A 4.1.5 Results of OD Interview Survey

Note:
These OD matrixes are expanded and adjusted as AADT

Table 4.1.9 OD Matrix by vehicle Type by Survey Station (1/23)

O-D Matrix Qantara Passenger Car

Unit: Vehicles

Origin \ Destination	1 N Sinai 1	2 N Sinai 2	3 N Sinai 3	4 S Sinai 1	5 S Sinai 2	6 S Sinai 3	7 E Port Said	8 E Ismailia	9 E Suez	10 W Port Said	11 W Ismailia	12 W Suez	13 Damietta	14 E Dakhalia	15 N Sharkia	16 Qalubia	17 Cairo	18 Kafr EL Seik	19 S Behera	20 Alexandria	21 Minya	22 Western Des	23 Red Sea	24 Aswan	25 New Valley	26 Gaza Strip	27 Jordan	28 Israel	29 Lybia	30 Sudan	Total
1 N Sinai 1	0	0	0	0	0	0	0	0	0	25	61	0	7	0	14	7	36	0	4	11	0	0	0	0	0	0	0	0	0	0	215
2 N Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 N Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 S Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 S Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 S Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 E Port Said	0	0	0	0	0	0	0	0	0	4	14	0	0	0	4	4	7	0	0	0	0	0	0	0	0	0	0	0	0	0	32
8 E Ismailia	0	0	0	0	0	0	0	0	0	4	72	0	7	0	11	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	100
9 E Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 W Port Said	14	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
11 W Ismailia	36	0	0	0	0	0	7	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
12 W Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Damietta	11	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
14 E Dakhalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 N Sharkia	11	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
16 Qalubia	4	0	0	4	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
17 Cairo	82	0	0	0	0	0	4	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
18 Kafr EL Seik	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
19 S Behera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Alexandria	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
21 Minya	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
22 Western Desert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Red Sea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Aswan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 New Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Gaza Strip	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
27 Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
28 Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Lybia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	172	0	0	4	0	0	25	104	0	32	150	0	14	0	29	11	104	0	4	11	0	0	0	0	0	0	0	0	0	0	659

O-D Matrix Qantara Taxi

Unit: Vehicles

Origin \ Destination	1 N Sinai 1	2 N Sinai 2	3 N Sinai 3	4 S Sinai 1	5 S Sinai 2	6 S Sinai 3	7 E Port Said	8 E Ismailia	9 E Suez	10 W Port Said	11 W Ismailia	12 W Suez	13 Damietta	14 E Dakhalia	15 N Sharkia	16 Qalubia	17 Cairo	18 Kafr EL Seik	19 S Behera	20 Alexandria	21 Minya	22 Western Des	23 Red Sea	24 Aswan	25 New Valley	26 Gaza Strip	27 Jordan	28 Israel	29 Lybia	30 Sudan	Total
1 N Sinai 1	0	0	0	0	0	0	0	0	0	0	74	0	0	0	6	12	59	0	0	0	0	0	0	0	0	0	0	0	0	0	152
2 N Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 N Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 S Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 S Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 S Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 E Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	9
8 E Ismailia	0	0	0	0	0	0	0	0	0	3	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
9 E Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 W Port Said	3	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
11 W Ismailia	96	0	0	0	0	0	3	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
12 W Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Damietta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 E Dakhalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 N Sharkia	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
16 Qalubia	12	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
17 Cairo	121	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
18 Kafr EL Seik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 S Behera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Alexandria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Minya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Western Desert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Red Sea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Aswan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 New Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Gaza Strip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Lybia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	235	0	0	0	0	0	3	40	0	3	96	0	0	0	6	15	65	0	0	0	0	0	0	0	0	0	0	0	0	0	464

Table 4.1.9 OD Matrix by vehicle Type by Survey Station (2/23)

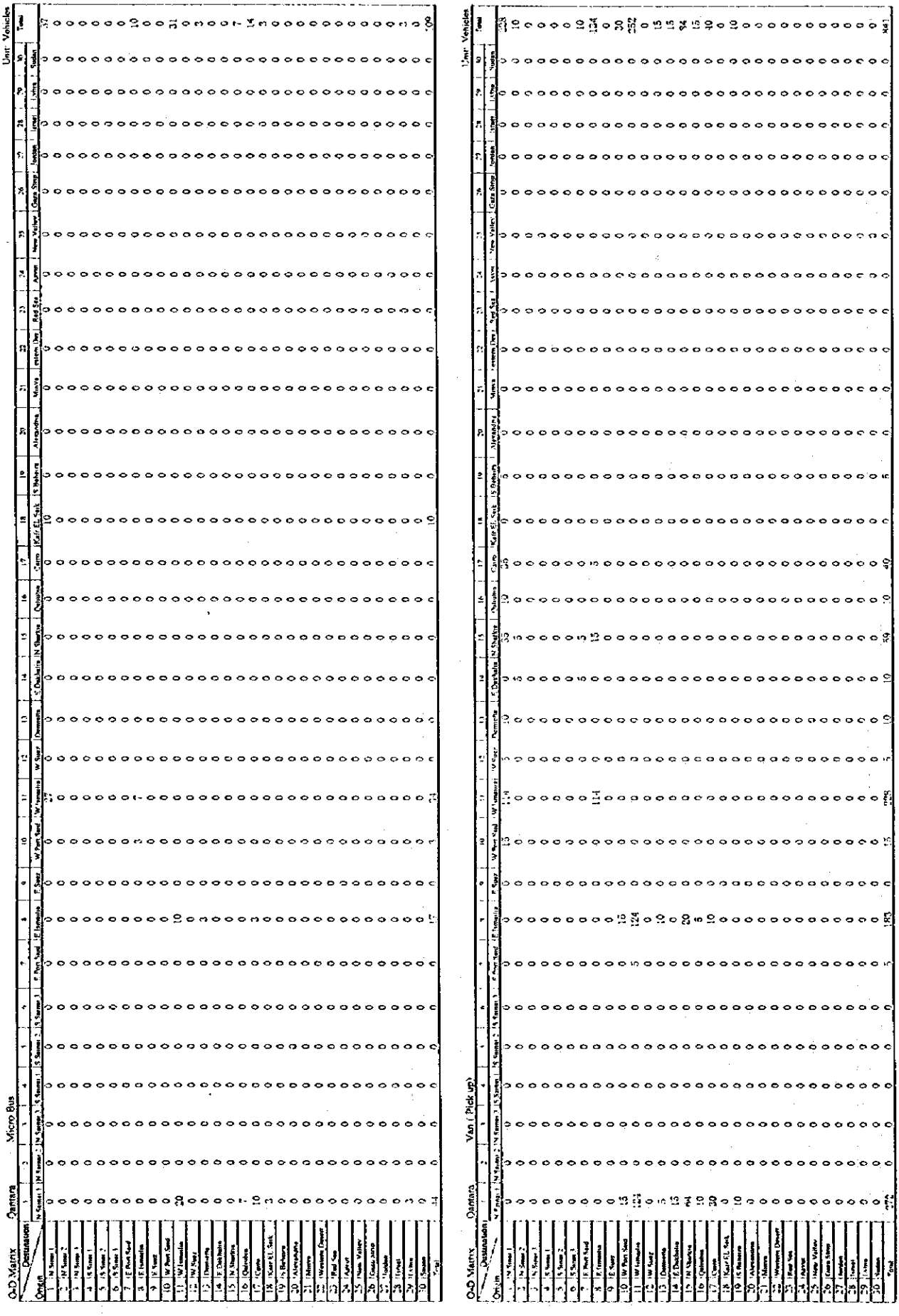


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (3/23)

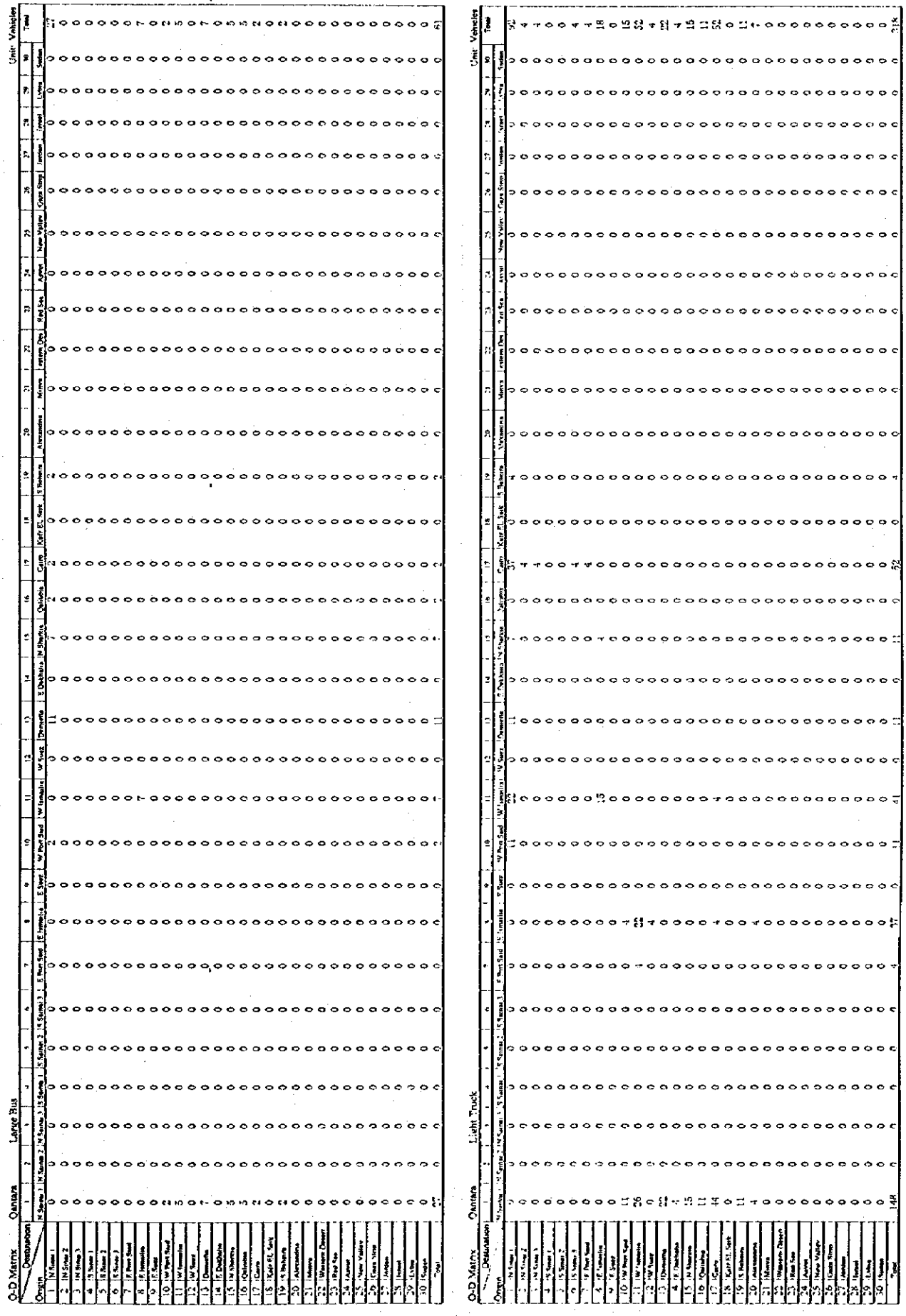


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (4/23)

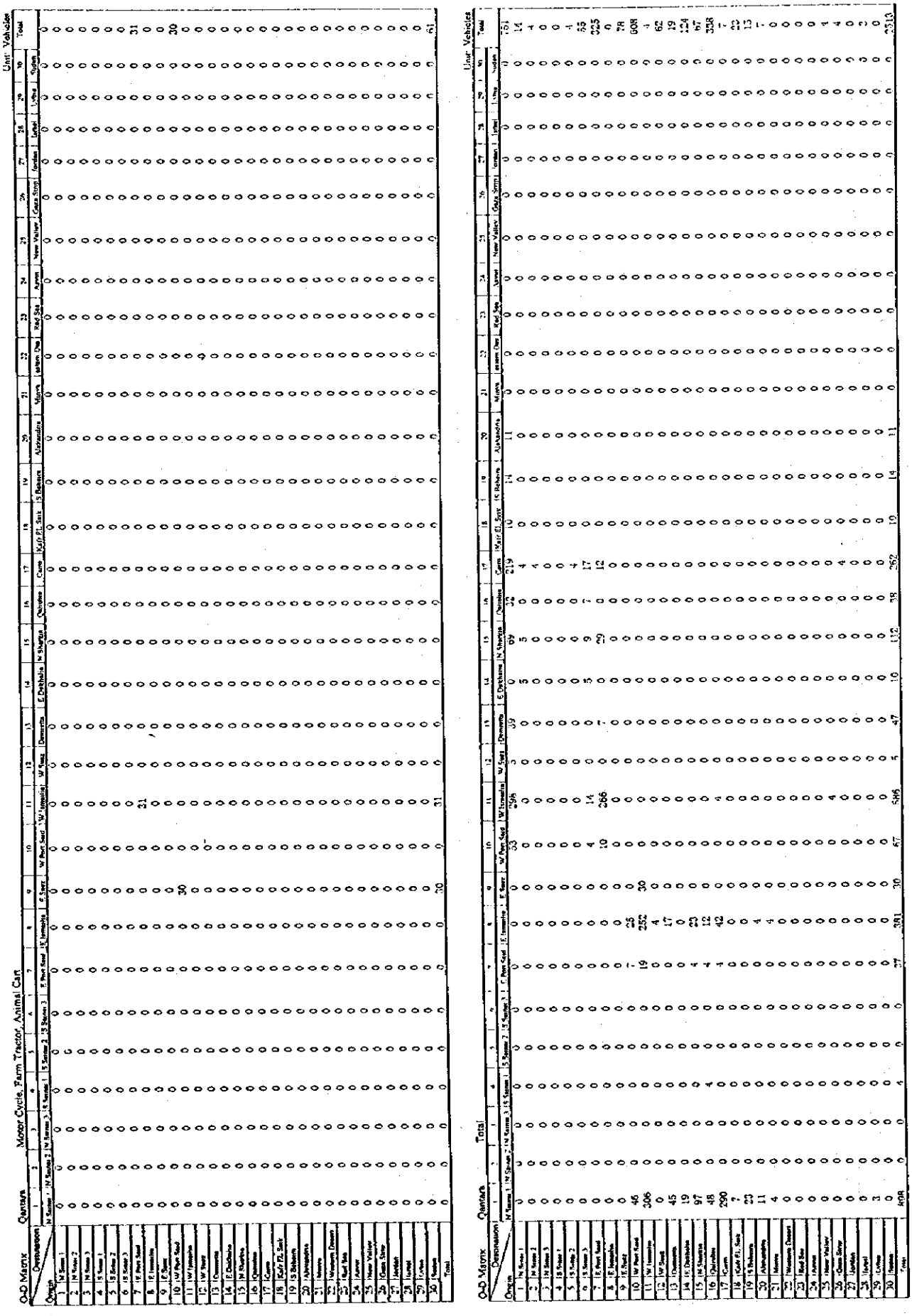


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (5/23)

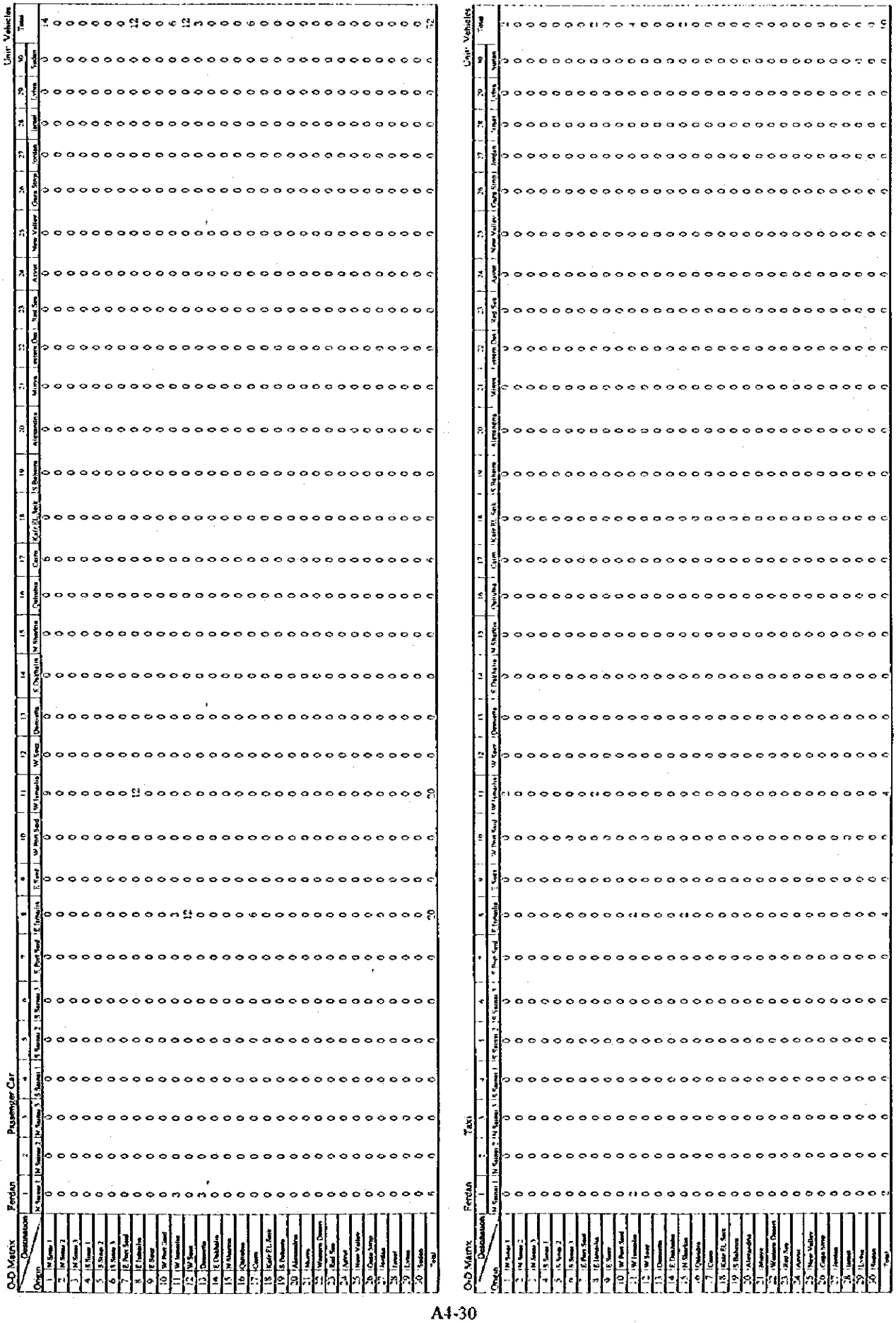


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (6/23)

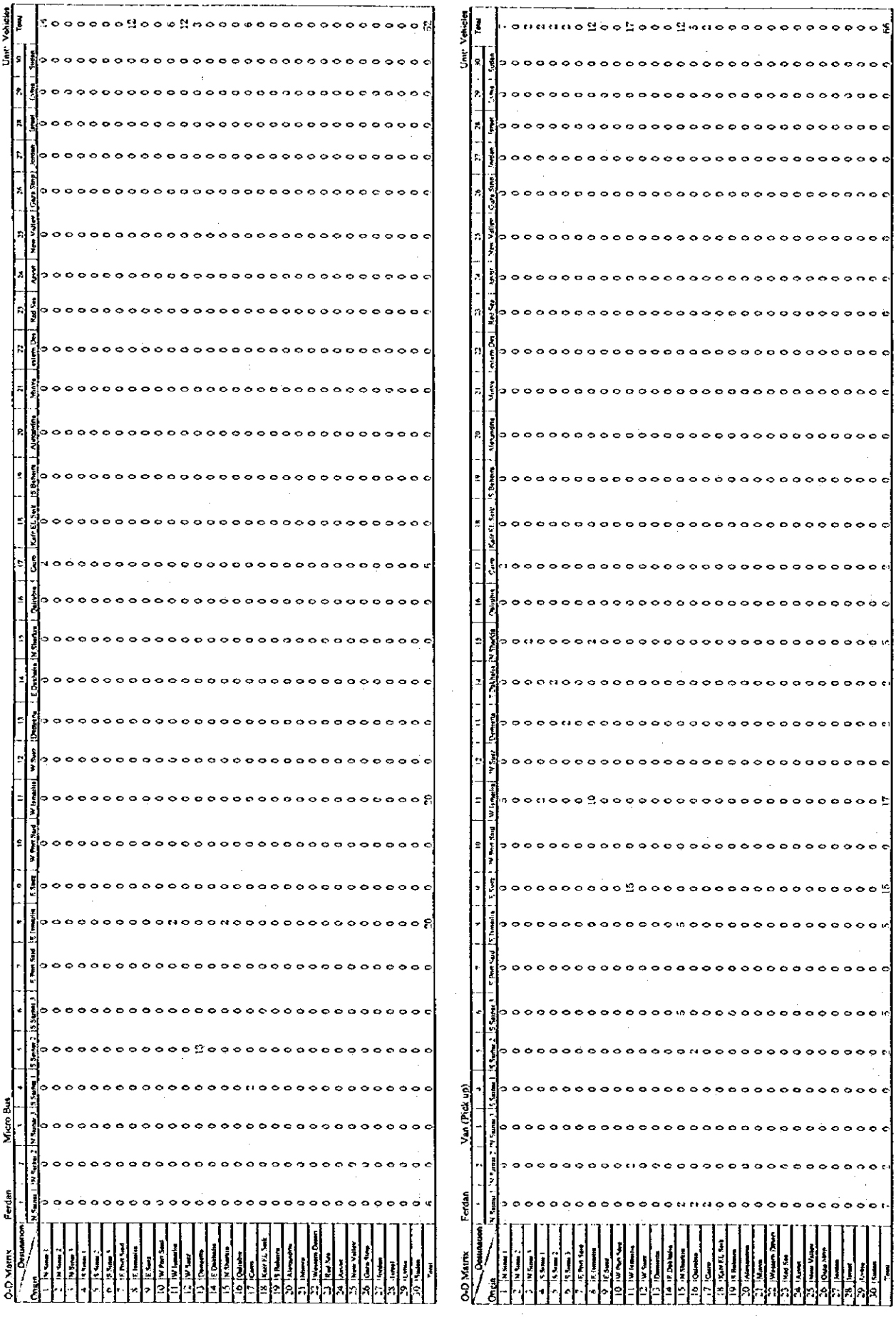


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (7/23)

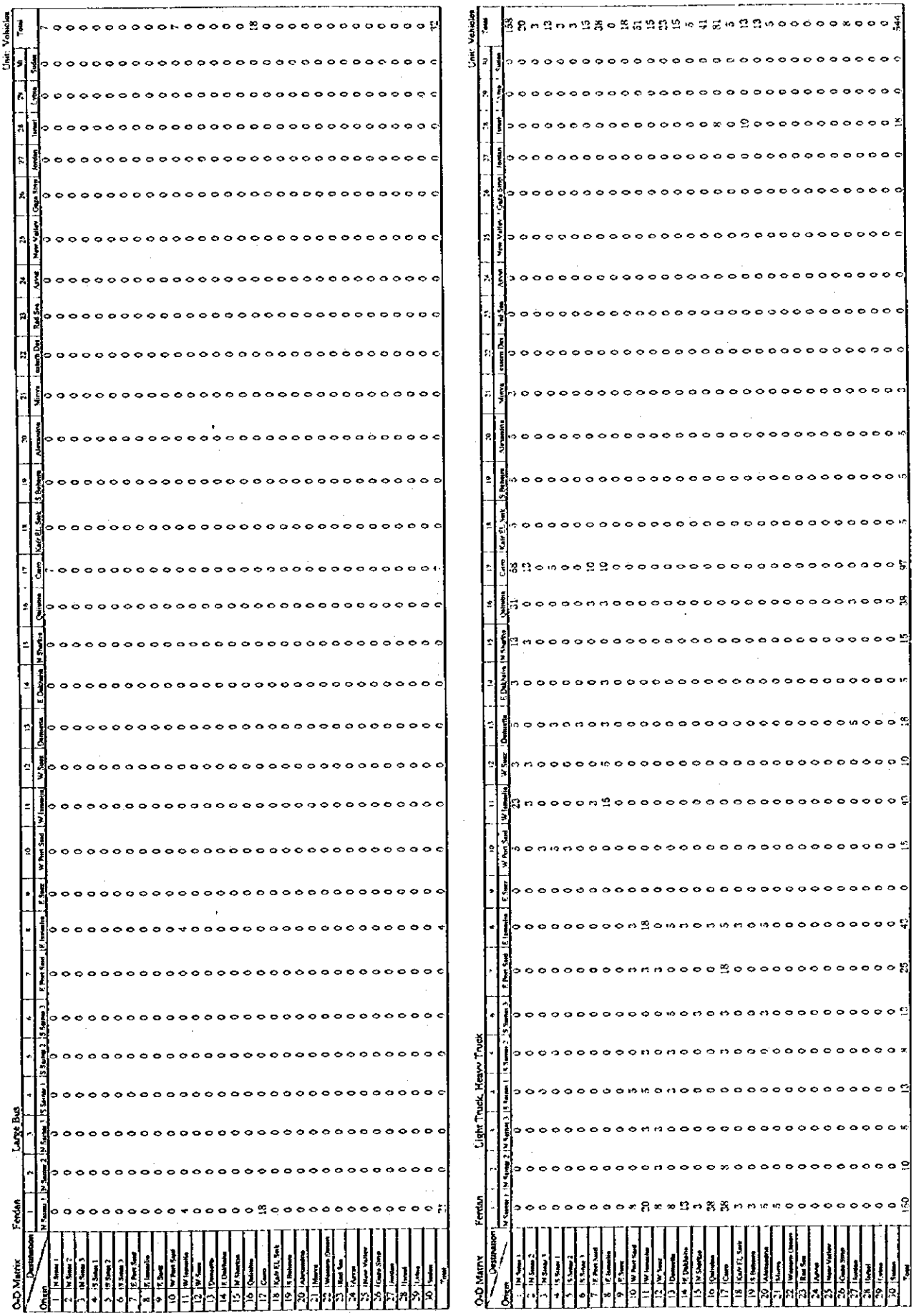


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (8/23)

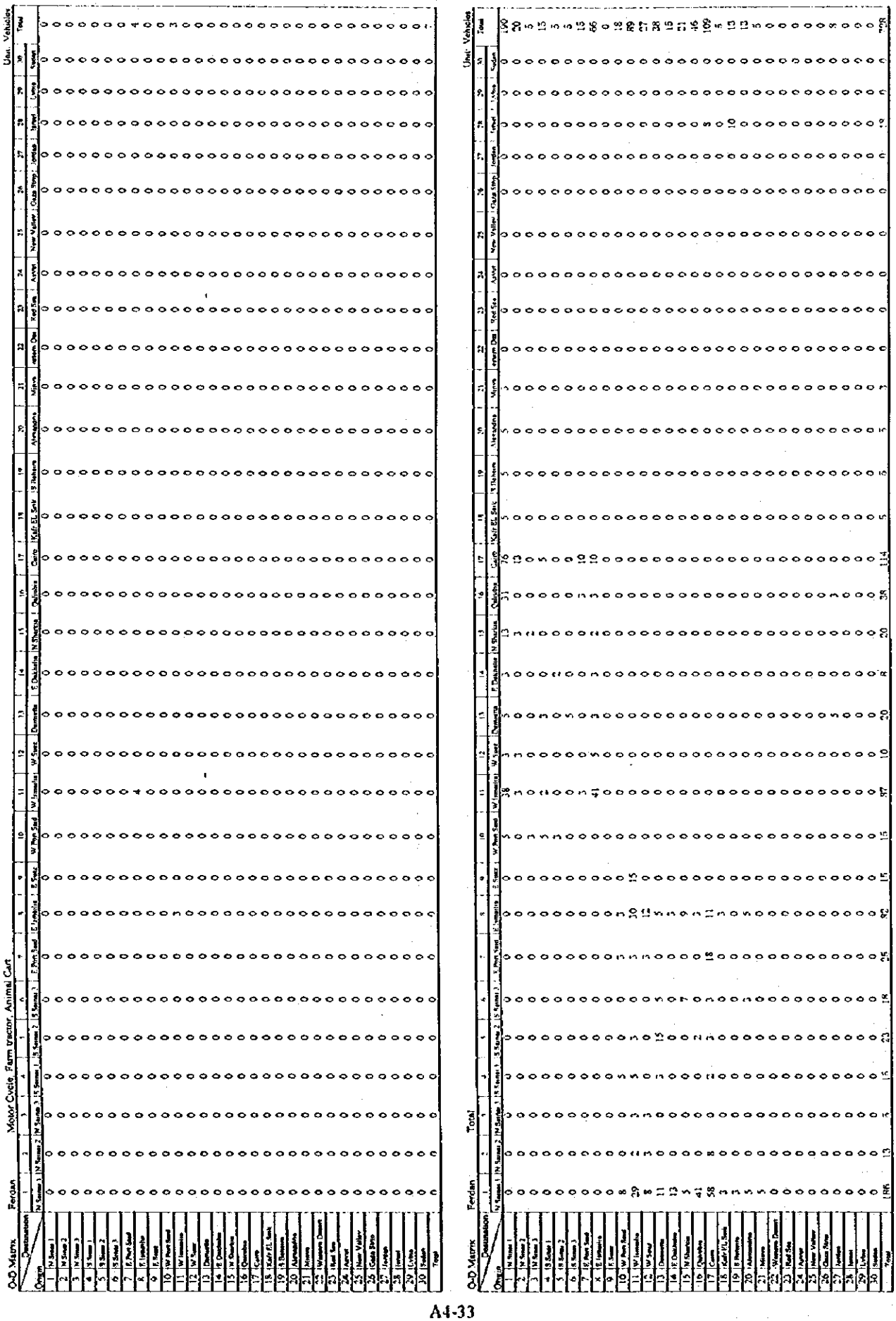


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (9/23)

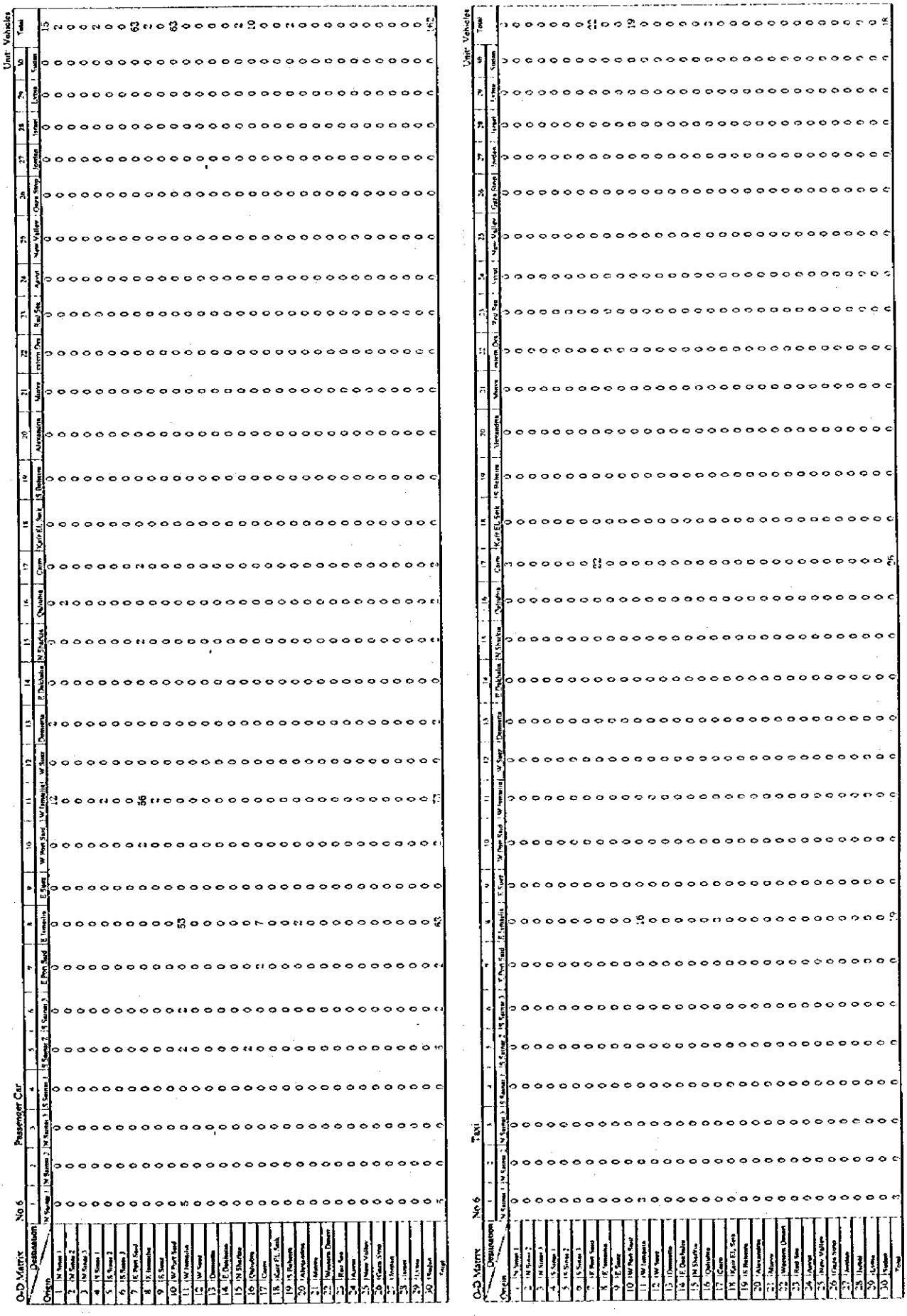


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (10/23)

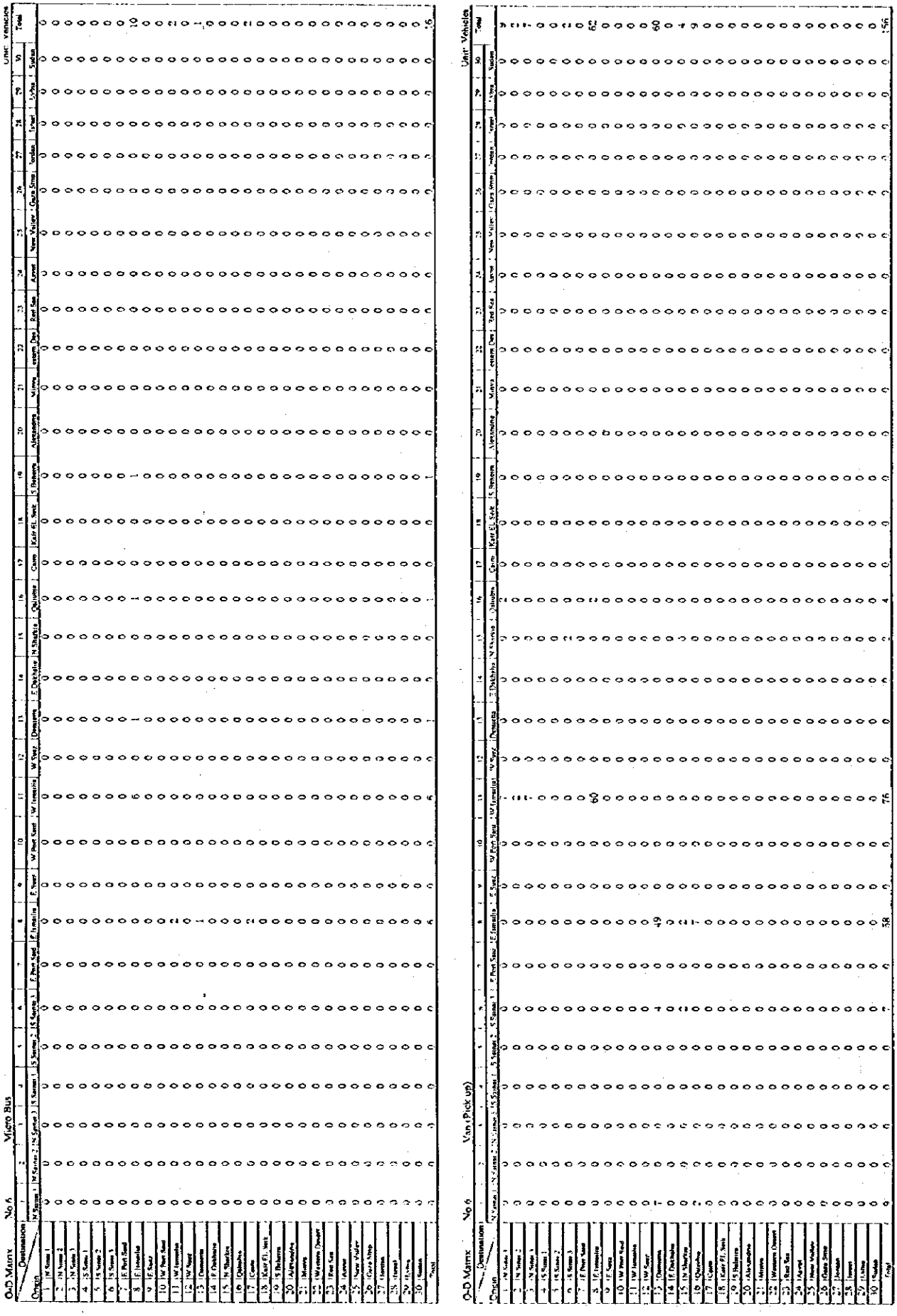


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (11/23)

O-D Matrix No.6 Large Bus

Unit: Vehicles

Origin \ Destination		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	Total
		N Sinai 1	N Sinai 2	N Sinai 3	S Sinai 1	S Sinai 2	S Sinai 3	E Port Said	E Ismailia	E Suez	W Port Said	W Ismailia	W Suez	Dimietta	E Dakhalia	N Sharkia	Qaliubia	Cairo	Kafr EL Seik	S Behera	Alexandria	Minya	Western Des	Red Sea	Aswan	New Valley	Gaza Strip	Jordan	Israel	Lybia	Sudan	
1	N Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	N Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	N Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	S Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	S Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	S Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	E Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	E Ismailia	0	0	0	0	0	0	0	0	0	0	6	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	10
9	E Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	W Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	W Ismailia	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12	W Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Dimietta	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	E Dakhalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	N Sharkia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Qaliubia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Cairo	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
18	Kafr EL Seik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	S Behera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Alexandria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Minya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Western Desert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Red Sea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Aswan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	New Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Gaza Strip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Lybia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	6	0	0	6	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	16

O-D Matrix No.6 Light Truck

Unit: Vehicles

Origin \ Destination		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	Total
		N Sinai 1	N Sinai 2	N Sinai 3	S Sinai 1	S Sinai 2	S Sinai 3	E Port Said	E Ismailia	E Suez	W Port Said	W Ismailia	W Suez	Dimietta	E Dakhalia	N Sharkia	Qaliubia	Cairo	Kafr EL Seik	S Behera	Alexandria	Minya	Western Des	Red Sea	Aswan	New Valley	Gaza Strip	Jordan	Israel	Lybia	Sudan	
1	N Sinai 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	N Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	N Sinai 3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4	S Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	S Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	S Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	E Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	E Ismailia	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
9	E Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	W Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	W Ismailia	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12	W Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Dimietta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	E Dakhalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	N Sharkia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Qaliubia	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	Cairo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Kafr EL Seik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	S Behera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Alexandria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Minya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Western Desert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Red Sea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Aswan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	New Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Gaza Strip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Lybia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	1	1	0	0	0	1	0	3	0	0	5	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	15

Table 4.1.9 OD Matrix by vehicle Type by Survey Station (12/23)

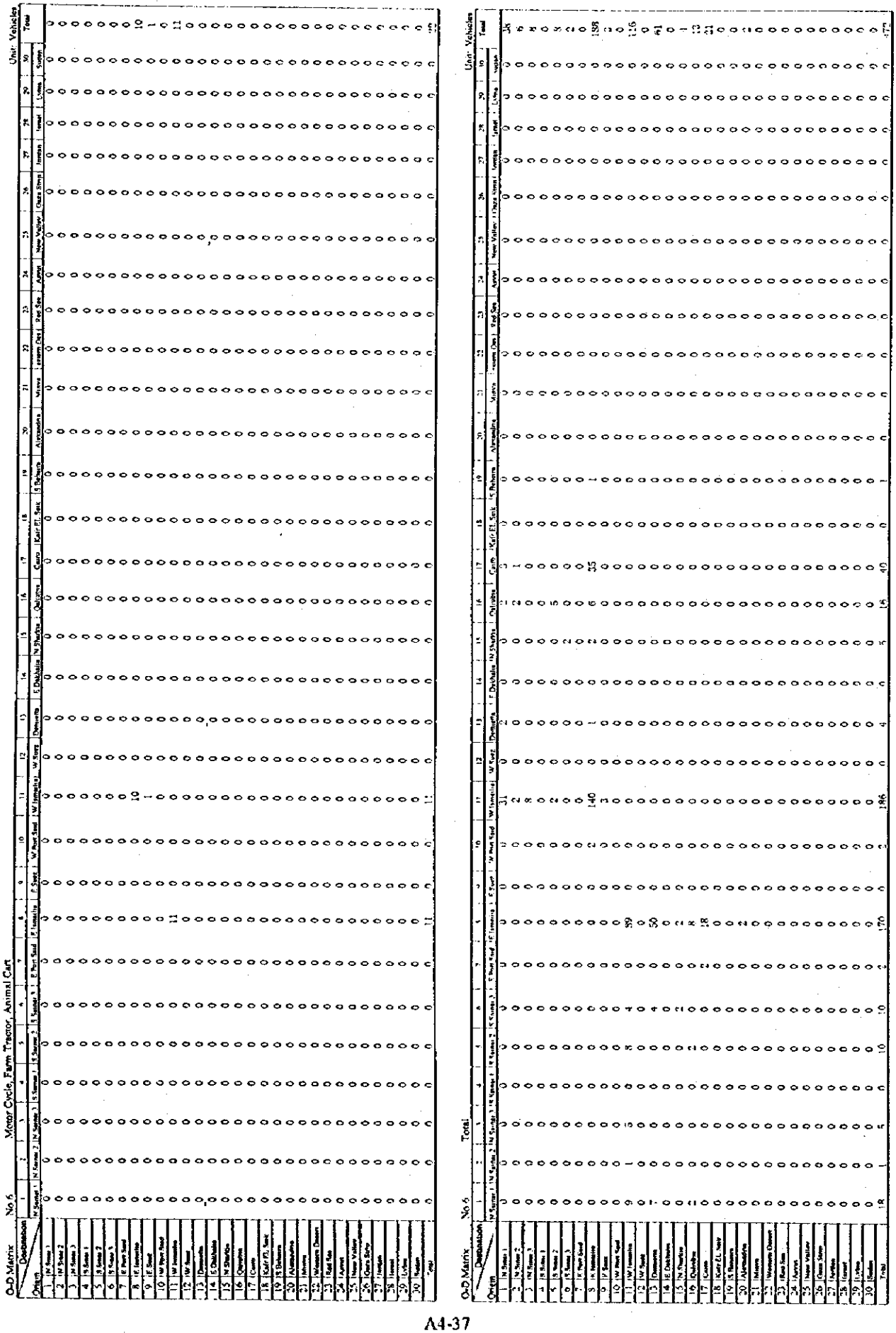


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (13/23)

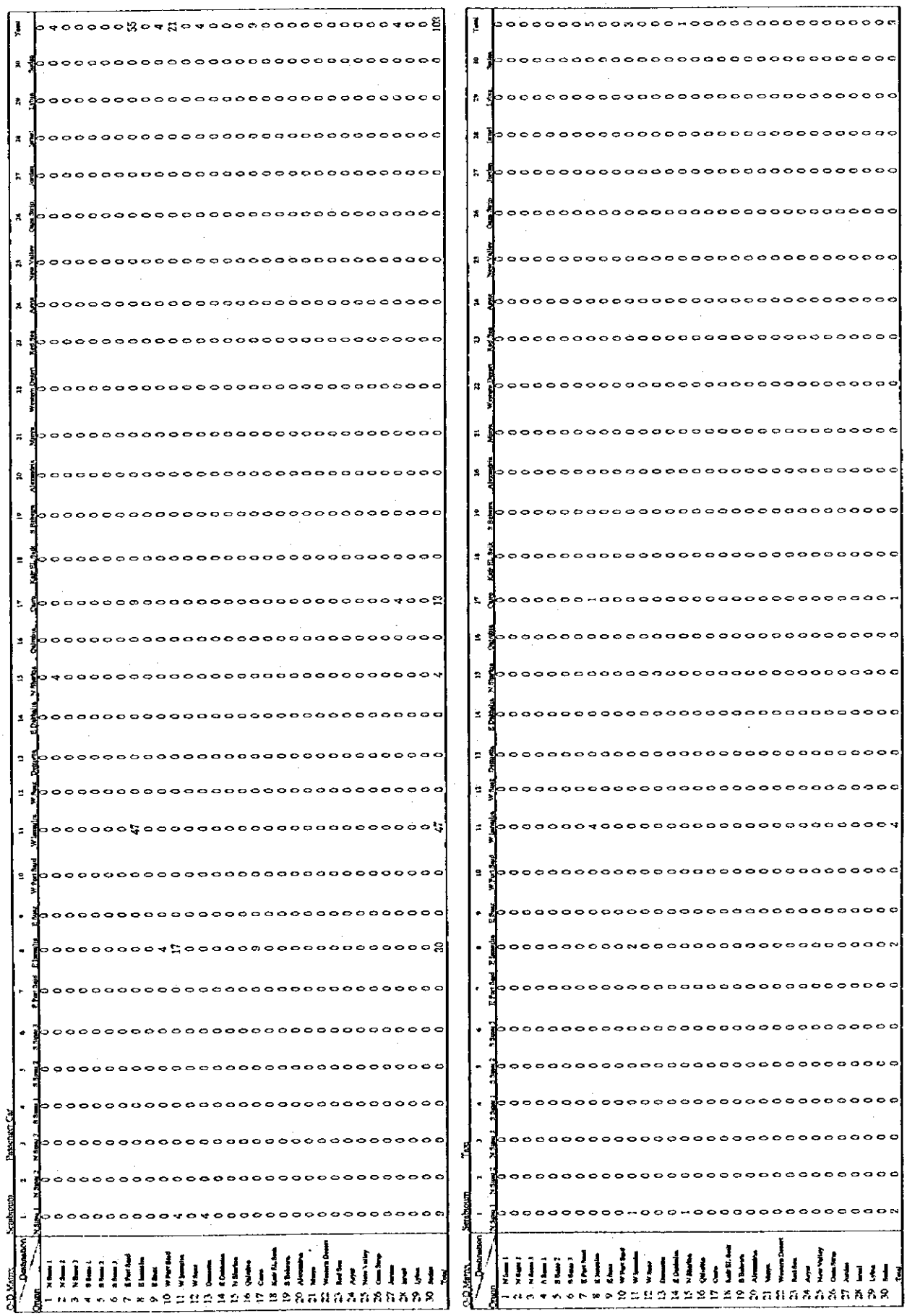


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (14/23)

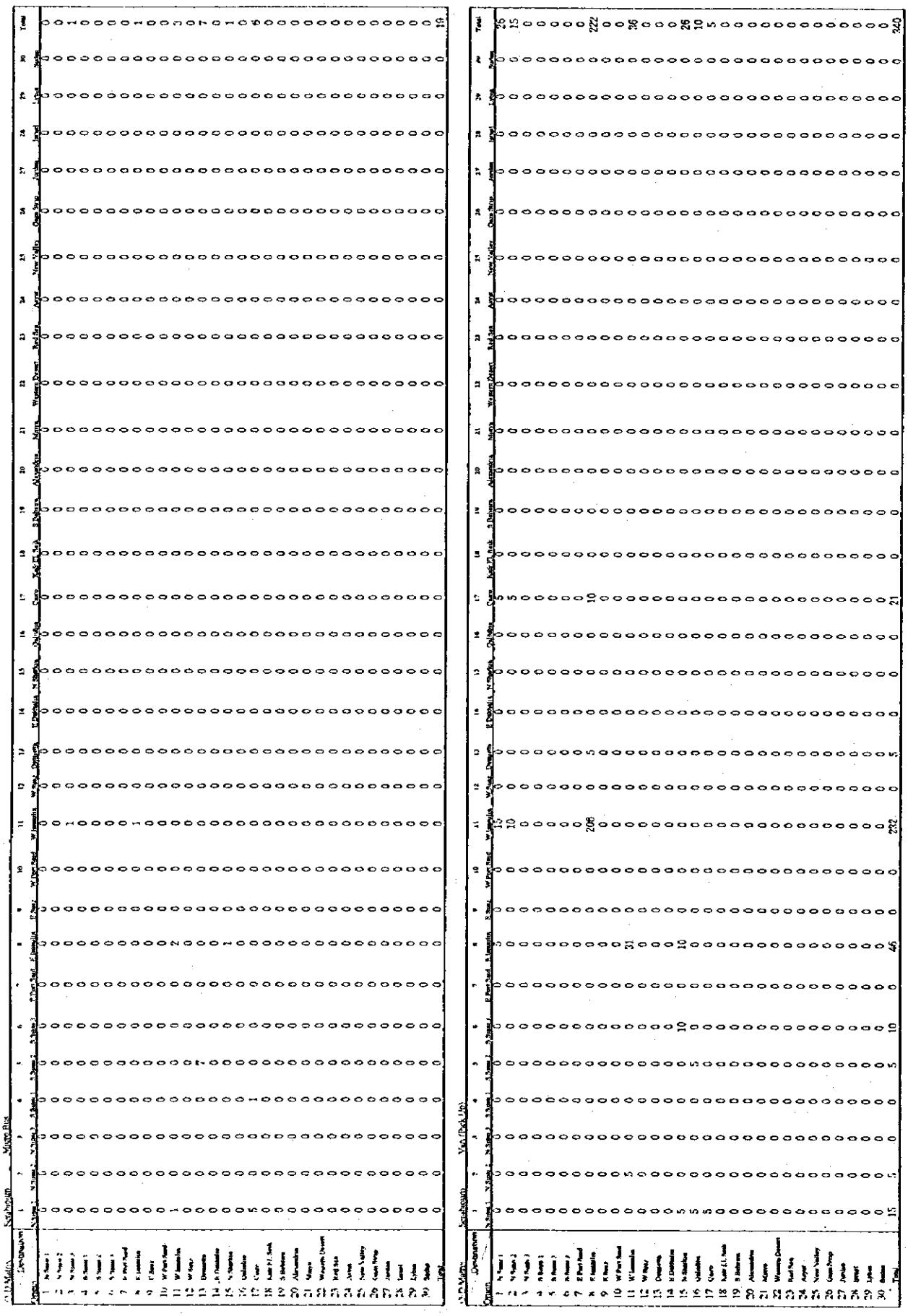


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (15/23)

Table 4.1.9 OD Matrix by vehicle Type by Survey Station (16/23)

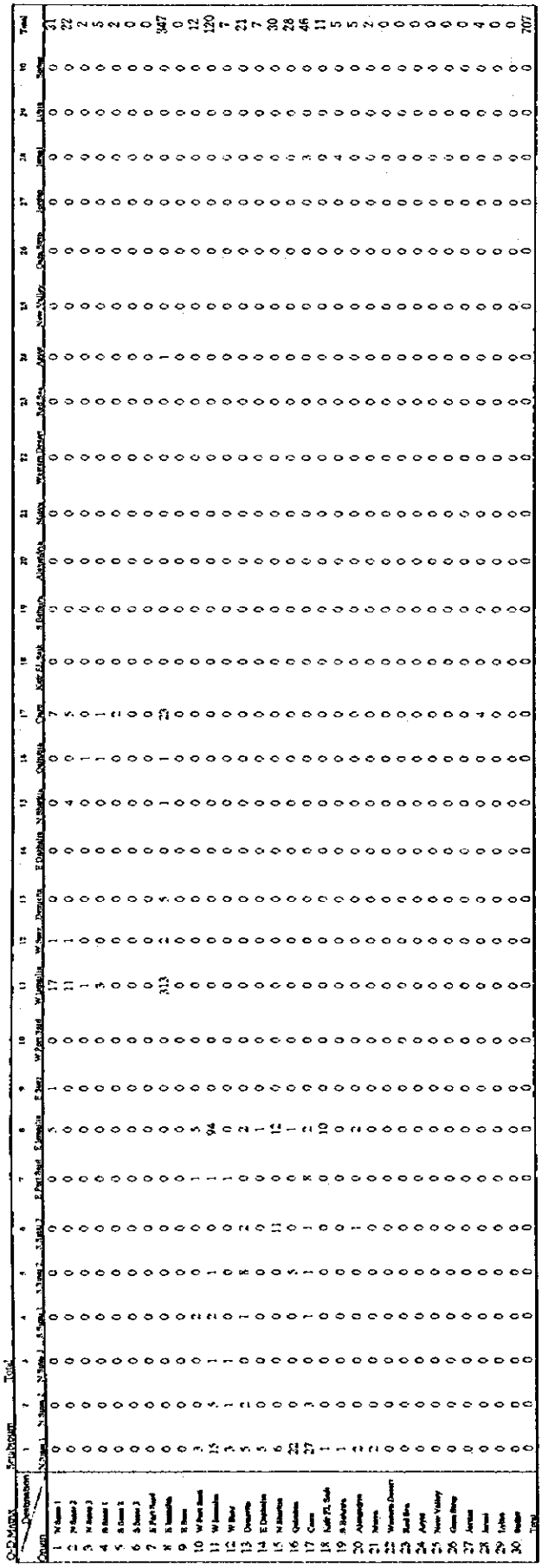


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (17/23)

O-D Matrix A.H.Tunnel Passenger Car — Unit: Vehicles

Origin \ Destination	1 N Sinai 1	2 N Sinai 2	3 N Sinai 3	4 S Sinai 1	5 S Sinai 2	6 S Sinai 3	7 E Port Said	8 E Ismailia	9 E Suez	10 W Port Said	11 W Ismailia	12 W Suez	13 Damietta	14 E Dakhalia	15 N Sharkia	16 Qaliubia	17 Cairo	18 Kafr EL Seik	19 S Beheira	20 Alexandria	21 Minya	22 Western Des	23 Red Sea	24 Aswan	25 New Valley	26 Gaza Strip	27 Jordan	28 Israel	29 Libya	30 Sudan	Total
1 N Sinai 1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
2 N Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 N Sinai 3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	8
4 S Sinai 1	0	0	0	0	0	0	0	0	0	0	3	31	0	0	0	0	21	0	0	5	0	0	0	0	0	0	0	0	0	0	60
5 S Sinai 2	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	2	0	36
6 S Sinai 3	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	18	0	3	0	0	0	0	0	0	0	0	0	0	0	29
7 E Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 E Ismailia	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9 E Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 W Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 W Ismailia	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
12 W Suez	3	0	8	36	0	5	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
13 Damietta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5
14 E Dakhalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 N Sharkia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Qaliubia	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
17 Cairo	5	0	5	34	21	62	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	133
18 Kafr EL Seik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 S Beheira	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
20 Alexandria	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
21 Minya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Western Desert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Red Sea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Aswan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 New Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Gaza Strip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
28 Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8	0	13	83	23	62	0	0	13	0	3	57	0	0	0	0	78	0	3	5	0	0	0	0	0	0	18	0	2	0	269

O-D Matrix A.H.Tunnel Taxi — Unit: Vehicles

Origin \ Destination	1 N Sinai 1	2 N Sinai 2	3 N Sinai 3	4 S Sinai 1	5 S Sinai 2	6 S Sinai 3	7 E Port Said	8 E Ismailia	9 E Suez	10 W Port Said	11 W Ismailia	12 W Suez	13 Damietta	14 E Dakhalia	15 N Sharkia	16 Qaliubia	17 Cairo	18 Kafr EL Seik	19 S Beheira	20 Alexandria	21 Minya	22 Western Des	23 Red Sea	24 Aswan	25 New Valley	26 Gaza Strip	27 Jordan	28 Israel	29 Libya	30 Sudan	Total
1 N Sinai 1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
2 N Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 N Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4 S Sinai 1	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	29
5 S Sinai 2	0	0	0	0	0	0	0	0	0	3	3	5	0	0	0	0	3	0	0	0	0	0	0	5	0	0	0	0	0	0	18
6 S Sinai 3	0	0	0	0	0	0	0	0	0	0	0	26	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
7 E Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 E Ismailia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 E Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 W Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 W Ismailia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 W Suez	0	0	3	47	5	23	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
13 Damietta	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	5
14 E Dakhalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 N Sharkia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Qaliubia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Cairo	0	3	0	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
18 Kafr EL Seik	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
19 S Beheira	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Alexandria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Minya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Western Desert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Red Sea	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
24 Aswan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 New Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Gaza Strip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	3	3	52	8	29	0	0	5	3	3	57	3	0	0	0	10	0	0	0	0	0	0	5	0	0	3	0	0	0	194

Table 4.1.9 OD Matrix by vehicle Type by Survey Station (18/23)

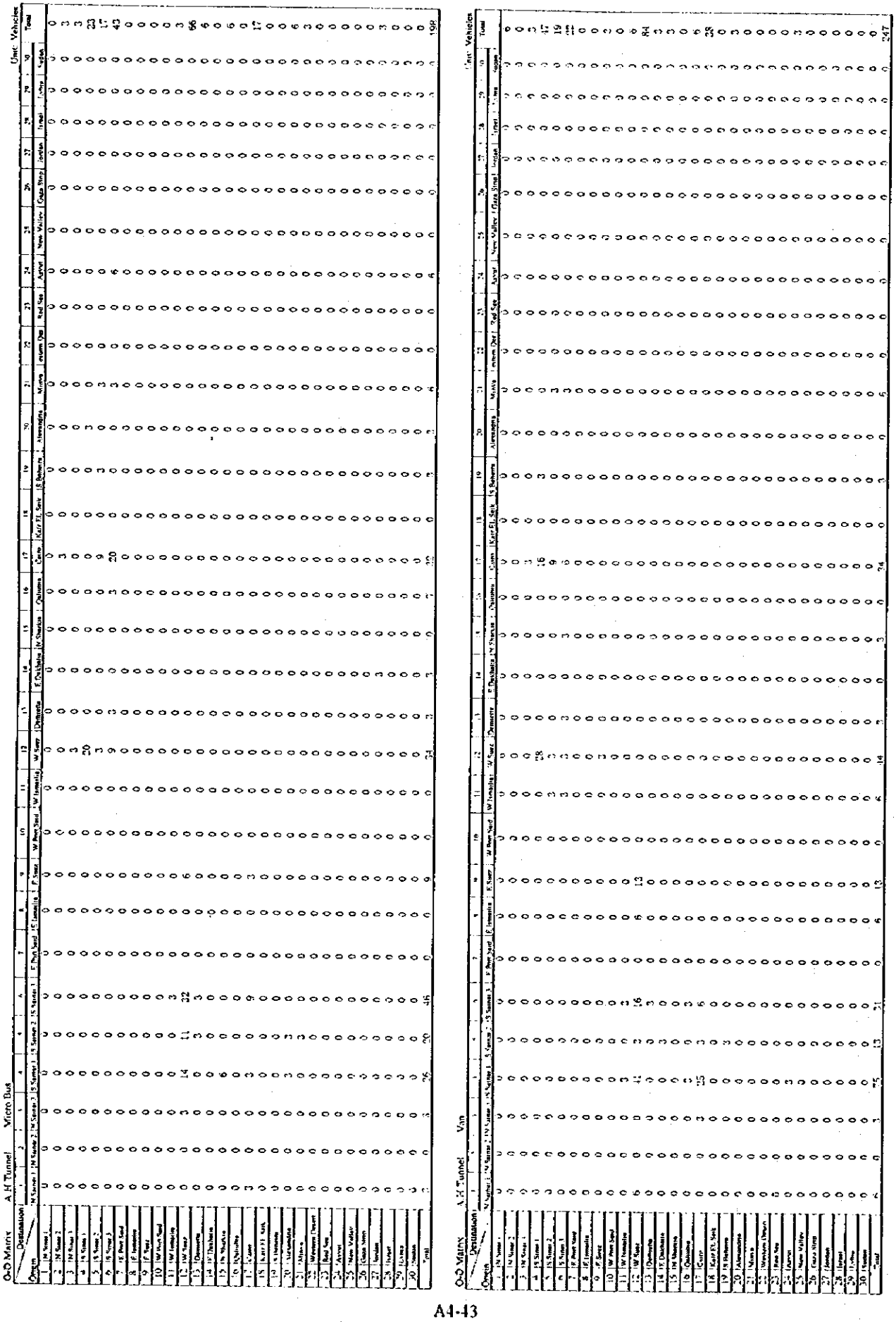


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (19/23)

