

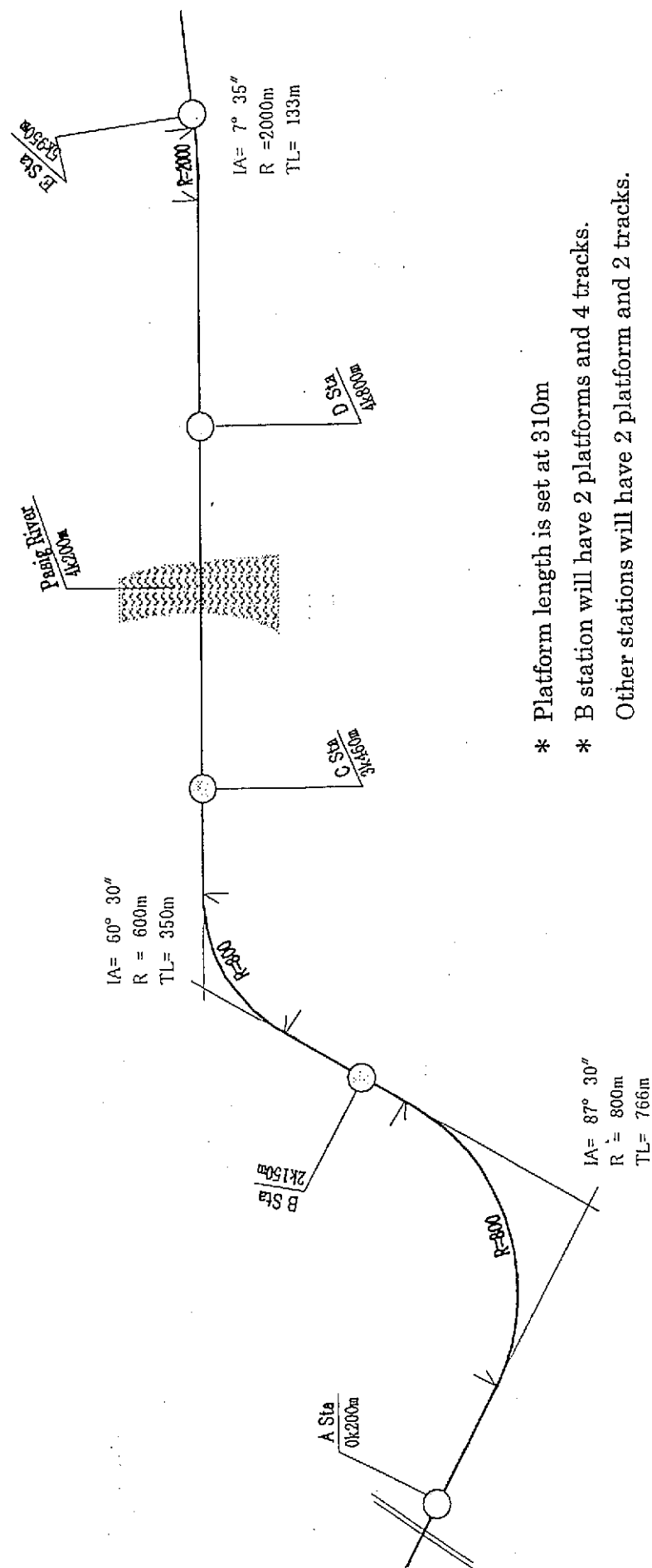
6.2.5 Sectional kilometer of North Rail line and MCX Line

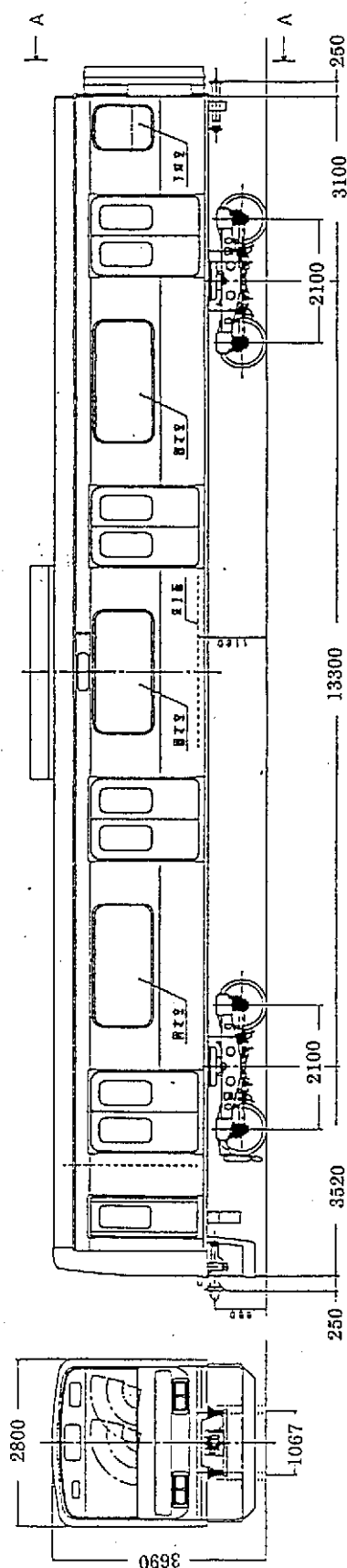
North Rail & MCX

Case 2 : Elevated						Case 4 : Underground			
	km	km				km	km		
1	Marilao	17.00	3.10			1	Marilao	17.00	3.10
2	Meycauyan	13.90	3.50			2	Meycauyan	13.90	3.50
3		10.40	4.50			3		10.40	4.50
4		5.90	1.30			4		5.90	1.30
5	Caloocan	4.60	3.60			5	Caloocan	4.60	3.60
6		1.00	0.50			6		1.00	0.50
7		0.50	0.50			7		0.50	0.50
8	Tayuman	0.00	1.70	0.00	1.5	8	A (Tayuman	0.00	1.97
9	Blumentritt	1.70	1.10	1.50	1.8	9	B (D. Jose)	1.97	1.27
10	Laon Laon	2.80	0.52			10	C	3.24	1.37
11	Espana	3.32	1.96	3.30	2.0	11	D	4.61	1.17
12	Sta. Mesa	5.28	1.49	5.30	2.9	12	E	5.78	1.10
13	Pandacan	6.77	1.42			13	Vito Cruz	6.88	1.06
14	Paco	8.19	1.67	8.20	2.7	14	Buendia	7.94	1.12
15	Vito Cruz	9.86	1.06			15	Pasay	9.06	1.11
16	Buendia	10.92	1.12	10.90	1.2	16	EDSA	10.17	3.05
17	Pasay	12.04	1.11	12.10	1.1	17	FTJ	13.22	3.60
18	EDSA	13.15	3.05	13.20	6.6	18	Bicutan	16.82	4.01
19	FTJ	16.20	3.60			19	Sucat	20.83	3.68
20	Bicutan	19.80	4.01	19.80	4.0	20	Alabang	24.51	3.31
21	Sucat	23.81	3.68	23.80	3.7	21	Muntinlupa	27.82	3.56
22	Alabang	27.49	3.31	27.50	3.3	22	San Pedro	31.38	4.20
23	Muntinlupa	30.80	3.56	30.82	3.6	23	Binan	35.58	4.04
24	San Pedro	34.36	4.20	34.37	4.2	24	Sta. Rosa	39.62	3.61
25	Binan	38.56	4.04	38.57	4.0	25	Cabuyao	43.23	
26	Sta. Rosa	42.60	3.61	42.61	3.6				
27	Cabuyao	46.21							
	Total	63.21						60.23	
-2.98									

## 6.2.6 North Rail/MCX Track Layout (Horizontal alignment) Plan 2

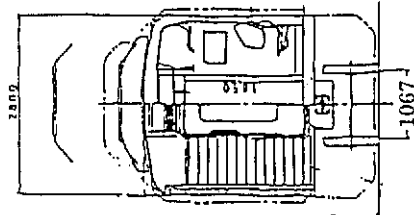
### Horizontal alignment





Type	JR East 209 series
Train formation	4M6T
Car type	Tc'
Nominal passenger capacity	146 (seet:45) :3pers/m <sup>2</sup>
Tare	23.0 ton
Maximum speed	110 km/h
Maximum speed	DC1,500V

Architectural floor plan of a large hall, likely a school or institutional building. The plan shows a rectangular layout with a grid of columns and rows. Dimensions are marked along the perimeter: 19500 on the left, 12000 on the top, 12000 on the right, and 12000 on the bottom. The plan includes a detailed section line labeled 'A-A' and 'B-B'.



Type	JR East 209 series
Train formation	4M6T
Car type	M1 (VVVF)
Nominal passenger capacity	156 (seat:54) :3pers/m <sup>2</sup>
Tare	27.7 ton
Maximum speed	110 km/h
Maximum speed	DC1,500V

Trial	Control (n=10)	MCI (n=10)	AD (n=10)
1	95	85	75
2	90	80	70
3	85	75	65
4	80	70	60
5	85	75	65

### Train Operation Time: Plan 2

Ap.6-41

## 6.2.9 (1) Transport Volume and Passenger kilometer, etc. by Each line

### Transport Volume

(persons/day) 2015

	Separate (Line1, Line3)		Through (Line1 and Line3)	
	Case1 Elevated	Case2 Underground	Case3 Elevated	Case4 Underground
line 1	594,933	559,368	645,397	637,037
line 3	556,047	523,528	590,340	544,003
Total	1,150,980	1,082,896	1,235,737	1,181,040
line 2	557,607	574,287	571,797	588,305
line 4	750,371	742,128	745,177	736,884
line 6	404,095	403,291	404,909	404,012
NR/MCX	1,233,684	1,404,842	1,225,888	1,400,206
Total	2,945,757	3,124,548	2,947,771	3,129,407
G.Total	4,096,737	4,207,444	4,183,508	4,310,447

### Transport Volume Person\*kilometer

2015

(\*1000Pers.km/day)

	Case 1	Case 2	Case 3	Case 4
Line1,3	Not Connect		Connected	
PNR	Ground	Subway	Ground	Subway
Line 1	4,929	4,325	5,874	5,206
Line 3	5,083	5,588	7,087	6,726
Total	10,011	9,913	12,961	11,932
Line 2	4,724	4,971	4,739	4,986
Line 4	7,507	7,391	7,501	7,375
Line 6	2,663	2,657	2,671	2,666
N.R/MCX	26,432	28,893	26,235	28,818
Total	41,326	43,911	41,146	43,845
G.Total	51,338	53,824	54,107	55,777

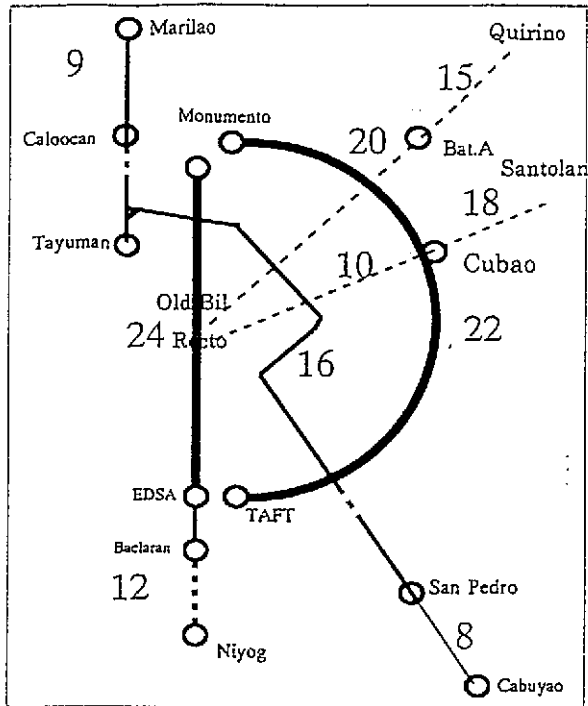
### Train-kilometer

(km/day) 2015

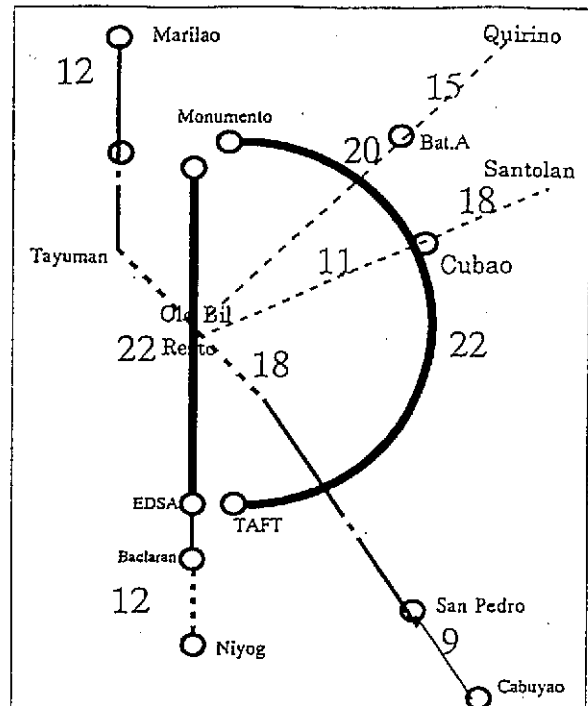
	Case 1	Case 2	Case 3	Case 4
Line 1	6,417	5,859	7,366	7,366
Line 3	9,297	10,378	10,377	10,377
Total	15,714	16,237	17,743	17,743
Line 2	4,424	4,621	4,424	4,621
Line 4	7,428	7,366	7,305	7,153
Line 6	2,829	2,829	2,829	2,829
N.R/MCX	16,088	15,976	16,088	15,976
Total	30,769	30,792	30,646	30,579
G.Total	46,483	47,029	48,389	48,322

