates
1 Agriculture.....	65,898	65,537	-0.6	72,513	10.6	71,408	-1.5	73,924	3.5	73,924
2 Crops	49,013	46,794	-4.5	53,383	14.5	51,804	-3.3	53,942	4.1	53,942
3 Livestock.....	7,622	8,102	6.3	8,515	5.1	8,931	4.9	9,704	8.7	9,704
4 Fisheries.....	5,898	7,499	27.2	7,414	-1.1	7,281	-1.8	6,831	-6.2	6,831
5 Forestry.....	3,365	3,142	-6.6	3,001	-4.5	3,392	13.0	3,447	1.6	3,447
6 Mining and quarrying.....	2,906	3,526	21.3	4,104	16.4	4,531	10.4	4,896	8.0	4,896
7 Manufacturing.....	42,529	48,071	13.0	52,521	9.3	57,841	10.1	61,381	6.1	61,381
8 Construction.....	10,022	11,996	19.7	13,583	13.2	14,547	7.1	16,709	14.9	16,709
9 Electricity and water supply	3,642	4,144	13.8	4,500	8.6	5,178	15.1	5,813	12.3	5,813
10 Transportation and communication.....	13,366	14,474	8.3	16,205	12.0	17,663	9.0	18,996	7.5	18,996
11 Wholesale and retail trade..	38,821	41,213	6.2	43,658	5.9	45,497	4.2	47,049	3.4	47,049
12 Banking, insurance and real estate..	10,208	11,574	13.4	13,443	16.1	15,582	15.9	16,714	7.3	16,714
13 Ownership of dwellings.....	3,664	3,823	4.3	4,052	6.0	4,289	5.8	4,545	6.0	4,545
14 Public administration and defence.....	8,893	9,555	7.4	10,166	6.4	11,594	14.0	12,673	9.3	12,673
15 Services.....	21,276	23,260	9.3	26,352	13.3	28,777	9.2	31,676	10.1	31,676
16 Gross Domestic Product (GDP)	221,226	237,173	7.2	261,087	10.1	276,907	6.1	294,376	6.3	294,376
17 Plus: Net income from abroad...	-1,020	-1,575	-	-4,054	-	-7,010	-	-9,549	-	-9,549
18 Gross National Product (GNP)	220,205	235,598	7.0	257,043	9.1	269,897	5.0	284,827	5.5	284,827
19 GDP Deflator.....	152.6	165.7	-	180.0	-	200.9	-	228.9	-	228.9

*NOTE: *..... PRELIMINARY ESTIMATE

APPENDIX 2 - 2
GOVERNMENT REVENUE

ITEMS	YEAR	MILLION BAHT					
		1976 (%)	1977 (%)	1978 (%)	1979 (%)	1980 (%)	GROWTH RATE (%)
TOTAL REVENUE		43,602 (100)	54,064 (100)	65,208 (100)	78,175 (100)	95,775 (100)	21.7
TAXATION		39,260 (90.0)	49,391 (91.4)	60,252 (92.4)	73,637 (93.6)	88,473 (92.4)	22.7
OF WHICH INCOME TAXES		6,789 (15.6)	8,477 (15.7)	11,810 (18.1)	14,108 (17.9)	16,880 (17.6)	25.6
IMPORT & EXPORT DUTIES		10,860 (24.9)	14,142 (26.2)	16,627 (25.5)	20,306 (25.8)	22,842 (23.8)	20.4
BUSINESS TAXES		9,328 (21.4)	11,509 (21.3)	13,624 (20.9)	15,190 (19.3)	18,994 (19.3)	18.9
SELECTIVE SALES TAXES		8,705 (20.0)	10,316 (19.1)	12,045 (18.5)	16,265 (20.7)	21,308 (22.2)	25.1
OTHER TAXES		6,578 (15.1)	4,947 (9.2)	6,146 (9.4)	7,768 (9.9)	8,994 (9.4)	8.1
SALES & CHARGES		1,044 (2.4)	1,173 (2.2)	1,313 (2.0)	1,321 (1.7)	1,353 (1.4)	6.7
CONTRIBUTION FROM GOVERNMENT ENTER- PRISES & DIVIDENDS		2,018 (4.6)	1,563 (2.9)	1,411 (2.2)	1,754 (2.2)	2,319 (2.4)	3.5
MISCELLANEOUS REVENUE & INCOMES		1,280 (2.9)	1,937 (3.6)	2,232 (3.4)	1,963 (2.5)	3,630 (3.4)	30.0

SOURCE : MONTHLY REPORT OF COMMERCE, 1981

APPENDIX 2-3 INTERNATIONAL BALANCE OF PAYMENT

MILLION BAHT

ITEMS	YEAR	1975	1976	1977	1978	1979	1980
TRADE BALANCE		-20,161.2	-11,064.9	-25,598.8	-28,540.0	-47,063.1	-57,981.9
EXPORT (F.O.G)		44,364.5	60,361.2	70,462.8	82,250.8	106,881.2	132,095.1
IMPORT (C.I.F)		-64,525.7	-71,446.1	-96,004.8	-109,956.1	-153,463.5	-190,077.0
NON MENETARY		-	-	-56.8	-834.7	-470.8	
NET SERVICES		6,160.8	1,642.5	2,405.2	4,279.1	3,237.9	5,076
RECEIPTS		16,561.6	13,993.3	14,771.7	22,123.9	29,163.6	39,260.3
PAYMENTS		-10,390.8	-12,350.8	-12,366.5	-17,844.8	-25,925.7	-34,183.9
NET GOODS & SERVICES		-14,000.4	-9,442.4	-23,193.6	-24,260.9	-43,815.2	-52,905.5
UNREQUITED TRANSFERS		1,632.1	464.5	801.9	816.0	1,224.0	4,275.7
PRIVATE		1,134.5	100.8	443.3	128.0	461.9	1,529.9
GOVERNMENT		497.6	363.7	358.6	688.0	762.1	2,745.8
BALANCE ON GOODS,							
SERVICES & UNREQUITED		-12,368.3	-8,977.9	-22,391.7	-23,444.9	-42,591.2	-48,629.8
TRANSFERS							
CAPITAL MOVEMENT		7,754.7	9,263.6	13,966.9	14,858.3	33,766.8	50,068.3
DIRECT ENVESTMENT		1,744.8	1,614.1	2,163.8	1,010.8	1,047.7	3,815.8
OTHER PRIVATE							
LONG-TERM		3,554.2	2,507.1	5,738	6,059.1	20,603.9	33,086.2
OTHER PRIVATE							
SHORT-TERM		2,600.3	2,778.5	5,226.4	1,696.2	3,567.2	6,976.7
LOCAL GOVERNMENT							
PROJECT		-23.0	-13.1	-	-6.3	-	-
CENTRAL GOVERNMENT		-121.6	2,377	838.7	6,098.5	8,548.0	6,209.6
NET ERRORS & OMISSIONS		1,755.6	-366.5	886.9	-4,711.4	405.8	3,214.4
OVERALL BALANCE		-2858.0	-82.8	-7,537.9	-13,296.0	-7,925.0	5,179.3

NOTE : ----- OUTFLOW

SOURCE : BANK OF THAILAND

APPENDIX 2 - 4

VALUE OF EXPORT BY PRINCIPAL COMMODITIES

Commodities	Year	MILLION BAHT						GROWTH RATE			
		1976		1977		1978			1979		1980
RICE	8,603	14.2	13,382	18.8	10,425	12.6	15,592	14.4	19,505	14.6	22.7
RUBBER	5,297	8.7	6,164	8.7	8,030	9.7	12,351	8.8	12,400	9.3	23.7
TIN	2,972	4.9	4,541	6.4	7,229	8.7	9,253	8.6	11,347	8.5	39.8
MAIZE	5,676	9.3	3,345	4.7	4,275	5.1	5,643	5.2	7,296	5.5	6.4
TAPIOCA PRODUCTS	7,527	12.4	7,720	10.8	10,892	13.1	9,891	9.1	14,808	11.1	18.4
JUTE & KENAF	579	1.0	418	0.6	448	0.5	391	0.4	155	0.1	39.0
FRAWNS	1,347	2.2	1,170	1.6	1,500	1.8	2,372	2.2	1,959	1.5	9.8
TOBACCO LEAVES	699	1.1	924	1.3	1,160	1.4	1,243	1.2	1,376	1.0	18.5
SUGAR	6,843	11.3	7,445	10.5	3,969	4.8	4,797	4.4	2,975	2.2	23.1
MUNG BEANS	945	1.6	1,057	1.5	1,160	1.4	1,375	1.3	1,448	1.1	11.3
FLUORITE	267	0.4	230	0.3	206	0.2	252	0.2	314	0.2	4.1
SORGHUM	374	0.6	300	0.4	370	0.4	495	0.5	660	0.5	15.3
CEMENTS	378	0.6	217	0.3	34	0.1	33	0.1	48	0.1	67.5
TEAK	749	1.2	545	0.8	253	0.3	118	0.1	3	-	-
OTHER	18,541	30.5	23,740	33.3	33,114	39.9	44,393	11.0	58,961	44.2	33.5
TOTAL	60,797	100	71,198	100	83,065	100	108,179	100	133,247	100	21.7

SOURCE: BANK OF THAILAND

APPENDIX 3-1

NUMBER OF REGISTERED VEHICLE & TYPE IN THE COUNTRY 1975-1981

TYPE OF VEHICLE	THOUSAND							GROWTH RATE (1975-1979)
	1975	1976	1977	1978	1979	1980	1981	
PASSENGER CARS	294.0 (28.2)	298.4 (26.1)	371.3 (23.8)	362.4 (23.9)	387.3 (23.1)	411.8 (39.1)	437.0 (21.7)	7.5
MOTORCYCLES	479.5 (46.5)	511.5 (44.7)	645.7 (46.5)	714.1 (51.4)	793.3 (47.3)	852.6 (46.8)	951.8 (47.5)	13.4
MOTOR TRICYCLES	6.4 (0.6)	8.1 (0.7)	8.6 (0.6)	8.6 (0.6)	9.0 (0.5)	9.4 (0.5)	9.8 (0.5)	8.9
BUSES	22.7 (2.2)	19.6 (1.7)	27.4 (2.0)	28.1 (2.0)	28.4 (1.7)	29.9 (1.6)	31.4 (1.6)	5.8
VANS & TRUCKS	238.1 (23.1)	285.2 (24.9)	345.5 (24.9)	368.4 (26.5)	417.2 (24.9)	468.5 (25.7)	519.8 (26.0)	15.1
OTHER	24.1 (2.3)	22.1 (1.9)	31.3 (2.2)	37.5 (2.5)	42.8 (2.5)	48.0 (2.6)	53.3 (2.7)	15.4
TOTAL	1061.2 (100)	1145.0 (100)	1389.7 (100)	1519.1 (100)	1678.0 (100)	1820.2 (100)	2003.1 (100)	12.1

NOTE : 1979-1981 ESTIMATED

SOURCE : REPORT OF 1979 , DEPARTMENT OF HIGHWAY , MINISTRY OF COMMUNICATION

APPENDIX 3-2

LENGTH OF NATIONAL AND PROVINCIAL HIGHWAYS OPEN TO TRAFFIC FISCAL YEAR 1973 - 1975

KM

FISCAL YEAR	TYPE OF SURFACE	NATIONAL HIGHWAYS			PROVINCIAL HIGHWAYS	GRAND TOTAL
		PRIMARY	SECONDARY	TOTAL		
1973	Concrete	73,370.5	9.2	89.2	8.1	92.3
	Asphalt	5,680.8	5,300.4	10,981.2	2,552.1	13,533.3
	Crushed rock & Soil Agg.	73.9	933.6	1,007.5	4,039.1	5,046.6
	Total	5,829.7	6,243.2	12,077.9	6,599.3	18,672.2
1974	Concrete	99.5	9.1	108.9	8.6	117.2
	Asphalt	5,890.2	5,750.7	11,640.9	3,016.7	14,657.6
	Crushed rock & Soil Agg.	72.6	674.2	746.8	3,985.7	4,732.5
	Total	6,062.3	6,434.0	12,496.8	7,011.0	19,507.3
1975	Concrete	94.7	38.8	133.5	8.6	141.2
	Asphalt	5,914.2	5,790.2	11,706.2	3,387.2	14,657.6
	Crushed rock & Soil Agg.	72.6	745.8	818.4	4,043.3	4,732.5
	Total	6,081.5	6,576.6	12,658.1	7,439.1	19,507.3
1976	Concrete	94.7	38.8	133.5	8.0	141.5
	Asphalt	5,828.2	6,006.8	11,835.0	4,267.6	16,186.6
	Crushed rock & Soil rock	72.6	679.3	751.5	4,601.1	5,353.0
	Total	5,995.5	6,724.9	12,720.4	8,876.7	21,681.1
1977	Concrete	94.7	38.9	133.6	7.9	141.5
	Asphalt	5,834.4	6,165.8	12,000.2	4,912.1	16,996.3
	Crushed rock & Soil rock	72.6	649.7	722.3	5,021.7	5,744.0
	Total	6,001.7	6,854.4	12,856.1	9,941.7	22,881.8
1978	Concrete	94.7	19.9	114.6	6.1	120.7
	Asphalt	6,044.3	6,519.5	12,563.8	6,203.4	18,851.2
	Crushed rock & Soil rock	72.5	475.0	547.5	5,546.4	6,093.9
	Total	6,211.5	7,014.4	13,225.9	11,755.9	25,065.8
1979	Concrete	111.9	41.5	153.4	20.4	173.8
	Asphalt	6,346.2	7,012.9	13,359.2	8,108.9	21,568.1
	Crushed rock & Soil rock	68.5	138.9	207.4	5,548.6	5,756.0
	Total	6,526.6	7,193.3	13,820.0	13,677.9	27,497.9