O-D Matrix A.H Tunnel Large Bus Unit: Vehicles

Origin \ Destination	1 N Sinai 1	2 N Sinai 2	3 N Sinai 3	4 S Sinai 1	5 S Sinai 2	6 S Sinai 3	7 S Port Said	8 E Ismailia	9 E Suez	10 W Port Said	11 W Ismailia	12 W Suez	13 Damietta	14 E Dakhalia	15 N Sharkia	16 Qalyubia	17 Cairo	18 Kafr El. Sheik	19 G Behaira	20 Alexandria	21 Matrouh	22 Western Desert	23 Red Sea	24 Aswan	25 New Valley	26 Gaga Strip	27 Jordan	28 Israel	29 Libya	30 Sudan	Total
1 N Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 N Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 N Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 S Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
5 S Sinai 2	0	0	0	0	0	0	0	0	0	0	2	7	2	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	20
6 S Sinai 3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	37
7 E Port Said	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8 E Ismailia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 E Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 W Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 W Ismailia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 W Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Damietta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 E Dakhalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 N Sharkia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Qalyubia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Cairo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Kafr El. Sheik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 G Behaira	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Alexandria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Matrouh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Western Desert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Red Sea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Aswan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 New Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Gaga Strip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

O-D Matrix A.H Tunnel Light Truck Unit: Vehicles

Origin \ Destination	1 N Sinai 1	2 N Sinai 2	3 N Sinai 3	4 S Sinai 1	5 S Sinai 2	6 S Sinai 3	7 S Port Said	8 E Ismailia	9 E Suez	10 W Port Said	11 W Ismailia	12 W Suez	13 Damietta	14 E Dakhalia	15 N Sharkia	16 Qalyubia	17 Cairo	18 Kafr El. Sheik	19 G Behaira	20 Alexandria	21 Matrouh	22 Western Desert	23 Red Sea	24 Aswan	25 New Valley	26 Gaga Strip	27 Jordan	28 Israel	29 Libya	30 Sudan	Total
1 N Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 N Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 N Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 S Sinai 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 S Sinai 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 S Sinai 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 E Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 E Ismailia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 E Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 W Port Said	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 W Ismailia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 W Suez	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Damietta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 E Dakhalia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 N Sharkia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Qalyubia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Cairo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Kafr El. Sheik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 G Behaira	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Alexandria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 Matrouh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Western Desert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Red Sea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Aswan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 New Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Gaga Strip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Israel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 4.1.9 OD Matrix by vehicle Type by Survey Station (20/23)

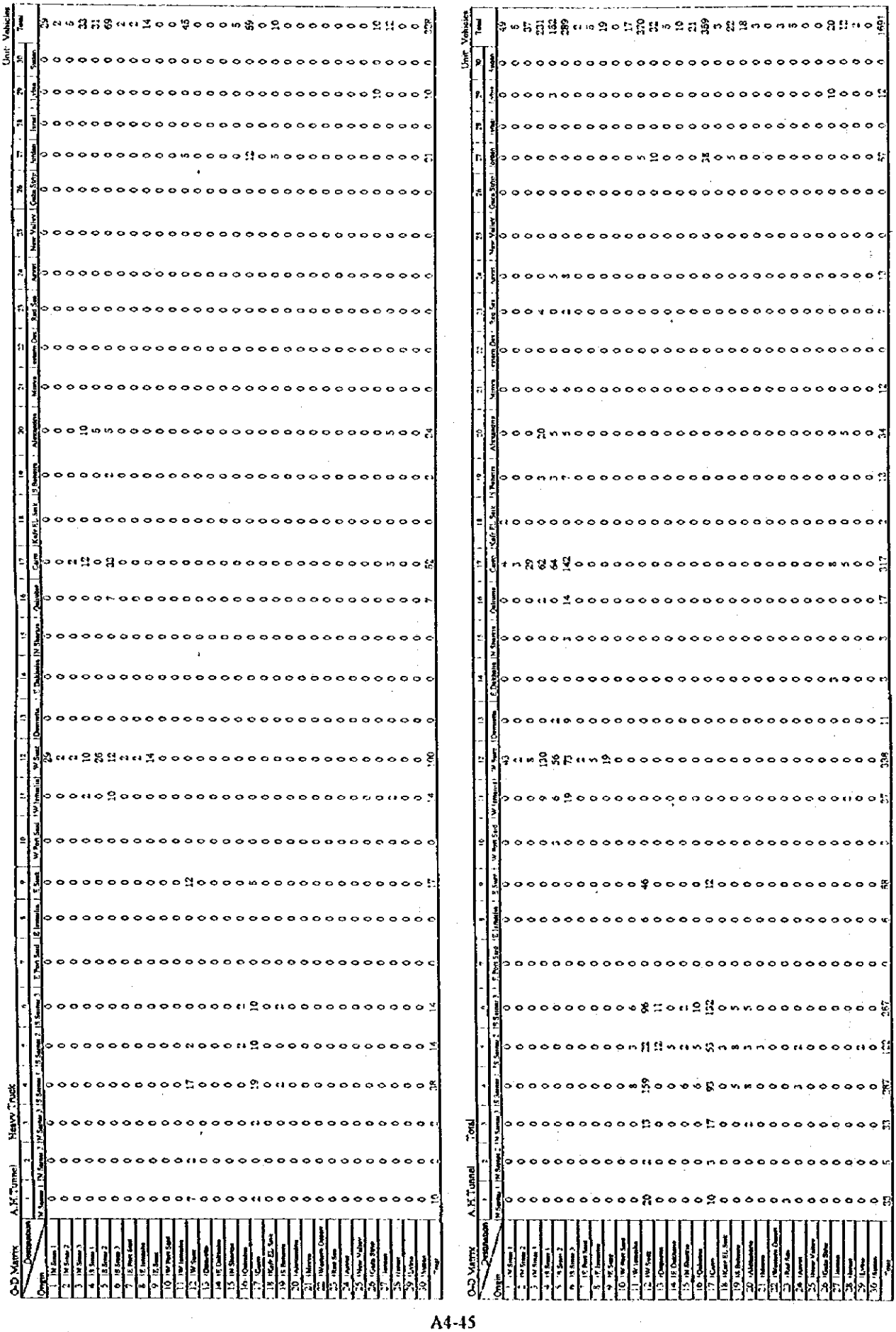


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (21/23)

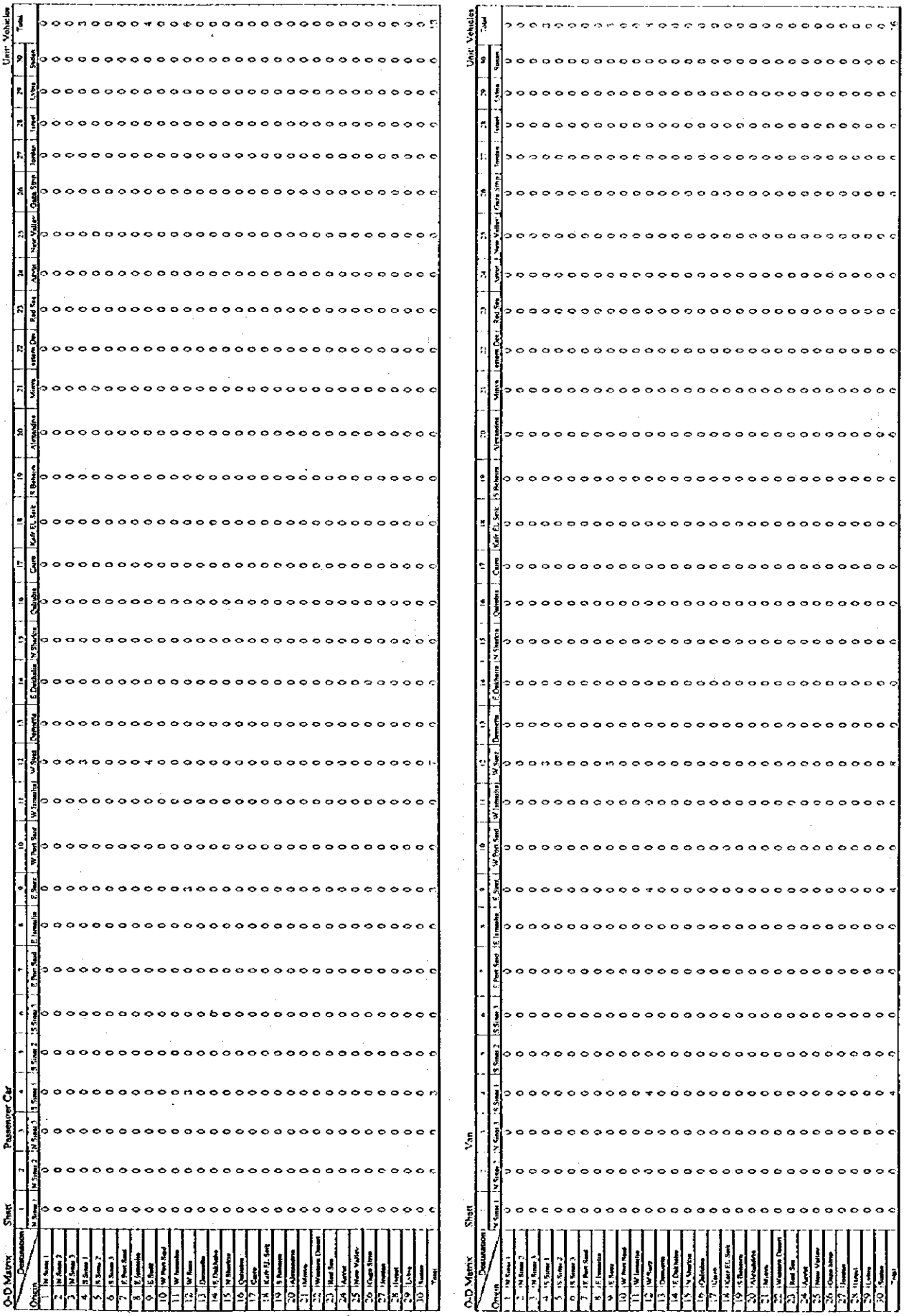


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (22/23)

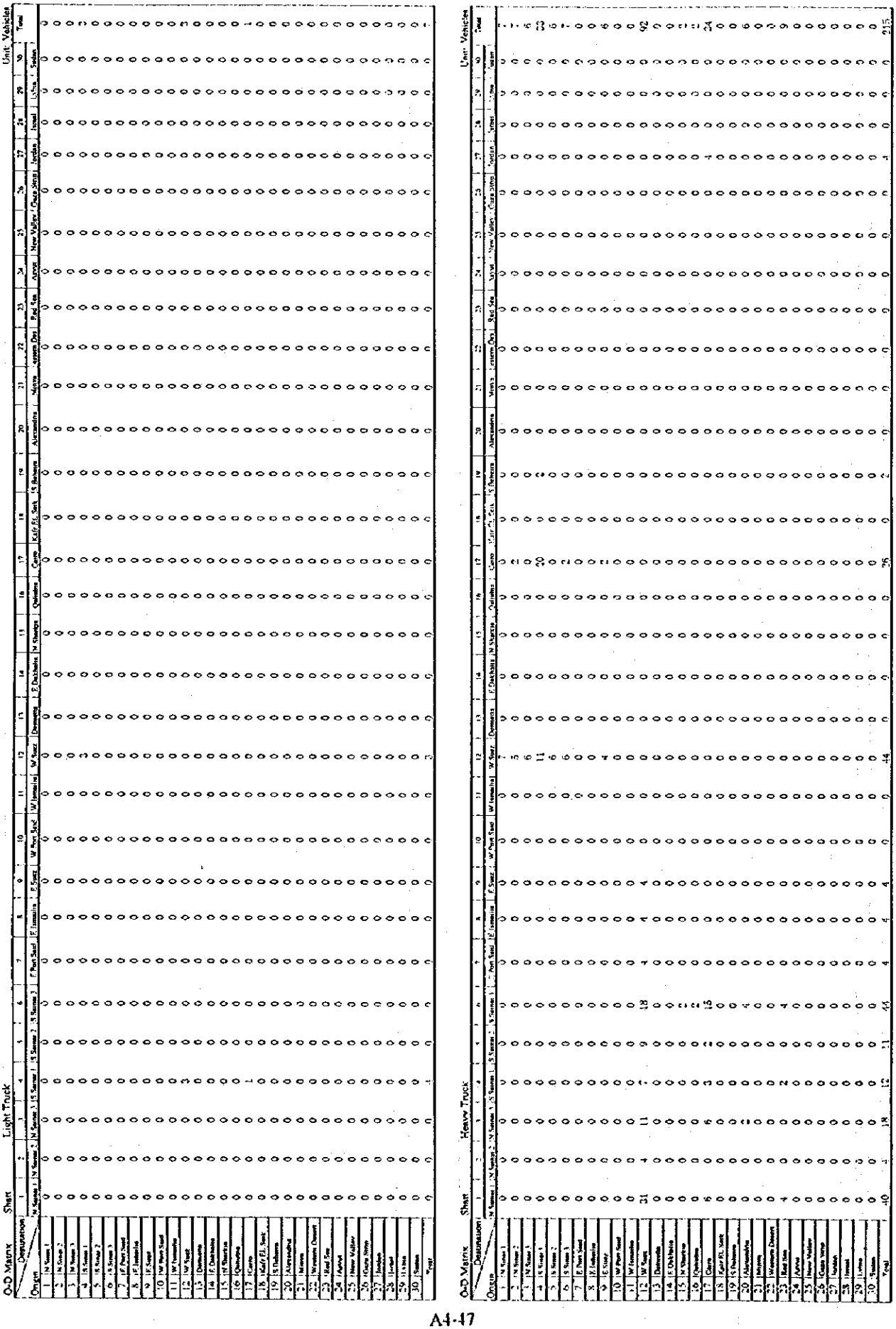
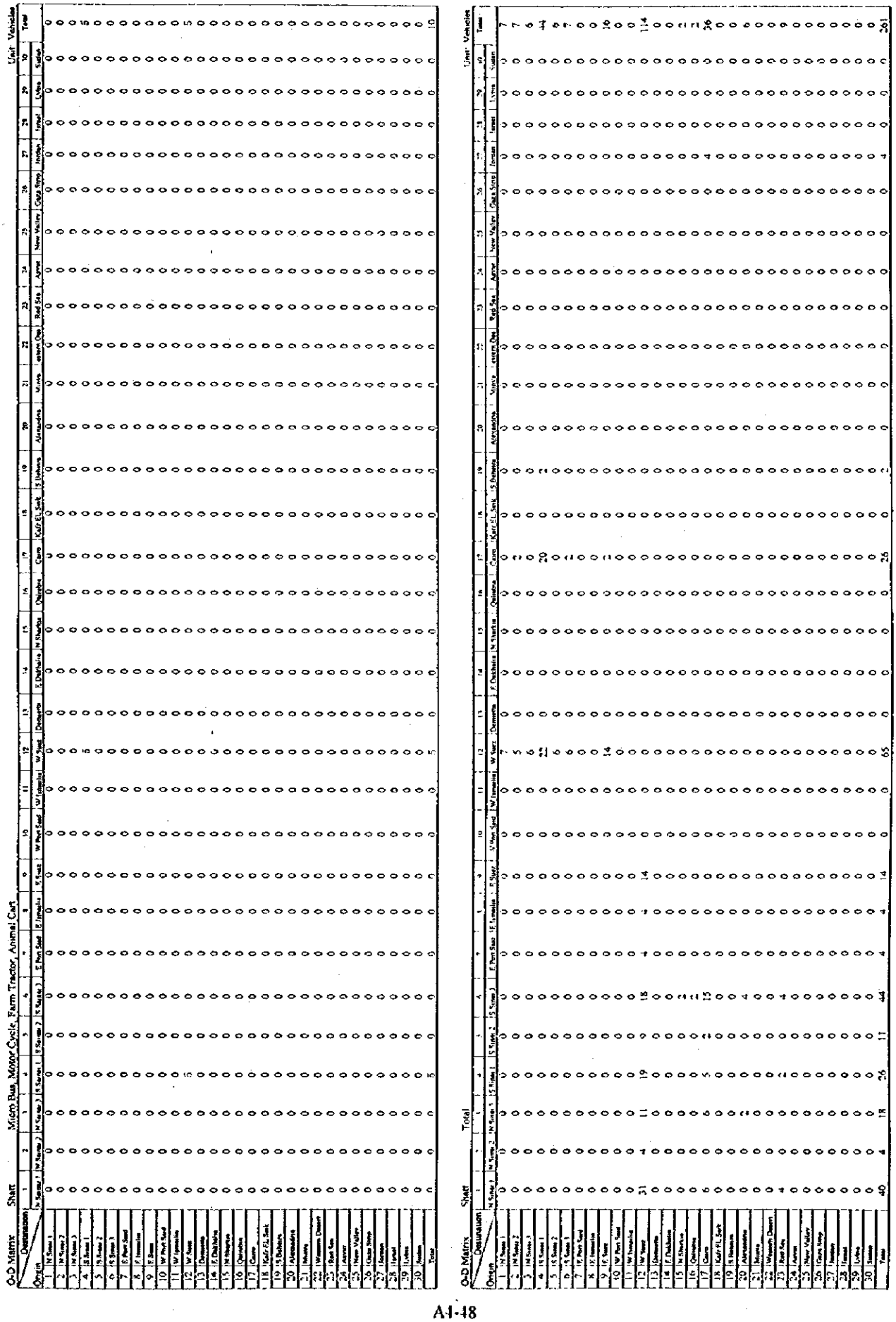


Table 4.1.9 OD Matrix by vehicle Type by Survey Station (23/23)



A 4.1.6 Results of Traffic Time Survey of the Vehicles Crossing the Suez Canal

Note:

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	2		3	4	5	6	7			

1 The serial numbers of the ferry crossing in survey period.
2 As same as that in Table 4.1.2
3 The time of the vehicle arrived the ferry station
4 The time of the vehicle boarded on the ferry
5 The time of departure of the ferry from one side.
6 The time of the ferry arrived the other side.
7 The time of the vehicle left the ferry.

Table 4.1.10 Crossing Time of Each Vehicle (1/22)

Qantara West to East Non Convoy Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
	5	560	11:10	11:30	11:33	11:37	11:39	0:23	0:06	0:29
	1	762	11:18	11:32	11:33	11:37	11:39	0:15	0:06	0:21
	2	1392	11:16	11:30	11:33	11:37	11:39	0:17	0:06	0:23
	2	4204	11:09	11:31	11:33	11:37	11:39	0:24	0:06	0:30
1	6	5025	11:15	11:32	11:33	11:37	11:39	0:18	0:06	0:24
	4	6960	11:01	11:29	11:33	11:37	11:39	0:32	0:06	0:38
	6	6975	11:04	11:29	11:33	11:37	11:39	0:29	0:06	0:35
	6	61201	11:06	11:30	11:33	11:37	11:39	0:27	0:06	0:33
	1	402824	11:09	11:29	11:33	11:37	11:39	0:24	0:06	0:30
	1	705128	11:18	11:32	11:33	11:37	11:39	0:15	0:06	0:21
	1	607	11:20	11:43	11:44	11:50	11:51	0:24	0:07	0:31
	2	1169	11:36	11:43	11:44	11:50	11:51	0:08	0:07	0:15
	4	3037	11:18	11:42	11:44	11:50	11:51	0:26	0:07	0:33
	2	3164	11:19	11:43	11:44	11:50	11:51	0:25	0:07	0:32
2	1	14650	11:30	11:43	11:44	11:50	11:51	0:14	0:07	0:21
	1	25576	11:17	11:40	11:44	11:50	11:51	0:27	0:07	0:34
	2	30332	11:30	11:43	11:44	11:50	11:51	0:14	0:07	0:21
	2	40493	11:32	11:43	11:44	11:50	11:51	0:12	0:07	0:19
	3	73687	11:33	11:43	11:44	11:50	11:51	0:11	0:07	0:18
	1	76094	11:17	11:40	11:44	11:50	11:51	0:27	0:07	0:34
	4	309684	11:34	11:41	11:44	11:50	11:51	0:10	0:07	0:17
	1	521993	11:20	11:42	11:44	11:50	11:51	0:24	0:07	0:31
	2	3	11:44	11:54	11:55	12:00	12:01	0:11	0:06	0:17
	4	525	11:49	11:52	11:55	12:00	12:01	0:06	0:06	0:12
	1	646	11:48	11:53	11:55	12:00	12:01	0:07	0:06	0:13
	2	1409	11:51	11:54	11:55	12:00	12:01	0:04	0:06	0:10
	2	1442	11:48	11:53	11:55	12:00	12:01	0:07	0:06	0:13
3	2	1492	11:48	11:52	11:55	12:00	12:01	0:07	0:06	0:13
	1	2020	11:45	11:51	11:55	12:00	12:01	0:10	0:06	0:16
	6	3133	11:50	11:52	11:55	12:00	12:01	0:05	0:06	0:11
	4	3716	11:46	11:52	11:55	12:00	12:01	0:09	0:06	0:15
	4	4742	11:53	11:54	11:55	12:00	12:01	0:02	0:06	0:08
	3	52347	11:35	11:51	11:55	12:00	12:01	0:20	0:06	0:26
	4	155805	11:36	11:51	11:55	12:00	12:01	0:19	0:06	0:25
	4	435	12:02	12:07	12:08	12:12	12:14	0:06	0:06	0:12
	2	1445	11:55	12:01	12:08	12:12	12:14	0:13	0:06	0:19
	6	2829	12:02	12:06	12:08	12:12	12:14	0:06	0:06	0:12
	1	3348	12:01	12:06	12:08	12:12	12:14	0:07	0:06	0:13
	2	4020	11:55	12:01	12:08	12:12	12:14	0:13	0:06	0:19
	2	4048	12:00	12:01	12:08	12:12	12:14	0:08	0:06	0:14
4	2	4071	11:55	12:02	12:08	12:12	12:14	0:13	0:06	0:19
	4	5195	12:03	12:07	12:08	12:12	12:14	0:05	0:06	0:11
	4	5291	11:57	12:03	12:08	12:12	12:14	0:11	0:06	0:17
	6	6078	11:58	12:06	12:08	12:12	12:14	0:10	0:06	0:16
	1	30282	11:57	12:02	12:08	12:12	12:14	0:11	0:06	0:17
	4	30429	12:02	12:07	12:08	12:12	12:14	0:06	0:06	0:12
	6	155024	11:48	12:00	12:08	12:12	12:14	0:20	0:06	0:26
	1	252402	12:04	12:07	12:08	12:12	12:14	0:04	0:06	0:10
	6	727	12:10	12:13	12:15	12:25	12:26	0:05	0:11	0:16
	2	1217	12:10	12:14	12:15	12:25	12:26	0:05	0:11	0:16
5	2	1529	12:07	12:13	12:15	12:25	12:26	0:08	0:11	0:19
	2	1660	12:12	12:13	12:15	12:25	12:26	0:03	0:11	0:14
	1	3546	12:11	12:13	12:15	12:25	12:26	0:04	0:11	0:15
	4	30637	12:06	12:13	12:15	12:25	12:26	0:09	0:11	0:20

Table 4.1.10 Crossing Time of Each Vehicle (2/22)

	2	26	17:10	17:24	17:30	17:34	17:35	0:20	0:05	0:25
	1	127	17:15	17:25	17:30	17:34	17:35	0:15	0:05	0:20
	4	203	17:11	17:22	17:30	17:34	17:35	0:19	0:05	0:24
	4	469	17:19	17:23	17:30	17:34	17:35	0:11	0:05	0:16
6	2	887	17:17	17:28	17:30	17:34	17:35	0:13	0:05	0:18
	2	1405	17:13	17:23	17:30	17:34	17:35	0:17	0:05	0:22
	4	3690	17:20	17:27	17:30	17:34	17:35	0:10	0:05	0:15
	6	4239	17:13	17:24	17:30	17:34	17:35	0:17	0:05	0:22
	4	5093	17:09	17:22	17:30	17:34	17:35	0:21	0:05	0:26
	4	5491	17:19	17:27	17:30	17:34	17:35	0:11	0:05	0:16
	4	7475	17:18	17:27	17:30	17:34	17:35	0:12	0:05	0:17
	1	30462	17:14	17:28	17:30	17:34	17:35	0:16	0:05	0:21
	1	50688	17:15	17:25	17:30	17:34	17:35	0:15	0:05	0:20
	6	775934	17:16	17:22	17:30	17:34	17:35	0:14	0:05	0:19
	1	1897	17:27	17:27	17:30	17:36	17:37	0:03	0:07	0:10
	1	10429	17:25	17:28	17:30	17:36	17:37	0:05	0:07	0:12
7	1	30459	17:20	17:24	17:30	17:36	17:37	0:10	0:07	0:17
	6	32553	17:21	17:27	17:30	17:36	17:37	0:09	0:07	0:16
	1	37491	17:27	17:28	17:30	17:36	17:37	0:03	0:07	0:10
	6	72651	17:24	17:25	17:30	17:36	17:37	0:06	0:07	0:13
	2	726	17:33	17:48	17:53	17:59	18:00	0:20	0:07	0:27
	2	1011	17:30	17:48	17:53	17:59	18:00	0:23	0:07	0:30
	4	1150	17:33	17:48	17:53	17:59	18:00	0:20	0:07	0:27
8	4	5028	17:38	17:49	17:53	17:59	18:00	0:15	0:07	0:22
	4	5079	17:44	17:50	17:53	17:59	18:00	0:09	0:07	0:16
	4	5552	17:31	17:48	17:53	17:59	18:00	0:22	0:07	0:29
	4	30140	17:32	17:49	17:53	17:59	18:00	0:21	0:07	0:28
	4	45837	17:42	17:49	17:53	17:59	18:00	0:11	0:07	0:18
	5	126	17:21	17:48	17:54	17:59	18:00	0:33	0:06	0:39
	2	1389	17:48	17:51	17:54	17:59	18:00	0:06	0:06	0:12
	3	3665	17:40	17:49	17:54	17:59	18:00	0:14	0:06	0:20
	4	4295	17:44	17:49	17:54	17:59	18:00	0:10	0:06	0:16
9	6	7057	17:32	17:52	17:54	17:59	18:00	0:22	0:06	0:28
	6	16640	17:39	17:49	17:54	17:59	18:00	0:15	0:06	0:21
	6	16964	17:31	17:48	17:54	17:59	18:00	0:23	0:06	0:29
	4	31146	17:42	17:50	17:54	17:59	18:00	0:12	0:06	0:18
	6	61177	17:45	17:50	17:54	17:59	18:00	0:09	0:06	0:15
	1	801312	17:35	17:49	17:54	17:59	18:00	0:19	0:06	0:25
	4	7272	17:10	18:02	18:06	18:12	18:14	0:56	0:08	1:04
10	2	1633	17:15	18:02	18:06	18:12	18:14	0:51	0:08	0:59
	4	5103	17:17	18:03	18:06	18:12	18:14	0:49	0:08	0:57
	1	2020	17:20	18:02	18:06	18:12	18:14	0:46	0:08	0:54
							Average	0:16	0:06	0:22

Note:
Survey Duration: 16:00 to 18:00
No of Ferries: 2
No of Crossings: 10

Table 4.1.10 Crossing Time of Each Vehicle (3/22)

Qantara West to East Convoy Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
	5	224	16:10	16:15	16:20	16:24	16:25	0:10	0:05	0:15
	2	1417	16:06	16:17	16:20	16:24	16:25	0:14	0:05	0:19
1	1	2897	16:01	16:14	16:20	16:24	16:25	0:19	0:05	0:24
	3	4579	16:02	16:15	16:20	16:24	16:25	0:18	0:05	0:23
	1	86160	16:02	16:16	16:20	16:24	16:25	0:18	0:05	0:23
	1	328839	16:02	16:20	16:20	16:24	16:25	0:18	0:05	0:23
	2	381	16:12	16:34	16:39	16:44	16:45	0:27	0:06	0:33
	2	428	16:16	16:38	16:39	16:44	16:45	0:23	0:06	0:29
	1	480	16:16	16:34	16:39	16:44	16:45	0:23	0:06	0:29
	2	1110	16:35	16:38	16:39	16:44	16:45	0:04	0:06	0:10
	2	1615	16:08	16:38	16:39	16:44	16:45	0:31	0:06	0:37
2	4	1800	16:07	16:35	16:39	16:44	16:45	0:32	0:06	0:38
	3	3697	16:18	16:36	16:39	16:44	16:45	0:21	0:06	0:27
	6	4213	16:30	16:37	16:39	16:44	16:45	0:09	0:06	0:15
	4	5229	16:03	16:36	16:39	16:44	16:45	0:36	0:06	0:42
	4	5292	16:21	16:35	16:39	16:44	16:45	0:18	0:06	0:24
	1	5625	16:16	16:36	16:39	16:44	16:45	0:23	0:06	0:29
	4	31630	16:34	16:37	16:39	16:44	16:45	0:05	0:06	0:11
	4	39297	16:06	16:35	16:39	16:44	16:45	0:33	0:06	0:39
	4	117189	16:19	16:37	16:39	16:44	16:45	0:20	0:06	0:26
	1	153927	16:06	16:34	16:39	16:44	16:45	0:33	0:06	0:39
	1	210823	16:31	16:37	16:39	16:44	16:45	0:08	0:06	0:14
	4	3706	16:31	16:41	16:43	16:58	16:59	0:12	0:16	0:28
	2	4794	16:40	16:41	16:43	16:58	16:59	0:03	0:16	0:19
	4	10151	16:29	16:40	16:43	16:58	16:59	0:14	0:16	0:30
	4	41401	16:36	16:41	16:43	16:58	16:59	0:07	0:16	0:23
3	6	45625	16:29	16:41	16:43	16:58	16:59	0:14	0:16	0:30
	6	57537	16:35	16:42	16:43	16:58	16:59	0:08	0:16	0:24
	4	61820	16:21	16:40	16:43	16:58	16:59	0:22	0:16	0:38
	1	782824	16:40	16:42	16:43	16:58	16:59	0:03	0:16	0:19
	5	9	16:44	16:57	17:07	17:12	17:13	0:23	0:06	0:29
	5	82	16:53	17:02	17:07	17:12	17:13	0:14	0:06	0:20
	2	91	16:50	17:02	17:07	17:12	17:13	0:17	0:06	0:23
	2	96	16:54	16:59	17:07	17:12	17:13	0:13	0:06	0:19
4	2	897	16:47	16:58	17:07	17:12	17:13	0:20	0:06	0:26
	1	1932	16:56	16:58	17:07	17:12	17:13	0:11	0:06	0:17
	1	2239	16:55	16:59	17:07	17:12	17:13	0:12	0:06	0:18
	4	3717	16:45	16:57	17:07	17:12	17:13	0:22	0:06	0:28
	2	4563	16:50	16:58	17:07	17:12	17:13	0:17	0:06	0:23
	4	16337	16:50	16:58	17:07	17:12	17:13	0:17	0:06	0:23
	4	30541	16:53	16:59	17:07	17:12	17:13	0:14	0:06	0:20
	4	1023	17:05	17:08	17:08	17:14	17:15	0:03	0:07	0:10
	2	1442	17:00	17:08	17:08	17:14	17:15	0:08	0:07	0:15
	2	1612	16:58	17:08	17:08	17:14	17:15	0:10	0:07	0:17
	4	3310	16:53	17:07	17:08	17:14	17:15	0:15	0:07	0:22
5	1	7454	17:01	17:08	17:08	17:14	17:15	0:07	0:07	0:14
	1	12111	17:01	17:07	17:08	17:14	17:15	0:07	0:07	0:14
	1	21693	16:57	17:07	17:08	17:14	17:15	0:11	0:07	0:18
	1	123272	17:04	17:08	17:08	17:14	17:15	0:04	0:07	0:11
	4	156362	16:54	17:07	17:08	17:14	17:15	0:14	0:07	0:21

Table 4.1.10 Crossing Time of Each Vehicle (4/22)

	4	376	12:25	12:26	12:31	12:34	12:35	0:06	0:04	0:10
	2	1560	12:19	12:25	12:31	12:34	12:35	0:12	0:04	0:16
	2	3738	12:17	12:19	12:31	12:34	12:35	0:14	0:04	0:18
	2	4631	12:26	12:27	12:31	12:34	12:35	0:05	0:04	0:09
	2	30063	12:26	12:27	12:31	12:34	12:35	0:05	0:04	0:09
6	4	30263	12:16	12:18	12:31	12:34	12:35	0:15	0:04	0:19
	1	30293	12:20	12:26	12:31	12:34	12:35	0:11	0:04	0:15
	4	30354	12:21	12:26	12:31	12:34	12:35	0:10	0:04	0:14
	4	30520	12:16	12:18	12:31	12:34	12:35	0:15	0:04	0:19
	1	41049	12:21	12:25	12:31	12:34	12:35	0:10	0:04	0:14
	4	114871	12:26	12:28	12:31	12:34	12:35	0:05	0:04	0:09
	2	221	12:37	12:39	12:44	12:49	12:50	0:07	0:06	0:13
	1	1388	12:35	12:36	12:44	12:49	12:50	0:09	0:06	0:15
	4	2062	12:41	12:43	12:44	12:49	12:50	0:03	0:06	0:09
	1	2429	12:40	12:41	12:44	12:49	12:50	0:04	0:06	0:10
	2	4014	12:36	12:38	12:44	12:49	12:50	0:08	0:06	0:14
7	4	5036	12:40	12:42	12:44	12:49	12:50	0:04	0:06	0:10
	4	6732	12:40	12:44	12:44	12:49	12:50	0:04	0:06	0:10
	4	10464	12:42	12:42	12:44	12:49	12:50	0:02	0:06	0:08
	4	60164	12:31	12:36	12:44	12:49	12:50	0:13	0:06	0:19
	1	355791	12:35	12:36	12:44	12:49	12:50	0:09	0:06	0:15
	2	522	12:50	12:52	12:52	12:56	12:57	0:02	0:05	0:07
	2	829	12:46	12:51	12:52	12:56	12:57	0:06	0:05	0:11
	6	4174	12:47	12:51	12:52	12:56	12:57	0:05	0:05	0:10
	2	4819	12:48	12:50	12:52	12:56	12:57	0:04	0:05	0:09
8	1	11733	12:43	12:50	12:52	12:56	12:57	0:09	0:05	0:14
	4	29885	12:44	12:52	12:52	12:56	12:57	0:08	0:05	0:13
	4	30047	12:50	12:51	12:52	12:56	12:57	0:02	0:05	0:07
	1	41311	12:47	12:51	12:52	12:56	12:57	0:05	0:05	0:10
	1	113177	12:51	12:52	12:52	12:56	12:57	0:01	0:05	0:06
	2	4153	12:54	13:09	13:12	13:17	13:18	0:18	0:06	0:24
	4	5536	12:58	13:10	13:12	13:17	13:18	0:14	0:06	0:20
9	1	9900	12:59	13:12	13:12	13:17	13:18	0:13	0:06	0:19
	3	25005	12:53	13:09	13:12	13:17	13:18	0:19	0:06	0:25
	1	212864	12:55	13:09	13:12	13:17	13:18	0:17	0:06	0:23
							Average	0:11	0:06	0:17

Note:
Survey Duration: 11:00 to 13:00
No of Ferries: 2
No of Crossings: 9

Table 4.1.10 Crossing Time of Each Vehicle (5/22)

Qantara East to West Non Convoy Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (d-c)	Vehicle Crossing Time (c-a)+(d-c)
	3	7	11:02	11:06	11:11	11:16	11:17	0:09	0:06	0:15
	1	801840	11:06	11:08	11:11	11:16	11:17	0:05	0:06	0:11
1	4	71492	11:06	11:09	11:11	11:16	11:17	0:05	0:06	0:11
	4	2062	11:07	11:08	11:11	11:16	11:17	0:04	0:06	0:10
	4	4040	11:08	11:09	11:11	11:16	11:17	0:03	0:06	0:09
	1	4014	11:09	11:10	11:11	11:16	11:17	0:02	0:06	0:08
	1	38270	11:10	11:10	11:11	11:16	11:17	0:01	0:06	0:07
	4	30140	11:14	11:18	11:22	11:26	11:27	0:08	0:05	0:13
	1	4317	11:14	11:17	11:22	11:26	11:27	0:08	0:05	0:13
2	6	51772	11:16	11:18	11:22	11:26	11:27	0:06	0:05	0:11
	1	1312	11:17	11:20	11:22	11:26	11:27	0:05	0:05	0:10
	1	12	11:17	11:19	11:22	11:26	11:27	0:05	0:05	0:10
	6	70139	11:18	11:20	11:22	11:26	11:27	0:04	0:05	0:09
	6	5074	11:18	11:20	11:22	11:26	11:27	0:04	0:05	0:09
	1	34616	11:21	11:29	11:35	11:38	11:40	0:14	0:05	0:19
	1	720201	11:24	11:29	11:35	11:38	11:40	0:11	0:05	0:16
	1	3502	11:25	11:29	11:35	11:38	11:40	0:10	0:05	0:15
	5	220	11:26	11:30	11:35	11:38	11:40	0:09	0:05	0:14
3	4	6829	11:27	11:30	11:35	11:38	11:40	0:08	0:05	0:13
	1	9	11:28	11:35	11:35	11:38	11:40	0:07	0:05	0:12
	4	5047	11:28	11:30	11:35	11:38	11:40	0:07	0:05	0:12
	1	30457	11:28	11:31	11:35	11:38	11:40	0:07	0:05	0:12
	4	10518	11:30	11:32	11:35	11:38	11:40	0:05	0:05	0:10
	4	29885	11:30	11:32	11:35	11:38	11:40	0:05	0:05	0:10
	4	120	11:31	11:33	11:35	11:38	11:40	0:04	0:05	0:09
	1	3625	11:31	11:34	11:35	11:38	11:40	0:04	0:05	0:09
	1	292183	11:32	11:34	11:35	11:38	11:40	0:03	0:05	0:08
	1	183	11:32	11:39	11:44	11:50	11:51	0:12	0:07	0:19
	1	3727	11:32	11:39	11:44	11:50	11:51	0:12	0:07	0:19
	4	30041	11:33	11:39	11:44	11:50	11:51	0:11	0:07	0:18
	6	3910	11:35	11:40	11:44	11:50	11:51	0:09	0:07	0:16
4	1	1397	11:36	11:40	11:44	11:50	11:51	0:08	0:07	0:15
	4	154872	11:37	11:39	11:44	11:50	11:51	0:07	0:07	0:14
	2	30216	11:39	11:41	11:44	11:50	11:51	0:05	0:07	0:12
	6	70330	11:40	11:42	11:44	11:50	11:51	0:04	0:07	0:11
	1	1470	11:41	11:43	11:44	11:50	11:51	0:03	0:07	0:10
	3	221	11:43	11:44	11:44	11:50	11:51	0:01	0:07	0:08
	4	90003	11:43	11:44	11:44	11:50	11:51	0:01	0:07	0:08
	1	3673	11:45	11:52	11:53	11:59	12:00	0:08	0:07	0:15
	2	297	11:45	11:52	11:53	11:59	12:00	0:08	0:07	0:15
	6	7617	11:45	11:52	11:53	11:59	12:00	0:08	0:07	0:15
	6	7562	11:45	11:52	11:53	11:59	12:00	0:08	0:07	0:15
5	1	11251	11:46	11:53	11:53	11:59	12:00	0:07	0:07	0:14
	3	3697	11:47	11:52	11:53	11:59	12:00	0:06	0:07	0:13
	1	319343	11:48	11:53	11:53	11:59	12:00	0:05	0:07	0:12
	4	60668	11:49	11:53	11:53	11:59	12:00	0:04	0:07	0:11
	4	52785	11:51	11:53	11:53	11:59	12:00	0:02	0:07	0:09
	3	3446	11:51	11:54	12:05	12:11	12:13	0:14	0:08	0:22
	1	4344	11:52	11:54	12:05	12:11	12:13	0:13	0:08	0:21
	1	1328	11:52	11:54	12:05	12:11	12:13	0:13	0:08	0:21
	4	5552	11:53	12:01	12:05	12:11	12:13	0:12	0:08	0:20
6	2	11103	11:57	12:02	12:05	12:11	12:13	0:08	0:08	0:16
	2	1405	11:57	12:01	12:05	12:11	12:13	0:08	0:08	0:16
	1	8429	12:00	12:02	12:05	12:11	12:13	0:05	0:08	0:13
	4	5669	12:00	12:01	12:05	12:11	12:13	0:05	0:08	0:13
	1	30145	12:01	12:03	12:05	12:11	12:13	0:04	0:08	0:12
	1	129165	12:01	12:02	12:05	12:11	12:13	0:04	0:08	0:12
	3	51	12:01	12:03	12:05	12:11	12:13	0:04	0:08	0:12
	3	30023	12:01	12:04	12:05	12:11	12:13	0:04	0:08	0:12
	4	6287	12:02	12:05	12:05	12:11	12:13	0:03	0:08	0:11

Table 4.1.10 Crossing Time of Each Vehicle (6/22)

	4	3823	12:02	12:04	12:05	12:11	12:13	0:03	0:08	0:11
6	4	5057	12:03	12:05	12:05	12:11	12:13	0:02	0:08	0:10
	2	393	12:03	12:05	12:05	12:11	12:13	0:02	0:08	0:10
	4	30612	12:02	12:03	12:05	12:11	12:13	0:03	0:08	0:11
	4	7561	12:03	12:13	12:18	12:23	12:25	0:15	0:07	0:22
	5	228	12:04	12:17	12:18	12:23	12:25	0:14	0:07	0:21
	1	1827	12:05	12:13	12:18	12:23	12:25	0:13	0:07	0:20
	4	13583	12:06	12:15	12:18	12:23	12:25	0:12	0:07	0:19
7	2	1626	12:07	12:13	12:18	12:23	12:25	0:11	0:07	0:18
	1	30128	12:07	12:14	12:18	12:23	12:25	0:11	0:07	0:18
	1	30379	12:11	12:15	12:18	12:23	12:25	0:07	0:07	0:14
	4	61336	12:11	12:14	12:18	12:23	12:25	0:07	0:07	0:14
	6	17	12:12	12:15	12:18	12:23	12:25	0:06	0:07	0:13
	4	6464	12:13	12:17	12:18	12:23	12:25	0:05	0:07	0:12
	4	10464	12:16	12:17	12:18	12:23	12:25	0:02	0:07	0:09
	1	8370	12:17	12:27	12:30	12:35	12:36	0:13	0:06	0:19
	4	30429	12:19	12:28	12:30	12:35	12:36	0:11	0:06	0:17
	4	61457	12:21	12:27	12:30	12:35	12:36	0:09	0:06	0:15
	4	30678	12:21	12:28	12:30	12:35	12:36	0:09	0:06	0:15
	4	30248	12:21	12:27	12:30	12:35	12:36	0:09	0:06	0:15
8	1	2188	12:23	12:26	12:30	12:35	12:36	0:07	0:06	0:13
	2	1085	12:24	12:27	12:30	12:35	12:36	0:06	0:06	0:12
	1	974	12:24	12:27	12:30	12:35	12:36	0:06	0:06	0:12
	1	87	12:25	12:28	12:30	12:35	12:36	0:05	0:06	0:11
	2	258	12:26	12:29	12:30	12:35	12:36	0:04	0:06	0:10
	4	26	12:26	12:28	12:30	12:35	12:36	0:04	0:06	0:10
	1	646	12:27	12:28	12:30	12:35	12:36	0:03	0:06	0:09
	4	5469	12:28	12:29	12:30	12:35	12:36	0:02	0:06	0:08
	2	887	12:28	12:36	12:43	12:48	12:49	0:15	0:06	0:21
	2	1500	12:28	12:37	12:43	12:48	12:49	0:15	0:06	0:21
	4	30149	12:29	12:38	12:43	12:48	12:49	0:14	0:06	0:20
	6	1705	12:29	12:36	12:43	12:48	12:49	0:14	0:06	0:20
	2	1945	12:29	12:39	12:43	12:48	12:49	0:14	0:06	0:20
9	4	3625	12:32	12:39	12:43	12:48	12:49	0:11	0:06	0:17
	4	84270	12:32	12:39	12:43	12:48	12:49	0:11	0:06	0:17
	6	327	12:33	12:39	12:43	12:48	12:49	0:10	0:06	0:16
	4	488	12:33	12:41	12:43	12:48	12:49	0:10	0:06	0:16
	6	7124	12:35	12:39	12:43	12:48	12:49	0:08	0:06	0:14
	2	4194	12:36	12:40	12:43	12:48	12:49	0:07	0:06	0:13
	6	7472	12:38	12:43	12:43	12:48	12:49	0:05	0:06	0:11
	4	15954	12:41	13:00	13:03	13:06	13:07	0:22	0:04	0:26
	6	4243	12:42	12:59	13:03	13:06	13:07	0:21	0:04	0:25
	1	6505	12:43	12:58	13:03	13:06	13:07	0:20	0:04	0:24
	5	66	12:44	12:59	13:03	13:06	13:07	0:19	0:04	0:23
	4	162	12:45	13:01	13:03	13:06	13:07	0:18	0:04	0:22
	4	5028	12:45	13:03	13:03	13:06	13:07	0:18	0:04	0:22
	1	79076	12:47	13:03	13:03	13:06	13:07	0:16	0:04	0:20
10	6	5025	12:47	13:19	13:23	13:29	13:30	0:36	0:07	0:43
	1	14678	12:48	12:59	13:03	13:06	13:07	0:15	0:04	0:19
	1	853999	12:48	12:59	13:03	13:06	13:07	0:15	0:04	0:19
	2	6	12:49	12:59	13:03	13:06	13:07	0:14	0:04	0:18
	1	10419	12:50	13:02	13:03	13:06	13:07	0:13	0:04	0:17
	3	18	12:52	13:02	13:03	13:06	13:07	0:11	0:04	0:15
	4	42	12:54	13:03	13:03	13:06	13:07	0:09	0:04	0:13
							Average	0:08	0:06	0:14

Note:
Survey Duration: 11:00 to 13:00
No of Ferries: 2
No of Crossings: 10

Table 4.1.10 Crossing Time of Each Vehicle (7/22)

Qantara | East to West | Convoy | Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
	4	60023	16:04	16:49	16:50	16:58	16:59	0:46	0:09	0:55
1	1	8269	16:13	16:50	16:50	16:58	16:59	0:37	0:09	0:46
	4	2062	16:14	16:50	16:50	16:58	16:59	0:36	0:09	0:45
	4	30700	16:14	16:49	16:50	16:58	16:59	0:36	0:09	0:45
	1	30402	16:08	17:00	17:01	17:06	17:07	0:53	0:06	0:59
2	6	160058	16:08	17:00	17:01	17:06	17:07	0:53	0:06	0:59
	1	668261	16:44	17:00	17:01	17:06	17:07	0:17	0:06	0:23
	4	5216	16:06	16:52	17:17	17:21	17:22	1:11	0:05	1:16
	1	14577	16:07	16:52	17:17	17:21	17:22	1:10	0:05	1:15
	2	30261	16:10	17:15	17:17	17:21	17:22	1:07	0:05	1:12
	2	4233	16:13	17:16	17:17	17:21	17:22	1:04	0:05	1:09
	4	445	16:13	17:15	17:17	17:21	17:22	1:04	0:05	1:09
	4	5076	16:13	16:51	17:17	17:21	17:22	1:04	0:05	1:09
3	1	661516	16:14	16:52	17:17	17:21	17:22	1:03	0:05	1:08
	1	159858	16:14	16:52	17:17	17:21	17:22	1:03	0:05	1:08
	4	30099	16:14	16:51	17:17	17:21	17:22	1:03	0:05	1:08
	1	4678	16:19	17:15	17:17	17:21	17:22	0:58	0:05	1:03
	1	30207	16:20	17:16	17:17	17:21	17:22	0:57	0:05	1:02
	4	30263	16:29	17:16	17:17	17:21	17:22	0:48	0:05	0:53
	4	5135	16:30	17:15	17:17	17:21	17:22	0:47	0:05	0:52
	1	2278	16:30	17:16	17:17	17:21	17:22	0:47	0:05	0:52
	2	687	16:55	17:16	17:17	17:21	17:22	0:22	0:05	0:27
	2	4071	16:05	17:15	17:16	17:23	17:24	1:11	0:08	1:19
	6	160852	16:11	17:15	17:16	17:23	17:24	1:05	0:08	1:13
4	3	1595	16:11	17:16	17:16	17:23	17:24	1:05	0:08	1:13
	6	158282	16:12	17:15	17:16	17:23	17:24	1:04	0:08	1:12
	2	84429	16:15	17:15	17:16	17:23	17:24	1:01	0:08	1:09
	4	6960	16:25	17:16	17:16	17:23	17:24	0:51	0:08	0:59
	1	2735	16:25	17:17	17:41	17:46	17:47	1:16	0:06	1:22
	5	574	16:25	17:17	17:41	17:46	17:47	1:16	0:06	1:22
	1	338462	16:32	17:35	17:41	17:46	17:47	1:09	0:06	1:15
	4	980	16:48	17:35	17:41	17:46	17:47	0:53	0:06	0:59
5	6	37830	16:52	17:35	17:41	17:46	17:47	0:49	0:06	0:55
	4	4273	16:52	17:41	17:41	17:46	17:47	0:49	0:06	0:55
	2	5	16:53	17:38	17:41	17:46	17:47	0:48	0:06	0:54
	6	30403	16:54	17:35	17:41	17:46	17:47	0:47	0:06	0:53
	1	4376	16:55	17:35	17:41	17:46	17:47	0:46	0:06	0:52
	2	1585	17:04	17:38	17:41	17:46	17:47	0:37	0:06	0:43
	6	4121	16:27	17:36	17:42	17:48	17:49	1:15	0:07	1:22
	4	9312	16:32	17:38	17:42	17:48	17:49	1:10	0:07	1:17
	1	822101	16:33	17:40	17:42	17:48	17:49	1:09	0:07	1:16
	1	2429	16:35	17:39	17:42	17:48	17:49	1:07	0:07	1:14
6	4	74938	16:37	17:40	17:42	17:48	17:49	1:05	0:07	1:12
	2	4071	16:39	17:40	17:42	17:48	17:49	1:03	0:07	1:10
	2	1	16:40	17:40	17:42	17:48	17:49	1:02	0:07	1:09
	2	109	16:42	17:41	17:42	17:48	17:49	1:00	0:07	1:07
	5	1104	16:51	17:41	17:42	17:48	17:49	0:51	0:07	0:58
	2	1507	17:18	17:40	17:42	17:48	17:49	0:24	0:07	0:31
	1	2282	17:04	18:01	18:06	18:10	18:11	1:02	0:05	1:07
	4	79171	17:08	18:02	18:06	18:10	18:11	0:58	0:05	1:03
7	2	1660	17:15	18:04	18:06	18:10	18:11	0:51	0:05	0:56
	4	2061	17:16	18:02	18:06	18:10	18:11	0:50	0:05	0:55

Table 4.1.10 Crossing Time of Each Vehicle (8/22)

	1	31623	16:55	18:01	18:06	18:12	18:14	1:11	0:08	1:19
	6	117588	16:57	18:00	18:06	18:12	18:14	1:09	0:08	1:17
	1	9082	17:00	18:03	18:06	18:12	18:14	1:06	0:08	1:14
	1	1994	17:00	18:03	18:06	18:12	18:14	1:06	0:08	1:14
	1	72007	17:04	18:02	18:06	18:12	18:14	1:02	0:08	1:10
8	2	3718	17:05	18:01	18:06	18:12	18:14	1:01	0:08	1:09
	4	41410	17:06	18:04	18:06	18:12	18:14	1:00	0:08	1:08
	5	27	17:08	18:03	18:06	18:12	18:14	0:58	0:08	1:06
	4	30097	17:08	18:03	18:06	18:12	18:14	0:58	0:08	1:06
	4	7272	17:10	18:02	18:06	18:12	18:14	0:56	0:08	1:04
	2	1633	17:15	18:02	18:06	18:12	18:14	0:51	0:08	0:59
	4	5103	17:17	18:03	18:06	18:12	18:14	0:49	0:08	0:57
	1	2020	17:20	18:02	18:06	18:12	18:14	0:46	0:08	0:54
	1	792	17:19	18:22	18:29	18:35	18:36	1:10	0:07	1:17
	6	52247	17:24	18:22	18:29	18:35	18:36	1:05	0:07	1:12
	1	675787	17:24	18:23	18:29	18:35	18:36	1:05	0:07	1:12
	4	5225	17:29	18:23	18:29	18:35	18:36	1:00	0:07	1:07
	1	40677	17:30	18:23	18:29	18:35	18:36	0:59	0:07	1:06
9	4	8182	17:31	18:22	18:29	18:35	18:36	0:58	0:07	1:05
	3	26337	17:31	18:22	18:29	18:35	18:36	0:58	0:07	1:05
	6	46170	17:33	18:26	18:29	18:35	18:36	0:56	0:07	1:03
	2	3738	17:35	18:25	18:29	18:35	18:36	0:54	0:07	1:01
	1	403050	17:37	18:25	18:29	18:35	18:36	0:52	0:07	0:59
	4	30871	17:39	18:25	18:29	18:35	18:36	0:50	0:07	0:57
	4	120149	17:40	18:24	18:29	18:35	18:36	0:49	0:07	0:56
							Average	0:56	0:06	1:03

Note:
Survey Duration: 16:00 to 18:00
No of Ferries: 2
No of Crossings: 9

Table 4.1.10 Crossing Time of Each Vehicle (9/22)

Ferdan **West to East** **Non Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	7	300917	10:03	10:19	10:20	10:26	10:28	0:17	0:08	0:25
	4	71034	10:11	10:18	10:20	10:26	10:28	0:09	0:08	0:17
2	1	1093	10:15	10:37	10:38	10:42	10:44	0:23	0:06	0:29
3	7	1202	10:14	10:42	10:44	10:46	10:47	0:30	0:03	0:33
	7	210	10:28	10:43	10:44	10:46	10:47	0:16	0:03	0:19
4	7	7387	10:01	10:58	11:00	11:03	11:04	0:59	0:04	1:03
	7	239	10:11	10:57	11:00	11:03	11:04	0:49	0:04	0:53
	7	347	10:41	10:58	11:00	11:03	11:04	0:19	0:04	0:23
	7	2491	10:45	11:00	11:00	11:03	11:04	0:15	0:04	0:19
5	7	1554	10:33	11:04	11:06	11:09	11:10	0:33	0:04	0:37
	7	1515	10:36	11:04	11:06	11:09	11:10	0:30	0:04	0:34
	4	6322	10:55	11:05	11:06	11:09	11:10	0:11	0:04	0:15
	1	3621	10:58	11:04	11:06	11:09	11:10	0:08	0:04	0:12
	6	1398	11:03	11:06	11:06	11:09	11:10	0:03	0:04	0:07
	7	3588	11:03	11:06	11:06	11:09	11:10	0:03	0:04	0:07
6	7	13329	10:52	11:16	11:16	11:20	11:20	0:24	0:04	0:28
	7	1248	11:11	11:16	11:16	11:20	11:20	0:05	0:04	0:09
7	4	12552	11:17	11:25	11:25	11:27	11:28	0:08	0:03	0:11
	7	90055	11:17	11:25	11:25	11:27	11:28	0:08	0:03	0:11
	7	1241	11:21	11:25	11:25	11:27	11:28	0:04	0:03	0:07
8	7	8848	11:28	11:34	11:37	11:45	11:46	0:09	0:09	0:18
	7	90349	11:31	11:34	11:37	11:45	11:46	0:06	0:09	0:15
	6	3553	11:35	11:35	11:37	11:45	11:46	0:02	0:09	0:11
	7	70112	11:36	11:36	11:37	11:45	11:46	0:01	0:09	0:10
9	4	5282	11:40	11:52	11:59	12:03	12:04	0:19	0:05	0:24
	1	785	11:51	11:52	11:59	12:03	12:04	0:08	0:05	0:13
	7	576	11:55	11:56	11:59	12:03	12:04	0:04	0:05	0:09
	7	53744	11:56	11:57	11:59	12:03	12:04	0:03	0:05	0:08
							Average	0:14	0:05	0:19

Note:
Survey Duration: 10:00 to 12:00
No of Ferries: 2
No of Crossings: 9

Table 4.1.10 Crossing Time of Each Vehicle (10/22)

Ferdan **West to East** **Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
	7	12865	15:23	15:32	15:39	15:42	15:43	0:16	0:04	0:20
1	7	12997	15:23	15:32	15:39	15:42	15:43	0:16	0:04	0:20
	7	56388	15:27	15:33	15:39	15:42	15:43	0:12	0:04	0:16
	7	1354	15:31	15:37	15:39	15:42	15:43	0:08	0:04	0:12
2	7	158697	10:25	15:49	15:50	15:56	15:57	5:25	0:07	5:32
	7	55827	15:29	15:49	15:50	15:56	15:57	0:21	0:07	0:28
	7	152422	15:53	16:06	16:08	16:14	16:15	0:15	0:07	0:22
3	3	3748	15:55	16:06	16:08	16:14	16:15	0:13	0:07	0:20
	7	775924	16:01	16:06	16:08	16:14	16:15	0:07	0:07	0:14
	2	8	16:17	16:27	16:28	16:32	16:31	0:11	0:03	0:14
4	7	61463	15:58	16:27	16:28	16:32	16:32	0:30	0:04	0:34
	7	774	15:53	16:28	16:28	16:32	16:32	0:35	0:04	0:39
5	7	11209	16:18	16:29	16:29	16:33	16:34	0:11	0:05	0:16
	4	1199	16:20	16:29	16:29	16:33	16:34	0:09	0:05	0:14
	7	16708	16:24	16:39	16:41	16:44	16:45	0:17	0:04	0:21
	7	56761	16:24	16:39	16:41	16:44	16:45	0:17	0:04	0:21
6	7	328	16:28	16:40	16:41	16:44	16:45	0:13	0:04	0:17
	7	32282	16:36	16:40	16:41	16:44	16:45	0:05	0:04	0:09
	7	31782	16:37	16:40	16:41	16:44	16:45	0:04	0:04	0:08
7	7	15100	16:47	16:54	16:56	16:59	17:00	0:09	0:04	0:13
	4	1548	16:48	16:55	16:56	16:59	17:00	0:08	0:04	0:12
	7	305771	16:55	17:05	17:13	17:17	17:17	0:18	0:04	0:22
	7	77216	17:07	17:12	17:13	17:17	17:17	0:06	0:04	0:10
8	7	302871	17:07	17:09	17:13	17:17	17:17	0:06	0:04	0:10
	7	305749	17:07	17:09	17:13	17:17	17:17	0:06	0:04	0:10
	7	309082	17:07	17:09	17:13	17:17	17:17	0:06	0:04	0:10
	1	1932	17:12	17:12	17:13	17:17	17:17	0:01	0:04	0:05
	7	1714	17:20	17:28	17:39	17:42	17:42	0:19	0:03	0:22
9	7	4895	17:27	17:30	17:39	17:42	17:42	0:12	0:03	0:15
	7	4895	17:27	17:30	17:39	17:42	17:42	0:12	0:03	0:15
							Average	0:15	0:05	0:20

Note:
Survey Duration: 15:30 to 17:30
No of Ferries: 2
No of Crossings: 9

Table 4.1.10 Crossing Time of Each Vehicle (11/22)

