

# RELATÓRIO DE PESQUISAS

## CONTAGEM VOLUMÉTRICA CLASSIFICADA EM CRUZAMENTOS (15)

**034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio**

Ref.: RT-4378-01-200-3J21-034\_A



**Ribeirão Preto - SP**

Maio de 2019

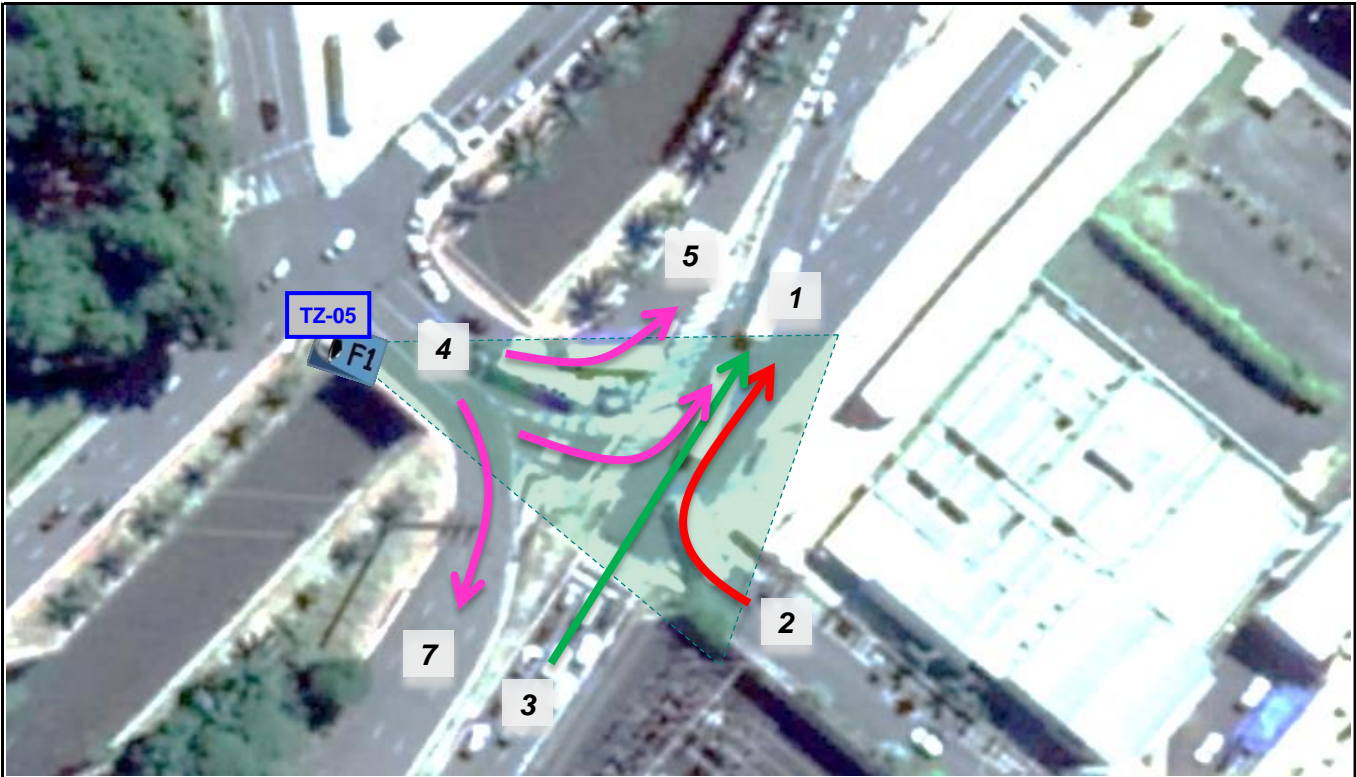
Responsável Técnico:

Fábio de Campos Bittencourt

CREA N°:

ART 28027230181266891

Croquis 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio



Vídeos



Movimentos Contados

- 2 > 1 R. Prudente de Moraes conv à dir. R. José Bonifácio
- 3 > 1 R. José Bonifácio em frente
- 4 > 1 Al. Botafogo conv à esq. R. José Bonifácio
- 4 > 5 Al. Botafogo conv à esq. Av. Jerônimo Gonçalves
- 4 > 7 Al. Botafogo conv à dir. R. Felipe Camarão

**Perfil Horário 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio**

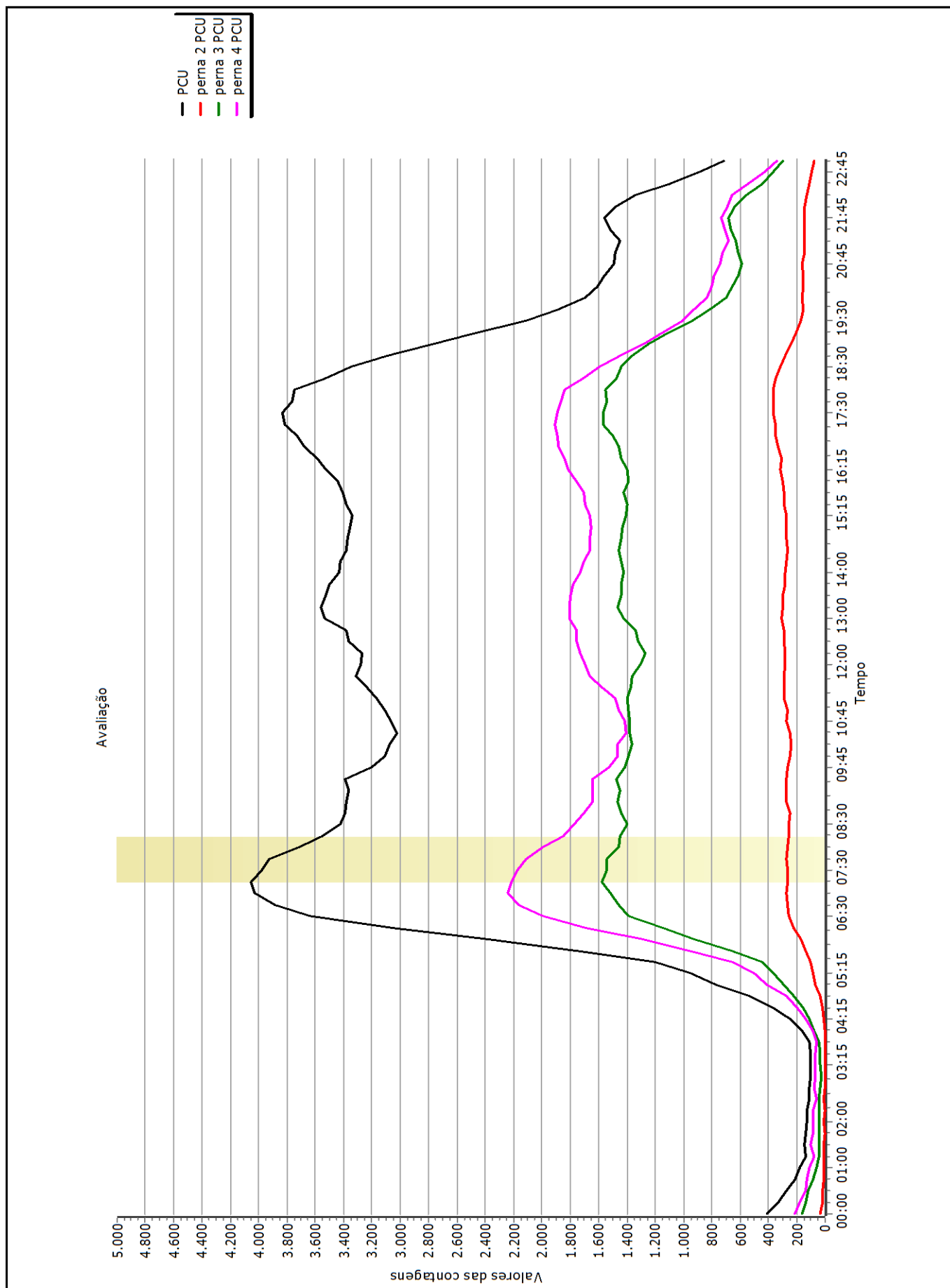
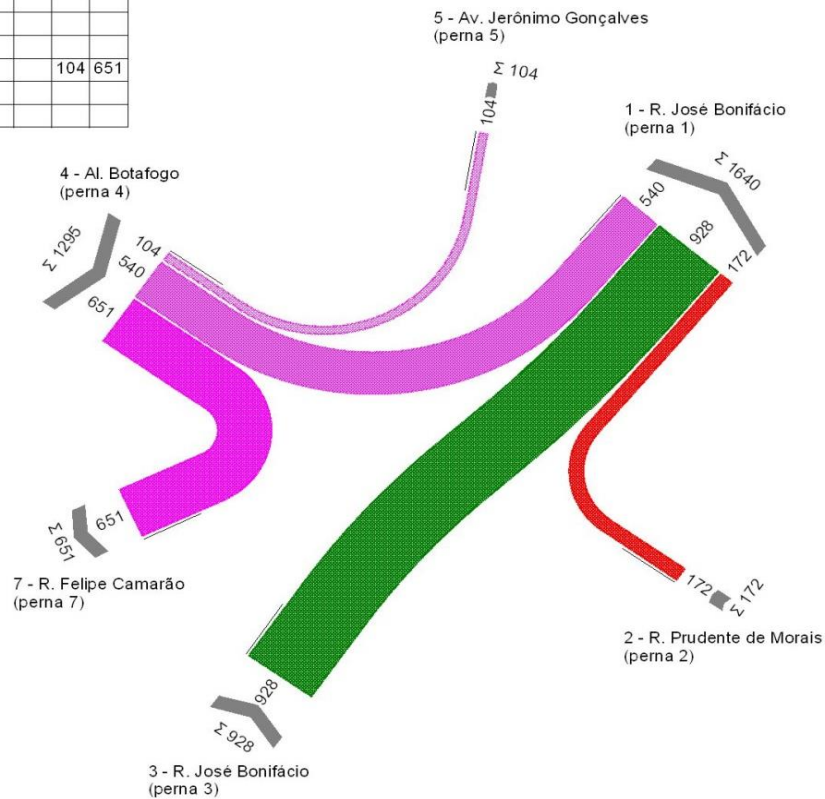
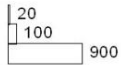


Diagrama de Fluxos

034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio

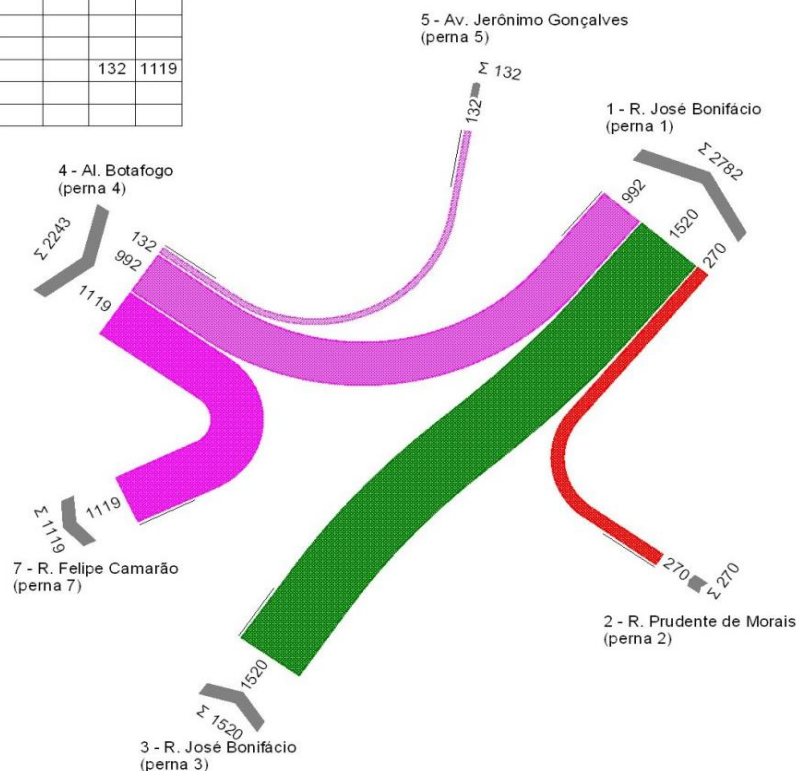
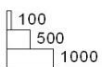
Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 06:00 - 07:00  
On the basis of a time period 18.03.2019 06:00 - 18.03.2019 07:00  
2395 PCU

De \ Para	1	2	3	4	5	7
1						
2	172					
3	928					
4	540			104	651	
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 07:00 - 08:00  
On the basis of a time period 18.03.2019 07:00 - 18.03.2019 08:00  
4033 PCU