SOURCE : STATISTICE SECTION, PLANNING DIVISION ,
DEPARTMENT OF HIGHWAYS

APPENDIX 3-3
SELECTED INDICATIONS FOR GROSS-NATIONAL
COMPARISON OF ROAD DENSITY

Country	Area (1000 km ²) (A)	Population (1000 persons) (P)	GNP (billion yen) (G)	Road Length (1000 km) (L)	Population Density (person/km ²) (P/A)	GNP Per Area (1000 yen/km ²) (G/A)	Road Density (m/km ²) (L/A)	Socio-economic intensity $\frac{(P/A)(G/A)}{(L/A)}$
INDIA	3,288	586,266	19,509	895.0	178	5,933	272	32.50
INDONESIA	1,492	127,586	4,776	35.6	86	3,201	24	16.59
JAPAN	372	109,671	132,725	699.1	295	356,788	1,871	324.43
KOREA	98	33,459	4,242	44.2	341	43,286	451	121.49
MALAYSIA	330	11,650	2,211	19.4	35	6,700	59	15.31
PAKISTAN	804	68,214	2,589	33.2	85	3,220	41	16.54
PHILIPPINES	300	41,457	4,248	104.2	138	14,160	347	44.20
THAILAND	514	41,023	3,975	54.9	80	7,733	108	24.87
DENMARK	43	5,045	9,840	65.7	117	228,837	1,528	163.63
FRANCE	547	52,507	86,382	794.0	96	157,920	1,452	123.13
WEST GERMANY	249	62,041	124,071	463.0	249	498,277	1,859	352.24
U.K.	244	55,968	56,928	366.7	229	233,311	1,503	231.14
ITALY	301	55,361	45,006	286.5	184	149,522	952	165.87
NETHERLAND	41	13,541	22,257	104.1	330	542,854	2,539	423.25
NORWAY	324	3,985	7,416	76.1	12	22,889	235	16.57
SWEDEN	450	8,161	18,303	97.4	18	40,673	216	27.06
BELGIUM	31	9,772	17,283	93.1	315	557,516	3,003	419.06
HUNGARY	93	10,478	11,817	99.8	113	127,065	1,073	119.82
SPAIN	505	35,225	19,002	315.0	70	37,628	624	51.32
SWITZERLAND	41	6,443	15,804	61.6	157	385,463	1,502	246.00
YUGOSLAVIA	256	21,153	7,140	78.7	83	27,891	307	48.11
MEXICO	1,973	58,118	19,509	426.1	29	9,888	216	16.93
U.S.A.	9,363	211,909	419,400	6,140.9	23	44,793	656	32.10

NOTE : 1/ INCLUDING ARE ROADS UNDER DOH, ARD AND FWD
SOURCE: INTERNATIONAL ROAD FOUNDATION, 1977

APPENDIX 3 - 4

BUDGET COMPARISON OF THE GOVERNMENT TO THE DEPARTMENT OF HIGHWAY IN 1969-1979

MILLION BAHT			
FISCAL YEAR	GOVERNMENT BUDGET	HIGHWAY BUDGET	RATIO IN PERCENTAGE
1969	23,960.0	2,611.9	10.9
1970	27,299.0	2,933.5	10.7
1971	28,645.0	3,052.1	10.7
1972	29,000.0	2,596.5	9.0
1973	32,030.0	2,845.5	8.9
1974	39,027.6	3,069.9	7.9
1975	50,500.0	3,745.0	7.4
1976	62,650.0	4,633.0	7.4
1977	68,790.0	4,444.4	6.5
1978	81,000.0	5,322.6	6.6
1979	92,000.0	6,177.4	6.7

SOURCE : FINANCE DIVISION, DEPARTMENT OF HIGHWAY

TRAFFIC COUNT ON RAMA VI BRIDGE

APPENDIX 4-1(1) OUTBOUND (FROM THONBURI TO BANGKOK)

HOUR	Pedestrian Bicycle	Motor- Cycle	Private Car	Taxi	Bus (Light) Medium	Bus (Heavy)	Truck (Light) Medium	Truck (Heavy)	Total Except Pedestrian & M/C
6.00-7.00	0	88	468	50	15	134	81	6	754
7.00-7.30	0	62	470	20	8	61	36	1	596
7.30-8.00	0	141	461	54	8	50	51	4	628
8.00-8.30	1	56	360	36	10	45	33	0	484
8.30-9.00	0	100	280	45	4	34	63	8	434
9.00-10.00	0	89	307	76	13	82	203	37	718
10.00-11.00	0	78	283	80	12	65	155	22	617
11.00-12.00	0	95	387	68	1	68	185	25	734
12.00-13.00	0	72	292	68	7	72	181	32	652
13.00-14.00	0	106	275	72	11	76	195	60	669
14.00-15.00	1	78	226	47	47	33	78	55	486
15.00-16.00	2	96	319	73	65	81	81	36	655
16.00-17.00	5	130	543	50	18	99	73	1	784
17.00-18.00	8	103	519	61	27	95	67	3	672
18.00-19.00	22	104	259	75	95	105	100	33	667
19.00-20.00	0	96	438	88	37	62	37	6	668
20.00-21.00	2	71	155	58	31	60	47	11	362
21.00-22.00	0	47	146	49	14	41	30	13	293
TOTAL	41	1612	6088	1070	423	1263	1696	353	10893
22.00-23.00	0	17	36	27	1	9	1	15	89
23.00-24.00	2	24	75	73	4	18	9	18	197
24.00-1.00	0	14	46	42	2	7	13	15	125
1.00-2.00	5	4	16	33	3	1	10	11	74
2.00-3.00	2	5	6	30	0	0	20	7	63
3.00-4.00	2	1	16	13	6	2	5	4	46
4.00-5.00	8	4	7	16	16	9	5	14	67
5.00-6.00	12	5	25	15	30	40	8	21	139
TOTAL	31	74	227	249	62	86	71	105	800
GRAND TOTAL	72	1686	6315	1319	485	1349	1767	458	11693

INBOUND

HOUR	Pedestrian Bicycle	Motor- Cycle	Private Car	Taxi	Bus (Light) Medium	Bus (Heavy)	Truck (Light) Medium	Truck (Heavy)	Total Except Pedestrian & H/C
6.00-7.00	95	77	178	57	9	105	69	27	445
7.00-7.30	62	79	232	41	10	43	9	2	337
7.30-8.00	101	107	242	37	9	44	13	3	348
8.00-8.30	44	42	211	44	7	48	18	0	328
8.30-9.00	41	91	214	44	3	44	38	8	351
9.00-10.00	46	91	287	86	6	76	124	45	624
10.00-11.00	49	116	238	85	4	67	138	53	585
11.00-12.00	58	123	257	69	4	62	151	59	602
12.00-13.00	50	74	284	70	2	71	112	51	590
13.00-14.00	31	94	237	61	2	72	134	52	558
14.00-15.00	19	53	219	46	32	50	55	54	456
15.00-16.00	15	70	322	53	28	69	82	81	635
16.00-17.00	21	122	781	45	17	114	83	2	1042
17.00-18.00	14	109	672	74	13	101	74	10	944
18.00-19.00	17	89	376	73	32	98	70	51	700
19.00-20.00	10	71	252	69	22	76	52	27	498
20.00-21.00	9	55	210	62	7	71	36	6	392
21.00-22.00	6	33	197	67	6	58	20	11	359
TOTAL	688	1496	5409	1083	213	1269	1278	542	9794
22.00-23.00	0	10	38	17	17	22	1	5	100
23.00-24.00	2	24	75	73	8	15	8	5	184
24.00-1.00	0	19	38	48	0	5	12	6	109
1.00-2.00	2	10	16	22	0	0	14	5	57
2.00-3.00	0	6	14	17	0	0	15	6	52
3.00-4.00	0	0	5	17	5	1	13	6	47
4.00-5.00	1	3	14	17	0	9	31	15	86
5.00-6.00	1	5	30	15	4	36	32	19	136
TOTAL	6	77	230	226	34	88	126	67	771
GRAND TOTAL	694	1573	5639	1309	247	1357	1404	609	10565

APPENDIX 4-1(2)

INBOUND (FROM THONBURI TO BANGKOK)

TRAFFIC COUNT ON KRUNGTHON BRIDGE

OUTBOUND

JULY 30 1981 (TUESDAY)

HOUR	MOTOR-PRIVATE CYCLE CAR	TAXI	BUS			TRUCK			TOTAL EXCEPT H/C
			LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	
6.00-6.30	50	125	8	18	54	15	48	-	339
6.30-7.00	150	642	123	30	59	18	20	-	892
7.00-7.30	215	846	133	26	49	13	8	-	1077
7.30-8.00	171	810	111	26	46	10	-	2	1006
8.00-8.30	203	643	152	21	53	-	4	1	874
8.30-9.00	150	409	135	20	44	-	8	1	619
9.00-10.00	192	405	216	26	81	63	110	28	929
10.00-11.00	151	396	148	22	67	107	98	160	988
11.00-12.00	177	413	249	1	90	97	79	135	1091
12.00-13.00	152	349	183	19	60	45	67	192	915
13.00-14.00	253	416	186	14	58	67	67	54	862
14.00-15.00	338	413	194	29	71	61	64	16	848
15.00-16.00	194	542	244	29	88	62	52	2	1019
16.00-16.30	109	388	170	19	41	15	12	-	645
16.30-17.00	94	548	118	20	35	30	1	2	754
17.00-17.30	109	448	188	14	51	38	7	1	747
17.30-18.00	72	243	178	17	41	12	-	-	491
18.00-18.30	84	224	132	15	34	32	27	-	465
18.30-19.00	102	190	151	22	33	47	25	1	471
19.00-20.00	156	473	280	31	61	105	20	3	974
20.00-21.00	136	330	234	23	48	81	7	60	785
21.00-22.00	111	290	207	8	44	57	15	135	756
Total	3369	9543	3803	476	1208	975	729	793	17547
22.00-23.00	79	194	174	11	18	3	10	64	474
23.00-24.00	44	119	197	5	6	19	8	41	395
24.00-1.00	27	57	192	2	1	17	1	36	307
1.00-2.00	12	58	165	4	1	7	10	19	265
2.00-3.00	2	24	90	-	1	10	5	26	156
3.00-4.00	3	21	72	1	2	6	4	29	135
4.00-5.00	8	28	59	3	12	18	17	53	201
5.00-6.00	33	75	110	13	42	30	28	30	329
Total	208	577	1069	3	39	83	110	83	2262
Grand Total	3577	10120	4872	23	515	1085	812	1091	19809

HOUR	MOTOR-PRIVATE CYCLE CAR	TAXI	BUS			TRUCK			TOTAL EXCEPT H/C
			LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	
6.00-6.30	18	65	2	8	20	18	20	2	200
6.30-7.00	69	188	5	21	37	40	17	3	391
7.00-7.30	95	276	5	25	40	30	4	3	463
7.30-8.00	120	370	5	14	45	38	3	-	555
8.00-8.30	134	408	5	30	55	44	2	-	662
8.30-9.00	105	272	9	24	52	60	10	1	590
9.00-10.00	196	431	2	28	84	165	110	6	1055
10.00-11.00	167	397	1	30	78	176	87	64	1048
11.00-12.00	216	516	1	31	68	184	86	62	1160
12.00-13.00	106	236	8	31	85	130	70	55	760
13.00-14.00	175	360	7	29	68	155	77	58	964
14.00-15.00	191	457	2	21	82	169	71	126	1137
15.00-16.00	263	625	2	47	100	189	89	10	1306
16.00-16.30	179	571	6	41	93	98	7	-	973
16.30-17.00	162	700	7	30	36	82	13	5	961
17.00-17.30	195	608	9	37	57	101	2	-	945
17.30-18.00	213	504	4	21	58	95	7	-	861
18.00-18.30	118	370	16	18	35	2	38	-	599
18.30-19.00	115	372	8	19	42	2	24	-	580
19.00-20.00	273	702	127	43	83	7	31	3	1326
20.00-21.00	223	571	128	19	53	4	17	1	1053
21.00-22.00	167	550	88	26	35	4	9	56	1043
Total	3500	9549	447	603	1306	1793	794	455	18632
22.00-23.00	117	305	68	8	29	4	6	36	683
23.00-24.00	59	127	225	2	12	1	4	71	464
24.00-1.00	33	127	218	4	-	2	3	48	426
1.00-2.00	18	80	165	3	-	3	1	36	295
2.00-3.00	18	54	177	2	-	2	2	44	287
3.00-4.00	8	18	58	2	-	1	4	29	121
4.00-5.00	2	17	63	11	4	3	2	27	133
5.00-6.00	22	39	121	32	8	1	9	48	288
Total	277	767	1254	179	33	74	16	35	2697
Grand Total	3777	10316	4339	826	616	1380	829	794	21329