Ferdan **East to West** **Non Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a) (e-c)
1	7	1248	10:00	10:13	10:14	10:17	10:17	0:14	0:03	0:17
	7	116339	10:00	10:13	10:14	10:17	10:17	0:14	0:03	0:17
2	7	115	10:17	10:28	10:30	10:34	10:35	0:13	0:05	0:18
	7	935	10:20	10:28	10:30	10:34	10:35	0:10	0:05	0:15
	7	1492	10:24	10:29	10:30	10:34	10:35	0:06	0:05	0:11
	7	307163	10:25	10:29	10:30	10:34	10:35	0:05	0:05	0:10
3	7	542	10:31	10:47	10:49	10:52	10:52	0:18	0:03	0:21
	7	1725	10:40	10:47	10:49	10:52	10:52	0:09	0:03	0:12
4	6	52836	10:46	11:00	11:00	11:03	11:03	0:14	0:03	0:17
5	7	4300	11:00	11:11	11:12	11:15	11:16	0:12	0:04	0:16
	7	40674	11:01	11:11	11:12	11:15	11:16	0:11	0:04	0:15
	6	339	11:04	11:12	11:12	11:15	11:16	0:08	0:04	0:12
6	7	7203	11:10	11:21	11:21	11:24	11:25	0:11	0:04	0:15
	7	57777	11:17	11:21	11:21	11:24	11:25	0:04	0:04	0:08
7	7	60114	11:24	11:30	11:30	11:33	11:33	0:06	0:03	0:09
8	7	60614	11:33	11:46	11:47	11:50	11:51	0:14	0:04	0:18
	4	2037	11:42	11:46	11:47	11:50	11:51	0:05	0:04	0:09
	7	257	11:45	11:46	11:47	11:50	11:51	0:02	0:04	0:06
	1	1840	11:45	11:46	11:47	11:50	11:51	0:02	0:04	0:06
9	1	321	11:52	12:03	12:06	12:11	12:11	0:16	0:03	0:19
	1	1841	11:52	12:03	12:08	12:11	12:11	0:16	0:03	0:19
	1	24805	11:52	12:03	12:08	12:11	12:11	0:16	0:03	0:19
	1	705466	11:52	12:03	12:08	12:11	12:11	0:16	0:03	0:19
							Average	0:10	0:04	0:14

Note:
Survey Duration: 10.00 to 12.00
No of Ferries: 2
No of Crossings: 9

Table 4.1.10 Crossing Time of Each Vehicle (12/22)

Ferdan **East to West** **Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	4	1306	17:01	17:18	17:18	17:23	17:24	0:17	0:06	0:23
2	7	2763	16:07	17:58	17:59	18:10	18:11	1:52	0:12	2:04
	7	6211	16:10	17:58	17:59	18:10	18:11	1:49	0:12	2:01
3	7	53462	15:51	18:14	18:16	18:21	18:22	2:25	0:06	2:31
	7	5933	15:55	18:14	18:16	18:21	18:22	2:21	0:06	2:27
	7	160780	15:56	18:15	18:16	18:21	18:22	2:20	0:06	2:26
	7	10074	16:10	18:16	18:16	18:21	18:22	2:06	0:06	2:12
4	7	53291	16:10	18:20	18:23	18:30	18:32	2:13	0:09	2:22
	7	44083	16:16	18:21	18:23	18:30	18:32	2:07	0:09	2:16
	7	5530	16:28	18:21	18:23	18:30	18:32	1:55	0:09	2:04
	6	23473	16:35	18:21	18:23	18:30	18:32	1:48	0:09	1:57
5	7	50396	16:27	18:45	18:46	18:56	18:57	2:19	0:11	2:30
	7	52984	17:23	18:45	18:46	18:56	18:57	1:23	0:11	1:34
6	7	4001	16:28	18:55	18:58	19:00	19:02	2:30	0:04	2:34
	7	79390	16:48	18:56	18:58	19:00	19:02	2:10	0:04	2:14
	4	4087	17:05	18:56	18:58	19:00	19:02	1:53	0:04	1:57
7	7	4501	16:50	19:04	19:05	19:10	19:11	2:15	0:06	2:21
	7	10837	17:16	19:04	19:05	19:10	19:11	1:49	0:06	1:55
8	7	61462	16:15	19:07	19:10	19:14	19:15	2:55	0:05	3:00
	7	243	17:10	19:07	19:10	19:14	19:15	2:00	0:05	2:05
9	7	46462	17:15	19:15	19:16	19:22	19:23	2:01	0:07	2:08
	7	32464	17:16	19:15	19:16	19:22	19:23	2:00	0:07	2:07
	7	33355	17:25	19:16	19:16	19:22	19:23	1:51	0:07	1:58
							Average	2:06	0:07	2:13

Note:
Survey Duration: 15:00 to 17:00
No of Ferries: 2
No of Crossings: 9

Table 4.1.10 Crossing Time of Each Vehicle (13/22)

No.6 West to East Non Convoy Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
	1	120	10:00	10:03	10:06	10:12	10:14	0:06	0:08	0:14
	4	820	10:01	10:05	10:06	10:12	10:14	0:05	0:08	0:13
1	1	8330	10:02	10:04	10:06	10:12	10:14	0:04	0:08	0:12
	4	90027	10:02	10:03	10:06	10:12	10:14	0:04	0:08	0:12
	8	6009	10:04	10:04	10:06	10:12	10:14	0:02	0:08	0:10
	8	50932	10:04	10:04	10:06	10:12	10:14	0:02	0:08	0:10
	5	22	10:05	10:28	10:34	10:40	10:42	0:29	0:08	0:37
	4	51800	10:06	10:27	10:34	10:40	10:42	0:28	0:08	0:36
	1	11002	10:09	10:27	10:34	10:40	10:42	0:25	0:08	0:33
	2	3517	10:11	10:28	10:34	10:40	10:42	0:23	0:08	0:31
2	1	1191	10:15	10:27	10:34	10:40	10:42	0:19	0:08	0:27
	1	242796	10:16	10:28	10:34	10:40	10:42	0:18	0:08	0:26
	1	9966	10:24	10:28	10:34	10:40	10:42	0:10	0:08	0:18
	1	68	10:25	10:28	10:34	10:40	10:42	0:09	0:08	0:17
	1	8531	10:25	10:28	10:34	10:40	10:42	0:09	0:08	0:17
	3	34485	10:30	10:31	10:34	10:40	10:42	0:04	0:08	0:12
	1	10134	10:32	10:32	10:34	10:40	10:42	0:02	0:08	0:10
	1	4347	10:35	10:53	10:57	11:03	11:04	0:22	0:07	0:29
	4	13999	10:35	10:52	10:57	11:03	11:04	0:22	0:07	0:29
	3	300399	10:36	10:53	10:57	11:03	11:04	0:21	0:07	0:28
	3	315689	10:36	10:53	10:57	11:03	11:04	0:21	0:07	0:28
3	3	315696	10:36	10:54	10:57	11:03	11:04	0:21	0:07	0:28
	1	134327	10:39	10:54	10:57	11:03	11:04	0:18	0:07	0:25
	4	72482	10:45	10:54	10:57	11:03	11:04	0:12	0:07	0:19
	1	103582	10:45	10:53	10:57	11:03	11:04	0:12	0:07	0:19
	1	139092	10:45	10:53	10:57	11:03	11:04	0:12	0:07	0:19
	4	14795	10:46	10:56	10:57	11:03	11:04	0:11	0:07	0:18
	4	4217	10:47	11:12	11:26	11:35	11:36	0:39	0:10	0:49
	4	270	10:50	11:12	11:26	11:35	11:36	0:36	0:10	0:46
	1	670495	10:50	11:12	11:26	11:35	11:36	0:36	0:10	0:46
	4	6509	10:54	11:12	11:26	11:35	11:36	0:32	0:10	0:42
	1	37	10:55	11:12	11:26	11:35	11:36	0:31	0:10	0:41
4	4	2740	11:00	11:13	11:26	11:35	11:36	0:26	0:10	0:36
	1	1937	11:03	11:13	11:26	11:35	11:36	0:23	0:10	0:33
	1	113404	11:03	11:13	11:26	11:35	11:36	0:23	0:10	0:33
	1	717021	11:09	11:13	11:26	11:35	11:36	0:17	0:10	0:27
	1	1381	11:12	11:13	11:26	11:35	11:36	0:14	0:10	0:24
	1	119063	11:12	11:13	11:26	11:35	11:36	0:14	0:10	0:24
	1	3879	11:15	11:50	11:57	12:04	12:05	0:42	0:08	0:50
	2	61455	11:20	11:50	11:57	12:04	12:05	0:37	0:08	0:45
	1	7881	11:23	11:50	11:57	12:04	12:05	0:34	0:08	0:42
	4	2460	11:25	11:52	11:57	12:04	12:05	0:32	0:08	0:40
5	1	779	11:26	11:53	11:57	12:04	12:05	0:31	0:08	0:39
	1	8235	11:28	11:52	11:57	12:04	12:05	0:29	0:08	0:37
	4	56739	11:28	11:53	11:57	12:04	12:05	0:29	0:08	0:37
	5	717	11:32	11:51	11:57	12:04	12:05	0:25	0:08	0:33
	4	6846	11:42	11:54	11:57	12:04	12:05	0:15	0:08	0:23
	1	7067	11:42	11:55	11:57	12:04	12:05	0:15	0:08	0:23
	1	2355	11:43	11:54	11:57	12:04	12:05	0:14	0:08	0:22
							Average	0:19	0:08	0:27

Note:
Survey Duration: 10.00 to 12.00
No of Ferries: 1
No of Crossings: 5

Table 4.1.10 Crossing Time of Each Vehicle (14/22)

No.6 West to East Convoy Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	2	4100	15:07	15:20	15:28	15:35	15:36	0:21	0:08	0:29
	4	81110	15:19	15:20	15:28	15:35	15:36	0:09	0:08	0:17
	1	4489	15:26	15:27	15:28	15:35	15:36	0:02	0:08	0:10
2	1	3869	15:47	15:52	16:04	16:09	16:10	0:17	0:06	0:23
	1	15291	15:54	15:54	16:04	16:09	16:10	0:10	0:06	0:16
	6	3369	16:03	16:03	16:04	16:09	16:10	0:01	0:06	0:07
3	4	52832	16:09	16:19	16:26	16:31	16:32	0:17	0:06	0:23
	4	62	16:12	16:19	16:26	16:31	16:32	0:14	0:06	0:20
	4	60072	16:17	16:20	16:26	16:31	16:32	0:09	0:06	0:15
	2	428	16:25	16:26	16:26	16:31	16:32	0:01	0:06	0:07
4	1	8277	16:35	16:45	16:48	16:54	16:55	0:13	0:07	0:20
	4	76	16:36	16:45	16:48	16:54	16:55	0:12	0:07	0:19
	4	416	16:40	16:46	16:48	16:54	16:55	0:08	0:07	0:15
	4	1257	16:40	16:45	16:48	16:54	16:55	0:08	0:07	0:15
	4	7014	16:47	16:48	16:48	16:54	16:55	0:01	0:07	0:08
	4	61061	16:47	16:48	16:48	16:54	16:55	0:01	0:07	0:08
							Average	0:09	0:06	0:15

Note:
Survey Duration: 15:00 to 17:00
No of Ferries: 1
No of Crossings: 4

Table 4.1.10 Crossing Time of Each Vehicle (15/22)

No.6 East to West Non Convoy Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	4	119872	10:01	10:14	10:19	10:25	10:26	0:18	0:07	0:25
	1	1937	10:03	10:15	10:19	10:25	10:26	0:16	0:07	0:23
	6	43100	10:07	10:15	10:19	10:25	10:26	0:12	0:07	0:19
	2	4770	10:11	10:16	10:19	10:25	10:26	0:08	0:07	0:15
2	4	31148	10:18	10:42	10:46	10:52	10:52	0:28	0:06	0:34
	6	57584	10:38	10:42	10:46	10:52	10:52	0:08	0:06	0:14
	4	5261	10:39	10:43	10:46	10:52	10:52	0:07	0:06	0:13
	4	90713	10:42	10:43	10:46	10:52	10:52	0:04	0:06	0:10
	4	56739	10:43	10:44	10:46	10:52	10:52	0:03	0:06	0:09
3	2	1239	10:49	11:05	11:07	11:12	11:12	0:18	0:05	0:23
4	4	72482	11:22	11:40	11:43	11:48	11:50	0:21	0:07	0:28
	1	8330	11:24	11:39	11:43	11:48	11:50	0:19	0:07	0:26
	5	428326	11:24	11:40	11:43	11:48	11:50	0:19	0:07	0:26
	5	428808	11:24	11:42	11:43	11:48	11:50	0:19	0:07	0:26
	2	2080	11:29	11:30	11:43	11:48	11:50	0:14	0:07	0:21
	4	939	11:36	11:41	11:43	11:48	11:50	0:07	0:07	0:14
5	2	3170	11:40	12:06	12:09	12:15	12:16	0:29	0:07	0:36
	3	90027	11:42	12:06	12:09	12:15	12:16	0:27	0:07	0:34
	3	936	11:44	12:06	12:09	12:15	12:16	0:25	0:07	0:32
	4	12027	11:44	12:07	12:09	12:15	12:16	0:25	0:07	0:32
	4	2046	11:58	12:07	12:09	12:15	12:16	0:11	0:07	0:18
							Average	0:16	0.06	0:22

Note:
Survey Duration: 10.00 to 12:00
No of Ferries: 1
No of Crossings: 5

Table 4.1.10 Crossing Time of Each Vehicle (16/22)

No.6 East to West Convoy Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	1	7067	15:05	15:11	15:13	15:19	15:20	0:08	0:07	0:15
	4	76	15:09	15:38	15:43	15:51	15:52	0:34	0:09	0:43
	1	177957	15:10	15:38	15:43	15:51	15:52	0:33	0:09	0:42
2	4	60072	15:11	15:42	15:43	15:51	15:52	0:32	0:09	0:41
	2	3951	15:12	15:42	15:43	15:51	15:52	0:31	0:09	0:40
	4	2740	15:13	15:42	15:43	15:51	15:52	0:30	0:09	0:39
	3	25878	15:23	15:41	15:43	15:51	15:52	0:20	0:09	0:29
	4	1527	15:14	16:11	16:16	16:44	16:45	1:02	0:29	1:31
	3	403694	15:15	16:12	16:16	16:44	16:45	1:01	0:29	1:30
	4	44498	15:16	16:12	16:16	16:44	16:45	1:00	0:29	1:29
	4	5207	15:17	16:13	16:16	16:44	16:45	0:59	0:29	1:28
3	6	3886	15:19	16:13	16:16	16:44	16:45	0:57	0:29	1:26
	2	401	15:20	16:14	16:16	16:44	16:45	0:56	0:29	1:25
	1	242796	15:22	16:15	16:16	16:44	16:45	0:54	0:29	1:23
	4	1422	15:25	16:15	16:16	16:44	16:45	0:51	0:29	1:20
	1	10134	15:26	16:15	16:16	16:44	16:45	0:50	0:29	1:19
	7	559	15:28	16:15	16:16	16:44	16:45	0:48	0:29	1:17
	1	111334	15:30	16:33	16:39	16:44	16:45	1:09	0:06	1:15
	1	1937	15:35	16:33	16:39	16:44	16:45	1:04	0:06	1:10
	4	44577	15:36	16:33	16:39	16:44	16:45	1:03	0:06	1:09
	2	1398	15:37	16:33	16:39	16:44	16:45	1:02	0:06	1:08
	4	51216	15:38	16:33	16:39	16:44	16:45	1:01	0:06	1:07
4	1	1877	15:39	16:34	16:39	16:44	16:45	1:00	0:06	1:06
	2	2309	15:39	16:34	16:39	16:44	16:45	1:00	0:06	1:06
	4	160109	15:40	16:35	16:39	16:44	16:45	0:59	0:06	1:05
	6	15864	15:41	16:34	16:39	16:44	16:45	0:58	0:06	1:04
	4	3237	15:42	16:35	16:39	16:44	16:45	0:57	0:06	1:03
	1	327979	16:34	16:34	16:39	16:44	16:45	0:05	0:06	0:11
	1	860440	15:43	16:54	17:01	17:07	17:08	1:18	0:07	1:25
	1	1556	15:46	16:54	17:01	17:07	17:08	1:15	0:07	1:22
	1	9070	16:05	16:54	17:01	17:07	17:08	0:56	0:07	1:03
5	1	6779	16:09	16:54	17:01	17:07	17:08	0:52	0:07	0:59
	4	6422	16:14	16:54	17:01	17:07	17:08	0:47	0:07	0:54
	4	3346	16:16	16:55	17:01	17:07	17:08	0:45	0:07	0:52
	2	4631	16:18	16:55	17:01	17:07	17:08	0:43	0:07	0:50
	1	7078	16:19	16:55	17:01	17:07	17:08	0:42	0:07	0:49
	4	2345	16:21	16:56	17:01	17:07	17:08	0:40	0:07	0:47
	4	2870	16:24	16:56	17:01	17:07	17:08	0:37	0:07	0:44
							Average	0:49	0:12	1:02

Note:
Survey Duration: 15:00 to 17:00
No of Ferries: 1
No of Crossings: 5

Table 4.1.10 Crossing Time of Each Vehicle (17/22)

Srabulom **West to East** **Non Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
	4	90167	16:07	16:14	16:16	16:21	16:22	0:09	0:06	0:15
	4	90561	16:11	16:14	16:16	16:21	16:22	0:05	0:06	0:11
1	4	30216	16:13	16:14	16:16	16:21	16:22	0:03	0:06	0:09
	4	4859	16:14	16:15	16:16	16:21	16:22	0:02	0:06	0:08
	4	90672	16:15	16:15	16:16	16:21	16:22	0:01	0:06	0:07
	4	90441	16:18	16:22	16:23	16:27	16:28	0:05	0:05	0:10
2	4	11895	16:20	16:22	16:23	16:27	16:28	0:03	0:05	0:08
	4	51853	16:21	16:22	16:23	16:27	16:28	0:02	0:05	0:07
	4	90448	16:30	16:31	16:35	16:41	16:49	0:05	0:14	0:19
3	4	90189	16:31	16:32	16:35	16:41	16:49	0:04	0:14	0:18
	7	2483	16:34	16:34	16:35	16:41	16:49	0:01	0:14	0:15
	4	60254	16:46	16:50	17:01	17:04	17:05	0:15	0:04	0:19
	7	1728	16:48	16:50	17:01	17:04	17:05	0:13	0:04	0:17
4	4	1113	16:52	16:52	17:01	17:04	17:05	0:09	0:04	0:13
	4	5297	16:55	16:56	17:01	17:04	17:05	0:06	0:04	0:10
	7	47915	16:59	16:59	17:01	17:04	17:05	0:02	0:04	0:06
	2	5203	17:02	17:17	17:29	17:34	17:36	0:27	0:07	0:34
	4	90739	17:04	17:17	17:29	17:34	17:36	0:25	0:07	0:32
	4	41106	17:05	17:18	17:29	17:34	17:36	0:24	0:07	0:31
5	2	60468	17:07	17:18	17:29	17:34	17:36	0:22	0:07	0:29
	4	90804	17:15	17:18	17:29	17:34	17:36	0:14	0:07	0:21
	7	2565	17:19	17:21	17:29	17:34	17:36	0:10	0:07	0:17
	4	90810	17:19	17:20	17:29	17:34	17:36	0:10	0:07	0:17
	4	6322	17:25	17:29	17:29	17:34	17:36	0:04	0:07	0:11
	6	28565	17:33	17:45	17:47	17:57	17:57	0:14	0:10	0:24
	6	90128	17:38	17:45	17:47	17:57	17:57	0:09	0:10	0:19
6	7	311941	17:38	17:45	17:47	17:57	17:57	0:09	0:10	0:19
	4	40856	17:43	17:46	17:47	17:57	17:57	0:04	0:10	0:14
	4	484	17:45	17:46	17:47	17:57	17:57	0:02	0:10	0:12
	4	90020	17:51	18:04	18:05	18:11	18:12	0:14	0:07	0:21
7	4	90263	17:53	18:04	18:05	18:11	18:12	0:12	0:07	0:19
	4	30903	17:55	18:04	18:05	18:11	18:12	0:10	0:07	0:17
							Average	0:09	0:07	0:16

Note:
Survey Duration: 16:00 to 18:00
No of Ferries: 2
No of Crossings: 7

Table 4.1.10 Crossing Time of Each Vehicle (18/22)

Srabulom **West to East** **Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
	7	3126	11:03	11:11	11:13	11:18	11:20	0:10	0:07	0:17
	1	187778	11:04	11:11	11:13	11:18	11:20	0:09	0:07	0:16
1	1	759875	11:10	11:11	11:13	11:18	11:20	0:03	0:07	0:10
	4	90189	11:11	11:12	11:13	11:18	11:20	0:02	0:07	0:09
	1	565418	11:11	11:13	11:13	11:18	11:20	0:02	0:07	0:09
	6	300712	11:11	11:31	11:38	11:44	11:46	0:27	0:08	0:35
	6	1410	11:14	11:31	11:38	11:44	11:46	0:24	0:08	0:32
2	1	4000	11:15	11:32	11:38	11:44	11:46	0:23	0:08	0:31
	4	90581	11:15	11:33	11:38	11:44	11:46	0:23	0:08	0:31
	1	10198	11:22	11:31	11:38	11:44	11:46	0:16	0:08	0:24
	2	30286	11:22	11:33	11:38	11:44	11:46	0:16	0:08	0:24
	2	2459	11:23	11:34	11:38	11:44	11:46	0:15	0:08	0:23
	1	860440	11:24	11:34	11:38	11:44	11:46	0:14	0:08	0:22
	7	39647	11:23	11:58	12:00	12:07	12:08	0:37	0:08	0:45
	4	30012	11:24	11:58	12:00	12:07	12:08	0:36	0:08	0:44
	4	7256	11:26	12:00	12:00	12:07	12:08	0:34	0:08	0:42
	4	10541	11:30	11:58	12:00	12:07	12:08	0:30	0:08	0:38
3	4	90025	11:41	11:58	12:00	12:07	12:08	0:19	0:08	0:27
	4	90043	11:44	12:00	12:00	12:07	12:08	0:16	0:08	0:24
	1	315247	11:45	11:59	12:00	12:07	12:08	0:15	0:08	0:23
	4	1527	11:48	11:59	12:00	12:07	12:08	0:12	0:08	0:20
	4	90354	11:50	12:00	12:00	12:07	12:08	0:10	0:08	0:18
	8	5699	11:53	11:59	12:00	12:07	12:08	0:07	0:08	0:15
	7	90157	11:35	12:17	12:21	12:25	12:26	0:46	0:05	0:51
	4	8148	11:55	12:19	12:21	12:25	12:26	0:26	0:05	0:31
	4	4551	11:56	12:19	12:21	12:25	12:26	0:25	0:05	0:30
4	4	5590	12:06	12:19	12:21	12:25	12:26	0:15	0:05	0:20
	4	1371	12:12	12:19	12:21	12:25	12:26	0:09	0:05	0:14
	1	2218	12:19	12:20	12:21	12:25	12:26	0:02	0:05	0:07
	4	7067	12:20	12:20	12:21	12:25	12:26	0:01	0:05	0:06
	4	90441	12:20	12:37	12:40	12:44	12:45	0:20	0:05	0:25
	7	90128	12:20	12:36	12:40	12:44	12:45	0:20	0:05	0:25
	1	190285	12:21	12:36	12:40	12:44	12:45	0:19	0:05	0:24
5	4	90263	12:25	12:37	12:40	12:44	12:45	0:15	0:05	0:20
	4	3094	12:32	12:38	12:40	12:44	12:45	0:08	0:05	0:13
	2	1267	12:37	12:37	12:40	12:44	12:45	0:03	0:05	0:08
	1	2169	12:37	12:39	12:40	12:44	12:45	0:03	0:05	0:08
	4	200	12:39	12:39	12:40	12:44	12:45	0:01	0:05	0:06
	7	90360	12:30	12:55	12:56	13:01	13:03	0:26	0:07	0:33
	4	2488	12:40	12:55	12:56	13:01	13:03	0:16	0:07	0:23
6	4	1964	12:46	12:55	12:56	13:01	13:03	0:10	0:07	0:17
	4	7145	12:46	12:55	12:56	13:01	13:03	0:10	0:07	0:17
	7	30477	12:54	12:54	12:56	13:01	13:03	0:02	0:07	0:09
	4	90739	12:55	12:56	12:56	13:01	13:03	0:01	0:07	0:08
	4	90561	12:56	12:56	12:56	13:01	13:03	0:01	0:07	0:08
							Average	0:15	0:06	0:21

Note:
Survey Duration: 11:00 to 13:00
No of Ferries: 2
No of Crossings: 6

Table 4.1.10 Crossing Time of Each Vehicle (19/22)

Srabulom **East to West** **Non Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (e-a) '(e-c)
1	7	1728	16:00	16:23	16:26	16:30	16:31	0:26	0:05	0:31
	4	90413	16:01	16:24	16:26	16:30	16:31	0:25	0:05	0:30
	4	3065	16:13	16:25	16:26	16:30	16:31	0:13	0:05	0:18
	4	1113	16:18	16:25	16:26	16:30	16:31	0:08	0:05	0:13
2	4	40856	16:19	16:29	16:30	16:37	16:38	0:11	0:08	0:19
	7	3651	16:24	16:29	16:30	16:37	16:38	0:06	0:08	0:14
	4	5297	16:25	16:29	16:30	16:37	16:38	0:05	0:08	0:13
3	1	766582	16:25	16:40	16:44	16:47	16:49	0:19	0:05	0:24
	4	1964	16:28	16:41	16:44	16:47	16:49	0:16	0:05	0:21
	4	6383	16:31	16:41	16:44	16:47	16:49	0:13	0:05	0:18
	4	90810	16:32	16:41	16:44	16:47	16:49	0:12	0:05	0:17
	1	30796	16:33	16:42	16:44	16:47	16:49	0:11	0:05	0:16
	7	90140	16:37	16:41	16:44	16:47	16:49	0:07	0:05	0:12
	4	1365	16:43	16:43	16:44	16:47	16:49	0:01	0:05	0:06
	4	90561	16:44	16:44	16:44	16:47	16:49	0:00	0:05	0:05
4	4	90692	16:45	16:48	16:55	17:01	17:01	0:10	0:06	0:15
	4	3838	16:46	16:49	16:55	17:01	17:01	0:09	0:06	0:15
	4	90547	16:48	16:49	16:55	17:01	17:01	0:07	0:06	0:13
	4	6200	16:49	16:50	16:55	17:01	17:01	0:06	0:06	0:12
	4	90708	16:49	16:49	16:55	17:01	17:01	0:06	0:06	0:12
	4	90813	16:52	16:53	16:55	17:01	17:01	0:03	0:06	0:09
5	4	90026	16:56	17:06	17:09	17:14	17:16	0:13	0:07	0:20
	4	90018	16:57	17:07	17:09	17:14	17:16	0:12	0:07	0:19
	7	300712	17:01	17:06	17:09	17:14	17:16	0:08	0:07	0:15
	4	7067	17:03	17:07	17:09	17:14	17:16	0:06	0:07	0:13
6	4	71099	17:04	17:34	17:37	17:42	17:43	0:33	0:06	0:39
	4	44432	17:10	17:34	17:37	17:42	17:43	0:27	0:06	0:33
	6	7437	17:11	17:35	17:37	17:42	17:43	0:26	0:06	0:32
	7	43442	17:12	17:34	17:37	17:42	17:43	0:25	0:06	0:31
	4	90441	17:12	17:35	17:37	17:42	17:43	0:25	0:06	0:31
	4	90477	17:13	17:36	17:37	17:42	17:43	0:24	0:06	0:30
7	7	1259	17:13	17:51	17:57	18:01	18:02	0:44	0:05	0:49
	4	2699	17:25	17:54	17:57	18:01	18:02	0:32	0:05	0:37
	4	90189	17:26	17:54	17:57	18:01	18:02	0:31	0:05	0:36
	4	2431	17:27	17:57	17:57	18:01	18:02	0:30	0:05	0:35
8	7	90802	17:18	18:12	18:14	18:20	18:21	0:56	0:07	1:03
	4	90467	17:30	18:13	18:14	18:20	18:21	0:44	0:07	0:51
	4	90672	17:30	18:13	18:14	18:20	18:21	0:44	0:07	0:51
	4	90208	17:32	18:13	18:14	18:20	18:21	0:42	0:07	0:49
	4	90613	17:35	18:13	18:14	18:20	18:21	0:39	0:07	0:46
	4	2238	17:44	18:13	18:14	18:20	18:21	0:30	0:07	0:37
	4	90376	17:49	18:14	18:14	18:20	18:21	0:25	0:07	0:32
	4	4257	17:50	18:14	18:14	18:20	18:21	0:24	0:07	0:31
							Average	0:19	0:06	0:25

Note:
Survey Duration: 16:00 to 18:00
No of Ferries: 2
No of Crossings: 8

Table 4.1.10 Crossing Time of Each Vehicle (20/22)

Srabulom East to West Convoy Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (c-c)	Vehicle Crossing Time (c-a)+(c-c)
1	3	802787	11:00	11:01	11:04	11:08	11:10	0:04	0:06	0:10
	4	4827	11:03	11:04	11:04	11:08	11:10	0:01	0:06	0:07
2	4	11895	11:01	11:19	11:23	11:29	11:30	0:19	0:07	0:26
	4	2986	11:10	11:20	11:23	11:29	11:30	0:13	0:07	0:20
	4	4114	11:11	11:20	11:23	11:29	11:30	0:12	0:07	0:19
	4	203	11:12	11:21	11:23	11:29	11:30	0:11	0:07	0:18
	3	236	11:14	11:19	11:23	11:29	11:30	0:09	0:07	0:16
3	7	75630	11:05	11:46	11:49	11:57	11:57	0:44	0:08	0:52
	7	90735	11:26	11:46	11:49	11:57	11:57	0:23	0:08	0:31
	4	416685	11:44	11:46	11:49	11:57	11:57	0:05	0:08	0:13
4	1	744540	11:50	12:09	12:11	12:16	12:17	0:21	0:06	0:27
	4	90189	11:51	12:10	12:11	12:16	12:17	0:20	0:06	0:26
	4	6757	11:52	12:11	12:11	12:16	12:17	0:19	0:06	0:25
	1	627879	11:52	12:11	12:11	12:16	12:17	0:19	0:06	0:25
	6	1410	12:05	12:09	12:11	12:16	12:17	0:06	0:06	0:12
5	4	6200	11:53	12:28	12:29	12:34	12:35	0:36	0:06	0:42
	4	90547	11:53	12:28	12:29	12:34	12:35	0:36	0:06	0:42
	4	2699	11:54	12:28	12:29	12:34	12:35	0:35	0:06	0:41
	3	127749	11:56	12:28	12:29	12:34	12:35	0:33	0:06	0:39
	4	90078	11:59	12:29	12:29	12:34	12:35	0:30	0:06	0:36
	4	314876	12:09	12:27	12:29	12:34	12:35	0:20	0:06	0:26
	4	314899	12:09	12:27	12:29	12:34	12:35	0:20	0:06	0:26
	4	314907	12:09	12:27	12:29	12:34	12:35	0:20	0:06	0:26
	1	3085	12:22	12:26	12:29	12:34	12:35	0:07	0:06	0:13
6	4	314874	12:09	12:45	12:47	12:52	12:54	0:38	0:07	0:45
	4	314878	12:09	12:45	12:47	12:52	12:54	0:38	0:07	0:45
	4	314910	12:09	12:45	12:47	12:52	12:54	0:38	0:07	0:45
	4	312617	12:10	12:45	12:47	12:52	12:54	0:37	0:07	0:44
	1	158701	12:11	12:46	12:47	12:52	12:54	0:36	0:07	0:43
	4	159523	12:15	12:46	12:47	12:52	12:54	0:32	0:07	0:39
	1	9132	12:29	12:46	12:47	12:52	12:54	0:18	0:07	0:25
	4	13993	12:31	12:46	12:47	12:52	12:54	0:16	0:07	0:23
	4	1715	12:36	12:47	12:47	12:52	12:54	0:11	0:07	0:18
7	7	312665	12:09	13:03	13:05	13:10	13:12	0:56	0:07	1:03
	4	312642	12:10	13:04	13:05	13:10	13:12	0:55	0:07	1:02
	7	312660	12:10	13:03	13:05	13:10	13:12	0:55	0:07	1:02
	4	314906	12:10	13:03	13:05	13:10	13:12	0:55	0:07	1:02
	4	3929	12:37	13:04	13:05	13:10	13:12	0:28	0:07	0:35
	7	2483	12:55	13:04	13:05	13:10	13:12	0:10	0:07	0:17
							Average	0:25	0:06	0:31

Note:
Survey Duration: 11:00 to 13:00
No of Ferries: 2
No of Crossings: 7

Table 4.1.10 Crossing Time of Each Vehicle (21/22)

Shatt **West to East** **Non Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	7	2907	11:30	11:38	11:39	11:45	11:46	0:09	0:07	0:16
	7	56	11:32	11:55	11:56	12:01	12:02	0:24	0:06	0:30
2	7	11093	11:44	11:56	11:56	12:01	12:02	0:12	0:06	0:18
	7	33290	11:52	11:55	11:56	12:01	12:02	0:04	0:06	0:10
	7	51355	11:55	12:10	12:12	12:17	12:18	0:17	0:06	0:23
	7	28572	11:57	12:11	12:12	12:17	12:18	0:15	0:06	0:21
3	7	134	11:59	12:10	12:12	12:17	12:18	0:13	0:06	0:19
	4	4413	12:01	12:12	12:12	12:17	12:18	0:11	0:06	0:17
	6	506	12:04	12:11	12:12	12:17	12:18	0:08	0:06	0:14
	1	761	12:16	12:26	12:29	12:33	12:34	0:13	0:05	0:18
	4	101779	12:16	12:27	12:29	12:33	12:34	0:13	0:05	0:18
4	7	3642	12:18	12:27	12:29	12:33	12:34	0:11	0:05	0:16
	1	358978	12:21	12:28	12:29	12:33	12:34	0:08	0:05	0:13
	7	355404	12:22	12:27	12:29	12:33	12:34	0:07	0:05	0:12
	7	421938	11:58	12:41	12:43	12:48	12:49	0:45	0:06	0:51
5	7	10012	12:24	12:40	12:43	12:48	12:49	0:19	0:06	0:25
	4	1884	12:36	12:42	12:43	12:48	12:49	0:07	0:06	0:13
	7	37959	12:36	12:41	12:43	12:48	12:49	0:07	0:06	0:13
	7	421945	11:58	12:57	12:58	13:04	13:04	1:00	0:06	1:06
6	7	2825	12:26	12:57	12:58	13:04	13:04	0:32	0:06	0:38
	7	359280	12:49	12:58	12:58	13:04	13:04	0:09	0:06	0:15
	7	407	12:53	12:58	12:58	13:04	13:04	0:05	0:06	0:11
	7	556	12:37	13:11	13:12	13:18	13:19	0:35	0:07	0:42
7	7	68158	12:54	13:12	13:12	13:18	13:19	0:18	0:07	0:25
	7	751	13:06	13:11	13:12	13:18	13:19	0:06	0:07	0:13
	7	1370	13:00	13:32	13:34	13:40	13:41	0:34	0:07	0:41
	7	43233	13:13	13:33	13:34	13:40	13:41	0:21	0:07	0:28
8	7	13217	13:16	13:33	13:34	13:40	13:41	0:18	0:07	0:25
	1	350048	13:21	13:33	13:34	13:40	13:41	0:13	0:07	0:20
	7	358904	13:25	13:32	13:34	13:40	13:41	0:09	0:07	0:16
							Average	0:16	0:06	0:22

Note:
Survey Duration: 11:30 to 13:30
No of Ferries: 2
No of Crossings: 7

Shatt **West to East** **Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	7	648	8:42	8:44	8:49	8:53	8:54	0:07	0:05	0:12
2	7	52472	8:46	9:07	9:08	9:14	9:14	0:22	0:06	0:28
	7	359285	9:10	9:21	9:25	9:29	9:30	0:15	0:05	0:20
3	7	294	9:20	9:21	9:25	9:29	9:30	0:05	0:05	0:10
	7	3563	9:24	9:24	9:25	9:29	9:30	0:01	0:05	0:06
	7	31730	9:28	9:42	9:50	9:54	9:55	0:22	0:05	0:27
4	7	1771	9:36	9:43	9:50	9:54	9:55	0:14	0:05	0:19
	7	760	9:38	9:44	9:50	9:54	9:55	0:12	0:05	0:17
5	7	8825	10:00	10:09	10:10	10:15	10:16	0:10	0:06	0:16
	7	17277	10:09	10:09	10:10	10:15	10:16	0:01	0:06	0:07
	7	355426	10:16	10:27	10:30	10:36	10:40	0:14	0:10	0:24
6	7	17733	10:17	10:26	10:30	10:36	10:40	0:13	0:10	0:23
	7	30858	10:24	10:25	10:30	10:36	10:40	0:06	0:10	0:16
							Average	0:10	0:06	0:17

Note:
Survey Duration: 8:40 to 10:40
No of Ferries: 1
No of Crossings: 6

Table 4.1.10 Crossing Time of Each Vehicle (22/22)

Shatt **East to West** **Non Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	7	153343	11:34	11:47	11:49	11:53	11:54	0:15	0:05	0:20
	7	14908	11:40	11:47	11:49	11:53	11:54	0:09	0:05	0:14
2	7	20103	11:51	12:02	12:03	12:08	12:09	0:12	0:06	0:18
	3	665	11:55	12:03	12:03	12:08	12:09	0:08	0:06	0:14
3	7	13153	12:07	12:19	12:20	12:25	12:25	0:13	0:05	0:18
	7	31226	12:17	12:18	12:20	12:25	12:25	0:03	0:05	0:08
4	4	73834	12:25	12:35	12:35	12:40	12:40	0:10	0:05	0:15
5	7	11265	12:44	12:50	12:51	12:56	12:56	0:07	0:05	0:12
	7	17869	12:47	12:51	12:51	12:56	12:56	0:04	0:05	0:09
	7	506	13:02	13:05	13:06	13:10	13:11	0:04	0:05	0:09
6	7	551	13:02	13:05	13:06	13:10	13:11	0:04	0:05	0:09
	7	12078	13:03	13:04	13:06	13:10	13:11	0:03	0:05	0:08
	7	742	13:10	13:20	13:25	13:30	13:32	0:15	0:07	0:22
7	7	6288	13:10	13:20	13:25	13:30	13:32	0:15	0:07	0:22
	7	46003	13:13	13:22	13:25	13:30	13:32	0:12	0:07	0:19
	7	1393	13:17	13:20	13:25	13:30	13:32	0:08	0:07	0:15
	7	156628	13:17	13:21	13:25	13:30	13:32	0:08	0:07	0:15
							Average	0:08	0:05	0:14

Note:
Survey Duration: 11:30 to 13:30
No of Ferries: 2
No of Crossings: 7

East to West **Convoy** Workday

Ferry Crossing No	Vehicle Type	Plate No	Arrival Time a	Boarding Time b	Departure Time c	Arrival Time d	Leaving Time e	Vehicle Waiting Time (c-a)	Ferry Crossing Time (e-c)	Vehicle Crossing Time (c-a)+(e-c)
1	7	12	9:02	9:14	9:15	9:19	9:20	0:13	0:05	0:18
2	4	4432	9:17	9:31	9:36	9:40	9:41	0:19	0:05	0:24
	7	33290	9:28	9:31	9:36	9:40	9:41	0:08	0:05	0:13
3	7	16715	9:28	9:57	10:02	10:06	10:08	0:34	0:06	0:40
4	7	377	9:41	10:17	10:19	10:24	10:25	0:38	0:06	0:44
	7	407	9:56	10:18	10:18	10:24	10:25	0:23	0:06	0:29
5	7	23967	10:25	10:41	10:42	10:47	10:48	0:17	0:06	0:23
	4	3839	10:30	10:42	10:42	10:47	10:48	0:12	0:06	0:18
							Average	0:20	0:05	0:26

Note:
Survey Duration: 8:40 to 10:40
No of Ferries: 1
No of Crossings: 5

Table 4.1.11 Average Crossing Time of All the Vehicle (by Direction, by Ferry Station)

Unit: minuets

Station	Direction	Time	Average vehicle waiting time	Average ferry crossing time	Average vehicle crossing time
Qantara	W to E	Non convoy	11'	6'	17'
		Convoy	15'	7'	22'
	E to W	Non convoy	8'	6'	14'
		Convoy	57'	7'	64'
Ferdan	W to E	Non convoy	15'	5'	20'
		Convoy	16'	5'	21'
	E to W	Non convoy	10'	4'	14'
		Convoy	125'	7'	132'
No.6	W to E	Non convoy	19'	8'	27'
		Convoy	9'	7'	16'
	E to W	Non convoy	16'	6'	22'
		Convoy	50'	13'	63'
Srabuiom	W to E	Non convoy	9'	7'	16'
		Convoy	15'	6'	21'
	E to W	Non convoy	19'	6'	25'
		Convoy	25'	6'	31'
Shatt	W to E	Non convoy	16'	6'	22'
		Convoy	12'	6'	18'
	E to W	Non convoy	12'	6'	14'
		Convoy	20'	6'	26'

A 4.2 Traffic Projection

This appendix prepared the following contents to supplement Chapter 4 Traffic Demand Projection in the Draft Final Report.

- Explanation and some key issues about OD matrices used in this study.
- Explanation about road network data used traffic assignment in this study

A 4.2.1 OD Matrices

(1) General

The following kinds of OD matrices were built up in this study to estimate the traffic volume according to the various cases.

Table 4.2.1 Kinds of OD Matrices

No.	S. Framework	Kinds	Code No.
1	1995	1995 OD	
2	Case 1	2002 OD	
3		2007 OD	
4		2017 OD	
5	Case 2	2002 OD	
6		2007 OD	
7		2017 OD	
8	Revised Case 3	2002 OD	
9		2007 OD	
10		2017 OD	

Note: :All OD matrices are compiled by type.
(Passenger car, Taxi, Bus, Truck and Total)

(2) Characteristics of the OD matrices

- 1995 OD matrices were made up by revising the 1992 OD matrices compiled by NRTS which has been implemented by JICA in 1992 and the results of the traffic OD survey are taken advantage to finalize this OD matrices. The 30 zoning system is applied by aggregation of NRTS zoning system to cope with the purpose of the Study. The detailed zoning system are described in the main report.
- The OD matrices in the year 2002, 2007 and 2017 in each case were made up based on the future socio-economic framework.

- The five types of vehicle OD matrices, passenger car, taxi, bus, truck and total were prepared in every case of OD matrices.

- With regard to the case of socio-economic framework, the detailed explanation is mentioned in Chapter 2 Socio Economic Conditions in the main report.

(3) Generation and Attraction of Trip-Ends

The generation and attraction of the trip-ends of each OD matrices are tabulated in Table 4.2.2.

Table 4.2.2 (1) OD Matrices in 1995

P. CAR OD TABLE FOR CASE 1 IN 1995

ZONE NO.	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	TOTAL
1	0	0	1	11	9	16	0	10	0	20	66	4	14	0	12	6	89	2	2	9	2	0	0	0	0	0	0	0	0	0	272
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
3	1	0	0	0	1	1	0	0	0	0	0	6	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	14
4	11	0	0	0	7	11	0	0	0	0	4	39	0	0	0	3	28	0	1	4	0	0	0	0	0	0	0	0	0	0	108
5	9	0	1	7	0	11	0	0	0	0	4	4	0	0	0	1	23	0	0	0	0	0	0	0	0	0	0	0	2	0	62
6	16	0	1	11	11	0	0	0	0	0	1	7	0	0	0	1	35	0	1	2	0	0	0	0	0	0	0	0	0	0	86
7	0	0	0	0	0	0	0	0	0	6	10	0	0	0	4	4	6	0	0	0	0	0	0	0	0	0	0	0	0	0	30
8	10	0	0	0	0	0	0	0	0	5	167	7	6	0	6	2	28	4	0	1	2	0	0	0	0	0	0	0	0	0	236
9	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	8
10	20	0	0	0	0	0	5	5	0	0	239	20	749	241	61	101	707	27	43	88	20	1	2	9	0	2	0	0	3	0	2343
11	45	0	0	4	4	1	10	167	1	239	0	80	16	38	68	352	935	2	13	17	8	1	3	12	0	0	0	0	0	0	2016
12	4	0	6	39	4	6	0	8	5	20	60	0	11	6	8	102	398	25	28	19	7	11	10	48	0	0	0	0	0	0	825
13	14	0	0	0	0	0	0	6	0	749	16	11	0	689	307	820	690	379	465	81	7	5	0	6	0	0	3	0	1	0	3919
14	0	0	0	0	0	0	0	0	0	241	38	6	689	0	801	1733	943	163	1098	131	20	18	1	23	0	0	0	0	21	0	5926
15	13	2	0	0	0	0	4	6	0	61	68	9	307	801	0	961	336	7	15	7	0	0	0	0	0	0	0	0	0	0	2587
16	6	1	0	3	1	1	4	2	0	101	252	101	621	1732	961	0	3889	39	489	152	34	10	4	6	0	0	6	2	2	0	8509
17	90	0	5	27	24	34	6	26	2	707	935	308	690	943	337	3889	0	542	3040	3370	1164	518	58	163	7	0	7	0	109	0	17031
18	2	0	0	0	0	0	0	5	0	27	2	25	379	163	7	39	542	0	912	1834	0	7	0	6	0	0	0	0	8	0	3968
19	2	0	0	2	0	1	0	0	0	43	13	28	464	1098	15	488	3080	912	0	659	26	21	0	8	0	0	0	0	11	0	6869
20	9	0	0	4	0	2	0	1	0	88	17	19	61	131	7	152	3370	1834	658	0	39	606	4	47	0	0	0	0	83	0	7122
21	2	0	0	0	0	0	0	2	0	20	7	8	7	20	0	34	1164	0	26	39	0	3	1	134	0	0	0	0	19	0	1686
22	0	0	0	0	0	0	0	0	0	2	1	11	6	18	0	10	619	7	21	606	1	0	0	6	0	0	0	0	3	0	1212
23	0	0	0	0	0	0	0	0	0	2	3	10	0	1	0	4	58	0	0	4	1	0	0	37	0	0	0	0	0	0	120
24	0	0	0	0	0	0	0	0	0	9	13	48	6	23	0	6	183	6	6	47	134	7	37	0	3	0	0	0	1	0	509
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	3	0	0	0	0	0	0	10
26	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
27	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	15
28	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
29	0	0	0	0	2	0	0	0	0	3	0	0	1	21	0	2	109	8	11	83	19	3	0	1	0	0	0	0	0	0	263
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	274	3	14	109	83	84	29	239	8	2345	2016	826	3919	5925	2586	8510	17030	3957	6868	7123	1486	1211	120	506	10	2	16	2	263	0	65543

TAXI OD DISTRIBUTION FOR PURPOSE 2

ZONE NO.	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	TOTAL
1	0	0	2	10	6	12	0	8	0	2	88	2	0	0	4	12	92	0	0	0	0	0	1	0	0	0	0	2	0	0	241
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	2	0	0	1	1	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8
4	10	0	1	0	8	10	0	0	0	0	0	34	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	68
5	6	0	1	6	0	9	0	0	0	2	1	5	0	0	0	0	2	1	0	0	0	0	0	3	0	0	0	0	0	0	36
6	12	0	1	10	9	0	0	0	0	0	0	24	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	60
7	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8	5	0	0	0	0	0	0	0	0	5	38	0	0	0	2	2	14	0	0	0	0	0	0	0	0	0	0	0	0	0	69
9	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
10	2	0	0	0	1	0	0	6	0	0	205	38	484	303	13	42	216	15	51	19	6	1	3	10	0	0	0	0	7	0	1421
11	89	0	0	0	1	0	2	38	0	205	0	35	10	68	98	199	712	4	36	7	22	2	3	14	0	0	0	0	4	0	1849
12	2	0	1	34	5	24	0	0	2	39	35	0	23	39	5	124	83	77	64	22	28	1	25	31	0	0	0	0	5	0	669
13	0	0	0	0	0	3	0	0	0	484	11	23	0	609	196	369	427	251	271	32	1	1	0	3	0	0	1	0	47	0	2731
14	0	0	0	0	0	0	0	0	0	303	67	39	609	0	638	1138	981	227	735	112	5	7	0	2	1	0	0	0	99	0	4860
15	5	0	0	0	0	0	0	2	0	13	98	5	196	538	0	706	318	3	2	6	2	0	1	3	0	0	0	0	5	0	1902
16	12	0	0	0	0	0	2	1	0	42	199	124	349	1135	705	0	3544	28	972	84	20	6	4	20	0	0	0	0	20	0	7287
17	92	1	2	5	1	2	3	14	0	216	712	82	428	981	318	3544	0	637	3290	625	1615	24	21	270	4	0	0	0	193	0	13040
18	0	0	0	0	2	0	0	0	0	15	4	77	251	227	2	28	638	0	901	3299	6	29	4	9	0	0	0	0	79	0	5573
19	0	0	0	0	0	0	0	0	0	51	36	64	271	736	2	972	3289	901	0	962	13	13	6	12	0	0	0	0	29	0	7056
20	0	0	0	0	0	0	0	0	0	19	7	22	32	113	6	84	625	3299	662	0	21	321	1	47	1	0	0	0	67	0	5327
21	0	0	0	0	0	0	0	0	0	7	22	27	1	5	2	20	1615	8	13	21	0	10	3	302	0	0	0	0	229	0	2285
22	0	0	0	0	0	0	0	0	0	1	2	1	3	7	0	7	24	29	13	321	10	0	0	10	0	0	0	0	1	0	429
23	2	0	0	0	0	0	0	0	0	3	3	25	0	1	1	4	21	4	5	1	1	0	0	187	0	0	0	0	0	0	260
24	0	0	0	0	0	3	0	0	0	10	15	31	2	2	4	20	270	9	12	47	302	10	187	0	30	0	0	0	185	0	1140
25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	1	0	0	0	31	0	0	0	0	0	0	37
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
28	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
29	0	0	0	0	0	0	0	0	0	7	4	5	47	98	5	20	193	79	29	66	229	1	0	198	0	0	0	0	0	0	969
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	244	1	8	66	35	61	7	88	2	1424	1549	668	2731	4882	1901	7288	13080	5572	7066	5325	2285	428	259	1140	36	0	1	2	971	0	67070

Table 4.2.2 (2) OD Matrices in 1995

BUS OD TABLE FOR CASE 1 IN 1995

ZONE NO.	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	TOTAL
1	0	0	0	1	1	1	0	1	0	2	34	1	9	0	6	6	22	7	2	0	0	0	0	0	0	0	0	0	1	0	94
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	11
4	1	0	0	0	0	0	0	0	0	0	1	19	0	0	3	1	7	0	0	3	0	0	0	0	0	0	0	0	0	0	35
5	1	0	0	0	0	3	0	0	0	0	3	10	13	1	1	4	16	0	2	2	3	0	0	0	0	0	0	0	1	0	60
6	1	0	0	0	0	3	0	0	1	0	0	3	24	3	0	0	4	38	0	0	0	1	0	0	3	0	0	0	0	0	81
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	0	0	0	0	0	1	0	0	0	2	30	0	2	0	1	1	11	0	0	0	0	0	0	0	0	0	0	0	0	49
9	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	6
10	2	0	0	0	0	0	0	2	0	0	16	6	30	4	9	3	78	6	14	12	1	1	0	6	0	0	0	0	0	0	189
11	34	0	2	1	3	2	0	30	0	17	0	9	1	9	18	64	64	1	4	6	3	2	0	1	0	0	0	0	0	0	270
12	1	0	3	19	10	25	0	0	3	5	9	0	1	29	5	28	6	3	14	6	8	1	7	10	0	0	0	0	0	0	190
13	9	0	0	0	14	3	0	2	0	30	2	0	0	112	55	100	80	55	98	12	7	0	0	0	0	0	1	0	0	0	570
14	0	0	0	0	1	1	0	0	0	4	9	30	111	0	135	295	163	40	278	18	4	1	1	1	0	0	2	0	8	0	1091
15	6	0	0	3	1	1	0	1	0	10	18	8	66	136	0	170	59	0	1	2	0	0	0	0	0	0	0	0	0	0	484
16	7	0	0	1	3	4	0	0	0	3	64	26	100	285	170	0	381	2	98	20	8	1	1	2	0	0	0	0	7	0	1163
17	22	2	5	7	16	38	0	11	3	78	64	6	80	183	59	361	0	103	647	177	547	141	15	57	3	0	7	6	36	0	2647
18	7	0	0	0	0	0	0	0	0	6	1	3	55	40	0	2	103	0	145	508	3	8	0	0	1	0	0	0	1	0	882
19	2	0	0	0	0	3	0	0	0	0	15	4	14	88	278	1	98	647	145	0	74	7	4	2	2	0	0	0	0	7	0	1391
20	0	0	0	0	3	2	0	0	0	0	12	5	5	12	17	2	20	177	508	74	0	19	173	6	10	1	0	0	0	1	0	1046
21	0	0	0	0	0	3	2	0	0	0	1	3	6	6	5	0	8	547	3	7	19	0	5	1	68	1	0	0	0	6	0	693
22	0	0	0	0	0	0	0	0	0	0	1	2	1	0	1	1	1	141	8	4	173	4	0	1	2	0	0	0	0	0	0	340
23	0	0	0	0	0	0	0	0	0	0	1	7	0	1	0	1	15	0	2	4	1	1	0	19	0	0	0	0	0	0	0	52
24	0	0	0	0	0	0	0	0	0	0	6	1	10	0	1	0	2	57	0	2	10	67	2	19	0	5	0	0	0	13	0	198
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	1	0	0	0	5	0	0	0	0	0	0	10
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	2	0	0	0	0	1	0	0	0	0	0	0	0	8	0	7	35	1	7	2	6	0	0	13	0	0	0	0	0	0	0	82
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	98	2	10	35	61	82	0	48	6	191	273	190	567	1091	466	1164	2646	992	1389	1047	689	340	52	197	11	0	10	0	80	0	11626

TRUCK OD TABLE FOR CASE 1 IN 1995

ZONE NO.	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	TOTAL
1	0	0	0	0	0	0	0	0	0	34	183	65	34	20	72	64	144	6	19	8	5	0	2	8	0	0	0	0	0	0	646
2	0	0	0	0	0	0	0	0	0	0	13	10	1	2	4	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	48
3	0	0	0	0	0	0	0	0	0	2	6	11	0	0	1	1	16	0	0	2	0	0	0	0	0	0	0	0	0	0	39
4	0	0	0	0	0	0	0	0	0	0	5	10	75	3	0	0	2	55	0	4	7	0	0	3	1	0	0	0	0	0	166
5	0	0	0	0	0	0	0	0	0	0	2	3	28	2	2	0	5	22	0	2	3	1	0	0	1	0	0	0	0	0	71
6	0	0	0	0	0	0	0	0	0	0	11	40	12	0	18	9	75	0	5	7	2	0	3	1	0	0	0	0	0	0	180
7	0	0	0	0	0	0	0	0	0	0	2	8	5	0	3	2	2	20	0	0	0	0	0	0	0	0	0	0	0	0	42
8	0	0	0	0	0	0	0	0	0	12	328	11	37	4	30	13	23	2	0	6	0	0	0	1	0	0	0	0	0	0	466
9	0	0	0	0	0	0	0	0	0	0	8	25	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	37
10	34	0	2	5	2	0	2	11	0	0	305	257	490	159	146	464	603	51	102	148	42	7	0	13	0	0	0	0	1	0	2844
11	183	13	6	10	3	11	8	328	7	306	0	180	35	179	246	581	641	2	54	89	10	0	0	1	0	0	0	1	0	0	2766
12	55	10	11	76	27	41	5	11	26	257	153	0	212	135	25	396	2007	23	244	216	18	8	35	171	23	0	2	0	0	0	4184
13	35	1	0	3	2	12	0	37	0	490	35	212	0	246	31	290	1825	338	505	411	218	5	0	580	0	0	3	0	1	0	5299
14	20	2	0	0	3	0	2	4	0	159	179	136	246	0	114	726	1369	416	1752	871	11	17	28	132	0	0	0	0	2	0	6189
15	73	4	1	0	0	15	2	31	0	146	246	25	31	114	0	212	365	11	159	42	1	1	108	0	0	0	0	0	1	0	1586
16	54	0	1	2	4	9	1	13	0	484	581	396	290	725	212	0	2871	288	2033	1443	319	0	1	99	1	0	1	0	1	0	9816
17	144	18	16	65	22	75	20	22	4	603	641	2007	1825	1369	364	2871	0	1962	6181	3499	1735	36	42	776	7	0	8	8	12	0	22792
18	8	0	0	0	0	0	0	2	0	51	2	23	338	416	11	288	1962	0	1933	3454	41	1006	0	165	0	0	0	0	3	0	9300
19	20	0	0	3	3	5	0	0	0	102	54	244	506	1752	159	2033	5161	1933	0	3194	73	239	0	103	0	0	3	7	4	0	15587
20	8	0	2	7	3	7	0	6	0	148	89	216	411	871	42	1443	3499	3454	3194	0	271	1621	61	377	0	0	0	2	7	0	16739
21	5	0	0	0	0	2	1	0	0	42	10	18	218	11	1	320	1735	41	73	271	0	0	2	159	0	0	0	0	14	0	2923
22	0	0	0	0	0	0	0	0	0	7	0	6	6	17	0	0	36	1006	239	1621	1	0	0	0	0	0	0	0	0	0	2938
23	2	0	0	0	3	0	3	0	0	0	0	35	0	25	108	1	42	0	0	61	2	0	0	155	0	0	0	0	0	0	440
24	0	0	0	2	1	1	0	0	0	13	1	171	586	132	0	99	776	165	104	377	158	0	155	0	20	0	0	0	1	0	2765
25	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	1	7	0	0	0	0	0	0	20	0	0	0	0	0	0	51
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	2	8	0	2	0	0	0	0	0	0	0	0	0	5	0	22
28	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6	0	7	3	0	0	0	0	0	0	0	0	0	0	14
29	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	1	12	3	4	7	14	0	0	1	0	0	0	0	0	0	62
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	649	48	39	166	72	180	40	465	37	2946	2767	4184	5289	5186	1584	9823	22794	9300	15586	16739	2922	2937	440	2765	51	0	22	18	62	0	107001