De \ Para	1	2	3	4	5	7
1						
2	270					
3	1520					
4	992			132	1119	
5						
7						

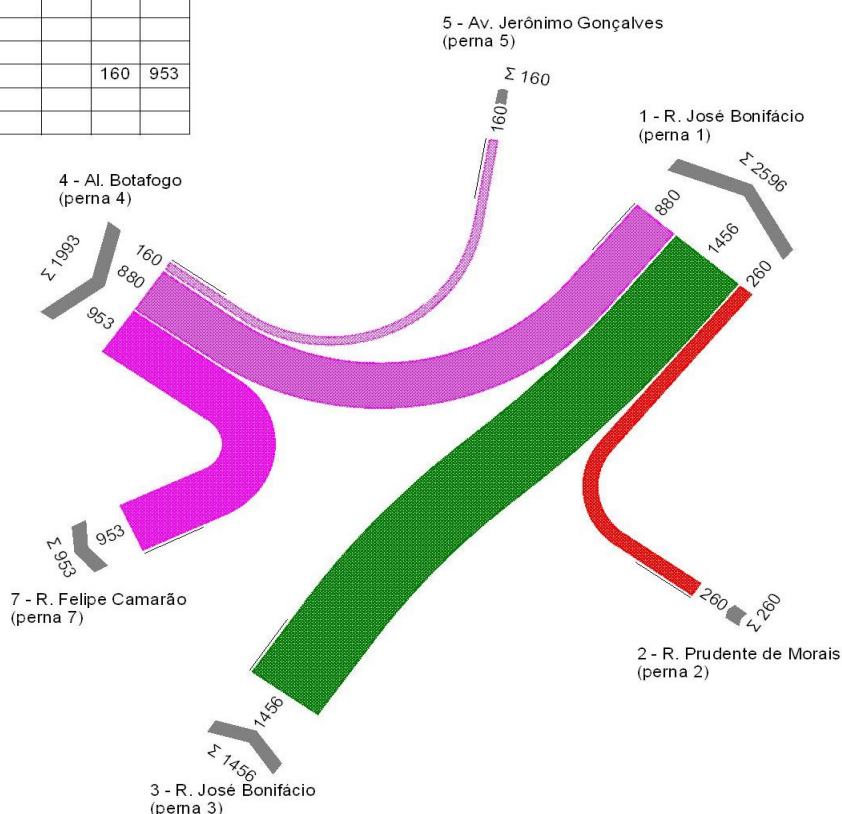
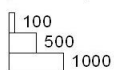




**Diagrama de Fluxos 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio**

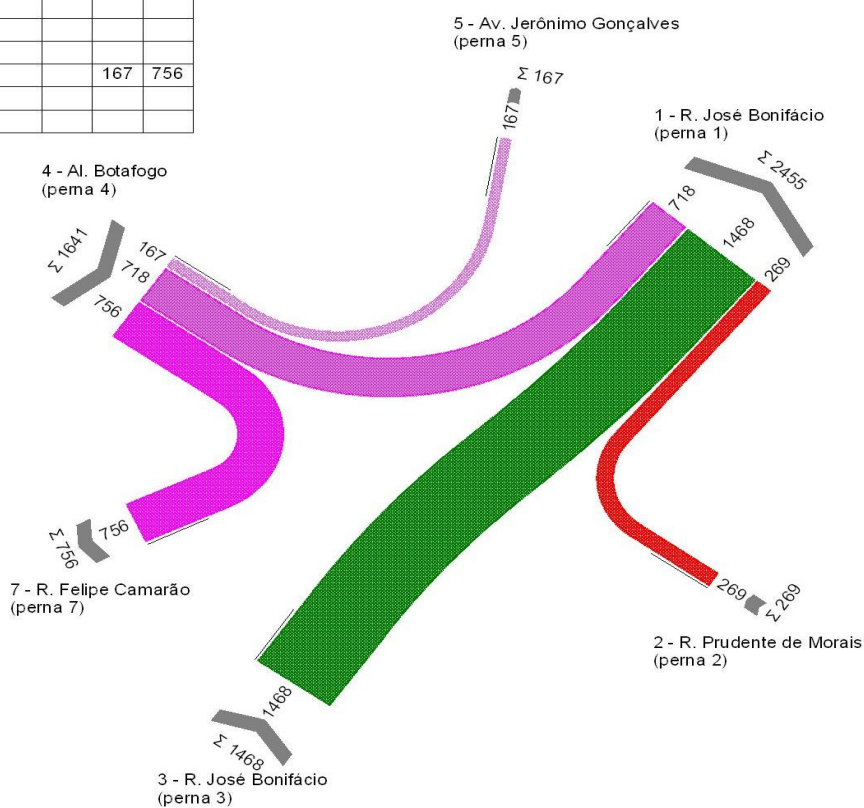
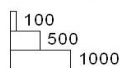
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Valor horário máximo 08:00 - 09:00  
On the basis of a time period 18.03.2019 08:00 - 18.03.2019 09:00  
3709 PCU

De \ Para	1	2	3	4	5	7
1						
2	260					
3	1456					
4	880				160	953
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 09:00 - 10:00  
On the basis of a time period 18.03.2019 09:00 - 18.03.2019 10:00  
3378 PCU

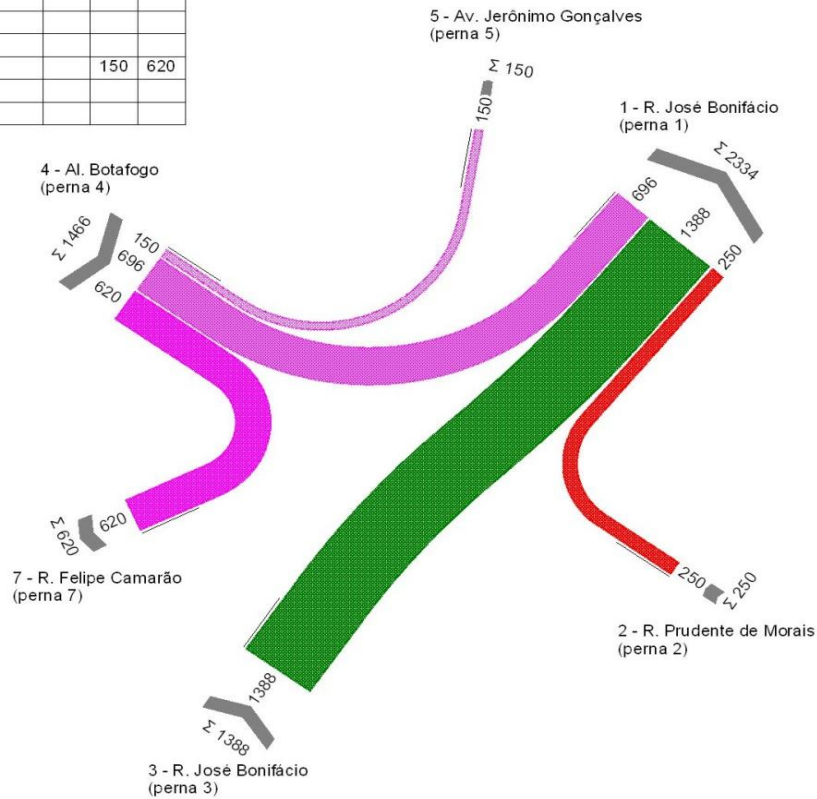
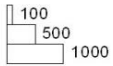
De \ Para	1	2	3	4	5	7
1						
2	269					
3	1468					
4	718				167	756
5						
7						



# Diagrama de Fluxos 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio

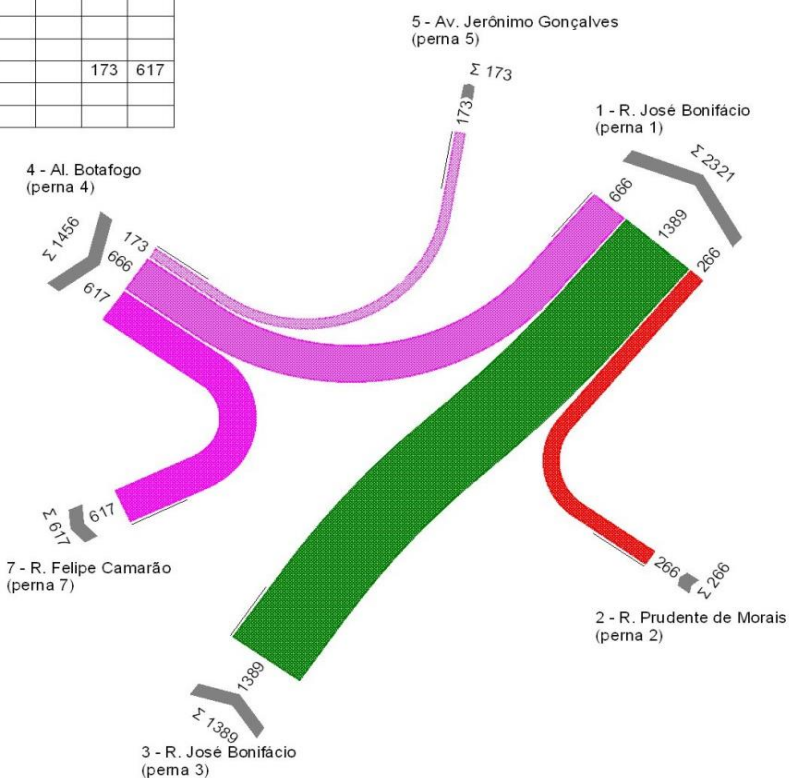
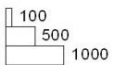
Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 10:00 - 11:00  
On the basis of a time period 18.03.2019 10:00 - 18.03.2019 11:00  
3104 PCU

De \ Para	1	2	3	4	5	7
1						
2	250					
3	1388					
4	696			150	620	
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 11:00 - 12:00  
On the basis of a time period 18.03.2019 11:00 - 18.03.2019 12:00  
3111 PCU

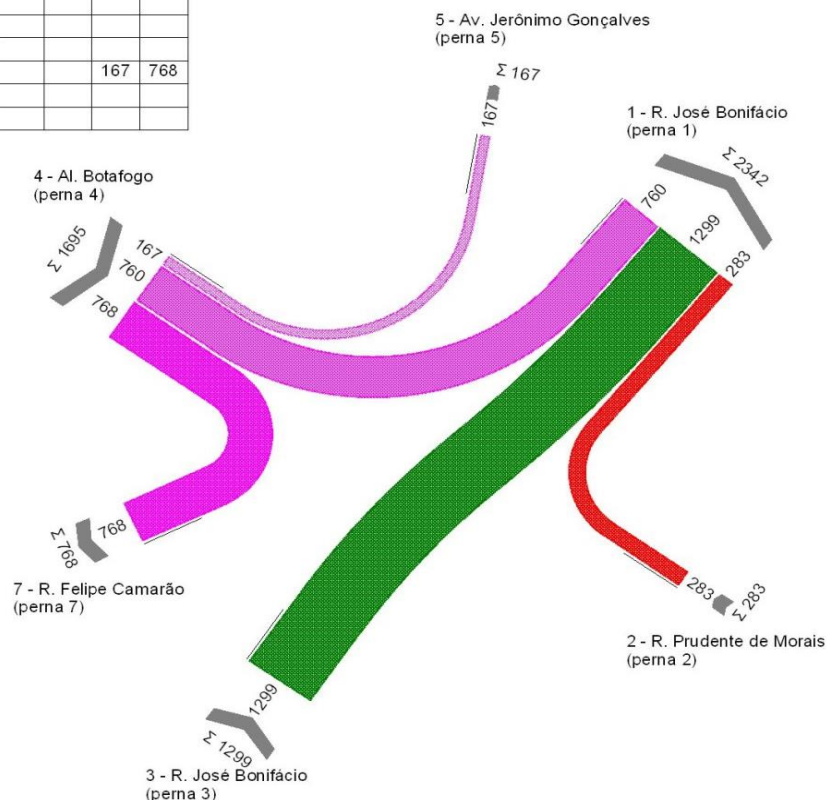
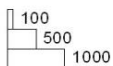
De \ Para	1	2	3	4	5	7
1						
2	266					
3	1389					
4	666			173	617	
5						
7						



**Diagrama de Fluxos 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio**

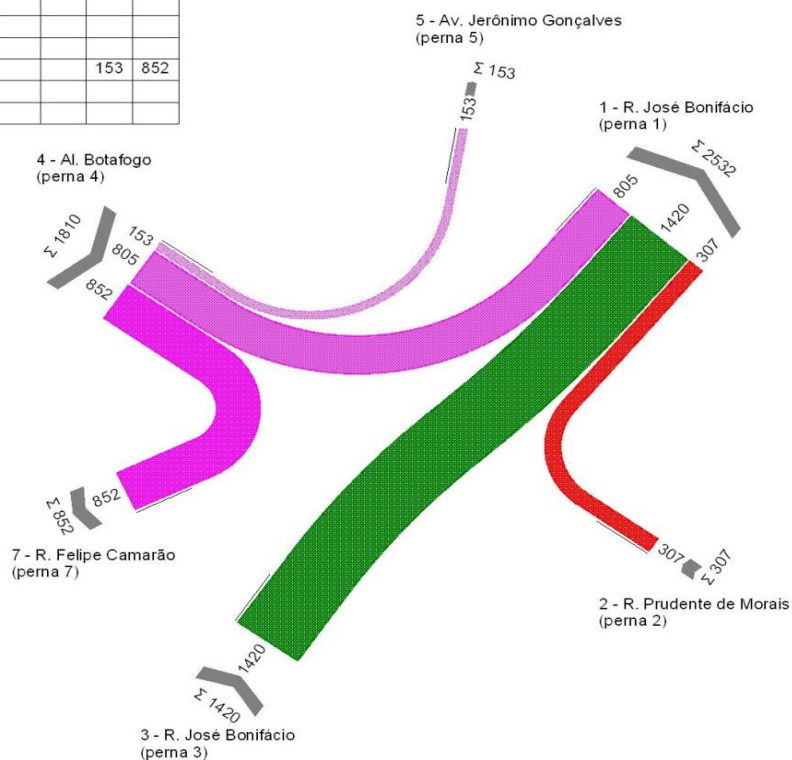
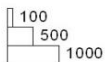
Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 12:00 - 13:00  
On the basis of a time period 18.03.2019 12:00 - 18.03.2019 13:00  
3277 PCU