APPENDIX 4-I(3)

TRAFFIC COUNT ON PRA PIN KLAO BRIDGE

JULY 6 1981 (MONDAY)

INBOUND (FROM THONBURI TO BANGKOK)

HOUR	MOTOR-CYCLE	PRIVATE CAR	TAXI	BUS			TRUCK			TOTAL C/CEPT H/C
				LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	
6.00-6.30	139	191	138	17	10	63	186	19	-	624
6.30-7.00	235	759	250	25	7	112	167	78	-	1398
7.00-7.30	335	1514	216	46	10	85	177	20	-	2068
7.30-8.00	463	1534	230	61	11	70	90	-	-	1996
8.00-8.30	581	1505	180	38	5	89	146	-	-	1963
8.30-9.00	447	1272	265	67	-	144	90	227	1	2066
9.00-9.30	417	1184	445	19	-	30	405	267	-	2350
9.30-10.00	427	926	305	30	-	108	122	126	20	1637
10.00-11.00	402	919	335	36	-	106	86	65	6	1553
11.00-12.00	340	775	415	50	-	122	52	36	2	1452
12.00-13.00	418	1021	475	39	-	105	113	51	1	1805
13.00-14.00	412	981	295	11	52	112	177	136	11	1775
14.00-15.00	421	1105	170	28	52	120	195	98	1	1769
15.00-16.00	255	513	97	17	18	74	100	10	-	829
16.00-17.00	213	727	154	17	12	70	73	9	-	1062
17.00-18.00	236	671	235	13	13	70	75	2	-	1079
18.00-19.00	252	450	180	17	16	67	75	-	-	805
19.00-20.00	175	423	231	20	25	74	80	93	-	946
20.00-21.00	126	383	150	8	10	58	60	40	-	709
21.00-22.00	258	732	204	20	15	105	60	30	-	1166
22.00-23.00	262	574	249	10	16	70	55	22	30	1026
23.00-24.00	124	456	385	6	9	60	24	36	25	1001
Total	6938	18615	5604	595	281	1914	2608	1365	97	31079

OUTBOUND

HOUR	MOTOR-CYCLE	PRIVATE CAR	TAXI	BUS			TRUCK			TOTAL C/CEPT H/C
				LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	
6.00-6.30	48	106	106	6	7	53	30	27	2	337
6.30-7.00	120	270	188	24	2	60	30	27	-	601
7.00-7.30	81	603	148	35	-	60	30	5	-	881
7.30-8.00	140	724	55	36	6	60	30	10	-	921
8.00-8.30	150	764	180	41	10	60	60	4	-	1119
8.30-9.00	202	740	195	55	19	81	51	6	-	1147
9.00-10.00	500	640	457	42	26	102	195	137	-	1599
10.00-11.00	521	960	422	56	35	98	162	108	8	1849
11.00-12.00	360	1247	456	47	36	113	190	130	8	2227
12.00-13.00	527	1060	497	37	19	104	216	156	3	2092
13.00-14.00	273	1590	432	34	27	112	180	108	11	2494
14.00-15.00	507	1059	435	38	30	75	283	153	10	2085
15.00-16.00	273	1140	287	25	39	155	278	141	4	2069
16.00-17.00	282	1032	123	30	42	70	120	8	-	1425
17.00-18.00	353	1244	219	47	28	91	92	10	-	1731
18.00-19.00	261	1474	251	43	29	92	165	2	-	2056
19.00-20.00	416	1160	320	32	28	97	151	12	-	1800
20.00-21.00	259	834	305	36	8	100	94	99	-	1476
21.00-22.00	206	657	415	28	10	78	195	72	-	1455
22.00-23.00	471	1218	611	40	9	120	118	58	-	2174
23.00-24.00	345	1085	402	29	18	78	182	46	-	1840
Total	6643	20375	6881	781	455	1932	2912	1336	92	34764

APPENDIX 4--1(4)

TRAFFIC COUNT ON MEMORIAL BRIDGE

JULY 6 1981 (MONDAY)

INBOUND (FROM THONBURI TO BANGKOK)

HOUR	MOTOR-CYCLE	PRIVATE CAR	TAXI	Bus			Truck			TOTAL EXCEPT M/C
				LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	
6.00-6.30	803	545	102	2	17	99	77	52	8	902
6.30-7.00	1093	709	128	8	65	150	81	54	1	1196
7.00-7.30	1289	747	138	7	37	130	64	12	3	1138
7.30-8.00	1333	750	142	15	53	145	80	8	-	1193
8.00-8.30	2350	817	180	10	36	117	63	10	2	1235
8.30-9.00	1607	770	253	15	42	117	104	20	3	1364
9.00-10.00	2026	1013	383	26	83	157	283	95	14	2054
10.00-11.00	1626	892	564	18	90	203	313	200	12	2292
11.00-12.00	1302	890	573	6	70	170	334	164	12	2219
12.00-13.00	1136	786	616	8	108	211	311	170	14	2224
13.00-14.00	1480	870	557	6	136	196	344	202	7	2318
14.00-15.00	1489	853	653	4	166	185	365	159	7	2392
15.00-16.00	1362	901	601	12	74	208	253	195	4	2248
16.00-16.30	869	320	209	6	36	89	88	23	-	771
16.30-17.00	722	415	183	5	33	105	55	38	-	834
17.00-17.30	723	315	157	1	15	128	59	26	1	702
17.30-18.00	736	353	113	3	24	124	73	24	5	719
18.00-18.30	712	480	239	4	51	152	130	50	2	1108
18.30-19.00	730	655	197	6	37	113	91	24	-	1123
19.00-20.00	1115	621	475	8	55	147	159	20	5	1472
20.00-21.00	841	583	460	3	67	144	141	76	5	1479
21.00-22.00	659	784	385	4	47	101	130	47	-	1498
Total	25903	15069	7330	177	1342	3191	3598	1669	105	32481

OUTBOUND

HOUR	MOTOR-CYCLE	PRIVATE CAR	TAXI	Bus			Truck			TOTAL EXCEPT M/C
				LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	
6.00-6.30	62	87	102	-	16	87	52	52	17	413
6.30-7.00	118	202	163	-	15	118	58	29	8	593
7.00-7.30	175	295	125	-	56	116	45	6	5	648
7.30-8.00	370	349	148	-	23	94	18	4	2	668
8.00-8.30	420	407	133	-	26	110	44	4	6	730
8.30-9.00	405	361	163	1	25	101	68	9	8	736
9.00-10.00	1125	577	328	1	153	293	175	30	13	1570
10.00-11.00	1200	647	428	7	157	191	302	133	24	1889
11.00-12.00	1350	532	350	5	126	178	301	162	14	1669
12.00-13.00	1256	658	465	14	90	185	348	169	11	1940
13.00-14.00	1290	650	459	10	107	193	349	170	15	1953
14.00-15.00	1240	657	381	8	174	198	332	148	9	1907
15.00-16.00	1529	690	477	5	166	225	317	162	16	2058
16.00-16.30	624	520	220	9	70	119	140	50	3	1131
16.30-17.00	814	495	187	1	63	115	115	44	1	1021
17.00-17.30	696	609	173	4	53	104	74	25	1	1043
17.30-18.00	1101	573	169	10	31	125	88	18	1	1015
18.00-18.30	1127	430	211	6	32	105	92	11	2	889
18.30-19.00	824	415	235	4	39	135	97	10	1	936
19.00-20.00	1769	790	527	14	47	193	215	40	5	1831
20.00-21.00	1257	653	675	6	65	154	153	54	8	1768
21.00-22.00	743	545	470	6	55	147	191	51	10	1483
Total	19459	11142	6597	112	1589	3286	3604	1381	180	27891

APPENDIX 4-I (5)

TRAFFIC COUNT ON KRUNGTHEP BRIDGE

JULY 6 1981 (MONDAY)

INBOUND (FROM THONBURI TO BANGKOK)

HOUR	MOTOR-CYCLE	PRIVATE CAR	TAXI	BUS			TRUCK			TOTAL EXCEPT M/C
				LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	
6.00-6.30	86	133	55	16	11	33	36	65	4	353
6.30-7.00	178	358	60	25	19	57	72	74	7	672
7.00-7.30	352	501	87	45	11	53	165	19	16	897
7.30-8.00	594	567	119	50	11	38	165	7	11	968
8.00-8.30	628	473	128	30	9	30	106	13	16	805
8.30-9.00	418	313	113	18	5	22	117	16	10	614
9.00-10.00	626	577	254	37	12	46	342	128	136	1532
10.00-11.00	450	520	202	20	8	57	254	290	281	1632
11.00-12.00	419	488	180	24	6	43	216	284	232	1473
12.00-13.00	381	485	182	28	11	37	184	212	201	1340
13.00-14.00	382	444	130	10	10	62	302	287	132	1377
14.00-15.00	427	607	109	4	6	51	302	350	68	1497
15.00-16.00	475	678	93	10	6	54	333	262	10	1446
16.00-16.30	216	331	97	25	7	27	102	39	6	634
16.30-17.00	271	338	121	20	8	42	135	38	8	710
17.00-17.30	269	418	65	15	8	25	120	30	3	684
17.30-18.00	198	436	48	12	8	24	39	53	2	622
18.00-18.30	230	340	102	22	7	31	250	265	6	1023
18.30-19.00	254	320	54	20	5	25	83	57	2	566
19.00-20.00	443	493	194	37	9	48	129	101	7	1018
20.00-21.00	373	456	178	11	6	42	165	87	67	1012
21.00-22.00	263	244	156	31	1	32	92	42	400	998
Total	7933	9520	2727	510	184	879	3709	2719	1625	21873

OUTBOUND

HOUR	MOTOR-CYCLE	PRIVATE CAR	TAXI	BUS			TRUCK			TOTAL EXCEPT M/C
				LIGHT	MEDIUM	HEAVY	LIGHT	MEDIUM	HEAVY	
6.00-6.30	38	37	41	6	10	29	20	93	1	237
6.30-7.00	92	153	60	4	20	47	53	145	3	485
7.00-7.30	201	304	92	2	39	37	48	13	3	538
7.30-8.00	273	390	87	-	34	29	66	12	3	621
8.00-8.30	256	390	135	2	27	33	69	15	7	678
8.30-9.00	207	265	85	17	3	28	99	37	5	539
9.00-10.00	447	488	163	22	12	60	279	357	25	1406
10.00-11.00	387	373	136	23	10	46	275	352	175	1390
11.00-12.00	321	323	129	3	21	36	262	390	252	1416
12.00-13.00	375	464	163	4	18	56	230	222	183	1340
13.00-14.00	355	388	154	31	10	45	270	220	136	1254
14.00-15.00	317	475	90	18	7	35	172	199	205	1205
15.00-16.00	515	720	130	21	11	60	292	463	62	1759
16.00-16.30	260	380	69	14	12	28	84	35	12	634
16.30-17.00	313	385	79	21	5	32	85	23	10	640
17.00-17.30	355	441	69	18	9	25	98	22	9	691
17.30-18.00	450	524	104	1	40	30	106	40	11	856
18.00-18.30	365	412	99	1	23	38	136	134	11	854
18.30-19.00	300	347	100	17	9	22	65	94	6	660
19.00-20.00	526	444	180	-	25	60	133	90	4	936
20.00-21.00	369	468	185	-	23	53	106	75	26	956
21.00-22.00	356	343	147	1	21	33	108	43	128	825
Total	7078	8534	2497	226	389	866	3056	3074	1278	19920

RESULT OF ROAD SIDE INTERVIEW O-D SURVEY
STATION RAMA VI BRIDGE DATE JULY 2 1981 (THURSDAY)
MOTORCYCLE

CAR

AP - 4-6

STATION RAMA VI BRIDGE DATE JULY 2 1981 (THURSDAY)

[illegible][illegible]