Table 4.2.2 (3) OD Matrices in 1995

ALL VEHICLES OD TABLE FOR CASE 1 IN 1995

ZONE NO.	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	TOTAL
1	0	0	3	22	16	29	0	19	0	58	370	62	57	20	94	88	347	15	23	17	7	0	3	0	0	0	0	2	1	0	1253
2	0	0	0	0	0	0	0	0	0	0	13	10	1	2	6	1	22	0	0	0	0	0	0	0	0	0	0	0	0	0	55
3	3	0	0	1	2	2	0	0	0	2	9	22	0	0	1	1	27	0	0	2	0	0	0	0	0	0	0	0	0	0	72
4	22	0	1	0	13	21	0	0	0	6	15	187	3	0	3	0	95	0	5	14	0	0	3	1	0	0	0	0	0	0	375
5	16	0	2	13	0	23	0	0	0	4	11	47	15	3	1	10	63	1	4	5	4	0	0	4	0	0	0	0	3	0	229
6	29	0	2	21	23	0	0	1	0	0	16	95	18	0	16	14	149	0	6	9	3	0	3	4	0	0	0	0	0	0	407
7	0	0	0	0	0	0	0	0	0	8	20	5	0	3	6	7	29	0	0	0	0	0	0	0	0	0	0	0	0	0	78
8	19	0	0	0	0	1	0	0	0	24	563	18	45	4	39	18	74	6	0	6	2	0	0	1	0	0	0	0	0	0	820
9	0	0	0	0	0	0	0	0	0	0	9	36	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	54
10	58	0	2	5	3	0	7	23	0	0	765	321	1753	707	229	610	1604	98	210	267	69	10	5	38	0	2	0	0	11	0	6797
11	371	13	8	16	11	14	20	563	8	766	0	257	62	294	430	1196	2252	9	107	118	43	5	6	28	0	0	0	1	4	0	6601
12	62	10	21	168	46	98	5	19	36	321	257	0	247	209	43	647	2494	128	350	262	61	19	77	260	23	0	2	0	5	0	5868
13	58	1	0	3	16	19	0	45	0	1753	64	246	0	1656	589	1379	2922	1023	1329	506	233	13	0	598	0	0	8	0	49	0	12509
14	20	2	0	0	4	0	2	4	0	707	293	211	1655	0	1888	3879	3456	848	3863	1132	40	43	30	158	1	0	2	0	130	0	18066
15	97	6	1	3	1	15	6	40	0	230	430	44	589	1568	0	2038	1078	21	177	67	3	1	109	3	0	0	0	0	6	0	6343
16	99	1	1	6	8	14	7	16	0	610	1196	646	1380	3877	2038	0	10686	257	3592	1699	381	17	10	127	1	0	7	2	30	0	28177
17	348	21	28	94	60	149	29	73	9	1604	2252	2493	2923	3456	1078	10686	0	2844	12168	7671	5061	719	136	1266	21	0	22	8	349	0	55650
18	15	0	0	0	2	0	0	7	0	98	9	128	1023	846	20	357	2845	0	3891	9095	82	1049	4	180	1	0	0	0	91	0	19713
19	24	0	0	6	6	6	0	0	0	211	107	350	1328	3863	177	3562	12167	3891	0	4586	119	277	8	122	0	0	3	7	51	0	30903
20	17	0	2	14	5	9	0	7	0	267	118	262	506	1132	57	1699	7671	9095	4588	0	356	2721	71	481	2	0	0	2	156	0	29234
21	7	0	0	0	5	3	0	2	0	70	42	61	232	41	3	382	5061	52	119	350	0	18	7	661	1	0	0	0	256	0	7385
22	0	0	0	0	0	0	0	0	0	11	5	19	14	43	1	18	720	1049	277	2721	18	0	1	18	0	0	0	0	4	0	4919
23	4	0	0	3	0	3	0	0	0	5	7	77	0	31	109	10	136	4	7	70	7	1	0	398	0	0	0	0	0	0	872
24	0	0	0	2	4	4	0	0	0	38	30	260	597	158	4	127	1286	180	123	481	661	19	398	0	58	0	0	0	291	0	4611
25	0	0	0	0	0	0	0	0	0	0	0	23	0	1	0	1	21	1	0	2	0	0	0	59	0	0	0	0	0	0	108
26	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
27	0	0	0	0	0	0	0	0	0	0	0	3	8	7	0	8	20	0	2	0	0	0	0	0	0	0	0	0	5	0	48
28	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	8	0	7	3	0	0	0	0	0	0	0	0	0	0	24
29	2	0	0	0	3	0	0	0	0	11	4	5	50	128	6	30	349	91	51	158	268	4	0	201	0	0	6	0	0	0	1386
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1263	54	71	375	231	407	76	820	53	6806	6605	5868	12506	18064	6537	26785	55550	19711	30499	29234	7382	4916	871	4608	108	2	49	22	1366	0	241239

Table 4.2.2 (4) OD Matrices for Case 1 in 2002

P. CAR OD TABLE FOR CASE 1 IN 2002

ZONE NO.	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	TOTAL
1	0	47	18	36	69	73	62	128	3	62	70	24	24	12	22	62	372	25	72	44	102	28	21	69	0	46	24	16	2	0	1642
2	47	0	0	2	1	1	1	0	0	1	1	1	1	0	1	2	7	1	1	5	2	1	0	3	0	1	0	0	0	0	80
3	19	0	0	2	2	2	0	1	0	1	2	2	1	0	1	3	10	2	3	5	3	2	1	4	0	1	0	0	1	0	68
4	36	2	1	0	6	23	1	17	10	8	20	65	4	4	6	29	59	3	6	6	31	10	4	13	0	5	4	3	1	0	367
5	69	1	3	6	0	29	2	3	2	7	8	9	6	4	5	23	41	6	8	11	43	3	7	4	1	11	8	8	2	0	327
6	73	2	2	23	29	0	2	6	1	10	10	16	7	6	9	32	60	9	13	18	59	9	14	7	0	7	7	8	1	0	438
7	62	1	0	1	2	2	0	28	0	16	11	5	5	2	4	16	38	5	9	11	9	2	2	8	0	1	2	1	0	0	242
8	128	1	1	17	3	6	28	0	3	40	80	49	14	5	21	76	181	17	38	71	32	7	4	25	0	4	2	2	2	0	815
9	3	0	0	10	2	1	0	4	0	1	4	13	0	1	1	5	20	1	3	4	3	1	1	4	0	1	1	0	0	0	84
10	62	1	1	8	8	10	16	40	1	6	51	19	378	83	27	72	190	60	77	92	49	18	9	226	1	9	6	3	4	0	1800
11	70	1	1	21	6	10	11	80	4	50	0	79	54	38	33	192	428	34	84	57	63	13	5	192	0	6	4	3	3	0	1842
12	25	1	2	55	9	16	5	49	13	19	79	0	29	26	19	115	493	28	56	64	81	17	10	267	0	8	5	5	3	0	1499
13	24	1	1	4	6	7	5	14	0	378	54	29	0	499	77	292	404	272	359	323	113	45	19	516	0	21	13	6	13	0	3496
14	12	0	0	4	4	6	2	5	1	83	38	27	498	0	217	624	726	582	769	259	129	32	14	486	0	14	9	4	10	0	4535
15	22	1	1	6	5	9	4	21	0	27	33	19	77	216	0	674	509	91	223	96	76	15	7	229	0	6	5	3	4	0	2379
16	82	2	3	29	22	32	15	77	5	72	192	115	292	625	673	0	3871	413	1359	457	372	58	26	896	1	26	16	10	17	0	9748
17	372	8	10	60	41	59	38	181	20	190	429	493	405	726	509	3871	0	994	2360	1603	4726	206	94	3285	4	86	65	41	66	0	20931
18	25	1	2	3	6	9	4	17	1	50	35	28	271	582	90	413	994	0	2167	1078	191	56	21	746	0	19	10	5	19	0	6843
19	72	1	3	8	8	11	9	38	3	77	84	56	359	769	223	1359	2360	2168	0	1186	399	75	32	1076	1	28	17	9	25	0	10454
20	44	4	6	9	11	18	11	30	4	92	57	64	324	258	96	457	1803	1078	1186	0	547	298	68	2265	1	39	18	7	71	0	8654
21	102	3	5	39	43	59	9	32	4	49	63	81	112	129	76	372	4726	191	400	647	0	112	51	2040	3	38	20	14	30	0	9339
22	29	0	2	10	3	9	3	7	1	19	12	17	46	32	15	57	206	57	75	298	112	0	3	123	0	4	3	2	86	0	1230
23	22	0	1	5	7	13	2	4	1	9	5	10	19	15	6	26	94	21	31	68	51	4	0	537	0	2	1	0	1	0	948
24	69	2	4	13	4	7	9	23	4	225	191	267	616	466	229	887	3285	745	1076	2265	2041	123	537	0	27	12	4	6	47	0	13083
25	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	4	0	1	1	3	0	0	27	0	0	0	0	2	0	40
26	46	1	1	5	11	7	1	4	1	9	6	8	21	14	6	25	87	19	28	39	38	4	2	12	0	0	0	0	2	0	396
27	25	1	0	4	9	7	1	3	0	6	4	6	13	9	5	16	55	9	17	18	20	3	1	4	0	0	0	0	1	0	236
28	16	0	0	3	8	8	1	2	1	3	2	5	7	4	3	10	40	5	9	7	15	1	1	7	0	0	0	0	1	0	159
29	2	0	1	0	0	2	1	0	1	4	3	3	13	10	4	17	66	19	25	71	30	86	1	48	0	2	0	1	0	0	418
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1546	81	67	368	328	436	242	816	83	1499	1541	1500	3498	4536	2379	9747	29929	6845	10453	8654	9340	1229	945	13086	39	396	234	157	412	0	101341

TAXI OD TABLE FOR CASE 1 IN 2002

ZONE NO.	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	TOTAL
1	0	36	18	33	66	59	52	106	4	37	48	18	16	7	15	53	238	14	43	25	67	14	12	60	0	7	3	1	10	0	1042
2	36	0	1	1	0	1	0	0	0	1	0	1	0	0	0	1	5	1	1	2	1	0	0	2	0	0	1	0	0	0	55
3	18	1	0	0	2	0	0	1	0	1	0	3	0	0	0	2	7	1	1	3	2	1	1	2	0	0	0	0	0	0	46
4	33	1	0	0	4	16	0	9	6	8	15	41	3	2	3	19	40	3	5	4	18	4	4	9	0	1	0	0	3	0	248
5	66	1	2	4	0	27	1	1	1	6	4	8	4	2	4	18	31	4	5	9	31	3	5	6	0	2	1	2	6	0	254
6	59	0	0	16	27	0	1	4	2	7	7	12	5	3	6	21	39	4	8	10	36	5	8	8	0	1	1	1	5	0	296
7	52	0	1	0	1	2	0	14	0	11	8	3	4	1	3	9	25	3	6	6	6	1	1	4	0	0	0	0	1	0	160
8	106	1	0	9	2	3	14	0	2	29	55	35	9	4	14	53	128	11	25	18	20	3	2	15	0	0	0	0	3	0	554
9	4	0	0	6	1	2	0	2	0	1	4	9	0	0	1	3	13	1	2	2	2	0	0	2	0	0	0	0	1	0	68
10	37	1	1	5	5	7	11	29	1	0	48	18	356	77	25	84	167	44	68	78	41	10	5	191	0	2	1	0	13	0	1306
11	48	0	1	15	4	7	8	55	4	48	0	75	50	34	30	177	393	30	78	49	56	8	4	169	0	1	2	0	7	0	1340
12	18	1	2	41	8	13	3	35	9	18	75	0	26	23	16	106	454	23	49	61	70	11	7	223	0	1	1	0	10	0	1283
13	16	0	0	3	4	4	4	10	0	356	50	26	0	466	69	282	346	245	322	286	88	26	13	432	1	3	1	2	36	0	2061
14	7	0	0	2	3	3	1	4	0	77	34	23	456	0	194	567	639	521	687	227	106	19	9	374	1	2	1	1	27	0	3975
15	15	0	0	3	4	6	3	14	0	25	30	16	70	194	0	600	454	80	200	83	64	9	4	184	0	1	0	0	12	0	2071
16	52	1	2	19	17	21	10	82	3	64	177	106	262	557	600	0	3446	356	1210	399	319	33	18	715	3	3	2	2	47	0	8506
17	238	4	7	40	31	39	26	120	14	167	392	454	346	839	454	3446	0	869	2094	1398	4222	122	64	2788	12	10	7	6	182	0	18190
18	14	1	1	3	4	4	3	11	1	43	31	22	245	521	80	366	869	0	1935	987	157	34	14	598	2	2	1	1	51	0	6081
19	43	1	1	5	5	8	5	28	2	68	76	49	322	688	200	1209	2094	1936	0	1078	341	45	20	866	3	4	2	1	68	0	9166
20	25	2	3	4	9	10	6	18	2	79	48	51	287	226	83	399	1399	987	1078	0	454	219	41	1905	5	6	3	1	221	0	7571
21	57	1	3	18	31	36	5	21	2	40	55	70	88	106	64	319	4222	157	341	453	0	63	36	1911	7	6	2	1	86	0	8201
22	14	1	1	3	3	5	1	2	2	10	8	10	26	19	9	33	121	34	46	219	63	0	3	124	1	1	0	1	303	0	1063
23	12	0	0	4	6	8	1	2	0	5	4	8	13	9	6	18	64	14	20	41	35	3	0	531	1	0	1	0	8	0	811
24	50	2	2	9	6	7	5	15	2	198	159	223	431	374	183	715	2788	598	886	1906	1911	124	531	0	125	3	2	1	247	0	11474
25	0	0	0	0	0	0	1	0	0	0	1	0	1	1	1	3	12	1	3	8	7	1	0	125	0	0	0	0	1	0	166
26	7	0	0	1	2	1	0	0	0	2	1	1	3	2	0	2	11	2	4	5	5	1	1	3	0	0	0	0	1	0	65
27	4	0	0	0	1	1	0	1	0	1	1	1	1	1	0	3	7	1	1	3	3	0	0	2	0	0	0	0	1	0	33
28	1	0	0	0	2	1	0	0	0	1	0	0	2	1	0	2	5	0	1	2	1	1	0	2	0	0	0	0	0	0	22
29	10	0	0	3	8	6	1	3	1	12	8	10	37	27	11	48	182	52	68	221	86	303	6	247	1	1	1	0	0	0	1349
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1043	55	46	247	284	297	161	554	58	1306	1338	1294	3053	3974	2070	8507	18190	6002	9164	7570	8199	1065	809	11478	162	57	34	21	1348	0	88365

Table 4.2.2 (5) OD Matrices for Case 1 in 2002

BUS OD TABLE FOR CASE 1 IN 2002

ZONE NO.	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	TOTAL
1	0	17	10	24	45	37	28	76	3	13	17	6	7	3	8	26	102	7	21	9	25	3	3	13	0	10	6	2	1	0	520
2	17	0	1	0	1	0	0	1	0	0	0	1	0	0	0	1	2	1	0	1	0	0	0	1	0	0	0	0	0	0	27
3	10	1	0	0	1	1	0	0	0	1	1	0	0	0	0	1	4	0	1	1	1	0	0	1	0	0	0	0	0	0	24
4	24	1	0	0	3	10	1	7	4	2	5	11	1	2	5	20	17	2	2	2	16	2	1	3	0	0	0	1	1	0	137
5	45	1	1	3	0	16	0	3	0	2	2	2	1	1	2	4	13	2	2	3	10	1	1	2	0	2	1	2	1	0	122
6	37	0	1	10	16	0	1	4	1	3	3	5	1	1	2	6	17	2	4	4	16	1	3	2	1	0	1	0	2	0	142
7	28	1	0	1	0	1	0	7	1	3	2	2	1	1	2	5	11	2	4	3	3	1	0	2	0	1	0	0	0	0	82
8	76	1	0	7	3	0	8	0	1	10	14	10	4	2	6	25	56	8	14	11	12	2	1	6	0	1	1	0	1	0	282
9	3	0	0	4	0	1	0	1	0	1	0	3	0	0	0	2	5	1	1	2	1	0	0	1	0	0	0	0	0	0	26
10	13	0	1	2	2	3	3	16	0	0	7	4	42	14	5	16	37	11	16	17	10	2	2	30	0	1	0	0	1	0	249
11	17	1	1	5	2	3	3	14	0	7	0	9	9	8	5	30	64	7	17	11	12	2	1	28	0	1	0	0	1	0	258
12	6	1	0	11	2	5	2	11	2	4	9	0	7	5	4	20	74	7	12	11	15	2	2	36	0	0	1	1	0	0	280
13	7	0	0	2	1	1	1	4	0	42	10	6	0	69	14	57	82	50	67	80	23	6	3	70	0	3	1	0	3	0	582
14	3	0	0	2	1	1	1	2	0	14	8	5	89	0	33	100	137	90	121	52	29	6	2	76	0	2	0	1	2	0	757
15	8	0	0	6	1	2	2	6	0	5	5	4	14	32	0	86	86	19	39	20	17	2	1	38	0	0	1	0	1	0	395
16	26	1	1	20	4	6	5	24	2	16	30	20	57	100	85	0	556	84	220	95	80	9	5	157	1	2	1	1	4	0	1611
17	101	2	4	17	13	18	11	56	5	37	94	74	81	137	86	556	0	193	399	289	632	32	15	577	3	8	4	4	16	0	3433
18	7	1	0	2	2	2	2	8	0	11	8	6	51	90	19	84	193	0	288	178	44	10	3	118	0	2	0	1	5	0	1133
19	21	0	0	3	2	4	3	15	1	17	16	12	67	121	38	220	398	288	0	206	84	14	5	181	1	2	2	1	7	0	1729
20	9	1	2	2	2	4	3	11	1	17	11	11	60	53	20	95	289	178	205	0	100	48	8	275	1	4	1	1	19	0	1427
21	25	1	1	9	11	14	3	12	2	10	12	16	23	29	16	80	632	43	84	100	0	16	7	397	1	3	1	1	6	0	1554
22	3	0	0	3	1	1	1	2	0	2	2	2	6	5	3	9	32	11	14	47	16	0	1	19	1	1	0	0	24	0	206
23	3	0	0	1	1	3	1	1	0	1	1	2	2	3	1	5	16	3	5	6	7	1	0	97	0	0	0	1	0	0	169
24	13	1	1	3	1	2	2	7	1	30	28	36	70	76	37	157	678	117	181	275	397	19	97	0	27	1	1	1	16	0	2176
25	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	3	1	1	1	1	1	0	27	0	0	0	0	0	0	38
26	10	0	0	0	3	0	1	0	0	1	1	1	0	2	2	0	7	2	4	3	0	0	1	0	0	0	0	0	1	0	42
27	5	0	0	1	1	0	0	1	0	1	1	1	1	1	0	3	4	0	2	1	1	0	1	1	0	0	0	0	0	0	25
28	2	0	0	1	2	1	0	0	0	0	0	0	0	1	0	1	4	0	1	1	1	0	1	1	0	0	0	0	0	0	17
29	1	0	0	1	0	2	0	1	0	1	0	1	3	2	1	4	16	5	7	21	6	24	0	16	0	0	0	0	0	0	112
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	619	31	24	140	120	142	82	283	25	251	256	249	579	759	393	1614	3433	1132	1729	1429	1584	203	161	2176	36	44	21	18	112	0	17515

TRUCK OD TABLE FOR CASE 1 IN 2002

ZONE NO.	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	TOTAL
1	0	91	48	131	278	156	163	377	22	103	150	56	47	27	58	209	732	45	152	38	128	22	13	77	0	2	1	0	1	0	3116
2	91	0	1	2	4	3	0	2	0	2	3	4	1	1	1	6	19	3	5	4	6	1	2	2	0	0	0	0	0	0	162
3	48	1	0	3	7	3	0	2	1	2	3	5	1	1	2	8	24	3	6	5	6	1	0	4	0	0	0	0	0	0	136
4	131	2	3	0	16	54	5	25	7	20	36	65	10	9	18	86	129	9	18	10	61	8	8	15	0	0	0	0	0	0	745
5	278	4	7	17	0	105	3	11	3	13	16	26	7	6	12	51	73	9	13	8	45	11	8	22	0	0	0	2	0	0	747
6	156	3	3	53	106	0	5	21	4	23	32	61	12	10	21	83	130	12	20	14	76	14	12	28	0	0	1	0	1	0	869
7	163	1	0	5	3	5	0	17	1	21	16	11	10	5	10	39	89	15	28	19	21	3	1	10	0	0	0	0	0	0	483
8	377	2	2	25	11	20	18	0	4	61	70	63	28	17	47	169	369	58	114	69	81	9	8	30	1	0	0	0	0	0	1663
9	23	0	1	7	3	5	6	4	0	4	7	11	2	1	3	15	43	5	10	7	10	1	1	4	0	0	0	0	0	0	168
10	103	2	3	20	13	23	22	61	4	0	86	53	354	177	75	220	492	166	229	207	117	23	10	268	0	0	1	0	0	0	2719
11	150	3	3	36	16	31	16	70	7	86	0	102	120	103	74	337	732	113	226	136	156	16	13	266	0	1	0	0	0	0	2914
12	86	4	5	66	26	61	11	63	11	53	102	0	78	82	67	279	844	92	177	129	183	20	22	326	0	0	1	0	0	0	2737
13	47	1	1	10	7	13	10	28	2	358	120	78	0	593	176	641	959	546	738	630	231	63	17	546	1	1	0	0	1	0	5618
14	27	1	1	16	6	10	5	17	1	177	103	82	593	0	266	966	1611	824	1114	600	332	58	17	620	1	0	0	0	1	0	7377
15	58	2	2	17	12	21	10	47	3	75	74	57	176	300	0	717	971	246	459	259	207	25	11	353	0	0	1	0	0	0	4103
16	209	5	5	86	51	82	40	168	15	220	337	279	841	966	717	0	4943	990	2094	1129	909	102	42	1416	1	1	0	1	2	0	15455
17	731	19	23	129	73	130	89	369	43	492	733	844	959	1511	971	4942	0	2181	4059	3068	5137	334	130	6631	5	1	1	1	5	0	32611
18	45	3	4	9	9	12	14	58	6	154	113	91	546	823	246	990	2181	0	2261	1745	487	127	23	947	1	0	0	0	2	0	10897
19	151	5	6	18	13	20	29	114	10	230	228	177	738	1114	459	2094	4059	2261	0	2126	952	170	38	1551	2	1	1	0	3	0	16568
20	39	4	5	10	8	13	19	69	7	207	138	129	630	600	259	1129	3068	1745	2126	0	944	658	39	1903	2	0	1	1	8	0	13761
21	128	5	5	61	45	75	20	82	10	116	157	183	230	333	207	909	5137	487	961	944	0	119	57	4484	3	1	0	0	2	0	14752
22	22	1	1	8	12	14	3	9	1	23	16	20	63	58	26	102	334	127	170	657	119	0	11	490	1	1	0	0	23	0	2312
23	13	2	0	9	8	12	2	8	1	10	12	22	18	17	11	42	130	23	38	40	56	11	0	1348	1	0	1	0	0	0	1875
24	77	3	3	15	22	28	10	30	4	266	266	326	546	620	362	1416	5631	947	1551	1903	4484	491	1388	0	107	1	0	0	18	0	20606
25	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	1	5	0	2	1	3	1	0	107	0	0	0	0	0	0	123
26	3	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	1	1	0	1	1	0	1	0	0	0	0	0	0	12
27	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	7
28	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	5
29	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	2	5	2	3	9	2	22	1	18	0	0	0	0	0	0	68
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3116	168	136	748	748	887	484	1864	167	2717	2816	2735	5817	7376	4102	15454	32813	10899	16566	13761	14753	2311	1872	20606	126	10	9	5	67	0	162617

Table 4.2.2 (6) OD Matrices for Case 1 in 2002

ALL VEHICLES OD TABLE FOR CASE 1 IN 2002

ZONE NO.	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	TOTAL
1	0	191	94	224	456	325	296	686	32	205	285	104	94	49	103	370	1444	91	288	116	312	67	49	209	0	64	33	19	14	0	6219
2	191	0	3	6	6	5	1	3	0	4	4	7	2	1	2	10	33	6	7	12	8	2	2	5	0	1	1	0	0	0	324
3	96	3	0	5	12	6	0	4	1	5	6	10	2	1	3	14	46	6	11	14	12	4	2	11	0	1	0	0	1	0	274
4	224	6	4	0	29	103	7	58	27	35	76	172	18	17	32	164	245	17	31	22	120	24	17	40	0	6	4	4	5	0	1497
5	456	7	13	29	0	178	6	19	6	29	28	45	18	13	23	96	158	20	28	31	129	18	21	34	1	16	10	14	9	0	1460
6	325	5	5	102	176	0	9	35	8	43	62	84	25	20	38	142	246	27	43	46	185	29	37	45	1	8	10	9	9	0	1765
7	296	3	1	7	6	10	0	66	2	51	37	21	20	9	19	88	163	25	46	39	38	7	4	24	0	2	2	1	1	0	967
8	686	5	3	58	19	32	66	0	10	140	219	157	55	28	88	323	726	94	191	129	145	21	15	74	1	5	4	2	8	0	3304
9	33	0	1	27	6	9	0	11	0	7	15	36	2	2	5	25	81	9	16	15	16	4	2	11	0	1	1	0	1	0	336
10	205	4	8	35	28	43	52	140	6	0	191	94	1134	351	132	372	886	260	390	394	217	53	26	712	1	12	8	3	18	0	6773
11	285	5	6	77	28	51	38	219	15	190	0	265	230	160	142	736	1617	184	403	256	286	39	23	646	0	9	6	3	11	0	5964
12	106	7	9	172	45	86	21	158	35	94	265	0	140	136	98	519	1866	156	294	255	349	50	41	882	0	9	8	6	13	0	5779
13	94	2	2	19	18	26	20	66	2	1134	234	139	0	1617	336	1252	1791	1113	1486	1299	455	140	52	1664	2	28	15	8	53	0	12966
14	49	1	1	18	14	20	9	28	2	351	193	137	1615	0	744	2247	3013	2017	2691	1138	596	115	42	1538	2	18	10	6	40	0	16644
15	103	3	3	32	22	38	19	88	3	132	142	96	337	742	0	2077	2020	436	921	458	364	61	23	804	0	7	7	3	17	0	8948
16	370	10	14	154	94	141	70	321	25	372	736	520	1252	2248	2075	0	12814	1883	4883	2080	1589	202	91	3174	6	32	19	14	70	0	36320
17	1442	33	44	246	158	246	163	726	80	886	1617	1865	1791	3013	2020	12814	0	4237	8911	6358	14717	694	303	12281	24	105	67	52	269	0	76165
18	91	6	7	17	21	27	23	94	8	258	187	147	1113	2016	436	1853	4237	0	6661	3986	879	227	61	2409	3	23	11	7	77	0	24474
19	287	7	10	32	28	43	47	192	16	392	402	294	1486	2692	921	4882	8911	6653	0	4595	1776	304	95	3674	7	35	22	11	103	0	37917
20	117	11	16	22	30	45	39	128	14	395	254	255	1301	1138	458	2080	6359	3986	4595	0	2045	1223	144	6248	9	49	23	10	319	0	31413
21	312	10	13	118	130	184	37	147	18	215	287	350	453	597	363	1680	14717	978	1776	2044	0	309	151	8832	14	48	23	16	124	0	33846
22	67	2	4	24	19	29	8	20	4	54	38	49	141	114	63	201	693	229	305	1221	309	0	18	756	3	7	3	3	436	0	4810
23	50	2	1	19	22	36	6	16	2	25	22	42	52	44	23	91	303	61	94	145	149	19	0	2553	2	2	3	1	7	0	3791
24	209	8	10	40	33	44	26	76	11	711	644	852	1563	1536	801	3175	12282	2407	3674	6349	8833	787	2553	0	286	17	7	8	328	0	47234
25	0	0	0	0	1	3	0	1	0	2	0	1	2	3	2	5	24	2	7	9	14	3	0	286	0	0	0	0	1	0	366
26	65	1	1	6	16	8	2	6	1	12	9	9	27	19	6	29	108	24	36	48	47	6	3	17	0	0	0	0	4	0	505
27	35	0	0	5	11	8	1	6	0	10	6	8	15	11	5	22	67	10	20	21	25	3	2	8	0	0	0	0	2	0	301
28	19	0	0	4	14	10	1	2	1	4	2	5	9	6	3	14	50	5	11	11	17	2	2	10	0	0	0	0	1	0	203
29	14	0	1	4	8	9	1	5	1	17	11	14	54	40	16	71	269	78	103	322	123	435	8	329	1	3	1	1	0	0	1929
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6224	332	273	1601	1460	1761	969	3306	333	5772	5951	5778	12955	16644	8944	35322	75165	24878	37911	31414	33846	4808	3787	47246	363	507	298	201	1939	0	369878

Table 4.2.2 (7) OD Matrices for Case 1 in 2007

P. CAR OD TABLE FOR CASE 1 IN 2007

ZONE NO.	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	TOTAL
1	0	63	29	67	116	104	109	197	9	71	90	36	33	15	28	105	537	31	99	73	134	42	27	83	0	58	33	18	3	0	2209
2	63	0	2	1	1	1	0	2	0	0	1	3	1	0	0	3	10	1	3	6	4	1	1	2	0	2	0	0	0	0	106
3	29	2	0	3	6	2	1	2	0	1	2	4	1	0	1	5	17	2	4	8	6	2	1	4	0	2	0	1	0	0	105
4	67	1	3	0	11	31	3	30	15	12	27	84	6	3	9	42	88	5	10	11	42	15	7	20	1	7	4	4	2	0	560
5	116	2	6	10	0	43	2	7	2	11	9	16	10	6	9	36	67	8	13	21	64	6	11	8	0	17	11	12	1	0	523
6	104	1	3	31	43	0	3	10	2	13	11	23	10	7	10	40	78	9	14	27	72	11	16	9	0	8	8	8	3	0	674
7	109	0	1	3	2	3	0	54	0	26	16	8	8	2	6	23	60	6	14	20	13	4	2	13	0	2	2	1	0	0	398
8	197	2	2	30	7	10	54	0	6	67	128	88	24	8	34	131	318	26	64	61	51	14	6	39	0	7	4	2	2	0	1382
9	9	0	0	15	2	2	0	6	0	2	5	18	1	1	1	6	26	2	4	6	5	1	1	4	0	9	2	0	0	0	119
10	71	0	1	12	12	13	26	66	2	0	63	28	509	99	36	95	261	70	102	142	63	26	10	291	0	11	7	4	5	0	2023
11	90	1	3	26	9	11	16	129	5	63	0	104	70	44	39	246	562	39	106	86	77	17	8	242	0	7	4	3	3	0	2008
12	36	2	4	84	16	23	8	88	18	27	104	0	42	33	26	162	719	40	79	106	108	27	12	373	1	10	8	5	5	0	2166
13	33	1	1	7	10	10	8	24	1	509	70	41	0	614	101	396	567	335	487	517	146	67	24	681	0	26	16	8	15	0	4715
14	15	0	0	3	6	7	2	8	1	99	44	33	614	0	252	757	909	832	933	418	149	43	15	559	0	15	9	5	11	0	5739
15	28	1	1	8	9	10	6	34	1	35	39	25	101	252	0	870	682	128	289	148	93	21	8	296	0	8	5	3	5	0	3105
16	105	3	4	42	36	40	23	130	7	96	245	162	396	757	870	0	5361	618	1919	719	475	83	33	1182	1	31	20	13	20	0	13290
17	537	10	12	88	67	78	60	318	26	261	562	719	568	909	682	5360	0	1249	3271	2609	6280	306	120	4639	7	109	68	49	82	0	27921
18	31	1	3	5	8	9	5	25	2	70	39	40	334	832	129	618	1249	0	2637	1538	221	76	26	877	1	20	11	6	20	0	8836
19	99	3	3	10	12	15	14	64	4	101	106	79	488	933	288	1819	2271	2636	0	1868	510	107	40	1419	2	36	20	13	29	0	13958
20	73	6	9	11	21	27	19	61	6	142	85	107	517	418	148	719	2609	1538	1868	0	821	506	95	3491	2	56	25	13	100	0	13483
21	134	4	6	42	65	72	13	51	5	63	77	107	146	149	93	476	6250	221	510	822	0	154	62	2463	4	44	23	18	34	0	12108
22	42	1	2	15	5	11	4	14	1	27	17	27	67	42	21	83	309	76	107	506	154	0	5	178	0	4	3	3	110	0	1831
23	27	1	1	7	12	16	2	6	1	16	7	13	24	15	8	34	119	25	40	85	61	5	0	792	0	2	1	1	2	0	1317
24	83	2	4	20	7	9	13	39	5	291	242	372	682	558	294	1182	4639	877	1420	3490	2463	178	791	0	44	14	10	7	57	0	17693
25	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	7	1	2	3	4	0	0	44	0	0	0	0	0	0	65
26	59	1	2	7	17	8	2	6	0	11	7	11	25	16	8	31	108	21	36	56	44	4	2	14	0	0	0	0	1	0	498
27	33	0	0	5	11	8	2	4	1	7	4	8	16	9	6	19	69	11	20	25	23	3	1	10	0	0	0	0	1	0	296
28	18	1	0	4	12	8	1	2	0	4	3	5	8	4	3	13	49	8	12	13	18	2	1	7	0	0	0	0	1	0	198
29	3	0	0	2	1	2	0	2	0	5	3	5	15	11	5	20	81	29	29	100	35	110	2	57	0	1	1	1	0	0	511
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2211	109	106	569	523	573	397	1380	120	2023	2006	2169	4715	5737	3106	13291	28919	8835	13990	13483	12106	1831	1316	17695	63	496	296	200	512	0	138766

TAXI OD TABLE FOR CASE 1 IN 2007

ZONE NO.	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	TOTAL
1	0	54	29	59	112	88	99	165	8	54	70	26	24	11	19	73	364	20	64	43	86	22	14	68	0	9	5	3	13	0	1622
2	54	0	1	1	1	1	0	0	0	1	1	1	1	0	0	1	6	1	1	3	2	0	0	2	0	0	1	0	0	0	79
3	29	1	0	1	4	1	1	0	0	1	1	4	0	0	0	4	11	1	2	6	3	1	0	4	0	0	1	0	0	0	76
4	59	1	1	0	8	24	2	20	11	7	22	69	4	3	6	32	65	3	6	7	29	7	5	14	0	2	0	0	4	0	411
5	112	1	4	8	0	37	2	4	1	8	12	5	4	7	24	46	5	8	14	43	4	7	9	1	2	2	1	7	0	364
6	88	1	1	24	38	0	1	7	1	10	10	19	8	4	6	29	57	6	10	16	48	8	10	11	0	1	2	1	7	0	424
7	99	1	0	3	1	1	0	32	1	18	12	6	6	2	3	17	41	4	9	12	9	1	2	8	0	0	1	0	1	0	290
8	165	1	0	19	4	7	32	0	3	51	97	57	18	6	24	96	250	18	46	38	38	6	4	25	1	1	0	0	5	0	1020
9	8	0	0	11	1	1	1	3	0	1	5	14	0	2	0	5	20	1	3	4	3	0	0	0	0	0	0	0	1	0	89
10	54	1	1	7	8	10	18	51	2	0	99	25	469	89	31	85	225	61	87	119	50	16	7	247	1	1	1	1	14	0	1740
11	70	1	1	22	7	9	13	96	5	59	0	99	63	40	37	222	511	34	94	71	68	10	5	202	1	2	1	0	8	0	1761
12	26	2	3	69	12	19	6	67	14	25	99	0	36	28	23	148	666	33	69	84	96	15	9	314	2	1	0	2	13	0	1870
13	24	1	0	6	5	8	6	18	0	469	64	36	0	552	91	352	478	298	428	446	114	40	15	676	2	3	2	1	44	0	4078
14	11	0	0	3	4	4	2	6	2	89	40	28	552	0	227	672	796	744	822	364	124	26	9	455	2	2	1	0	20	0	5016
15	19	0	0	6	6	7	3	25	0	31	37	22	91	227	0	774	805	115	255	124	81	12	4	241	1	0	1	1	14	0	2702
16	73	2	3	32	24	29	17	96	6	84	223	148	362	672	775	0	4747	549	1601	617	413	49	21	967	4	4	2	2	56	0	11567
17	364	6	11	66	46	67	41	230	19	225	511	656	478	796	605	4747	0	1088	2855	2236	8624	186	77	3864	19	14	8	6	224	0	28068
18	20	1	1	3	5	6	4	18	1	81	34	33	297	744	115	549	1089	0	2326	1391	184	47	16	718	2	3	1	1	67	0	7727
19	84	1	2	6	8	10	9	46	3	87	96	68	429	822	256	1600	2855	2326	0	1656	435	88	23	1145	5	4	2	2	79	0	12106
20	43	3	6	7	14	16	12	39	4	119	71	64	445	366	124	618	2236	1391	1656	0	680	378	55	2956	9	9	5	1	303	0	11648
21	87	2	3	29	43	45	9	36	3	51	67	96	114	124	81	413	5624	184	435	680	0	91	40	2231	11	5	3	2	98	0	10609
22	22	0	1	8	4	7	2	6	1	16	10	15	40	25	12	49	186	48	67	378	91	0	4	190	1	1	1	1	399	0	1506
23	14	0	1	4	7	10	2	3	1	7	5	9	15	10	4	21	77	15	23	55	39	4	0	797	3	0	0	0	6	0	1132
24	68	2	4	14	9	11	8	26	3	247	203	314	576	455	240	968	3864	718	1145	2956	2232	189	797	0	202	4	2	1	299	0	15567
25	0	0	0	0	1	0	0	1	0	1	1	2	2	1	4	18	3	4	9	11	2	3	202	0	0	0	0	2	0	268
26	9	0	0	2	2	1	0	0	0	1	3	1	3	2	1	4	14	2	4	10	6	9	0	4	0	0	0	0	1	0	69
27	5	1	0	0	1	2	1	0	0	2	1	1	2	1	1	2	7	2	2	3	3	1	1	2	0	0	0	0	0	0	41
28	3	0	0	0	1	1	0	0	0	1	0	1	1	0	1	2	7	1	3	1	2	1	0	2	0	0	0	0	0	0	28
29	14	0	0	4	7	7	1	5	1	15	8	13	44	29	14	66	224	56	79	303	99	398	8	299	2	1	0	1	0	0	1686
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1624	83	73	412	383	421	293	1020	89	1741	1755	1867	4075	5015	2703	11666	25059	7727	12104	11647	10609	1583	1135	15666	269	68	42	27	1685	0	120631

Table 4.2.2 (8) OD Matrices for Case 1 in 2007

BUS OD TABLE FOR CASE 1 IN 2007

ZONE NO.	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	TOTAL
1	0	17	10	32	45	33	36	83	3	16	20	8	8	4	6	30	133	9	26	13	31	5	4	14	0	10	6	2	1	0	607
2	17	0	1	1	1	0	0	1	0	1	0	0	0	0	1	1	2	1	0	1	1	1	0	0	1	0	0	0	0	0	31
3	10	1	0	1	1	1	0	1	0	1	0	0	0	0	0	2	4	0	1	2	2	0	0	1	0	0	0	0	0	0	31
4	32	0	1	0	4	11	2	9	2	3	6	16	1	2	7	23	25	2	3	3	11	3	2	4	0	1	0	0	1	0	174
5	45	1	1	5	0	16	1	4	1	2	3	4	3	1	2	6	18	2	4	3	13	1	1	3	1	2	2	2	0	0	145
6	33	1	1	11	16	0	1	4	1	3	3	6	3	2	1	8	23	2	4	4	18	1	3	2	1	1	1	1	1	0	155
7	36	0	0	1	1	1	0	12	0	4	4	2	2	1	1	8	16	2	5	6	3	1	1	3	0	0	0	0	0	0	110
8	83	1	1	10	4	4	11	9	2	14	21	18	6	3	9	37	88	10	23	18	18	3	1	10	0	1	1	0	1	0	398
9	3	0	0	3	0	1	0	2	0	1	1	2	0	0	1	2	6	1	1	1	1	1	0	1	0	0	0	0	0	0	28
10	16	1	0	4	2	4	4	14	1	0	9	5	67	18	7	21	51	15	22	27	14	4	1	41	0	2	0	1	1	0	342
11	20	0	1	6	3	2	4	21	1	9	0	13	12	9	7	40	87	9	21	17	16	2	1	38	0	1	0	0	1	0	341
12	8	0	2	16	3	7	2	17	3	6	13	0	8	7	6	30	116	9	18	19	21	3	3	53	1	1	1	0	1	0	366
13	8	0	0	1	3	3	2	6	0	57	12	8	0	85	19	76	115	63	89	93	30	10	3	95	1	2	2	1	4	0	788
14	4	0	0	2	1	1	1	3	0	18	10	7	85	0	37	125	173	124	146	83	35	7	2	94	0	1	1	0	3	0	963
15	8	1	0	6	2	2	1	9	1	6	7	6	19	37	0	112	117	26	51	31	22	3	2	50	1	1	0	1	2	0	524
16	36	1	2	24	6	7	8	37	2	21	39	30	76	125	112	0	781	124	294	151	105	14	5	217	1	4	1	1	6	0	2224
17	133	3	4	25	16	23	16	88	7	51	87	110	116	173	117	781	0	248	549	470	864	49	18	816	5	10	6	4	20	0	4809
18	9	1	0	2	2	3	2	10	1	15	9	10	62	124	26	124	248	0	354	256	63	14	3	145	0	2	1	0	6	0	1481
19	26	1	1	3	3	4	6	23	1	22	21	17	89	146	62	294	549	354	0	318	110	21	6	241	1	3	2	2	8	0	2323
20	13	1	2	3	4	4	5	19	1	27	17	20	93	83	31	151	470	256	318	0	153	83	8	437	2	4	2	1	27	0	2235
21	31	1	2	12	13	18	3	18	1	14	16	21	30	35	21	105	864	52	110	154	0	22	9	455	2	4	2	2	8	0	2024
22	5	1	0	3	1	1	1	3	0	4	2	4	10	7	3	16	49	14	20	83	22	0	0	31	1	0	0	0	31	0	311
23	4	0	0	2	1	3	0	2	0	1	1	3	3	2	2	4	18	4	6	8	9	0	0	147	1	0	0	0	0	0	221
24	14	1	1	4	3	2	3	10	1	41	38	53	95	94	50	218	816	144	241	437	456	31	148	0	45	2	1	1	19	0	2969
25	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	1	5	0	1	2	2	1	0	45	0	0	0	0	0	0	61
26	10	1	0	1	1	1	0	1	0	1	1	2	2	1	1	4	9	2	3	5	3	1	0	2	0	0	0	0	0	0	52
27	6	0	0	0	2	1	1	1	0	0	1	0	2	1	0	2	6	1	2	1	3	0	0	1	0	0	0	0	0	0	31
28	2	0	0	1	3	1	0	0	0	0	0	0	1	0	1	1	4	0	3	1	1	0	1	1	0	0	0	0	0	0	21
29	1	0	1	0	0	2	0	1	0	1	1	1	3	3	2	5	20	6	7	27	8	31	0	26	0	0	0	0	0	0	140
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	608	35	31	178	148	156	109	399	36	338	341	368	786	964	524	2226	4805	1480	2322	2233	2025	312	222	2967	64	52	29	20	141	0	23905

TRUCK OD TABLE FOR CASE 1 IN 2007

ZONE NO.	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	TOTAL
1	0	117	71	207	353	195	246	575	29	139	196	74	64	35	77	269	1063	58	208	62	198	29	12	104	0	3	1	0	1	0	4386
2	117	0	2	3	5	3	1	3	1	2	3	5	2	1	2	8	27	4	6	6	7	1	1	4	0	0	0	0	0	0	214
3	71	2	0	5	10	4	1	4	1	3	4	10	2	0	2	12	38	4	9	8	10	2	1	5	0	0	0	0	0	0	208
4	207	3	5	0	24	73	7	46	11	28	49	95	14	13	24	123	192	13	25	15	91	12	7	21	0	1	0	0	0	0	1106
5	354	5	10	24	0	128	5	21	2	18	23	41	10	9	17	74	313	11	19	14	67	16	7	31	1	0	1	2	0	0	1023
6	195	3	4	73	128	0	7	34	5	27	35	66	15	12	25	103	170	15	26	21	96	19	11	34	0	0	0	0	1	0	1126
7	246	1	1	7	5	7	0	36	1	33	24	18	16	7	17	63	145	21	44	36	34	5	2	15	0	0	0	0	0	0	784
8	576	3	4	46	21	33	36	0	8	98	111	108	46	27	74	290	636	90	189	131	140	15	8	61	0	1	0	0	0	0	2730
9	29	1	1	11	2	6	2	8	0	5	8	17	2	2	4	20	63	7	14	12	14	2	1	5	0	0	0	0	0	0	236
10	139	2	3	28	19	27	33	96	5	0	104	89	456	210	91	281	647	201	289	306	155	29	9	369	0	1	0	0	1	0	3570
11	196	3	5	48	23	36	24	110	8	104	0	129	148	120	88	416	935	129	275	198	200	20	10	367	0	1	0	0	0	0	3583
12	74	6	9	96	41	66	18	108	17	70	129	0	106	106	73	380	1187	129	238	204	258	27	22	482	1	0	0	0	0	0	3843
13	64	2	2	14	10	16	16	46	2	455	148	106	0	726	221	860	1298	696	966	968	314	43	15	777	1	1	0	0	2	0	7738
14	36	1	0	13	9	12	7	28	2	210	120	106	726	0	364	1191	1922	1061	1356	940	425	72	14	828	0	1	1	0	2	0	9435
15	77	2	3	24	17	24	17	74	4	91	88	74	221	365	0	906	1267	321	574	379	272	33	9	483	1	0	0	1	0	0	5317
16	269	8	12	123	75	103	63	260	20	281	416	380	840	1190	908	0	6721	1352	2725	1720	1242	137	38	2020	2	0	1	1	1	0	20925
17	1062	27	37	192	113	170	148	636	62	647	935	1188	1299	1922	1267	6720	0	2760	8456	6832	7248	461	118	8029	7	2	1	1	7	0	45341
18	58	3	5	13	11	15	21	90	7	202	129	126	666	1061	322	1362	2760	0	3738	2478	620	169	18	1230	1	1	0	0	2	0	14098
19	208	6	9	24	19	26	44	189	15	289	275	238	956	1356	574	2725	5456	2738	0	3204	1286	226	33	2134	2	1	1	0	3	0	22036
20	63	6	9	15	15	21	38	130	12	306	198	204	958	940	379	1720	4833	2477	3204	0	1495	1019	42	3164	3	1	1	0	11	0	21252
21	198	7	9	91	67	96	34	141	14	154	200	258	314	425	272	1242	7246	620	1285	1495	0	166	52	4814	4	1	0	1	3	0	19208
22	29	1	2	12	15	19	6	16	1	29	20	27	84	72	33	136	461	169	227	1019	165	0	10	732	1	0	0	0	27	0	3311
23	12	1	1	8	7	11	2	7	2	9	10	22	14	15	8	39	118	19	33	41	52	10	0	2071	1	0	0	0	0	0	3513
24	105	4	5	21	31	34	15	51	5	369	367	483	777	828	483	2020	8028	1230	2133	3155	4813	732	2071	0	174	1	1	0	24	0	27960
25	0	0	0	0	1	0	0	0	0	1	0	0	1	0	1	2	7	0	3	3	3	1	1	174	0	0	0	0	0	0	198
26	3	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1	2	1	1	1	1	0	0	2	0	0	0	0	0	0	15
27	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2	1	0	1	0	1	0	0	1	0	0	0	0	0	0	9
28	0	0	0	0	0	2	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	6
29	1	0	0	0	0	1	0	0	0	0	0	0	2	2	0	1	7	3	3	11	2	29	0	23	0	0	0	0	0	0	85
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4389	214	209	1099	1024	1126	785	2728	236	3570	3582	3842	7739	9434	5315	20926	45344	14096	22037	21249	19209	3014	2512	27949	199	18	8	5	85	0	222240

Table 4.2.2 (9) OD Matrices for Case 1 in 2007

ALL VEHICLES OD TABLE FOR CASE 1 IN 2007

ZONE NO.	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	TOTAL
1	0	251	139	366	626	420	490	1040	49	280	376	144	129	66	132	477	2097	118	396	191	449	98	57	269	0	80	45	23	18	0	8824
2	251	0	6	6	8	4	2	6	1	4	5	9	4	1	3	13	46	7	10	16	14	3	2	8	1	2	1	0	0	0	432
3	139	6	0	10	26	8	3	7	1	6	7	20	3	0	3	23	70	7	16	24	21	6	2	14	0	2	1	1	1	0	420
4	366	6	10	0	47	139	14	106	40	56	104	264	25	21	46	226	376	23	44	36	173	37	21	59	1	11	4	6	6	0	2245
5	626	9	26	47	0	223	10	36	6	39	41	73	28	20	36	140	242	26	44	52	187	27	26	61	3	21	16	17	8	0	2076
6	420	6	9	139	224	0	12	56	10	63	59	114	36	25	42	180	328	32	54	68	234	39	40	56	1	16	11	10	12	0	2279
7	490	2	2	14	9	12	0	134	2	81	56	34	12	12	27	111	262	33	72	74	59	11	7	39	0	2	3	1	1	0	1552
8	1041	7	7	105	36	54	133	0	19	228	357	281	94	44	141	544	1272	144	322	248	246	38	19	126	1	10	5	2	8	0	5530
9	49	1	1	40	5	10	3	19	0	9	19	51	3	5	6	33	116	11	22	23	23	8	3	13	0	0	2	0	1	0	472
10	280	4	5	51	41	54	81	227	10	0	235	127	1490	416	184	482	1184	347	500	594	282	76	27	948	1	16	8	6	21	0	7675
11	376	5	10	102	42	58	57	356	19	235	0	345	293	213	171	923	2095	211	498	371	361	48	24	839	1	11	5	3	12	0	7683
12	144	10	18	264	72	116	34	280	52	127	345	0	192	173	128	720	2672	208	404	413	482	72	46	1222	5	12	9	7	19	0	8245
13	129	4	3	27	28	36	32	94	3	1490	294	191	0	1977	432	1664	2458	1362	1960	2014	604	200	67	2129	4	32	20	10	66	0	17319
14	66	1	0	21	20	24	12	46	5	416	214	173	1977	0	670	2748	3800	2761	3267	1806	733	148	40	1936	2	19	12	5	46	0	21162
15	132	4	4	44	34	43	27	142	6	163	171	128	432	871	0	2662	2671	590	1159	682	468	69	23	1068	3	9	6	6	21	0	11648
16	477	14	21	221	141	179	111	543	34	481	923	720	1664	2744	2663	0	17610	2643	5439	3207	2235	280	97	4386	8	39	24	16	83	0	48006
17	2096	46	69	370	242	328	262	1272	114	1184	2096	2671	2461	3800	2671	17608	0	5345	12131	10147	19086	1002	333	17247	38	135	83	60	333	0	104129
18	118	6	9	23	26	33	33	144	11	348	211	209	1359	2761	592	2643	5346	0	8056	5662	1078	306	62	2970	4	26	13	9	85	0	32142
19	397	11	15	43	42	55	72	322	23	499	497	402	1962	3257	1169	6438	12131	8054	0	7046	2340	422	102	4939	10	43	25	17	119	0	50452
20	192	16	25	36	54	68	72	249	23	594	371	415	2013	1806	682	3208	10148	5662	7046	0	3149	1986	190	10038	16	69	33	16	441	0	48618
21	450	14	20	174	188	234	69	246	23	282	359	481	604	730	467	2236	19084	1077	2340	3151	0	432	163	9963	21	54	28	23	143	0	43949
22	98	3	5	38	25	38	12	38	3	76	49	73	201	146	69	283	1002	307	421	1987	432	0	19	1131	3	5	4	4	567	0	7039
23	57	2	3	21	27	40	6	18	4	27	23	47	56	42	22	99	332	83	102	189	161	19	0	3867	5	2	1	1	8	0	5183
24	270	9	14	59	56	56	39	126	14	948	840	1222	2130	1925	1087	4388	17247	2969	4839	10038	9964	1130	3867	0	466	21	14	9	399	0	64169
25	0	1	0	1	2	1	0	1	0	2	1	3	3	4	2	8	37	4	10	17	20	4	4	466	0	0	0	0	2	0	592
26	81	2	2	11	20	10	2	7	0	14	11	14	30	19	10	40	123	26	43	72	53	5	2	22	0	0	0	0	2	0	631
27	46	1	0	5	16	12	4	5	1	9	6	9	20	11	7	25	83	14	25	29	20	4	2	14	0	0	0	0	1	0	377
28	23	1	0	5	16	10	1	2	0	6	3	7	10	4	6	16	61	9	18	16	22	3	2	10	0	0	0	0	1	0	253
29	19	0	1	8	8	12	1	8	1	21	12	19	64	45	21	81	332	86	118	441	144	668	8	399	2	2	1	2	0	0	2421
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8852	441	419	2248	2070	2276	1684	5527	474	7672	7684	8246	17315	21160	11648	48009	104127	32138	50453	48612	43949	7040	5185	84167	595	632	374	252	2423	0	505542

Table 4.2.2 (10) OD Matrices for Case 1 in 2017

P. CAR OD TABLE FOR CASE 1 IN 2017

ZONE NO.	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	TOTAL
1	0	106	45	115	199	152	148	433	9	96	126	63	55	21	41	174	807	44	142	126	181	98	45	141	0	73	40	23	4	0	3505
2	106	0	2	3	3	2	0	2	1	2	1	5	0	1	1	5	20	2	5	14	6	3	2	4	0	2	1	1	0	0	194
3	45	2	0	7	8	3	1	4	1	2	3	9	1	1	2	7	30	4	6	18	8	4	2	9	0	2	1	1	0	0	181
4	115	3	7	0	19	62	7	68	25	21	55	192	13	8	16	90	183	9	18	28	79	37	17	42	1	11	8	6	2	0	1142
5	199	3	8	29	0	72	4	15	2	19	16	29	16	9	14	66	139	14	22	47	103	11	25	13	0	24	17	17	2	0	904
6	152	1	3	62	73	0	4	21	2	21	19	42	17	11	18	72	136	15	24	52	113	21	31	18	0	12	11	11	3	0	964
7	148	1	1	7	3	4	0	102	0	37	25	13	16	3	9	38	98	12	22	42	20	9	4	20	0	3	2	1	1	0	641
8	433	2	4	68	16	21	101	0	9	132	258	204	56	17	67	284	681	62	133	148	100	34	14	83	1	11	7	4	4	0	2944
9	9	1	1	25	2	2	0	9	0	2	7	27	1	1	2	8	37	3	5	15	7	3	1	8	0	1	0	1	0	0	171
10	96	2	2	21	18	22	37	131	2	0	102	51	1034	153	55	166	448	128	168	351	96	52	20	504	0	15	9	7	5	0	3699
11	126	2	3	55	15	19	25	258	7	102	0	199	134	69	66	435	991	63	181	164	122	34	14	429	0	11	6	4	4	0	3038
12	63	5	9	192	29	42	13	204	27	51	199	0	84	80	49	336	1467	73	158	279	197	82	29	755	0	17	12	9	7	0	4436
13	55	0	1	13	16	17	16	66	1	1034	134	84	0	925	161	678	1090	519	795	1403	250	121	45	1258	1	36	22	12	24	0	8776
14	21	1	1	8	9	11	3	17	1	153	69	60	924	0	399	1288	1529	1282	1609	768	281	81	30	969	2	21	13	7	15	0	9472
15	41	1	2	16	15	17	9	68	1	56	65	49	162	399	0	1858	1207	210	491	284	148	43	16	822	0	11	7	4	7	0	5409
16	174	5	8	90	66	72	38	284	8	166	435	337	677	1288	1859	0	10226	1083	3241	1497	943	150	67	2271	3	48	31	20	31	0	24948
17	807	28	29	183	119	135	98	681	37	448	991	1467	1090	1529	1207	10226	0	2160	5931	8129	10540	661	245	9610	15	166	104	76	124	0	55828
18	44	2	4	10	14	15	12	51	3	128	63	74	519	1282	210	1083	2160	0	4388	2905	380	149	48	1577	1	22	18	10	28	0	15210
19	142	5	6	18	21	24	22	134	5	168	181	156	796	1508	492	3341	5931	4389	0	3698	951	224	75	2618	2	51	31	18	42	0	25048
20	126	13	18	29	47	51	43	147	10	351	165	279	1403	768	283	1498	8130	2904	3698	0	1612	1190	240	7565	7	130	64	33	164	0	30868
21	181	7	8	79	103	113	29	100	7	96	122	197	251	281	148	963	10560	380	951	1612	0	298	110	4181	6	61	32	24	46	0	20797
22	96	3	5	37	10	21	9	34	3	52	34	62	131	81	43	180	861	149	224	1190	298	0	13	385	1	7	6	4	190	0	3929
23	46	2	2	16	26	31	4	14	1	19	14	29	45	29	16	67	248	48	75	240	110	13	0	1570	2	4	2	2	2	0	2674
24	141	5	8	42	13	18	20	83	6	506	429	766	1259	969	822	2271	8010	1577	2618	7666	4181	385	1570	0	93	21	15	10	87	0	33788
25	0	0	0	1	0	0	1	1	0	0	0	0	1	2	0	3	15	1	3	7	6	1	3	93	0	0	1	0	0	0	139
26	73	2	2	11	24	13	3	10	1	15	10	17	38	21	11	47	167	31	52	129	61	7	3	21	1	0	0	0	2	0	770
27	41	1	1	8	17	11	2	7	0	9	6	12	23	13	6	31	104	18	30	65	22	5	3	15	0	0	0	0	1	0	461
28	23	1	1	6	16	12	1	5	0	7	4	9	12	7	4	21	76	10	18	34	24	4	1	10	0	0	0	0	1	0	307
29	6	0	0	2	2	3	1	4	0	8	4	7	24	14	7	31	124	28	40	164	47	190	3	86	0	3	1	1	0	0	802
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3507	196	181	1144	902	965	642	2943	169	3699	3537	4437	8778	9470	5409	24947	55832	15208	25049	30868	20796	3928	2676	33785	137	773	461	306	799	0	261545

TAXI OD TABLE FOR CASE 1 IN 2017

ZONE NO.	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	TOTAL
1	0	111	52	122	240	160	168	498	7	80	106	50	44	16	31	135	602	31	101	86	127	55	27	124	1	13	7	3	16	0	3016
2	111	0	2	1	3	1	0	2	0	1	1	3	1	1	1	3	13	2	2	8	4	1	0	4	0	0	0	0	1	0	166
3	52	2	0	6	8	3	0	3	1	2	3	8	1	1	1	6	23	2	5	12	6	2	2	7	0	0	0	0	1	0	155
4	122	1	6	0	17	62	6	57	22	17	48	174	11	6	13	75	163	8	13	21	83	21	11	33	2	1	1	0	7	0	971
5	240	3	8	17	0	76	3	13	2	13	12	26	11	7	11	48	89	11	15	33	76	9	17	17	1	4	4	3	10	0	779
6	160	1	3	62	77	0	3	17	3	17	17	40	13	7	12	57	108	11	18	37	84	18	22	22	1	2	1	1	11	0	825
7	168	0	1	6	3	3	0	79	0	31	21	11	12	3	8	30	77	9	17	31	14	6	2	15	0	1	0	0	2	0	549
8	498	2	3	57	12	18	79	0	7	113	217	176	46	14	57	237	656	39	107	110	79	19	9	63	2	1	1	0	10	0	2532
9	7	1	1	22	2	3	0	7	0	3	5	25	1	1	2	7	33	2	5	9	5	1	1	4	1	0	0	0	0	0	149
10	80	0	2	17	13	17	31	113	2	0	92	46	935	136	49	144	376	111	144	300	75	32	12	420	0	3	1	1	22	0	3174
11	106	1	3	48	12	17	21	217	5	92	0	182	118	61	59	388	869	55	157	134	104	20	10	349	2	1	1	1	11	0	3044
12	60	3	9	174	26	41	11	178	25	46	182	0	73	51	42	301	1302	61	133	227	170	37	22	631	3	2	2	2	20	0	3822
13	44	1	1	11	11	12	13	46	1	936	118	73	0	827	144	596	915	457	698	1241	200	83	27	1040	4	4	2	1	65	0	7670
14	16	1	1	6	7	7	3	14	1	136	60	51	828	0	365	1137	1317	1136	1334	867	238	51	17	781	4	3	3	0	40	0	8214
15	31	1	1	13	11	12	8	56	2	49	59	42	143	356	0	1380	1656	185	437	240	127	25	10	424	2	1	0	0	19	0	4689
16	135	3	5	76	49	57	30	237	7	144	388	301	596	1138	1379	0	8915	949	2946	1283	818	110	44	1833	9	6	4	2	84	0	21548
17	602	13	23	153	89	108	77	556	33	376	870	1302	916	1317	1068	8915	0	1849	5161	7083	9352	410	160	7188	41	21	12	11	328	0	48611
18	21	2	2	8	10	11	9	39	2	111	54	61	457	1136	185	949	1850	0	3870	2614	316	99	28	1271	5	4	2	1	76	0	13202
19	102	2	5	13	15	18	17	107	5	145	157	133	699	1334	437	2946	5150	3870	0	3307	820	147	46	2111	10	6	4	2	115	0	21723
20	88	8	12	21	33	37	30	110	9	300	133	227	1241	667	241	1282	7084	2615	3306	0	1250	926	147	6330	23	17	9	4	494	0	26642
21	127	4	6	63	75	85	14	79	5	76	104	178	200	238	127	818	9352	315	820	1250	0	181	71	3748	20	8	4	3	130	0	18090
22	56	1	2	21	9	18	6	19	1	32	20	37	83	50	25	111	410	99	147	926	181	0	10	424	3	1	1	0	704	0	3396
23	22	1	1	11	17	22	2	10	0	12	10	22	27	18	10	43	160	29	46	147	72	10	0	1658	6	2	0	0	10	0	2273
24	124	4	7	34	17	22	15	63	4	420	349	631	1040	781	423	1834	7188	1270	2111	6330	3748	424	1658	0	439	5	4	2	443	0	29290
25	1	0	0	2	1	1	0	1	1	0	2	2	4	4	2	9	41	6	10	23	20	3	7	439	0	0	0	0	3	0	582
26	14	0	0	1	4	2	1	1	0	2	1	2	4	3	1	6	21	4	6	17	8	1	1	5	1	0	0	0	1	0	107
27	7	0	0	1	3	2	0	1	0	1	1	3	2	3	0	3	13	1	4	9	4	1	0	4	0	0	0	0	1	0	64
28	3	0	0	0	4	1	0	1	0	0	1	2	1	0	0	2	10	1	3	5	3	0	0	4	0	0	0	0	1	0	40
29	18	1	1	8	10	11	2	10	1	22	12	20	65	40	19	83	329	76	116	493	130	704	9	443	3	2	0	1	0	0	2628
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3017	167	167	972	778	827	549	2532	146	3176	3043	3820	7571	8215	4690	21647	48012	13204	21721	26642	18092	3396	2270	29292	583	108	63	38	2627	0	227265