# 6.2.9 (2) Train Operation Plan (peak hour/one way)

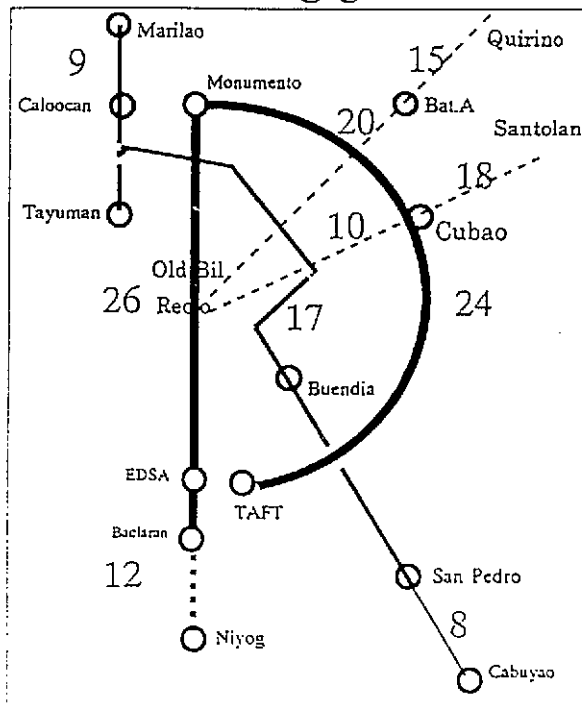
C-1



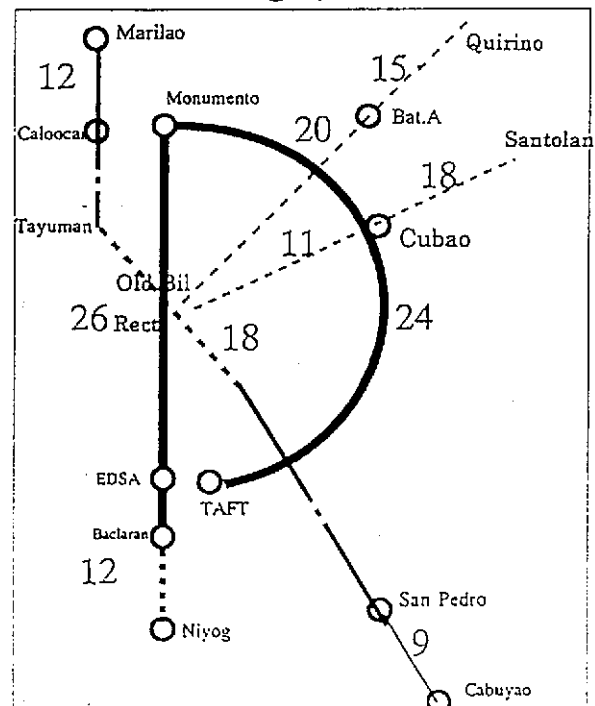
C-2



C-3



C-4



# 6.2.10 (1) Transport Plan of Line 1 (Case 1)

## Case 1 Line 1

PNR:Ground--Not connect

Line 1	Bac~ED	ED~Lib	Lib.~G.Pu	G.Pu~Vit	Vit~Qui	Qui~Ped	Ped~U.N.J.N.	U.N.J.N.~Gen	Gen~Car	Car~Carr	Carr~D.Jd	D.Jd~Bant	Bant~Bam	Bam~Tay	Tay~Bru
Section	km	0.59	1.01	0.73	1.06	0.83	0.75	1.21	0.73	0.68	0.65	0.62	0.67		
Carried	→(N.B)	113409	137032	186333	198460	213014	232229	231231	253384	244353	178321	173271	155619		
(pes./day)	←(S.B)	94324	116486	171664	183220	201167	220075	217033	262996	247332	215286	188071	173059		
Peak hour	→(N.B)	11,341	13,703	18,633	19,846	21,301	23,223	23,123	25,338	24,435	17,832	17,327	15,562		
*10%	←(S.B)	9,432	11,649	17,166	18,322	20,117	22,008	21,703	26,300	24,733	21,529	18,807	17,306		
No. of Train	No./1way	24	24	24	24	24	24	24	24	24	24	24	24		
Trans. Capa	(p./h)	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888		
912	%(→)	51.8	62.6	85.1	90.7	97.3	106.1	105.6	115.8	111.6	81.5	79.2	71.1		
(pes./train)	%(←)	43.1	53.2	78.4	83.7	91.9	90.5	99.2	120.2	113.0	98.4	85.9	79.1		
Pers.-km	→(N.B)	66,911	138,402	136,023	210,368	176,802	183,528	174,172	184,970	166,160	115,909	107,428	104,265		
	←(S.B)	55,651	117,651	125,315	194,213	166,969	156,456	262,610	191,987	168,186	139,936	116,604	115,950		

Bru~A.San	San~R.Pa	R.Pa~5th	5th~A.Mon	Total
0.93	0.66	0.95	1.09	13.95
133553	132699	125495	125495	
137876	134540	119657	99866	
13,355	13,270	12,550	12,550	
13,788	13,454	11,966	9,987	Train-km
24	24	24	24	669.6
21,888	21,888	21,888	21,888	
61.0	60.6	57.3	57.3	
63.0	61.5	54.7	45.6	
124,204	87,581	119,220	136,790	2,512,522
128,225	88,796	113,674	108,854	2,416,132
Total				4,928,654



# 6.2.10 (2) Transport Plan of Line 1 (Case 2)

Case 2 Line 1 PNR: Underground--Not connect

Line 1	Bac~ED	ED~Lib	Lib~G.Pu	G.Pu~Vit	Vit~Qui	Qui~Ped	Ped~U.N.	U.N.~Cen	Sent~Car	Carr~D.Jd	D.Jd~Ban	Ban~Tay	Tay~Bru
Section	km	0.59	1.01	0.73	1.06	0.83	0.75	1.21	0.73	0.68	0.65	0.62	0.67
Carried	→(N.B)	110259	132228	178268	187866	201728	221492	218061	232483	223848	142080	138043	120675
(pes./day)	←(S.B)	88470	108094	159602	167664	184270	198471	193852	224935	211533	172017	147285	134076
Peak hour	→(N.B)	11,026	13,223	17,827	18,787	20,173	22,149	21,806	23,248	22,385	14,208	13,804	12,068
*10%	←(S.B)	8,847	10,809	15,960	16,766	18,427	19,847	19,385	22,494	21,153	17,202	14,729	13,408
No. of Train	No./1way	22	22	22	22	22	22	22	22	22	22	22	22
Trans. Capa	(p./h)	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064
912	%(→)	55.0	65.9	88.8	93.6	100.5	110.4	108.7	115.9	111.6	70.8	68.8	60.1
(pes./train)	%(←)	44.1	53.9	79.5	83.6	91.8	90.3	96.6	112.1	105.4	85.7	73.4	66.8
Pers.-km	→(N.B)	65,053	133,550	130,136	199,138	167,434	175,041	263,854	169,713	152,217	92,352	85,587	80,852
	←(S.B)	52,197	109,175	116,509	177,724	152,944	143,133	234,561	164,203	143,842	111,811	91,317	89,831

Br~A.San	San~R.P.	R.Pa~5th	th.A.~Mon	Total
0.93	0.66	0.95	1.09	13.95
102149	102364	95014	95014	
109671	106386	98283	78697	
10,215	10,236	9,501	9,501	
10,967	10,639	9,828	7,870	Train-km
22	22	22	22	613.8
20,064	20,064	20,064	20,064	
50.9	51.0	47.4	47.4	
54.7	53.0	49.0	39.2	
94,999	67,560	90,263	103,565	2,237,432
101,994	70,215	93,369	85,780	2,087,458
				4,324,890

# 6.2.10 (3) Transport Plan of Line 3 (Case 1)

## Case 1 Line 3

PNR:Ground--Not connect

Line 3		Mon.~Bal	Bal.~Roo	Roo.~Noi	Nort.~Qu	Que.~Kar	Kam.~Cu	Cuba~Sa	Sant~Ord	Orti~Sha	Shaw~Bo	Boni~Gu	Guad~Bu	Buen~Ay
Section	km	1.80	1.75	1.65	1.26	0.96	1.93	1.42	2.33	0.80	0.98	0.84	1.90	0.90
Carried	→(S.B)	53101	67347	71283	79163	115407	118672	156873	156849	167157	131127	139799	126772	112613
(pes./day)	←(N.B)	43368	49033	67994	71935	116071	131103	175493	160111	163044	187199	181041	177470	172366
Peak hour	→(S.B)	5310	6735	7128	7916	11541	11867	15687	15685	16716	13113	13980	12677	11261
*10%	←(N.B)	4337	4903	6799	7194	11607	13110	17549	16011	16804	18720	18104	17747	17237
No.of Train	No./1way	22	22	22	22	22	22	22	22	22	22	22	22	22
Trans.Capa	(p/h)	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444	15,444
702	%(→)	34.4	43.6	46.2	51.3	74.7	76.8	101.6	101.6	108.2	84.9	90.5	82.1	72.9
(pes./train)	%(←)	28.1	31.7	44.0	46.6	75.2	84.9	113.6	103.7	108.8	121.2	117.2	114.9	111.6
Pers.-km	→(S.B)	95,582	117,857	117,617	99,745	110,791	229,037	222,760	365,458	133,726	128,504	117,431	240,867	101,352
	←(N.B)	78,062	85,808	112,190	90,638	111,428	253,029	249,200	373,059	134,435	183,455	152,074	337,193	155,129

Aya~Maga	Maga~Ta	Total
1.20	1.90	21.62
108143	85405	
162331	105001	
10,814	8,541	
16,233	10,500	Train-km
22	22	951.28
15,444	15,444	
70.0	55.3	
105.1	68.0	
129,772	162,270	2,372,768
194,797	199,502	2,710,000
Total	Total	5,082,768

# 6.2.10 (4) Transport Plan of Line 3 (Case 2)

Case 2 Line 3 PNR: Underground---Not connect

Line 3		Mon.~Bal	Bal.~Roo	Roo.~Nor	Nor.~Qu	Que.~Kar	Kam.~Cu	Cuba~Sa	Sant~Ort	Orti~Sha	Shaw~Bo	Boni~Gu	Guad~Bu	Buen~Ay
Section	km	1.80	1.75	1.65	1.26	0.96	1.93	1.42	2.33	0.80	0.98	0.84	1.90	0.90
Carried	→(S.B)	62777	125894	125830	128705	134964	136593	163571	163551	187653	144996	136736	119778	102791
(pes./day)	←(N.B)	48738	53271	72254	76569	122358	136996	183767	168379	176446	201899	202395	197752	192653
Peak hour	→(S.B)	6,278	12,589	12,583	12,871	13,496	13,659	16,357	16,355	18,765	14,500	13,674	11,978	10,279
*10%	←(N.B)	4,874	5,327	7,225	7,657	12,236	13,700	18,377	16,838	17,645	20,190	20,240	19,775	19,265
No. of Train	No./1way	24	24	24	24	24	24	24	24	24	24	24	24	24
Trans. Capa	(p./h)	16,848	16,848	16,848	16,848	16,848	16,848	16,848	16,848	16,848	16,848	16,848	16,848	16,848
702	% (→)	37.3	74.7	74.7	76.4	80.1	81.1	97.1	97.1	111.4	86.1	81.2	71.1	61.0
(pes./train)	% (←)	28.9	31.6	42.9	45.4	72.6	81.3	109.1	99.9	104.7	119.8	120.1	117.4	114.3
Pers.-km	→(S.B)	112,999	220,315	207,620	162,168	129,565	263,624	232,271	381,074	150,122	142,096	114,858	227,578	92,512
	←(N.B)	87,728	93,224	119,219	96,477	117,464	264,402	260,949	392,323	141,157	197,861	170,012	375,729	173,388

Aya~Mag	Maga~Ta	Total
1.20	1.90	21.62
97048	84237	
138778	114793	
9,705	8,424	
13,878	11,479	Train-km
24	24	1,037.8
16,848	16,848	
57.6	50.0	
82.4	68.1	
116,458	160,050	2,713,310
166,534	218,107	2,874,573
		5,587,883

# 6.2.10 (5) Transport Plan of Line 1 and Line 3 (Case 3)

Case 3		Line 1&Line 3										PNR:Ground—Line1&Line3 Connect										4pers/m <sup>2</sup> :912pers/Train										Line 1					Line 1	
Line 1 & Line 3		Bac~ED		ED~Lib		Lib ~G.Pu		G.Pu~Vit		Vit~Qui		Qui~Ped		Ped~UN		UN~Cen		Cen~Bam		Bam~Tay		Tay~Bru		Bru~A.San		A.San~R.Pa		R.Pa~5th		5th~th.A		th.A~Mon						
Section		km		1.01		0.73		1.06		0.83		0.79		0.75		1.21		0.73		0.88		0.65		0.62		0.67		0.93		0.66		0.95		1.09				
Carried	→ (R)	115,343		147,436		206,482		226,875		243,804		253,762		258,624		275,221		286,324		285,455		224,521		225,634		216,734		176,932		168,452		158,709		159,849				
	← (L)	106,378		138,932		203,583		205,536		219,020		229,232		251,885		247,296		284,596		281,031		253,688		235,412		222,567		184,394		180,050		166,885		158,390				
Peak hour	→ (R)	11,534		14,744		20,648		22,888		24,380		25,376		25,862		27,522		28,632		28,546		22,452		22,563		21,673		17,693		16,845		15,871		15,985				
	← (L)	10,638		13,893		20,358		20,554		21,902		22,923		25,189		24,730		28,460		28,103		25,367		23,541		22,257		18,439		18,005		16,689		15,839				
No.of Train	No./1way	26		26		26		26		26		26		26		26		26		26		26		26		26		26		26		26		26				
	Trans.Capa	23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712		23,712				
912	%(→)	48.6		62.2		87.1		95.7		102.8		107.0		109.1		116.1		120.8		120.4		94.7		95.2		91.4		74.6		71.0		66.9		67.4				
	%(←)	44.9		58.6		85.9		86.7		92.4		96.7		106.2		104.3		120.0		118.5		107.0		99.3		93.9		77.8		75.9		70.4		66.8				
Pers.-km	→ (R)	68,052		148,910		150,732		240,488		202,357		200,472		193,968		333,017		209,017		194,109		145,939		139,893		145,212		164,547		111,178		150,774		174,235				
	← (L)	62,763		140,321		148,616		217,868		181,787		181,093		188,914		299,228		207,755		191,101		164,884		145,955		149,120		171,486		118,833		158,541		172,845				
																																		km				
																																		13.95				