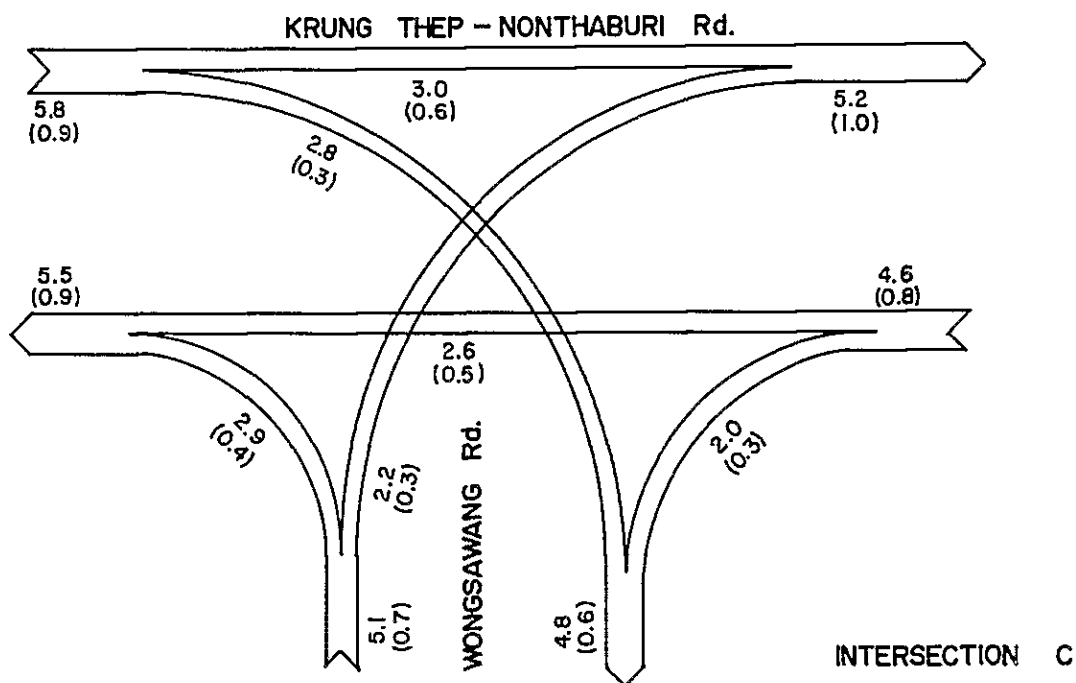
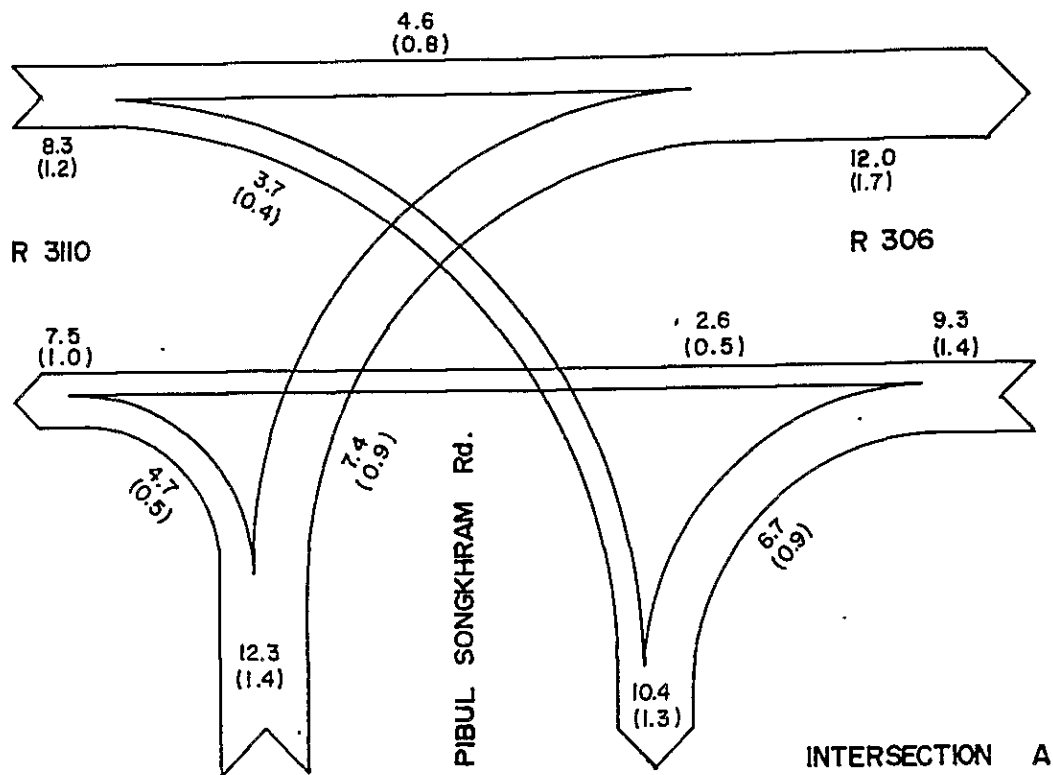
STATION KRUNG THON BRIDGE DATE JUNE 30 1981 (TUESDAY)

[illegible][illegible]

STATION KRUNG THON BRIDGE DATE JULY 30 1981 (TUESDAY)

[illegible]

ZONAL PAIRS	1	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	TOTAL			
1	8						4	75	2	6			2	7									5	4																			61		
2				6	2	15	275	33	152	6		7	7	2	2	7		4	2	2	8	2																						2320	
3							2		2																																			20	
4							4	4		2																																		4	
5																																													49
6							4	2				2																																2155	
7																																													31
8																																													1150
9																																													33
10																																													19
11																																													679
12																																													—
13																																													27
14																																													10
15																																													4
16																																													1055
17																																													—
18																																													22
19																																													5
20					</																																								

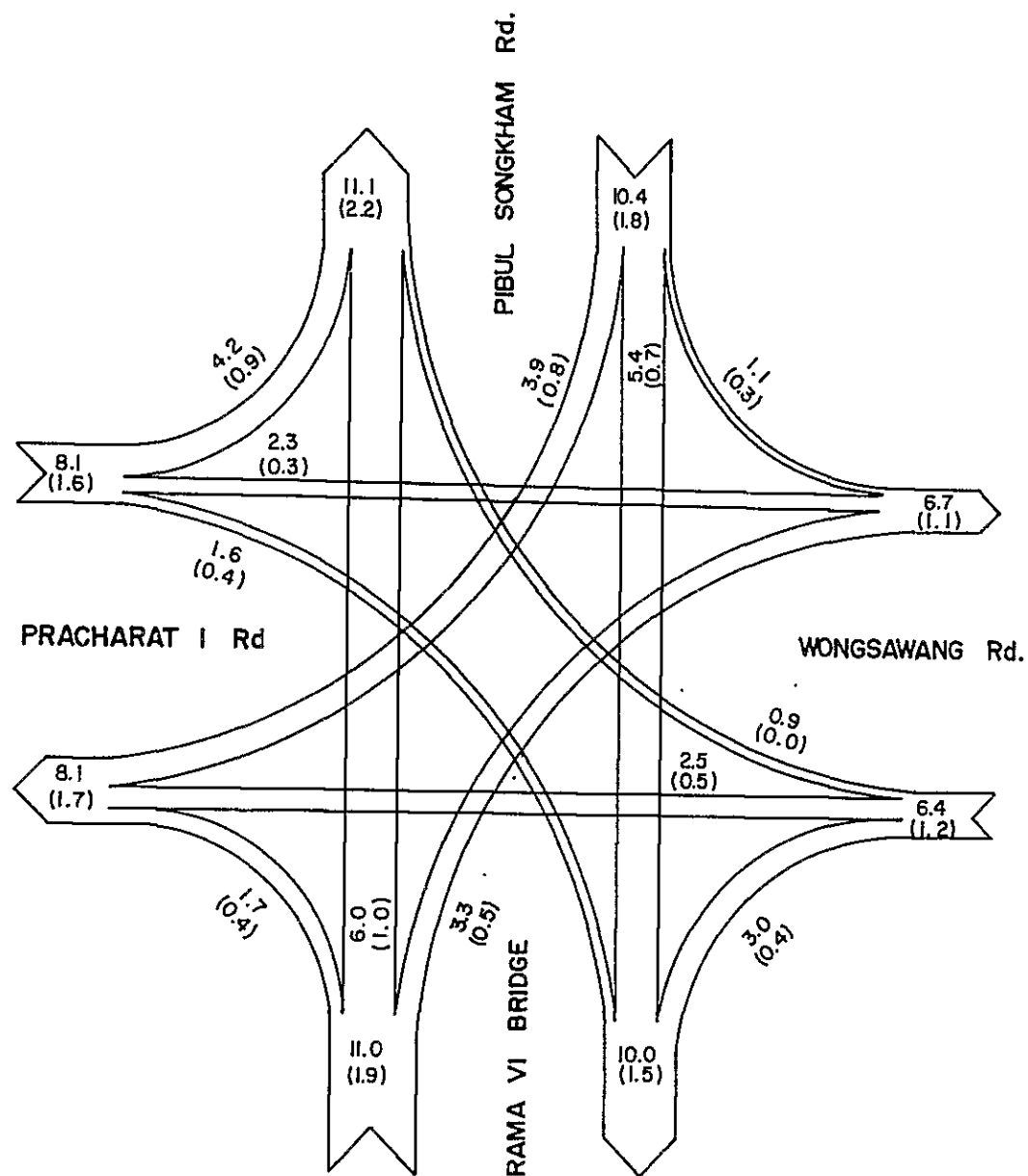


LEGEND

2.4	-----	TRAFFIC VOLUMES
		(EXCL. MOTORCYCLE)
(0.6)	-----	VOLUMES OF MOTORCYCLE

SCALE
0 10,000 20,000 30,000
VEHICLES

APPENDIX 4-3(1) PRESENT TRAFFIC FLOW BY DIRECTION OF INTERSECTION
THOUSAND VEHICLES / 16 hr. (6-22)
INTERSECTION NO A - C
DATE JULY 7 (Tue.) 1981