Table 4.2.2 (11) OD Matrices for Case 1 in 2017

BUS OD TABLE FOR CASE 1 IN 2017

ZONE NO.	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	TOTAL
1	0	15	9	22	36	26	23	74	0	17	25	12	10	5	8	39	155	9	30	19	32	10	4	18	0	9	5	3	1	0	616
2	15	0	0	0	1	0	0	0	0	1	0	1	0	0	1	1	5	1	1	3	1	1	0	1	0	1	0	0	0	0	34
3	9	0	0	1	2	0	0	1	0	0	1	1	0	0	0	2	6	1	1	3	2	0	0	1	0	0	0	0	0	0	31
4	22	0	1	0	6	10	2	11	2	4	10	24	3	2	7	31	37	3	4	5	17	3	3	5	1	1	1	1	1	0	216
5	36	1	1	5	0	13	0	4	0	3	3	6	3	1	2	7	23	3	4	6	15	2	3	3	0	3	2	2	0	0	151
6	26	0	1	10	13	0	1	5	1	4	4	8	3	2	2	9	27	3	4	6	18	3	5	3	0	0	1	1	0	0	160
7	23	0	0	2	1	0	0	10	0	6	4	3	3	1	2	7	21	3	6	8	5	1	0	3	0	0	1	1	0	0	111
8	74	1	1	10	4	5	10	0	1	21	29	28	10	4	13	56	127	14	30	33	23	5	3	13	0	2	1	0	1	0	519
9	0	0	0	2	0	1	0	1	0	1	1	3	0	0	1	2	8	1	2	3	1	0	0	2	0	0	0	0	0	0	29
10	17	1	0	6	3	4	6	20	1	0	17	11	118	30	11	40	98	30	39	73	23	8	2	77	0	2	2	0	2	0	660
11	25	0	1	10	3	4	3	30	1	16	0	27	26	16	13	74	168	15	40	36	27	6	3	71	0	1	1	0	1	0	616
12	12	1	1	24	6	9	3	27	3	11	27	0	18	15	10	67	243	18	38	58	40	8	6	116	1	2	1	1	1	0	765
13	10	0	0	3	3	3	3	10	0	118	25	18	0	133	32	138	228	101	151	253	55	22	6	183	0	4	2	1	8	0	1506
14	5	0	0	2	1	1	1	4	0	30	16	15	133	0	61	217	302	193	243	161	66	14	6	166	1	2	1	1	4	0	1065
15	8	0	0	8	2	2	2	13	1	11	13	10	32	61	0	211	218	44	92	65	35	6	3	93	1	1	1	0	2	0	935
16	39	1	2	31	7	9	8	66	2	40	74	68	136	217	211	0	1858	221	569	333	210	32	13	426	2	6	4	3	8	0	4276
17	155	6	6	37	23	27	21	127	8	99	167	243	228	302	218	1858	0	445	1044	1447	1839	109	41	1599	11	17	10	8	29	0	9622
18	9	1	1	3	3	3	3	13	1	30	15	19	101	192	45	220	445	0	603	505	92	29	7	264	2	4	1	1	4	0	2620
19	30	1	2	4	4	4	4	31	1	36	40	36	181	243	92	659	1044	603	0	869	210	44	11	460	2	6	4	2	11	0	4309
20	19	3	3	4	6	6	8	33	3	73	96	57	253	181	64	323	1447	505	869	0	302	205	27	997	5	11	4	4	45	0	5283
21	32	2	1	17	16	18	4	24	1	23	27	40	56	66	36	210	1839	92	210	302	0	42	18	797	4	6	3	2	11	0	3595
22	10	0	1	3	2	3	1	4	0	8	5	8	22	14	6	22	109	29	44	205	42	0	2	68	1	0	2	0	54	0	676
23	4	0	0	3	3	5	0	3	1	2	3	6	6	5	3	12	41	7	11	27	16	2	0	298	2	1	0	0	1	0	462
24	18	1	1	5	3	3	3	13	2	77	71	116	183	166	92	426	1600	264	460	998	796	68	298	0	100	2	2	1	29	0	5799
25	0	0	0	1	0	0	0	1	0	0	0	1	0	1	1	2	11	2	2	9	4	1	2	100	0	1	0	0	0	0	135
26	9	1	0	1	3	1	0	2	0	2	1	1	4	1	1	7	17	4	6	10	5	0	1	3	0	0	0	0	1	0	81
27	5	0	0	1	2	0	1	1	0	1	1	1	2	2	1	4	10	2	3	6	3	1	0	2	0	0	0	0	0	0	48
28	3	0	0	0	2	1	1	0	0	0	1	1	1	0	0	2	9	1	2	3	2	0	1	1	0	0	0	0	0	0	32
29	1	0	0	1	1	0	0	1	0	2	1	2	5	4	2	8	29	8	12	45	11	54	1	29	0	0	0	0	0	0	217
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	616	34	31	215	166	158	110	519	29	839	617	766	1506	1641	934	4274	9626	2622	4308	5296	3592	675	463	5799	133	83	49	32	216	0	45030

TRUCK OD TABLE FOR CASE 1 IN 2017

ZONE NO.	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	TOTAL
1	0	178	98	328	587	261	304	1048	33	189	268	124	104	49	165	438	1571	84	292	136	259	54	20	164	1	4	3	0	1	0	6703
2	178	0	2	7	10	5	1	7	1	4	5	12	2	1	4	16	56	6	12	18	12	3	2	8	0	0	0	0	0	0	372
3	98	2	0	9	17	6	1	9	1	6	7	16	3	2	4	21	67	8	14	21	15	2	2	10	0	0	0	0	0	0	341
4	328	7	9	0	45	135	15	107	16	56	92	207	30	22	48	259	405	26	49	45	167	26	19	43	0	1	0	0	0	0	2186
5	587	10	16	45	0	198	8	40	4	29	38	75	19	12	26	130	199	16	30	33	103	27	15	56	1	2	0	0	1	0	1717
6	261	5	7	134	198	0	10	64	6	41	55	116	25	16	38	177	289	21	42	45	144	34	19	59	2	0	0	1	0	0	1813
7	304	1	1	15	8	10	0	65	2	30	35	29	27	11	25	104	239	39	69	89	60	9	3	28	0	0	0	0	0	0	1210
8	1049	8	9	106	40	64	65	0	12	191	218	240	99	50	145	603	1379	174	384	341	265	34	21	112	0	0	0	0	0	0	5607
9	34	1	1	16	0	8	1	12	0	8	10	24	4	2	6	28	88	8	19	23	18	2	2	7	0	0	0	0	0	0	327
10	189	4	5	66	29	41	50	490	8	0	185	128	818	319	145	496	1146	363	482	788	240	62	16	653	1	1	0	0	1	0	6363
11	268	5	8	92	36	56	36	215	10	186	0	234	262	182	141	736	1656	205	486	392	312	37	20	834	1	0	0	1	0	0	6186
12	124	12	15	207	74	115	29	240	24	128	234	0	209	178	133	757	2367	226	448	578	452	56	48	962	1	0	0	0	1	0	7616
13	186	2	3	30	18	25	27	99	4	818	262	209	0	1092	362	1469	2501	1045	1578	2492	567	170	31	1456	2	1	0	0	2	0	14360
14	49	2	2	21	13	18	11	51	2	319	183	177	1092	0	634	1981	3202	1565	2129	1754	746	124	27	1448	1	1	1	0	1	0	16474
15	105	4	4	48	26	37	28	145	5	145	141	134	352	534	0	1594	2230	507	962	746	420	59	17	853	1	0	0	0	1	0	9085
16	428	17	21	250	129	177	104	603	28	498	736	757	1469	1981	1594	0	13048	2353	4985	3738	2336	273	88	3929	4	1	0	1	3	0	39568
17	1572	66	86	405	199	290	219	1379	88	1145	1656	2368	2500	3202	2230	13048	0	4808	9992	14039	12360	923	278	18639	15	4	2	2	11	0	88516
18	84	6	8	25	17	21	28	174	8	353	205	226	1045	1586	507	2352	4808	0	6494	4829	1035	303	37	2248	2	1	0	0	3	0	24414
19	292	13	14	49	36	42	89	384	19	452	460	447	1578	2129	961	4985	9993	4494	0	6569	2274	426	68	4015	4	1	1	1	5	0	39795
20	136	18	21	45	33	45	89	342	23	786	392	576	2492	1764	747	3738	14039	4828	6569	0	2851	2284	116	7184	8	2	1	1	20	0	49140
21	280	12	15	167	103	144	50	265	18	240	311	453	567	746	420	2335	12389	1036	2274	2851	0	292	92	8238	8	1	0	1	3	0	33261
22	54	2	3	26	27	34	9	33	2	82	38	56	169	124	59	274	923	303	426	2284	292	0	20	1466	2	0	3	0	43	0	6734
23	20	2	2	19	15	19	3	21	2	16	20	48	31	26	18	88	278	37	68	116	92	20	0	3606	3	0	0	0	1	0	4771
24	166	8	9	44	55	59	25	112	7	653	634	982	1457	1448	863	3928	15639	2248	4015	7184	8238	1467	3606	0	368	3	1	2	36	0	53426
25	1	0	0	0	2	2	0	0	0	1	1	1	2	1	1	4	15	2	4	8	8	2	2	368	0	0	0	0	0	0	425
26	4	0	0	1	2	0	0	0	0	0	0	1	0	1	0	2	8	1	2	1	0	0	3	0	0	0	0	0	0	0	24
27	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0	3	0	1	0	0	0	0	0	0	14
28	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	1	2	0	0	1	1	0	0	1	0	0	0	0	0	0	10
29	1	0	0	0	1	0	0	1	0	1	0	1	2	1	1	3	10	3	5	19	3	44	1	36	0	0	0	0	0	0	133
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6708	378	310	2154	1721	1812	1209	5606	325	8084	6164	7619	14358	15472	9087	39567	88517	24416	39794	49138	33260	6736	4770	83423	425	23	12	12	133	0	419561

Table 4.2.2 (12) OD Matrices for Case 1 in 2017

ALL VEHICLES OD TABLE FOR CASE 1 IN 2017

ZONE NO.	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	TOTAL
1	0	410	204	587	1062	599	643	2053	49	382	525	249	213	91	195	786	3135	168	565	367	599	215	96	447	2	99	56	29	24	0	13839
2	410	0	6	11	17	8	1	11	2	6	7	21	3	3	7	25	94	11	20	43	23	8	4	17	0	3	1	1	1	0	766
3	204	6	0	22	35	12	2	17	3	10	14	34	5	4	7	36	126	15	26	54	31	8	6	27	0	2	1	1	1	0	709
4	587	11	23	0	86	269	30	243	65	97	206	897	57	38	84	455	778	46	84	99	328	87	50	123	4	14	10	7	10	0	4485
5	1062	17	33	87	0	359	15	72	8	63	69	134	48	29	53	252	430	44	71	119	296	49	60	88	2	33	23	22	13	0	3551
6	599	7	14	268	361	0	18	107	14	83	95	206	58	38	70	315	569	60	88	140	399	76	77	102	3	14	13	14	14	0	3762
7	643	2	3	29	15	17	0	266	2	124	85	56	58	18	44	179	435	63	114	170	88	25	9	63	0	4	3	2	3	0	2511
8	2053	13	17	241	72	108	266	0	29	457	719	648	211	85	282	1180	2743	279	664	652	467	92	47	271	3	14	9	6	15	0	11602
9	80	3	3	66	9	14	1	29	0	14	23	79	6	4	11	46	166	14	31	45	31	6	4	19	1	1	0	1	0	0	676
10	382	7	9	98	63	84	124	454	13	0	376	236	2905	638	281	846	2068	622	933	1510	434	154	50	1654	1	21	12	8	33	0	13496
11	525	8	15	206	68	95	85	720	23	376	0	642	539	328	279	1633	3684	338	938	726	565	98	47	1463	3	13	8	6	16	0	13384
12	249	21	34	597	135	207	56	647	79	236	642	0	384	304	234	1461	5379	378	773	1140	859	163	106	2474	5	21	15	12	29	0	16639
13	214	3	5	57	47	57	59	211	6	2906	539	384	0	2977	689	2879	4734	2122	3222	5389	1072	406	109	3937	7	45	26	14	97	0	32212
14	91	4	4	37	30	37	18	86	4	638	328	303	2977	0	1349	4623	6360	4196	5215	5350	1331	270	79	3364	8	27	18	8	60	0	34805
15	185	6	7	86	54	68	44	282	9	261	278	235	689	1349	0	4743	4711	946	1972	1335	730	133	46	1892	4	13	8	4	29	0	20118
16	786	25	36	457	251	315	180	1180	45	846	1633	1463	2878	4624	4743	0	33747	4606	11831	6951	4306	595	212	8459	18	61	39	26	126	0	90340
17	3136	94	123	778	430	560	435	2743	166	2068	3684	5380	4733	6350	4711	33747	0	9262	22118	30698	33791	2103	724	33038	82	208	128	97	492	0	201877
18	168	11	15	45	44	50	62	277	14	622	337	380	2122	4196	947	4604	9263	0	13355	10863	1822	580	120	5360	10	41	21	12	116	0	55446
19	566	21	27	84	70	88	114	666	30	834	838	771	3223	6214	1972	11831	22118	13356	0	14243	4255	841	200	9204	19	64	40	23	173	0	90876
20	367	42	54	99	119	139	170	632	45	1510	726	1139	5389	3350	1306	6851	30700	10852	14242	0	5916	4406	530	22076	43	160	78	42	723	0	111933
21	600	25	30	328	297	360	88	466	31	435	564	860	1074	1331	730	4306	33790	1823	4255	5915	0	813	289	16964	38	76	39	30	190	0	75747
22	216	6	11	87	48	76	25	90	6	154	97	163	405	289	133	598	2103	580	841	4604	813	0	45	2343	7	8	12	4	991	0	14734
23	96	5	8	49	61	77	9	48	4	49	47	105	109	78	47	210	725	121	200	530	290	45	0	7232	13	7	2	2	14	0	10180
24	448	18	25	125	88	102	63	271	19	1655	1483	2474	3939	3364	1890	8459	33037	5359	9204	22077	16963	2344	7232	0	1000	32	22	15	696	0	122303
25	7	0	0	4	3	3	1	3	1	1	3	4	7	8	4	18	82	11	19	43	38	7	14	1000	0	1	1	0	3	0	1281
26	100	3	2	14	20	16	4	13	1	19	12	21	44	26	13	62	210	40	65	159	75	8	5	32	2	0	0	0	4	0	982
27	66	2	1	10	22	13	3	9	0	11	8	16	27	19	7	38	130	21	38	80	39	10	3	22	0	0	0	0	2	0	587
28	29	1	2	6	22	15	2	8	0	7	7	12	14	8	4	28	97	12	23	43	30	4	2	16	0	0	0	0	2	0	392
29	25	1	1	11	14	14	3	16	1	33	17	30	96	69	29	125	492	115	178	721	191	992	14	594	3	5	1	2	0	0	3780
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	13848	773	709	4485	3556	3762	2510	11600	669	13898	13361	16642	32213	34801	20120	90335	201896	55450	90872	111906	75740	14736	10179	122299	1278	987	585	388	3775	0	963391

Table 4.2.2 (13) OD Matrices for Case 2 in 2002

P.CAR OD TABLE FOR CASE 2 IN 2002

ZONE NO.	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	TOTAL
1	0	38	13	28	49	62	47	72	5	34	49	17	15	8	14	54	246	16	46	30	66	18	15	44	1	33	19	11	2	0	1052
2	38	0	0	0	0	1	0	0	0	1	0	1	0	0	1	1	5	1	2	3	2	0	0	1	0	1	1	0	0	0	59
3	14	0	0	1	2	0	0	1	0	0	1	2	0	0	0	2	7	1	1	3	3	1	0	2	0	0	1	0	0	0	42
4	29	0	1	0	2	9	1	4	4	5	12	35	4	1	4	17	36	3	3	5	18	6	4	8	0	2	3	2	0	0	217
5	49	0	2	2	0	14	0	2	0	6	4	6	4	3	3	16	28	4	6	7	29	2	4	3	0	10	5	6	2	0	216
6	62	1	0	9	14	0	1	1	1	8	6	12	5	5	5	21	41	6	7	11	39	5	10	6	0	4	5	5	1	0	291
7	48	0	0	1	0	1	0	9	0	12	8	3	4	1	2	10	27	2	7	8	6	2	1	6	0	1	1	1	1	0	162
8	72	0	1	4	2	1	9	0	1	26	41	25	6	3	10	37	87	9	18	14	16	4	2	12	0	2	1	1	0	0	397
9	5	0	0	0	0	0	1	0	0	1	2	7	0	0	1	4	11	1	2	3	2	0	1	2	0	0	0	0	0	0	48
10	34	0	1	4	5	8	12	20	0	0	56	22	397	98	27	77	202	53	81	96	53	19	9	238	0	9	6	5	4	0	1525
11	49	1	1	12	4	6	8	41	2	56	0	87	67	41	35	205	462	36	90	61	68	13	7	205	0	6	5	3	2	0	1662
12	18	1	1	35	5	12	3	25	7	22	86	0	31	27	19	121	526	30	59	59	84	19	10	291	0	9	5	5	3	0	1616
13	15	0	0	4	4	5	4	6	0	397	57	30	0	507	78	296	414	276	366	329	114	66	20	522	0	23	14	6	14	0	3545
14	8	0	0	2	3	4	1	3	0	88	42	27	507	0	221	637	749	696	787	264	133	34	15	475	0	15	8	5	9	0	4633
15	14	1	0	4	3	6	3	10	1	27	35	19	79	221	0	686	526	92	228	98	78	16	7	223	0	8	5	2	4	0	2404
16	64	1	2	17	16	21	10	37	4	76	205	123	296	637	686	0	3986	422	1389	467	381	89	27	904	1	27	17	12	17	0	9992
17	246	4	7	36	28	41	27	87	12	202	461	526	413	749	525	3986	0	1024	2436	1661	4886	213	97	3379	5	93	59	44	66	0	21305
18	17	1	1	3	4	6	3	8	1	53	37	30	275	696	92	422	1024	0	2219	1102	196	59	22	759	1	20	12	5	19	0	6687
19	46	2	1	3	6	7	6	19	1	81	90	59	364	788	228	1349	2435	2219	0	1214	409	77	32	1099	1	31	18	10	24	0	10459
20	30	3	3	5	7	11	8	14	3	96	61	68	329	264	98	467	1651	1101	1214	0	560	307	60	2309	2	42	19	9	72	0	8913
21	65	2	3	18	29	39	6	15	3	53	68	84	114	133	78	381	4887	196	409	561	0	115	53	2089	1	41	21	15	31	0	9611
22	19	0	1	6	3	5	2	4	0	19	14	19	46	33	16	58	213	68	77	307	115	0	3	126	1	5	2	2	87	0	1241
23	15	0	1	4	4	9	1	2	1	9	7	9	20	15	8	27	97	22	32	60	54	3	0	553	0	1	1	1	1	0	967
24	44	1	2	8	3	6	6	12	2	238	204	282	522	475	232	904	3380	759	1099	2309	2088	126	563	0	28	12	9	6	48	0	13358
25	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	5	1	1	2	1	1	0	28	0	0	0	0	0	0	42
26	33	1	0	3	9	5	1	2	0	10	6	9	23	14	8	27	94	20	31	42	41	5	1	12	0	0	0	0	1	0	398
27	19	0	1	3	6	8	0	2	0	6	4	6	14	8	5	17	58	12	17	19	22	2	1	9	0	0	0	0	1	0	227
28	11	1	0	1	6	5	1	1	0	4	3	5	7	5	2	12	44	6	10	9	15	2	0	6	0	0	0	0	2	0	159
29	2	0	0	0	2	1	0	1	0	4	3	3	14	10	4	17	67	19	24	72	31	87	1	48	0	1	1	1	0	0	413
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1057	59	42	217	217	290	160	399	48	1526	1662	1516	3546	4632	2402	9894	21305	6984	10660	8816	9509	1240	965	13359	41	398	239	157	413	0	101640

TAXI OD TABLE FOR CASE 2 IN 2002

ZONE NO.	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	TOTAL
1	0	27	10	15	39	36	33	47	5	27	39	13	11	6	11	39	178	10	33	15	44	9	9	38	0	5	3	1	8	0	713
2	27	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	4	0	0	2	1	0	0	2	0	0	0	0	0	0	39
3	10	0	0	1	1	1	0	0	1	0	1	1	0	0	1	1	5	1	1	2	2	0	0	2	0	0	0	0	0	0	31
4	16	0	1	0	1	6	0	3	2	3	10	28	1	2	2	12	25	1	3	4	11	2	1	7	0	1	0	0	1	0	144
5	39	1	1	1	0	12	1	1	0	3	3	4	3	2	3	10	18	3	3	4	10	2	2	5	0	2	1	1	3	0	147
6	36	0	1	5	12	0	0	1	0	6	5	10	3	3	4	16	29	3	5	8	27	3	7	6	0	1	0	0	4	0	196
7	33	0	0	0	1	0	0	5	0	9	6	3	3	1	2	7	18	3	4	4	5	1	0	4	0	0	0	0	1	0	110
8	47	0	0	3	1	0	6	9	0	15	28	18	4	2	7	26	62	6	12	9	10	2	1	8	0	0	0	0	1	0	267
9	5	0	1	2	1	0	0	0	0	1	2	5	0	0	0	2	7	1	1	2	0	0	1	0	0	0	0	0	0	0	33
10	28	0	1	3	2	6	9	14	1	0	50	19	365	78	24	88	173	45	70	79	41	11	6	195	1	1	1	1	13	0	1303
11	39	0	1	9	3	6	6	29	2	50	0	82	51	37	31	185	412	31	79	55	59	6	6	166	1	1	0	1	7	0	1349
12	13	1	2	28	4	10	3	18	6	19	81	0	26	24	17	110	478	24	52	54	72	11	6	232	1	1	1	0	11	0	1307
13	11	0	0	2	3	3	3	4	0	364	52	26	0	462	71	285	363	245	328	287	88	28	13	438	1	3	2	0	38	0	3090
14	6	0	0	2	2	3	1	2	0	78	36	24	462	0	197	567	656	526	704	228	109	19	9	381	1	2	1	0	27	0	4042
15	11	0	1	2	2	4	2	7	0	25	31	18	70	197	0	608	485	81	203	84	66	9	4	187	1	1	0	0	12	0	2090
16	39	1	1	12	10	16	7	26	2	88	184	110	266	567	607	0	3526	367	1234	400	324	34	17	727	3	4	2	2	47	0	8680
17	178	4	5	24	19	29	19	62	7	172	413	478	363	657	486	3526	0	885	2184	1417	4337	125	65	2861	12	11	8	5	186	0	18476
18	10	0	1	1	3	3	3	5	0	45	31	34	245	526	81	362	885	0	1957	985	156	35	14	603	2	3	2	0	51	0	6041
19	33	1	1	3	3	4	4	13	1	70	79	61	328	704	203	1234	2184	1957	0	1080	347	47	20	886	4	3	2	2	69	0	9312
20	18	2	2	4	4	8	4	9	1	79	59	64	287	228	84	399	1417	985	1080	0	456	222	41	1917	6	5	3	1	220	0	7595
21	44	1	2	11	29	27	5	10	2	41	58	73	88	109	65	325	4336	158	347	457	0	65	36	1947	8	5	3	2	86	0	8231
22	10	0	0	3	1	3	1	2	0	11	7	10	28	19	9	34	125	35	47	222	65	0	3	127	0	1	0	1	306	0	1089
23	9	0	0	2	2	7	0	1	0	6	5	8	12	10	4	18	65	15	20	40	36	3	0	543	1	1	0	0	6	0	814
24	38	2	2	6	5	6	4	8	1	196	166	233	438	380	187	726	2961	803	885	1917	1948	127	543	0	129	3	2	1	250	0	11666
25	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	3	12	2	4	5	9	0	1	129	0	0	0	0	1	0	171
26	6	0	0	1	1	1	0	0	0	2	1	0	3	2	1	4	12	2	3	5	5	1	1	3	0	0	0	0	1	0	55
27	3	0	0	0	1	1	0	0	0	1	0	0	2	1	0	3	8	2	2	3	4	0	0	2	0	0	0	0	1	0	33
28	2	0	0	0	1	1	0	0	0	1	1	1	0	1	0	1	7	0	2	1	2	0	0	1	0	0	0	0	1	0	22
29	8	0	0	1	3	4	1	1	1	13	7	11	37	27	12	48	186	51	68	220	86	306	8	250	1	1	0	1	0	0	1350
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	718	40	33	142	147	195	112	288	32	1303	1347	1307	3085	4045	2089	8602	18477	6041	9311	7595	8331	1069	812	11687	172	88	51	19	1350	0	88397

Table 4.2.2 (14) OD Matrices for Case 2 in 2002

BUS OD TABLE FOR CASE 2 IN 2002

ZONE NO.	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	TOTAL
1	0	12	7	16	25	25	20	33	0	10	14	6	5	3	5	21	80	6	17	7	19	3	3	9	0	7	3	1	1	0	359
2	12	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2	1	0	1	0	0	1	1	0	0	0	0	0	0	20
3	7	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	1	1	0	1	0	1	0	0	0	0	0	0	0	16
4	16	0	0	0	2	4	1	1	1	1	4	6	2	1	4	15	11	1	1	1	7	1	0	2	0	0	1	0	0	0	83
5	26	0	1	1	0	7	0	1	0	3	1	2	1	2	1	2	8	1	2	1	7	1	1	1	0	1	2	1	0	0	74
6	25	1	0	4	6	0	0	2	0	1	3	4	1	1	2	4	15	1	3	3	10	2	2	1	0	2	0	1	0	0	94
7	20	0	0	1	1	0	0	2	1	2	2	0	1	1	1	3	8	1	2	3	2	0	0	1	0	1	0	0	0	0	53
8	33	1	0	1	1	1	1	3	0	0	6	8	6	2	1	3	12	28	4	8	5	6	1	1	3	0	0	1	0	0	135
9	0	0	0	1	0	0	1	1	0	1	0	1	0	0	1	1	5	1	2	0	1	0	0	0	0	0	0	0	0	0	16
10	10	0	0	2	3	1	2	5	1	0	8	4	46	15	6	16	41	11	17	20	11	2	2	31	0	1	2	0	1	0	258
11	14	0	0	4	1	3	2	8	0	7	0	11	10	8	7	32	70	9	18	12	14	2	1	31	0	1	0	0	1	0	266
12	6	0	1	6	2	4	0	6	2	4	11	0	6	6	4	23	81	7	13	12	17	2	2	38	1	0	1	0	1	0	254
13	5	0	0	2	1	1	1	2	0	46	10	6	0	71	14	58	87	52	70	61	24	7	3	72	0	2	1	0	4	0	600
14	4	0	0	1	1	1	1	1	0	15	9	6	71	0	32	104	141	93	125	54	30	6	2	76	0	2	1	0	3	0	779
15	5	0	0	4	1	2	1	4	0	6	6	4	15	32	0	90	92	20	41	21	17	3	1	40	1	0	1	1	1	0	409
16	21	1	1	15	2	4	4	12	1	17	32	23	58	104	90	0	584	58	230	99	83	10	4	160	1	3	1	1	6	0	1654
17	80	2	2	11	8	14	8	28	6	41	70	81	87	141	91	584	0	202	424	304	668	34	16	601	3	9	6	3	17	0	3540
18	6	1	1	1	1	1	1	4	1	11	9	7	52	93	20	89	202	0	301	182	45	11	3	120	1	1	0	1	5	0	1169
19	17	1	0	2	2	3	2	8	2	17	18	14	70	126	42	230	424	301	0	216	89	14	6	187	1	4	1	1	7	0	1803
20	7	1	1	1	1	2	3	4	0	20	12	12	61	63	21	99	303	182	216	0	104	50	7	282	1	3	1	1	19	0	1496
21	19	0	1	7	7	10	3	6	1	11	14	17	24	30	17	83	668	48	89	103	0	16	7	409	2	3	2	2	7	0	1604
22	3	0	0	1	1	2	0	1	0	2	2	2	6	6	3	10	34	11	14	50	15	0	1	20	0	1	0	0	0	0	184
23	3	1	0	0	1	2	0	1	1	1	1	2	3	2	1	5	15	4	6	7	8	0	0	101	6	0	0	0	0	0	184
24	9	1	0	2	1	1	1	3	0	31	31	39	72	77	39	160	601	120	187	282	409	21	100	0	29	1	1	1	16	0	2236
25	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	3	1	1	1	1	0	0	29	0	0	0	0	0	0	39
26	7	0	0	0	2	1	0	0	0	1	1	0	2	2	0	3	9	1	4	3	3	1	0	1	0	0	0	0	1	0	42
27	4	0	0	1	1	1	0	0	0	2	0	0	2	1	1	1	6	0	2	1	2	0	0	1	0	0	0	0	0	0	25
28	1	1	0	0	1	1	0	0	0	0	0	1	3	0	1	1	3	1	1	2	1	0	1	1	0	0	0	0	0	0	17
29	1	0	0	0	1	1	0	0	0	1	1	1	3	3	1	5	16	5	7	19	7	25	0	15	0	1	0	0	0	0	112
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	361	24	16	84	74	91	54	134	16	258	268	255	600	778	408	1652	3638	1171	1800	1469	1601	212	165	2223	49	43	25	14	114	0	17498

TRUCK OD TABLE FOR CASE 2 IN 2002

ZONE NO.	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	TOTAL
1	0	62	25	66	141	96	84	151	13	84	121	46	37	21	48	187	582	36	120	30	102	17	10	60	0	2	1	1	0	0	2120
2	62	0	1	1	2	2	1	1	0	2	3	4	0	1	1	6	17	2	6	3	6	1	1	3	0	0	0	0	1	0	124
3	25	1	0	1	3	1	0	1	0	1	2	4	1	0	1	6	16	3	5	3	4	1	0	3	0	0	0	0	0	0	81
4	66	1	1	0	8	24	3	8	2	14	24	43	6	6	11	54	85	5	12	6	40	5	5	9	1	0	0	0	0	0	438
5	141	3	3	8	0	52	1	4	1	9	12	18	5	4	8	35	50	6	9	5	31	8	5	15	0	1	1	1	0	0	436
6	96	1	1	24	52	0	3	7	3	18	24	38	9	8	15	62	99	9	15	11	66	11	10	20	1	0	0	0	0	0	593
7	86	1	0	2	2	2	0	7	0	17	11	8	8	4	7	30	66	10	21	14	16	2	1	7	0	0	0	0	0	0	320
8	151	1	1	8	4	7	7	0	1	32	37	33	14	9	25	86	192	31	60	34	43	5	4	15	0	0	0	0	0	0	800
9	13	1	0	2	1	3	0	1	0	3	4	7	1	1	2	9	28	3	7	4	6	0	1	2	0	0	0	0	0	0	97
10	84	2	2	13	9	18	17	32	3	0	92	57	375	187	77	230	521	163	243	215	124	23	12	278	0	0	0	0	1	0	2778
11	121	3	1	24	12	24	12	37	4	92	0	109	125	110	77	353	774	119	238	144	168	17	13	278	0	1	0	0	0	0	2853
12	46	4	4	43	18	38	8	33	7	57	109	0	81	86	59	292	887	98	187	133	193	21	24	339	0	0	0	0	0	0	2768
13	38	0	1	6	5	16	8	14	1	374	125	82	0	907	180	650	983	558	758	834	237	64	17	552	0	1	1	0	1	0	6907
14	21	1	1	6	4	8	4	9	1	187	110	86	607	0	307	995	1569	854	1159	811	347	59	19	634	0	0	0	0	1	0	7600
15	46	1	1	12	8	15	7	25	2	77	78	59	179	307	0	730	995	251	472	280	213	26	10	357	0	0	0	0	1	0	4134
16	167	6	6	54	36	62	30	86	9	230	363	292	650	995	730	0	5084	1018	2159	1139	938	106	44	1437	1	2	0	0	1	0	15633
17	582	17	15	85	49	99	66	192	26	521	774	887	983	1588	995	5084	0	2260	4217	3124	5343	348	135	5759	5	3	1	0	6	0	33142
18	36	3	3	5	6	9	11	30	4	162	119	96	558	854	251	1019	2259	0	2346	1775	506	130	24	968	1	1	0	0	2	0	11180
19	120	5	3	11	9	16	21	60	7	243	238	187	758	1159	472	2158	4217	2348	0	2158	991	177	39	1589	2	0	0	0	3	0	17000
20	30	4	3	6	5	11	14	35	4	215	143	103	634	611	261	1139	3124	1775	2158	0	963	688	41	1911	2	0	2	1	8	0	13911
21	103	6	4	40	31	58	15	43	6	124	166	193	237	347	213	938	5344	506	991	964	0	123	58	4601	4	1	1	0	2	0	15116
22	17	1	1	5	8	11	2	4	1	23	17	20	85	59	26	106	345	131	177	667	124	0	12	501	0	0	0	0	23	0	2345
23	10	1	0	5	5	9	1	5	1	12	13	24	17	18	10	44	135	24	39	41	58	12	0	1420	1	0	0	0	1	0	1907
24	60	3	3	9	15	21	7	15	2	277	278	339	561	634	357	1437	5759	967	1589	1911	4601	501	1420	0	110	1	1	1	17	0	20898
25	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	1	5	1	2	2	4	0	0	110	0	0	0	0	0	0	128
26	2	0	0	0	1	0	0	0	0	0	1	0	1	0	0	1	2	1	0	1	1	0	0	1	0	0	0	0	0	0	12
27	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	7
28	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	5
29	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	8	2	3	4	2	23	0	19	0	0	0	0	0	0	68
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2123	127	81	437	435	593	322	800	98	2774	2865	2766	5604	7598	4133	15832	33144	11179	17002	13910	15112	2344	1906	20889	128	13	8	5	68	0	162386

Table 4.2.2 (15) OD Matrices for Case 2 in 2002

ALL VEHICLES OD TABLE FOR CASE 2 IN 2002

ZONE NO.	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	TOTAL
1	0	139	55	124	255	219	184	303	23	156	223	82	68	37	76	281	1088	68	216	85	231	47	37	161	1	47	26	14	11	0	4244
2	139	0	2	1	3	3	1	2	0	0	4	6	0	1	2	7	28	4	7	9	8	1	2	7	0	1	1	0	0	0	242
3	55	2	0	3	6	2	0	2	1	1	5	7	1	0	2	10	30	6	6	8	10	2	1	7	0	0	1	0	1	0	170
4	125	1	3	0	13	43	5	16	9	23	50	112	13	10	21	98	157	10	19	16	76	15	10	26	1	3	4	2	1	0	892
5	256	4	7	12	0	85	2	8	1	20	20	30	13	11	15	63	104	14	20	17	86	13	12	24	0	14	9	9	5	0	873
6	219	3	2	43	84	0	4	11	4	33	38	64	18	17	26	103	184	19	30	33	132	21	29	33	1	7	6	6	5	0	1174
7	186	1	0	4	4	3	0	23	1	40	27	14	16	7	12	50	119	16	34	29	28	5	2	18	0	2	1	1	2	0	645
8	303	2	2	16	8	9	25	0	2	72	114	82	26	15	45	161	389	49	98	82	74	12	8	38	0	2	2	1	1	0	1699
9	23	1	1	0	2	4	1	3	0	8	8	21	1	1	4	16	49	6	12	8	11	0	2	6	0	0	0	0	0	0	184
10	166	2	4	22	19	33	40	71	6	0	206	102	1183	368	134	399	937	272	411	410	229	55	29	742	1	11	9	6	19	0	5864
11	223	4	3	49	20	39	28	115	8	204	0	289	243	196	150	775	1718	195	425	257	306	38	28	660	1	9	5	4	10	0	6050
12	83	6	8	112	30	64	14	82	22	102	287	0	144	143	89	548	1971	167	311	268	366	63	44	890	2	10	8	5	15	0	5844
13	69	0	1	14	13	19	16	26	1	1181	244	144	0	1647	343	1269	1837	1130	1521	1311	463	145	53	1584	1	29	18	6	57	0	13142
14	38	1	1	11	10	16	7	15	1	368	197	143	1647	0	757	2303	3115	2069	2778	1187	619	118	46	1566	1	19	10	5	40	0	17064
15	76	2	2	22	14	26	13	46	3	136	150	100	343	757	0	2114	2078	444	944	463	373	54	22	817	2	9	6	4	18	0	9037
16	281	9	10	98	63	103	51	181	16	389	774	548	1269	2303	2113	0	13179	1895	5012	2106	1726	207	92	3228	6	36	20	15	70	0	35779
17	1086	27	29	186	104	183	120	369	50	936	1718	1972	1836	3115	2077	13179	0	4371	9231	6496	15234	717	313	12600	25	116	74	52	277	0	76463
18	89	5	6	10	14	19	18	47	6	271	196	157	1130	2069	444	1897	4370	0	6825	4044	906	235	63	2450	5	25	14	6	77	0	25377
19	216	9	6	19	20	29	33	100	11	411	425	311	1520	2776	948	6011	9230	6825	0	4687	1838	315	97	3760	8	38	21	13	103	0	38774
20	85	10	9	16	17	32	29	62	8	410	266	267	1311	1156	464	2104	6496	4043	4687	0	2083	1247	149	6419	11	50	25	12	319	0	31786
21	232	8	10	76	87	132	29	74	12	229	306	367	460	649	373	1727	15235	906	1836	2083	0	319	154	9046	15	50	27	19	128	0	34682
22	49	1	2	15	13	21	5	11	1	55	40	51	145	117	54	207	717	235	315	1246	319	0	19	774	1	7	2	3	440	0	4865
23	37	2	1	12	12	27	2	9	3	28	25	43	82	45	23	94	312	65	98	148	166	19	0	2817	2	2	1	1	8	0	3842
24	161	7	7	25	24	34	18	38	5	741	679	893	1583	1566	815	3227	12601	2449	3760	6419	9046	775	2616	0	296	17	13	9	331	0	48145
25	1	0	0	1	1	0	0	0	0	2	2	1	1	2	2	6	25	5	8	10	14	1	1	296	0	0	0	0	1	0	380
26	48	1	0	4	13	7	1	2	0	13	9	9	29	18	9	35	117	24	38	51	50	7	2	17	0	0	0	0	3	0	507
27	27	0	1	4	9	6	0	2	0	9	4	7	18	10	6	21	71	14	21	25	28	2	2	12	0	0	0	0	2	0	302
28	15	2	0	1	9	6	1	1	0	5	4	7	7	6	3	14	55	7	13	13	18	2	1	9	0	0	0	0	3	0	202
29	11	0	1	1	6	5	1	2	1	18	11	15	55	41	18	71	275	77	102	319	128	441	7	332	1	3	1	2	0	0	1943
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4259	249	172	880	873	1169	648	1801	194	5861	6032	5844	13136	17053	9032	35780	76464	25375	38773	31791	34553	4965	3838	48148	381	507	303	196	1946	0	389921

Table 4.2.2 (16) OD Matrices for Case 2 in 2007

P. CAR OD TABLE FOR CASE 2 IN 2007

ZONE NO.	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	TOTAL
1	0	41	19	39	88	91	82	102	8	47	63	23	22	10	19	70	360	20	66	46	89	28	18	84	0	43	24	13	2	0	1488
2	41	0	1	0	0	1	0	1	0	1	0	2	0	0	1	2	6	1	2	4	2	1	0	2	0	0	1	0	0	0	69
3	19	1	0	1	2	1	0	1	0	0	2	2	1	0	1	2	9	1	2	6	2	1	1	3	0	1	0	0	0	0	59
4	39	1	1	0	4	16	1	10	6	6	19	55	4	2	6	26	56	3	4	8	26	10	5	13	0	6	2	2	2	0	333
5	88	0	2	4	0	24	1	2	0	8	8	10	7	4	6	25	47	7	10	14	46	3	7	6	1	11	9	9	1	0	357
6	91	1	1	16	24	0	1	6	1	12	10	18	9	6	9	33	84	8	11	21	59	9	13	8	0	6	6	7	1	0	450
7	83	0	0	1	1	1	0	20	0	19	13	6	7	2	4	17	46	5	10	14	10	4	1	9	0	2	1	2	0	0	278
8	102	0	1	9	2	5	20	0	2	34	65	44	11	4	16	63	157	13	31	30	25	7	3	18	1	2	3	1	1	0	671
9	8	0	0	7	0	0	1	2	0	1	3	11	0	0	1	4	16	1	2	4	3	1	1	2	0	1	0	0	0	0	69
10	47	1	1	8	8	12	18	34	1	0	70	50	527	106	36	100	277	74	106	147	65	28	11	306	0	11	8	4	5	0	2038
11	64	0	2	18	6	10	14	65	3	70	0	115	74	47	43	252	611	42	113	91	82	19	8	259	0	8	5	4	3	0	2038
12	23	2	3	55	10	18	6	44	11	30	116	0	43	35	27	172	770	42	83	112	114	28	14	393	0	11	9	5	4	0	2180
13	22	0	1	5	7	9	7	11	0	527	74	43	0	620	103	299	580	340	488	519	147	67	25	686	1	27	18	9	15	0	4747
14	10	0	0	2	4	6	2	4	0	105	46	35	620	0	258	776	946	859	960	425	153	44	17	573	0	16	9	5	11	0	5878
15	19	1	1	5	5	8	4	17	1	35	43	25	103	258	0	885	704	132	292	147	96	22	8	298	1	9	5	4	5	0	3126
16	70	2	2	26	26	32	17	63	4	100	262	172	399	776	885	0	5550	635	1845	724	488	85	35	1206	2	32	20	15	20	0	13494
17	360	6	9	66	47	64	45	157	16	277	672	770	980	646	704	5549	0	1302	3304	2670	6498	319	125	4702	7	119	73	55	84	0	29617
18	21	1	1	3	7	7	5	13	1	74	42	42	340	659	132	635	1302	0	2692	1563	229	78	25	902	0	23	12	7	21	0	9037
19	66	1	2	5	10	11	10	32	2	105	113	84	488	950	292	1846	3364	2893	0	1971	520	111	39	1441	2	37	21	13	30	0	14159
20	47	4	5	8	15	20	14	30	4	147	90	112	515	425	147	724	2670	1663	1871	0	832	513	86	3622	3	60	27	14	99	0	13567
21	89	2	3	25	46	59	10	26	3	66	82	116	147	153	98	488	6498	230	520	831	0	160	64	2526	2	48	25	20	34	0	12367
22	28	1	1	11	3	8	4	7	1	28	18	28	88	44	21	86	319	78	111	513	160	0	5	183	1	4	3	2	112	0	1847
23	18	0	1	5	7	13	2	3	0	12	8	14	24	17	8	34	126	25	39	86	64	5	0	812	1	2	1	1	2	0	1330
24	54	2	3	13	5	8	9	19	2	306	259	393	667	573	298	1207	4701	902	1441	3522	2526	183	812	0	46	15	11	7	57	0	18061
25	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	2	7	1	2	3	2	1	1	46	0	0	0	0	0	0	69
26	43	0	1	5	12	6	2	3	0	12	8	11	26	16	9	33	118	23	37	60	47	4	2	15	0	0	0	0	1	0	494
27	24	1	0	3	9	6	1	3	1	7	5	8	18	9	6	20	73	13	21	26	25	3	2	10	0	0	0	0	1	0	296
28	13	1	0	1	9	6	2	1	0	4	4	6	11	6	3	15	53	7	13	14	20	2	1	7	0	0	0	0	1	0	198
29	2	0	0	2	1	2	0	1	0	5	2	4	15	11	6	20	84	21	30	99	34	112	2	57	0	1	1	1	0	0	512
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1492	69	61	331	360	445	278	676	67	2038	2037	2178	4747	5878	3126	13494	29514	9041	14156	13567	12365	1848	1331	18068	68	494	295	200	512	0	138736

TAXI OD TABLE FOR CASE 2 IN 2007

ZONE NO.	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	TOTAL
1	0	33	17	27	72	66	67	76	4	41	54	20	18	7	15	54	276	14	48	32	64	16	10	50	0	7	4	1	10	0	1097
2	33	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	5	1	1	2	1	1	0	2	0	0	0	0	0	0	49
3	17	0	0	1	2	0	1	0	0	0	1	2	0	0	1	1	8	1	1	3	2	1	1	2	0	0	0	0	0	0	45
4	28	0	1	0	3	14	0	7	3	7	13	46	4	1	3	21	42	3	5	19	5	3	10	0	1	0	0	2	0	0	244
5	72	1	2	3	0	24	1	1	1	6	6	9	4	3	4	18	35	4	6	9	31	2	6	7	0	1	2	2	4	0	264
6	60	0	0	14	24	0	1	3	1	8	9	17	6	4	6	25	49	5	6	14	42	7	8	9	2	0	1	1	5	0	329
7	67	0	1	0	1	1	0	13	0	14	10	4	4	1	3	12	33	3	7	16	0	2	1	7	0	0	0	0	2	0	202
8	76	0	0	7	1	3	13	0	1	27	50	35	9	3	13	48	117	10	22	19	19	3	2	13	0	1	0	1	2	0	496
9	5	0	0	3	1	1	0	1	0	1	3	9	0	0	1	2	12	0	3	2	2	1	0	2	0	0	0	0	0	0	49
10	41	0	1	7	6	8	14	27	1	0	63	26	487	94	31	87	238	63	92	122	52	16	7	286	0	2	1	1	14	0	1756
11	54	1	1	13	6	9	9	50	3	63	0	108	66	42	38	236	542	35	101	72	72	11	6	211	1	1	1	0	9	0	1759
12	26	1	2	46	10	17	4	36	10	26	107	0	37	31	23	156	697	34	72	88	99	17	9	326	2	1	1	1	14	0	1898
13	18	0	0	4	4	6	4	9	0	486	66	37	0	564	92	356	492	301	437	447	116	41	15	579	2	4	2	1	43	0	4125
14	7	0	0	2	2	4	1	3	0	94	42	31	564	0	230	589	824	755	847	367	128	28	10	460	2	2	1	1	31	0	5123
15	15	0	1	3	4	6	3	13	1	31	38	24	92	230	0	783	621	115	289	126	82	12	5	242	1	1	0	1	12	0	2720
16	54	1	1	21	18	25	13	48	2	87	234	155	356	689	782	0	4886	554	1436	620	421	50	21	972	6	4	3	2	56	0	11714
17	276	5	7	42	38	49	33	118	12	237	542	697	492	924	621	4886	0	1114	2903	2276	5822	191	80	3946	20	15	8	7	228	0	25544
18	14	1	1	3	4	5	3	10	0	64	35	34	301	756	115	553	1115	0	2365	1390	186	58	15	719	2	3	2	0	57	0	7803
19	48	1	2	3	6	8	7	22	3	91	101	72	428	847	259	1637	2962	2365	0	1677	448	69	24	1162	4	5	4	1	86	0	12547
20	32	2	3	5	10	14	9	19	3	122	72	88	447	367	125	819	2276	1390	1677	0	686	382	55	2941	10	8	4	2	302	0	11470
21	64	2	2	18	31	42	6	19	2	52	72	99	115	128	81	422	5822	186	448	686	0	93	41	2258	11	6	3	3	99	0	10812
22	16	1	1	6	2	7	1	3	1	16	11	17	41	28	13	50	191	60	69	382	93	0	4	192	2	1	0	0	403	0	1598
23	10	1	0	3	6	8	1	2	0	7	5	9	15	11	5	20	80	16	24	54	41	4	0	808	3	0	1	0	6	0	1140
24	50	2	2	10	7	9	7	13	2	256	211	326	579	460	242	972	3944	719	1162	2941	2258	192	808	0	212	4	3	1	298	0	15690
25	0	0	0	0	0	2	0	0	0	0	1	2	1	2	1	5	20	3	4	10	11	2	3	212	0	0	0	0	2	0	281
26	7	0	0	1	2	0	0	1	0	1	1	1	4	2	1	4	15	3	5	9	6	1	0	4	0	0	0	0	1	0	69
27	4	0	0	1	2	1	0	0	0	1	1	1	2	2	0	2	9	2	3	4	3	0	1	2	0	0	0	0	1	0	41
28	1	0	0	0	2	1	0	1	0	0	1	0	2	0	1	3	8	0	1	2	3	0	0	1	0	0	0	0	1	0	28
29	16	0	0	3	4	6	1	2	0	15	9	14	43	31	12	56	228	56	81	302	99	403	6	299	2	1	0	1	0	0	1684
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1099	62	46	244	266	330	199	496	50	1753	1769	1884	4127	5124	2718	11713	25646	7803	12348	11670	10812	1698	1140	15690	281	66	41	27	1682	0	120663

Table 4.2.2 (17) OD Matrices for Case 2 in 2007

BUS OD TABLE FOR CASE 2 IN 2007

ZONE NO.	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	TOTAL
1	0	12	4	20	31	30	26	36	4	12	17	6	6	3	6	23	102	6	20	10	24	4	3	11	1	7	4	2	1	0	431
2	12	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	2	1	0	1	0	1	0	0	0	1	0	0	0	0	21
3	4	0	0	1	1	0	0	0	0	0	0	2	0	0	0	1	3	0	1	1	1	0	0	1	0	0	0	0	0	0	16
4	20	0	1	0	1	6	0	3	1	2	4	9	2	1	4	18	14	2	1	1	8	2	1	3	0	0	0	0	0	0	104
5	31	1	0	1	0	10	1	1	0	2	2	3	1	2	1	5	14	1	2	3	10	1	1	2	0	1	1	3	0	0	100
6	30	1	0	6	10	0	1	3	0	3	3	6	3	1	2	5	18	3	3	4	14	1	3	1	0	1	1	1	0	0	124
7	26	0	0	1	1	1	0	4	0	6	2	1	2	1	0	6	13	2	3	4	3	1	0	2	0	1	0	0	0	0	79
8	36	0	0	3	1	2	0	0	0	8	11	9	3	2	5	19	45	5	11	10	9	1	1	4	1	0	1	0	1	0	193
9	4	0	1	1	0	1	0	0	0	0	1	2	0	0	0	1	5	1	0	2	1	0	0	1	0	0	0	0	0	0	21
10	12	1	0	1	2	3	0	7	0	0	10	6	60	19	8	22	58	16	24	28	16	3	1	44	0	1	0	1	1	0	348
11	17	0	0	4	2	2	3	11	0	10	0	15	13	10	6	42	95	10	23	18	18	2	2	40	1	0	1	1	0	0	345
12	6	1	1	9	3	7	1	9	2	6	14	6	10	7	8	33	120	10	19	21	23	3	2	58	0	1	1	0	1	0	374
13	6	0	0	2	1	3	1	4	0	60	13	9	0	87	19	78	120	53	92	95	32	10	5	98	0	4	1	1	3	0	805
14	3	0	0	1	2	2	1	2	0	19	10	7	87	0	40	128	181	127	153	46	37	8	2	96	0	2	1	0	3	0	997
15	6	0	0	5	1	2	1	5	0	7	7	6	19	39	0	117	122	27	55	21	22	3	2	51	0	1	0	2	1	0	532
16	23	1	1	18	5	5	0	19	1	22	42	33	78	129	116	0	816	126	307	155	110	15	6	223	1	4	2	1	6	0	2271
17	102	2	3	14	14	19	13	45	5	56	95	120	120	180	122	816	0	259	582	489	916	51	19	847	5	12	7	4	20	0	4936
18	6	1	0	2	1	2	2	5	1	16	10	10	63	127	28	128	260	0	368	262	56	16	3	149	0	2	1	1	6	0	1522
19	20	1	0	2	2	3	3	11	1	24	23	19	92	153	54	307	582	369	0	330	117	21	5	252	1	4	3	1	8	0	2408
20	10	1	2	1	2	4	4	10	1	29	18	20	95	86	31	165	488	282	330	0	159	86	8	446	1	5	2	1	28	0	2284
21	24	0	1	9	10	14	4	9	1	14	17	23	32	36	22	111	916	65	117	160	0	22	9	474	2	5	2	1	8	0	2097
22	4	1	0	1	1	2	0	2	0	3	3	4	10	8	3	15	50	16	21	84	23	0	0	32	0	0	1	0	32	0	316
23	3	0	0	1	1	3	0	1	0	1	2	2	3	2	2	5	19	3	6	8	9	1	0	153	1	0	0	1	9	0	227
24	11	1	1	3	2	1	2	4	1	43	41	57	98	96	51	225	848	148	252	446	474	31	154	0	48	2	1	1	20	0	3090
25	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2	5	0	2	1	2	0	1	48	0	0	0	0	0	0	64
26	7	1	0	0	1	1	1	0	0	1	1	1	4	1	1	4	11	2	4	4	5	0	0	2	0	0	0	0	0	0	52
27	4	0	0	1	1	1	0	0	0	1	0	1	1	2	0	2	6	1	3	2	2	1	0	2	0	0	0	0	0	0	31
28	2	0	0	0	3	1	0	0	0	1	0	1	1	0	1	1	4	1	1	1	1	1	0	1	0	0	0	0	0	0	21
29	1	0	0	0	1	0	0	0	0	1	1	1	3	3	1	6	20	6	8	28	8	31	0	20	0	1	0	0	0	0	140
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	431	25	15	105	101	125	80	191	18	345	348	373	806	995	529	2273	4935	1522	2408	2284	2096	315	226	3061	62	65	30	21	140	0	23917

TRUCK OD TABLE FOR CASE 2 IN 2007

ZONE NO.	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	TOTAL
1	0	66	35	96	212	131	141	226	13	112	168	59	60	27	61	213	835	46	165	49	158	23	9	82	1	2	1	0	1	0	2972
2	66	0	1	1	3	1	1	1	0	2	2	4	1	1	1	6	21	2	5	5	5	1	1	3	0	0	0	0	0	0	134
3	35	0	0	2	6	2	1	2	0	2	3	6	1	1	2	8	24	3	6	6	6	1	1	2	0	0	0	0	0	0	119
4	96	1	2	0	12	40	3	15	5	19	32	64	9	7	16	81	126	9	16	10	60	7	6	13	0	0	0	0	0	0	649
5	212	3	6	11	0	66	3	8	2	15	18	32	8	7	13	58	91	8	15	11	53	12	7	24	0	0	0	2	0	0	705
6	132	1	2	40	66	0	5	14	3	24	33	59	13	10	21	91	149	13	23	17	64	16	9	29	0	1	0	0	0	0	675
7	141	1	0	4	3	4	0	14	1	27	19	13	13	6	13	49	114	17	35	27	28	3	1	11	1	0	0	0	0	0	545
8	227	1	2	15	8	14	14	0	2	51	69	57	24	14	38	146	330	48	99	66	74	7	4	26	0	0	0	0	1	0	1327
9	13	0	0	5	1	4	0	2	0	3	5	11	1	1	2	13	40	4	9	7	9	1	1	3	0	0	0	0	0	0	135
10	112	2	2	19	15	24	28	51	3	0	111	74	477	221	94	297	687	213	307	315	166	30	10	384	0	1	0	0	0	0	3643
11	158	3	3	32	18	33	19	58	5	111	0	138	153	125	92	441	969	136	292	205	212	21	11	373	0	0	2	0	0	0	3631
12	59	4	6	64	32	66	14	57	11	74	138	0	110	108	76	398	1245	133	250	209	272	28	22	497	0	0	0	0	1	0	3866
13	50	1	1	9	8	13	12	24	1	477	153	110	6	738	225	863	1334	883	984	980	324	85	15	787	1	1	1	0	1	0	7861
14	27	1	1	7	7	11	6	14	1	221	126	108	738	0	359	1228	1982	1094	1400	947	440	74	15	841	0	1	0	0	1	0	9650
15	61	2	2	16	13	21	13	38	2	94	92	77	224	359	0	929	1298	328	589	379	279	33	9	488	0	0	0	0	1	0	5347
16	213	6	8	82	58	91	49	146	13	297	440	398	863	1228	929	0	7002	1408	2846	1751	1297	142	40	2071	2	1	1	0	2	0	21383
17	835	21	24	126	91	149	114	330	40	687	989	1245	1335	1982	1297	7002	0	2873	5692	4913	7668	477	123	8229	7	3	1	0	7	0	46160
18	46	2	4	9	8	12	17	48	4	213	135	133	683	1094	328	1408	2873	0	2856	2517	847	175	19	1260	1	1	1	1	2	0	14496
19	186	6	6	16	16	23	35	99	9	308	292	250	984	1400	589	2845	5692	2856	0	3265	1343	235	34	2192	2	1	0	0	3	0	22563
20	49	6	6	10	11	17	27	66	7	315	206	208	960	947	379	1756	4914	2517	3265	0	1823	1030	41	3158	2	1	1	0	11	0	21428
21	158	5	5	60	54	84	28	73	9	166	211	273	324	440	278	1798	7567	847	1344	1823	0	172	53	4947	4	2	0	0	3	0	19728
22	23	1	1	7	12	16	3	7	1	31	21	28	86	74	33	145	477	174	235	1029	172	0	11	745	1	0	1	0	27	0	3357
23	10	1	1	5	7	9	1	8	1	9	11	22	16	15	9	39	123	19	35	41	53	11	0	2109	1	1	0	0	0	0	2554
24	82	3	2	14	24	29	11	26	3	384	373	497	787	840	488	2071	8229	1251	2191	3158	4946	745	2108	0	180	1	1	1	24	0	28479
25	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	2	7	1	3	3	4	1	1	180	0	0	0	0	0	0	206
26	3	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	4	0	1	1	2	0	0	1	0	0	0	0	0	0	15
27	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	0	1	1	0	1	0	1	0	0	0	0	0	0	9
28	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	6
29	1	0	0	0	0	0	0	1	0	0	0	0	1	1	1	2	7	2	3	11	3	28	0	24	0	0	0	0	0	0	85
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2976	136	119	650	706	873	546	1325	136	3640	3629	3866	7862	9649	5344	21381	46161	14496	22665	21426	19729	3359	2551	28481	204	16	10	4	85	0	222028