Line 3											Line 3												
Mon.~Bat	Bat~Roo	Roo~Nor	Nor~Qu	Qu~Kar	Kar~Kam	Kam~Cui	Cuba~Sa	Sant~Ort	Orti~Sha	Shaw~Bc	Boni~Gu	Guad~Bu	Buen~Av	Aya~Mag	Maga~Ta	Total	(Line 1)	(Line3)					
1,98	1,75	1,65	1,26	0,98	1,93	1,83	1,42	2,33	0,80	0,98	0,84	1,90	0,90	1,20	1,90	35,75							
98,936	142,191	158,839	169,705	175,832	187,838	187,838	187,652	207,307	254,309	215,867	196,731	183,521	166,208	135,666	95,630								
107,504	85,342	97,613	117,823	154,678	170,123	201,722	201,722	187,399	197,845	237,880	215,271	206,516	201,241	183,345	118,532								
9,894	14,219	15,884	16,971	17,583	18,784	18,784	18,765	20,731	25,431	21,587	19,673	18,352	16,621	13,567	9,563								
10,750	8,534	9,761	11,782	15,468	17,012	20,172	20,172	18,740	19,785	23,788	21,527	20,652	20,124	18,335	11,853	Train-km							
24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	1,771.8	725.4	1,046.4					
21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888								
45.2	65.0	72.6	77.5	80.3	85.8	85.8	85.7	94.7	116.2	98.6	89.9	83.8	75.9	62.0	43.7								
49.1	39.0	44.6	53.8	70.7	77.7	77.7	92.2	85.6	90.4	108.7	98.4	94.4	91.9	83.8	54.2								
195,893	248,834	262,084	213,828	168,799	382,527	382,527	266,466	483,025	203,447	211,550	165,254	348,690	149,587	162,799	181,697	6,597,382	2,972,900	3,624,482					
212,858	149,349	161,061	148,457	148,491	328,337	328,337	286,445	436,640	158,276	233,122	180,828	392,380	181,117	220,014	225,211	6,363,497	2,900,911	3,462,586					
																12,960,879	5,873,811	7,087,068					
																km							

# 6.2.10 (6) Transport Plan of Line 1 and Line 3 (Case 4)

Case 4 Line 1&Line 3 PNR:Underground—Line1&Line3 Connect 4pers./m<sup>2</sup>:912pers./Train

Line 1 & Line 3	Bac~ED	ED~Lib	Lib~G.Pu	G.Pu~Vit	Vit~Qui	Qui~Ped	Ped~UN	UN~JUN	JUN~Cent	Cent~Car	Car~D.Jo	Jo~Ban	Ban~Bam	Bam~Tay	Tay~Bru	Bru~A.San	A.San~R.Pa	R.Pa~5th	5th~A.~Mon
Section	km	0.59	1.01	0.73	1.06	0.83	0.79	0.75	1.21	0.73	0.68	0.65	0.62	0.67	0.57	0.93	0.86	0.95	1.09
Carried	→ (R)	115,332	147,325	168,342	197,582	220,535	243,612	238,621	254,327	280,204	276,780	186,389	186,673	174,724	174,724	157,533	139,268	132,004	128,085
(pes./day)	← (L)	100,323	149,208	195,489	195,489	206,586	219,016	219,115	231,822	232,665	242,378	193,929	181,134	175,663	175,663	156,358	144,292	133,281	126,421
Peak hour	→ (R)	11,533	14,733	16,834	19,756	22,054	24,361	23,862	25,433	28,020	27,678	18,639	18,667	17,472	17,472	15,753	13,927	13,200	12,809
*10%	← (L)	10,032	14,921	19,549	19,549	20,659	21,902	21,912	23,182	23,267	24,238	19,393	18,113	17,566	17,566	15,636	14,429	13,328	12,642
No. of Train	No./1way	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Trans. Capa	(p./h)	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712	23,712
912	%(→)	48.6	62.1	71.0	83.3	93.0	102.7	100.6	107.3	118.2	116.7	78.6	78.7	73.7	73.7	66.4	58.7	55.7	54.0
(pes./train)	%(←)	42.3	62.9	82.4	82.4	87.1	92.4	92.4	97.8	98.1	102.2	81.8	78.4	74.1	74.1	65.9	60.9	56.2	53.3
Pers.-km	→ (R)	88,046	148,798	122,890	209,416	183,044	192,453	178,966	307,736	204,549	188,210	121,153	115,737	117,065	117,065	146,506	91,917	125,404	139,813
← (L)	59,191	150,700	142,707	207,218	171,466	173,023	164,338	280,505	169,845	164,817	126,054	117,694	112,303	117,694	117,694	145,413	95,233	126,617	137,799
km																			

## Line 3

Mon.~Bal	Bal~Roo	Roo~Nor	Nor~Qui	Qui~Que	Que~Kar	Kar~Kam	Kam~Cul	Cul~Cuba	Cuba~Sa	Sa~Sant	Sant~Ort	Ort~Shal	Shal~Ba	Ba~Boni	Boni~Guad	Guad~Bu	Bu~Buen	Buen~Ay	Ay~Maga	Maga~Ta	Total	(Line 1)	(Line3)
1.98	1.75	1.65	1.26	1.26	0.96	0.96	1.93	1.42	1.42	2.33	0.80	0.80	0.98	0.84	0.84	1.90	0.90	0.90	1.20	1.90	35.75		
84,527	133,472	148,110	154,110	177,578	177,578	177,578	177,578	192,459	192,459	230,458	253,435	229,024	203,266	166,381	166,381	155,695	155,695	147,511	147,511	84,335			
86,313	96,595	113,233	115,347	136,839	136,839	136,839	164,570	178,878	178,878	202,316	198,019	188,506	186,738	173,577	173,577	165,882	165,882	150,903	150,903	86,752			
8,453	13,347	14,811	15,411	17,758	17,758	17,758	17,758	19,246	19,246	23,046	25,344	22,902	20,327	16,638	16,638	15,570	15,570	14,751	14,751	8,434			
8,631	9,660	11,323	11,535	13,684	13,684	13,684	16,457	17,888	17,888	20,232	19,802	18,851	18,674	17,358	17,358	16,588	16,588	15,090	15,090	8,675			
24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	1,771.8	725.4	1,046.4
21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888			
38.6	61.0	67.7	70.4	81.1	81.1	81.1	81.1	87.9	87.9	105.3	115.8	104.6	92.9	76.0	76.0	71.1	71.1	67.4	67.4	38.5			
39.4	44.1	51.7	52.7	62.5	62.5	62.5	75.2	81.7	81.7	92.4	90.5	86.1	85.3	79.3	79.3	75.8	75.8	68.9	68.9	39.6			
167,363	233,576	244,382	194,179	170,475	342,726	342,726	342,726	273,292	273,292	536,967	202,748	224,444	170,743	316,124	140,126	177,013	180,237	62,15,895	2,661,502	2,661,502	3,554,393		
170,900	169,041	186,834	145,337	131,365	317,620	317,620	317,620	254,007	254,007	471,396	158,415	184,736	156,860	329,796	149,294	181,084	164,829	5,716,436	2,544,921	2,544,921	3,171,515		
km																					11,932.331	5,206,423	6,725,908

### 6.2.11 (1) Transport Plan of Line 2 (Case 1 & 2)

Case 1		Line 2		PNR:Ground—Not connect													
Line 2		Rec~Leg	Leg~Pur	Pur~Ara	Ara~J.R	J.R~Gil	Gil~Bos	Bos~Cub	Cub~And	Ano~Kat	Kat~San	San~*	*~#	Total			
Section	km	0.95	1.38	1.5	1.07	0.91	1.07	1.33	1.25	0.98	2.10	1.39	2.58	16.49			
Carried	→(E.B)	57636	84568	93796	119432	120718	119337	119050	206639	202016	174307	174307	161609				
(pes./day)	←(W.B)	60214	65620	97061	111542	112784	113431	113431	214637	214793	201423	201423	172742				
Peak hour	→(E.B)	5,764	8,457	9,380	11,943	12,072	11,934	11,905	20,664	20,202	17,431	17,431	16,161				
*10%	←(W.B)	6,021	6,562	9,706	11,154	11,278	11,343	11,343	21,464	21,479	20,142	20,142	17,274	Train-km			
No.of Train	No./lway	10	10	10	10	10	10	10	18	18	18	18	18	462.3			
Trans.Cap.	(p./h)	10,300	10,300	10,300	10,300	10,300	10,300	10,300	18,540	18,540	18,540	18,540	18,540				
1030	%(→)	56.0	82.1	91.1	116.0	117.2	115.9	115.6	111.5	109.0	94.0	94.0	87.2				
(pes./train)	%(←)	58.5	63.7	94.2	108.3	109.5	110.1	110.1	115.8	115.9	108.6	108.6	93.2				
Pers.-km	→(E.B)	54,754	116,704	140,694	127,792	109,853	127,691	158,337	258,299	193,935	366,045	242,287	416,951	2,313,342			
	←(W.B)	57,203	90,556	145,592	119,350	102,633	121,371	150,863	268,296	206,201	422,988	279,978	445,674	2,410,706			
														km			
														8.21			

Case 2 Line 2															PNR:Underground---Not connect																
Line 2		Section		km		Rec~Leg	Leg~Pur	Pur~Ara	Ara~J.R	J.R~Gil	Gil~Bos	Bos~Cub	Cub~Ano	Ano~Kat	Kat~San	San~*	*~#	Total													
						0.95	1.38	1.5	1.07	0.91	1.07	1.33	1.25	0.96	2.10	1.39	2.58		16.49												
	Carried		→(E.B)		74326	106282	114370	131952	132206	126704	126421	210657	206004	178022	178022	178022	165922														
	(pes./day)		←(W.B)		71695	77149	106836	121309	122484	120364	120364	218057	218238	203194	203194	203194	174487														
	Peak hour		→(E.B)		7,433	10,628	11,437	13,195	13,221	12,670	12,642	21,066	20,600	17,802	17,802	17,802	16,592														
	*10%		←(W.B)		7,170	7,715	10,684	12,131	12,248	12,036	12,036	21,806	21,824	20,319	20,319	20,319	17,449	Train-km													
	No.of Train		No./lway		11	11	11	11	11	11	11	11	18	18	18	18	18	478.7													
	Trans.Cap.		(p./h)		11,330	11,330	11,330	11,330	11,330	11,330	11,330	11,330	18,540	18,540	18,540	18,540	18,540														
	1030		%(-→)		65.6	93.8	100.9	116.5	116.7	111.8	111.6	111.6	111.1	96.0	96.0	96.0	89.5														
	(pes./train)		%(←)		63.3	68.1	94.3	107.1	108.1	106.2	106.2	117.6	117.7	109.6	109.6	109.6	94.1														
	Pers.-km		→(E.B)		70,610	146,669	171,555	141,189	120,307	135,573	168,140	263,321	197,764	373,846	247,451	428,079	2,464,504														
			←(W.B)		68,110	106,466	160,254	129,801	111,460	128,789	160,084	272,571	209,508	426,707	282,440	450,176	2,506,368	8.28		4,970.872											
																		km		8.21											

### 6.2.11 (2) Transport Plan of Line 2 (Case 3 & 4)

Case 3 Line 2 PNR:Ground—Line1&Line3 Connect

Line 2	Section	km	Rec~Leg	Leg~Pur	Pur~Ara	Ara~J.R	J.R~Gil	Gil~Bos	Bos~Cub	Cub~Ano	Ano~Kat	Kat~San	San~*	*~#	Total
	Carried		0.95	1.38	1.5	1.07	0.91	1.07	1.33	1.25	0.96	2.10	1.39	2.58	16.49
	→(E.B)		58203	85011	94401	119180	119938	118335	118049	212063	206573	177393	177393	164731	
	←(W.B)		58452	63860	94780	108153	109243	109459	109459	221563	222728	206757	206757	174053	
	Peak hour		5820	8501	9440	11918	11994	11834	11805	21206	20657	17739	17739	16473	
	*10%		5845	6386	9478	10815	10924	10946	10946	22156	22273	20676	20676	17405	Train-km
	No.of Train	No./1way	10	10	10	10	10	10	10	18	18	18	18	18	462.3
	Trans.Capacity	(p./h)	10300	10300	10300	10300	10300	10300	10300	18540	18540	18540	18540	18540	
	1030	%(→)	56.5	82.5	91.7	115.7	116.4	114.9	114.6	114.4	111.4	95.7	95.7	88.9	
	(pes./train)	%(←)	56.7	62.0	92.0	105.0	106.1	106.3	106.3	119.5	120.1	111.5	111.5	93.9	
	Pers.-km	→(E.B)	55,293	117,315	141,602	127,523	109,144	126,618	157,005	265,079	198,310	372,525	246,576	425,006	2,341,996
	←(W.B)		55,529	88,127	142,170	115,724	99,411	117,121	145,580	276,954	213,819	434,190	287,392	449,057	2,425,074
									8.21					8.28	4,767,070