De \ Para	1	2	3	4	5	7
1						
2	283					
3	1299					
4	760				167	768
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 13:00 - 14:00  
On the basis of a time period 18.03.2019 13:00 - 18.03.2019 14:00  
3537 PCU

De \ Para	1	2	3	4	5	7
1						
2	307					
3	1420					
4	805				153	852
5						
7						

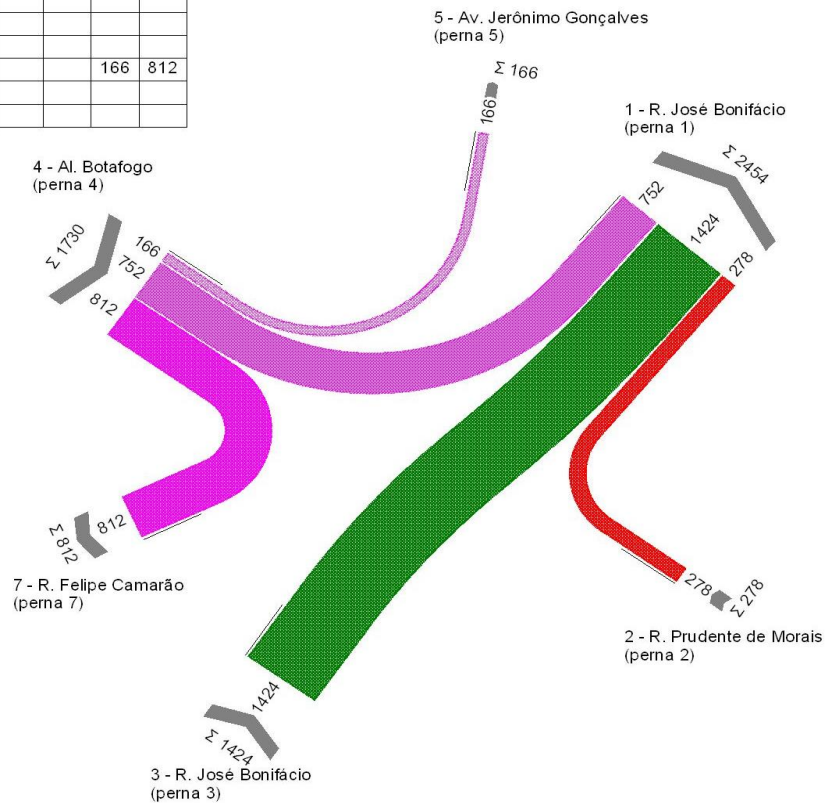
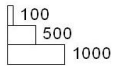




# Diagrama de Fluxos 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio

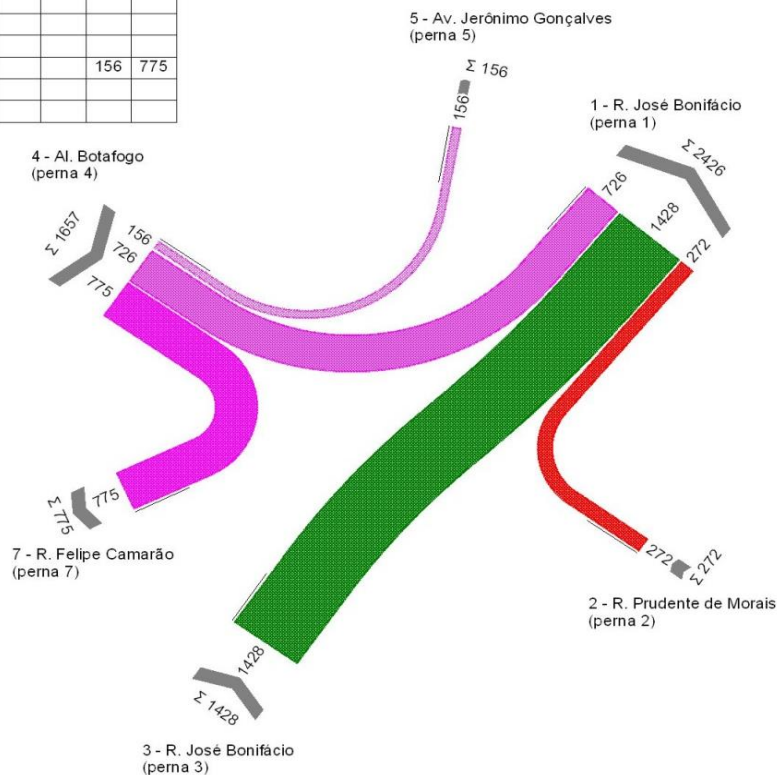
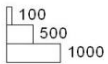
Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 14:00 - 15:00  
On the basis of a time period 18.03.2019 14:00 - 18.03.2019 15:00  
3432 PCU

De \ Para	1	2	3	4	5	7
1						
2	278					
3	1424					
4	752				166	812
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 15:00 - 16:00  
On the basis of a time period 18.03.2019 15:00 - 18.03.2019 16:00  
3357 PCU

De \ Para	1	2	3	4	5	7
1						
2	272					
3	1428					
4	726				156	775
5						
7						

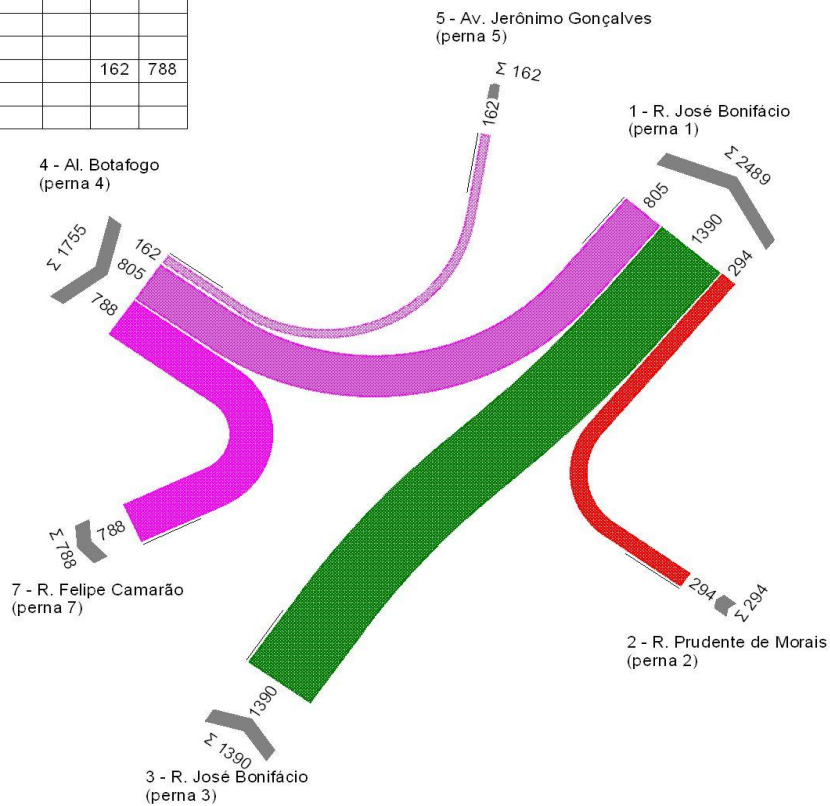
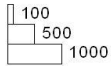




# Diagrama de Fluxos 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio

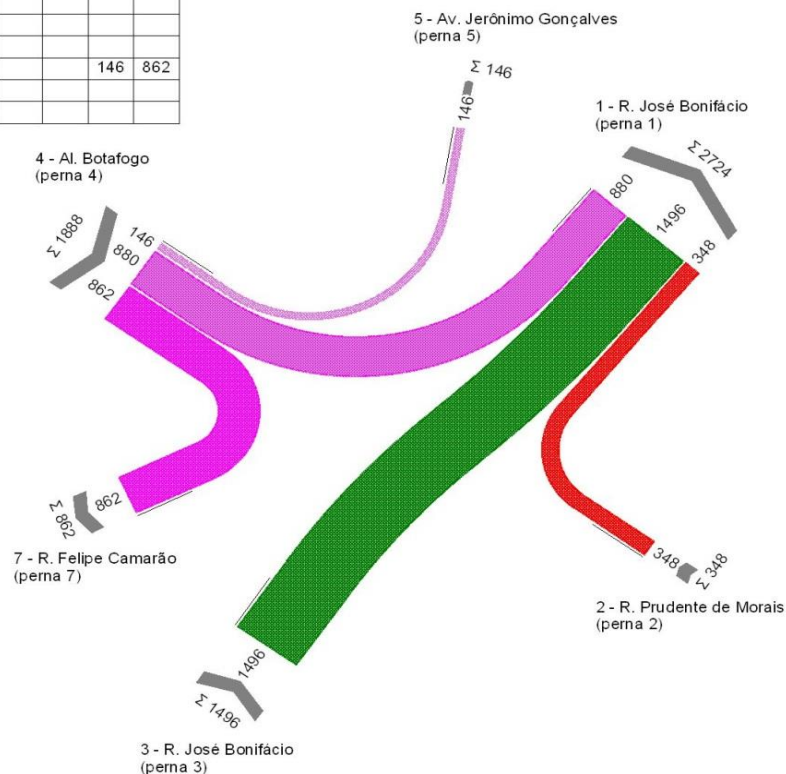
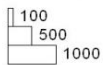
Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
 Valor horário máximo 16:00 - 17:00  
 On the basis of a time period 18.03.2019 16:00 - 18.03.2019 17:00  
 3439 PCU

De \ Para	1	2	3	4	5	7
1						
2	294					
3	1390					
4	805				162	788
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
 Valor horário máximo 17:00 - 18:00  
 On the basis of a time period 18.03.2019 17:00 - 18.03.2019 18:00  
 3732 PCU

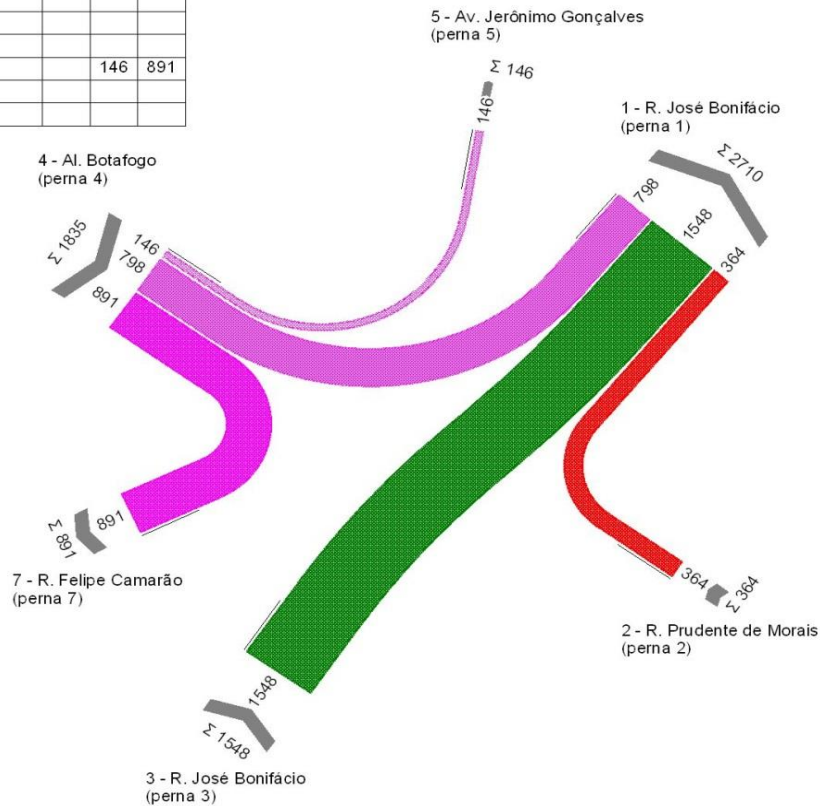
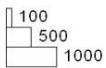
De \ Para	1	2	3	4	5	7
1						
2	348					
3	1496					
4	880				146	862
5						
7						