Table 4.2.2 (18) OD Matrices for Case 2 in 2007

ALL VEHICLES OD TABLE FOR CASE 2 IN 2007

ZONE NO.	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	TOTAL
1	0	162	75	182	403	312	316	441	29	212	297	108	98	47	101	360	1573	86	299	137	335	71	40	197	2	59	33	16	14	0	5988
2	162	0	3	1	4	2	1	2	0	4	3	7	1	1	2	9	34	5	8	12	8	4	1	7	0	1	1	0	0	0	273
3	75	1	0	5	11	3	2	3	0	2	6	12	2	1	4	12	44	5	9	16	11	3	3	8	0	1	0	0	0	0	239
4	183	2	5	0	20	76	4	35	15	34	68	174	19	11	29	146	239	17	24	24	113	24	15	39	0	6	3	2	4	0	1330
5	403	6	10	19	0	144	6	12	3	31	32	64	20	16	24	106	187	20	33	37	140	18	21	38	1	13	12	16	5	0	1426
6	313	3	3	76	144	0	8	25	5	47	55	100	31	21	38	156	280	29	45	56	199	33	33	47	2	8	8	9	6	0	1778
7	317	1	1	6	6	7	0	51	1	65	44	24	26	10	20	84	206	27	55	55	47	10	3	29	1	3	1	2	2	0	1104
8	442	1	3	34	12	24	52	0	6	120	185	145	47	23	72	276	649	76	163	125	127	18	10	61	2	3	4	2	5	0	2686
9	30	0	1	16	2	6	1	5	0	5	12	33	1	1	4	20	73	6	14	15	15	3	2	8	0	1	0	0	0	0	274
10	212	4	4	33	31	47	65	119	5	0	254	136	1551	439	169	606	1258	366	529	612	298	77	29	989	0	15	9	6	20	0	7783
11	293	4	6	67	32	54	45	184	11	254	0	376	306	225	179	980	2227	223	529	386	382	54	28	885	2	9	9	4	13	0	7773
12	108	8	12	174	65	100	25	145	34	136	375	0	200	181	132	758	2832	219	424	430	508	76	47	1274	2	13	11	6	20	0	8305
13	98	1	2	20	20	31	24	48	1	1550	306	199	0	2009	439	1696	2526	1387	2001	2018	619	203	58	2150	4	36	22	11	62	0	17538
14	47	1	1	12	15	23	10	23	1	439	228	181	2009	0	887	2821	3933	2936	3350	1824	758	162	44	1970	2	21	11	6	46	0	21648
15	101	3	4	29	24	37	21	73	4	187	180	133	438	886	0	2714	2745	602	1195	662	479	70	24	1079	2	11	5	7	19	0	11734
16	360	10	12	147	107	154	85	276	20	506	978	758	1695	2822	2712	0	18253	2723	6833	3250	2316	292	102	4472	10	41	26	18	84	0	48862
17	1573	34	43	238	187	281	205	650	73	1256	2238	2832	2527	3932	2744	18252	0	5548	12601	10348	20806	1038	347	17723	39	149	89	66	339	0	106157
18	87	5	6	17	20	26	27	76	6	367	222	219	1387	2835	603	2722	5550	0	9262	5732	1117	318	62	3030	3	28	16	9	96	0	32858
19	299	8	9	26	33	45	56	164	15	528	529	425	2002	3350	1194	6636	12600	8284	0	7143	2428	436	102	5047	9	47	28	15	121	0	51577
20	138	13	18	24	38	56	54	125	15	613	386	428	2017	1825	682	3248	10348	5732	7143	0	3200	2010	190	10067	17	74	34	17	440	0	48949
21	335	9	11	111	141	199	48	126	15	298	382	510	619	757	477	2219	20803	1118	2429	3200	0	447	187	10205	19	61	30	24	144	0	45004
22	71	4	3	24	18	33	8	19	3	78	53	77	204	152	70	292	1037	318	436	2008	449	0	20	1152	4	5	5	2	574	0	7118
23	41	2	2	14	21	33	4	11	1	29	28	47	58	45	24	98	348	63	104	199	187	21	0	3892	6	3	2	2	8	0	5251
24	197	8	8	40	38	47	29	62	8	989	884	1273	2151	1969	1079	4473	17722	3030	6048	10067	10204	1151	3882	0	496	22	16	10	399	0	65290
25	2	0	0	0	1	3	1	0	0	0	2	2	3	4	1	11	39	5	11	17	19	4	6	486	0	0	0	0	2	0	619
26	60	1	1	6	15	8	3	4	0	14	10	13	25	20	11	41	148	28	47	74	66	5	2	22	0	0	0	0	2	0	630
27	33	1	0	4	12	8	1	5	1	9	8	10	21	13	6	25	89	15	28	33	30	5	3	15	0	0	0	0	2	0	378
28	16	1	0	1	16	8	2	2	0	6	5	6	14	5	5	19	68	9	18	17	25	3	1	10	0	0	0	0	2	0	253
29	14	0	0	6	6	8	1	4	0	21	12	19	62	46	19	84	339	85	122	440	144	574	8	400	2	3	1	2	0	0	2421
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5998	282	241	1330	1432	1774	1103	2688	271	7780	7773	8301	17542	21646	11727	48861	16156	32862	51575	48947	45002	7120	5248	65290	615	633	376	262	2419	0	505244

Table 4.2.2 (19) OD Matrices for Case 2 in 2017

P. CAR OD TABLE FOR CASE 2 IN 2017

ZONE NO.	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	TOTAL
1	0	75	34	81	160	137	153	220	9	76	100	49	42	16	22	133	631	34	109	96	141	72	35	106	0	59	33	19	3	0	2655
2	75	0	1	1	1	1	1	1	0	2	1	3	0	1	1	3	13	1	3	7	4	2	1	2	0	1	1	1	0	0	128
3	34	1	0	3	3	2	0	1	0	2	1	6	1	1	1	6	20	3	4	13	6	2	2	5	0	2	0	1	0	0	119
4	81	1	3	0	7	28	3	17	14	14	34	119	8	4	19	53	171	7	11	18	47	22	10	24	2	6	5	4	1	0	664
5	160	2	3	7	0	35	3	5	1	12	10	20	10	7	10	46	82	9	15	30	71	7	18	8	0	16	12	12	1	0	611
6	137	1	2	27	35	0	3	6	2	16	15	33	13	7	13	56	103	12	18	38	85	18	22	13	0	10	6	11	2	0	701
7	153	1	0	3	3	3	0	36	0	32	22	11	13	3	6	32	86	11	18	35	16	9	3	17	0	3	2	1	1	0	519
8	220	1	1	18	4	6	36	0	4	58	115	91	24	7	29	122	296	22	58	63	43	14	6	36	0	4	3	2	1	0	1296
9	9	1	0	14	1	2	0	4	0	3	8	29	1	1	2	9	38	2	6	10	7	2	1	6	0	1	1	0	0	0	168
10	76	2	1	14	12	16	32	58	3	0	109	56	1070	161	66	173	474	134	174	362	100	55	20	516	1	15	10	7	8	0	3714
11	101	1	2	33	11	15	22	115	7	109	0	218	140	74	70	460	1069	68	190	170	129	36	15	449	0	10	8	4	5	0	3534
12	49	3	6	119	20	33	11	91	29	55	218	0	89	63	51	354	1575	78	164	291	209	65	31	796	1	18	12	10	7	0	4448
13	42	0	1	8	10	13	12	24	2	1070	140	89	0	947	162	888	1129	632	803	1413	256	134	46	1260	1	36	24	13	25	0	8880
14	16	1	1	5	7	7	3	7	1	161	74	64	946	0	407	1322	1699	1330	1844	782	290	85	30	982	1	22	13	7	15	0	9722
15	32	1	1	9	10	13	7	29	1	57	89	51	162	407	0	1276	1244	214	496	284	151	44	15	521	1	12	8	4	6	0	5425
16	133	3	5	53	45	54	32	122	9	173	460	354	688	1321	1576	0	10607	1113	3388	1511	966	184	68	2281	3	49	32	22	31	0	25283
17	631	13	20	111	82	103	86	298	38	474	1089	1675	1129	1599	1244	10607	0	2263	6134	8369	11018	668	254	8817	16	177	112	81	126	0	57133
18	34	1	3	7	9	12	10	23	2	134	68	78	632	1330	214	1113	2263	0	4497	2962	394	153	50	1600	1	33	19	10	29	0	15581
19	109	3	5	11	15	18	18	58	5	174	191	163	862	1543	496	3388	6134	4497	0	3721	972	229	76	2621	4	53	31	20	42	0	25400
20	96	8	12	16	30	39	35	63	10	362	172	292	1413	782	284	1511	8368	2962	3722	0	1637	1206	241	7336	8	134	66	35	164	0	31106
21	141	4	6	47	71	85	16	43	7	100	130	208	256	291	151	966	11019	393	972	1537	0	306	113	4232	7	63	34	26	47	0	21271
22	72	2	3	22	7	16	8	14	3	55	36	66	134	54	44	183	688	154	228	1206	306	0	14	389	0	9	5	4	193	0	3945
23	35	1	2	10	18	22	4	6	1	19	15	31	47	30	15	69	254	49	77	241	115	13	0	1674	2	3	2	2	2	0	2657
24	106	2	6	25	8	12	17	36	6	516	449	795	1260	982	521	2281	8816	1600	2621	7536	4232	389	1573	0	101	22	15	10	86	0	34022
25	0	0	0	2	0	0	0	0	0	0	0	1	1	1	1	3	14	2	4	7	7	1	2	100	0	1	0	0	0	0	149
26	69	2	1	7	16	10	3	4	1	16	10	19	36	22	12	49	177	33	54	134	63	8	4	22	1	0	0	0	2	0	765
27	33	1	0	5	13	7	2	3	0	10	8	12	24	13	8	33	112	19	31	67	34	6	2	16	0	0	0	0	1	0	460
28	20	0	2	3	12	10	1	2	0	7	4	10	13	7	4	22	81	10	20	34	28	4	2	10	0	0	0	0	2	0	306
29	3	0	0	2	1	2	1	1	0	8	5	8	25	15	6	31	127	29	42	163	47	192	2	85	0	2	1	1	0	0	798
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2857	131	120	863	611	700	519	1287	156	3716	3533	4448	8880	9719	5428	25286	67133	15581	25403	31102	21270	3944	2656	34025	150	761	455	307	800	0	261439

TAXI OD TABLE FOR CASE 2 IN 2017

ZONE NO.	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	TOTAL
1	0	70	36	74	164	118	144	212	8	72	96	46	38	14	28	116	536	27	89	73	111	47	24	107	1	11	6	3	14	0	2293
2	70	0	1	1	2	0	0	1	0	0	1	2	1	0	1	2	9	0	3	5	2	2	0	3	0	0	0	0	0	0	106
3	36	1	0	2	4	2	0	1	1	1	2	6	1	1	1	4	17	1	3	9	4	1	2	4	0	0	0	1	0	0	104
4	74	1	3	0	6	28	3	15	14	11	30	111	6	3	8	46	95	5	8	12	38	13	7	21	1	1	1	0	5	0	568
5	164	2	4	6	0	43	1	3	1	10	10	18	9	6	8	35	65	7	11	23	53	6	13	13	1	2	2	3	7	0	526
6	119	0	2	28	43	0	3	6	3	13	14	33	9	6	10	46	87	8	13	30	67	15	17	18	1	2	1	2	8	0	604
7	144	0	1	2	1	3	0	31	0	28	19	10	11	3	7	26	71	8	16	26	13	5	1	14	0	0	0	0	3	0	442
8	212	0	1	16	3	6	31	0	4	51	100	80	21	6	25	105	251	18	47	49	34	8	5	28	1	0	0	0	4	0	1105
9	9	0	1	14	1	2	0	4	0	2	6	28	1	0	2	7	34	2	4	8	6	2	1	6	0	0	0	0	1	0	137
10	72	1	1	11	10	13	28	51	2	0	99	49	987	142	50	149	398	116	149	306	78	33	13	429	2	2	1	0	24	0	3196
11	96	1	2	30	10	14	18	100	6	99	0	199	124	66	61	410	935	57	186	138	111	21	9	384	2	2	1	0	12	0	3053
12	45	2	6	111	19	33	10	81	26	49	199	0	76	55	44	316	1368	64	140	234	178	38	24	657	4	2	1	2	21	0	3836
13	38	1	1	6	9	10	11	21	1	867	124	76	0	847	146	605	948	471	707	1235	205	94	28	1046	4	5	4	1	66	0	7666
14	14	0	1	3	6	6	3	6	0	142	64	56	847	0	383	1186	1380	1178	1366	671	246	51	19	793	4	3	1	0	40	0	8428
15	28	1	0	8	8	10	7	25	1	50	62	44	144	383	0	1391	1088	188	439	238	129	25	10	424	2	1	1	1	19	0	4707
16	116	2	4	46	36	46	26	105	8	148	410	316	605	1186	1391	0	9240	976	2987	1278	806	112	44	1845	9	7	4	3	84	0	21848
17	538	9	17	96	65	67	71	251	33	398	936	1398	948	1380	1088	9240	0	1941	5332	7203	9763	424	166	7385	44	22	13	11	339	0	49199
18	27	1	1	6	7	8	8	18	2	116	57	64	471	1178	188	976	1941	0	3971	2636	326	100	31	1293	6	3	3	1	78	0	13516
19	89	3	2	8	11	14	15	47	4	149	166	140	708	1366	439	2987	5331	3971	0	3288	837	147	47	2121	11	6	5	2	115	0	22029
20	73	5	9	12	23	30	26	46	8	304	438	236	1236	671	238	1277	7203	2636	3287	0	1254	916	147	6246	24	18	9	5	489	0	28669
21	111	2	5	38	53	68	13	34	6	79	111	179	205	246	129	837	9763	326	837	1254	0	184	74	3797	23	8	4	3	133	0	16522
22	47	2	1	13	6	15	4	9	2	32	21	38	84	51	25	111	424	101	147	916	184	0	10	424	3	1	1	1	706	0	3379
23	24	0	2	7	13	17	2	4	1	13	10	23	29	20	9	45	166	21	46	147	74	9	0	1575	7	1	0	0	9	0	2293
24	107	3	6	21	12	18	13	28	5	429	364	658	1046	793	424	1844	7385	1293	2121	6245	3797	424	1575	0	471	6	4	3	444	0	29537
25	1	0	0	1	2	1	0	1	0	2	2	3	4	4	2	10	44	6	11	25	22	3	7	471	0	0	1	0	2	0	625
26	11	0	0	1	2	2	0	0	1	2	1	2	6	3	1	7	22	3	7	19	8	1	1	5	0	0	0	0	2	0	107
27	6	0	0	1	2	2	0	0	0	1	1	1	4	1	1	4	14	2	5	9	4	1	0	4	1	0	0	0	0	0	64
28	3	0	1	0	3	2	0	0	0	1	0	1	2	0	1	3	10	1	2	6	3	1	0	3	0	0	0	0	1	0	43
29	14	0	1	5	6	8	3	4	1	24	13	21	66	40	19	84	338	78	116	488	133	705	9	445	2	2	1	1	0	0	2627
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2285	107	167	565	528	606	440	1106	138	3193	3066	3833	7667	8430	4708	21848	49193	13816	22029	26669	18517	3378	2284	29539	624	104	64	43	2626	0	227100

Table 4.2.2 (20) OD Matrices for Case 2 in 2017

BUS OD TABLE FOR CASE 2 IN 2017

ZONE NO.	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	TOTAL
1	0	10	7	12	28	24	20	36	4	14	19	10	8	3	7	30	124	7	24	15	25	7	3	14	0	8	4	1	1	0	464
2	10	0	1	1	1	0	0	1	1	0	0	0	0	0	1	1	3	1	0	1	1	0	0	1	0	0	0	0	0	0	24
3	7	1	0	0	0	0	1	0	0	0	1	1	0	0	0	1	5	0	1	2	1	0	0	1	0	0	0	1	0	0	23
4	12	1	0	0	1	6	0	3	0	2	5	15	2	2	5	23	23	2	3	3	10	2	2	3	0	1	2	0	0	0	128
5	28	1	0	1	0	6	1	1	1	2	3	4	2	1	1	6	16	2	3	4	12	1	1	1	1	2	0	2	1	0	103
6	24	1	0	6	6	0	2	1	0	3	4	7	3	1	2	6	22	3	3	6	14	2	3	3	0	1	0	1	0	0	123
7	20	0	1	0	1	2	0	3	0	5	3	2	2	1	2	6	18	3	5	7	4	1	1	2	0	1	0	0	0	0	90
8	35	1	0	3	1	2	3	0	0	10	13	12	4	2	6	25	56	6	13	14	9	2	2	6	0	0	0	1	0	0	226
9	4	1	0	0	1	0	0	0	0	1	0	3	0	0	1	2	7	0	2	2	1	1	0	1	0	0	0	0	1	0	29
10	14	0	0	2	2	3	5	9	1	0	18	11	124	30	12	41	104	30	41	74	23	9	3	78	1	1	2	1	2	0	641
11	19	0	1	5	3	4	3	13	0	18	0	29	26	15	14	78	178	17	40	37	29	5	2	74	1	1	0	2	1	0	615
12	10	1	1	15	4	6	3	12	3	12	29	0	19	15	11	70	258	20	37	58	44	8	5	121	1	2	1	1	1	0	766
13	8	0	0	2	2	3	2	4	0	123	26	19	0	135	32	139	238	103	155	252	57	22	6	185	1	3	3	1	6	0	1527
14	3	0	0	2	1	1	1	2	0	30	15	15	135	0	62	221	314	198	246	150	67	15	4	189	1	3	2	0	4	0	1672
15	7	1	0	6	1	1	2	6	1	12	14	11	32	62	0	215	226	46	94	64	35	7	3	94	1	1	1	0	2	0	945
16	30	1	1	23	6	6	6	25	2	40	78	70	139	222	214	0	1624	228	669	303	216	34	13	431	3	5	4	3	8	0	4334
17	124	3	5	23	15	22	18	57	7	104	179	258	238	313	227	1624	0	466	1087	1472	1614	113	43	1655	11	19	10	8	31	0	9747
18	7	1	0	2	2	2	3	6	0	30	17	19	104	198	46	228	466	0	621	510	95	30	7	272	1	4	2	1	8	0	2682
19	24	1	0	3	3	3	5	13	2	41	40	37	155	247	93	569	1087	620	0	666	215	44	12	466	3	6	3	2	12	0	4371
20	15	1	2	3	4	8	7	14	2	74	37	58	252	160	64	333	1472	510	666	0	303	204	27	988	4	11	6	2	45	0	6299
21	26	0	1	11	11	14	4	10	1	23	29	43	57	67	36	216	1614	95	214	304	0	44	17	813	5	6	4	3	10	0	3678
22	7	0	1	2	1	2	1	2	1	8	5	9	22	14	7	34	113	30	44	204	44	0	2	69	1	0	1	0	54	0	678
23	3	1	0	2	1	3	1	2	0	3	3	5	6	5	2	13	43	7	12	27	17	1	0	302	2	0	0	0	0	0	461
24	14	1	1	3	1	3	2	6	1	79	74	121	184	169	94	431	1665	272	466	988	814	66	302	0	106	3	3	1	30	0	5693
25	0	0	0	0	1	0	0	0	0	1	1	0	1	1	1	3	11	2	3	4	5	1	1	107	0	0	0	0	0	0	142
26	8	0	0	1	2	0	1	0	0	2	1	3	3	3	1	5	18	5	5	12	5	1	0	3	0	0	0	0	1	0	81
27	4	0	0	2	1	0	0	0	0	2	0	1	2	3	1	3	11	2	3	6	4	1	0	3	0	0	0	0	0	0	48
28	1	0	1	0	2	1	0	1	0	0	2	1	1	0	0	3	9	2	2	2	3	0	0	1	0	0	0	0	0	0	32
29	1	0	0	0	1	0	0	0	0	2	1	2	6	4	1	8	31	8	12	45	11	54	0	30	0	1	0	0	0	0	218
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	465	27	23	129	104	120	91	226	27	641	618	766	1527	1673	943	4334	9746	2685	4370	5270	3678	678	459	5893	143	79	48	31	218	0	46012

TRUCK OD TABLE FOR CASE 2 IN 2017

ZONE NO.	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	TOTAL
1	0	109	60	181	390	181	235	421	26	173	244	111	93	45	94	395	1428	76	263	119	235	47	18	147	1	4	1	0	1	0	5098
2	109	0	2	3	4	3	1	2	0	3	4	8	2	1	2	12	38	5	8	11	9	1	1	6	0	0	0	0	0	0	235
3	60	2	0	4	9	3	0	3	1	4	5	12	2	2	3	16	49	5	11	15	11	2	1	7	0	0	0	0	0	0	227
4	181	3	4	0	20	66	9	28	10	34	60	129	19	13	30	162	254	17	31	27	104	16	12	26	1	0	1	2	0	0	1256
5	391	4	9	21	0	116	5	13	3	22	28	55	14	9	19	97	149	13	23	24	78	20	11	40	1	0	1	2	0	0	1167
6	181	3	3	66	116	0	7	22	7	34	47	92	20	16	31	143	237	18	33	36	116	26	17	47	1	0	1	0	1	0	1319
7	235	1	1	8	5	7	0	25	1	44	31	27	22	10	21	91	210	33	61	75	43	8	3	21	0	0	0	0	0	0	683
8	421	2	3	28	12	23	25	0	5	87	100	109	44	24	66	274	625	79	173	151	122	15	10	60	0	1	0	0	0	0	2459
9	26	0	1	11	3	7	1	5	0	8	10	24	3	2	5	29	89	10	19	22	19	2	2	8	0	0	0	0	0	0	306
10	173	3	4	34	22	34	44	87	8	0	175	133	843	336	151	518	1204	369	502	798	251	65	17	679	6	1	0	0	1	0	6452
11	244	4	5	60	28	46	31	100	10	175	0	247	269	192	147	771	1742	216	478	396	327	39	20	650	1	0	0	1	0	0	6211
12	112	7	12	130	55	93	26	110	24	133	247	0	215	195	137	788	2473	226	483	582	473	56	50	994	1	1	0	1	1	0	7607
13	93	2	2	19	13	20	23	44	3	842	270	214	0	1119	386	1499	3564	1071	1901	2469	582	171	31	1474	2	1	1	0	2	0	14447
14	45	1	2	13	9	15	10	24	2	337	192	185	1119	0	551	2062	3347	1868	2203	1772	780	128	27	1497	2	0	0	1	1	0	15982
15	94	3	2	39	19	31	21	66	5	150	147	137	386	552	0	1635	2297	621	971	743	432	60	18	866	1	0	0	0	1	0	9159
16	396	12	16	162	97	143	91	274	29	518	771	788	1499	2062	1635	0	13584	2452	5140	3763	2431	281	89	4044	4	2	1	1	4	0	40288
17	1428	38	49	254	150	237	209	625	90	1204	1741	2473	2563	3347	2297	13584	0	5027	10339	14183	12911	953	285	16158	16	8	2	2	10	0	90180
18	78	5	5	17	13	18	34	79	10	369	216	236	1072	1667	922	2451	5027	0	4663	4891	1082	312	39	2324	2	0	1	0	3	0	25104
19	263	8	11	31	23	33	50	174	19	502	478	464	1601	2203	971	5140	10340	4663	0	6672	2353	436	67	4109	4	1	1	1	4	0	40622
20	119	11	15	27	24	36	75	151	22	798	399	582	2469	1772	743	3763	14183	4891	6672	0	2880	2278	116	7177	8	3	1	0	20	0	49125
21	235	10	11	104	78	116	43	122	18	251	327	473	592	780	431	2431	12911	1082	2353	2880	0	301	95	8506	8	1	0	2	3	0	34164
22	48	1	2	16	20	26	8	15	2	66	38	58	172	127	60	281	953	312	426	2278	300	0	20	1497	2	1	1	0	44	0	6783
23	18	1	1	12	11	17	3	10	1	17	21	50	30	28	18	89	284	49	67	116	95	20	0	3855	2	0	0	0	1	0	4807
24	147	6	7	26	40	47	22	50	8	679	659	993	1475	1497	868	4044	16158	2324	4108	7178	8506	1497	3855	0	386	1	1	1	37	0	54621
25	1	0	0	1	1	1	0	0	0	0	1	2	2	1	1	5	16	2	4	8	8	2	2	386	0	0	0	0	0	0	443
26	4	0	0	0	0	0	0	0	1	0	1	0	1	0	2	5	8	1	3	1	1	0	0	3	0	0	0	0	0	0	24
27	1	0	0	0	0	1	2	0	0	0	0	0	1	0	0	1	2	1	0	2	0	2	0	1	0	0	0	0	0	0	14
28	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	1	2	0	1	0	1	0	0	2	0	0	0	0	0	0	10
29	2	0	0	0	0	1	0	0	0	1	0	1	2	1	1	3	10	3	4	20	3	44	0	37	0	0	0	0	0	0	133
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6102	236	227	1258	1165	1321	983	2451	304	6451	6211	7604	14488	15982	9159	40287	90181	25104	40618	49127	34152	6785	4806	54621	442	24	12	12	134	0	419147

Table 4.2.2 (21) OD Matrices for Case 2 in 2017

ALL VEHICLES OD TABLE FOR CASE 2 IN 2017

ZONE NO.	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	TOTAL
1	0	284	136	348	742	460	552	988	47	335	459	218	181	78	181	674	2719	144	485	303	512	173	80	374	2	82	44	23	19	0	10600
2	284	0	5	6	8	4	2	6	1	5	6	13	3	2	5	18	63	7	14	24	16	5	2	12	0	1	1	1	0	0	493
3	136	5	0	9	16	7	1	6	2	7	9	25	4	4	5	28	91	9	19	39	22	5	5	17	0	2	0	3	0	0	473
4	348	6	10	0	34	128	15	53	38	61	129	374	35	22	53	284	483	31	83	60	199	53	31	74	4	8	8	4	6	0	2614
5	743	9	18	35	0	199	10	22	6	46	51	97	35	23	38	182	312	31	52	81	214	34	43	62	3	20	15	19	9	0	2407
6	461	6	7	128	199	0	15	35	12	66	80	165	45	29	56	260	449	41	67	110	282	69	59	81	2	13	8	14	11	0	2747
7	552	2	3	13	10	15	0	96	1	109	75	50	48	17	36	155	384	55	99	143	75	33	8	54	0	4	2	1	4	0	2034
8	988	4	5	56	21	37	95	0	13	206	328	292	93	39	126	526	1230	125	291	277	209	39	23	120	1	6	3	3	5	0	5068
9	48	2	2	39	6	11	1	13	0	14	24	82	5	3	10	47	168	14	31	42	31	7	4	20	0	1	1	0	2	0	628
10	335	6	6	61	46	66	109	206	14	0	401	248	3004	669	269	881	2180	649	866	1529	453	182	53	1702	4	19	13	8	35	0	14003
11	460	6	10	128	52	79	74	328	23	401	0	693	559	346	292	1719	3924	388	874	747	596	101	46	1646	4	13	9	7	18	0	13413
12	216	13	26	375	98	165	50	294	62	249	693	0	399	318	243	1528	5704	398	804	1165	905	189	110	2558	7	23	14	14	30	0	16659
13	181	3	4	35	34	46	48	93	6	3002	560	398	0	3048	694	2931	4879	2177	3266	5369	1100	411	111	3985	8	45	32	15	99	0	32560
14	78	2	4	23	23	29	17	39	3	670	348	320	3047	0	1383	4770	6640	4364	5359	3385	1383	279	80	3441	8	28	16	8	60	0	35905
15	181	6	5	53	38	55	37	126	8	289	292	243	693	1384	0	4817	4855	969	2000	1329	747	136	46	1907	5	14	10	6	28	0	20236
16	674	18	26	284	183	249	155	526	48	870	1719	1527	2931	4771	4816	0	35055	4769	12084	8885	4449	911	214	8601	19	63	41	29	127	0	91753
17	2719	63	91	483	313	449	384	1231	168	2180	3925	5704	4878	6639	4856	35055	0	9907	22892	31226	35306	2178	748	34015	87	223	137	102	506	0	206255
18	144	8	9	31	31	40	55	126	14	649	358	397	2179	4363	970	4768	9907	0	13742	10989	1897	586	127	6489	10	40	25	12	118	0	66883
19	485	15	18	83	52	68	96	292	30	886	875	804	3267	5369	1999	12084	22892	13741	0	14246	4377	856	202	9317	22	86	40	25	173	0	92322
20	303	25	38	60	81	110	143	276	42	1538	746	1167	5369	3385	1329	8884	31226	10989	14246	0	5974	4604	531	21948	44	166	82	42	718	0	112064
21	513	16	23	200	213	283	76	209	22	453	597	903	1100	1384	747	4450	35307	1896	4378	5975	0	835	299	17348	43	78	42	34	193	0	77625
22	173	5	7	53	34	59	21	40	8	150	100	171	412	276	136	509	2178	597	855	4604	834	0	46	2379	6	11	8	5	907	0	14785
23	80	3	6	31	43	59	10	22	3	52	49	109	111	83	44	216	747	127	202	531	299	43	0	7306	13	4	2	2	12	0	10206
24	374	12	18	75	81	90	54	120	20	1763	1646	2567	3965	3441	1907	8600	34014	6489	9316	21947	17349	2379	7306	0	1063	33	23	16	597	0	124073
25	2	0	0	4	4	2	0	1	0	3	4	6	8	7	5	21	87	12	22	44	42	7	12	1063	0	1	1	0	2	0	1360
26	82	2	1	9	20	12	4	8	2	21	12	25	45	29	14	84	222	41	67	168	77	11	5	33	1	0	0	0	5	0	977
27	14	1	0	8	17	11	2	3	0	13	9	14	31	17	10	41	139	24	39	83	42	10	2	24	1	0	0	0	1	0	586
28	24	0	4	3	19	13	1	3	0	8	6	12	16	8	5	29	102	13	25	41	33	5	2	15	0	0	0	0	3	0	391
29	20	0	1	7	8	11	4	5	1	35	19	30	99	60	27	126	508	118	174	716	194	995	11	598	2	5	2	2	0	0	3776
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10609	501	477	2617	2406	2747	2033	6076	624	14000	13418	16651	32582	35804	20230	91755	28253	56885	92320	112068	77617	14785	10206	124078	1359	968	579	393	3778	0	962696

Table 4.2.2 (22) OD Matrices for Revised Case 3 in 2002

P.CAR OD TABLE FOR REVISED CASE 3 IN 2002

ZONE NO.	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	TOTAL
1	0	34	11	18	47	51	32	36	0	28	38	14	12	6	11	42	197	12	38	23	52	15	10	36	0	27	15	9	1	0	815
2	34	0	0	0	1	0	0	0	0	1	0	2	0	0	0	1	5	1	1	2	2	1	1	1	0	1	0	1	0	0	55
3	11	0	0	0	1	0	0	0	0	1	0	2	0	0	0	0	5	1	1	2	2	0	0	1	0	0	1	0	0	0	28
4	18	0	0	0	2	5	0	1	1	3	8	20	1	2	2	9	21	2	1	3	10	3	2	4	0	1	1	2	1	0	123
5	47	1	1	2	0	9	0	2	0	4	4	5	4	2	4	14	26	4	6	8	27	2	6	3	0	7	7	5	1	0	198
6	51	0	0	4	10	0	0	1	1	6	6	10	4	3	5	17	32	4	6	10	31	4	7	5	0	4	4	4	1	0	220
7	32	0	0	0	0	1	0	3	0	6	5	2	1	1	2	6	16	2	3	5	3	1	1	2	0	1	0	0	0	0	93
8	36	0	0	2	1	1	3	0	0	10	21	12	5	1	5	19	44	4	9	7	8	1	1	6	0	1	0	1	0	0	196
9	0	0	0	1	0	1	0	0	0	1	1	5	0	0	0	2	8	0	1	2	3	0	0	1	0	0	0	0	0	0	27
10	28	1	1	3	4	5	7	10	0	0	58	22	406	88	29	77	206	53	83	97	53	19	10	228	1	10	5	5	4	0	1626
11	38	1	0	7	4	6	5	21	1	58	0	90	80	43	36	212	478	37	92	62	71	13	8	210	1	7	5	3	3	0	1672
12	14	2	2	20	5	10	2	12	6	22	91	0	31	28	20	126	344	31	61	71	87	20	10	289	0	10	5	6	4	0	1629
13	12	1	0	1	4	4	1	3	0	406	80	31	0	515	80	302	422	277	371	332	116	48	20	528	0	23	15	6	13	0	3591
14	6	0	0	2	3	3	1	1	0	88	43	28	515	0	223	645	769	595	797	266	133	34	15	479	1	14	8	6	9	0	4674
15	11	0	0	2	4	4	2	5	0	29	36	19	80	223	0	595	532	93	231	98	80	15	7	235	0	8	4	3	5	0	2421
16	43	1	0	9	14	17	8	19	2	77	211	127	301	645	595	0	4048	422	1406	469	386	80	29	909	1	28	19	12	17	0	9989
17	197	5	5	21	26	32	16	44	8	206	478	643	422	769	532	4045	0	1029	2474	1666	4962	217	90	3414	4	96	61	46	67	0	21473
18	12	1	1	1	4	4	2	4	1	53	37	31	277	595	93	422	1029	0	2223	1094	196	58	23	786	1	21	10	6	19	0	6973
19	38	1	1	2	5	6	3	9	1	83	92	61	371	797	231	1407	2473	2223	0	1221	415	79	33	1107	1	32	19	10	25	0	10746
20	23	3	2	3	7	10	5	7	2	97	82	71	332	266	98	468	1865	1093	1221	0	563	310	80	2310	2	43	19	8	71	0	8821
21	52	2	1	10	27	31	3	8	3	83	70	88	116	133	80	386	4961	196	416	563	0	117	66	2103	3	42	23	16	30	0	9689
22	16	0	1	3	2	4	1	2	0	20	13	20	48	34	15	60	217	58	79	310	118	0	3	128	0	3	4	1	88	0	1248
23	10	1	0	2	5	7	1	1	0	9	8	10	20	15	7	28	96	22	33	60	56	3	0	560	0	3	1	0	1	0	962
24	38	1	1	5	3	4	3	6	1	239	210	289	528	479	235	909	3414	757	1107	2310	2103	128	560	0	29	13	8	6	48	0	13431
25	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	5	1	1	2	3	0	0	29	0	0	0	0	0	0	44
26	27	1	0	1	8	4	1	1	0	9	8	10	23	14	8	27	96	20	32	43	41	4	2	13	0	0	0	0	2	0	396
27	15	0	1	1	7	4	0	1	0	6	5	5	15	8	4	19	61	11	18	19	23	3	1	9	0	0	0	0	0	0	236
28	9	1	0	2	5	4	0	1	0	4	3	5	6	5	4	12	46	5	10	8	16	2	0	7	0	0	0	0	1	0	158
29	1	0	0	1	1	1	0	0	0	6	2	4	13	10	4	17	67	19	25	71	31	88	1	47	0	2	0	1	0	0	411
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	817	97	28	123	200	228	94	197	27	1525	1570	1628	3589	4674	2423	9968	21473	6972	10746	8820	9591	1245	964	13430	44	397	226	156	411	0	101532

TAXI OD TABLE FOR REVISED CASE 3 IN 2002

ZONE NO.	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	TOTAL
1	0	25	9	10	35	29	22	28	5	21	30	11	10	4	7	32	141	9	26	14	34	7	7	29	1	4	2	2	5	0	551
2	25	0	1	0	0	0	1	0	0	0	0	1	0	0	0	1	3	0	1	1	2	0	0	1	0	0	0	0	0	0	37
3	9	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	1	0	1	1	0	0	1	0	0	0	0	0	0	19
4	10	0	0	0	1	4	0	1	1	1	6	15	2	1	1	8	16	2	2	1	8	2	0	3	0	0	0	0	1	0	86
5	35	1	0	1	0	9	0	1	0	3	3	5	2	2	3	9	18	3	3	4	18	1	3	5	1	2	0	1	4	0	137
6	29	0	0	4	9	0	0	0	0	4	5	7	4	1	3	13	24	3	4	7	22	3	4	5	0	0	1	0	3	0	155
7	22	1	0	0	0	0	0	2	0	5	3	1	2	0	1	3	11	1	3	2	3	0	0	2	0	1	0	0	0	0	63
8	20	0	0	1	1	0	2	0	0	7	16	9	2	1	4	13	32	2	6	5	5	1	1	3	0	0	0	0	1	0	132
9	5	0	0	1	1	0	0	0	0	1	3	0	0	0	1	1	4	0	1	1	0	0	0	1	0	0	0	0	0	0	19
10	21	0	1	1	3	5	5	7	0	0	53	20	370	80	25	67	177	46	72	81	42	11	8	198	1	1	1	0	13	0	1307
11	31	0	1	1	5	5	3	15	1	53	0	84	53	37	32	189	424	32	81	61	60	8	5	158	1	1	1	2	7	0	1354
12	11	1	0	15	5	7	1	10	3	19	84	0	27	25	18	113	493	25	62	58	75	11	9	237	1	1	0	1	11	0	1310
13	10	0	0	2	3	4	1	2	0	370	54	27	0	462	71	286	364	246	328	298	89	27	13	436	1	3	1	2	36	0	3095
14	4	0	0	1	1	1	0	1	0	80	17	25	462	0	199	572	663	531	709	230	110	20	9	383	1	1	1	0	27	0	4068
15	8	0	0	1	3	3	1	3	1	25	32	18	71	199	0	613	470	81	205	84	66	8	5	187	1	2	0	0	12	0	2099
16	32	1	1	8	9	13	4	13	1	87	199	113	265	572	613	0	3568	372	1244	404	328	34	18	728	3	4	2	1	48	0	8655
17	141	3	2	16	18	24	10	33	4	177	424	492	366	663	470	3568	0	894	2177	1437	4388	127	67	2876	13	12	7	5	187	0	18590
18	9	0	1	1	3	3	2	2	0	46	31	26	248	531	81	371	894	0	1972	994	160	35	13	606	2	3	2	1	52	0	6068
19	26	1	0	2	3	5	3	6	1	71	82	52	328	709	205	1244	2177	1972	0	1101	350	48	21	886	4	3	2	2	68	0	9372
20	14	2	1	1	4	7	2	4	1	81	51	56	288	230	85	404	1437	994	1101	0	462	293	42	1928	5	6	4	1	221	0	7654
21	34	2	0	8	18	22	2	8	0	42	60	78	90	110	65	328	4388	160	360	462	0	66	37	1964	7	6	3	1	87	0	8383
22	8	0	1	2	1	3	0	1	0	11	8	10	27	20	8	34	127	35	48	223	66	0	3	129	1	0	1	0	307	0	1073
23	7	0	1	0	3	4	1	0	0	6	5	9	13	10	5	18	67	14	20	42	37	3	0	547	1	1	0	0	5	0	819
24	29	1	1	3	5	5	2	3	1	199	168	238	435	383	187	729	2876	606	886	1928	1954	128	547	0	129	4	3	1	249	0	11699
25	1	0	0	0	1	0	0	0	0	1	1	0	2	1	1	3	12	2	4	5	7	1	1	130	0	0	0	0	1	0	174
26	4	0	0	0	2	0	0	0	0	1	1	2	2	2	1	4	12	3	4	6	5	0	1	4	0	0	0	0	1	0	55
27	3	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	3	7	2	2	4	3	1	2	0	0	0	0	1	0	33
28	2	0	0	0	1	0	0	0	0	0	2	1	1	1	0	1	6	1	1	1	2	0	0	1	0	0	0	0	1	0	22
29	5	0	0	1	4	3	0	1	0	13	7	11	37	27	12	48	186	52	68	222	87	307	5	249	1	1	1	1	0	0	1349
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	566	39	20	86	136	167	82	131	19	1306	1354	1311	3094	4071	2099	8654	18589	6088	9370	7654	8384	1072	818	11697	174	56	32	21	1349	0	88395

Table 4.2.2 (23) OD Matrices for Revised Case 3 in 2002

BUS OD TABLE FOR REVISED CASE 3 IN 2002

ZONE NO.	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	TOTAL
1	0	12	4	13	22	20	13	14	4	8	11	8	4	2	6	17	64	4	13	6	16	2	2	7	0	6	2	1	1	0	276
2	12	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	3	0	1	0	1	0	0	1	0	0	1	0	0	0	22
3	4	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	10
4	13	0	0	0	1	2	0	0	1	1	1	4	0	0	3	9	6	0	2	0	3	1	0	2	0	0	0	0	0	0	49
5	23	0	1	1	0	5	0	0	0	3	1	1	1	1	0	4	7	1	1	1	7	0	1	1	0	1	1	1	0	0	63
6	20	0	0	2	5	0	0	1	0	1	2	3	2	1	1	4	11	1	3	3	8	1	1	2	0	1	1	1	0	0	75
7	13	0	0	0	0	1	0	1	0	1	1	1	1	0	0	2	6	0	2	2	1	0	0	1	0	0	0	0	0	0	33
8	15	0	0	0	1	0	1	0	0	3	4	3	1	1	2	7	14	2	4	3	3	0	1	1	0	1	0	0	0	0	67
9	4	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	10
10	9	1	0	1	3	1	1	3	0	0	8	5	47	16	6	17	43	12	18	19	12	3	1	33	0	1	1	0	1	0	261
11	11	1	0	1	1	2	2	4	0	8	0	11	12	8	6	34	76	9	19	13	13	2	2	32	1	0	0	1	1	0	270
12	5	1	1	1	1	2	1	3	1	5	11	0	6	7	4	24	86	7	14	13	17	2	2	41	0	1	1	0	1	0	261
13	4	0	0	0	1	2	1	1	0	47	11	7	0	71	15	59	88	52	70	62	24	8	2	72	1	1	2	0	3	0	604
14	2	0	0	0	1	1	0	1	0	17	5	6	71	0	34	107	145	95	127	56	31	6	2	78	0	1	1	0	3	0	794
15	5	1	0	3	0	1	0	2	0	6	6	5	15	34	0	92	95	20	43	21	18	1	2	40	1	0	1	0	1	0	413
16	17	0	1	9	4	4	2	6	1	16	34	24	59	106	92	0	603	90	236	101	84	10	5	164	1	4	1	2	5	0	1663
17	84	3	0	7	7	12	6	14	1	43	75	86	88	148	95	603	0	208	436	309	891	35	16	616	4	8	6	3	17	0	3599
18	4	0	1	0	1	1	0	2	1	12	9	7	52	95	20	90	208	0	307	185	45	11	3	121	1	1	1	1	5	0	1184
19	13	1	1	1	1	3	2	4	0	18	19	14	71	127	43	236	436	307	0	218	92	15	5	191	1	4	2	1	7	0	1833
20	5	1	0	0	1	3	2	3	0	19	13	15	82	56	21	101	309	185	218	0	106	50	7	284	1	4	1	1	20	0	1486
21	15	1	1	3	7	8	1	3	0	12	13	17	25	30	18	84	690	45	92	106	0	16	8	417	2	4	2	1	7	0	1628
22	2	0	0	1	0	1	0	1	0	3	2	2	7	6	2	10	35	11	15	50	16	0	1	20	0	1	0	0	25	0	211
23	2	0	0	0	1	2	0	1	0	1	2	2	2	3	1	5	17	3	5	7	8	1	0	103	0	1	0	1	0	0	168
24	8	1	0	1	1	2	1	1	0	33	32	40	72	78	40	164	616	121	191	284	417	20	103	0	30	1	1	1	16	0	2278
25	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	3	1	1	1	2	0	0	30	0	0	0	0	0	0	41
26	6	0	0	0	1	1	0	1	0	1	0	1	2	1	0	4	9	1	3	4	4	0	1	1	0	0	0	0	1	0	42
27	3	0	0	0	1	1	0	0	0	2	0	0	2	1	1	1	6	2	0	1	2	1	0	1	0	0	0	0	0	0	25
28	1	0	0	0	2	1	0	0	0	0	0	0	0	1	0	1	5	0	1	2	1	0	1	1	0	0	0	0	0	0	17
29	1	0	0	0	0	0	1	0	0	0	1	1	0	3	3	1	5	17	6	7	19	7	25	0	16	0	0	0	0	0	112
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	280	23	10	48	65	77	33	66	9	263	266	259	505	794	412	1583	3800	1184	1830	1486	1629	210	166	2276	43	41	25	15	114	0	17512

TRUCK OD TABLE FOR REVISED CASE 3 IN 2002

ZONE NO.	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	TOTAL
1	0	58	19	40	134	74	54	74	6	66	99	37	29	18	37	132	466	29	96	24	81	14	10	49	0	1	0	1	0	0	1648
2	59	0	0	1	2	1	0	0	0	2	2	3	1	0	1	5	15	2	4	4	4	1	0	2	0	0	0	0	0	0	108
3	19	0	0	0	3	0	1	0	0	0	2	3	0	0	1	5	11	2	2	2	3	0	1	1	0	0	0	0	0	0	96
4	40	1	0	0	3	12	1	3	0	9	14	25	5	3	6	32	49	2	8	3	23	3	3	6	0	0	0	0	0	0	261
5	134	2	2	4	0	40	0	1	0	9	12	17	5	4	8	33	48	5	8	5	29	7	5	15	0	0	1	0	1	0	396
6	75	1	0	12	40	0	1	3	2	14	20	33	8	6	12	51	80	8	12	8	48	9	9	18	0	0	1	0	0	0	467
7	54	0	1	1	0	1	0	2	0	11	7	4	6	2	6	18	40	7	12	8	10	1	1	4	0	0	0	0	0	0	194
8	74	0	0	3	2	3	1	0	1	15	19	16	7	4	12	43	95	14	29	17	21	2	2	8	0	0	0	0	0	0	388
9	6	0	0	0	0	2	1	1	0	2	3	4	1	1	2	5	17	3	4	3	4	0	1	1	0	0	0	0	0	0	61
10	88	2	0	9	9	14	10	15	2	0	97	69	383	192	80	237	539	168	247	221	128	24	11	286	0	1	1	0	0	0	2803
11	99	2	2	14	12	20	7	19	3	96	0	113	128	112	79	264	800	122	243	147	170	18	13	287	0	0	0	0	1	0	2871
12	37	3	3	25	17	32	5	16	5	69	112	0	84	87	62	300	918	99	191	136	198	22	24	349	1	0	0	0	0	0	2795
13	29	1	0	5	6	8	6	7	1	384	128	83	0	609	181	681	999	585	787	642	238	66	17	560	0	2	0	0	1	0	5964
14	18	1	0	3	4	6	2	4	1	191	112	88	609	0	309	1003	1585	859	1151	614	347	60	18	640	0	0	1	0	1	0	7627
15	27	1	1	6	8	13	4	12	1	80	80	61	181	309	0	745	1018	256	474	284	215	27	10	365	0	0	0	1	0	0	4170
16	133	4	5	32	32	51	19	43	5	238	364	300	662	1003	744	0	5206	1036	2174	1159	964	106	45	1468	2	1	0	0	2	0	15768
17	465	16	11	49	48	90	40	95	17	539	800	918	999	1584	1018	5206	0	2307	4254	3185	5440	361	137	5902	5	2	1	1	6	0	33476
18	29	2	2	2	6	7	7	14	2	168	122	99	685	860	256	1036	2307	0	2356	1803	613	133	24	986	1	1	0	0	2	0	11303
19	95	4	2	8	8	12	13	29	4	247	243	191	758	1151	474	2173	4254	2356	0	2175	993	177	40	1602	1	1	0	0	2	0	17012
20	24	4	2	3	6	8	8	18	3	221	147	136	642	616	264	1160	3185	1803	2175	0	975	675	42	1946	2	0	2	0	8	0	14073
21	81	5	3	23	28	46	9	21	4	127	170	108	239	347	218	954	5439	514	993	975	0	125	59	4579	4	0	1	0	2	0	15262
22	14	1	0	3	7	9	1	2	0	24	18	22	66	60	27	106	361	133	177	675	125	0	11	510	0	1	0	0	23	0	2365
23	10	0	1	3	5	9	0	2	1	11	13	24	18	18	10	45	137	24	40	42	59	11	0	1439	0	0	1	0	0	0	1923
24	49	2	2	6	15	16	4	8	1	296	297	350	580	639	365	1458	5902	986	1801	1946	4579	510	1439	0	112	1	1	0	18	0	21253
25	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	5	1	2	2	4	0	0	112	0	0	0	0	0	0	130
26	1	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	3	1	0	1	0	1	0	1	0	0	0	0	0	0	12
27	1	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	2	0	1	0	0	1	0	0	0	0	0	0	7
28	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	5
29	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	2	6	2	3	8	2	23	0	19	0	0	0	0	0	0	68
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1662	110	58	252	396	466	193	389	58	2803	2872	2785	5954	7626	4170	15787	33475	11304	17013	14071	16263	2366	1923	21253	128	11	9	4	67	0	162456

Table 4.2.2 (24) OD Matrices for Revised Case 3 in 2002

ALL VEHICLES OD TABLE FOR REVISED CASE 3 IN 2002

ZONE NO.	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	TOTAL
1	0	129	43	81	238	174	121	144	14	126	178	67	66	30	60	222	867	54	173	66	182	38	29	121	1	38	19	13	7	0	3290
2	129	0	1	1	4	1	1	0	0	3	3	6	1	0	2	7	26	3	7	7	9	2	1	5	0	1	1	1	0	0	222
3	43	1	0	0	5	0	1	0	0	2	2	7	0	0	1	6	19	4	4	5	7	0	2	2	0	0	1	0	0	0	113
4	81	1	0	0	7	21	1	5	3	14	29	64	8	6	12	58	92	6	13	7	44	9	5	15	0	1	1	2	2	0	509
5	239	4	4	8	0	63	0	4	0	19	20	28	12	9	15	60	98	13	18	16	81	10	16	24	1	10	9	7	8	0	793
6	175	1	0	22	64	0	1	5	3	25	33	53	18	11	21	86	147	16	25	28	107	17	21	28	0	5	6	6	4	0	927
7	121	1	1	1	0	3	0	8	0	23	16	8	9	3	8	29	73	10	20	17	17	2	2	9	0	2	0	0	0	0	383
8	145	0	0	6	6	4	7	0	1	36	60	49	13	7	23	82	186	22	48	32	37	4	6	18	0	2	0	1	1	0	783
9	15	0	0	3	0	3	1	1	0	3	6	14	1	1	3	9	30	4	6	7	7	0	1	3	0	0	0	0	0	0	127
10	125	4	2	14	19	25	23	35	2	0	218	106	1206	376	140	398	986	279	420	418	235	57	28	756	2	13	9	6	18	0	5896
11	179	4	3	28	20	33	17	59	6	218	0	298	253	200	183	799	1778	200	435	273	314	41	28	697	3	8	6	6	12	0	6067
12	87	7	6	64	28	51	9	41	15	106	298	0	148	147	104	563	2041	162	318	275	377	55	46	916	2	12	6	7	16	0	5885
13	66	2	0	8	13	18	8	13	1	1207	253	148	0	1667	347	1287	1863	1140	1526	1324	467	149	52	1596	2	29	16	8	53	0	13244
14	30	1	0	6	9	11	3	7	1	376	200	147	1667	0	765	2327	3152	2091	2784	1166	621	120	44	1580	2	16	11	6	40	0	17163
15	61	2	1	12	15	21	7	22	2	140	154	103	347	765	0	2145	2115	450	953	467	380	51	24	927	2	10	5	4	18	0	9103
16	225	6	7	58	59	86	31	81	9	400	798	564	1287	2326	2144	0	13423	1920	5060	2132	1762	210	98	3289	7	37	22	15	72	0	38099
17	887	27	18	93	99	148	72	186	30	965	1777	2039	1864	3152	2115	13422	0	4438	9341	6598	15481	730	319	12808	26	118	76	56	277	0	77138
18	64	3	6	4	14	15	11	22	4	279	199	163	1139	2081	450	1919	4438	0	6858	4076	914	237	63	2468	5	26	13	7	78	0	25645
19	173	7	4	13	17	26	21	48	6	419	436	318	1526	2784	953	5060	9340	6858	0	4715	1850	319	99	3786	7	40	23	13	102	0	38963
20	66	10	5	7	17	28	17	32	6	418	273	276	1324	1167	466	2133	6596	4075	4715	0	2106	1258	151	6469	10	53	26	10	320	0	32034
21	182	10	5	44	80	107	15	38	7	234	313	378	470	620	379	1752	15478	915	1851	2106	0	324	160	9163	16	52	29	18	126	0	34862
22	40	1	2	9	10	17	2	6	0	58	41	54	147	120	52	210	730	237	319	1258	325	0	18	786	1	6	6	1	443	0	4897
23	29	1	2	5	14	22	2	4	1	27	28	45	53	46	23	96	320	63	98	151	160	18	0	2649	1	8	2	1	6	0	3872
24	122	5	4	16	24	27	10	17	3	757	697	917	1696	1579	927	3270	12808	2469	3785	6468	9153	786	2649	0	300	19	13	8	331	0	48858
25	1	0	0	0	2	0	0	0	0	2	2	1	2	2	2	7	25	5	8	10	16	1	1	301	0	0	0	0	1	0	389
26	38	1	0	1	11	5	1	2	0	12	19	13	28	17	9	36	120	25	39	54	50	5	4	19	0	0	0	0	4	0	504
27	22	0	1	1	9	6	0	1	0	10	6	5	18	11	5	23	74	15	20	26	28	6	2	12	0	0	0	0	1	0	301
28	13	1	0	2	8	6	0	1	0	4	5	7	7	7	6	14	58	6	12	11	20	2	1	9	0	0	0	0	2	0	202
29	7	0	0	2	6	5	0	1	0	19	10	15	54	41	17	72	276	78	103	320	127	443	8	331	1	3	1	2	0	0	1940
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3304	229	114	508	797	927	382	783	113	5896	6062	5883	13242	17166	9104	36092	77137	25548	38969	32031	34867	4993	3871	48686	389	505	301	195	1940	0	366894

Table 4.2.2 (25) OD Matrices for Revised Case 3 in 2007

P.CAR OD TABLE FOR REVISED CASE 3 IN 2007

ZONE NO.	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	TOTAL
1	0	41	16	26	78	78	54	56	7	38	62	19	18	8	15	57	291	17	52	38	73	23	14	44	0	35	19	11	2	0	1179
2	41	0	1	0	1	0	0	1	0	1	0	1	1	0	0	1	6	1	2	3	2	0	1	1	0	0	1	0	0	0	65
3	16	1	0	0	1	0	0	1	0	0	2	2	0	0	1	2	8	1	1	4	3	1	1	2	0	1	0	0	0	0	47
4	26	1	0	0	2	8	1	3	3	4	12	36	3	1	4	17	36	1	3	5	17	6	3	8	0	2	2	2	0	0	205
5	78	1	1	2	0	18	0	1	0	8	5	9	6	4	5	21	40	5	7	13	38	3	7	4	0	11	7	6	2	0	302
6	78	0	1	8	18	0	1	2	1	8	8	16	7	5	5	28	53	6	10	17	49	8	9	6	0	7	5	6	1	0	363
7	54	0	0	1	0	1	0	5	1	12	8	4	4	1	3	16	29	3	6	10	6	3	2	6	0	1	0	1	0	0	170
8	56	1	1	3	1	2	5	0	1	18	35	25	6	2	9	33	83	6	17	15	13	4	1	9	0	1	2	1	0	0	349
9	7	0	0	3	0	1	1	1	0	1	2	10	0	0	1	3	14	1	2	3	2	2	0	3	0	1	0	0	0	0	58
10	38	1	0	4	8	9	11	18	1	0	72	32	537	107	36	102	282	74	108	150	67	29	11	308	0	12	8	5	5	0	2035
11	62	1	1	12	5	8	8	36	2	72	0	122	76	50	44	270	634	43	116	95	86	19	9	266	0	8	5	4	3	0	2046
12	19	1	3	36	9	16	4	24	10	31	122	0	45	36	28	177	798	43	86	115	119	29	13	404	0	12	9	6	4	0	2198
13	19	0	0	3	6	7	4	6	0	638	76	45	0	633	104	406	592	342	497	526	150	70	25	693	1	28	18	9	15	0	4813
14	8	0	0	2	4	4	1	2	0	107	49	36	632	0	262	785	960	859	982	431	166	44	18	576	0	16	10	5	11	0	5941
15	15	0	1	3	5	6	3	9	1	36	44	28	104	261	0	897	714	133	295	150	97	21	9	301	1	8	6	3	5	0	3156
16	87	2	2	17	21	28	10	33	4	101	270	178	406	785	897	0	5634	635	1869	736	493	87	33	1214	1	33	22	15	20	0	13602
17	291	6	7	36	40	64	29	83	14	282	634	298	592	961	714	5634	0	1306	3419	2722	6601	325	128	4740	8	122	77	57	84	0	29764
18	17	1	1	2	5	5	3	7	0	74	44	42	342	958	133	635	1306	0	2693	1564	230	78	25	894	1	23	12	7	21	0	9028
19	52	2	2	3	7	10	6	17	2	107	116	86	498	962	295	1869	3419	2693	0	1902	527	112	40	1448	1	38	22	13	30	0	14279
20	36	4	4	4	13	17	10	15	3	151	94	116	525	432	148	737	2722	1568	1902	0	846	524	88	3555	3	62	28	14	100	0	13724
21	73	2	3	17	38	49	6	13	2	67	86	138	150	156	97	493	6601	229	527	845	0	161	65	2539	5	48	26	19	36	0	12470
22	23	1	1	6	3	7	3	4	1	29	18	29	70	45	21	87	328	79	112	524	161	0	5	184	0	6	3	3	112	0	1662
23	14	1	0	3	8	9	2	1	1	11	9	13	25	18	9	33	129	25	40	89	65	8	0	822	0	2	3	0	2	0	1339
24	44	2	2	8	4	6	6	9	2	308	266	404	694	576	300	1214	4740	894	1448	3555	2539	184	822	0	49	16	10	7	57	0	18166
25	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	8	1	2	3	4	0	1	48	0	0	0	0	0	0	71
26	36	0	1	3	10	7	1	1	1	12	8	11	28	17	8	34	121	23	38	62	48	6	2	15	0	0	0	0	1	0	493
27	19	1	1	2	7	5	0	2	0	9	4	9	18	10	5	22	78	12	22	28	26	3	2	10	0	0	0	0	1	0	296
28	11	0	0	2	6	6	1	1	0	5	4	6	10	6	3	15	66	7	13	16	19	3	0	8	0	0	0	0	1	0	198
29	2	0	0	0	2	2	0	0	0	5	3	5	16	11	5	20	84	21	30	100	35	112	2	57	0	1	1	1	0	0	514
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1180	70	48	205	302	363	199	350	57	2038	2043	2200	4813	5944	3154	13603	29762	9028	14279	13725	12470	1862	1337	18165	70	493	296	196	513	0	138733