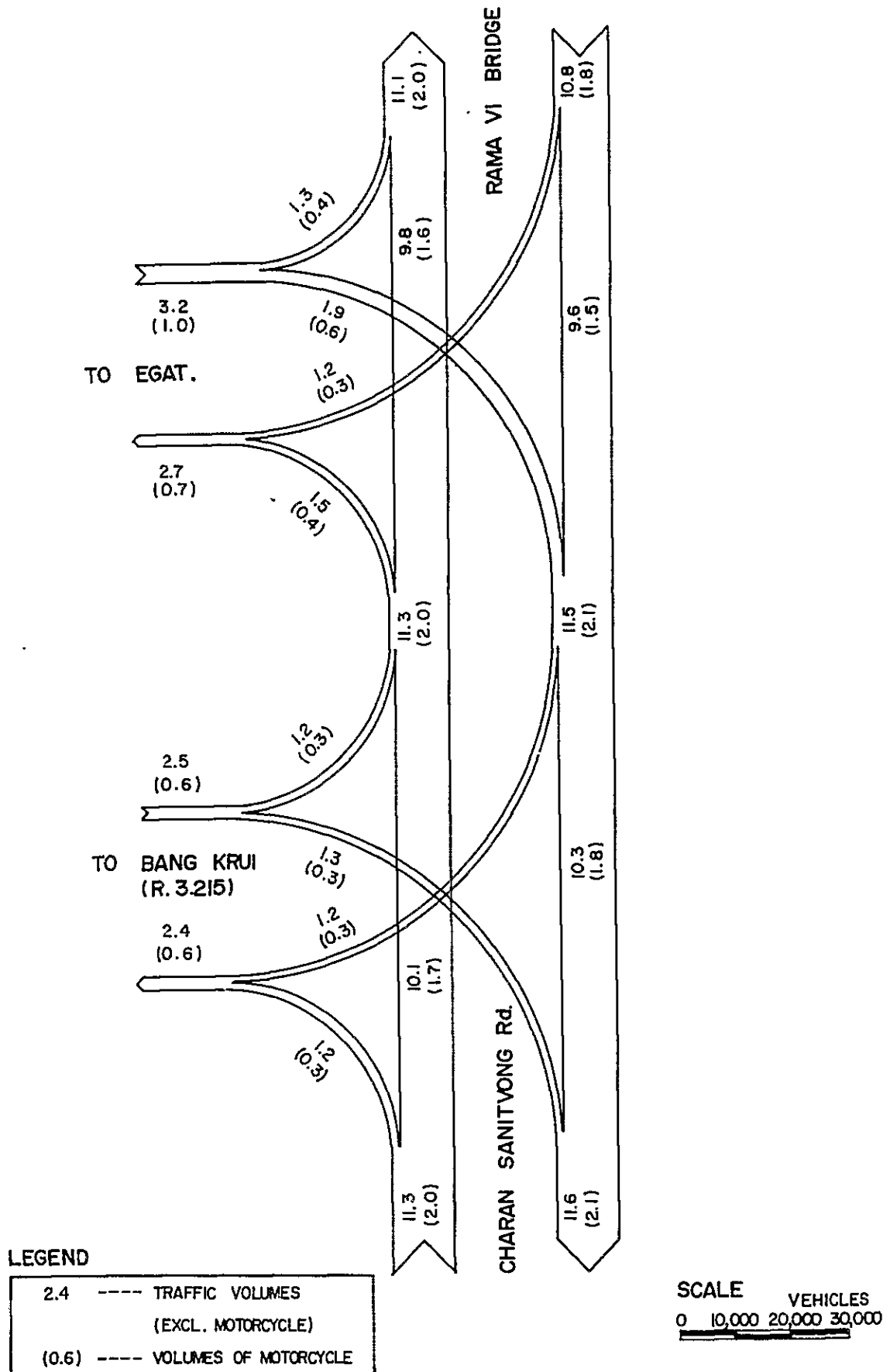


LEGEND

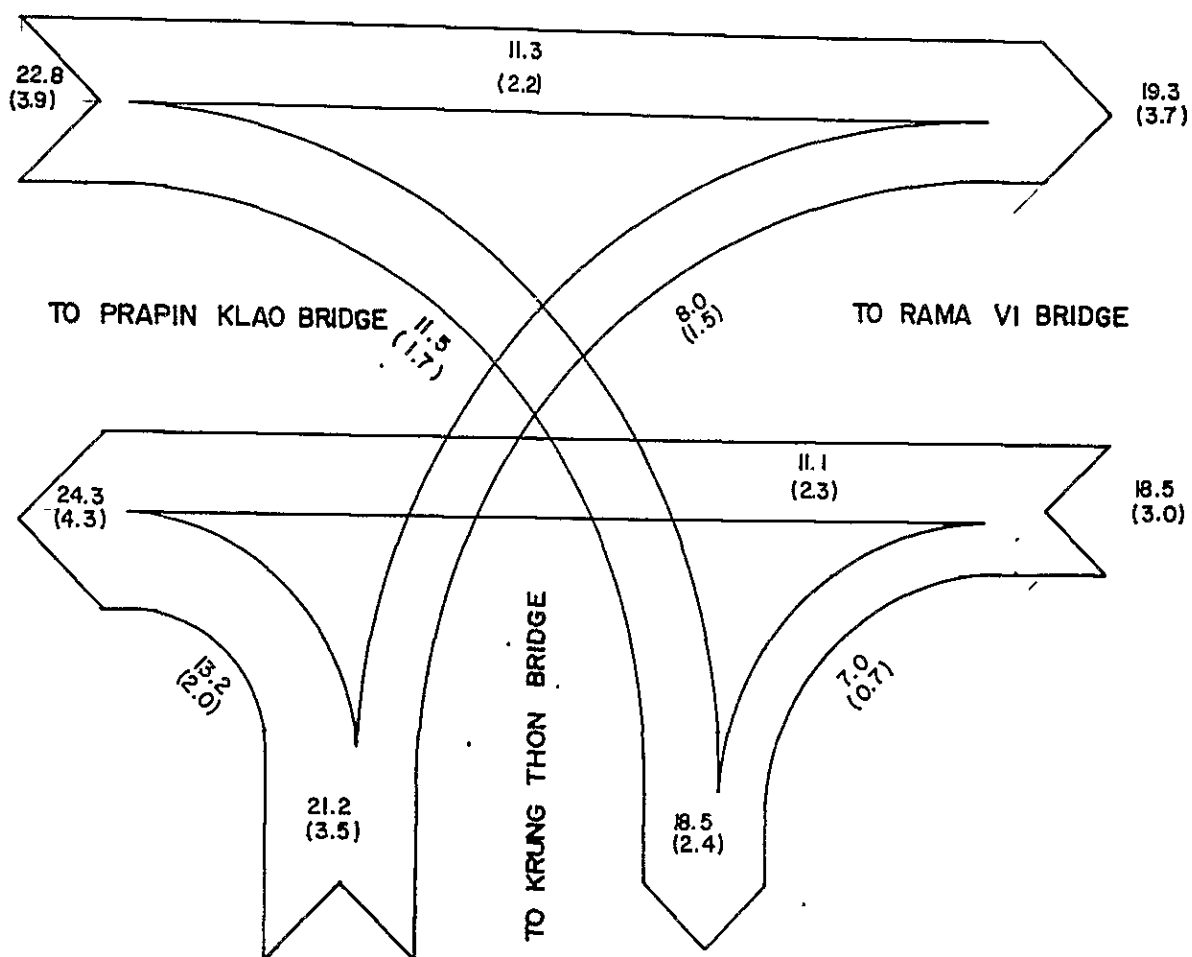
2.4	-----	TRAFFIC VOLUMES (EXCL. MOTORCYCLE)
(0.6)	-----	VOLUMES OF MOTORCYCLE

SCALE
0 10,000 20,000 30,000
VEHICLES

APPENDIX 4-3(2) PRESENT TRAFFIC FLOW BY DIRECTION OF INTERSECTION
THOUSAND VEHICLES / 16 hr. (6-22)
INTERSECTION NO. B
DATE JULY 1 (Tue.) 1981



APPENDIX 4-3(3) PRESENT TRAFFIC FLOW BY DIRECTION OF INTERSECTION
THOUSAND VEHICLES / 16 hr. (6-22)
INTERSECTION NO. D
DATE JULY 7 (Tue.) 1981 AP - 4-12



LEGEND

2.4	----	TRAFFIC VOLUMES (EXCL. MOTORCYCLE)
(0.6)	----	VOLUMES OF MOTORCYCLE

SCALE
0 10,000 20,000 30,000
VEHICLES

APPENDIX 4-3(4) PRESENT TRAFFIC FLOW BY DIRECTION OF INTERSECTION
THOUSAND VEHICLES/16 hr. (6-22)
INTERSECTION NO. E
DATE JULY 7 (Tue.) 1981 AP - 4-13

MOTORCYCLE

APPENDIX 5-1(1) ORIGIN - DESTINATION TABLE

|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

CAR

[illegible]

APPENDIX 5-1(3) ORIGIN - DESTINATION TABLE 1981 TRUCK

	INTERNAL ZONE																				EXTERNAL ZONE										TOTAL			
	1	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	TOTAL
1	8034	1906	406	392	30	52	500	86	40	92	128	44	8	18	70	38	239	158	162	290	280	348	22	10	4	4	4	18	10	186	24	22	28	
2	427007	5670	12708	538	496	3668	11796	570	1284	1788	628	108	238	932	538	3592	2502	2056	2058	2832	2068	296	126	62	52	44	250	132	2612	534	286	380		
3			24793	574	84	106	764	294	122	276	380	134	24	56	212	134	764	468	1076	864	836	400	62	28	14	12	10	52	32	556	70	62	80	
4			17326	58	72	520	172	82	184	258	90	16	36	144	78	518	218	730	586	566	298	42	18	8	6	56	22	376	48	42	54			
5					982	38	294	84	20	46	22	46	10	56	8	12	24	16	36	34	36	34	26	4	2	2	2	2	6	2	30	6	6	
6						1189	316	104	26	58	36	36	6	48	18	10	74	20	44	42	46	42	32	6	2	2	2	2	6	4	36	6	20	8
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																																		
TOTAL																																		
34																																		
35																																		
36																																		
37																																		
38																																		
39																																		
40																																		
41																																		
TOTAL																																		

APPENDIX 5 - 2(1) ORIGIN - DESTINATION TABLE 1985 MOTORCYCLE

	INTERNAL ZONE																	EXTERNAL ZONE											TOTAL						
	1	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	TOTAL	
1	6432	5085	820	637	61	95	605	132	96	131	408	172	28	65	236	269	475	356	647	607	657	434	69	29	35	8	6	11	35	602	16	27	24	47610	
2	562245	96355	20545	757	1085	7024	3868	1094	2195	4610	2004	302	720	2758	3170	5492	4150	7502	7031	1458	5053	791	554	257	84	83	362	175	6954	421	316	280	617940		
3		59439	5510	204	292	1879	909	237	595	1247	543	82	196	7159	840	1477	1115	2017	1836	5075	1357	213	95	40	21	24	98	46	1083	113	67	76	152350		
4			59027	171	231	1603	514	254	478	1061	456	71	163	631	715	1258	950	2583	1612	1741	1153	181	82	35	20	19	82	42	1601	55	11	64	314266		
5					7687	139	829	264	51	101	15	65	10	82	48	78	55	101	139	140	112	37	10	5	3	2	9	3	126	8	11	7	10600		
6							5725	1187	580	72	146	320	91	15	398	69	65	106	81	145	167	200	157	34	11	5	3	3	11	8	182	9	12	131	
7							37458	2453	123	951	786	601	90	242	253	245	692	522	947	1091	723	1026	348	81	37	19	15	76	47	1175	21	27	18	95570	
8									10238	152	314	232	194	28	69	145	329	222	367	303	348	432	327	110	24	15	6	5	24	14	376	21	28	21	50280
9									16127	137	508	513	49	112	353	142	221	167	303	228	250	95	7	9	4	1	3	31	16	352	19	48	19	37240	
10										12321	638	635	96	228	322	299	446	537	610	477	312	194	14	20	9	5	4	60	37	688	41	66	39	55060	
11										39025	577	141	354	2186	746	2649	2021	5616	1140	570	238	12	8	5	2	3	45	50	2434	96	118	99	94590		
12											55874	190	457	1302	957	366	292	528	495	251	155	10	11	5	2	5	48	86	891	93	202	75	59810		
13											2229	75	194	144	57	45	80	75	39	24	2													6040	
14											5320	466	342	138	105	189	179	90	54	4	5													24480	
15											2399	855	561	425	768	756	376	121	3	3														51860	
16															17239	495	373	676	1147	420	109													44500	
17																56277	763	1382	2616	795	283	53	35	16	11	9	41	37	3858	74	85	68	93880		
18																	28552	1044	1974	601	213	43	27	15	10	8	34	30	2916	56	62	52		70410	
19																	89467	3575	1090	389	67	51	23	16	13	59	54	5728	102	116	95		129590		
20																		65271	2067	647	120	79	53	22	22	99	56	4247	159	101	98		167570		
21																																		91950	
22																																		54070	
23																																		1320	
24																																		5770	
25																																		2590	
26																																		1190	
27																																		1230	
28																																		5990	
29																																		5190	
30																																		112940	
31																																		6810	
32																																		8620	
33																																		4870	
TOTAL																																			2716420
34																																			
35																																			
36																																			
37																																			
38																																			
39																																			
40																																			
41																																			
TOTAL																																			

APPENDIX 5 - 2 (2) ORIGIN - DESTINATION TABLE 1985 CAR

	INTERNAL ZONE												EXTERNAL ZONE												TOTAL																			
	1	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	TOTAL	34	35	36	37	38	39	40	41	TOTAL	
1	20014	7945	2146	820	337	520	440	413	237	475	1008	439	67	160	628	709	1204	905	1538	1347	1180	967	172	71	30	12	19	79	56	1324	90	77	61		160	82	26	99	148	150	224	138	70540	
2	5471	8325	7421	9078	1943	2446	18247	4954	2855	5492	1208	5162	779	2248	7528	4908	1349	10850	9650	19538	14911	589	2075	870	388	167	242	967	475	84272	1108	929	743		1931	973	315	1173	1769	3833	2678	1644	945160	
3		74363	2661	534	778	4918	1163	776	1553	3763	1401	212	439	2040	2307	5884	2932	3119	5018	10826	2715	562	240	104	45	67	264	113	4940	302	253	203		524	265	85	316	481	495	628	444	2257710		
4			164124	384	552	5518	1084	572	1089	2333	931	354	358	1451	1645	2139	1607	2905	2715	3574	2532	400	171	75	32	48	186	82	2700	212	178	143		284	188	59	227	339	551	586	412	169990		
5					19982	362	2139	659	30	223	216	166	25	447	132	137	193	343	266	304	332	283	96	23	7	3	4	21	10	326	18	26	21		32	21			8	34	29	81	55	16080
6						1805	3072	949	68	491	313	452	43	1034	182	167	279	211	379	443	479	412	139	35	15	6	10	31	19	470	27	39	28		47	28			9	44	59	119	82	22860
7							42186	6065	211	1947	2015	3782	228	1866	1391	1078	1781	1346	2436	2820	3086	2623	901	203	88	35	43	202	112	3002	173	253	181		291	174	32	66	302	242	775	517	143980	
8																																												45710
9																																												25990
10																																												52770
11																																												145570
12																																												59990
13																																												9090
14																																												21820
15																																												84250
16																																												71690
17																																												141540
18																																												106370
19																																												194650
20																																												224270
21																																												398370
22																																												81420
23																																												12820
24																																												8750
25																																												3930
26																																												1750
27																																												2680
28																																												9120
29																																												6930
30																																												265160
31																																												11650
32																																												14130
33																																												8490
TOTAL																																												3340960
34																																												
35																																												
36																																												
37																																												
38																																												
39																																												
40																																												
41																																												
TOTAL																																												

AP

INTERNAL ZONE

APPENDIX 5 - 3 (1) ORIGIN - DESTINATION TABLE 1990 MOTORCYCLE

[illegible]