## Diagrama de Fluxos 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio

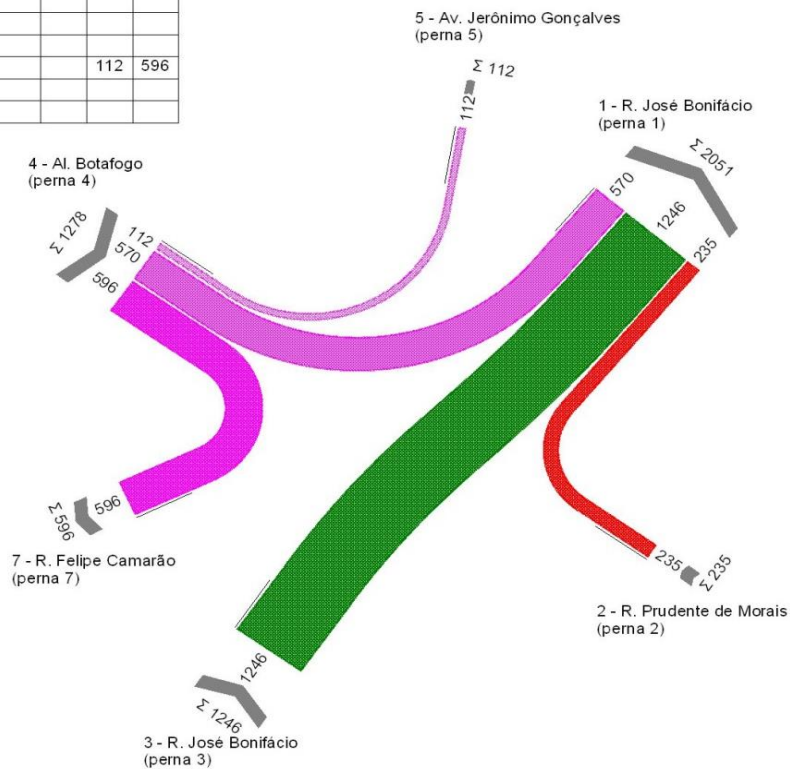
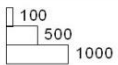
Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 18:00 - 19:00  
On the basis of a time period 18.03.2019 18:00 - 18.03.2019 19:00  
3747 PCU

De \ Para	1	2	3	4	5	7
1						
2	364					
3	1548					
4	798			146	891	
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 19:00 - 20:00  
On the basis of a time period 18.03.2019 19:00 - 18.03.2019 20:00  
2759 PCU

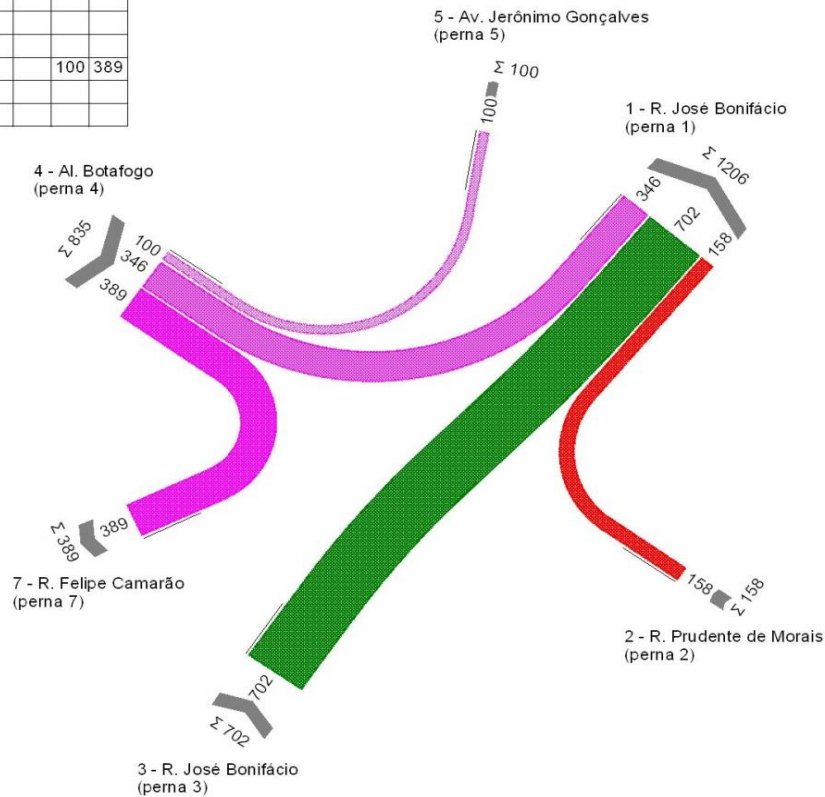
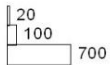
De \ Para	1	2	3	4	5	7
1						
2	235					
3	1246					
4	570			112	596	
5						
7						



## Diagrama de Fluxos 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio

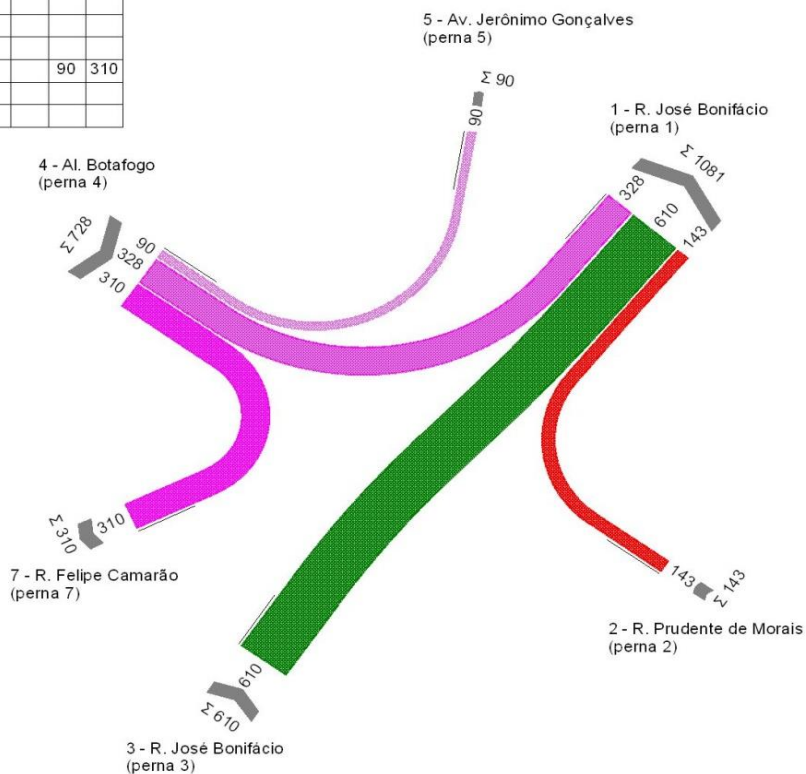
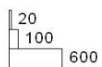
Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 20:00 - 21:00  
On the basis of a time period 18.03.2019 20:00 - 18.03.2019 21:00  
1695 PCU

De \ Para	1	2	3	4	5	7
1						
2	158					
3	702					
4	346				100	389
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 21:00 - 22:00  
On the basis of a time period 18.03.2019 21:00 - 18.03.2019 22:00  
1481 PCU

De \ Para	1	2	3	4	5	7
1						
2	143					
3	610					
4	328				90	310
5						
7						

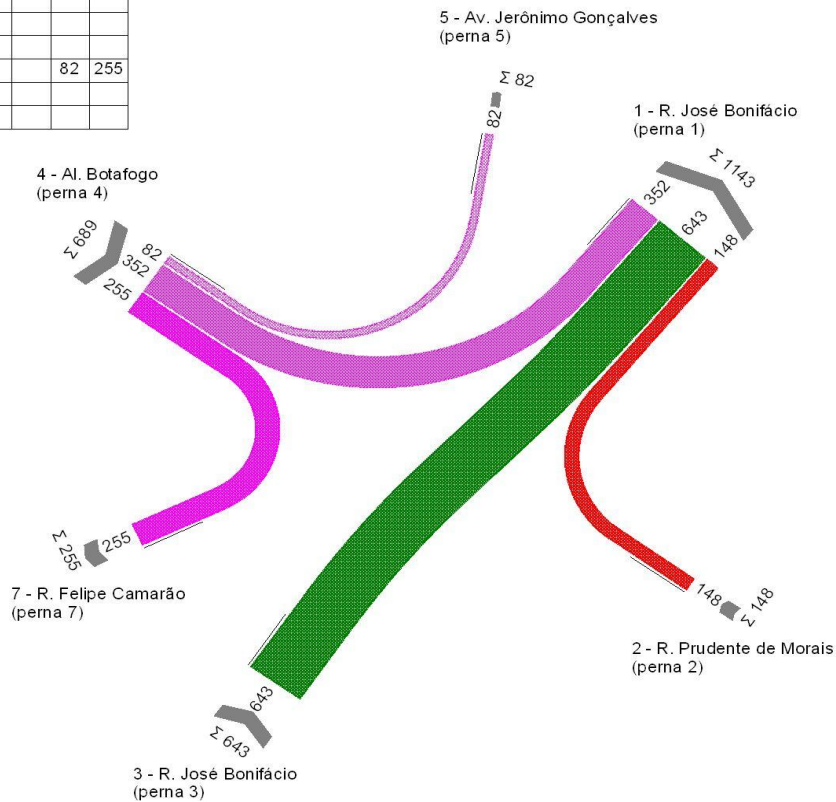
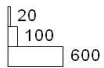




# Diagrama de Fluxos 034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio

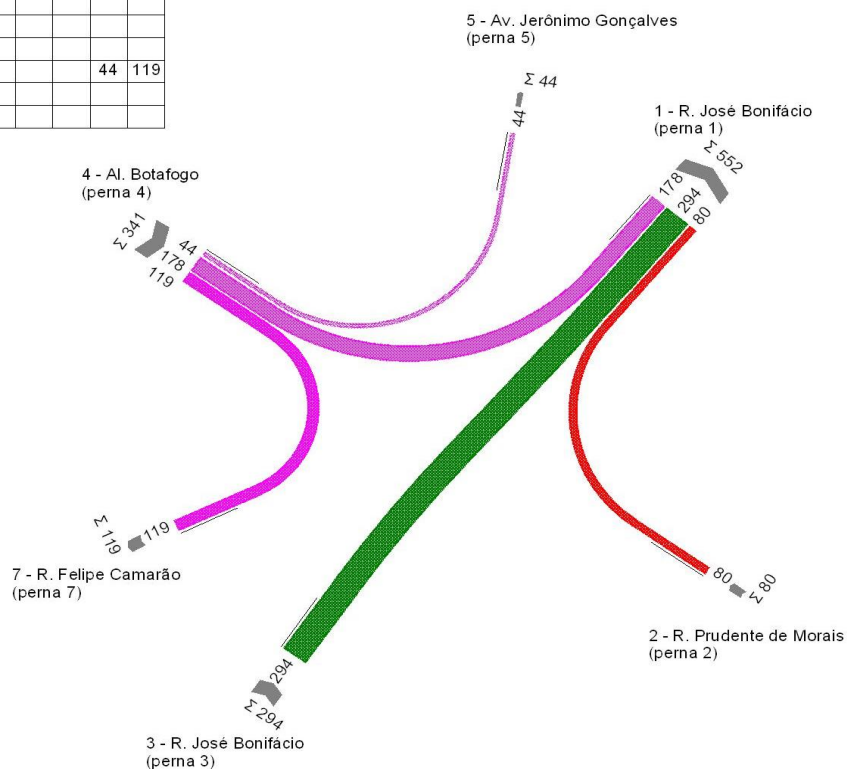
Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 22:00 - 23:00  
On the basis of a time period 18.03.2019 22:00 - 18.03.2019 23:00  
1480 PCU

De \ Para	1	2	3	4	5	7
1						
2	148					
3	643					
4	352				82	255
5						
7						



Contagem De 18/03/2019 as 20h00 até 19/03/2019 as 20h00  
Valor horário máximo 23:00 - 00:00  
On the basis of a time period 18.03.2019 23:00 - 19.03.2019 00:00  
715 PCU

De \ Para	1	2	3	4	5	7
1						
2	80					
3	294					
4	178				44	119
5						
7						





PCU

034 (e 035) - Av. Jerônimo Gonçalves X R. José Bonifácio

Nas tabelas de contagem de fluxo veicular a seguir são apresentadas a classificação pelos tipos de veículos como automóvel (**Car**), moto (**Moto**), ônibus (**Bus**) e caminhão (**Truck**).

Neste mesmo quadro estão representadas as contagens dos movimentos a cada 15 minutos e por hora, onde no final de cada quadro existem duas colunas que são identificadas pelas siglas **VEC** e **PCU**.