TAXI OD TABLE FOR REVISED CASE 3 IN 2007

ZONE NO.	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	TOTAL
1	0	33	11	17	62	62	44	41	6	33	45	15	15	6	12	44	228	12	38	28	51	14	9	40	1	6	3	1	7	0	872
2	33	0	0	1	0	1	0	0	0	1	0	1	0	0	0	1	4	0	1	3	1	1	0	1	0	0	0	0	1	0	50
3	11	0	0	0	1	0	1	0	0	1	1	2	0	0	0	1	7	1	1	3	1	1	1	2	0	0	0	0	0	0	35
4	17	1	0	0	2	7	0	2	1	4	9	30	1	2	3	12	28	2	3	3	11	3	3	6	1	0	0	0	1	0	152
5	62	0	1	2	0	17	0	1	0	5	5	8	4	3	3	16	29	3	5	8	27	3	4	6	0	1	1	2	4	0	219
6	62	1	0	7	16	0	2	0	1	6	7	14	5	3	6	21	42	4	7	13	34	5	7	8	1	1	0	1	4	0	268
7	44	0	1	0	0	1	0	5	0	9	6	3	2	1	1	8	20	2	5	5	5	1	1	4	0	0	0	0	1	0	125
8	41	1	0	2	1	1	4	0	0	14	27	18	5	2	6	24	62	5	12	10	10	1	1	6	0	0	1	0	1	0	256
9	6	0	0	2	0	0	0	0	0	1	2	9	0	0	1	3	11	1	1	2	2	0	0	2	1	0	0	0	0	0	44
10	33	1	0	4	5	6	9	14	1	0	66	28	494	96	33	88	240	64	93	124	53	16	7	257	1	2	0	0	15	0	1749
11	46	0	1	9	6	7	6	27	2	65	0	113	69	43	39	241	560	38	102	75	73	11	6	215	1	1	1	0	9	0	1764
12	16	1	2	30	8	14	3	18	9	28	113	0	38	31	24	160	719	35	74	91	102	17	10	335	2	1	1	1	14	0	1896
13	15	0	0	2	4	5	2	5	0	494	69	38	0	571	93	381	501	384	443	455	119	40	16	584	1	4	2	1	45	0	4174
14	8	0	0	2	3	3	1	2	0	95	43	32	571	0	233	693	824	762	853	372	128	27	10	451	2	2	1	1	30	0	5167
15	12	0	0	3	3	5	2	6	1	31	29	23	94	233	0	791	630	116	263	126	83	11	6	243	1	1	0	1	13	0	2739
16	44	1	2	12	15	21	8	24	4	88	241	166	360	694	791	0	4948	568	1652	627	425	51	21	976	4	4	3	2	56	0	11792
17	228	5	6	28	29	42	20	62	11	240	561	719	601	834	630	4948	0	1129	2997	2310	5901	196	81	3970	21	15	10	6	230	0	25729
18	12	0	1	2	3	4	2	6	1	64	37	35	304	762	118	568	1128	0	2388	1405	188	50	15	719	3	3	1	1	57	0	7862
19	38	1	2	5	8	7	4	12	1	93	103	74	443	853	283	1652	2997	2388	0	1696	461	70	25	1164	5	5	3	2	80	0	12437
20	27	2	3	3	8	13	5	10	2	124	75	91	454	372	128	628	2311	1406	1695	0	695	388	55	2959	10	8	5	2	304	0	11781
21	61	2	1	12	27	34	5	10	2	53	73	102	119	129	83	426	5900	188	461	695	0	94	42	2266	12	6	4	2	99	0	10887
22	14	1	0	3	3	6	1	1	0	16	11	17	40	27	12	50	196	50	70	387	95	0	4	193	1	1	0	0	406	0	1604
23	9	0	1	2	4	7	1	1	0	8	5	10	16	9	6	22	81	18	25	55	42	4	0	815	3	0	0	0	6	0	1147
24	40	2	2	8	6	8	4	6	2	257	215	235	585	461	243	975	3970	719	1164	2959	2266	193	815	0	219	4	3	2	297	0	15756
25	1	0	0	1	0	1	0	0	0	1	1	1	2	2	1	4	21	3	5	10	12	1	3	220	0	0	0	0	2	0	292
26	6	0	0	0	2	1	0	0	0	2	1	2	4	2	1	4	15	3	5	9	6	1	0	3	1	0	0	0	1	0	69
27	3	0	0	0	1	0	0	1	0	0	0	1	3	1	0	3	10	2	2	5	5	0	1	3	0	0	0	0	0	0	41
28	1	0	0	0	2	1	0	0	0	1	0	2	1	1	0	3	6	0	3	2	2	0	0	2	0	0	0	0	1	0	28
29	7	1	0	1	4	5	1	1	0	15	9	14	45	30	13	56	229	58	80	393	100	405	6	297	2	1	1	1	0	0	1685
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	973	53	34	164	220	268	125	264	44	1751	1763	1897	4173	5168	2739	11791	25727	7866	12436	11778	10888	1603	1148	15757	293	66	40	26	1684	0	120619

Table 4.2.2 (26) OD Matrices for Revised Case 3 in 2007

BUS OD TABLE FOR REVISED CASE 3 IN 2007

ZONE NO.	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	TOTAL
1	0	12	4	13	27	27	17	19	0	10	14	6	4	3	5	19	94	6	16	9	20	3	2	8	0	6	4	1	1	0	339
2	12	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	3	0	1	1	1	0	0	1	0	0	0	0	0	0	21
3	4	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	3	0	0	1	1	0	0	1	0	0	0	0	0	0	13
4	13	0	1	0	1	2	0	1	2	1	3	6	2	0	4	14	9	1	1	1	5	0	1	2	0	0	0	1	0	0	71
5	27	0	1	0	0	1	0	1	0	3	1	3	2	1	0	4	11	1	3	2	9	0	1	2	0	1	1	1	0	0	83
6	27	0	0	3	7	0	0	1	0	3	3	6	1	2	0	5	17	1	3	3	12	1	2	1	0	1	0	1	0	0	100
7	17	0	0	0	1	0	0	1	0	2	1	1	1	0	0	4	8	1	3	3	1	1	0	1	1	0	1	0	0	0	44
8	19	0	0	1	1	1	1	0	0	5	6	4	2	1	3	10	23	2	6	5	8	1	1	2	0	1	0	0	0	0	100
9	0	0	0	0	2	0	0	1	0	1	0	2	0	0	0	1	6	0	1	1	1	0	0	1	0	0	0	0	0	0	16
10	16	0	0	0	2	2	0	2	1	0	11	6	62	19	8	23	58	17	24	29	15	4	1	46	0	1	0	1	1	0	349
11	14	1	0	0	3	1	2	1	0	11	0	15	14	10	8	44	101	10	24	19	18	3	1	42	1	1	1	0	1	0	384
12	6	1	0	0	8	3	3	1	1	4	2	6	15	0	10	7	6	34	125	10	20	21	24	4	2	59	1	1	0	1	1	0	375
13	4	0	0	0	2	1	1	1	2	0	62	14	10	0	88	19	80	122	66	94	98	30	10	3	98	0	3	2	0	4	0	815
14	3	0	0	0	0	1	2	0	1	0	20	10	7	89	0	39	131	183	128	155	86	37	8	2	97	0	2	1	1	3	0	1005
15	5	1	0	4	0	1	0	3	0	8	8	6	19	40	0	119	127	28	55	32	22	4	1	53	0	2	0	0	2	0	539
16	19	1	0	14	4	5	4	10	1	23	45	34	80	130	120	0	838	131	313	157	112	15	6	226	1	4	2	1	5	0	2301
17	84	3	3	9	10	17	8	25	5	57	101	125	122	183	127	838	0	266	597	497	942	52	19	867	6	11	8	5	20	0	5004
18	5	1	0	1	2	1	1	2	1	17	10	10	56	128	28	130	266	0	376	265	56	15	4	150	1	2	1	0	8	0	1565
19	16	1	0	1	2	3	3	6	0	25	24	20	94	154	65	313	597	377	0	334	119	21	6	256	2	3	3	2	8	0	2443
20	9	1	1	1	2	3	3	6	2	29	19	21	96	85	32	157	498	264	334	0	162	86	9	448	2	6	3	1	27	0	2305
21	20	1	1	5	9	12	1	6	1	15	18	24	33	37	22	115	941	56	119	162	0	22	9	481	2	4	3	1	8	0	2125
22	3	1	0	0	0	1	1	1	0	4	3	3	10	8	4	15	62	15	22	86	22	0	1	32	1	0	1	1	32	0	319
23	2	0	0	1	1	2	0	1	0	1	2	2	3	2	2	6	19	4	6	10	8	1	0	156	1	0	0	0	0	0	229
24	8	1	1	2	1	1	1	2	1	45	42	59	98	97	53	226	866	150	256	448	481	32	156	0	50	2	1	2	19	0	3100
25	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	5	1	2	2	2	1	0	51	0	0	0	0	0	0	68
26	6	0	1	0	1	1	1	0	0	1	1	1	3	2	2	3	11	2	4	5	4	1	0	2	0	0	0	0	0	0	52
27	4	0	0	0	2	0	0	0	0	0	1	1	2	1	0	2	8	1	2	3	2	1	0	1	0	0	0	0	0	0	31
28	1	0	0	1	1	1	0	0	0	1	0	1	0	1	1	1	6	0	2	1	1	0	1	1	0	0	0	0	0	0	21
29	1	0	0	0	0	0	1	0	0	0	1	1	1	3	1	6	20	6	9	27	8	32	0	20	0	0	0	0	0	0	140
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	339	25	13	72	81	101	48	98	17	352	354	373	816	1002	540	2360	5006	1543	2448	2305	2123	318	227	3103	68	50	32	20	139	0	23911

TRUCK OD TABLE FOR REVISED CASE 3 IN 2007

ZONE NO.	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	TOTAL
1	0	64	30	65	181	117	88	119	10	91	132	48	40	22	49	174	676	38	130	39	127	18	8	66	0	2	1	1	0	0	2336
2	64	0	0	1	3	1	0	1	0	2	2	5	0	1	1	5	20	2	5	5	5	1	0	3	0	0	0	0	0	0	127
3	30	0	0	1	3	1	0	1	0	2	3	4	1	1	2	6	19	1	5	4	4	1	1	3	0	1	0	0	0	0	94
4	65	1	1	0	6	21	2	5	3	11	21	41	9	4	10	53	81	6	10	6	39	4	4	9	0	0	0	0	0	0	409
5	182	2	4	6	0	63	1	3	1	14	16	28	7	6	12	51	79	8	12	10	46	10	5	21	0	0	0	2	0	0	589
6	117	2	1	21	63	0	2	7	2	21	27	50	11	9	18	76	127	11	19	14	72	13	7	24	1	0	0	0	0	0	715
7	88	0	0	2	1	2	0	4	1	17	12	8	8	4	7	31	71	10	22	17	17	2	1	7	0	0	0	0	0	0	332
8	119	1	1	5	3	7	4	0	1	28	31	30	12	7	20	77	176	25	52	34	39	4	2	13	0	0	0	0	0	0	690
9	10	0	1	2	2	2	1	1	0	2	4	9	1	1	2	11	32	4	7	6	7	1	1	3	0	0	0	0	0	0	110
10	91	2	2	11	14	20	17	28	2	0	118	78	489	225	98	308	712	229	313	326	170	31	10	394	0	0	0	1	0	0	3680
11	132	2	2	21	16	27	12	32	4	118	0	144	160	130	96	460	1036	142	381	213	221	22	11	384	0	0	1	0	0	0	3666
12	49	4	4	42	28	61	8	30	9	78	145	0	113	110	79	412	1041	136	235	216	280	29	23	509	0	1	0	1	0	0	3502
13	40	1	1	6	7	11	7	12	1	489	160	113	0	741	227	876	1360	692	985	973	327	87	16	791	1	0	0	0	1	0	7925
14	22	1	1	4	6	9	4	7	1	225	150	119	741	0	363	1239	2006	1101	1393	953	442	76	14	848	0	1	0	0	1	0	9859
15	49	1	2	10	12	17	8	20	2	98	95	79	227	363	0	948	1331	334	593	387	283	34	9	494	0	0	0	0	0	0	5396
16	174	6	6	52	52	76	31	77	11	307	480	412	876	1240	948	0	7180	1435	2866	1784	1322	145	40	2095	2	2	1	1	2	0	21603
17	676	19	19	81	79	127	71	174	33	712	1035	1291	1360	2006	1331	7180	0	2937	5755	5026	7736	487	126	8356	8	2	1	1	7	0	46634
18	38	3	1	6	8	11	11	25	4	220	142	136	693	1100	335	1435	2937	0	2870	2567	658	177	20	1272	0	0	1	1	2	0	14963
19	130	5	5	10	12	19	21	52	7	313	301	255	985	1394	592	2867	5754	2870	0	3281	1350	235	35	2196	2	1	1	0	3	0	22686
20	39	5	4	6	10	14	17	34	6	327	213	214	973	952	387	1784	6026	2567	3281	0	1648	1045	42	3186	3	1	2	0	11	0	21687
21	127	5	5	39	45	72	17	38	7	170	221	280	327	443	283	1323	7736	668	1380	1648	0	175	54	4990	4	1	0	1	2	0	19921
22	18	1	1	4	10	14	2	4	1	32	21	30	87	74	34	144	487	177	236	1045	175	0	11	761	1	1	0	0	28	0	3586
23	8	1	0	4	6	7	1	2	1	9	12	22	16	14	10	40	126	21	34	43	54	11	0	2129	1	1	0	0	0	0	2573
24	66	2	3	9	21	24	7	13	3	394	364	509	791	840	493	2095	9364	1272	2186	3186	4990	760	2129	0	184	2	1	1	24	0	29733
25	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2	8	0	3	3	4	1	1	184	0	0	0	0	0	0	210
26	2	0	1	0	0	0	0	0	0	0	0	1	0	1	0	2	2	0	1	1	1	1	0	2	0	0	0	0	0	0	15
27	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	1	0	2	0	0	0	1	0	0	0	0	0	0	9
28	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	6
29	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	3	7	2	3	11	3	28	0	24	0	0	0	0	0	0	85
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2338	129	95	408	589	714	332	649	110	3681	3586	3900	7926	9690	5396	21604	46633	14661	22686	21689	19926	3387	2870	28736	207	16	9	10	81	0	221892

Table 4.2.2 (27) OD Matrices for Revised Case 3 in 2007

ALL VEHICLES OD TABLE FOR REVISED CASE 3 IN 2007

ZONE NO.	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	TOTAL
1	0	150	60	120	348	274	203	234	23	172	243	88	77	39	81	294	1279	72	236	112	271	58	33	157	1	49	27	14	16	0	4725
2	156	0	1	2	4	2	0	2	0	4	3	7	1	1	2	7	33	3	9	12	9	2	1	8	0	0	1	0	1	0	253
3	60	1	0	2	6	1	1	2	0	3	6	8	1	1	3	10	37	3	7	12	9	3	3	8	0	2	0	0	0	0	199
4	120	3	2	0	11	38	3	11	9	20	45	113	12	7	21	96	154	10	17	16	72	13	11	25	1	2	2	3	1	0	837
5	349	3	7	10	0	106	1	8	1	30	27	48	19	14	20	91	159	17	27	33	120	16	17	33	0	13	9	11	8	0	1193
6	274	3	2	39	104	0	5	10	4	38	45	85	24	19	29	130	239	22	39	47	167	27	25	39	2	9	5	8	6	0	1446
7	203	0	1	3	2	4	0	15	2	40	27	16	15	6	11	53	128	16	36	35	28	7	4	18	1	1	1	1	1	0	675
8	234	3	2	11	6	11	14	0	2	66	99	77	26	12	38	144	343	38	87	64	67	10	8	30	0	2	3	1	1	0	1394
9	23	0	1	0	2	3	3	2	0	6	8	30	1	1	4	18	62	6	11	12	12	3	1	9	1	1	0	0	0	0	228
10	172	4	2	21	29	38	39	64	6	0	266	144	1582	447	175	521	1292	376	538	629	306	80	29	1004	1	15	8	7	21	0	7813
11	243	4	4	45	28	45	27	101	9	266	0	394	319	233	167	1015	2330	233	543	402	397	56	26	907	2	10	6	4	13	0	7860
12	89	7	9	114	48	86	16	76	30	143	395	0	206	183	137	783	2933	224	426	442	525	79	48	1307	3	15	10	9	19	0	8371
13	78	1	1	13	18	24	14	25	1	1583	319	206	0	2033	443	1723	2575	1404	2019	2050	629	207	60	2166	3	35	22	10	66	0	17727
14	39	1	1	8	14	19	6	12	1	447	232	185	2033	0	897	2848	3983	2850	3363	1841	763	154	44	1974	2	21	12	8	45	0	21802
15	81	2	3	20	20	29	13	38	4	175	196	135	444	897	0	2755	2802	611	1206	695	485	70	25	1091	2	11	6	4	20	0	11930
16	294	10	10	95	92	130	53	144	20	819	1016	784	1722	2849	2756	0	18600	2759	6760	3304	2362	298	100	4511	8	43	28	19	83	0	49299
17	1279	33	35	154	156	240	128	342	63	1291	2331	2933	2575	3984	2801	18600	0	5638	12768	10556	21180	1669	354	17932	42	150	96	69	341	0	107131
18	72	5	3	11	18	21	17	39	6	375	233	223	1406	2848	612	2758	5637	0	8325	5796	1132	320	65	3035	5	28	15	9	86	0	33098
19	236	9	9	17	26	39	24	67	10	539	544	435	2029	3363	1206	6781	12767	8326	0	7212	2447	438	105	5063	10	47	29	17	121	0	51846
20	113	12	12	14	33	47	36	64	12	631	401	442	2049	1841	694	3306	10557	5795	7212	0	3251	2043	194	10149	18	76	38	17	442	0	49497
21	271	10	10	73	119	167	28	68	12	306	398	524	629	766	486	2364	21178	1131	2447	3250	0	432	170	10276	23	59	33	23	145	0	45403
22	58	4	2	13	16	27	7	10	2	81	53	79	267	154	71	296	1060	321	429	2042	453	0	21	1160	3	8	4	4	578	0	7173
23	33	2	1	10	19	25	4	5	2	29	28	47	60	43	27	101	355	65	194	197	169	21	0	3922	5	3	3	0	8	0	5298
24	158	7	8	25	32	39	18	30	8	1004	907	1307	2166	1974	1089	4510	17930	3036	6053	10148	10276	1159	3922	0	502	23	15	12	397	0	65754
25	1	0	0	1	0	2	1	0	0	4	1	2	4	3	2	8	42	5	12	18	22	3	5	503	0	0	0	0	2	0	641
26	49	0	0	3	13	9	2	1	1	15	10	15	35	22	11	43	149	28	48	77	59	9	2	22	1	0	0	0	2	0	629
27	27	1	1	2	10	5	0	3	0	9	6	12	23	12	5	29	96	16	26	38	33	4	3	15	0	0	0	0	1	0	377
28	14	0	0	3	10	8	1	1	0	7	4	10	11	8	4	19	68	8	18	19	22	3	1	12	0	0	0	0	2	0	253
29	10	2	0	1	8	8	1	1	0	21	13	21	64	45	19	85	340	87	122	441	146	577	8	398	2	2	2	2	0	0	2424
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4730	277	190	639	1192	1446	674	1391	228	7820	7846	8370	17728	21804	11829	49298	1	7128	33098	51847	49497	45401	7170	5292	65761	638	625	377	252	2417	0	606156

Table 4.2.2 (28) OD Matrices for Revised Case 3 in 2017

P. CAR OD TABLE FOR REVISED CASE 3 IN 2017

ZONE NO.	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	TOTAL
1	0	59	26	58	148	112	98	125	6	58	80	37	32	13	24	102	480	25	83	72	106	55	27	84	0	47	25	15	7	0	1996
2	59	0	1	1	1	1	0	0	0	1	1	2	0	0	1	2	10	1	3	7	3	1	1	3	0	1	0	0	0	0	100
3	26	1	0	1	4	1	0	1	1	2	2	6	1	0	1	4	15	2	3	7	4	2	1	4	0	1	0	0	0	0	89
4	58	1	2	0	4	16	2	6	7	9	23	52	4	3	7	35	77	3	8	11	23	16	7	16	0	4	4	3	2	0	444
5	148	1	4	4	0	31	1	3	0	13	11	21	10	7	11	44	84	10	16	31	72	7	17	9	1	17	12	12	1	0	567
6	112	1	1	17	31	0	1	3	2	13	13	29	11	6	11	46	86	10	15	32	72	13	19	11	1	8	6	9	2	0	581
7	98	0	1	2	1	1	0	16	0	23	16	8	10	2	5	23	62	7	14	24	12	6	2	13	0	2	1	0	1	0	350
8	125	1	0	6	3	3	16	0	3	35	71	56	14	4	18	73	181	13	35	38	26	9	4	21	0	4	1	1	1	0	762
9	6	0	2	7	0	1	0	3	0	1	6	22	1	0	2	7	30	2	4	8	5	1	0	5	0	0	1	0	0	0	114
10	58	1	1	9	13	14	23	35	1	0	114	67	1081	162	67	178	482	134	177	363	102	56	20	527	1	15	11	6	9	0	3704
11	80	1	2	24	10	13	15	71	6	114	0	228	143	76	72	474	1103	68	196	176	133	37	14	464	1	11	8	5	4	0	3548
12	38	1	6	81	22	29	8	56	22	57	228	0	91	66	52	364	1625	80	168	297	216	67	33	923	2	19	14	10	7	0	4482
13	32	1	1	4	10	11	10	14	2	1081	143	91	0	953	164	693	1139	530	810	1408	258	134	46	1277	1	37	25	12	25	0	8912
14	13	0	1	3	7	6	2	4	0	162	77	66	953	0	412	1357	1822	1332	1563	784	293	85	31	1000	1	23	14	8	15	0	9814
15	24	1	1	7	11	11	8	18	1	67	72	52	164	413	0	1593	1262	213	502	286	152	44	15	531	0	12	8	5	7	0	6464
16	102	2	4	37	43	46	23	74	7	176	474	364	692	1337	1593	0	10753	1112	3429	1512	975	186	69	2320	3	52	33	23	31	0	25472
17	480	10	18	77	84	86	62	181	30	481	1103	1626	1139	1622	1262	10753	0	2271	6226	8401	11167	696	257	8999	17	183	116	86	126	0	67549
18	26	1	3	3	10	10	7	13	2	134	69	79	530	1032	214	1112	2271	0	4602	2933	393	154	50	1611	2	35	19	10	29	0	15654
19	83	3	3	8	16	16	13	35	4	177	195	168	810	1563	502	2429	6228	4502	0	3730	983	229	78	2671	3	55	33	19	43	0	25598
20	72	7	10	11	31	32	25	38	8	363	175	298	1408	783	285	1512	8401	2933	3729	0	1537	1206	241	7594	8	137	79	38	162	0	31112
21	106	3	5	33	72	72	12	26	5	103	133	216	288	293	182	975	11167	393	983	1537	0	308	114	4301	8	68	34	28	47	0	21439
22	55	2	3	16	7	13	6	9	1	56	37	67	134	88	43	186	696	154	229	1206	308	0	13	395	1	8	7	4	192	0	3453
23	27	1	1	7	17	19	2	4	0	20	14	33	46	30	15	70	257	50	77	242	114	14	0	1601	2	4	1	2	3	0	2673
24	81	3	5	16	9	11	13	21	5	527	464	823	1278	1000	531	2320	9999	1611	2671	7544	4301	394	1601	0	104	23	15	12	88	0	34518
25	0	0	0	0	1	1	0	0	0	0	1	2	1	1	0	3	17	2	3	8	7	1	3	103	0	0	0	0	0	0	154
26	47	1	1	4	17	8	2	5	0	16	11	19	37	23	12	51	184	34	55	137	66	8	4	23	0	0	0	0	2	0	766
27	25	0	0	4	12	7	1	2	1	11	8	14	24	14	8	34	116	19	33	70	34	7	1	16	0	0	0	0	1	0	463
28	15	0	1	3	12	9	0	1	0	7	4	11	12	8	4	23	86	10	19	36	27	5	2	12	0	0	0	0	1	0	306
29	2	0	0	2	1	2	1	1	0	8	5	6	25	15	7	31	127	29	43	162	47	192	3	86	0	2	1	1	0	0	799
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1999	102	103	445	597	581	348	765	114	3705	3550	4482	8909	9810	5486	25473	67563	15550	25595	31114	21437	3934	2673	34518	156	765	459	307	799	0	261306

TAXI OD TABLE FOR REVISED CASE 3 IN 2017

ZONE NO.	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	TOTAL
1	0	57	26	48	155	98	95	121	6	54	75	35	29	11	20	90	408	21	67	56	84	37	17	82	1	8	4	3	11	0	1719
2	57	0	1	0	0	1	0	0	1	0	1	2	0	1	0	1	8	0	2	4	2	1	0	1	0	0	1	0	0	0	84
3	26	1	0	2	3	1	1	0	1	1	2	6	1	0	1	4	15	2	3	7	4	2	1	4	0	1	0	0	0	0	89
4	48	1	1	0	6	17	0	7	6	7	21	77	5	3	5	31	86	3	8	9	26	10	5	14	1	1	1	0	3	0	380
5	155	0	4	6	0	37	2	2	0	11	9	20	9	4	8	36	66	7	11	24	54	7	13	13	1	2	2	2	8	0	512
6	99	0	1	17	37	0	2	3	1	12	12	29	8	6	8	38	74	8	12	25	66	12	15	14	1	0	1	2	8	0	498
7	95	0	1	0	2	1	0	14	0	20	13	8	8	2	5	19	50	6	11	20	9	3	1	10	1	0	1	0	2	0	302
8	121	1	0	7	2	3	13	0	1	31	61	50	12	4	15	63	151	11	28	29	21	5	2	17	1	0	0	0	3	0	452
9	6	1	0	7	0	1	0	1	0	2	4	21	1	0	1	6	25	2	4	5	4	2	1	3	0	0	0	0	0	0	97
10	54	0	2	6	11	12	21	30	2	0	102	50	977	144	50	151	405	116	151	309	80	34	12	439	1	2	1	1	24	0	3187
11	75	1	2	21	10	12	13	61	5	102	0	209	126	67	63	421	965	59	170	142	113	22	10	377	2	2	0	1	13	0	3064
12	35	2	6	77	20	29	7	50	21	50	209	0	78	56	47	325	1643	65	144	242	185	40	25	682	3	2	2	2	22	0	3869
13	29	0	1	5	9	8	8	12	1	976	127	78	0	852	145	508	965	467	712	1243	295	84	28	1088	4	5	4	1	65	0	7691
14	11	1	0	3	4	5	2	4	0	144	67	56	852	0	367	1179	1398	1176	1382	677	249	52	18	806	4	3	1	1	41	0	8503
15	21	0	1	6	8	8	8	16	1	50	63	47	145	366	0	1407	1101	189	445	241	130	28	9	432	2	1	1	0	19	0	4739
16	90	1	4	31	36	38	19	62	8	151	420	326	608	1180	1406	0	9358	974	3020	1292	844	113	45	1875	10	7	4	4	86	0	22009
17	409	7	16	66	66	74	60	152	25	405	965	1443	965	1398	1101	9358	0	1942	5400	7296	9669	431	166	7520	45	24	13	10	339	0	49547
18	21	1	1	3	7	8	6	10	2	116	59	68	467	1177	186	974	1941	0	3968	2631	326	101	30	1299	6	3	3	1	77	0	13492
19	67	2	3	8	11	12	11	29	4	151	170	144	712	1382	445	2019	5401	3967	0	3325	846	150	48	2156	11	7	4	2	116	0	22251
20	56	4	8	9	24	25	19	29	5	309	141	242	1243	677	241	1292	7296	2632	3325	0	1266	930	149	6350	25	19	10	6	489	0	26820
21	84	3	4	26	54	56	10	21	4	81	113	155	206	249	129	845	9868	326	846	1266	0	186	74	3854	25	9	4	3	122	0	18659
22	37	1	1	10	7	12	3	6	1	34	21	41	84	52	26	112	431	101	150	930	186	0	11	432	3	2	1	0	709	0	3403
23	17	0	1	5	13	15	1	2	1	13	10	24	28	19	9	45	166	30	48	149	74	11	0	1597	7	1	0	0	10	0	2296
24	82	2	4	14	13	14	10	17	3	439	377	642	1068	806	432	1878	7520	1299	2156	6350	3854	432	1597	0	486	6	4	3	447	0	29981
25	1	0	0	1	1	1	1	1	0	1	2	3	3	4	2	10	46	6	11	26	22	3	8	486	0	0	0	0	3	0	641
26	8	0	1	1	2	0	1	0	0	2	1	3	5	3	2	7	24	3	7	19	8	2	0	6	0	0	0	0	2	0	107
27	4	1	0	1	2	1	1	0	0	1	1	1	4	1	1	4	14	3	4	10	4	1	0	4	0	0	0	0	1	0	64
28	3	0	0	0	2	2	0	0	0	1	1	2	1	1	0	4	10	1	2	6	3	0	0	3	0	0	0	0	1	0	43
29	11	0	0	3	8	6	2	3	0	23	14	22	66	40	19	86	339	77	116	489	133	709	10	447	3	2	0	1	0	0	2826
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1722	87	89	379	513	497	303	662	97	3187	3061	3671	7689	8504	4737	22010	49646	13493	22200	26821	18666	3406	2297	29980	639	107	62	43	2829	0	227277

Table 4.2.2 (29) OD Matrices for Revised Case 3 in 2017

BUS OD TABLE FOR REVISED CASE 3 IN 2017

ZONE NO.	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	TOTAL
1	0	8	5	9	28	15	15	21	0	10	14	7	6	2	6	23	96	5	18	12	19	5	4	10	0	6	3	1	1	0	349
2	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	3	0	1	1	1	0	1	1	0	0	0	0	0	0	18
3	5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	4	0	1	1	1	0	1	1	0	0	0	0	0	0	17
4	9	0	0	0	1	3	0	1	1	2	4	11	1	0	5	17	18	2	1	1	7	1	1	2	0	1	0	0	0	0	87
5	28	0	1	1	0	6	0	0	0	3	2	4	2	2	0	6	16	1	3	4	12	2	1	1	0	2	1	2	0	0	100
6	15	0	1	2	6	0	1	1	0	3	3	6	1	1	3	5	18	2	3	6	12	2	2	2	1	1	0	2	1	0	99
7	15	0	0	0	0	1	0	1	0	3	3	1	2	1	1	4	12	1	4	5	3	0	1	2	0	0	0	0	0	0	60
8	21	0	0	2	0	2	1	0	0	5	8	8	2	1	3	15	34	4	8	8	6	1	1	3	0	0	0	0	0	0	133
9	0	0	0	1	0	0	0	0	0	1	0	3	0	0	0	2	6	1	1	1	1	1	0	1	0	0	0	0	0	0	18
10	10	1	0	2	3	3	3	5	1	6	19	11	125	31	13	41	106	31	42	74	24	9	3	80	0	2	1	1	2	0	643
11	15	0	0	4	1	3	3	8	0	19	0	30	26	16	13	81	184	17	42	37	30	5	3	75	0	2	1	1	1	0	617
12	7	0	1	11	4	6	1	7	3	11	30	0	20	15	11	72	286	20	40	59	45	9	6	122	1	2	1	1	2	0	773
13	6	0	0	1	2	1	2	2	0	124	26	20	0	136	33	140	248	104	185	256	57	21	6	185	1	4	3	1	5	0	1530
14	2	0	0	0	2	2	1	1	0	31	16	16	137	0	62	226	318	201	250	162	68	15	5	169	1	2	2	1	4	0	1692
15	6	0	0	5	1	2	1	4	0	13	14	11	32	63	0	217	230	46	94	85	36	7	3	95	1	1	1	0	2	0	950
16	24	0	1	17	6	6	4	15	1	41	81	72	140	225	217	0	1661	230	576	338	219	33	13	433	3	6	4	3	8	0	4367
17	96	3	4	16	16	18	12	34	5	106	186	266	240	318	230	1651	0	475	1102	1498	1640	117	43	1666	12	19	11	10	31	0	9823
18	6	0	0	1	1	2	1	3	0	31	17	20	103	201	46	231	475	0	626	616	96	31	8	272	2	3	2	1	8	0	2795
19	18	1	1	1	0	3	4	8	1	42	41	40	156	250	95	576	1102	626	0	875	217	44	12	467	3	5	4	2	11	0	4407
20	12	1	2	1	4	5	5	8	1	74	38	69	256	162	64	338	1497	617	875	0	307	207	27	993	6	11	6	3	45	0	5322
21	19	1	1	7	12	12	3	6	1	24	29	45	57	68	36	219	1641	96	218	307	0	45	16	818	5	6	3	3	11	0	3707
22	6	0	0	1	2	1	1	1	0	9	6	9	21	16	7	33	117	30	44	208	44	0	2	70	0	1	2	0	65	0	685
23	4	0	1	1	1	2	0	1	0	3	3	6	7	4	3	13	43	8	13	27	16	2	0	306	2	0	0	0	1	0	467
24	10	1	1	2	1	2	2	3	1	80	75	122	185	169	94	435	1667	272	467	993	818	69	306	0	107	3	2	1	30	0	5916
25	0	0	0	0	0	1	0	0	0	1	0	0	1	1	1	3	11	2	2	5	5	1	2	107	0	1	0	0	0	0	144
26	7	0	0	1	2	1	0	0	0	2	2	2	4	2	1	7	18	4	5	12	5	1	1	3	1	0	0	0	0	0	81
27	3	0	0	0	2	0	0	0	0	1	1	1	3	3	1	3	11	2	4	6	4	1	0	2	0	0	0	0	0	0	48
28	2	0	0	0	1	2	0	0	0	1	1	2	1	0	0	3	9	2	1	3	2	1	0	1	0	0	0	0	0	0	32
29	1	0	0	0	0	1	0	0	0	2	1	2	6	4	2	8	31	8	11	46	11	64	1	30	0	0	0	0	0	0	219
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	365	16	19	86	101	100	60	130	17	642	619	774	1632	1690	947	4368	9821	2707	4406	5324	3706	684	469	5917	145	77	47	33	218	0	45009

TRUCK OD TABLE FOR REVISED CASE 3 IN 2017

ZONE NO.	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	TOTAL
1	0	86	50	112	370	144	149	239	16	132	189	86	70	33	72	301	1091	58	199	98	179	37	14	110	0	3	2	0	1	0	3833
2	86	0	1	2	4	2	1	1	0	3	3	7	1	1	2	10	32	4	8	10	7	2	0	6	0	0	0	0	0	0	192
3	50	1	0	2	6	1	1	2	0	3	4	10	2	1	3	13	43	6	9	13	10	1	2	6	0	0	0	0	0	0	190
4	112	2	2	0	15	39	4	12	6	24	42	90	12	9	19	113	176	11	21	19	73	11	6	18	0	0	0	0	0	0	838
5	370	3	9	14	0	100	3	6	2	23	26	58	13	11	19	101	154	14	23	24	79	21	11	41	1	0	0	2	0	0	1131
6	144	3	1	39	100	0	4	11	3	29	40	82	17	13	26	122	255	16	29	29	100	22	14	40	0	1	0	0	0	0	1088
7	149	1	1	4	3	4	0	11	0	31	22	19	16	6	16	53	148	24	41	64	31	6	2	15	0	0	0	0	0	0	666
8	239	1	2	12	8	11	10	0	3	53	60	67	27	14	39	167	379	48	106	91	73	10	6	30	1	0	0	0	0	0	1457
9	16	0	0	6	2	3	1	2	0	5	9	18	2	2	6	21	67	7	14	16	14	1	1	6	0	0	0	0	0	0	216
10	132	3	3	24	23	29	30	53	5	0	181	137	854	337	154	527	1230	375	510	811	255	65	18	684	0	1	0	0	1	0	6442
11	189	3	5	41	29	40	22	60	9	180	0	257	276	196	130	795	1797	220	492	409	337	39	21	671	1	1	0	0	1	0	6241
12	86	7	10	90	58	62	18	68	18	138	256	0	219	189	142	811	2662	242	476	597	485	89	61	1014	1	0	0	0	1	0	7670
13	71	1	2	12	14	17	15	26	2	884	276	219	0	1118	360	1519	2604	1083	1618	2495	568	174	32	1479	2	1	1	0	2	0	14586
14	23	1	1	9	11	13	7	14	2	336	196	189	1118	0	553	2076	3376	1662	2210	1778	783	128	27	1490	2	0	0	1	1	0	16018
15	72	2	3	19	19	26	15	39	5	163	151	142	360	554	0	1666	2346	529	987	755	438	61	18	677	1	1	0	0	1	0	9239
16	301	10	14	112	101	122	63	167	21	527	795	811	1519	2076	1666	0	13877	2489	5222	3820	2471	286	92	4078	4	2	1	0	3	0	40661
17	1091	32	43	176	154	203	148	379	67	1230	1796	2580	2803	3376	2346	13878	0	5117	10534	14448	13169	971	291	16336	16	4	3	2	10	0	90966
18	58	4	5	11	14	16	24	47	7	376	220	242	1083	1862	529	2489	5117	0	4713	4842	1097	317	39	2336	2	1	1	0	3	0	28386
19	199	8	9	21	23	29	42	106	14	509	492	476	1616	2210	987	5222	10534	4714	0	6659	2585	442	69	4131	5	2	0	0	5	0	40911
20	90	10	13	20	24	29	54	91	15	811	409	597	2495	1778	756	3823	14448	4842	6660	0	2921	2309	117	7218	7	3	1	2	19	0	49661
21	179	7	10	73	79	101	31	73	14	256	336	485	588	783	439	2471	13159	1097	2386	2921	0	305	96	8559	9	1	1	1	4	0	34462
22	37	2	1	11	21	22	5	10	1	66	39	59	174	128	61	286	971	316	643	2308	306	0	21	1606	2	0	1	0	42	0	6838
23	14	0	2	7	11	14	2	6	1	17	21	51	32	27	18	92	291	39	68	117	96	21	0	3888	2	0	0	0	1	0	4838
24	110	5	6	19	41	40	15	30	6	684	671	1014	1478	1490	877	4078	16335	2336	4131	7218	8659	1506	3888	0	393	3	2	1	37	0	54973
25	0	0	0	0	1	0	0	1	0	0	1	1	2	2	1	4	17	2	6	8	8	2	2	394	0	0	0	0	0	0	461
26	3	0	0	0	0	1	1	0	0	0	1	1	1	0	1	2	3	1	2	2	2	0	0	3	0	0	0	0	0	0	24
27	1	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	2	1	0	3	0	1	0	2	0	0	0	0	0	0	14
28	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	1	2	0	0	2	0	0	0	2	0	0	0	0	0	0	10
29	1	0	0	0	0	0	0	1	0	0	1	1	2	1	1	3	10	3	5	19	4	43	1	37	0	0	0	0	0	0	133
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3834	192	192	836	1136	1088	665	1457	218	6443	6239	7672	14582	16017	9240	40662	90964	25355	40911	49661	34459	6838	4840	84975	449	24	13	9	133	0	419094

Table 4.2.2 (30) OD Matrices for Revised Case 3 in 2017

ALL VEHICLES OD TABLE FOR REVISED CASE 3 IN 2017

ZONE NO.	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	TOTAL
1	0	210	107	227	701	369	357	506	78	254	358	165	137	59	122	516	2075	109	367	230	388	134	62	283	1	64	34	19	15	0	7897
2	210	0	3	3	6	4	1	1	1	4	5	11	1	2	3	14	53	5	14	22	13	4	2	10	0	1	1	0	0	0	394
3	107	3	0	5	16	3	2	3	2	6	8	22	4	2	5	23	80	9	16	32	20	8	5	16	0	2	0	0	0	0	397
4	227	4	5	0	26	76	6	26	20	42	90	260	22	15	36	197	335	19	36	40	139	38	21	50	1	6	5	3	5	0	1749
5	701	4	17	24	0	174	6	13	2	50	50	103	34	24	38	187	320	32	52	83	217	37	42	64	3	21	16	16	9	0	2340
6	370	4	4	75	174	0	8	18	6	57	68	146	37	25	48	211	381	36	59	91	240	49	50	67	3	10	7	13	9	0	2266
7	387	1	3	6	6	7	0	42	0	77	64	36	36	11	27	109	272	38	70	103	56	14	6	40	1	2	2	0	3	0	1277
8	506	3	2	27	14	19	40	0	7	124	200	181	55	23	75	318	745	76	177	168	126	25	12	71	2	4	1	1	4	0	3004
9	78	1	2	21	2	5	1	6	0	9	19	64	4	2	8	36	127	12	23	30	24	5	2	15	0	0	1	0	0	0	447
10	284	5	8	41	80	54	77	123	9	0	416	286	3037	674	274	894	2223	666	840	1567	461	164	53	1730	2	20	13	8	36	0	13976
11	359	5	9	90	60	68	53	200	20	416	0	724	571	355	298	1771	4049	364	900	763	613	103	48	1587	4	16	9	7	19	0	13470
12	166	10	23	259	104	146	34	181	64	256	723	0	404	326	252	1572	5886	407	828	1195	931	175	115	2641	7	23	17	13	32	0	16794
13	138	2	4	22	35	37	35	54	5	3035	572	405	0	3659	702	2961	4938	2184	3295	5401	1108	413	112	3999	8	47	33	14	97	0	32718
14	59	2	2	15	24	26	12	22	2	675	356	326	3060	0	1394	4815	6714	4371	5405	3401	1393	280	81	3465	8	28	17	11	61	0	36027
15	123	3	5	36	39	47	26	77	7	273	300	252	701	1394	0	4882	4939	977	2028	1346	766	138	45	1935	4	16	10	5	29	0	20342
16	517	13	23	197	186	212	109	318	35	995	1770	1673	2959	4817	4881	0	35639	4805	12247	6965	4509	618	219	8706	20	67	42	30	127	0	92499
17	2076	62	81	336	320	381	272	746	127	2222	4049	5888	4937	6714	4939	35640	0	9805	23262	31643	35825	2216	759	34621	90	229	143	108	506	0	207885
18	111	6	9	18	32	26	38	70	13	657	365	406	2183	4372	978	4806	9804	0	13809	11022	1912	603	127	5818	12	42	25	12	117	0	97106
19	387	14	16	36	53	59	70	178	23	879	998	824	3296	5403	2029	12246	23265	13809	0	14389	4431	868	207	9425	22	69	41	23	175	0	93117
20	230	22	33	41	83	91	103	166	30	1557	783	1196	6401	3400	1346	6965	31642	11024	14389	0	6030	4861	534	22135	45	170	87	47	715	0	112913
21	388	14	20	139	217	241	56	126	24	463	611	931	1108	1393	756	4510	35825	1912	4430	6030	0	844	300	17532	44	81	42	35	195	0	78267
22	136	6	6	38	37	48	15	25	3	165	103	176	415	280	137	617	2215	601	865	4652	843	0	47	2402	6	11	11	4	999	0	14859
23	62	1	5	20	42	50	5	13	2	53	48	114	113	80	45	220	959	127	206	535	300	48	0	7392	13	6	1	2	16	0	10276
24	283	11	16	54	64	87	40	71	16	1730	1587	2641	3999	3468	1934	8706	34621	5518	9426	22185	17532	2401	7392	0	1089	35	23	17	600	0	125388
25	1	0	0	1	3	3	1	2	0	2	4	8	7	8	4	20	91	12	21	47	42	7	16	1089	0	1	0	0	3	0	1390
26	65	1	2	6	21	10	4	3	0	20	15	28	47	28	16	67	229	42	69	170	81	11	5	35	1	0	0	0	4	0	977
27	36	1	0	5	16	8	2	2	1	15	10	16	32	18	10	41	143	26	41	89	42	10	1	24	0	0	0	0	2	0	589
28	20	0	1	3	17	13	0	1	0	9	6	15	14	10	4	31	107	13	22	47	32	6	2	18	0	0	0	0	2	0	363
29	15	0	0	5	9	9	3	8	0	33	21	31	98	60	29	127	507	117	174	716	198	998	15	600	3	4	1	2	0	0	3777
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7910	397	403	1746	2347	2266	1376	3002	446	13977	13469	16799	32712	36021	20389	92603	278184	87106	93111	112920	78258	14862	10279	125390	1389	973	641	392	3779	0	962686

A 4.2.2 Road Network Data

(1) General

1) Methodology of Traffic Assignment

Traffic assignment to estimate the future traffic volume on crossing structures was carried out under the condition to combine various cases of locations of crossing structures, road network and OD matrices. The locations of crossing structures and relevant road network conditions in Egypt depending on the future road improvement and construction in the year of 2002, 2007 and 2017 were presented as road network data for traffic assignment.

This future road network conditions in Egypt were built up in cooperation with GARB taking advantage of the outcome of NRTS . The detailed contents of the future plan of road network is described in the main report.

Table 4.2.3 shows the road network case used in this Study.

Table 4.2.3 Road Network Case

No.	Case	Crossing structure	Remarks
1	1995 Net		
2	2002 Net	Port Said	
3	2002 Net	Ras El Esh	
4	2002 Net	Qantara	
5	2002 Net	Ferdan	
6	2002 Net	Ismailiya	
7	2002 Net	Srabuiom	
8	2007 Net	Port Said	
9	2007 Net	Ras El Esh	
10	2007 Net	Qantara	
11	2007 Net	Ferdan	
12	2007 Net	Ismailiya	
13	2007 Net	Srabuiom	
14	2012 Net	Port Said	
15	2012 Net	Ras El Esh	
16	2012 Net	Qantara	
17	2012 Net	Ferdan	
18	2012 Net	Ismailiya	
19	2012 Net	Srabuiom	

2) Traffic Assignment

a Basic Conditions

The traffic assignment was executed under the following basic conditions.

- The software of TRAN PLAN was used for the traffic assignment.
- The traffic assignment was carried out to assign the OD traffic onto road network
- One tenth of OD traffic was assigned at one time onto road network and so called incremental methodwere adopted for traffic assignment.
- Crossing time over the Suez Canal by ferry for the road network condition is set up according to the results of the traffic survey. However, as this crossing time includes no waiting time additional waiting time is added to this crossing time of road network condition according to the results of the traffic survey.

b Traffic Assignment Case

The traffic assignment cases consist of the following conditions.

- Seven crossing location alternatives
- Year (2002, 2007 and 2017)
- OD matrices depending on socio-economic framework cases (Case 1, Case 2 and Revised Case 3)

The detailed traffic assignment cases are shown in Table 4.2.4. Also traffic flow band for assignment cases are shown in Fig. 4.2.1.

Table 4.2.4 Traffic Assignment Case

No.	Crossing Location	OD (Framework)	Year
1	No Structure	Case 1	2002
2			2007
3			2017
4		Case 2	2002
5			2007
6			2017
7		Revised Case 3	2002
8			2007
9			2017
10	Port Said	Case 1	2002
11			2007
12			2017
13		Case 2	2002
14			2007
15			2017
16		Revised Case 3	2002
17			2007
18			2017
19	Ras El Esh	Case 1	2002
20			2007
21			2017
22		Case 2	2002
23			2007
24			2017
25		Revised Case 3	2002
26			2007
27			2017
28	Qantara	Case 1	2002
29			2007
30			2017
31		Case 2	2002
32			2007
33			2017
34		Revised Case 3	2002
35			2007
36			2017
37	Ferdan	Case 1	2002
38			2007
39			2017
40		Case 2	2002
41			2007
42			2017
43		Revised Case 3	2002
44			2007
45			2017
46	Ismailiya	Case 1	2002
47			2007
48			2017
49		Case 2	2002
50			2007
51			2017
52		Revised Case 3	2002
53			2007
54			2017
55	Srabuiom	Case 1	2002
56			2007
57			2017
58		Case 2	2002
59			2007
60			2017
61		Revised Case 3	2002
62			2007
63			2017

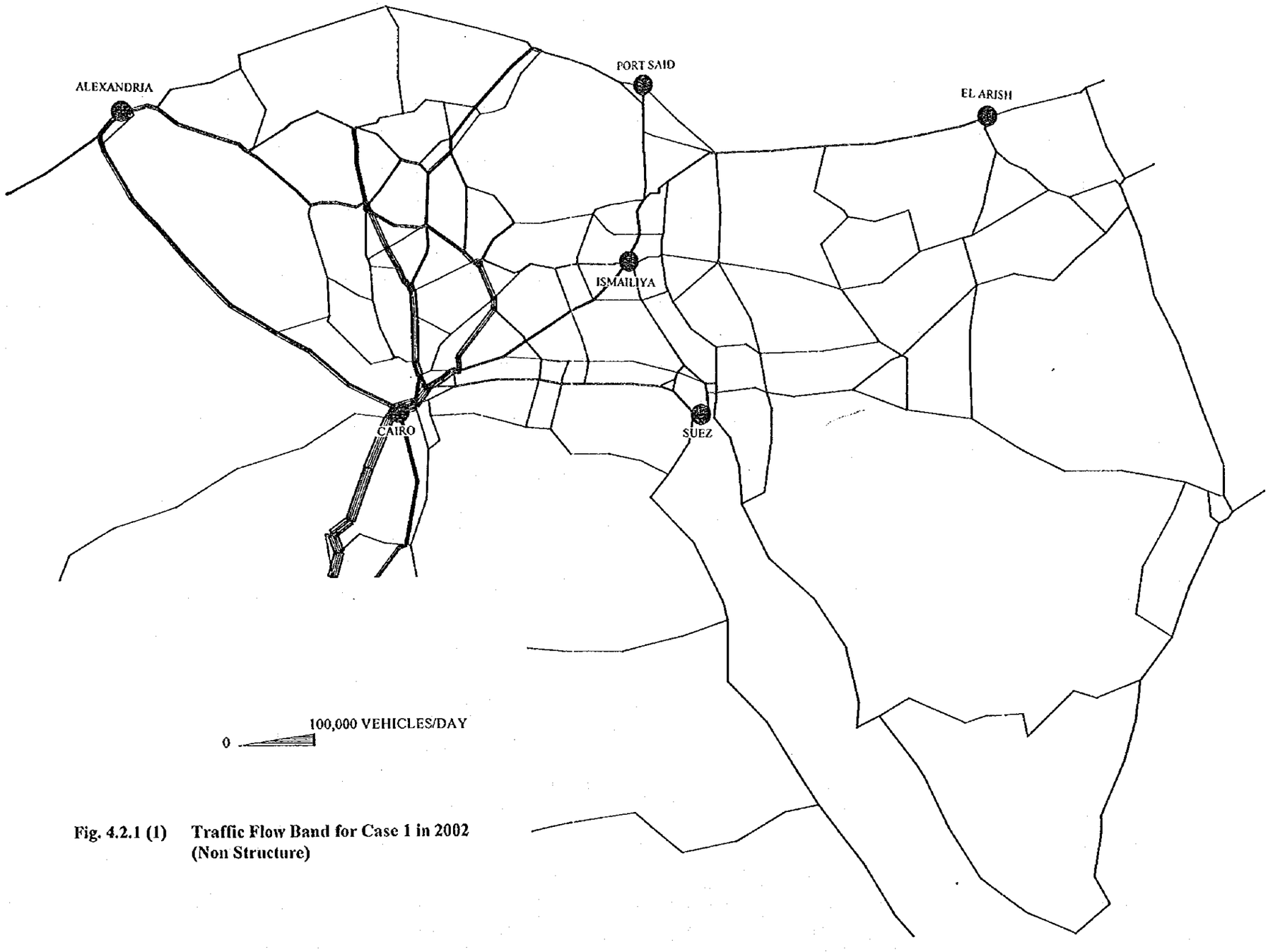


Fig. 4.2.1 (1) Traffic Flow Band for Case 1 in 2002 (Non Structure)

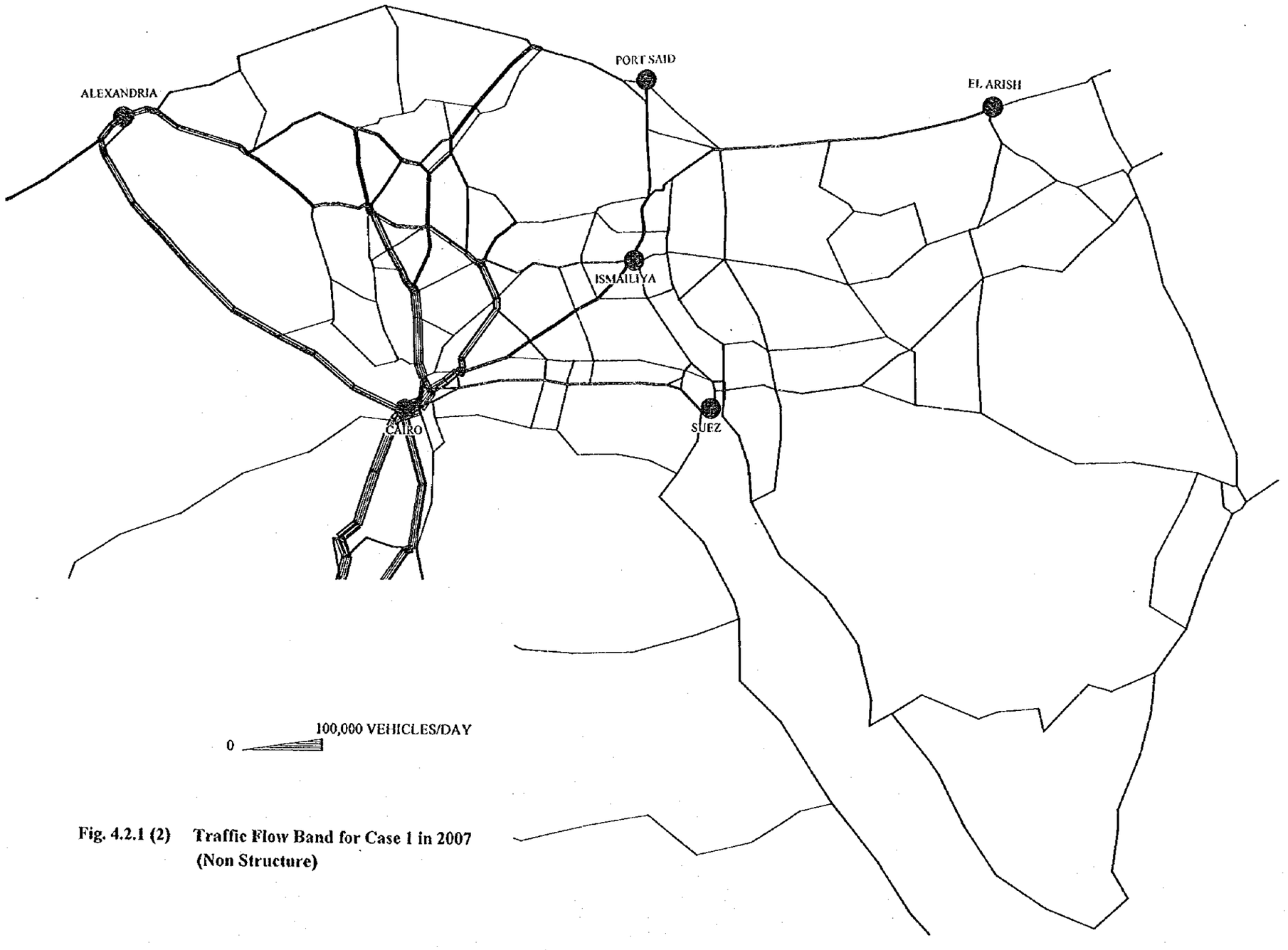


Fig. 4.2.1 (2) Traffic Flow Band for Case 1 in 2007 (Non Structure)

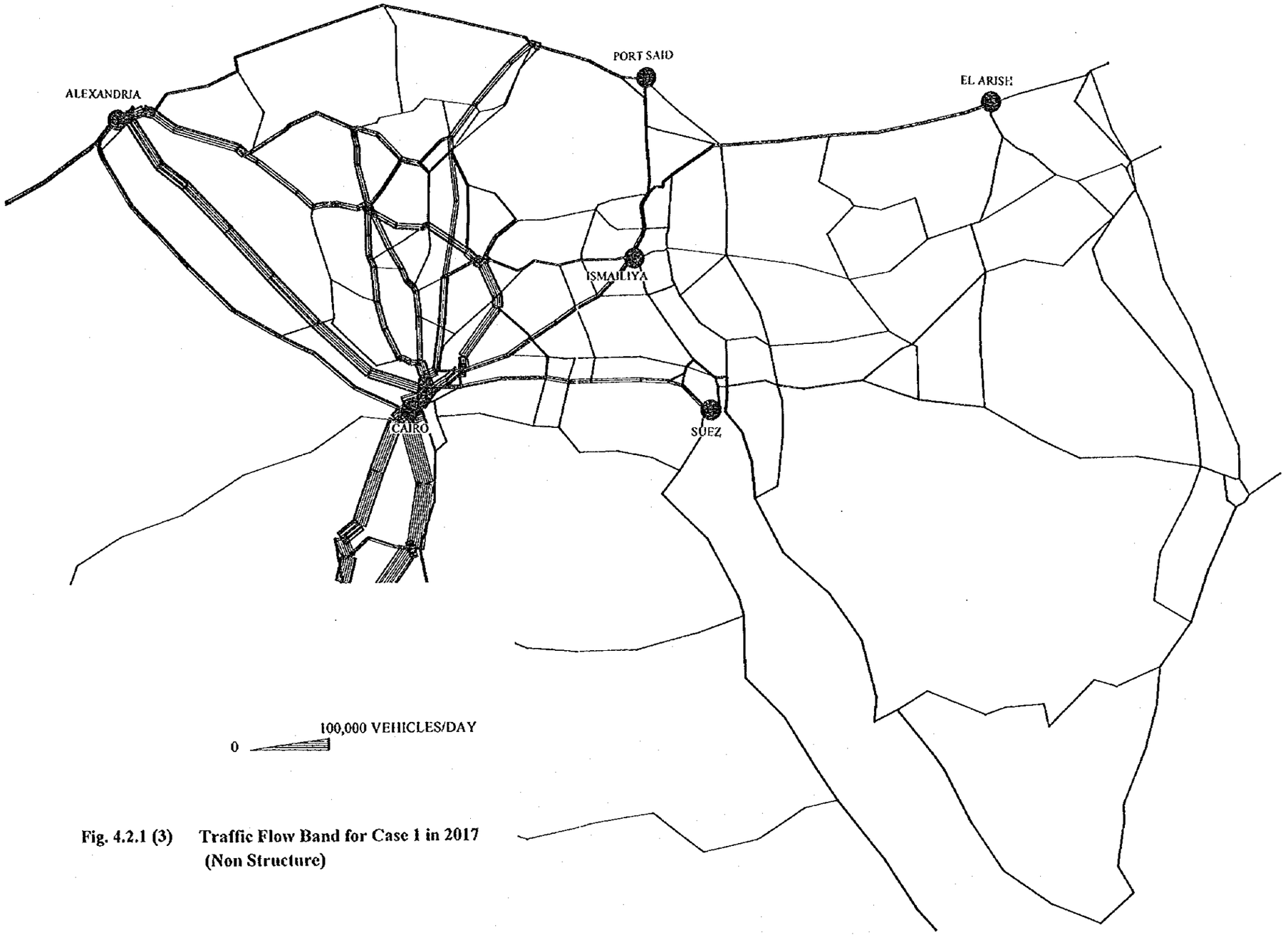


Fig. 4.2.1 (3) Traffic Flow Band for Case 1 in 2017 (Non Structure)