APPENDIX 5 - 3 (2) ORIGIN - DESTINATION TABLE 1990 CAR

INTERNAL ZONE																																	EXTERNAL ZONE										TOTAL
1	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	TOTAL										
1	22058	6554	2037	787	344	678	1909	413	224	404	1182	502	75	132	769	1008	1151	572	1575	1992	1696	1159	240	58	38	13	17	95	46	223	92	108	64										
2	5952	9822	791	8538	1951	2824	10467	4558	2457	4381	12901	5462	794	2375	8323	10338	12302	10546	10113	2152	1845	12603	2631	1001	442	159	197	1052	495	2422	1100	1172	109										
3	8932	2727	619	907	5853	1259	781	1409	4114	1750	256	438	2662	3501	3960	3161	3457	6891	5665	3477	837	151	140	51	64	55	1751	353	378	259													
4	56493	418	635	4118	1154	345	971	2885	1215	182	309	1659	2451	2121	1808	2926	3695	5397	3104	586	249	92	36	46	241	111	414	244	283	158													
5	3891	469	2828	791	34	424	302	290	34	437	192	198	215	182	503	464	565	401	158	58	10	4	4	5	15	566	23	43	76														
6	78192	4090	1149	77	499	441	646	58	1018	266	283	319	270	436	681	821	590	231	58	23	10	10	46	29	822	35	66	36															
7	60755	7498	242	2016	2695	2344	314	1814	1775	1070	2074	1762	2855	4421	5398	3846	1532	342	125	45	47	306	177	5355	232	434	234																
8	86650	393	114	812	604	86	356	498	521	511	453	610	946	1510	1075	428	92	37	13	83	44	1127	63	159	63																		
9	8284	688	960	972	140	214	531	566	564	482	718	784	528	296	97	132	58	39	20	59	52	1293	63	148	52																		
10	12551	1790	1741	253	437	976	1048	1014	862	1259	1467	996	554	190	245	103	33	34	185	105	33	34	185	105	33	34	185	105	33	34	185	105	33	34									
11	73658	3552	513	594	5604	3654	5337	7082	11493	4862	2519	911	239	185	66	29	30	180	190	11707	353	609	348																				
12	50736	583	1204	5396	4601	1208	1018	1649	2084	1095	600	199	200	88	29	35	197	328	4215	332	1021	243																					
13	4665	192	785	671	174	148	237	475	165	87	31	23	10	4	4	30	49	617	47	144	41																						
14	7194	1364	1166	302	259	412	599	274	151	52	47	23	6	6	46	84	1063	87	259	67																							
15	50344	4569	1927	1618	2688	3523	1810	526	66	63	38	14	15	7	7	47	261	15319	345	990	505																						
16	12788	1978	1668	2756	6236	2344	542	14	18	15	7	7	47	261	15319	345	990	505																									
17	54046	2213	3600	9136	2186	800	196	132	30	22	23	148	125	15179	219	350	197																										
18	5197	2058	7757	1838	675	158	112	45	20	21	119	107	12741	187	303	167																											
19	15137	12598	5046	569	265	319	74	33	34	200	371	23158	306	496	276																												
20	46274	7724	2146	649	545	162	72	66	479	284	25071	583	609	404																													
21	96050	5332	749	288	110	49	51	379	144	5181	296	322	293																														
22	41329	320	85	25	31	11	90	63	3968	77	169	100																															
23	8013	21																																									
24	5988	43	96	66	141	17	541	24	74	34																																	
25	2373	35	28	57	14	218	10	19	9																																		
26	757	7	25	6	105	4	17	4																																			
27	725	20	6	109	5	17	4																																				
28	5005	34	677	24	77	42																																					
29	4010	515	43	143	44																																						
30	886418	845	1135	119																																							
31	5676	136	80																																								
32	9988	127																																									
33																																											
TOTAL																																											
34	1815	7	116	144	154	148	70																																				
35	21	14	29	24	18																																						
36																																											
37																																											
38																																											
39																																											
40																																											
41																																											
TOTAL																																											

APPENDIX 5 - 3 (3) ORIGIN -- DESTINATION TABLE

AP - 5-9

APPENDIX 5 - 4 (1) ORIGIN - DESTINATION TABLE 2000 MOTORCYCLE

INTERNAL ZONE																																	EXTERNAL ZONE											TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
1	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	TOTAL	34	35	36	37	38	39	40	41	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1	22927	1572	642	881	75	1071	736	204	65	94	533	224	31	66	372	617	436	440	573	856	1539	653	118	127	57	7	72	22	3701	53	70	56																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</

APPENDIX 5 - 4 (2) ORIGIN - DESTINATION TABLE

2000

CAR

		INTERNAL ZONE																EXTERNAL ZONE																TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		1	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	TOTAL		1	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	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1	26648	4706	1863	832	368	729	2396	425	164	237	1370	571	74	167	930	1357	1135	1350	1484	2721	2540	3346	599	319	122	13	24	165	53	4360	134	201	64	63910	184	69	29	117	38	33	39	40	41	TOTAL	39310																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2	376958	16863	7533	3758	2553169531	3069	1496	21452490	5163	650	2853	9465	1402401603079	2325614192	3599	2978	1193	135	220	1506	468	43649	1394	7419	593										1665	790	209	1047	1661	4512	2505	1468	1003710																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
3	112362	3006	693	10171	4668	1327	594	868	4975	2074	263	578	3393	5636	403214150	5360	8300	9173	1616	1417	1204	470	54	90	606	165	16360	497	1029	237																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

APPENDIX 5-4 (3) ORIGIN - DESTINATION TABLE 2000 TRUCK

INTERNAL ZONE																																	EXTERNAL ZONE										TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1	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	TOTAL	34	35	36	37	38	39	40	41	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1	12058	1277	468	295	43	65	757	104	38	57	202	60	8	17	242	68	269	273	554	444	735	408	68	63	20	3	4	26	25	801	35	110	26	30120	78	24	4	158	70	165	181	117	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2	132762	1325	2921	405	571	1948	1020	172	156	1272	529	76	570	2394	667	2633	2654	1445	4324	7055	4033	646	534	221	28	30	240	261	7317	137	1016	242	1361410	276	23	51	1323	682	1600	1762	1361	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
3	146070	1068	147	210	1401	315	140	207	725	223	30	64	887	247	963	577	1271	1600	2650	1468	235	205	86	13	13	90	96	2899	129	377	217	89	108410	287	87	39	563	531	591	499	499	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
4	45196	135	190	1272	156	126	184	645	159	26	55	801	224	863	884	1148	1445	2392	1326	211	176	66	10	9	83	88	2625	132	531	581	381	103490	260	81	18	508	226	531	581	381	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
5	2792	94	283	354	29	43	53	96	16	81	42	33	34	42	53	79	143	142	322	57	15	2	3	33	6	395	33	46	8	7120	18	15	16	9	34	108	44	44	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
6	4114	823	217	42	62	88	65	11	78	107	31	133	59	74	111	207	199	171	63	18	3	3	20	17	257	15	173	15	173	15	173	15	173	15	173	15	173	15	173	15	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
7	41253	1469	20	236	62	439	53	505	443	396	379	495	761	1389	1324	2147	367	346	38	9	237	103	1811	211	400	29																61110																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
8	7071	75	115	124	70	6	19	154	59	98	101	129	203	366	351	308	93	30	4	5	36	52	483	30	115	21															16910																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
9	3865	91	199	169	22	47	240	44	114	217	151	146	170	72	37	60	20	6	4	42	39	489	29	180	22																10150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
10	4812	286	246	33	10	253	96	367	170	220	221	281	111	32	55	40	10	4	66	57	737	451	268	23																	15220																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
11	30413	3971	50	112	5074	568	2277	2335	3002	650	390	164	51	80	34	8	6	66	106	1939	172	496	105																		71000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
12	14128	84	501	2969	573	205	211	2671	420	235	319	108	55	29	5	64	279	1985	183	1667	326																				34700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
13	13724	30	385	74	29	26	35	55	34	18	7	13	11	2	2	9	36	257	24	212	37																				4416																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
14	1422	851	164	57	58	77	120	68	165	50	36	1	2	19	77	570	51	473	36																						9800																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
15	162184	5039	597	3008	1326	1327	723	260	335	131	110	21	13	132	389	8482	776	2397	438																							131140																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
16	85105	419	421	554	1008	376	114	82	67	38	5	6	52	189	9647	463	1014	232																							59920																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
17	127695	567	739	7075	117	229	66	119	44	5	6	49	64	6638	104	305	57																									69420																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
18	30627	749	2080	722	230	68	109	55	6	7	46	71	6651	104	307	69																										92560																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
19	31086	2767	962	306	96	148	62	8	9	64	85	8857	143	398	89																											251000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
20	113726	5687	949	210	205	114	12	14	181	259	17553	117	910	238																												167920																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
21	87707	1925	308	233	84	9	10	126	109	3468	136	442	106																													86500																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
22	35162	560	375	59	9	9	92	72	1322	761	255	48																														20040																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
23	9418	79	35	3	5	6	28	32	422	28	98	24																														29990																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
24	111004	65	413	1325	738	62	819	55	254	46																																9390																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
25	4467	148	1317	273	26	276	351	307	39																																	2660																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
26	11146	7	27	4	42	2	16	1																																		2590																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
27	2351	26	5	43	3	19	2																																			13560																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
28	5057	36	410	30	134	24																																				14720																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
29	6832	713	96	644	79																																					454220																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
30	16748	978	2801	659																																						17940																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
31	8011	533	132																																							61840																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
32	29968	410																																								11240																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
33	11240	3																																									2446000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
TOTAL	1794	23	1251	106	322	332	333																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

1985	1990	WITHOUT OUTER RING ROAD, MINUTES (ANOTHER BRIDGE - RAMA VI BRIDGE)

[illegible][illegible]

APPENDIX 5 - 5(2) DIFFERENCES OF TIME DISTANCE

1990 2000 WITH OUTER RING ROAD,
MINUTES (ANOTHER BRIDGE-
RAMA VI BRIDGE)

WITH NEW RAMA VI BRIDGE PROJECT

[illegible]

WITHOUT NEW RAMA VI BRIDGE PROJECT

[illegible]

APPENDIX 5-6 (1) RATE OF ASSIGNMENT FOR RAMA VI Br.

1985 1990 2000 MOTERCYCLE

WITH RAMA VI BRIDGE PROJECT

[illegible]

APPENDIX 5 - 6 (2) RATE OF ASSIGNMENT FOR RAMA VI Br.

1985, 1990 WITHOUT OUTER RING ROAD

WITH NEW RAMA VI BRIDGE PROJECT

[illegible]

WITHOUT NEW RAMA VI BRIDGE PROJECT

[illegible]

APPENDIX 5-6 (3) RATE OF ASSIGNMENT FOR RAMA VI Br.

1990, 2000 WITH OUTER RING ROAD

WITH NEW RAMA VI BRIDGE PROJECT

[illegible]

WITHOUT NEW RAMA VI BRIDGE PROJECT

[illegible]

RATE OF INDUCED TRAFFIC

CAR

[illegible]

TRUCK

[illegible]

APPENDIX 5-8 TRAFFIC FORECAST ON RAMA VI BRIDGE

MOTORCYCLE

1985

(VEH/DAY)

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4																																						
	5	67			53	101	15	65		82	48	42	78					8	11	7							577												
	6	95			72	146	120	95	15	198	69	63	106	81			181	9	12	11							1271												
	7				62	476	393	300	45	121	125	123						21	27	18							1711												
	8				76	157	126	97	14	35	72	65						21	28	21							712												
	21																																						
	22				48	97	115	78	12	27	61	54						19	13	28							552												
	23				7	14	12	10	2	4	3								10	7							69												
	24	29			9	20	8				3	11	35	27													142												
	25																																						
	26				1	5	2																				8												
	27																																						
	28																																						
	29																																						
	39																																						
	40																																						
	41																																						
Total	191			328	1016	791	643	88	467	381	358	219	108				181	78	101	92																			

1990

[illegible]

2000

2000		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4																		18	43	12						946												
	5	75			55	76	30	132		128	117	150	110					794	21	50	19						2643												
	6	107			75	111	247	187	25	311	167	224	151	154					50	120	33						3251												
	7				68	385	867	649	82	203	328	466							45	109	37						1267												
	8				75	115	245	186	23	52	165	217																											
	21																		59	193	67						1617												
	22				69	104	334	221	29	60	208	275								95	26						304												
	23				16	24	59	49	7	13	15																866												
	24	127			36	58	66					32	154	193	200																								
	25																										7												
	26				1	3	5																																
	27																																						
	28																																						
	29																																						
	39																																						
40																																							
41																		794	193	610	194					10,901													
Total	309				395	874	1851	1424	166	767	1032	1484	454	354				794	193	610	194																		

CAR

TRUCK

AP - 5-20

APPENDIX 5-9(2) TRAFFIC FORECAST ON RAMA VI BRIDGE
Traffic Proper to RAMA VI Bridge 1990 without ORR