km 8.21

Case 4 Line 2

PNR:Underground—Line1&Line3 Connect

Line 2	Section	km	Rec~Leg	Leg~Pur	Pur~Ara	Ara~J.R	J.R~Gil	Gil~Bos	Bos~Cub	Cub~Ano	Ano~Kat	Kat~San	San~*	*~#	Total
	Carried		0.95	1.38	1.5	1.07	0.91	1.07	1.33	1.25	0.96	2.10	1.39	2.58	16.49
	→(E.B)		75075	106910	114959	131775	131492	125865	125582	215727	210222	180807	180807	168617	
	←(W.B)		70098	75550	105226	118504	119544	117026	117026	225080	226256	208507	208507	175785	
	Peak hour		7508	10691	11496	13178	13149	12587	12558	21573	21022	18081	18081	16862	
	*10%		7010	7555	10523	11850	11954	11703	11703	22508	22626	20851	20851	17579	Train-km
	No.of Train	No./1way	11	11	11	11	11	11	11	18	18	18	18	18	478.7
	Trans.Capacity	(p./h)	11330	11330	11330	11330	11330	11330	11330	18540	18540	18540	18540	18540	
	1030	%(→)	66.3	94.4	101.5	116.3	116.1	111.1	110.8	116.4	113.4	97.5	97.5	90.9	
	(pes./train)	%(←)	61.9	66.7	92.9	104.6	105.5	103.3	103.3	121.4	122.0	112.5	112.5	94.8	
	Pers.-km	→(E.B)	71,321	147,536	172,439	140,999	119,658	134,676	167,024	269,659	201,813	379,895	251,322	435,032	2,491,172
	←(W.B)		66,593	104,259	157,839	126,799	108,785	125,218	155,645	281,350	217,206	437,865	289,825	453,525	2,524,908
									8.21					8.28	5,016,081

km

# 6.2.12 (1) Transport Plan of Line 4 (Case 1)

Case 1 Line 4 PNR:Ground---Not connect

Line 4	Old~UST	UST~Ant	Ant~Wei	Wei~Ban	Ban~Ara	Ara~Roos	Roos~Tir	Tir~Boh	Boh~Que	Que~Agh	Agh~Q.Cit	Q.Cit~Ph	Ph~Stat	Stat~Tan	Tan~Zur
Section	0.95	0.67	1.06	0.93	0.8	0.76	0.93	0.78	0.66	0.45	1.3	0.65	1.46	1.12	0.91
Carried	111659	124757	154043	160471	179856	184150	192274	191670	188307	247342	265055	256597	247669	218742	215595
(pes./day)	137423	153599	195922	197553	219786	228444	228515	228515	223790	263405	269598	262542	260677	226482	230248
Peak hour	11,166	12,476	15,404	16,047	17,986	18,415	19,227	19,167	18,831	24,734	26,506	25,660	24,767	21,874	21,560
*10%	13,742	15,360	19,592	19,755	21,979	22,844	22,852	22,852	22,379	26,341	26,960	26,254	26,068	22,648	23,025
No.of Train	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Trans.Cap.	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920
1146	48.7	54.4	67.2	70.0	78.5	80.3	83.9	83.6	82.2	107.9	115.6	112.0	108.1	95.4	94.1
(pes./train)	60.0	67.0	85.5	86.2	95.9	99.7	99.7	99.7	97.6	114.9	117.6	114.5	113.7	98.8	100.5
Pers.-km	106,076	83,587	163,286	149,238	143,885	139,954	178,815	149,503	124,283	111,304	344,572	166,788	361,597	244,991	196,191
←(W.B)	130,552	102,911	207,677	183,724	175,929	173,617	212,519	178,242	147,701	118,532	350,477	170,652	380,588	253,660	209,526

Zur~Don	Don~Bat	Bat A~B	B~Dona	Dona~Reg	Reg~Bri	Bri~Qui	Total
1.09	0.83	1.39	0.84	1.28	1.77	2.08	22.71
172398	173093	138696	87100	78563	78563	42890	
178429	182445	149562	89467	80894	63662	36255	
17,240	17,309	13,870	8,710	7,856	7,856	4,289	
17,843	18,245	14,956	8,947	8,089	6,366	3,626	Train-km
20	20	15	15	15	15	15	834.8
22,920	22,920	17,190	17,190	17,190	17,190	17,190	
75.2	75.5	80.7	50.7	45.7	45.7	25.0	
77.8	79.6	87.0	52.0	47.1	37.0	21.1	
187,914	143,667	192,787	73,164	100,561	139,057	89,211	3,590,429
194,488	151,429	207,891	75,152	103,544	112,682	75,410	3,916,806
km	15.35					7.36	7,507,235
						km	



## 6.2.12 (2) Transport Plan of Line 4 (Case 2)

Case 2 Line 4 PNR: Underground—Not connect

Line 4	Old~UST	UST~Ant	Ant~Wel	Wel~Ban	Ban~Ara	Ara~Roos	Roos~Tim	Tim~Boh	Boh~Que	Que~Agh	Agh~Q.Cit	Q.Cit~Phi	Phi~Stat	Stat~Tan	Tan~Zur
Section	0.95	0.87	1.06	0.93	0.8	0.76	0.93	0.78	0.66	0.45	1.3	0.65	1.46	1.12	0.91
Carried	132831	144480	149900	156278	174923	179222	187342	186738	183523	242559	260794	252851	244234	215342	212195
(pes./day)	167987	181098	193203	188253	210499	219173	219681	219681	215014	254698	261021	254418	252610	218887	222705
Peak hour	13283	14448	14990	15628	17492	17922	18734	18674	18352	24256	26079	25285	24423	21534	21220
*10%	16799	18110	19320	18825	21050	21917	21968	21968	21501	25470	26102	25442	25261	21889	22271
No. of Train	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Trans. Capa.	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920	22,920
1146	58.0	63.0	65.4	68.2	76.3	78.2	81.7	81.5	80.1	105.8	113.8	110.3	106.6	94.0	92.6
(pes./train)	73.3	79.0	84.3	82.1	91.8	95.6	95.8	95.8	93.8	111.1	113.9	111.0	110.2	95.5	97.2
Pers.-km	126,189	96,802	158,894	145,339	139,938	138,209	174,228	145,656	121,125	109,152	339,032	164,353	356,582	241,183	193,097
	159,588	121,336	204,795	175,075	168,399	166,571	204,303	171,351	141,909	114,614	339,327	165,372	368,811	245,153	202,662

Zur~Don	Don~Bat	Bat A~B	B~Dona	Dona~Reg	Reg~Bri	Bri~Qui	Total
1.09	0.83	1.39	0.84	1.28	1.77	2.08	22.71
169147	169837	136377	86714	78193	78193	42464	
170880	174911	142032	81927	73356	63521	36161	
16,915	16,984	13,638	8,671	7,819	7,819	4,246	
17,088	17,491	14,203	8,193	7,336	6,352	3,616	Train-km
20	20	15	15	15	15	15	834.8
22,920	22,920	17,190	17,190	17,190	17,190	17,190	
73.8	74.1	79.3	50.4	45.5	45.5	24.7	
74.6	76.3	82.6	47.7	42.7	37.0	21.0	
184,370	140,965	189,584	72,840	100,087	138,402	88,325	3,562,331
186,259	145,176	197,424	68,819	93,896	112,432	75,215	3,828,488
km	15.35		km		km	7.36	7,390,819

### 6.2.12 (3) Transport Plan of Line 4 (Case 3)

Case 3 Line 4 PNR:Ground-Line1&Line3 Connect

Line 4	Old~UST	UST~Ant	Ant~Wel	Wel~Ban	Ban~Ara	Ara~Roos	Roos~Tim	Tim~Boh	Boh~Que	Que~Agh	Agh~Q.Cit	Q.Cit~Ph	Ph~Stat	Stat~Tan	Tan~Zur
Section	km	0.95	0.67	1.06	0.93	0.8	0.76	0.93	0.78	0.66	0.45	1.3	0.85	1.46	0.91
Carried	→(E.B)	114529	127589	156881	163588	182825	186625	194667	194358	191032	244922	262658	254337	245450	216463
(pes./day)	←(W.B)	120690	136150	176909	178531	200762	209061	209600	209600	204906	263803	282196	275885	274091	239816
Peak hour	→(E.B)	11453	12759	15688	16359	18283	18663	19467	19436	19103	24492	26266	25434	24545	21646
*10%	←(W.B)	12069	13615	17691	17853	20076	20906	20960	20960	20491	26380	28220	27589	27409	23982
No. of Train	No./1way	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Trans.Cap.	(p/h)	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212
1146	%(-)	45.4	50.6	62.2	64.9	72.5	74.0	77.2	77.1	75.8	97.1	104.2	100.9	97.4	85.9
(pes./train)	%(-)	47.9	54.0	70.2	70.8	79.6	82.9	83.1	83.1	81.3	104.6	111.9	109.4	108.7	95.1
Pers.-km	→(E.B)	108,803	85,485	168,294	152,137	146,280	141,835	181,040	151,599	126,081	110,215	341,455	165,319	358,357	242,439
	←(W.B)	114,656	91,221	187,524	166,034	160,610	158,886	194,928	163,488	135,238	118,711	366,855	179,325	400,173	268,594
															219,854

Zur~Don	Don~Bat	Bat A~B	B~Dona	Dona~Reg	Reg~Bri	Bri~Qui	Total
1.09	0.83	1.39	0.84	1.28	1.77	2.08	22.71
169936	170619	136271	82715	74161	74161	38035	
189704	193711	160994	94557	86019	69142	39067	
16,994	17,062	13,627	8,272	7,416	7,416	3,804	
18,970	19,371	16,099	9,456	8,602	6,914	3,907	Train-km
22	22	15	15	15	15	15	896.2
25,212	25,212	17,190	17,190	17,190	17,190	17,190	
67.4	67.7	79.3	48.1	43.1	43.1	22.1	
75.2	76.8	93.7	55.0	50.0	40.2	22.7	
185,230	141,614	189,417	69,481	94,926	131,265	79,113	3,562,277
206,777	160,780	223,782	79,428	110,104	122,381	81,259	3,910,608
km	15.35				km	7.36	7,472,885

# 6.2.12 (4) Transport Plan of Line 4 (Case 4)

Case 4 Line 4

PNR: Underground—Line 1&Line3 Connect

Line 4	Old~UST	UST~Ant	Ant~Wel	Wel~Ban	Ban~Ara	Ara~Roos	Roos~Tim	Tim~Boh	Boh~Que	Que~Agh	Agh~Q.Cit	Q.Cit~Q.City	Q.City~Ph	Ph~Stat	Stat~Tan	Tan~Zur
Section	km	0.95	0.67	1.06	0.93	0.8	0.76	0.93	0.78	0.66	0.45	1.3	0.65	1.46	1.12	0.91
Carried	→(E.B)	136135	147706	153031	159705	178548	182356	190080	186896	240441	258684	258684	242281	213333	209957	
(pes./day)	←(W.B)	149868	162421	174175	169253	191519	199858	200392	195698	254072	273037	267164	265460	231638	233383	
Peak hour	→(E.B)	13614	14771	15303	15971	17855	18236	19040	18690	24044	25868	25085	24228	21333	20996	
*10%	←(W.B)	14987	16242	17418	16925	19152	19986	20039	19570	25407	27304	26716	26546	23164	23338	
No. of Train	No./1way	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Trans.Cap.	(p./h)	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212	25,212
1146	%(→)	54.0	58.6	60.7	63.3	70.8	72.3	75.5	74.1	95.4	102.6	99.5	96.1	84.6	83.3	
(pes./train)	%(←)	59.4	64.4	69.1	67.1	76.0	79.3	79.5	77.6	100.8	108.3	106.0	105.3	91.9	92.6	
Pers.-km	→(E.B)	129,328	98,963	162,213	148,526	142,838	138,591	177,068	123,351	108,198	336,289	163,049	353,730	238,333	191,061	
	←(W.B)	142,375	108,822	184,626	157,405	153,215	151,892	186,365	129,161	114,332	354,948	173,657	387,572	259,435	212,379	

Zur~Don	Don~Bat	Bat A~B	B~Dona	Dona~Reg	Reg~Bri	Bri~Qui	Total
1.09	0.83	1.39	0.84	1.28	1.77	2.08	22.71
166935	167813	134196	82210	73688	73688	37564	
181494	185508	152808	86429	77903	68418	38396	
16,694	16,761	13,420	8,221	7,369	7,369	3,756	
18,149	18,551	15,281	8,643	7,790	6,842	3,840	Train-km
22	22	15	15	15	15	15	896.2
25,212	25,212	17,190	17,190	17,190	17,190	17,190	
66.2	66.5	78.1	47.8	42.9	42.9	21.9	
72.0	73.6	88.9	50.3	45.3	39.8	22.3	
181,959	139,119	186,532	69,056	94,321	130,428	78,133	3,539,950
197,828	153,972	212,403	72,600	99,716	121,100	79,864	3,809,970
km	15.35					km	
						7.36	7,349,921

### 6.2.13 (1) Transport Plan of Line 6 (Case 1 & 2)

#### Case 1 Line 6

PNR:Ground---Not connect

Line 6	Section	km	Niog~Tal	Tal~Zap	Zap~L.Pin	L.Pin~Pina	Pina~Marjanu	D.Sa	Sant~N.A.	Aqui~As	Asia~MIA	MIA~Redde	Redde~Bacl	Total
Carried	→(N.B)	125242	125311	125311	119685	122768	127086	112500	132938	132938	117073	102602	86470	
(pes./day)	←(S.B)	95385	95728	95728	103835	122625	134232	116967	121393	121393	111042	106044	75192	
Peak hour	→(N.B)	12,524	12,531	12,531	11,969	12,277	12,709	11,250	13,294	13,294	11,707	10,260	8,647	
*10%	←(S.B)	9,539	9,573	9,573	10,384	12,263	13,423	11,697	12,139	12,139	11,104	10,604	7,519	Train-km
No.of Train	No./1way	12	12	12	12	12	12	12	12	12	12	12	12	280.6
Trans.Capa	(p./h)	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	
912	%(→)	114.4	114.5	109.4	109.4	112.2	116.1	102.8	121.5	121.5	107.0	93.8	79.0	
(pes./train)	%(←)	87.2	87.5	94.9	94.9	112.0	122.7	106.9	110.9	110.9	101.5	96.9	68.7	
Pers.-km	→(N.B)	83,787	130,574	130,574	173,663	165,860	123,782	155,363	215,758	215,758	91,200	166,215	69,176	1,375,377
	←(S.B)	63,813	99,749	99,749	150,665	165,666	130,742	161,531	197,021	197,021	86,502	171,791	60,154	1,287,633
														Pas.-km
														2,663,010