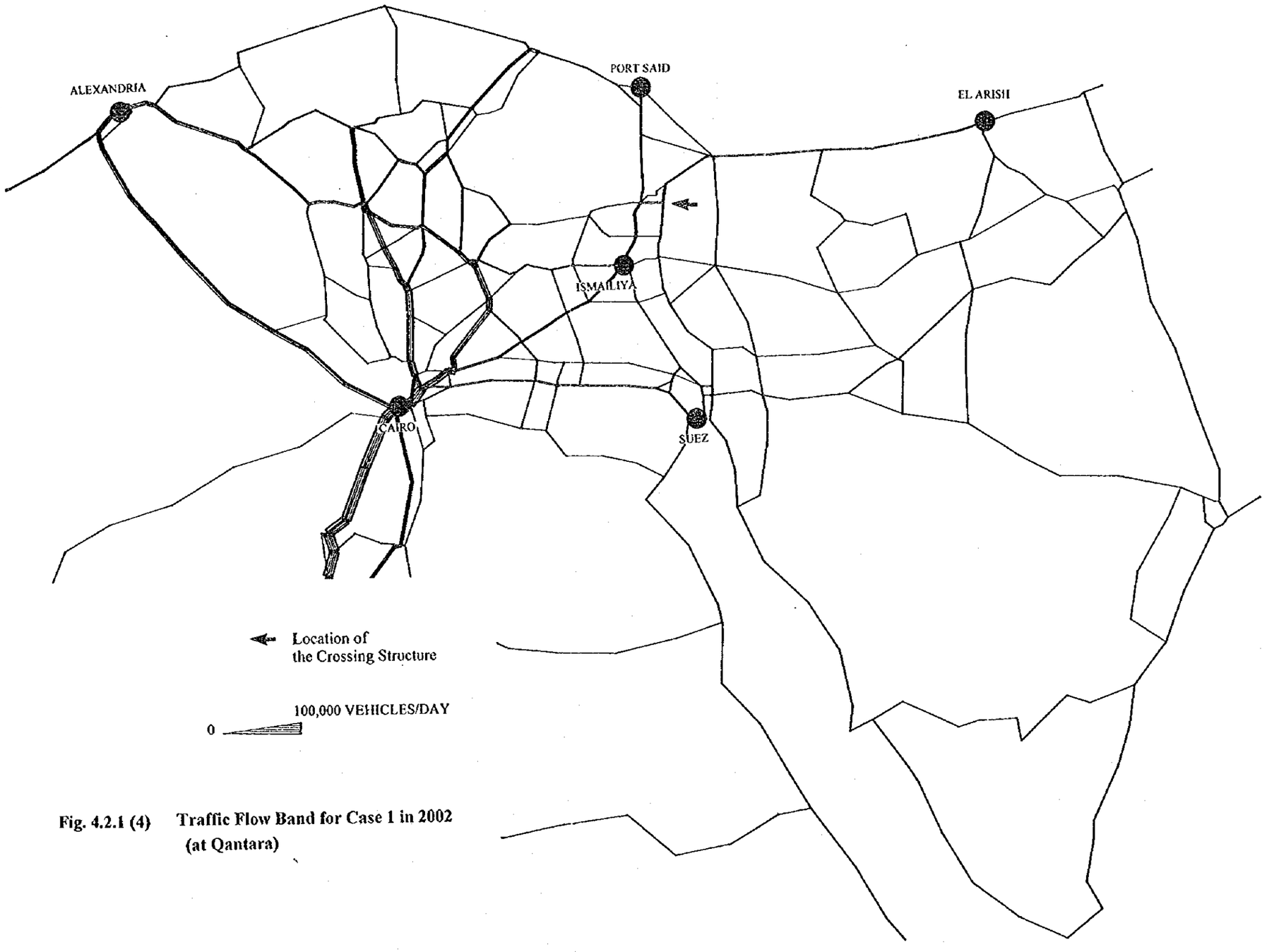


Fig. 4.2.1 (4) **Traffic Flow Band for Case 1 in 2002 (at Qantara)**

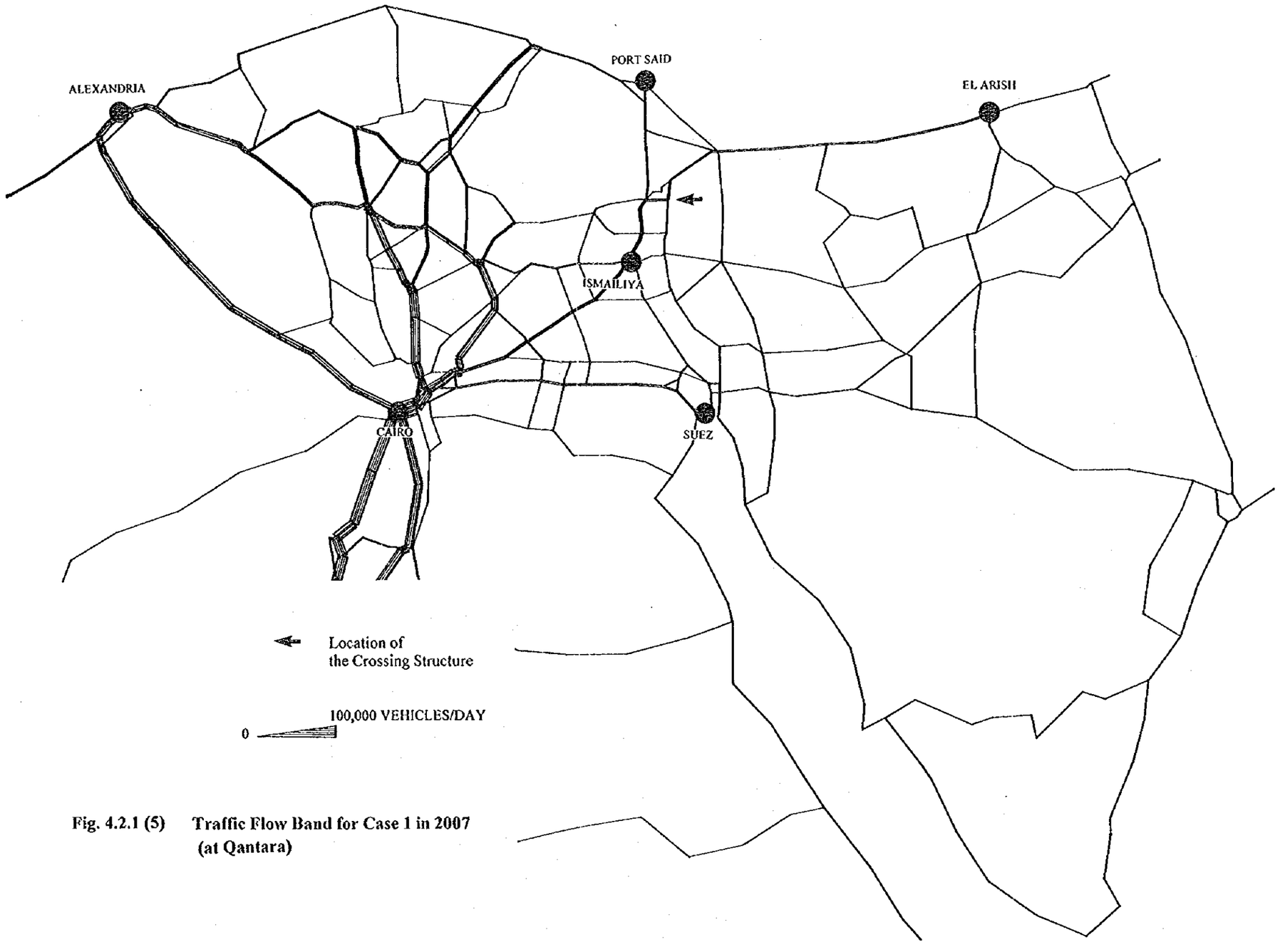


Fig. 4.2.1 (5) Traffic Flow Band for Case 1 in 2007 (at Qantara)

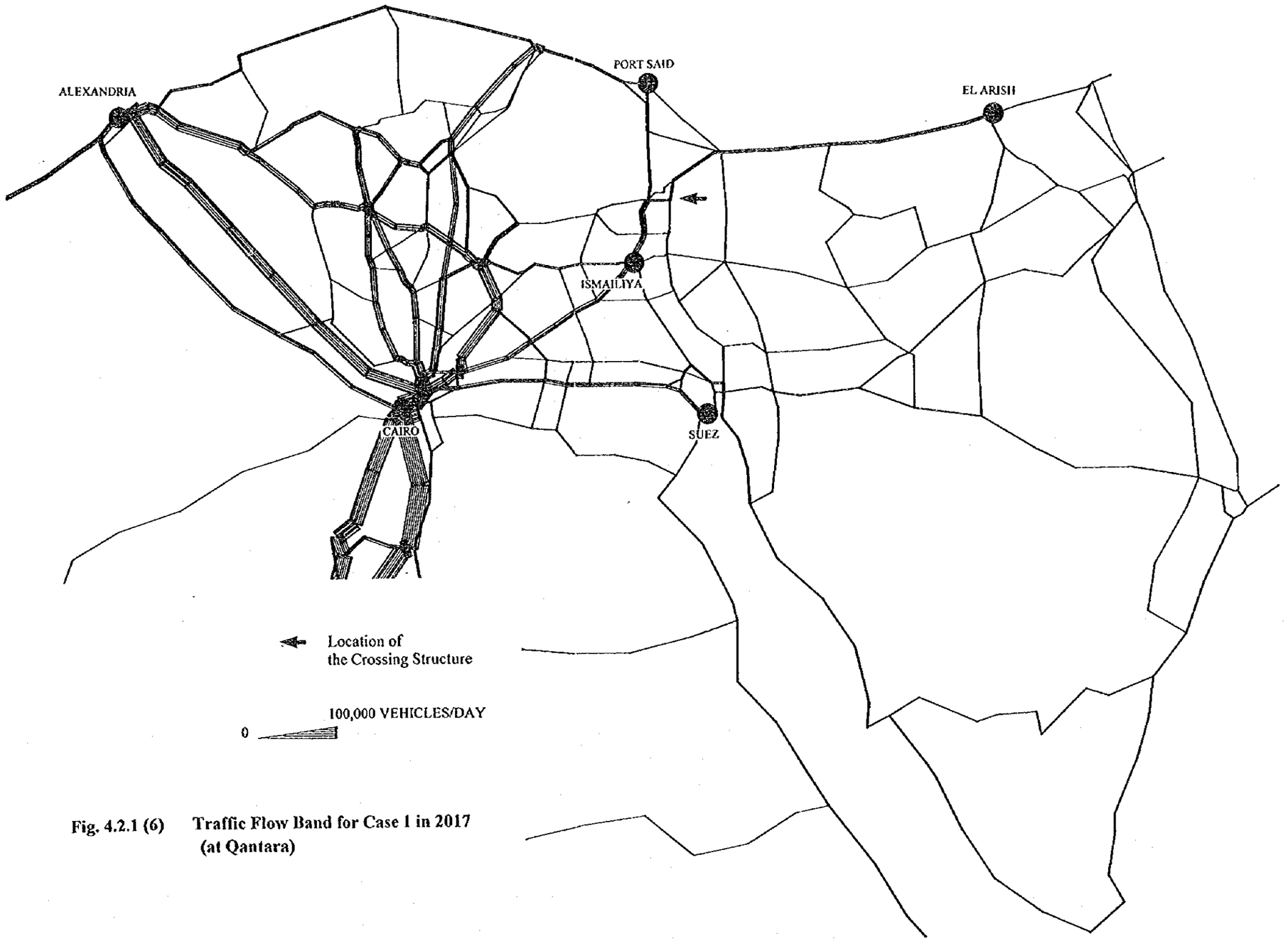


Fig. 4.2.1 (6) **Traffic Flow Band for Case 1 in 2017 (at Qantara)**

Chapter 6 Crossing Structure Alternatives

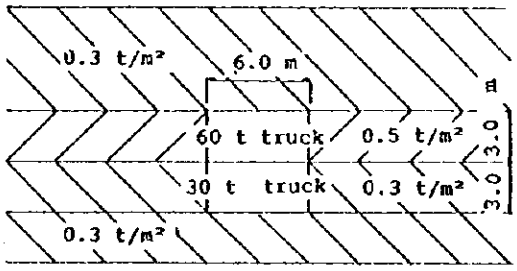
CHAPTER 6 DESIGN REQUIREMENTS

A6.1 Current Design Standards / Codes in Egypt

Table A6.1.1 Monthly Wind Table in Isamailiya (Frequency of Wind Velocity)

Month	Wind Speed (konts)							
	01-03	04-06	07-10	11-16	17-21	22-27	28-33	34-40
Jan.	1,506	1,438	1,202	763	163	44	8	0
Feb	1,177	1,496	1,214	845	188	104	8	1
Mar.	1,186	1,618	1,607	1,002	164	57	11	4
Apr.	1,226	1,568	1,754	927	113	28	1	0
May	1,130	1,783	1,901	883	76	23	2	0
June	1,117	1,648	1,808	757	24	5	0	0
July	1,431	1,725	1,929	629	13	2	0	0
Aug.	1,526	1,900	1,815	408	5	2	1	0
Sep.	1,535	1,671	1,616	386	2	0	0	0
Oct.	1,576	1,711	1,402	386	37	30	0	0
Nov.	1,747	1,418	983	425	52	17	0	0
Dec.	1,503	1,410	957	684	114	28	2	0
Total	16,660	19,386	18,188	8,095	950	340	33	5

Source : Egyptian Meteorological Authority, from 1883 to 1992



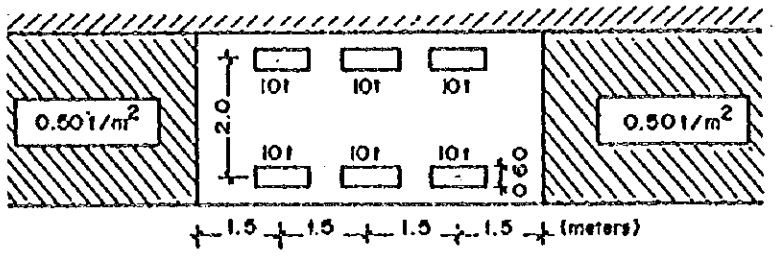


Fig. A6.1.1 Vehicle Load

A6.2 Design Standards and Criteria Adopted

A6.2.1 Definitions and Terminology Used for Roads

The Study Team has adopted the following definitions and terminology for the road crossing the Suez Canal. These definitions are shown in Fig. A6.2.1 and Fig. A6.2.2.

A6.2.2 Comparison of Design Criteria

The Study Team has studied the geometric design criteria for the road crossing the Suez Canal in this phase. The results of the comparison of the different geometric design criteria of the Egyptian and Japanese standards are shown in Table A6.2.1.

A6.2.3 Lane Widths

(1) General

The Study Team has examined and proposed the lane widths of the road crossing in this phase.

(2) Comparison of Options

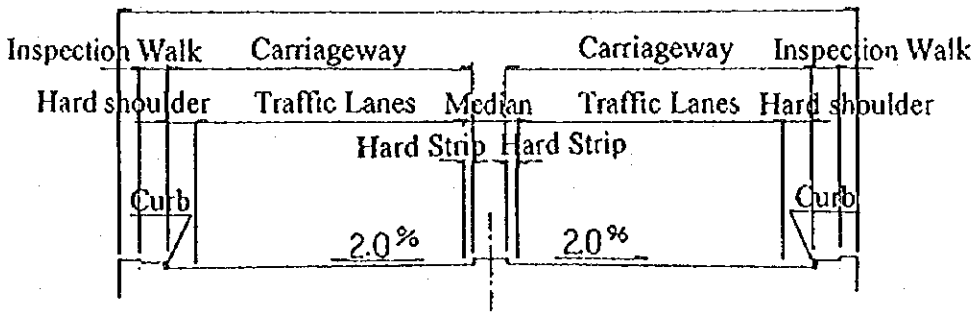
The Study Team compared the merits of the following three lane width options. These options are shown in Fig. A6.2.3 to Fig. A6.2.7 Altemative Cross Sections.

- Option 1 : lane width of 3.65 m based on the Study Team proposal
- Option 2 : lane width of 3.75 m based on the Egyptian standards
- Option 3 : lane width of 3.65 m based on the American standards (AASHTO)
- Option 4 : lane width of 3.50 m based on the Japanese standard
- Option 5 : lane width of 3.65 m based on the British standard (BS)

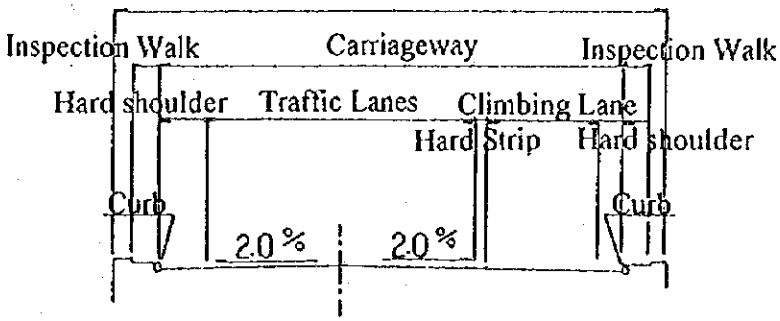
The five options for 4 , 2 and 3 lane road combinations have been compared for each alternative.

(3) Discussion

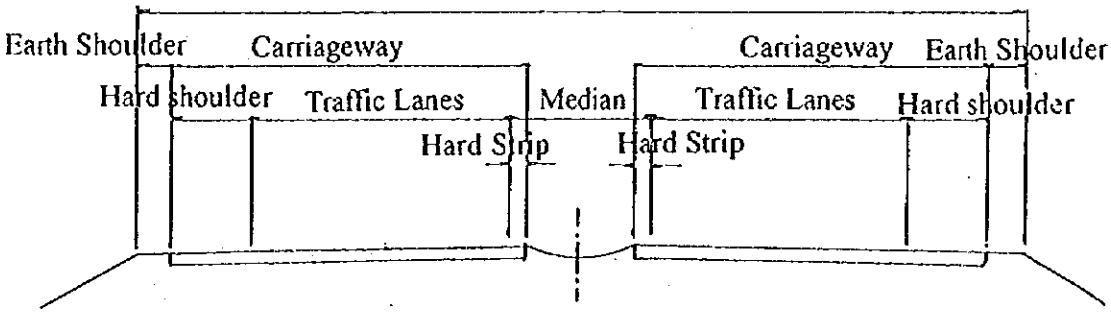
Option 2 has been used on Egyptian roads. The traffic lane widths include hard strips and shoulders, and the carriageway width of this option is narrower than the other options, except for Option 5. This new road crossing of the Suez Canal will become a part of an international highway in the future. Hence, the Study Team proposed the option shown in Fig. A6.2.3 based on AASHTO standards.



4 Lane Bridge Section



3 Lane Bridge Section



4 Lane Earthwork Section

Fig. A6.2.1 **Definitions and Road Terminology (Cross Sections)**

THE FEASIBILITY STUDY ON A BRIDGE OVER NORTHERN PART OF THE SUEZ CANAL

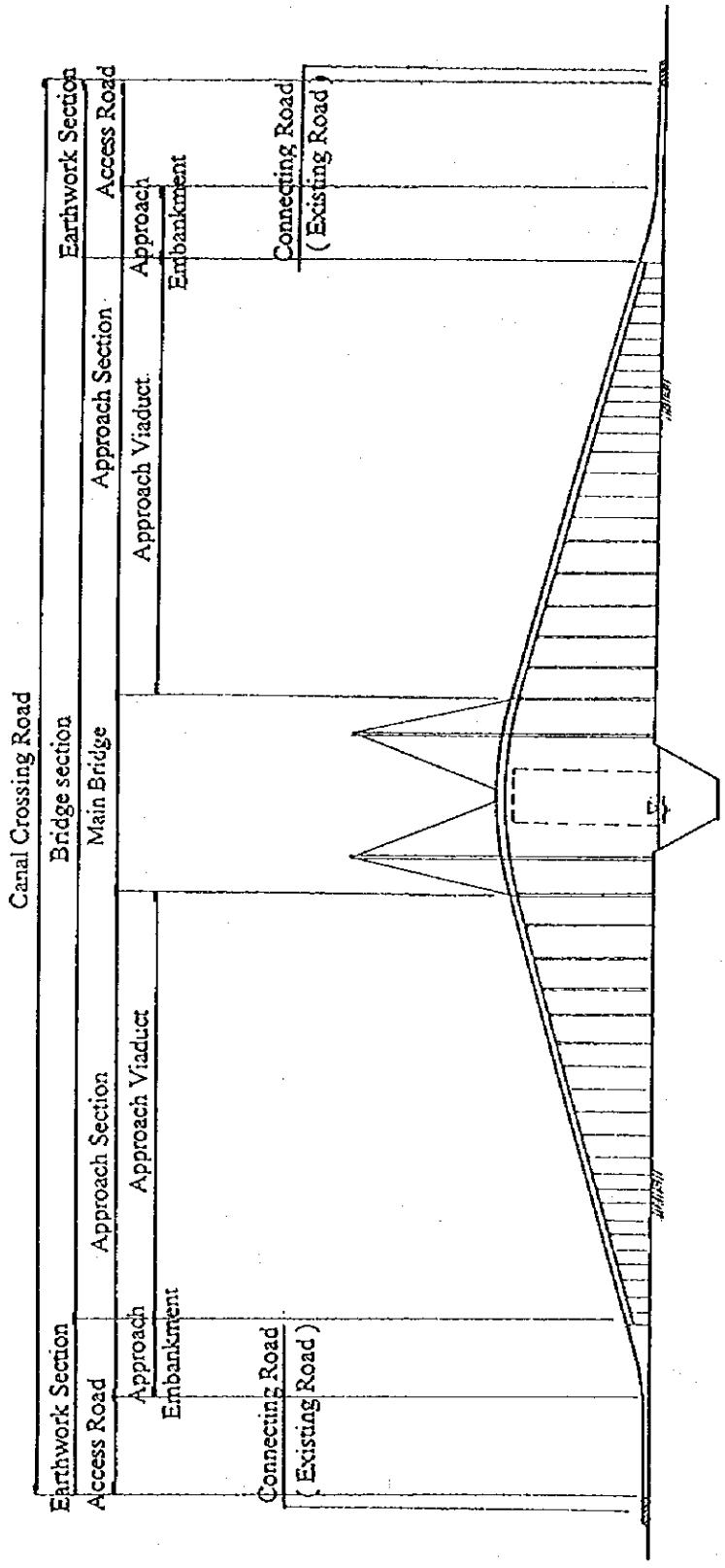


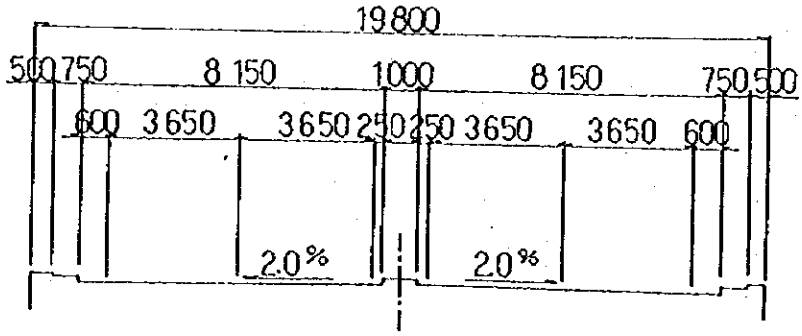
Fig. A6.2.2 **Definitions and Road Terminology (Profile)**

THE FEASIBILITY STUDY ON A BRIDGE OVER NORTHERN PART OF THE SUEZ CANAL

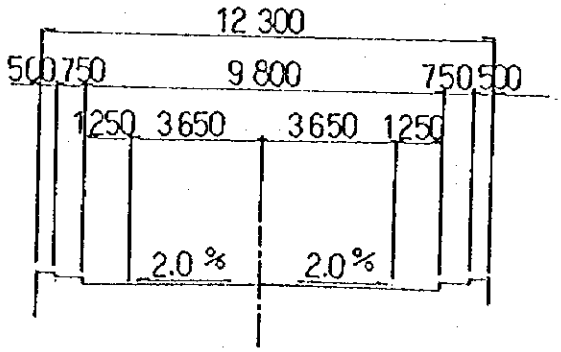
Table A6.2.1 Comparison of Design Criteria

Item	Unit	Design Criteria Value								Remarks
Design Speed	Km/hr	100		80		60		50		
Design Standards		Egyptian	Japanese	Egyptian	Japanese	Egyptian	Japanese	Egyptian	Japanese	Primary Rolling Desert Road
Lane Widths for ;										
1) Traffic Lane	m	3.75	3.50	3.75	3.50	3.75	3.25	3.75	3.00	
2) Additional Lane	m	-	3.00	-	3.00	-	3.00	-	3.00	Climbing Lane
Shoulder Widths for ;										
1) Bridge or Tunnel section : 4 Lanes	m	* 0.00	1.75	* 0.00	0.75	* 0.00	0.50	* 0.00	0.50	* : Egyptian Requirement
2) Bridge or Tunnel section : 2 Lanes	m	* 0.00	1.75	* 0.00	1.25	* 0.00	0.50	* 0.00	0.50	* : Egyptian Requirement
3) Earthwork Section : Elevated	m	* 1.25	2.50	* 1.25	1.25	* 1.25	0.75	* 1.25	0.75	* : Egyptian Requirement For Approach Embankment
4) Earthwork Section : Level	m	2.25	2.50	2.25	1.25	2.25	0.75	2.25	0.75	For Access Road
Strip Width	m	-	0.75	-	0.25	-	0.25	-	0.25	
Median Width	m	3.00	3.00	3.00	1.00	3.00	1.00	3.00	1.00	
Crossfall	%	-	2.0	-	2.0	-	2.0	-	2.0	
Maximum Superelevation	%	-	10.0	-	10.5	-	10.5	-	11.5	
Maximum Vertical Grade	%	4.0	3.0	5.0	4.0	6.0	5.0	7.0	6.0	Rolling Desert Road
Stopping Sight Distance	m	165	160	100	110	75	75	60	55	
Minimum Horizontal Curve Radius	m	350	460	250	280	120	150	80	100	
Minimum Horizontal Curve Radius not Requiring Transition Curve	m	-	3,000	-	2,000	-	1,000	-	700	
Minimum Vertical Curve Radius for ;										
1) Crest Curve	m	-	6,500	-	3,000	-	1,400	-	800	
2) Sag Curve	m	-	3,000	-	2,000	-	1,000	-	700	

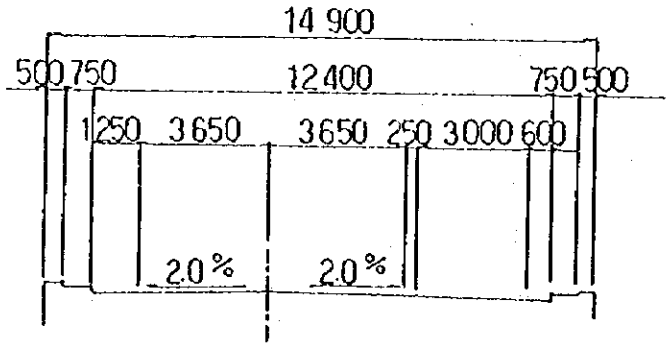
Option 1



4 Lanes for Main Bridge



2 Lanes for Main Bridge

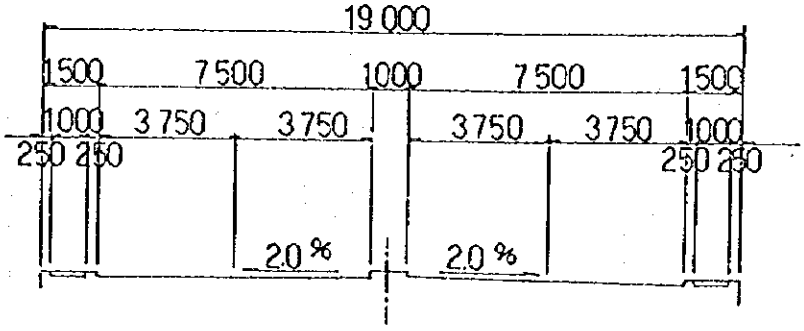


2 Lanes and 1 Additional Lane for Main Bridge

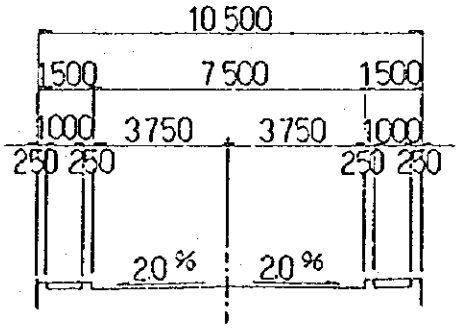
Fig. A6.2.3 Alternative Cross Sections of the Main Bridge (Provisional Proposal of JICA Study Team)

THE FEASIBILITY STUDY ON A BRIDGE OVER NORTHERN PART OF THE SUEZ CANAL

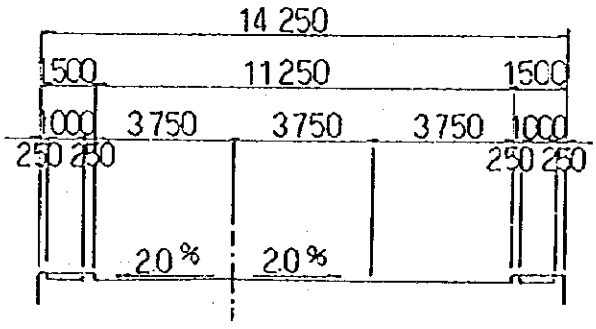
Option 2



4 Lanes for Main Bridge



2 Lanes for Main Bridge

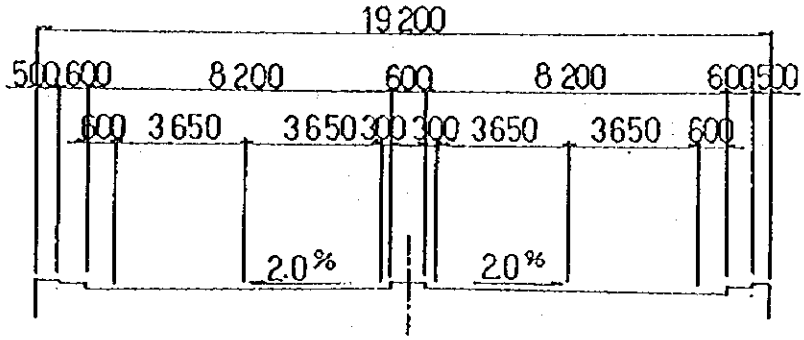


2 Lanes and 1 Additional Lane for Main Bridge

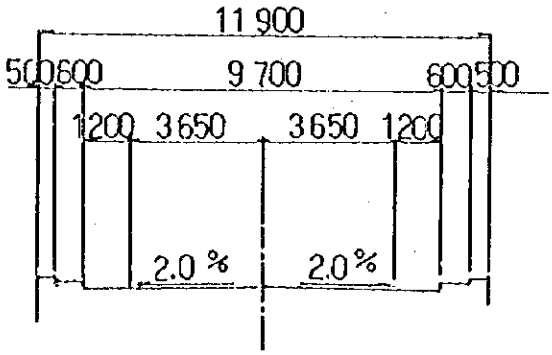
Fig. A6.2.4 **Alternative Cross Sections of the Main Bridge (The Requirement of the Egyptian Team)**

THE FEASIBILITY STUDY ON A BRIDGE OVER NORTHERN PART OF THE SUEZ CANAL

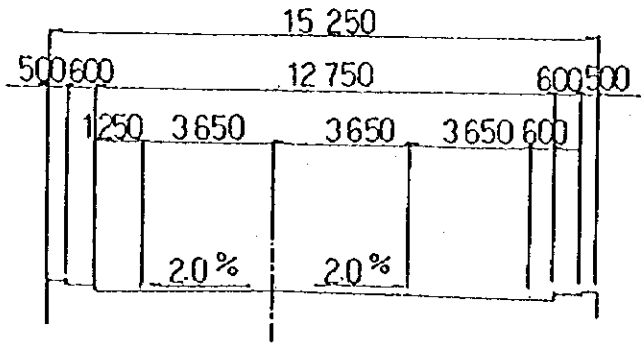
Option 3



4 Lanes for Main Bridge



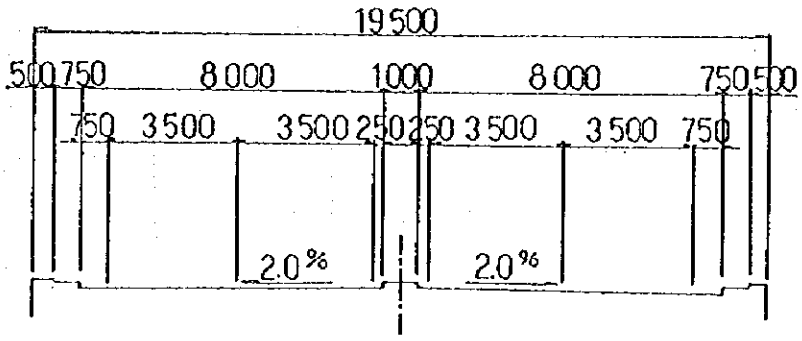
2 Lanes for Main Bridge



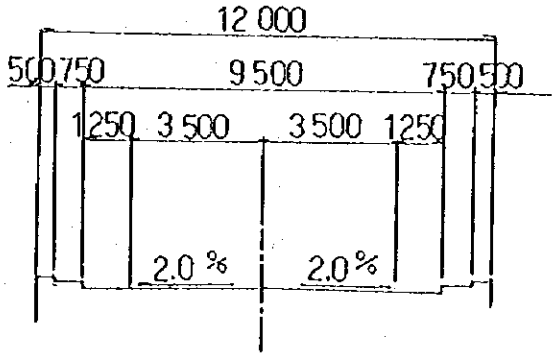
2 Lanes and 1 Additional Lane for Main Bridge

Fig. A6.2.5 Alternative Cross Sections of the Main Bridge (Based on the American Standard)

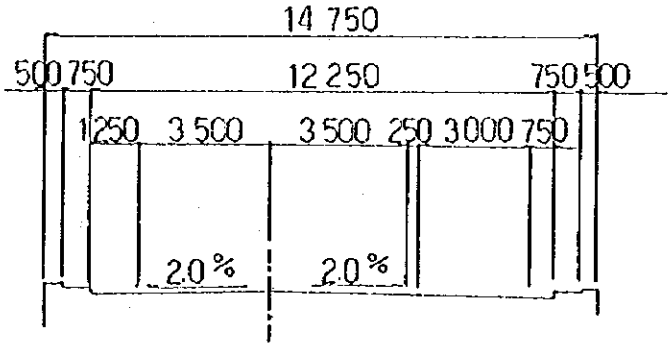
Option 4



4 Lanes for Main Bridge



2 Lanes for Main Bridge

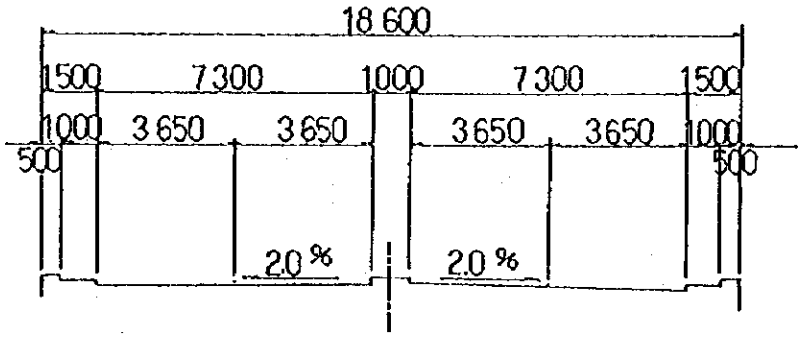


2 Lanes and 1 Additional Lane for Main Bridge

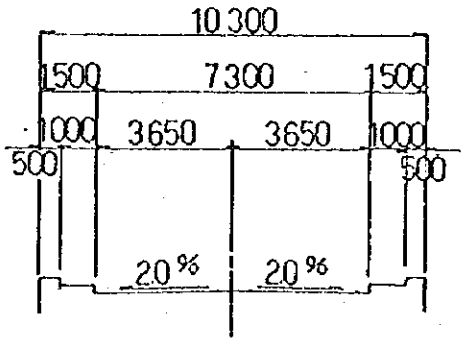
Fig. A6.2.6 **Alternative Cross Sections of the Main Bridge (Based on the Japanese Standard)**

THE FEASIBILITY STUDY ON A BRIDGE OVER NORTHERN PART OF THE SUEZ CANAL

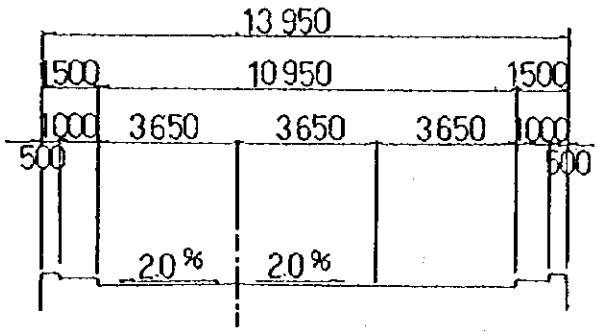
Option 5



4 Lanes for Main Bridge



2 Lanes for Main Bridge



2 Lanes and 1 Additional Lane for Main Bridge

Alternative Cross Sections
Fig. A6.2.7 of the Main Bridge
(Based on the British Standard)

THE FEASIBILITY STUDY ON A BRIDGE OVER NORTHERN PART OF THE SUEZ CANAL

A6.2.4 Arrangement of Traffic Lanes

(1) General

The Study Team has examined the combinations and the number of lanes of the proposed road crossing in this phase. This comparison of the number of lanes is shown in Table A6.2.2.

(2) Comparison of Options

The Study Team compared the merits of the following six traffic lane arrangements. These arrangements are shown in Fig. A6.2.8 to Fig. A6.2.13.

- Option 1 : 4 lanes for main bridge and approach viaducts
- Option 2 : 2 lanes for main bridge and approach viaducts
- Option 3 : 4 lanes for main bridge and 2 lanes for approach viaducts
- Option 4 : 4 lanes for main bridge and 3 lanes for approach viaducts
- Option 5 : 2 lanes for main bridge and 3 lanes for approach viaducts
- Option 6 : 3 lanes for main bridge and approach viaducts

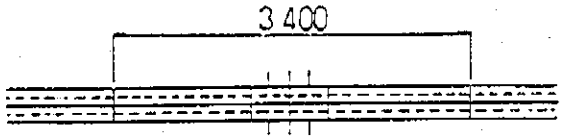
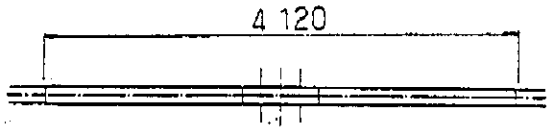
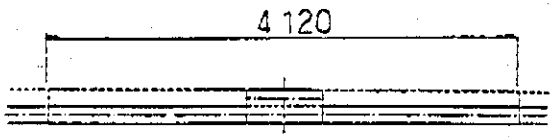
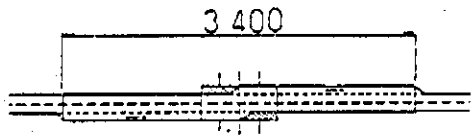
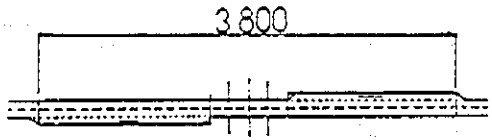
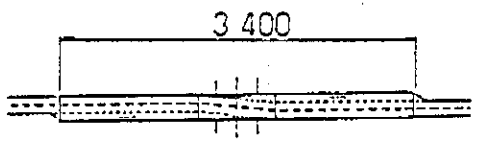
(3) Outline Description of Options

- Options 1 and 2 show conventional arrangement of 4 or 2 lanes over the Canal.
- Option 3 shows a phased construction option. The 2 lanes of the approach sections are constructed initially and the other 2 lanes are constructed at a later stage, when required.
- Options 4 through 6 include a climbing lane for slow vehicles.

(4) Discussion

In general, the number of lanes is selected based upon the projected traffic demand and other related factors. The number of lanes has been studied in this phase base on the data of the future traffic demand projected in Phase 2 and will be decided by discussion with the Egyptian Team after this phase based on the results of this study. The Study Team believe that a 4 lane road (Option 1) will be the most suitable for smooth traffic flow. However, Option 1 will be the most costly to construct. A phased construction type (Option 3) will be the second choice if the Option 1 is considered to be too expensive to construct.

Table A6.2.2 Comparison of Number of Lanes

Alternatives	Plan	Lane No. and Width (Vertical Grade)		Comments	Bridge Area (m^2) (Length : m)			Priority
		Main	Approach		Main Br.	Approach	Total	
Option 1 4 Lanes for Main Bridge and Approach Viaducts		4 Lanes 18.8 m (4.0%)	4 Lanes 18.8 m (4.0%)	The most preferable for traffic operation, but the highest construction cost.	12,600 (670)	53,300 (2,730)	63,900 (3,400)	High
Option 2 2 Lanes for Main Bridge and Approach Viaducts		2 Lanes 11.3 m (3.3%)	2 Lanes 11.3 m (3.3%)	The cheapest alternative, but It is not preferable for traffic. A lower vertical grade is required for slow vehicles.	7,600 (670)	39,000 (3,450)	46,600 (4,120)	Low
Option 3 4 Lanes for Main Bridge and 2 Lanes for Approach Viaducts		4 Lanes 18.8 m (3.3%)	2 Lanes 11.8 m (3.3%)	2 lanes of the 4 lane approach viaducts are constructed at the initial stage. The initial construction cost is lowest. (Phase Construction)	12,600 (670)	39,000 (3,450)	51,600 (4,120)	High
Option 4 4 Lanes for Main Bridge and 3 Lanes for Viaducts		4 Lanes 18.8 m (4.0%)	3 Lanes 13.9 m (4.0%)	A climbing lane is provided for slow vehicles on the approach sections. 4 lanes on the main bridge.	12,600 (670)	37,900 (2,730)	50,500 (3,400)	Medium
Option 5 2 Lanes for Main Bridge and 3 Lanes Approach Viaducts		2 Lanes 11.8 m (2.0%)	3 Lanes 13.9 m (4.0%)	A climbing lane is provided for slow vehicles on the approach sections. 4 lanes on the main bridge.	7,600 (670)	43,500 (3,130)	51,100 (3,800)	Low
Option 6 3 Lanes for Main Bridge and Approach Viaducts		3 Lanes 13.9 m (4.0%)	3 Lanes 13.9 m (4.0%)	A traffic lane shift on the main bridge. It is not preferable for traffic.	9,300 (670)	38,000 (2,730)	47,300 (3,400)	Low

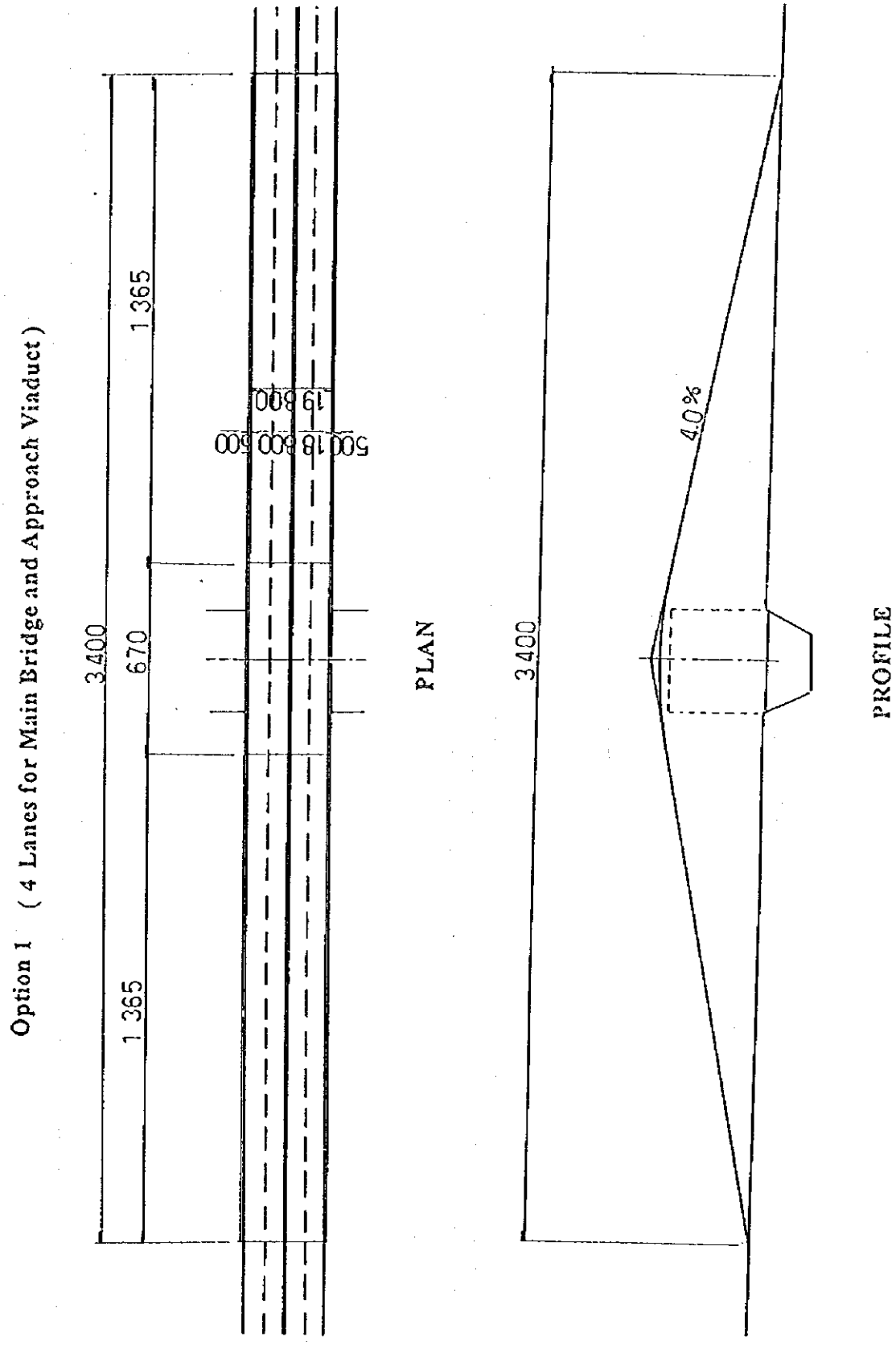


Fig. A6.2.8 Traffic Lane Alternative - Option 1

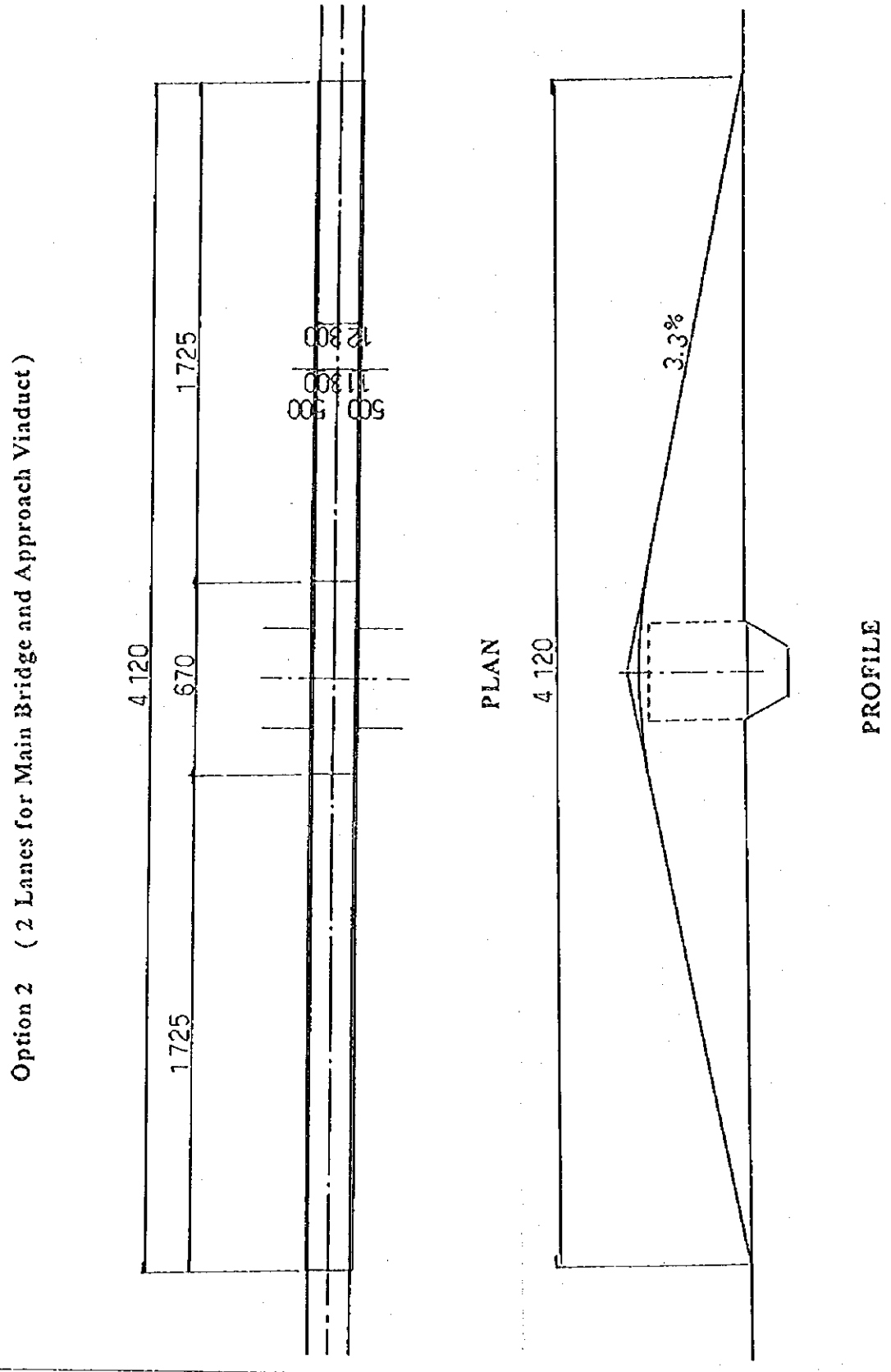


Fig. A6.2.9 Traffic Lane Alternative - Option 2

Fig. A6.2.10 Traffic Lane Alternative - Option 3

THE FEASIBILITY STUDY ON A BRIDGE OVER NORTHERN PART OF THE SUEZ CANAL

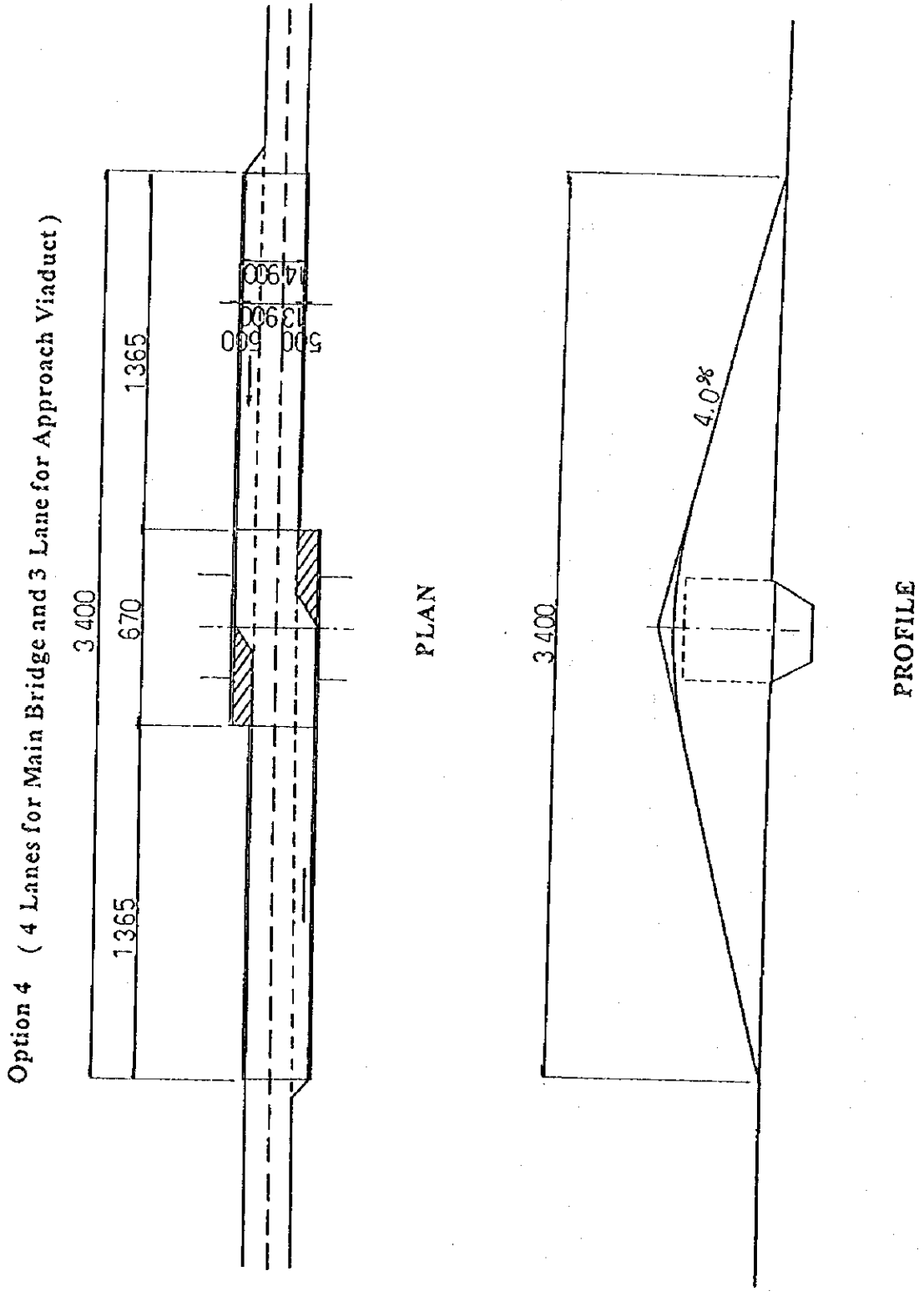


Fig. A6.2.11 Traffic Lane Alternative - Option 4

THE FEASIBILITY STUDY ON A BRIDGE OVER NORTHERN PART OF THE SUEZ CANAL

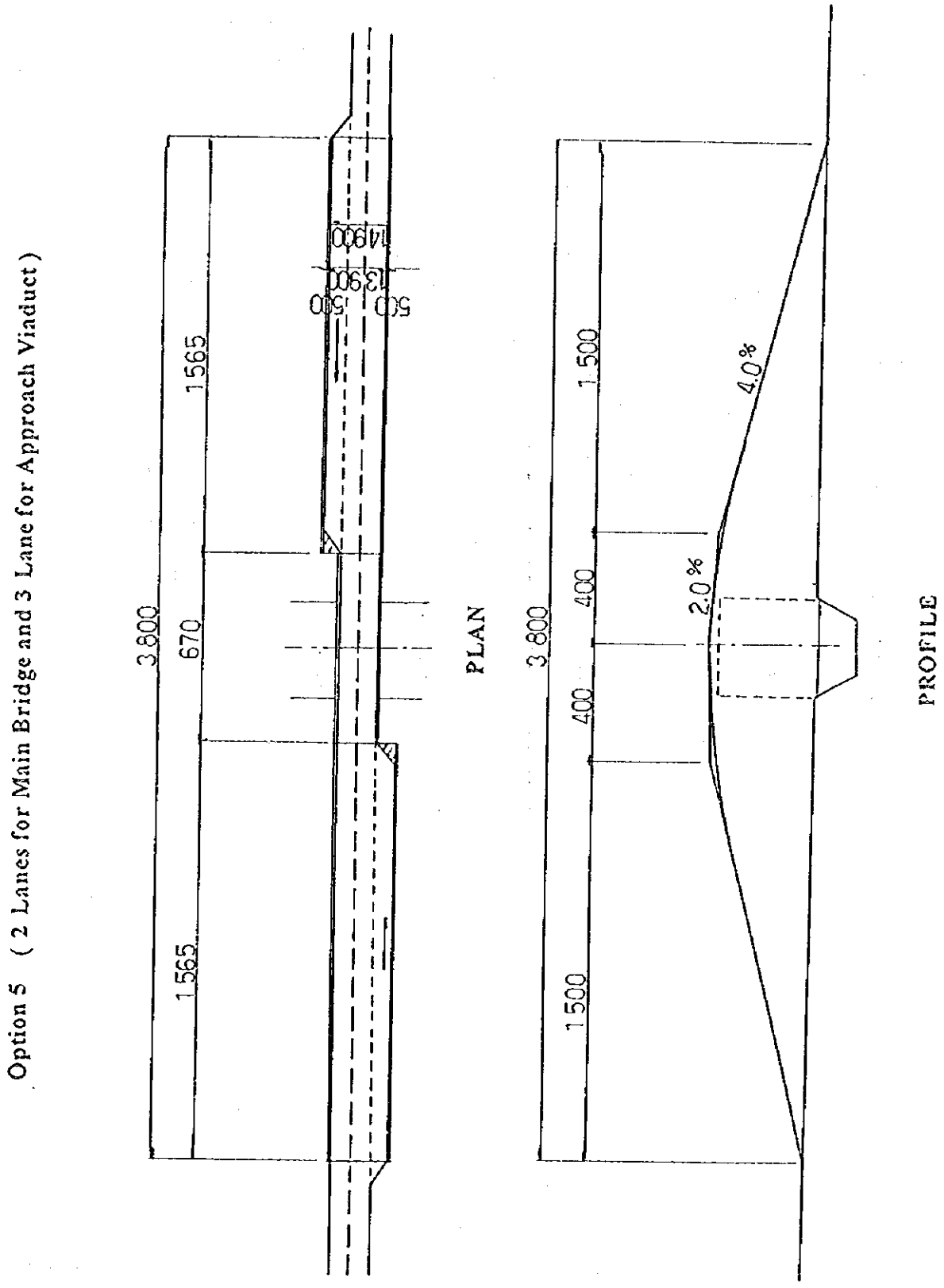


Fig. A6.2.12 Traffic Lane Alternative - Option 5

Option 6 (3 Lanes for Main Bridge and Approach Viaduct)

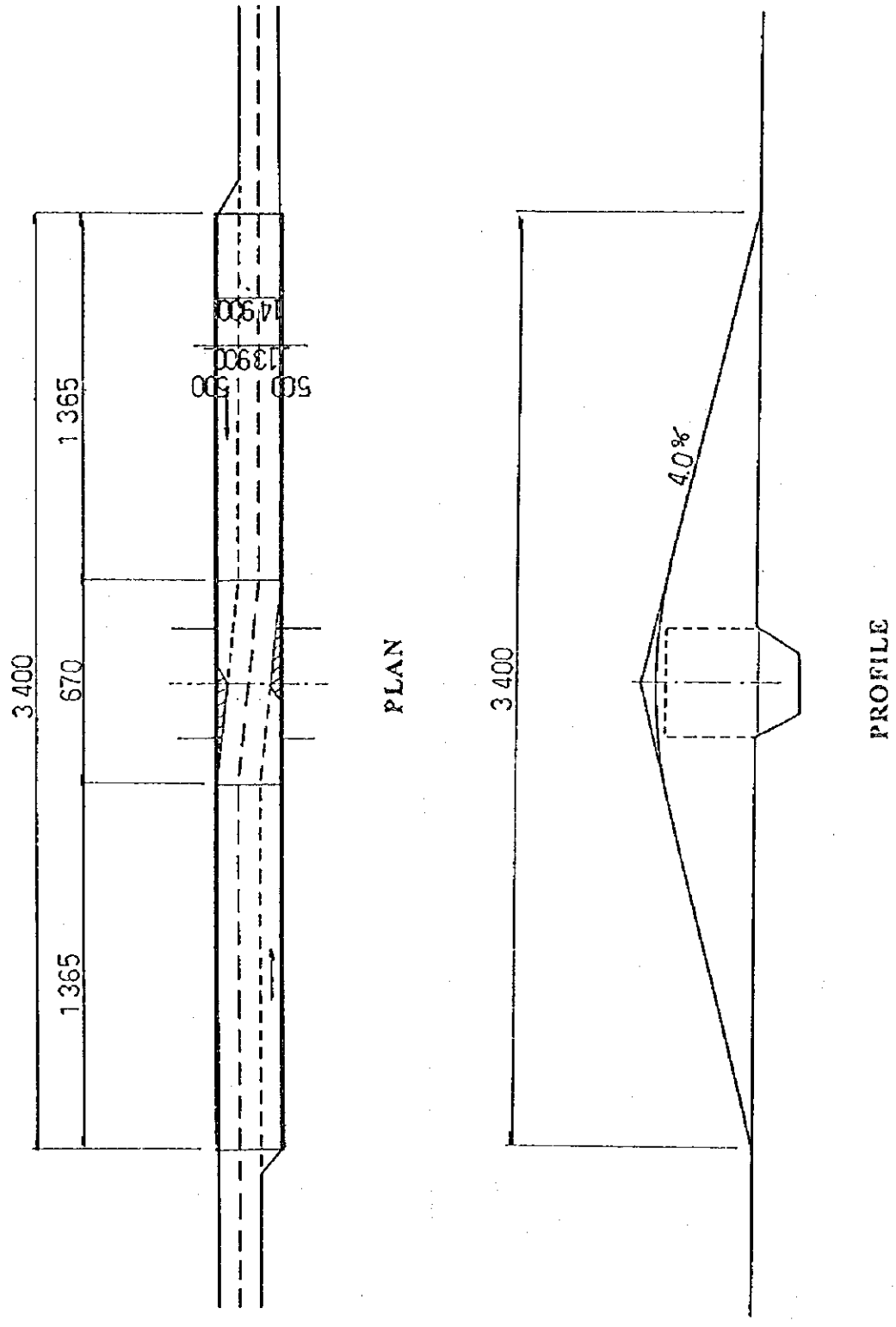


Fig. A6.2.13 Traffic Lane Alternative - Option 6