CAR

		BANGLOK SIDE																										Total
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38			
THOSBURI SIDE	4				215	206	611	368	55	94	225	297						30	32	18			6	31	47	2237		
	5	136	237	131	21	136	183	139	7	212	93	96	107	88	119	183	274	12	21	13	16	13			7	35	3,826	
	6	267			47	302	267	391	35	616	161	171	193	163	211	330	498	21	40	22	28	21			26	121	7318	
	7				117	428	877	1001	124	714	538	566	251	214	346	536	1135	70	131	71			47	5	2	5	24	1594
	8				186	151	246	238	34	62	151	158	62	53			161	13	28	13				10	5	28	68	111
	21																											
	22				143	117	276	236	35	60	159	164	97	82			239	16	36	21			7	4	21	299	2012	
	23				47	41	73	79	13	21	20	4	24	62	32	79	141	3	18	8								665
	24	39	133	76	64	119	73	24	12	6	25	7	64	44	71	152	115	5	9	4	17	19	7	10	38		1133	
	25																66											66
	26				2	4																						6
	27																											
28																												
29																												
39																	25	2	22	7			5		15	10	852	
40				15	12	306	106	15	26	86	97	56	47														5	
41				5																								
Total		442	370	207	862	1516	2912	2582	330	1811	1458	1560	854	753	779	1280	2654	172	337	177	61	129	31	146	664	22,087		

TRUCK

TRUCK				BANGKOK SIDE																																		
				1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total										
TUMBUH SIDI	4				38	37	107	44	7	14	57	14								8	17	8				2	42	18	413									
	5	16	52	27	15	27	27	47	4	36	13	9	15	14	18	22	42	5	10	4	5					2	2	8	7	599								
	6	30			22	39	50	42	6	44	42	10	64	24	30	37	71	6	47	7	9				2	2	30	21	1072									
	7				12	65	153	24	12	109	85	55	95	30	50	63	167	22	54	21					2	1	6	4	234									
	8				33	27	34		4	4	41	11	10	9				28	5	12	4				16	8	86	118	308									
	21							80																						515								
	22				23	19	33	30	5	47	40	15	18	25				64	8	18	7				13	10	27	123	197									
	23				8	7	12	1	2	16	24	13	6	16	9	16	35	5	12	6						5			4	285								
	24	8	25	13	9	10	10		2	2	13	6	17	10	18	30	28	3	5	2	21	3	1	49						13								
	25																			1										4								
	26				1	2																									139							
	27						139																															
	28																																					
	29																																					
	39																		31	2	41	21				7	2	44	2	934								
	40				25	21	175	231	34	76	64	87	39	32																	2							
41				2																																		
Total	54	77	40	188	254	749	499	76	348	379	220	264	150	125	168	479	65	216	80	35	44	33	296	300	5,130													

Traffic Propert to RAMA VI BRIDGE 1990 with ORR

CAR

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4				186	274	813	489	73	125	299	395																2654											
	5	144	110	88	27	181	243	185	5	282	124	128	142	118	127	195	296	12	18	10	16	10			4	18	2483												
	6	177			62	402	355	520	47	819	214	228	257	217	281	439	662	28	53	29	38	28			9	46	4,911												
	7				156	569	1165	1331	165	950	715	753	334	284	460	712	862	93	122	66		36	5	25	113	8916													
	8				247	201	327	243	25	60	141	147	83	70				10	21	10				2	4	19	1610												
	21																																						
	22				191	156	147	97		25	85	88	45	39													873												
	23				63	27	63	84	2		8	1	11	41	15		54	1	5	2							377												
	24	41	62	50	85	158	78	11	15	6				19	16	26	55	88	4	6	3	4	13	5	7	23	777												
	25																																						
	26				2	2																					4												
	27																																						
	28																																						
	29																																						
	39																																						
40				4	3	265							37	31												340													
41				4	6																					10													
Total	362	172	138	1027	1979	3456	2960	332	2267	1586	1740	928	816	909	1401	1962	148	225	120	58	87	12	49	221	22,955														

TRUCK

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4				50	49	142	59	9	19	76																404												
	5	20	68	35	19	36	35	63	4	47	17	11	19	18	23	28	45	5	9	3	6				5	2	518												
	6	31			29	52	67	56	8	59	56	14	85	32	39	48	95	8	63	9	11	2	2	11	9	786													
	7				16	86	203	184	15	144	113	72	126	40	65	83	127	30	51	20		2	2	27	20	1426													
	8				43	35	45	24	2	7	37	10	13	11				3	9	3				4	3	249													
	21																																						
	22				30	25	17	33		19	22	8	23	19												196													
	23				18	8	15	40	1		22	6	7	16	11		14	2	3	2			2		1	169													
	24	10	32	18	11	13	12	2	2	3			9	7	12	21	21		4	2		2	1	33		217													
	25																																						
	26				1	2																					3												
	27																																						
	28																																						
	29																																						
	39																																						
	40				14	15	232						14	11													286												
41				2	3																					5													
Total	61	100	53	233	324	768	461	41	298	343	121	296	154	150	180	302	50	139	39	17	6	7	80	36	4,259														

APPENDIX 5-9(4) TRAFFIC FORECAST ON RAMA VI BRIDGE
Traffic Proper to RAMA VI Bridge 2000

CAR

		BANGKOK SIDE																																				Total
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38													
TIONBURI SIDE	4				141	108	632	372	48	106	343	407																						2059				
	5	104	153	106	13	73	192	144	7	244	103	134	95	95	102	189	415	11	31	7	12	7			3	14								2254				
	6	159			31	161	281	404	31	710	179	241	173	176	183	342	927	26	94	20	29	20			7	36								4228				
	7				80	231	938	1052	113	836	609	808	229	234	301	564	1229	88	222	46			26	3	19	90								7718				
	8				117	76	244	178	16	51	110	146	52	53				9	35	7				1	3	13								1111				
	21																																					
	22				119	78	145	94		27	88	115	108	110																				884				
	23				47	33	115	123	5		24	4	32	78	42		114	1	13	3														634				
	24	90	259	184	129	191	231	76	30	35			76	77	98	255	369	11	32	6	8	28	8	16	59									2268				
	25																																					
	26					2	2																												4			
	27																																					
	28																																					
	29																																					
39																																						
40				5	4	347						27	29																					412				
41				2	3																													5				
Total		353	412	290	684	960	3127	2443	250	2009	1358	1855	792	852	724	1350	3054	146	427	89	49	81	12	48	212									21,577				

TRUCK

		BANGKOK SIDE																																						Total	
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38																
THONBURI SIDE	4				35	28	100	44	6	12	70																								295						
	5	12	35	22	13	19	23	42	2	28	14	11	13	14	15	22	56	4	10	2	4				3	2									366						
	6	18			18	27	43	37	5	34	47	13	58	26	17	38	116	7	75	6	9	2	2	8	7									613							
	7				10	45	131	124	9	85	96	71	87	33	43	66	158	24	61	12		1	2	20	16									1094							
	8				26	17	27	15	1	4	29	9	8	9				3	10	2				3	2									165							
	21																																		171						
	22				25	17	14	28		14	23	10	20	20																				292							
	23				13	5	11	30			20	7	6	15	8		167	1	4	1				3		1									533						
	24	17	46	31	21	19	23	3	4	5			18	17	22	47	173	5	11	2		3	1	65																	
	25																																			1					
	26					1																																			
	27																																								
28																																									
29																																									
39																																			215						
40				10	8	159							19	19																				99							
41				36	63																																				
Total		47	81	53	207	249	531	323	27	182	299	121	229	153	105	173	670	44	171	25	13	6	8	99	28																3,844

CAR

TRUCK

AP - 5-24

APPENDIX 5-10(2) TRAFFIC FORECAST ON RAMA VI BRIDGE
Diverted Traffic 1990 without ORR

CAR

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4				40	134	831	422	64	107	426	561					829	56	60	38			14	59	88	3,829													
	5	140	446	179	13	89	119	91	10	225	99	102	112	94	124	189	292	11	22	13	16	13		7	22	2428													
	6	174	565	182	30	197	174	255	23	402	105	112	126	107	225	351	324	14	26	14	30	14		4	22	3476													
	7				125	581	1005	1035	128	738	616	650	475	403	654	1012	1543	81	152	82	73	64	5	30	139	9591													
	8				197	206	282	246	35	63	173	181	117	99			304	19	37	19		14	2	7	32	2033													
	21				106																	18	7	37	92	260													
	22				153	160	317	244	35	61	183	189	183	155			450	23	49	29		10	4	25	344	2614													
	23				50	54	83	81	12	21	23	6	45	65	61	149	191	4	21	11						877													
	24	40	250	49	68	126	75	46	11	11	26	8	68	46	73	156	156		17	8	17	37	12	19	71	1390													
	25																76									76													
	26				5	8	6				3	2							2	4	1					31													
27																																							
28																																							
29																																							
39																																							
40				14	17	352	110	14	27	98	111	105	87			49	3	31	10		4		18	13	1063														
41				11	16			4	7																38														
Total	354	1261	410	912	1588	3244	2530	336	1662	1752	1922	1231	1056	1137	1857	4214	213	419	225	136	174	44	206	823	27,706														

TRUCK

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4				24	23	139	49	8	16	104	25					202	16	31	15				3	76	31	762												
	5	16	95	35	9	17	17	30	4	36	13	9	15	14	18	21	43	4	10	4	5				8	3	426												
	6	19	118	36	14	25	32	27	4	28	27	6	40	15	31	38	45	4	30	4	9	1	1	5	4	563													
	7				12	86	169	249	11	108	95	61	174	56	90	114	219	26	60	24	20	3	3	32	24	1636													
	8				34	35	38	46	3	12	46	12	18	16			50	6	15	6				8	6	351													
	21				14																	30	10	113	154	521													
	22				23	26	36	127	5	46	44	17	31	27			115	11	23	9		17	11	31	132	731													
	23				19	8	13	59	2	16	26	14	11	16	15	28	46	5	13	7			5		4	307													
	24	8	46	18	9	10	10	4	2	3	12	6	16	10	17	31	36	4	9	4	21	5	2	89		372													
	25																																						
	26				2	4	2				5	1									3	1					18												
	27																																						
28																																							
29																																							
39																																							
40				25	26	193	199	34	75	70	96	70	59			56	2	54	28		5	2	58	1	1053														
41				4	8			3	5																	20													
Total		43	259	89	189	268	649	790	76	345	442	247	375	213	171	232	812	78	248	102	55	61	37	420	359	6,560													

APPENDIX 5-10 (3) TRAFFIC FORECAST ON RAMA VI BRIDGE
Diverted Traffic 1990 with ORR

CAR

		BANGKOK SIDE																																			
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total											
THONBURI SIDE	4				163	205	1032	114	17		70							47	51	30			12	50	75	1866											
	5	127	555	215	6	43	57	44	12	151	66	68	75	63	112	171			3	2	3	2		1	4	1780											
	6	255	548	176	15	95	84	122	11	193	50	54	60	51	151	235	156	7	13	7	20	7		2	11	2323											
	7				83	427	695	684	84	487	426	449	380	322	524	811	984	56	92	50	71	41	3	18	85	6772											
	8				132	151	194	145	18	39	105	109	92	79			257	11	23	11		11		4	20	1401											
	21				102																					102											
	22				102	117	166	23		5	19	20	228	192												872											
	23				33	66	90	73	8		24	3	55	59	74		77	1	7	3						573											
	24	36	311	123	45	85	68	57	7	16			45	39	61	133	99	5	8	4		19	6	9	36	1212											
	25																																				
	26				4	8	5																			17											
	27	3																								3											
	28																																				
	29																																				
	39																																				
	40				10	15	381							58	74											538											
	41				2	15																				17											
Total		421	1414	514	695	1214	2787	1262	157	891	760	703	935	863	996	1350	1573	127	197	107	94	80	21	84	231	17,476											

TRUCK

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4				12	38	185	14	2		18							13	27	13			2	68	28	420													
	5	11	81	28	5	9	9	15	3	27	10	7	11	10	12	15			1	1				1	1	257													
	6	19	121	36	7	13	16	14	2	14	14	3	21	8	23	28	23	2	15	2	7	1	1	3	2	395													
	7				9	67	124	97	9	76	70	45	149	47	77	97	149	19	49	15	21	2	2	22	15	1162													
	8				25	28	27	15	2	5	30	7	16	14			45	4	10	4				5	4	241													
	21				14																					14													
	22				17	20	21	7		4	4	2	7	23												105													
	23				10	7	10	21	1		17	8	9	10	13		19	2	5	2			1		1	136													
	24	6	39	13	7	8	7	1	2	3			8	6	3	17	25	3	5	1		3	1	48		206													
	25																																						
	26				1	3	1																			5													
	27																																						
	28																																						
	29																																						
39																																							
40				11	18	144						49	41												263														
41				2	4																				6														
Total		36	241	77	120	215	544	184	21	129	163	72	270	159	128	157	261	43	112	38	29	6	7	147	51	3,210													