#### Case 2 Line 6

PNR:Underground---Not connect

Line 6	Section	km	Niog~Tal	Tal~Zap	Zap~L.Pin	L.Pin~Pina	Pina~Marjanu	D.Sa	Sant~N.A.	Aqui~As	Asia~MIA	MIA~Redde	Redde~Bacl	Total
Carried	→(N.B)	125,379	125,450	125,450	119,555	122,623	126,942	112,080	132,530	132,530	116,722	102,173	85,942	
(pes./day)	←(S.B)	95,403	95,753	95,753	103,416	122,408	134,055	116,784	121,209	121,209	110,856	105,858	74,118	
Peak hour	→(N.B)	12,538	12,545	12,545	11,956	12,262	12,694	11,208	13,253	13,253	11,672	10,217	8,594	
*10%	←(S.B)	9,540	9,575	9,575	10,342	12,241	13,406	11,678	12,121	12,121	11,086	10,586	7,412	Train-km
No.of Train	No./1way	12	12	12	12	12	12	12	12	12	12	12	12	280.6
Trans.Capa	(p./h)	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	
912	%(→)	114.6	114.6	109.2	109.2	112.0	116.0	102.4	121.1	121.1	106.7	93.4	78.5	
(pes./train)	%(←)	87.2	87.5	94.5	94.5	111.8	122.5	106.7	110.8	110.8	101.3	96.7	67.7	
Pers.-km	→(N.B)	83,879	130,719	130,719	173,474	165,664	123,642	154,782	215,096	215,096	90,926	165,520	68,754	1,372,456
	←(S.B)	63,825	99,775	99,775	150,057	165,373	130,570	161,279	196,722	196,722	86,357	171,490	59,294	1,284,741
														2,657,197

### 6.2.13 (2) Transport Plan of Line 6 (Case 3 & 4)

#### Case 3 Line 6

Line 6		PNR:Ground--Not connect										4pers./m <sup>2</sup> : 912pers./Train		Total
Section	km	Niog~Tal	Tal~Zap	Zap~L.Pin	Pina~Maianu	D.Sa	Sant~N.A.	Aqui~As	Asia~MIA	MIA~Rede	Rede~Bac			11.69
Carried	→(N.B)	125,641	125,708	120,447	122,832	127,142	112,452	132,886	117,048	103,236	85,576			
(pes./day)	←(S.B)	96,118	96,414	104,049	123,003	134,591	117,410	121,917	111,660	106,662	76,028			
Peak hour	→(N.B)	12,564	12,571	12,045	12,283	12,714	11,245	13,289	11,705	10,324	8,558			
*10%	←(S.B)	9,612	9,641	10,405	12,300	13,459	11,741	12,192	11,166	10,666	7,603	Train-km		
No.of Train	No./1way	12	12	12	12	12	12	12	12	12	12	280.6		
Trans.Cap	(p./h)	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944			
912	%(→)	114.8	114.9	110.1	112.2	116.2	102.8	121.4	107.0	94.3	78.2			
(pes./train)	%(←)	87.8	88.1	95.1	112.4	123.0	107.3	111.4	102.0	97.5	69.5			
Pers.-km	→(N.B)	84,054	130,988	174,769	165,946	123,836	155,296	215,674	91,180	167,242	68,461	1,377,446		
	←(S.B)	64,303	100,463	150,975	166,177	131,092	162,143	197,871	86,983	172,792	60,822	1,293,623		
														2,671,069

#### Case 4 Line 6

Line 6		PNR:Underground--Line1&Line3 Connect										4pers./m <sup>2</sup> : 912pers./Train		Total
Section	km	Niog~Tal	Tal~Zap	Zap~L.Pin	Pina~Maianu	D.Sa	Sant~N.A.	Aqui~As	Asia~MIA	MIA~Rede	Rede~Bac			11.69
Carried	→(N.B)	125,608	125,675	120,442	122,830	127,142	112,045	132,443	116,829	102,767	85,038			
(pes./day)	←(S.B)	96,188	96,477	103,948	122,801	134,426	117,238	121,748	111,420	106,422	74,776			
Peak hour	→(N.B)	12,561	12,568	12,044	12,283	12,714	11,205	13,244	11,683	10,277	8,504			
*10%	←(S.B)	9,619	9,648	10,395	12,280	13,443	11,724	12,175	11,142	10,642	7,478	Train-km		
No.of Train	No./1way	12	12	12	12	12	12	12	12	12	12	280.6		
Trans.Cap	(p./h)	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944	10,944			
912	%(→)	114.8	114.8	110.1	112.2	116.2	102.4	121.0	106.8	93.9	77.7			
(pes./train)	%(←)	87.9	88.2	95.0	112.2	122.8	107.1	111.2	101.8	97.2	68.3			
Pers.-km	→(N.B)	84,032	130,953	174,761	165,943	123,836	154,734	214,955	91,010	166,483	68,030	1,374,738		
	←(S.B)	64,350	100,529	150,929	165,904	130,931	161,906	197,597	86,796	172,404	59,821	1,291,066		
														2,665,804

# 6.2.14 (1) Transport Plan of North Rail/MCX (Case 1)

Case 1		North Rail/MCX					PNR:Ground---Not connect					10cars*1740parsons/train					150% Commuter					
North Rail/MCX	Mari~Mey	Mey~3	3~4	4~Caloo	Caloo~6	6~7	7~8	8~9 Blum	Blum~La	La~Espa	S.Me	Mes~Par	Par~Pac	Pac~Vit								
Section	km		450	130	360	050	050	170	110	052	196	149	142	167								
Carried	111511	147088	167113	180445	193593	206438	208416	207609	213444	216514	255600	260264	262755	259454								
(pes./day)	85864	120555	126005	139127	133770	144146	143345	169267	198416	198585	237533	244869	260981	266778								
Peak hour	11,151	14,709	16,711	18,045	19,359	20,644	20,842	20,761	21,344	21,651	25,560	26,026	26,276	25,945								
*10%	8,586	12,056	12,601	13,913	13,377	14,415	14,335	16,927	19,842	19,859	23,753	24,487	26,098	26,678								
No.of Train	9	9	9	9	16	16	16	16	16	16	16	16	16	16								
Trans.Cap.	15,660	15,660	15,660	15,660	27,840	27,840	27,840	27,840	27,840	27,840	27,840	27,840	27,840	27,840								
1740	71.2	93.9	106.7	115.2	69.5	74.2	74.9	74.6	76.7	77.8	91.8	93.5	94.4	93.2								
(pes./train)	54.8	77.0	80.5	88.8	48.0	51.8	51.5	60.8	71.3	71.3	85.3	88.0	93.7	95.8								
Pers.-km	345,684	514,808	752,009	234,579	696,935	103,219	104,208	352,935	234,788	112,587	500,976	387,793	373,112	433,288								
	266,178	421,943	567,023	180,865	481,572	72,073	71,673	287,754	218,258	103,264	465,565	364,855	370,593	445,519								
			km	1240																		

# 6.2.14 (2) Transport Plan of North Rail/MCX (Case 2)

Case 2		North Rail/MCX		PNR: Underground---Not connect										10 cars*1740 persons/train			
Nrth Rail/MCX	Mari~Mey	3~4	4~Caloo	Caloo~6	6~7	7~8Tayu	8~9	9~D.Jose	D.Jose~11	11~Paco	Paco~13	13~Vito	Vit~Buen				
Section	km	3.10	3.50	3.50	4.50	1.30	3.60	0.50	0.50	0.50	0.2	1.97	1.27	1.37	1.17	1.10	1.06
Carried	→(S.B)	156770	193930	216596	237465	268972	293553	296599	296755	296755	296755	315805	308882	315384	314890	300307	
(pes./day)	←(N.B)	104427	151209	171971	195446	205330	219958	219157	250501	250501	250501	281812	291356	318221	319544	311282	
Peak hour	→(S.B)	15,677	19,393	21,660	23,747	26,897	29,355	29,660	29,676	29,676	29,676	31,581	30,888	31,538	31,489	30,031	
*10%	←(N.B)	10,443	15,121	17,197	19,545	20,533	21,996	21,916	25,050	25,050	25,050	28,181	29,136	31,822	31,954	31,128	
No. of Train	No./1way	12	12	12	12	12	18	18	18	18	18	18	18	18	18	18	
Trans.Cap.	(p./h)	20,880	20,880	20,880	20,880	20,880	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	
1740	%(→)	75.1	92.9	103.7	113.7	85.9	93.7	94.7	94.7	94.7	94.7	100.8	98.6	100.7	100.5	95.9	
(pes./train)	%(←)	50.0	72.4	82.4	93.6	65.6	70.2	70.0	80.0	80.0	80.0	90.0	93.0	101.6	102.0	99.4	
Pers.-km	→(S.B)	485,987	678,755	974,682	308,705	968,299	146,777	148,300	59,351	584,807	401,072	423,168	368,999	346,379	318,325	329,959	
←(N.B)	323,724	529,232	773,870	254,080	739,188	109,979	109,979	109,579	50,100	493,487	357,901	399,158	372,319	351,498	329,959		
km 12.40																	

Buen~Pid	Plo~EDS	EDS~FTI	FTI~Bic	Bic~Sucat	Sucat~Ala	Ala~Mun	Mun~San	San P~Bil	Bil~Bin	Bin~S.Ro	S.Ro~Cat	Total
1.12	1.11	3.05	3.60	4.01	3.68	3.31	3.56	4.20	4.04	3.61	3.61	60.43
314136	320015	330787	329138	331619	283172	286247	194947	112634	83219	60700	60700	
332223	333454	368871	376387	367068	349614	295529	255029	172855	146664	98910	98910	
31,414	32,002	33,079	32,914	33,162	28,317	28,625	19,495	11,263	8,322	6,070	6,070	
33,222	33,345	36,887	37,639	36,707	34,961	29,553	25,503	17,286	14,666	9,891	9,891	Train-km
18	18	18	18	18	18	18	18	9	9	9	9	1,813.4
31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	15,660	15,660	15,660	15,660	
100.3	102.2	105.6	105.1	105.9	90.4	91.4	62.2	71.9	53.1	38.8	38.8	
106.1	106.5	117.8	120.2	117.2	111.6	94.4	81.4	110.4	93.7	63.2	63.2	
351,832	355,217	1,008,900	1,184,897	1,329,792	1,042,073	947,478	694,011	473,063	336,205	219,127	219,127	14,156,001
372,080	370,134	1,125,057	1,354,993	1,471,943	1,286,580	978,201	907,903	725,991	592,523	357,065	357,065	14,736,551
km 36.18												11.85
												28,892,551.72

### 6.2.14 (3) Transport Plan of North Rail/MCX (Case 3)

Case 3	North Rail/MCX	PNR:Ground—Line1&Line3	Connect	10cars*1740parsons/train

[illegible]

### Case 3

Vit ~ Buen	Buen ~ Pid	Pio ~ EDS	EDS ~ FTI	FTI ~ Bic	Bic ~ Suca	Suca ~ Ala	Ala ~ Mun	Mun ~ San	San P ~ Bir	Bir ~ S.Ro	S.Ro ~ Cab	Total	North R.	MCX
1.06	1.12	1.11	3.05	3.60	4.01	3.68	3.31	3.56	4.20	4.04	3.61	63.21		
240191	279190	283932	308032	308007	312609	270597	274622	195432	111580	81687	60309			
253510	294044	296294	337793	346647	340913	331723	279839	246827	163796	137619	93029			
24,019	27,919	28,393	30,803	30,801	31,261	27,060	27,462	19,543	11,158	8,169	6,031			
25,351	29,404	29,629	33,779	34,655	34,091	33,172	27,984	24,683	16,380	13,762	9,303	Train-km		
17	17	17	17	17	17	17	17	17	8	8	8	1,737.4	223	1,514
29,580	29,580	29,580	29,580	29,580	29,580	29,580	29,580	29,580	13,920	13,920	13,920			
81.2	94.4	96.0	104.1	104.1	105.7	91.5	92.8	66.1	80.2	58.7	43.3			
85.7	99.4	100.2	114.2	117.2	115.3	112.1	94.6	83.4	117.7	98.9	66.8			
254,602	312,693	315,165	939,498	1,108,825	1,253,562	995,797	908,999	695,738	468,636	330,015	217,715	12,842,361	1,847,819	
268,721	329,329	328,886	1,030,269	1,247,929	1,367,061	1,220,741	926,267	878,704	687,943	555,981	335,835	13,392,285	1,410,585	
							km	38.96		km	11.85	26,234,646	3,258,404	22,976,242



# 6.2.14 (4) Transport Plan of North Rail/MCX (Case 4)

Case 4		North Rail/MCX					PNR:Underground--Line1&Line3 Connect					Underground				
Nrth Rail/MCX		Mari~Mey	Mey~3	3~4	4~Caloo	Caloo~6	6~7	7~8Tayu	8~9	9~D.José	D.José~1	11~Paco	Paco~13	13~Vito	Vit~Buen	
Section	km	3.10	3.50	4.50	1.30	3.60	0.50	0.50	0.2	1.97	1.27	1.37	1.17	1.10	1.06	
Carried	→(S.B)	156221	195105	219320	240988	269033	290751	293725	293934	292125	309160	302729	309074	308687	294531	
(pes./day)	←(NB)	104743	149791	169197	191369	198752	213032	212231	242584	248526	271891	282927	310247	311574	303438	
Peak hour	→(S.B)	15,622	19,511	21,932	24,099	26,903	29,075	29,373	29,393	29,213	30,916	30,273	30,907	30,869	29,453	
*10%	←(NB)	10,474	14,979	16,920	19,137	19,875	21,303	21,223	24,258	24,853	27,189	28,293	31,025	31,157	30,344	
No.of Train	No./1way	12	12	12	12	18	18	18	18	18	18	18	18	18	18	
Trans.Cap.	(p./h)	20,880	20,880	20,880	20,880	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	
1740	%(→)	74.8	93.4	105.0	115.4	85.9	92.8	93.8	93.8	93.3	98.7	96.7	98.7	98.6	94.0	
(pes./train)	%(←)	50.2	71.7	81.0	91.7	63.5	68.0	67.8	77.5	79.4	86.8	90.3	99.1	99.5	96.9	
Pers.-km	→(S.B)	484,285	682,868	986,940	313,284	968,519	145,376	146,863	58,787	575,486	392,633	414,739	361,617	339,556	312,203	
	←(NB)	324,703	524,269	761,387	248,780	715,507	106,516	106,116	48,517	489,596	345,302	387,610	362,989	342,731	321,644	
				km	12.40											