A sigla **VEC** é a somatória direta de todos os veículos contados sem fator de equivalência. A sigla **PCU**, significa Passenger Car Unit ou mais conhecido como veículos equivalentes, representa a somatória dos veículos com seus respectivos fatores de equivalência, sendo adotados conforme sugestão do manual HCM – High Capacity Manual, os seguintes valores:

- **Automóvel** = 1,0 veículo equivalente
- **Moto** = 0,5 veículo equivalente
- **Caminhão** = 2,5 veículos equivalentes
- **Ônibus** = 2,0 veículos equivalentes

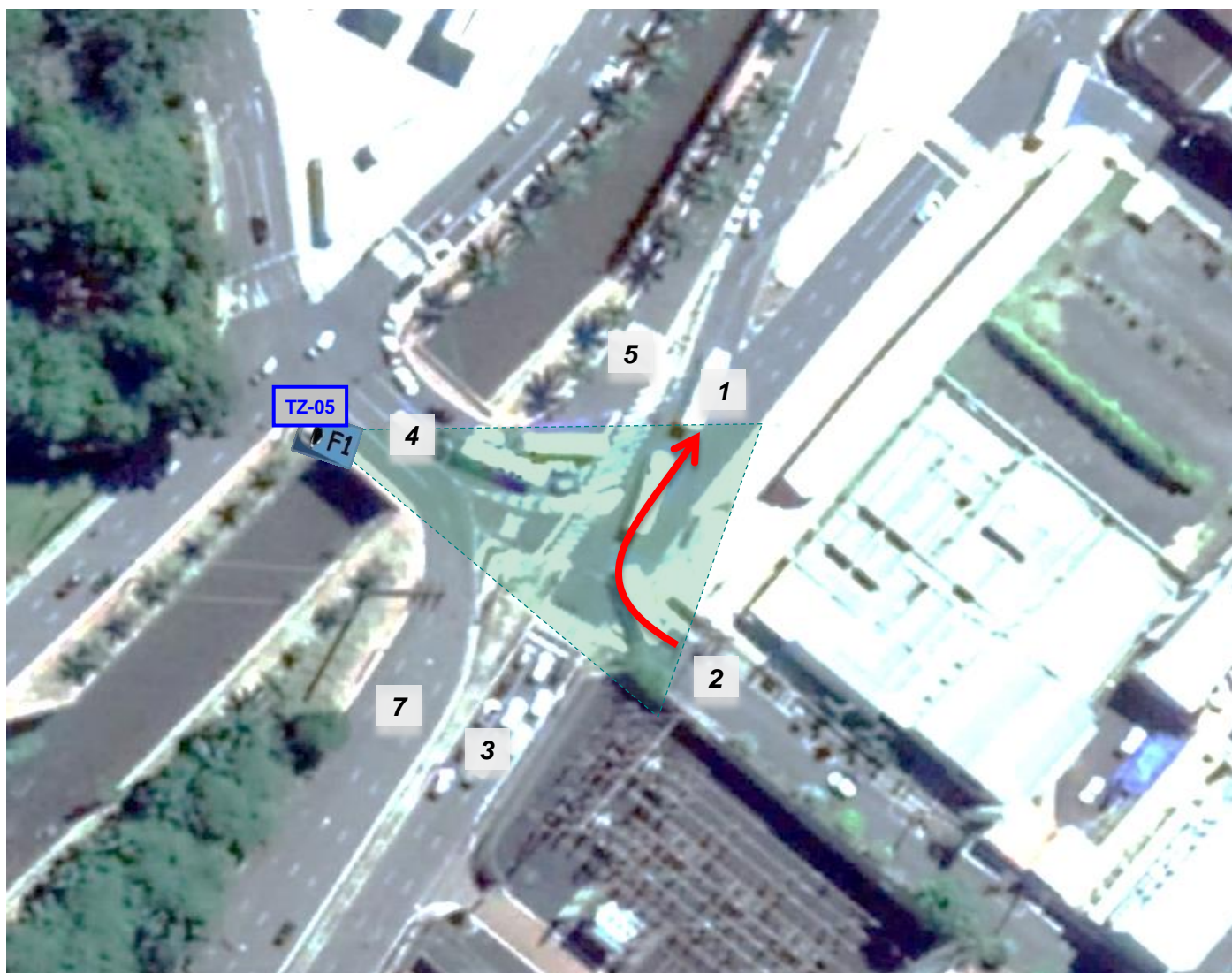
Por exemplo: Na contagem de 1 automóvel, 1 moto, 1 ônibus e 1 caminhão temos como resultado 4 (quatro) **VEC** e 6 (seis) **PCU**, ou seja, 4 (quatro) veículos contados com a consideração dos fatores de equivalência, resultam em 6 (seis) veículos de passeio.

Obs.: Nas tabelas de fluxos veiculares, quando a somatória não resulta em número inteiro o mesmo será arredondado p/ cima.

## Movimentos Contados

2 &gt; 1

R. Prudente de Moraes conv à dir. R. José Bonifácio



## Fluxo veicular a cada hora

Período Manhã								
Período de	até	Car	Moto	Truck	Bus	-	PCU	VEC
0:00	1:00	15	6	0	6	0	30	27
1:00	2:00	6	1	0	0	0	7	7
2:00	3:00	5	0	0	0	0	5	5
3:00	4:00	3	0	0	0	0	3	3
4:00	5:00	1	0	0	0	0	1	1
5:00	6:00	9	0	0	28	0	65	37
6:00	7:00	60	12	0	53	0	172	125
7:00	8:00	130	22	1	63	0	270	216
8:00	9:00	114	31	1	64	0	260	210
9:00	10:00	153	45	3	43	0	269	244
10:00	11:00	131	54	1	45	0	251	231
11:00	12:00	156	61	0	40	0	267	257

Período Tarde								
Período de	até	Car	Moto	Truck	Bus	-	PCU	VEC
12:00	13:00	149	80	4	42	0	283	275
13:00	14:00	184	59	3	43	0	307	289
14:00	15:00	167	51	3	39	0	278	260
15:00	16:00	146	60	1	47	0	273	254
16:00	17:00	160	46	2	53	0	294	261
17:00	18:00	194	76	3	54	0	348	327
18:00	19:00	214	91	1	51	0	364	357
19:00	20:00	109	47	1	50	0	235	207
20:00	21:00	76	23	0	35	0	158	134
21:00	22:00	65	23	1	32	0	143	121
22:00	23:00	72	16	0	34	0	148	122
23:00	0:00	20	9	0	28	0	81	57

## Movimento Contado

2 &gt; 1

R. Prudente de Moraes conv à dir. R. José Bonifácio

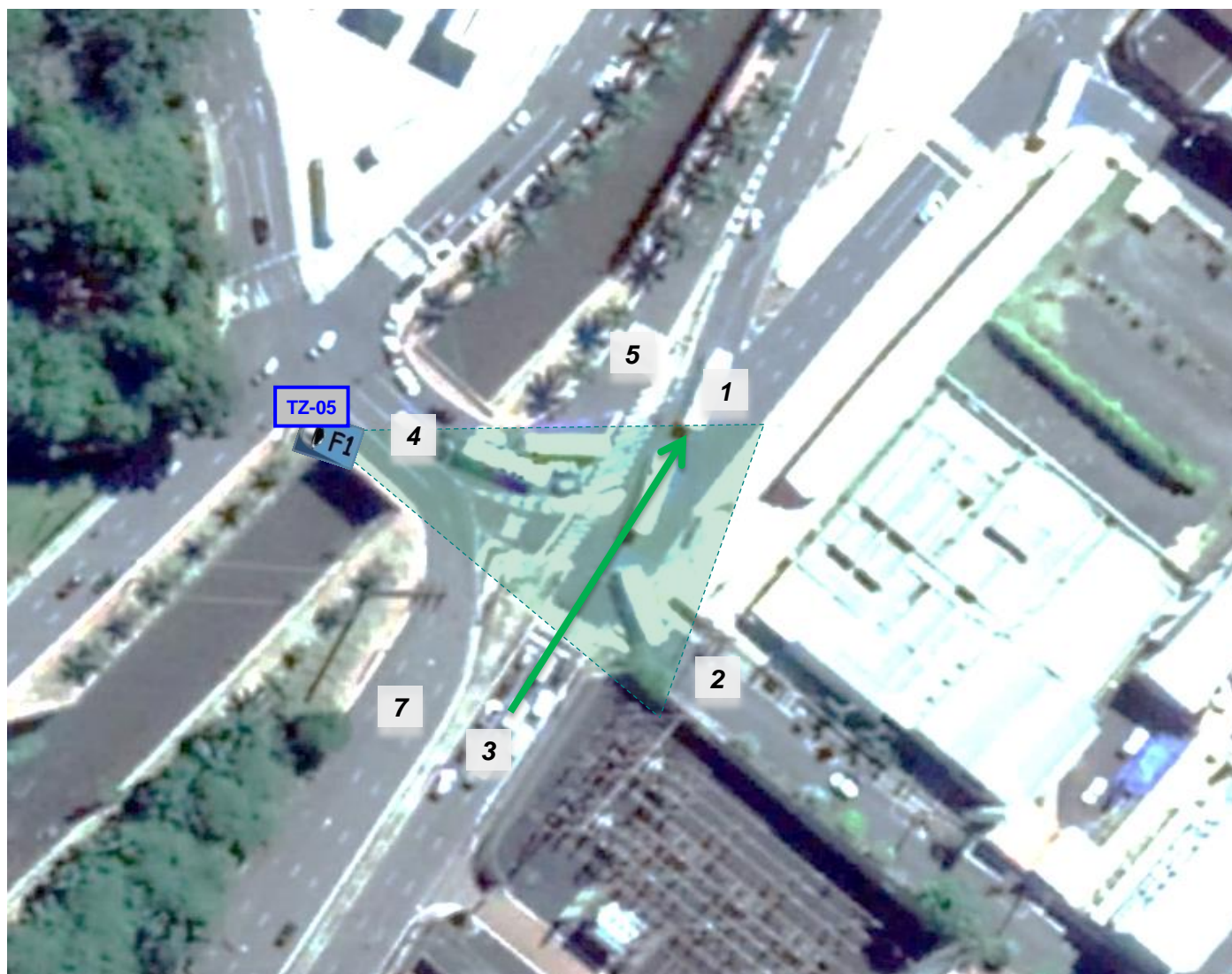
## Fluxo veicular a cada 15 minutos

Período Manhã										Período Tarde									
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC		Período de até		Car	Moto	Truck	Bus	-	PCU	VEC	
0:00	0:15	5	1	0	5	0	16	30	11	12:00	12:15	44	20	0	11	0	76	283	75
0:15	0:30	3	0	0	1	0	5		4	12:15	12:30	36	22	2	10	0	72		70
0:30	0:45	5	2	0	0	0	6		7	12:30	12:45	36	24	0	14	0	76		74
0:45	1:00	2	3	0	0	0	4		5	12:45	13:00	33	14	2	7	0	59		56
1:00	1:15	3	0	0	0	0	3	7	3	13:00	13:15	43	13	1	12	0	76	307	69
1:15	1:30	1	1	0	0	0	2		2	13:15	13:30	46	14	1	11	0	78		72
1:30	1:45	2	0	0	0	0	2		2	13:30	13:45	52	17	0	9	0	79		78
1:45	2:00	0	0	0	0	0	0		0	13:45	14:00	43	15	1	11	0	75		70
2:00	2:15	3	0	0	0	0	3	5	3	14:00	14:15	40	12	1	8	0	65	278	61
2:15	2:30	0	0	0	0	0	0		0	14:15	14:30	43	16	1	11	0	76		71
2:30	2:45	1	0	0	0	0	1		1	14:30	14:45	40	15	1	9	0	68		65
2:45	3:00	1	0	0	0	0	1		1	14:45	15:00	44	8	0	11	0	70		63
3:00	3:15	2	0	0	0	0	2	3	2	15:00	15:15	35	10	0	11	0	62	273	56
3:15	3:30	1	0	0	0	0	1		1	15:15	15:30	41	16	0	9	0	67		66
3:30	3:45	0	0	0	0	0	0		0	15:30	15:45	37	18	0	12	0	70		67
3:45	4:00	0	0	0	0	0	0		0	15:45	16:00	33	16	1	15	0	74		65
4:00	4:15	0	0	0	0	0	0	1	0	16:00	16:15	35	8	0	13	0	65	294	56
4:15	4:30	0	0	0	0	0	0		0	16:15	16:30	54	11	1	11	0	84		77
4:30	4:45	1	0	0	0	0	1		1	16:30	16:45	33	12	0	15	0	69		60
4:45	5:00	0	0	0	0	0	0		0	16:45	17:00	38	15	1	14	0	76		68
5:00	5:15	1	0	0	2	0	5	65	3	17:00	17:15	45	17	1	17	0	90	348	80
5:15	5:30	1	0	0	7	0	15		8	17:15	17:30	42	18	1	11	0	76		72
5:30	5:45	1	0	0	7	0	15		8	17:30	17:45	54	21	1	13	0	93		89
5:45	6:00	6	0	0	12	0	30		18	17:45	18:00	53	20	0	13	0	89		86
6:00	6:15	5	2	0	9	0	24	172	16	18:00	18:15	51	22	0	13	0	88	364	86
6:15	6:30	6	1	0	13	0	33		20	18:15	18:30	60	32	0	12	0	100		104
6:30	6:45	14	2	0	16	0	47		32	18:30	18:45	42	24	1	16	0	89		83
6:45	7:00	35	7	0	15	0	69		57	18:45	19:00	61	13	0	10	0	88		84
7:00	7:15	38	5	0	16	0	73	270	59	19:00	19:15	29	15	0	18	0	73	235	62
7:15	7:30	24	7	0	18	0	64		49	19:15	19:30	33	11	1	12	0	65		57
7:30	7:45	32	4	1	12	0	61		49	19:30	19:45	30	9	0	9	0	53		48
7:45	8:00	36	6	0	17	0	73		59	19:45	20:00	17	12	0	11	0	45		40
8:00	8:15	30	5	1	16	0	67	260	52	20:00	20:15	19	9	0	9	0	42	158	37
8:15	8:30	22	7	0	17	0	60		46	20:15	20:30	14	5	0	9	0	35		28
8:30	8:45	38	12	0	16	0	76		66	20:30	20:45	18	3	0	5	0	30		26
8:45	9:00	24	7	0	15	0	58		46	20:45	21:00	25	6	0	12	0	52		43
9:00	9:15	35	14	0	10	0	62	269	59	21:00	21:15	20	4	0	8	0	38	143	32
9:15	9:30	33	8	1	11	0	62		53	21:15	21:30	13	8	0	8	0	33		29
9:30	9:45	39	15	0	10	0	67		64	21:30	21:45	23	4	0	6	0	37		33
9:45	10:00	46	8	2	12	0	79		68	21:45	22:00	9	7	1	10	0	35		27
10:00	10:15	35	18	0	12	0	68	251	65	22:00	22:15	20	5	0	8	0	39	148	33
10:15	10:30	31	11	1	11	0	61		54	22:15	22:30	18	4	0	7	0	34		29
10:30	10:45	28	10	0	11	0	55		49	22:30	22:45	23	4	0	6	0	37		33
10:45	11:00	37	15	0	11	0	67		63	22:45	23:00	11	3	0	13	0	39		27
11:00	11:15	36	9	0	8	0	57	267	53	23:00	23:15	4	4	0	5	0	16	81	13
11:15	11:30	42	15	0	9	0	68		66	23:15	23:30	3	0	0	9	0	21		12
11:30	11:45	42	22	0	13	0	79		77	23:30	23:45	7	2	0	3	0	14		12
11:45	12:00	36	15	0	10	0	64		61	23:45	0:00	6	3	0	11	0	30		20