APPENDIX 5-10(4) TRAFFIC FORECAST ON RAMA VI BRIDGE
Diverted Traffic 2000

CAR

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4				180	242	2035	476	62		313							80	166	37			13	68	108	3780													
	5	188	456	237	17	93	246	185	14	450	190	248	175	175	183	340	314	8	40	8	16	9		4	18	3614													
	6	310	503	200	40	206	360	518	40	910	230	308	222	226	334	632	1189	33	121	25	53	26		9	46	6541													
	7				146	522	1840	1899	203	1509	1188	1584	682	696	897	1681	3683	172	500	102	104	78	6	43	201	17736													
	8				216	170	478	348	34	100	248	328	155	158			638	26	104	19		14	1	8	39	3084													
	21				134																					134													
	22				220	175	430	119		33	112	146	322	326												1883													
	23				87	72	225	220	15		52	11	96	152	124		402	4	46	8						1514													
	24	162	772	413	239	353	417	225	55	78			170	173	220	575	1100	32	114	20		99	28	55	209	5509													
	25																																						
	26				5	6	6																			17													
	27	4																								4													
	28																																						
29																																							
39																																							
40				9	11	681						95	93												889														
41				6	9																				15														
Total	664	1731	850	1299	1859	6718	3990	423	3080	2333	2625	1917	1999	1758	3228	7326	355	1091	219	173	226	48	187	621	44,720														

TRUCK

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
THONBURI SIDE	4				45	63	322	55	7		89							22	67	16			3	100	45	834													
	5	22	105	50	16	24	30	54	6	53	27	21	25	27	27	40	42	2	13	2	5		0	4	2	597													
	6	36	113	42	23	35	55	48	6	44	60	17	74	33	56	72	100	8	97	7	16	2	2	10	9	965													
	7				19	102	257	225	17	155	188	139	259	98	129	198	471	48	138	28	31	4	3	45	35	2589													
	8				48	39	52	29	3	8	67	20	25	26			95	7	388	5			1	8	7	828													
	21				24																					24													
	22				47	38	43	134		18	29	12	60	59												440													
	23				24	11	22	55	2		46	21	17	29	24		595	5	15	4			8		3	881													
	24	31	118	70	39	35	41	9	9	13			41	37	51	106	516	15	39	8		11	4	231		1444													
	25																									5													
	26				2	2	1																																
	27																																						
	28																																						
29																																							
39																									491														
40				22	25	312						66	66																										
41																																							
Total	89	356	162	309	374	1135	609	50	291	506	230	567	375	287	416	1819	107	757	70	52	17	21	398	101	9,098														

APPENDIX 5-11 TRAFFIC FORECAST ON RAMA VI BRIDGE
Induced Traffic 1985

CAR

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
TIONBURI SIDE	4				18			32	5	12																									67				
	5	13			5	33	32	17		45	20	18	19	21	32	36	49	4	5	3	3	2			1	3									361				
	6	40			14	98	62	69	6	155	36	35	42	42	76	88	94	7	10	6	7	4			1	7									897				
	7				21		131	142	18	144	116	105							25	18	9			1	4	20									754				
	8				18		20	19	3	7	24	21																								113			
	21																																						
	22				12			16	2	6	11	9								2	2														60				
	23				3			4	1	2	1									1	1														15				
	24				9	19	8				3	1	5	6	10	14						1													78				
	25																																						
	26																																						
	27																																						
	28																																						
	29																																						
	39																																						
40																																							
41																																							
Total	53			100	150	253	299	35	371	211	188	66	69	118	140	143	11	43	30	20	6	1	6	30										2,345					

TRUCK

		BANGKOK SIDE																																					
		1	2	3	9	10	11	12	13	14	15	16	17	18	19	20	30	31	32	33	34	35	36	37	38	Total													
TIONBURI SIDE	4				6			8	1	3																									18				
	5	3			5	9	7	9		10	4	4	4	5	6	7	11	2	3	2	2				2	1									96				
	6	7			8	17	15	11	2	13	11	4	19	8	14	15	18	3	14	3	3	1	1	3	2									192					
	7				4		34	31	3	28	21	20							13	8	4				1	8	6							181					
	8				6		5	4	1	2	8	4																							30				
	21																																						
	22				4			10	1	7	4	2								2	1														31				
	23				2			4	1	2	2	2								1	1														15				
	24				3	3	2				2	2	3	3	4	7						3													32				
	25																																						
	26																																						
	27																																						
28																																							
29																																							
39																																							
40																																							
41																																							
Total	10			38	29	63	77	9	65	52	38	26	16	24	29	29	5	33	15	12	1	2	13	9										595					

APPENDIX 9-1 TRAFFIC VOLUME ON RAMA VI BRIDGE

(Vehicle/day)

Project Year	Calendar Year	PROPER TRAFFIC						DIVERTED TRAFFIC				INDUCED TRAFFIC					
		Passenger Car	Light & Medium Bus	Heavy Bus	Light & Medium Truck	Heavy Truck	Total	Passenger Car	Light & Medium Truck	Heavy Truck	Total	Passenger Car	Light & Medium Truck	Heavy Truck	Total	Grand Total	Motor Cycle
4	1984	22,820	880	3,080	3,920	1,300	32,000	—	—	—	—	2,300	450	150	2,900	34,900	2,300
5	1985	22,700	900	3,200	3,900	1,300	32,000	14,300	2,700	900	17,900	2,300	450	150	2,900	52,800	2,500
6	1986	22,580	920	3,320	3,880	1,300	32,000	16,980	3,140	1,060	21,180	2,300	450	150	2,900	56,080	2,700
7	1987	22,460	940	3,440	3,860	1,300	32,000	19,660	3,580	1,220	24,460	2,300	450	150	2,900	59,360	2,900
8	1988	22,340	960	3,560	3,840	1,300	32,000	22,340	4,020	1,380	27,740	2,300	450	150	2,900	62,640	3,100
9	1989	22,200	980	3,680	3,820	1,300	32,000	25,020	4,460	1,540	31,020	2,300	450	150	2,900	65,920	3,300
10	1990	22,900	1,000	3,800	3,200	1,100	32,000	17,500	2,400	800	20,700	2,300	450	150	2,900	55,600	3,500
11	1991	22,790	1,040	3,920	3,160	1,090	32,000	20,220	2,840	950	24,010	2,300	450	150	2,900	58,910	3,690
12	1992	22,680	1,080	4,040	3,120	1,080	32,000	22,940	3,280	1,100	27,320	2,300	450	150	2,900	62,220	3,880
13	1993	22,570	1,120	4,160	3,080	1,070	32,000	25,660	3,720	1,250	30,630	2,300	450	150	2,900	65,530	4,070
14	1994	22,460	1,160	4,280	3,040	1,060	32,000	28,380	4,160	1,400	33,940	2,300	450	150	2,900	68,840	4,260
15	1995	22,350	1,200	4,400	3,000	1,050	32,000	31,100	4,600	1,550	37,250	2,300	450	150	2,900	72,150	4,450
16	1996	22,240	1,240	4,520	3,060	1,040	32,000	33,820	5,040	1,700	40,560	2,300	450	150	2,900	75,460	4,640
17	1997	22,130	1,280	4,640	3,020	1,030	32,000	36,540	5,480	1,850	43,870	2,300	450	150	2,900	78,770	4,830
18	1998	22,020	1,320	4,760	2,980	1,020	32,000	39,260	5,920	2,000	47,180	2,300	450	150	2,900	82,080	5,020
19	1999	21,910	1,360	4,820	2,940	1,010	32,000	41,980	6,360	2,150	50,490	2,300	450	150	2,900	85,390	5,210
20	2000	21,800	1,400	5,000	2,800	1,000	32,000	44,700	6,800	2,300	53,800	2,300	450	150	2,900	88,700	5,400
21	2001	21,690	1,360	5,180	2,660	990	32,000	47,420	7,240	2,450	57,110	2,300	450	150	2,900	92,010	5,590
22	2002	21,580	1,320	5,360	2,520	980	32,000	50,140	7,680	2,600	60,420	2,300	450	150	2,900	95,320	5,780
23	2003	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	5,970
24	2004	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	6,160
25	2005	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	6,350
26	2006	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	6,540
27	2007	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	6,730
28	2008	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	6,920
29	2009	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	7,110
30	2010	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	7,300
31	2011	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	7,490
32	2012	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	7,680
33	2013	21,470	1,280	5,540	2,380	970	32,000	50,680	7,780	2,640	61,100	2,300	450	150	2,900	96,000	7,870

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

APPENDIX 9-2 ANALYTICAL TABLE FOR I.R.R. (Sensitivity Test
of the higher Cost Case)

PRO- JECT YEAR	CALEN- DAR YEAR	THOUSAND BAHT, MID 1981 PRICE					
		COST			BENEFIT		
		REAL	DISCOUNTED BY 18%	DISCOUNTED BY 19%	REAL	DISCOUNTED BY 18%	DISCOUNTED BY 19%
1	1981	333220	333220	333220	0	0	0
2	1982	239110	202635	200932	0	0	0
3	1983	261120	187532	184393	0	0	0
4	1984	12220	7437	7251	151100	91964	89665
5	1985	12220	6302	6093	165200	85208	82380
6	1986	12220	5341	5120	177700	77674	74465
7	1987	12220	4526	4303	186300	69011	65604
8	1988	12220	3836	3616	197200	61906	58355
9	1989	12220	3250	3038	212000	56400	52718
10	1990	20720	4671	4329	183200	41303	38282
11	1991	12220	2334	2145	188700	36053	33136
12	1992	12220	1978	1803	202000	32707	29808
13	1993	12220	1676	1515	212300	29131	26326
14	1994	12220	1421	1273	223200	25955	23258
15	1995	12220	1204	1070	232200	22883	20333
16	1996	12220	1020	899	241600	20177	17778
17	1997	20720	1466	1281	251500	17800	15552
18	1998	12220	732	634	261800	15702	13604
19	1999	12220	621	533	272600	13856	11903
20	2000	12220	526	448	283900	12229	10417
21	2001	12220	446	376	295700	10794	9118
22	2002	12220	378	316	308100	9531	7983
23	2003	12220	320	266	321100	8418	6992
24	2004	20720	460	379	334700	7436	6124
25	2005	12220	230	187	349000	6571	5366
26	2006	12220	194	157	363900	5806	4702
27	2007	12220	165	132	379700	5134	4123
28	2008	12220	140	111	396000	4538	3613
29	2009	12220	118	93	413300	4013	3169
30	2010	12220	100	78	425300	3500	2740
31	2011	20720	144	112	450300	3140	2438
32	2012	12220	72	55	470200	2779	2139
33	2013	12220	61	46	491000	2459	1877
TOTAL		-155500*	-778*	-594*	8640800	784092	723977

Note : * Residual Cost

$$I.R.R. = 18\% + \frac{10,301}{10,301 + 41,649} \times (19-18) = 18.2\%$$

- In this case, the cost is assumed to be higher than those in the most probable case by about 14%, mainly due to increase of the compensation cost.

APPENDIX 9-3 ANALYTICAL TABLE FOR I.R.R. (Sensitivity Test
of lower Benefit Case)

		THOUSAND BAHT, MID 1981 PRICE					
PRO- JECT YEAR	CALEN- DAR YEAR	COST			BENEFIT		
		REAL	DISCOUNTED BY 19%	DISCOUNTED BY 20%	REAL	DISCOUNTED BY 19%	DISCOUNTED BY 20%
1	1981	243320	243320	243320	0	0	0
2	1982	232340	195243	193616	0	0	0
3	1983	255120	180156	177166	0	0	0
4	1984	12220	7251	7071	151100	89665	87442
5	1985	12220	6093	5893	165200	82380	79668
6	1986	12220	5120	4910	157500	66000	63295
7	1987	12220	4303	4092	165000	58103	55258
8	1988	12220	3616	3410	172500	51045	48141
9	1989	12220	3038	2841	180000	44760	41862
10	1990	20720	4329	4015	170400	35607	33024
11	1991	12220	2145	1973	182300	32012	29442
12	1992	12220	1803	1644	194100	28642	26123
13	1993	12220	1515	1370	206000	25544	23104
14	1994	12220	1273	1142	217800	22695	20356
15	1995	12220	1070	951	229700	20114	17890
16	1996	12220	899	793	241600	17778	15681
17	1997	20720	1281	1120	253400	15669	13705
18	1998	12220	634	550	265300	13786	11957
19	1999	12220	533	458	277100	12100	10408
20	2000	12220	448	382	289000	10604	9045
21	2001	12220	376	318	300900	9278	7848
22	2002	12220	316	265	312700	8102	6797
23	2003	12220	266	221	324600	7068	5879
24	2004	20720	379	312	336400	6155	5077
25	2005	12220	187	153	348300	5355	4381
26	2006	12220	157	128	366900	4741	3846
27	2007	12220	132	106	385500	4186	3367
28	2008	12220	111	88	404000	3686	2940
29	2009	12220	93	74	422600	3240	2563
30	2010	12220	78	61	441200	2842	2230
31	2011	20720	112	87	459800	2489	1937
32	2012	12220	55	42	478300	2176	1679
33	2013	12220	46	35	496900	1900	1453
TOTAL		-140100*	-535*	-409*	8596100	687736	636412

Note: * Residual Cost.

$$\text{I.R.R.} = 19\% + \frac{21,877}{21,877 + 21,804} \times (20-19) = 19.5\%$$

• In this case, the benefit is assumed to be lower than those in the most probable case by about 11% in 1986 for example, mainly due to the earlier construction of Outer Ring Road.