Case 4

Case 4		Buen~Pid	Pio~EDS	EDS~FTI	FTI~Bic	Bic~Sucas	Sucas~Ala	Ala~Mun	Mun~San	San P~Bir	Bir~Bin	Bin~S.Ro	S.Ro~Cab	Total	North R.	MCX
1.12		1.11	3.05	3.60	4.01	3.68	3.31	3.56	4.20	4.04	3.61	60270	6043			
310526	316494	333928	332252	334827	284799	286592	196211	112690	83017	60270	99239	99239	99239			
328788	330139	371082	378702	369379	351727	295859	255437	172976	146711	99239	99239	99239	99239			
31,053	31,649	33,393	33,225	33,483	28,480	28,659	19,621	11,269	8,302	6,027	6,027	6,027	6,027			
32,879	33,014	37,108	37,870	36,938	35,173	29,586	25,544	17,298	14,671	9,924	9,924	9,924	9,924			
18	18	18	18	18	18	18	18	18	18	18	18	18	18	1,813.4	298	1,515.78
31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320			
99.1	101.1	106.6	106.1	106.9	90.9	91.5	62.6	72.0	53.0	38.5	38.5	38.5	38.5			
105.0	105.4	118.5	120.9	117.9	112.3	94.5	81.6	110.5	93.7	63.4	63.4	63.4	63.4			
347,789	351,308	1,018,480	1,196,107	1,342,656	1,048,060	948,620	698,511	473,298	335,389	217,575	217,575	217,575	217,575	14,160,948	2,467,377	
368,243	366,454	1,131,800	1,363,327	1,481,210	1,294,355	979,293	909,356	726,499	592,712	358,253	358,253	358,253	358,253	14,657,169	1,859,138	
														28,818,116	4,326,515	24,491,601

# 6.2.15 (1) Calculation of Train kilometer, etc. Line 1 (Case 1 & 2)

Case 1

Line 1		Bac~ED	ED~Lib	Lib.~G.Pu	G.Pu~Vit	Vit~Qui	Qui~Ped	Ped~U.N.	U.N.~Cen	Cen~Car	Car~D.Jo	D.Jo~Ban	Ban~Tay	Tay~Bru
Section	km	0.59	1.01	0.73	1.06	0.83	0.79	0.75	1.21	0.73	0.88	0.65	0.62	0.67
Carried	→ (R)	113409	137032	186333	198460	213014	232314	232229	231231	253384	244353	178321	173271	155619
(pes./day)	← (L)	94324	116486	171664	183220	201167	198045	220075	217033	262996	247332	215286	188071	173059
No. of Train	Train/day	230	230	230	230	230	230	230	230	230	230	230	230	230
乗車率 %	→ (R)	54	65	89	95	102	111	111	110	121	116	85	83	74
Train-km	(km)	271	465	336	488	382	363	345	557	336	313	299	285	308
Passen.-km	(km)	122,562	256,053	261,338	404,581	343,770	339,984	339,228	542,399	376,957	334,346	255,845	224,032	220,214

Bru~A.San	San~R.P.R	Pa~5th	Ath.A.~Mon	Total
0.93	0.66	0.95	1.09	13.95
133553	132699	125495	125495	
137876	134540	119657	99866	
230	230	230	230	
64	63	60	60	
428	304	437	501	6,417
252,429	176,378	232,894	245,643	4,928,654

Case 2

Line 1		Bac~ED	ED~Lib	Lib.~G.Pu	G.Pu~Vit	Vit~Qui	Qui~Ped	Ped~U.N.	U.N.~Cen	Cen~Car	Car~D.Jo	D.Jo~Ban	Ban~Tay	Tay~Bru
Section	km	0.59	1.01	0.73	1.06	0.83	0.79	0.75	1.21	0.73	0.68	0.65	0.62	0.67
Carried	→ (R)	110259	132228	178268	187866	201728	221571	221492	218061	232483	223848	142080	138043	120675
(pes./day)	← (L)	88470	108094	159602	167664	184270	181181	198471	193852	224935	211533	172017	147285	134076
No. of Train	Train/day	210	210	210	210	210	210	210	210	210	210	210	210	210
乗車率 %	→ (R)	58	69	93	98	105	116	116	114	121	117	74	72	63
Train-km	(km)	248	424	307	445	349	332	315	508	307	286	273	260	281
Passen.-km	(km)	117,250	242,725	246,645	376,862	320,378	318,174	314,972	498,415	333,915	296,059	204,163	176,903	170,683

Bru~A.San	San~R.P.R	Pa~5th	Ath.A.~Mon	Total
0.93	0.66	0.95	1.09	13.95
102149	102364	95014	95014	
109671	106386	98283	78697	
210	210	210	210	
53	53	50	50	
391	277	399	458	5,859
196,993	137,775	183,632	189,345	4,324,890

# 6.2.15 (2) Calculation of Train kilometer, etc. Line 3 (Case 1 & 2)

Case 1

Line 3		Mon.~Bal	Bal.~Roo	Roo.~Nor	Nor.~Qu	Que.~Kar	Kar.~Kam	Kam.~Cul	Cuba~Sa	Sant~Ord	Orti~Sha	Shaw~Bol	Boni~Gua	Quad~Bu	Buen~Ay
Section	km	1.80	1.75	1.65	1.26	0.96	1.93	1.42	2.33	0.80	131127	139799	126772	112613	0.90
Carried	→ (R)	53101	67347	71283	79163	115407	118672	156873	156849	167157	131127	139799	126772	112613	0.90
(pes./day)	← (L)	43368	49033	67994	71935	116071	131103	175493	160111	168044	187199	181041	177470	172366	0.90
No. of Train	Train/day	215	215	215	215	215	215	215	215	215	215	215	215	215	215
乗車率 %	→ (R)	35	45	47	52	77	87	116	106	111	124	124	118	114	114
Train-km	(km)	774	753	710	542	413	830	611	1002	344	421	361	817	387	387
Passen.-km	(km)	173,644	203,665	229,807	190,383	222,219	482,066	471,960	738,517	268,161	311,959	269,506	578,060	256,481	256,481

Aya~Maga	Maga~Ta	Total
1.20	1.90	21.62
108143	85405	
162331	105001	
215	215	
108	70	
516	817	9,297
324,569	361,771	5,082,768

Case 2

Line 3		Mon.~Bal	Bal.~Roo	Roo.~Nor	Nor.~Qu	Que.~Kar	Kar.~Kam	Kam.~Cul	Cuba~Sa	Sant~Ord	Orti~Sha	Shaw~Bol	Boni~Gua	Quad~Bu	Buen~Ay
Section	km	1.80	1.75	1.65	1.26	0.96	1.93	1.42	2.33	0.80	144996	144996	136736	119778	102791
Carried	→ (R)	62777	125894	129830	128705	134964	136593	163571	163551	187653	144996	144996	136736	119778	102791
(pes./day)	← (L)	48738	53271	72254	76569	122358	136996	183767	168379	176446	201899	201899	202395	197752	192653
No. of Train	Train/day	240	240	240	240	240	240	240	240	240	240	240	240	240	240
乗車率 %	→ (R)	37	75	75	76	80	81	109	100	105	120	120	120	117	114
Train-km	(km)	864	840	792	605	461	926	682	1,118	384	470	470	403	912	432
Passen.-km	(km)	200,727	313,539	326,839	258,645	247,029	528,027	493,220	773,397	291,279	339,957	339,957	284,870	603,307	265,900

Aya~Maga	Maga~Ta	Total
1.20	1.90	21.62
97048	84237	
138778	114793	
240	240	
82	68	
576	912	10,378
282,991	378,157	5,587,883

### 6.2.15 (3) Calculation of Train kilometer, etc. Line 1 and Line 3 (Case 3 & 4)

Case 3

PNR:Ground-Line1&Line3 Connect 4pers/m<sup>2</sup>:912pers/Train

Line 1 & Line 3		Bac~ED	ED~Lib	Lib~G.Pu	G.Pu~Vlt	Vlt~Qui	Qui~Ped	Ped~UN	UN~J.N	J.N~Cent	Cent~Shaw	Shaw~D.Jo	D.Jo~Ban	Ban~Tay	Tay~Bru	Bru~A.San	A.San~R.P
Section	km	0.59	1.01	1.06	1.06	0.83	0.79	0.75	0.75	1.21	0.73	0.68	0.65	0.62	0.67	0.93	0.86
Carried	→ (R)	115,343	147,436	206,482	226,875	243,804	253,762	258,624	275,221	286,324	285,455	224,521	225,634	216,734	176,932	168,452	
(pes./day)	← (L)	106,378	138,932	203,583	205,536	219,020	229,232	251,885	247,296	284,596	281,031	253,668	235,412	222,567	184,394	180,050	
No.of Train	Train/day	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264
乗車率 %	→ (R)	48	61	86	94	101	105	107	114	119	119	105	98	92	77	75	
Train-km	(km)	312	533	385	560	438	417	396	639	385	359	343	327	354	491	348	
Passen.-km	(km)	130,815	289,232	299,347	458,356	384,144	381,565	382,882	632,246	416,772	385,210	310,823	285,849	294,332	336,033	230,011	

Line 1

RPa	5th.A	Mon.	Bal.	Roo.	Nor.	Qui	Que.	Kar.	Kam.	Cul	Cuba	Sa	Sant.	Orti	Shaw	Bd	Boni	Guad	Bu	Buen	Ay	Aya	Mag	Maga	Ta	Total
0.95	1.09	1.98	1.75	1.65	1.26	0.96	0.96	1.93	1.42	2.33	0.80	0.80	0.98	0.84	1.90	0.90	1.20	1.90	0.90	1.20	1.90	0.90	1.20	1.90	35.75	
158,709	159,849	98,936	142,191	158,839	169,705	175,832	187,838	187,838	187,832	207,307	254,309	215,867	196,731	183,521	166,208	135,666	95,630									
166,885	158,390	107,504	85,342	97,613	117,823	154,678	170,123	201,722	187,399	197,845	237,880	215,271	206,516	201,241	183,345	118,532										
264	264	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	
69	66	50	66	73	78	81	87	93	96	117	110	99	95	93	84	55										
502	576	942	833	785	600	457	457	919	676	381	466	400	904	428	571	904									17,742	
309,314	346,881	408,751	398,183	423,146	362,285	317,290	690,865	552,911	919,665	361,723	444,672	346,082	741,070	330,704	382,813	406,908	12,960,879									
7,366		Train-km																							10,377	

Case 4

Line 1 & Line 3		Bac~ED	ED~Lib	Lib~G.Pu	G.Pu~Vit	Vit~Qui	Qui~Ped	Ped~U.N.	U.N.~Cent	Cent~Car	Car~D.Jo	D.Jo~Ban	Ban~Tay	Tay~Bru	Bru~A.San	A.San~R.P
Section	km	0.59	1.01	0.73	1.06	0.83	0.79	0.75	1.21	0.73	0.68	0.65	0.62	0.67	0.93	0.66
Carried	→ (R)	115,332	147,325	168,342	197,562	220,535	243,612	238,621	254,327	280,204	276,780	186,389	186,673	174,724	157,533	139,268
(pes./day)	← (L)	100,323	149,208	195,489	195,489	206,586	219,016	219,115	231,822	232,665	242,378	193,929	181,134	175,663	156,358	144,292
No.of Train	Train/day	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264
乗車率 %	→ (R)	48	61	70	82	92	101	99	106	116	115	81	78	73	65	60
Train-km	(km)	312	533	385	560	438	417	396	639	385	359	343	327	354	491	348
Passen.-km	(km)	127,236	299,498	265,597	416,634	354,510	365,476	343,302	588,240	374,394	353,027	247,207	228,040	234,759	291,919	187,150

Line 1

Line 1		Line 3		Line 5																								
R.Pa	5th.A	Mon.	Bal	Roo	Nor	~Nor	Que	Kam	~Cu	Cuba	~Sa	Sant	~Ori	Orti	~Sha	Shaw	~Bd	Boni	~Gu	Guad	~Bu	Buen	~Ay	Aya	~Mag	Maga	~Ta	Total
0.95	1.09	1.98	1.75	1.65	1.26	0.96	0.96	1.93	1.93	1.42	2.33	0.80	0.80	0.98	0.84	1.90	0.90	1.20	1.90	0.90	1.20	1.90	0.90	1.20	1.90	0.90	1.20	35.75
132,004	128,085	84,527	133,472	148,110	154,110	177,578	177,578	177,578	164,570	178,878	192,459	230,458	253,435	229,024	203,266	166,381	155,695	147,511	84,335									
133,281	126,421	86,313	96,595	113,233	115,347	136,839	164,570	164,570	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	
264	264	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	
55	53	40	61	68	71	82	82	89	106	117	106	94	80	76	70	40												
502	576	942	833	785	600	457	457	457	1,109	381	466	400	904	428	571	904												17,742
252,021	277,412	338,263	402,617	431,216	339,516	301,840	680,346	527,299	1,008,363	361,183	409,179	327,603	645,920	289,419	358,097	325,085	11,932,331											
7,366		Train-km																							10,377			