## Movimento Contado

3 &gt; 1 R. José Bonifácio em frente



## Fluxo veicular a cada hora

Período Manhã								
Período de	até	Car	Moto	Truck	Bus	-	PCU	VEC
0:00	1:00	112	73	5	2	0	165	192
1:00	2:00	54	11	0	1	0	62	66
2:00	3:00	34	7	1	2	0	44	44
3:00	4:00	21	8	0	1	0	27	30
4:00	5:00	38	16	2	11	0	73	67
5:00	6:00	126	62	4	60	0	287	252
6:00	7:00	676	267	8	49	0	928	1000
7:00	8:00	1184	480	20	23	0	1520	1707
8:00	9:00	1117	443	31	20	0	1456	1611
9:00	10:00	1143	371	43	16	0	1468	1573
10:00	11:00	1110	352	29	15	0	1389	1506
11:00	12:00	1076	423	27	17	0	1389	1543

Período Tarde								
Período de	até	Car	Moto	Truck	Bus	-	PCU	VEC
12:00	13:00	975	423	29	20	0	1299	1447
13:00	14:00	1104	429	27	17	0	1420	1577
14:00	15:00	1105	412	27	23	0	1425	1567
15:00	16:00	1110	352	43	17	0	1428	1522
16:00	17:00	1089	362	27	26	0	1390	1504
17:00	18:00	1159	440	27	25	0	1497	1651
18:00	19:00	1145	621	9	35	0	1548	1810
19:00	20:00	1006	329	11	24	0	1246	1370
20:00	21:00	602	138	3	12	0	703	755
21:00	22:00	500	144	4	14	0	610	662
22:00	23:00	486	214	4	20	0	643	724
23:00	0:00	217	100	3	10	0	295	330



## Movimento Contado

3 &gt; 1

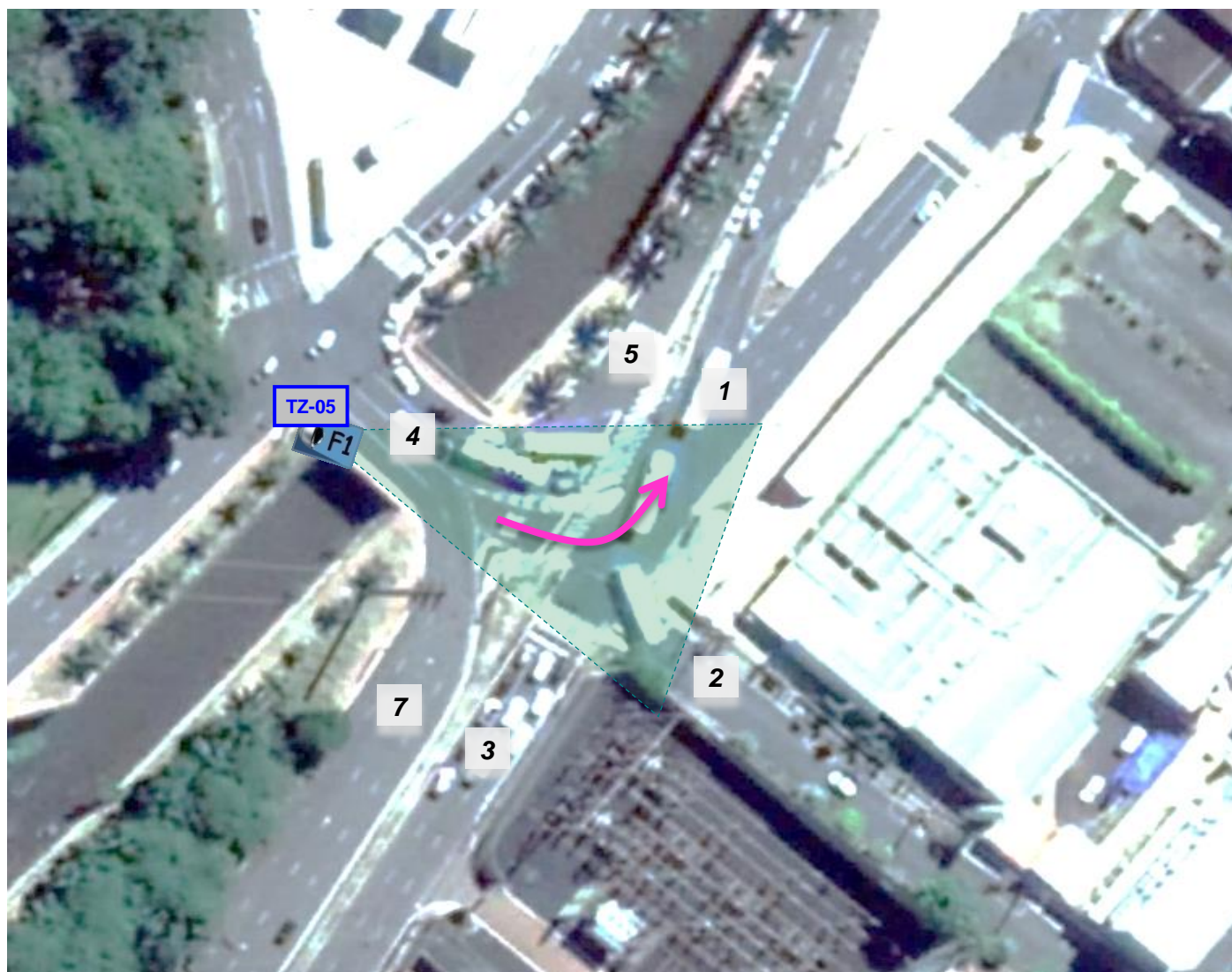
R. José Bonifácio em frente

## Fluxo veicular a cada 15 minutos

Período Manhã										Período Tarde									
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC		Período de até		Car	Moto	Truck	Bus	-	PCU	VEC	
0:00	0:15	32	19	1	2	0	48	165	54	12:00	12:15	259	130	4	7	0	348	1299	400
0:15	0:30	25	27	0	0	0	39		52	12:15	12:30	245	103	6	4	0	320		358
0:30	0:45	29	14	4	0	0	46		47	12:30	12:45	253	97	11	4	0	337		365
0:45	1:00	26	13	0	0	0	33		39	12:45	13:00	218	93	8	5	0	295		324
1:00	1:15	22	3	0	0	0	24	62	25	13:00	13:15	235	115	5	5	0	315	1420	360
1:15	1:30	11	4	0	0	0	13		15	13:15	13:30	298	114	4	5	0	375		421
1:30	1:45	10	2	0	1	0	13		13	13:30	13:45	280	103	7	3	0	355		393
1:45	2:00	11	2	0	0	0	12		13	13:45	14:00	291	97	11	4	0	375		403
2:00	2:15	7	2	0	0	0	8	44	9	14:00	14:15	278	113	5	6	0	359	1425	402
2:15	2:30	5	4	0	0	0	7		9	14:15	14:30	274	93	8	4	0	349		379
2:30	2:45	15	0	0	1	0	17		16	14:30	14:45	280	103	6	5	0	357		394
2:45	3:00	7	1	1	1	0	12		10	14:45	15:00	273	103	8	8	0	361		392
3:00	3:15	3	5	0	0	0	6	27	8	15:00	15:15	304	83	8	5	0	376	1428	400
3:15	3:30	5	2	0	1	0	8		8	15:15	15:30	285	78	13	4	0	365		380
3:30	3:45	6	0	0	0	0	6		6	15:30	15:45	250	94	12	4	0	335		360
3:45	4:00	7	1	0	0	0	8		8	15:45	16:00	271	97	10	4	0	353		382
4:00	4:15	7	1	2	1	0	15	73	11	16:00	16:15	279	100	7	2	0	351	1390	388
4:15	4:30	4	6	0	0	0	7		10	16:15	16:30	280	83	6	10	0	357		379
4:30	4:45	12	5	0	1	0	17		18	16:30	16:45	290	80	7	6	0	360		383
4:45	5:00	15	4	0	9	0	35		28	16:45	17:00	240	99	7	8	0	323		354
5:00	5:15	14	5	1	16	0	51	287	36	17:00	17:15	256	123	9	8	0	356	1497	396
5:15	5:30	22	8	0	14	0	54		44	17:15	17:30	324	92	8	4	0	398		428
5:30	5:45	36	23	2	16	0	85		77	17:30	17:45	291	133	4	6	0	380		434
5:45	6:00	54	26	1	14	0	98		95	17:45	18:00	288	92	6	7	0	363		393
6:00	6:15	62	48	3	17	0	128	928	130	18:00	18:15	311	202	2	5	0	427	1548	520
6:15	6:30	97	37	1	9	0	136		144	18:15	18:30	287	189	1	6	0	396		483
6:30	6:45	223	67	4	15	0	297		309	18:30	18:45	261	120	4	11	0	353		396
6:45	7:00	294	115	0	8	0	368		417	18:45	19:00	286	110	2	13	0	372		411
7:00	7:15	274	87	3	7	0	339	1520	371	19:00	19:15	286	101	3	4	0	352	1246	394
7:15	7:30	319	96	5	4	0	388		424	19:15	19:30	291	99	2	9	0	364		401
7:30	7:45	284	119	5	4	0	364		412	19:30	19:45	223	66	5	5	0	279		299
7:45	8:00	307	178	7	8	0	430		500	19:45	20:00	206	63	1	6	0	252		276
8:00	8:15	289	140	11	4	0	395	1456	444	20:00	20:15	187	32	1	3	0	212	703	223
8:15	8:30	263	112	10	6	0	356		391	20:15	20:30	162	43	1	3	0	192		209
8:30	8:45	287	100	5	6	0	362		398	20:30	20:45	134	32	1	3	0	159		170
8:45	9:00	278	91	5	4	0	344		378	20:45	21:00	119	31	0	3	0	141		153
9:00	9:15	293	114	9	5	0	383	1468	421	21:00	21:15	132	36	1	4	0	161	610	173
9:15	9:30	245	82	7	2	0	308		336	21:15	21:30	127	37	1	4	0	156		169
9:30	9:45	311	84	19	4	0	409		418	21:30	21:45	110	35	1	2	0	134		148
9:45	10:00	294	91	8	5	0	370		398	21:45	22:00	131	36	1	4	0	160		172
10:00	10:15	299	93	4	3	0	362	1389	399	22:00	22:15	137	57	1	5	0	178	643	200
10:15	10:30	250	90	12	4	0	333		356	22:15	22:30	152	77	0	3	0	197		232
10:30	10:45	285	89	5	3	0	348		382	22:30	22:45	108	52	1	5	0	147		166
10:45	11:00	276	80	8	5	0	346		369	22:45	23:00	89	28	2	7	0	122		126
11:00	11:15	279	85	4	3	0	338	1389	371	23:00	23:15	68	32	1	1	0	89	295	102
11:15	11:30	260	112	9	3	0	345		384	23:15	23:30	58	27	2	5	0	87		92
11:30	11:45	256	121	7	8	0	350		392	23:30	23:45	58	18	0	0	0	67		76
11:45	12:00	281	105	7	3	0	357		396	23:45	0:00	33	23	0	4	0	53		60

## Movimento Contado

4 &gt; 1 Al. Botafogo conv à esq. R. José Bonifácio



## Fluxo veicular a cada hora

Período Manhã								
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC
0:00	1:00	56	13	0	10	0	83	79
1:00	2:00	33	5	0	5	0	46	43
2:00	3:00	20	6	0	4	0	31	30
3:00	4:00	19	5	1	5	0	34	30
4:00	5:00	15	3	1	6	0	31	25
5:00	6:00	70	26	0	67	0	217	163
6:00	7:00	273	81	4	108	0	540	466
7:00	8:00	589	280	9	120	0	992	998
8:00	9:00	578	216	9	86	0	881	889
9:00	10:00	452	172	9	79	0	719	712
10:00	11:00	474	143	2	73	0	697	692
11:00	12:00	429	134	7	76	0	666	646

Período Tarde								
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC
12:00	13:00	498	166	5	83	0	760	752
13:00	14:00	514	210	8	83	0	805	815
14:00	15:00	490	166	6	82	0	752	744
15:00	16:00	457	168	6	85	0	726	716
16:00	17:00	509	165	3	103	0	805	780
17:00	18:00	576	181	3	103	0	880	863
18:00	19:00	520	167	2	95	0	799	784
19:00	20:00	368	99	0	76	0	570	543
20:00	21:00	216	46	1	52	0	346	315
21:00	22:00	193	45	2	54	0	329	294
22:00	23:00	230	41	0	51	0	353	322
23:00	0:00	86	17	0	42	0	179	145

## Movimento Contado

4 &gt; 1

Al. Botafogo conv à esq. R. José Bonifácio

## Fluxo veicular a cada 15 minutos

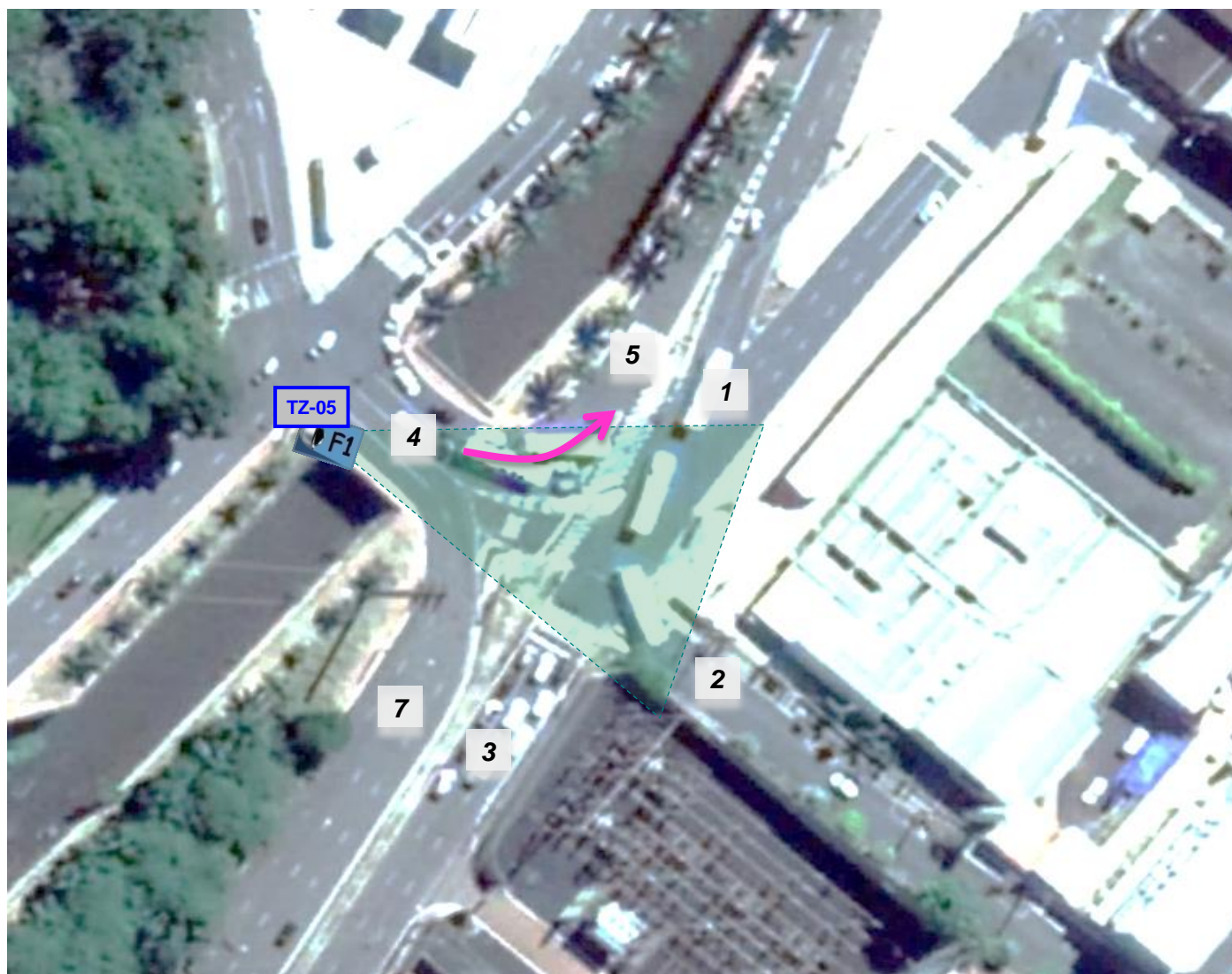
Período Manhã										Período Tarde									
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC		Período de até		Car	Moto	Truck	Bus	-	PCU	VEC	
0:00	0:15	18	6	0	10	0	41	83	34	12:00	12:15	120	39	2	20	0	185	760	181
0:15	0:30	21	3	0	0	0	23		24	12:15	12:30	131	47	1	20	0	197		199
0:30	0:45	7	3	0	0	0	9		10	12:30	12:45	120	36	1	24	0	189		181
0:45	1:00	10	1	0	0	0	11		11	12:45	13:00	127	44	1	19	0	190		191
1:00	1:15	9	2	0	4	0	18	46	15	13:00	13:15	116	48	1	22	0	187	805	187
1:15	1:30	7	1	0	0	0	8		8	13:15	13:30	139	54	3	26	0	226		222
1:30	1:45	9	2	0	0	0	10		11	13:30	13:45	107	56	2	15	0	170		180
1:45	2:00	8	0	0	1	0	10		9	13:45	14:00	152	52	2	20	0	223		226
2:00	2:15	3	1	0	0	0	4	31	4	14:00	14:15	131	46	1	19	0	195	752	197
2:15	2:30	6	4	0	4	0	16		14	14:15	14:30	121	41	3	23	0	195		188
2:30	2:45	5	1	0	0	0	6		6	14:30	14:45	115	45	1	19	0	178		180
2:45	3:00	6	0	0	0	0	6		6	14:45	15:00	123	34	1	21	0	185		179
3:00	3:15	5	0	0	1	0	7	34	6	15:00	15:15	114	35	2	18	0	173	726	169
3:15	3:30	9	3	0	0	0	11		12	15:15	15:30	126	48	0	21	0	192		195
3:30	3:45	2	0	0	4	0	10		6	15:30	15:45	118	45	3	20	0	188		186
3:45	4:00	3	2	1	0	0	7		6	15:45	16:00	99	40	1	26	0	174		166
4:00	4:15	2	0	0	0	0	2	31	2	16:00	16:15	110	46	1	21	0	178	805	178
4:15	4:30	2	2	0	1	0	5		5	16:15	16:30	133	40	0	31	0	215		204
4:30	4:45	8	1	1	1	0	13		11	16:30	16:45	120	46	0	22	0	187		188
4:45	5:00	3	0	0	4	0	11		7	16:45	17:00	146	33	2	29	0	226		210
5:00	5:15	5	4	0	13	0	33	217	22	17:00	17:15	148	36	0	25	0	216	880	209
5:15	5:30	13	5	0	11	0	38		29	17:15	17:30	136	48	3	23	0	214		210
5:30	5:45	18	4	0	20	0	60		42	17:30	17:45	150	43	0	26	0	224		219
5:45	6:00	34	13	0	23	0	87		70	17:45	18:00	142	54	0	29	0	227		225
6:00	6:15	24	10	1	24	0	80	540	59	18:00	18:15	145	52	1	25	0	224	799	223
6:15	6:30	26	12	1	29	0	93		68	18:15	18:30	118	37	0	25	0	187		180
6:30	6:45	84	18	2	30	0	158		134	18:30	18:45	119	40	0	20	0	179		179
6:45	7:00	139	41	0	25	0	210		205	18:45	19:00	138	38	1	25	0	210		202
7:00	7:15	140	57	3	34	0	244	992	234	19:00	19:15	89	28	0	24	0	151	570	141
7:15	7:30	132	41	3	31	0	222		207	19:15	19:30	104	33	0	19	0	159		156
7:30	7:45	138	80	1	26	0	233		245	19:30	19:45	92	21	0	15	0	133		128
7:45	8:00	179	102	2	29	0	293		312	19:45	20:00	83	17	0	18	0	128		118
8:00	8:15	152	60	2	24	0	235	881	238	20:00	20:15	65	13	0	13	0	98	346	91
8:15	8:30	152	44	1	22	0	221		219	20:15	20:30	49	10	1	13	0	83		73
8:30	8:45	131	53	2	21	0	205		207	20:30	20:45	56	13	0	14	0	91		83
8:45	9:00	143	59	4	19	0	221		225	20:45	21:00	46	10	0	12	0	75		68
9:00	9:15	107	38	2	19	0	169	719	166	21:00	21:15	52	15	0	15	0	90	329	82
9:15	9:30	119	35	3	20	0	184		177	21:15	21:30	60	12	1	12	0	93		85
9:30	9:45	115	54	3	20	0	190		192	21:30	21:45	41	8	1	13	0	74		63
9:45	10:00	111	45	1	20	0	176		177	21:45	22:00	40	10	0	14	0	73		64
10:00	10:15	117	39	1	18	0	175	697	175	22:00	22:15	42	9	0	10	0	67	353	61
10:15	10:30	127	37	0	18	0	182		182	22:15	22:30	76	14	0	15	0	113		105
10:30	10:45	102	28	1	16	0	151		147	22:30	22:45	60	14	0	10	0	87		84
10:45	11:00	128	39	0	21	0	190		188	22:45	23:00	52	4	0	16	0	86		72
11:00	11:15	115	35	4	17	0	177	666	171	23:00	23:15	36	6	0	14	0	67	179	56
11:15	11:30	105	29	1	20	0	162		155	23:15	23:30	15	6	0	14	0	46		35
11:30	11:45	101	31	0	15	0	147		147	23:30	23:45	21	5	0	6	0	36		32
11:45	12:00	108	39	2	24	0	181		173	23:45	0:00	14	0	0	8	0	30		22



## Movimento Contado

4 &gt; 5

Al. Botafogo conv à esq. Av. Jerônimo Gonçalves



## Fluxo veicular a cada hora

Período Manhã								
Período de	até	Car	Moto	Truck	Bus	-	PCU	VEC
0:00	1:00	25	5	0	0	0	28	30
1:00	2:00	14	4	1	3	0	25	22
2:00	3:00	14	3	0	3	0	22	20
3:00	4:00	10	1	1	3	0	19	15
4:00	5:00	14	2	1	10	0	38	27
5:00	6:00	23	6	1	25	0	79	55
6:00	7:00	67	31	2	8	0	104	108
7:00	8:00	99	47	2	2	0	132	150
8:00	9:00	132	42	3	0	0	161	177
9:00	10:00	121	39	9	2	0	167	171
10:00	11:00	117	38	5	1	0	151	161
11:00	12:00	132	39	7	2	0	173	180

Período Tarde								
Período de	até	Car	Moto	Truck	Bus	-	PCU	VEC
12:00	13:00	131	30	6	3	0	167	170
13:00	14:00	119	39	5	1	0	153	164
14:00	15:00	122	38	7	4	0	167	171
15:00	16:00	114	35	4	7	0	156	160
16:00	17:00	119	39	3	8	0	162	169
17:00	18:00	115	27	4	4	0	147	150
18:00	19:00	116	51	2	0	0	147	169
19:00	20:00	90	31	1	2	0	112	124
20:00	21:00	88	17	0	2	0	101	107
21:00	22:00	72	23	2	1	0	91	98
22:00	23:00	72	14	1	0	0	82	87
23:00	0:00	34	13	0	2	0	45	49