# 6.2.16 Calculation of Train kilometer, etc. Line 2 (Case 1~4)

Case 1

Line 2	Section	km	Rec~Leg	Leg~Pur	Pur~Ara	Ara~J.R.	J.R.~Gil	Gil~Bos	Bos~Cub	Cub~Ano	Ano~Kat	Kat~San	San~*	*~#	Total
Carried	→(E.B)		0.95	1.38	1.5	1.07	0.91	1.07	1.33	1.25	0.96	2.10	1.39	2.58	16.49
	←(W.B)		57636	84568	93796	119432	120718	119337	119050	206839	202016	174307	174307	161609	
(pes./day)			60214	65620	97061	111542	112784	113431	113431	214637	214793	201423	201423	172742	
No.of Train	Train/day		98	98	98	98	98	98	98	170	170	170	170	170	
乗車率 %	→ (E)		57	84	93	118	120	118	118	118	115	100	100	92	
Train-km	(km)		186.2	270.48	294	209.72	178.36	209.72	260.68	425	326.4	714	472.6	877.2	4,424
Passen.-km	(km)		111,958	207,259	286,286	247,142	212,487	249,062	309,200	526,595	400,137	789,033	522,265	862,626	4,724,048

Case 2

Line 2	Section	km	Rec~Leg	Leg~Pur	Pur~Ara	Ara~J.R.	J.R.~Gil	Gil~Bos	Bos~Cub	Cub~Ano	Ano~Kat	Kat~San	San~*	*~#	Total
Carried	→(E.B)		0.95	1.38	1.5	1.07	0.91	1.07	1.33	1.25	0.96	2.10	1.39	2.58	16.49
	←(W.B)		74326	106282	114370	131952	132206	126704	126421	210657	206004	178022	178022	165922	
(pes./day)			71695	77149	106836	121309	122484	120364	120364	218057	218238	203194	203194	174487	
No.of Train	Train/day		110	110	110	110	110	110	110	170	170	170	170	170	
乗車率 %	→ (E)		66	94	101	116	117	112	112	120	118	102	102	95	
Train-km	(km)		209	303.6	330	235.4	200.2	235.4	292.6	425	326.4	714	472.6	877.2	4,621
Passen.-km	(km)		138,720	253,135	331,809	270,989	231,788	264,363	328,224	535,893	407,272	800,554	529,890	878,255	4,970,872

Case 3

Line 2	Section	km	Rec~Leg	Leg~Pur	Pur~Ara	Ara~J.R.	J.R.~Gil	Gil~Bos	Bos~Cub	Cub~Ano	Ano~Kat	Kat~San	San~*	*~#	Total
Carried	→(E.B)		0.95	1.38	1.5	1.07	0.91	1.07	1.33	1.25	0.96	2.10	1.39	2.58	16.49
	←(W.B)		57766	84576	93780	118627	119397	117936	117650	210478	204982	175589	175589	162925	
(pes./day)			57439	62845	93105	106676	107880	108537	108537	221734	222905	206901	206901	173939	
No.of Train	Train/day		98	98	98	98	98	98	98	170	170	170	170	170	
乗車率 %	→ (E)		57	84	93	118	118	117	117	120	117	100	100	93	
Train-km	(km)		186.2	270.48	294	209.72	178.36	209.72	260.68	425	326.4	714	472.6	877.2	4,424
Passen.-km	(km)		109,445	203,441	280,328	241,074	206,822	242,326	300,829	540,265	410,772	803,229	531,661	869,109	4,739,300

Case 4

Line 2	Section	km	Rec~Leg	Leg~Pur	Pur~Ara	Ara~J.R.	J.R.~Gil	Gil~Bos	Bos~Cub	Cub~Ano	Ano~Kat	Kat~San	San~*	*~#	Total
Carried	→(E.B)		0.95	1.38	1.5	1.07	0.91	1.07	1.33	1.25	0.96	2.10	1.39	2.58	16.49
	←(W.B)		74492	106322	114391	131209	130943	123556	125073	214348	208844	179215	179215	167152	
(pes./day)			68357	73808	103346	116639	117793	115727	115727	225167	226351	208582	208582	175639	
No.of Train	Train/day		110	110	110	110	110	110	110	170	170	170	170	170	
乗車率 %	→ (E)		66	94	101	116	116	111	110	122	119	102	102	95	
Train-km	(km)		209	303.6	330	235.4	200.2	235.4	292.6	425	326.4	714	472.6	877.2	4,621
Passen.-km	(km)		135,707	248,579	326,606	265,197	226,350	257,959	320,264	549,394	417,787	814,374	539,038	884,401	4,985,655

# 6.2.17 (1) Calculation of Train kilometer, etc. Line 4 (Case 1~2)

Case 1

Line 4	Old~UST	UST~Ant	Ant~Wel	Wel~Ban	Ban~Ara	Ara~Roos	Roos~Tim	Tim~Boh	Boh~Que	Que~Agh	Agh~Q.Cit	Q.Cit~City	City~Phi	Phi~Stat	Stat~Tan	Tan~Zur
Section	km	0.95	0.67	1.06	0.93	0.8	0.76	0.93	0.78	0.66	0.45	1.3	0.65	1.46	1.12	0.91
Carried	→(E.B)	111659	124757	154043	160471	179856	184150	192274	191670	188307	247342	265055	256597	247669	218742	215595
(pes./day)	←(W.B)	137423	153599	195922	197553	219786	228444	228515	228515	223790	263405	269598	262542	260677	226482	230248
No.of Train	Train/day	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194
乗車率 %	→ (E)	50	56	69	72	81	83	86	86	85	111	119	115	111	98	97
Train-km	(km)	369	260	411	361	310	295	361	303	256	175	504	252	566	435	353
Passen.-km	(km)	236,628	186,499	370,963	332,962	319,714	313,571	391,334	327,744	271,994	229,836	695,049	337,440	742,185	498,651	405,717

Zur~Don	Don~Bat	Bat A~B	B~Dona	Dona~Reg	Reg~Bri	Bri~Qui	Total
1.09	0.83	1.39	0.84	1.28	1.77	2.08	22.71
172398	173093	138696	87100	78563	78563	42890	
178429	182445	149562	89467	80894	63662	30255	
194	194	100	100	100	100	100	
78	78	121	76	69	69	37	
423	322	278	168	256	354	416	7,428
382,401	295,097	400,679	148,316	204,105	251,738	164,622	7,507,235

Case 2

Line 4	Old~UST	UST~Ant	Ant~Wel	Wel~Ban	Ban~Ara	Ara~Roos	Roos~Tim	Tim~Boh	Boh~Que	Que~Agh	Agh~Q.Cit	Q.Cit~City	City~Phi	Phi~Stat	Stat~Tan	Tan~Zur
Section	km	0.95	0.67	1.06	0.93	0.8	0.76	0.93	0.78	0.66	0.45	1.3	0.65	1.46	1.12	0.91
Carried	→(E.B)	132831	144480	149900	156278	174923	179222	187342	186738	183523	242559	260794	252851	244234	215342	212195
(pes./day)	←(W.B)	167987	181098	193203	188253	210499	219173	219681	219681	215014	254698	261021	254418	252610	218887	222705
No.of Train	Train/day	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192
乗車率 %	→ (E)	60	66	68	71	79	81	85	85	83	110	119	115	111	98	96
Train-km	(km)	365	257	407	357	307	292	357	300	253	173	499	250	561	430	349
Passen.-km	(km)	285,777	218,137	363,689	320,414	308,338	302,780	378,531	317,007	263,034	223,766	678,360	329,725	725,392	486,336	395,759

Zur~Don	Don~Bat	Bat A~B	B~Dona	Dona~Reg	Reg~Bri	Bri~Qui	Total
1.09	0.83	1.39	0.84	1.28	1.77	2.08	22.71
169147	169837	136377	86714	78193	78193	42464	
170880	174911	142032	81927	73356	63521	36161	
192	192	100	100	100	100	100	
77	77	119	76	68	68	37	
419	319	278	168	256	354	416	7,366
370,629	286,141	386,989	141,658	193,983	250,834	183,540	7,390,819

# 6.2.17 (2) Calculation of Train kilometer, etc. Line 4 (Case 3~4)

Case 3

Line 4		Old~UST	UST~Ant	Ant~Wel	Wel~Ban	Ban~Ara	Ara~Roos	Roos~Tim	Tim~Boh	Boh~Que	Que~Agh	Agh~Q.Cit	Q.Cit~Ph	Ph~Stat	Stat~Tan	Tan~Zur
Section	km	0.95	0.67	1.06	0.93	0.8	0.76	0.93	0.78	0.66	0.45	1.3	0.65	1.46	1.12	0.91
Carried →(E.B)	112367	125415	154818	161412	180756	184558	192367	192367	192367	189034	241728	259561	251190	242242	213203	209898
(pes./day)	118964	134468	173921	175538	197766	206023	206489	206489	206489	202014	270450	290224	284015	282211	247919	249690
No.of Train	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
乗車率 %	52	58	71	74	83	85	88	88	88	87	111	119	115	111	98	96
→(E)	361	255	403	353	304	289	353	353	296	251	171	494	247	555	426	346
Train-km	219,764	174,122	348,463	313,364	302,818	296,842	371,226	371,226	311,108	258,092	230,480	714,721	347,883	765,701	516,524	418,225
Passen.-km																

Zur~Don	Don~Bat	Bat A~B	B~Dona	Dona~Reg	Reg~Bri	Bri~Qui	Total
1.09	0.83	1.39	0.84	1.28	1.77	2.08	22.71
166727	167407	133413	81729	73160	73160	37274	
197408	201392	167808	100798	91784	73693	42503	
190	190	100	100	100	100	100	
77	77	116	71	64	64	33	
414	315	278	168	256	354	416	7,305
396,905	306,103	418,697	153,323	211,128	259,930	165,936	7,501,354

Case 4

Line 4		Old~UST	UST~Ant	Ant~Wel	Wel~Ban	Ban~Ara	Ara~Roos	Roos~Tim	Tim~Boh	Boh~Que	Que~Agh	Agh~Q.Cit	Q.Cit~Ph	Ph~Stat	Stat~Tan	Tan~Zur
Section	km	0.95	0.67	1.06	0.93	0.8	0.76	0.93	0.78	0.66	0.45	1.3	0.65	1.46	1.12	0.91
Carried →(E.B)	133645	145157	150455	156999	175731	179542	187662	187662	187342	184146	236760	255236	247381	238744	209809	206437
(pes./day)	146544	159171	170849	165927	188173	196448	196914	196914	196914	192499	260889	281722	275938	274213	240380	242135
No.of Train	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186
乗車率 %	63	68	71	74	82	84	88	88	88	86	111	120	116	112	98	97
→(E)	353	249	394	346	298	283	346	346	290	246	167	484	242	543	417	339
Train-km	266,180	203,900	340,582	300,321	291,123	285,752	357,656	357,656	299,720	248,586	223,942	698,045	340,157	748,917	504,212	408,201
Passen.-km																

Zur~Don	Don~Bat	Bat A~B	B~Dona	Dona~Reg	Reg~Bri	Bri~Qui	Total
1.09	0.83	1.39	0.84	1.28	1.77	2.08	22.71
163413	164089	131026	81262	72744	72744	36855	
189853	193849	160281	93319	84319	73438	42277	
186	186	98	98	98	98	98	
77	77	117	72	65	65	33	
405	309	272	165	251	347	408	7,153
385,060	297,089	404,917	146,648	201,041	258,742	164,595	7,375,384

# 6.2.18 Calculation of Train kilometer, etc. Line 6 (Case 1~4)

Case 1

Line 6	Section	km	Niog~Tal	Tal~Zap	Zap~L.P.in	Pina~Malanu	D.Sa	Sant~N.A.	Aqui~As	Asia~MIA	MIA~Rede	Rede~Bacil	Total
Carried	→(N.B)	125242	125311	119685	122768	127086	112500	132938	117073	102602	86470		
	←(S.B)	95385	95728	103835	122625	134232	116967	121393	111042	106044	75192		
No.of Train	Train/day	121	121	121	121	121	121	121	121	121	121	121	
乗車率 %	→ (N)	113	114	108	111	115	102	120	106	93	78		
Train-km	(km)	162	252	351	327	236	334	393	189	392	194		2,829
Passen.-km	(km)	147,599	230,323	324,328	331,526	254,524	316,894	412,779	177,702	338,007	129,330		2,663,010

Case 2

Line 6	Section	km	Niog~Tal	Tal~Zap	Zap~L.P.in	Pina~Malanu	D.Sa	Sant~N.A.	Aqui~As	Asia~MIA	MIA~Rede	Rede~Bacil	Total
Carried	→(N.B)	125,379	125,450	119,555	122,623	126,942	112,080	132,530	116,722	102,173	85,942		
	←(S.B)	95,403	95,753	103,416	122,408	134,055	116,784	121,209	110,856	105,858	74,118		
No.of Train	Train/day	121	121	121	121	121	121	121	121	121	121	121	
乗車率 %	→ (N)	114	114	108	111	115	102	120	106	93	78		
Train-km	(km)	162	252	351	327	236	334	393	189	392	194		2,829
Passen.-km	(km)	147,703	230,494	323,531	331,037	254,211	316,061	411,818	177,283	337,010	128,048		2,657,197

Case 3

Line 6	Section	km	Niog~Tal	Tal~Zap	Zap~L.P.in	Pina~Malanu	D.Sa	Sant~N.A.	Aqui~As	Asia~MIA	MIA~Rede	Rede~Bacil	Total
Carried	→(N.B)	125,641	125,708	120,447	122,832	127,142	112,452	132,886	117,048	103,236	85,576		
	←(S.B)	96,118	96,414	104,049	123,003	134,591	117,410	121,917	111,660	106,662	76,028		
No.of Train	Train/day	121	121	121	121	121	121	121	121	121	121	121	
乗車率 %	→ (N)	114	114	109	111	115	102	120	106	94	78		
Train-km	(km)	162	252	351	327	236	334	393	189	392	194		2,829
Passen.-km	(km)	148,357	231,451	325,744	332,123	254,928	317,439	413,545	178,164	340,035	129,283		2,671,069

Case 4

Line 6	Section	km	Niog~Tal	Tal~Zap	Zap~L.P.in	Pina~Malanu	D.Sa	Sant~N.A.	Aqui~As	Asia~MIA	MIA~Rede	Rede~Bacil	Total
Carried	→(N.B)	125,608	125,675	120,442	122,830	127,142	112,045	132,443	116,829	102,767	85,038		
	←(S.B)	96,188	96,477	103,948	122,801	134,426	117,238	121,748	111,420	106,422	74,776		
No.of Train	Train/day	121	121	121	121	121	121	121	121	121	121	121	
乗車率 %	→ (N)	114	114	109	111	115	102	120	106	93	77		
Train-km	(km)	162	252	351	327	236	334	393	189	392	194		2,829
Passen.-km	(km)	148,382	231,482	325,590	331,847	254,767	316,640	412,552	177,806	338,886	127,851		2,665,804



# 6.2.19 (1) Calculation of Train kilometer, etc. North Rail & MCX (Case 1~2)

Train -km. Case 1		North Rail/MCX				PNR:Ground--Not connect				10cars*1740parsons/train						
Nrth Rail/MCX		Mari~Mey	Mey~3	3~4	4~Caloo	Caloo~6	6~7	7~8	8~9	Blum	Blum~Lal	Lalao~Espa	S.Me	Mes~Par	Pand~Pad	Pac~Vit
Section	km	3.10	3.50	4.50	1.30	3.60	0.50	0.50	1.70	1.10	0.52	1.96	1.49	1.42	1.67	
Carried	→(S.B)	111,511	147,088	167,113	180,445	193,593	206,438	208,416	207,609	213,444	216,514	255,600	260,264	262,755	259,454	
	←(N.B)	85864	120555	126005	139127	133770	144146	143345	169267	198416	198585	237533	244869	260981	266778	
No.of Train	Train/day	90	90	90	90	90	150	150	150	150	150	150	150	150	150	
乗車率 %	→(S.B)	71	94	107	115	74	79	80	80	82	83	98	100	101	99	
Train -km.	(km)	558	630	810	234	1,080	150	150	510	330	156	588	447	426	501	
Passen-km	(km)	611,863	936,751	1,319,031	415,444	1,178,507	175,292	175,881	640,689	453,046	215,851	966,541	752,648	743,705	878,807	
Train-km		2,232														

Train-km 2,232

Vit~Buen	Buen~Pid	Plo~EDS	EDS~FTI	FTI~Bic	Bic~Suca	Sucat~Ala	Ala~Mun	Mun~San	San P~Bin	Bin~S.Ro	S.Ro~Cab	Total
1.06	1.12	1.11	3.05	3.60	4.01	3.68	3.31	3.56	4.20	4.04	3.61	63.21
250,683	286,249	290,937	304,894	305,030	309,629	269,275	274,474	194,634	111,994	82,076	60,772	
259,448	298,639	300,892	336,713	345,571	339,833	330,528	280,191	246,978	163,441	137,270	92,519	
150	150	150	150	150	150	150	150	105	105	105	105	
96	110	111	117	117	119	103	105	107	61	45	33	
318	336	333	915	1,080	1,203	1,104	993	748	882	848	758	16,088
540,739	655,075	656,930	1,956,901	2,342,164	2,604,343	2,207,275	1,835,941	1,572,139	1,156,827	886,168	553,381	26,431,926

Train -km.		Case 2		North Rail/MCX					PNR:Underground---Not connect					10cars*1740parsons/train				
Nrth Rail/MCX		Mari~Mey	Mey~3	3~4	4~Caloo	Caloo~6	6~7	7~8Tayu	8~9	9~D.Jos	D.Jos~Jose	Jose~11	11~Paco	Paco~13	13~Vito	Vit~Buen		
Section	km	3.10	3.50	4.50	1.30	3.60	0.50	0.50	0.2	1.97	1.27	1.37	1.17	1.10	1.06			
Carried		156,770	193,930	216,596	237,465	268,972	293,553	296,599	296,755	296,755	315,805	308,882	315,384	314,890	300,307			
		104427	151209	171971	195446	205330	219958	219157	250501	250501	281812	291356	318221	319544	311282			
No.of Train	Train/day	120	120	120	120	160	160	160	160	160	160	160	160	160	160	160		
乗車率 %	→(S,B)	75	93	104	114	97	105	107	107	107	113	111	113	113	108	108		
Train -km.	(km)	744	840	1,080	312	1,152	160	160	64	630	406	438	374	352	339	339		
Passen-km	(km)	809,711	1,207,987	1,748,552	562,784	1,707,487	256,756	257,878	109,451	1,078,094	758,974	822,326	741,318	697,877	648,284	648,284		
																Train-km	2,976	

Train-km 2,976

Buen~Pid	Pio~EDS	EDS~FTI	FTI~Bio	Bio~Suca	Sucat~Ala	Ala~Mun	Mun~San	San P~Bir	Bir~S.Ro	S.Ro~Cab	Total
1.12	1.11	3.05	3.60	4.01	3.68	3.31	3.56	4.20	4.04	3.61	60.43
314,136	320,015	330,787	329,138	331,619	283,172	286,247	194,947	112,634	83,219	60,700	
332,223	333,454	368,871	376,387	367,068	349,614	295,529	255,029	172,855	146,664	99,910	
160	160	160	160	160	160	160	160	60	60	60	
113	115	119	118	119	102	103	70	108	80	58	
358	355	976	1,152	1,283	1,178	1,059	1,139	504	485	433	15,976
723,922	725,351	2,133,957	2,539,890	2,801,735	2,328,652	1,925,679	1,601,915	1,199,054	928,727	576,192	28,892,552

# 6.2.19 (2) Calculation of Train kilometer, etc. North Rail & MCX (Case 3~4)

Train -km, Case 3			North Rail/MCX					PNR:Ground---Line1&Line3 Connect					10cars*1740parsons/train				
Nrth Rail/MCX		Mari~Mey	Mey~3	3~4	4~Caloo	Caloo~6	6~7	7~8	8~9	Blum	Blum~La	La~Espa	spa~S.Me	Mes~Par	Par~Pad	Pad~Vit	
Section	km	3.10	3.50	4.50	1.30	3.60	0.50	0.50	1.70	1.10	0.52	1.96	1.49	1.42	1.67		
Carried	→(S.B)	111392	147185	167628	179254	188053	201021	202997	202192	208731	211338	248811	249194	251685	248346		
	←(N.B)	86626	117856	122894	135789	130416	140092	139291	164440	191477	191645	230359	238816	254975	260846		
No.of Train	Train/day	90	90	90	90	150	150	150	150	150	150	150	150	150	150	150	
乗車率 %	→(S.B)	71	94	107	114	72	77	78	77	80	81	95	95	96	95	95	
Train -km	(km)	558	630	810	234	1,080	150	150	510	330	156	588	447	426	501	501	
Passen-km	(km)	613,856	927,644	1,307,349	409,556	1,146,488	170,557	171,144	623,274	440,229	209,551	939,173	727,135	719,429	850,351	850,351	
		Train-km 2,232															

Vit~Buen	Buen~Pic	Pio~EDS	EDS~FTI	FTI~Bic	Bic~Suca	Suca~Ala	Ala~Mun	Mun~San	San P~Bir	Bir~S.Ro	S.Ro~Cab	Total
1.06	1.12	1.11	3.05	3.60	4.01	3.68	3.31	3.56	4.20	4.04	3.61	63.21
240191	279190	283932	308032	308007	312609	270597	274622	195432	111580	81687	60309	
253510	294044	296294	337793	346647	340913	331723	279839	246827	163796	137619	93029	
150	150	150	150	150	150	150	150	105	105	105	105	
92	107	109	118	118	120	104	105	107	61	45	33	
318	336	333	915	1,080	1,203	1,104	993	748	882	848	758	16,088
523,323	642,022	644,051	1,969,766	2,356,754	2,620,623	2,216,538	1,835,266	1,574,442	1,156,579	885,996	553,550	26,234,646
13,856												

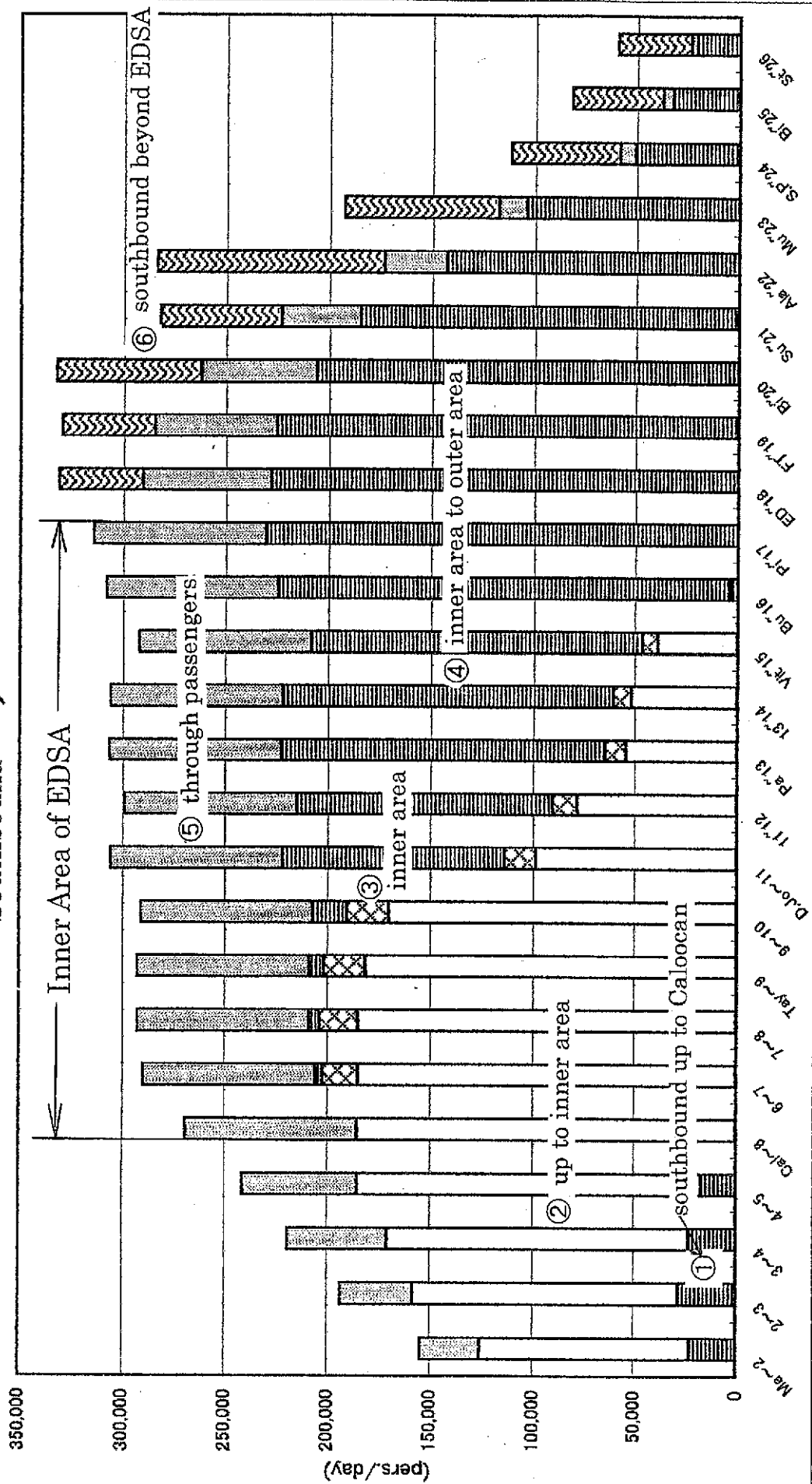
Train -km, Case 4		North Rail/MCX					PNR:Underground--Line1&Line3 Connect									
Nrth Rail/MCX		Mari~Mey	Mey~3	3~4	4~Caloo	Caloo~6	6~7	7~8Tayu	8~9	9~D.Jose	D.Jose~11	11~Paco	Paco~13	13~Vito	Vit~Buen	
Section	km	3.10	3.50	4.50	1.30	3.60	0.50	0.50	0.2	1.97	1.27	1.37	1.17	1.10	1.06	
Carried	→(S.B)	156221	195105	219320	240988	269033	290751	293725	293934	292125	309160	302729	309074	308687	294531	
	←(N.B)	104743	149791	169197	191369	198752	213032	212231	242584	248526	271891	282927	310247	311574	303438	
No.of Train	Train/day	120	120	120	120	160	160	160	160	160	160	160	160	160	160	
乗車率 %	→(S.B)	75	93	105	115	97	104	106	106	105	111	109	111	111	106	
Train -km,	(km)	744	840	1,080	312	1,152	160	160	64	630	406	438	374	352	339	
Passen-km	(km)	808,988	1,207,136	1,748,327	562,064	1,684,026	251,892	252,978	107,304	1,065,082	737,935	802,349	724,606	682,287	633,847	
		Train-km 2,976														

Buen~Pic	Pio~EDS	EDS~FTI	FTI~Bic	Bic~Suca	Sucat~Ala	Ala~Mun	Mun~San	San P~Bir	Bir~S.Ro	S.Ro~Cab	Total
1.12	1.11	3.05	3.60	4.01	3.68	3.31	3.56	4.20	4.04	3.61	60.43
310526	316494	333928	332252	334827	284799	286592	196211	112690	83017	60270	
328788	330139	371082	378702	369379	351727	295859	255437	172976	146711	99239	
160	160	160	160	160	160	160	160	60	60	60	
112	114	120	119	120	102	103	70	108	80	58	
358	355	976	1,152	1,283	1,178	1,059	1,139	504	485	433	15,976
716,032	717,763	2,150,281	2,559,434	2,823,866	2,342,416	1,927,913	1,607,867	1,199,797	928,101	575,827	28,818,116
											13,000

# North Rail/MCX : Sectional Traffic Volume(2015)

Case 4

Southbound →



# North Rail/MCX : Sectional Traffic Volume(2015)

## Case 4

← Northbound