## Movimento Contado

4 &gt; 5

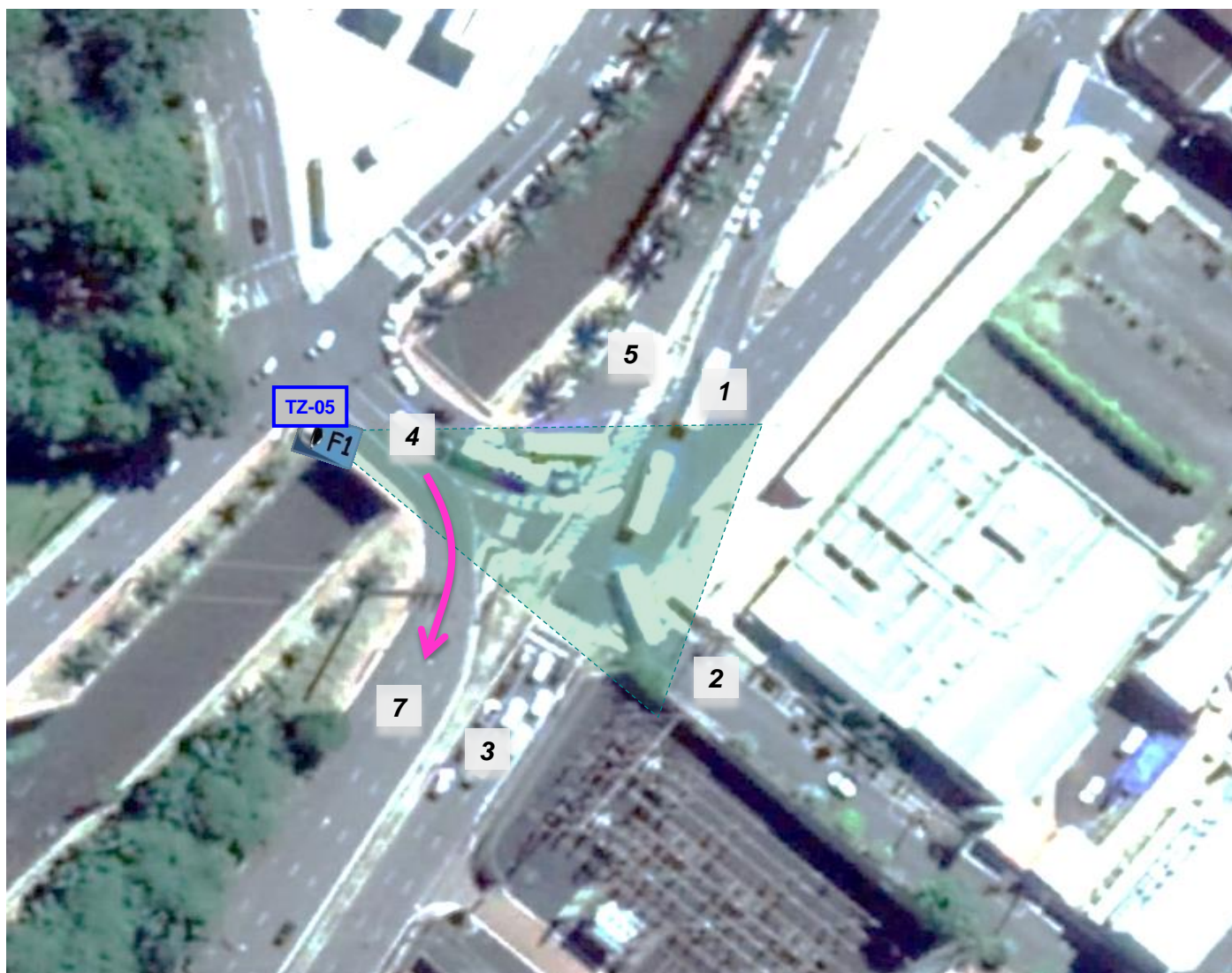
Al. Botafogo conv à esq. Av. Jerônimo Gonçalves

## Fluxo veicular a cada 15 minutos

Período Manhã										Período Tarde									
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC		Período de até		Car	Moto	Truck	Bus	-	PCU	VEC	
0:00	0:15	8	2	0	0	0	9	28	10	167	12:00	12:15	31	10	1	0	0	39	42
0:15	0:30	6	3	0	0	0	8		9		12:15	12:30	38	7	1	2	0	48	48
0:30	0:45	7	0	0	0	0	7		7		12:30	12:45	26	6	2	1	0	36	35
0:45	1:00	4	0	0	0	0	4		4		12:45	13:00	36	7	2	0	0	45	45
1:00	1:15	5	2	1	3	0	15	25	11	153	13:00	13:15	27	10	1	0	0	35	38
1:15	1:30	5	0	0	0	0	5		5		13:15	13:30	28	6	2	0	0	36	36
1:30	1:45	1	2	0	0	0	2		3		13:30	13:45	36	9	1	1	0	45	47
1:45	2:00	3	0	0	0	0	3		3		13:45	14:00	28	14	1	0	0	38	43
2:00	2:15	2	0	0	0	0	2	22	2	167	14:00	14:15	29	14	1	1	0	41	45
2:15	2:30	3	1	0	3	0	10		7		14:15	14:30	31	8	3	0	0	43	42
2:30	2:45	2	1	0	0	0	3		3		14:30	14:45	34	11	1	0	0	42	46
2:45	3:00	7	1	0	0	0	8		8		14:45	15:00	28	5	2	3	0	42	38
3:00	3:15	3	0	0	0	0	3	19	3	156	15:00	15:15	38	9	2	2	0	52	51
3:15	3:30	2	1	0	0	0	3		3		15:15	15:30	30	8	1	1	0	39	40
3:30	3:45	3	0	1	3	0	12		7		15:30	15:45	21	9	1	2	0	32	33
3:45	4:00	2	0	0	0	0	2		2		15:45	16:00	25	9	0	2	0	34	36
4:00	4:15	6	0	0	0	0	6	38	6	162	16:00	16:15	24	11	0	4	0	38	39
4:15	4:30	1	0	0	2	0	5		3		16:15	16:30	28	8	0	1	0	34	37
4:30	4:45	3	2	0	1	0	6		6		16:30	16:45	29	9	0	2	0	38	40
4:45	5:00	4	0	1	7	0	21		12		16:45	17:00	38	11	3	1	0	53	53
5:00	5:15	4	1	0	7	0	19	79	12	147	17:00	17:15	31	7	0	0	0	35	38
5:15	5:30	4	3	0	7	0	20		14		17:15	17:30	24	2	1	1	0	30	28
5:30	5:45	3	1	0	8	0	20		12		17:30	17:45	23	8	1	3	0	36	35
5:45	6:00	12	1	1	3	0	21		17		17:45	18:00	37	10	2	0	0	47	49
6:00	6:15	11	1	1	2	0	18	104	15	147	18:00	18:15	28	15	0	0	0	36	43
6:15	6:30	13	6	0	4	0	24		23		18:15	18:30	38	14	0	0	0	45	52
6:30	6:45	20	9	1	2	0	31		32		18:30	18:45	25	10	2	0	0	35	37
6:45	7:00	23	15	0	0	0	31		38		18:45	19:00	25	12	0	0	0	31	37
7:00	7:15	21	14	1	1	0	33	132	37	112	19:00	19:15	26	8	0	0	0	30	34
7:15	7:30	25	7	0	1	0	31		33		19:15	19:30	24	13	0	0	0	31	37
7:30	7:45	32	13	1	0	0	41		46		19:30	19:45	25	9	0	2	0	34	36
7:45	8:00	21	13	0	0	0	28		34		19:45	20:00	15	1	1	0	0	18	17
8:00	8:15	32	9	0	0	0	37	161	41	101	20:00	20:15	32	3	0	1	0	36	36
8:15	8:30	34	6	1	0	0	40		41		20:15	20:30	18	5	0	0	0	21	23
8:30	8:45	44	14	1	0	0	54		59		20:30	20:45	16	4	0	0	0	18	20
8:45	9:00	22	13	1	0	0	31		36		20:45	21:00	22	5	0	1	0	27	28
9:00	9:15	29	12	1	0	0	38	167	42	91	21:00	21:15	20	4	0	1	0	24	25
9:15	9:30	28	8	3	0	0	40		39		21:15	21:30	16	6	1	0	0	22	23
9:30	9:45	31	9	2	2	0	45		44		21:30	21:45	13	7	1	0	0	19	21
9:45	10:00	33	10	3	0	0	46		46		21:45	22:00	23	6	0	0	0	26	29
10:00	10:15	30	16	3	0	0	46	151	49	82	22:00	22:15	16	4	1	0	0	21	21
10:15	10:30	33	8	0	0	0	37		41		22:15	22:30	18	6	0	0	0	21	24
10:30	10:45	28	4	2	0	0	35		34		22:30	22:45	22	2	0	0	0	23	24
10:45	11:00	26	10	0	1	0	33		37		22:45	23:00	16	2	0	0	0	17	18
11:00	11:15	39	9	4	1	0	56	173	53	45	23:00	23:15	10	2	0	0	0	11	12
11:15	11:30	28	11	1	1	0	38		41		23:15	23:30	8	6	0	1	0	13	15
11:30	11:45	30	11	0	0	0	36		41		23:30	23:45	7	4	0	0	0	9	11
11:45	12:00	35	8	2	0	0	44		45		23:45	0:00	9	1	0	1	0	12	11

## Movimento Contado

4 &gt; 7 Al. Botafogo conv à dir. R. Felipe Camarão



## Fluxo veicular a cada hora

Período Manhã								
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC
0:00	1:00	80	15	0	9	0	106	104
1:00	2:00	36	3	2	0	0	43	41
2:00	3:00	29	2	0	0	0	30	31
3:00	4:00	14	4	0	0	0	16	18
4:00	5:00	13	6	0	0	0	16	19
5:00	6:00	87	48	0	3	0	117	138
6:00	7:00	553	170	2	4	0	651	729
7:00	8:00	909	366	6	6	0	1119	1287
8:00	9:00	778	277	9	7	0	953	1071
9:00	10:00	628	191	12	1	0	756	832
10:00	11:00	515	146	13	0	0	621	674
11:00	12:00	520	170	4	1	0	617	695

Período Tarde								
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC
12:00	13:00	654	202	3	3	0	769	862
13:00	14:00	714	220	7	5	0	852	946
14:00	15:00	694	196	5	4	0	813	899
15:00	16:00	673	162	6	3	0	775	844
16:00	17:00	679	169	8	2	0	788	858
17:00	18:00	773	164	3	0	0	863	940
18:00	19:00	770	208	2	6	0	891	986
19:00	20:00	513	141	2	4	0	597	660
20:00	21:00	343	71	1	4	0	389	419
21:00	22:00	275	65	0	1	0	310	341
22:00	23:00	230	32	2	2	0	255	266
23:00	0:00	100	30	0	2	0	119	132

## Movimento Contado

4 &gt; 7

Al. Botafogo conv à dir. R. Felipe Camarão

## Fluxo veicular a cada 15 minutos

Período Manhã										Período Tarde									
Período de até		Car	Moto	Truck	Bus	-	PCU	VEC		Período de até		Car	Moto	Truck	Bus	-	PCU	VEC	
0:00	0:15	25	7	0	1	0	31	106	33	12:00	12:15	167	44	0	0	0	189	769	211
0:15	0:30	24	4	0	2	0	30		30	12:15	12:30	155	47	1	1	0	183		204
0:30	0:45	18	1	0	3	0	25		22	12:30	12:45	172	51	1	0	0	200		224
0:45	1:00	13	3	0	3	0	21		19	12:45	13:00	160	60	1	2	0	197		223
1:00	1:15	11	0	0	0	0	11	43	11	13:00	13:15	190	44	2	2	0	221	852	238
1:15	1:30	6	2	1	0	0	10		9	13:15	13:30	160	61	1	1	0	195		223
1:30	1:45	11	0	0	0	0	11		11	13:30	13:45	179	47	2	1	0	210		229
1:45	2:00	8	1	1	0	0	11		10	13:45	14:00	185	68	2	1	0	226		256
2:00	2:15	6	0	0	0	0	6	30	6	14:00	14:15	172	45	2	1	0	202	813	220
2:15	2:30	14	0	0	0	0	14		14	14:15	14:30	176	62	1	0	0	210		239
2:30	2:45	4	2	0	0	0	5		6	14:30	14:45	165	51	0	0	0	191		216
2:45	3:00	5	0	0	0	0	5		5	14:45	15:00	181	38	2	3	0	211		224
3:00	3:15	3	1	0	0	0	4	16	4	15:00	15:15	164	41	0	0	0	185	775	205
3:15	3:30	3	2	0	0	0	4		5	15:15	15:30	150	38	1	1	0	174		190
3:30	3:45	4	0	0	0	0	4		4	15:30	15:45	167	37	3	1	0	195		208
3:45	4:00	4	1	0	0	0	5		5	15:45	16:00	192	46	2	1	0	222		241
4:00	4:15	4	0	0	0	0	4	16	4	16:00	16:15	172	35	2	1	0	197	788	210
4:15	4:30	3	2	0	0	0	4		5	16:15	16:30	158	44	3	1	0	190		206
4:30	4:45	2	2	0	0	0	3		4	16:30	16:45	169	45	2	0	0	197		216
4:45	5:00	4	2	0	0	0	5		6	16:45	17:00	180	45	1	0	0	205		226
5:00	5:15	7	4	0	0	0	9	117	11	17:00	17:15	193	39	2	0	0	218	863	234
5:15	5:30	11	2	0	2	0	16		15	17:15	17:30	206	35	1	0	0	226		242
5:30	5:45	18	13	0	0	0	25		31	17:30	17:45	182	46	0	0	0	205		228
5:45	6:00	51	29	0	1	0	68		81	17:45	18:00	192	44	0	0	0	214		236
6:00	6:15	44	18	1	0	0	56	651	63	18:00	18:15	198	46	1	1	0	226	891	246
6:15	6:30	80	44	1	1	0	107		126	18:15	18:30	205	42	0	0	0	226		247
6:30	6:45	189	39	0	3	0	215		231	18:30	18:45	185	53	1	2	0	218		241
6:45	7:00	240	69	0	0	0	275		309	18:45	19:00	182	67	0	3	0	222		252
7:00	7:15	234	60	1	3	0	273	1119	298	19:00	19:15	153	46	0	1	0	178	597	200
7:15	7:30	232	74	2	1	0	276		309	19:15	19:30	133	33	0	1	0	152		167
7:30	7:45	231	110	3	1	0	296		345	19:30	19:45	113	18	0	0	0	122		131
7:45	8:00	212	122	0	1	0	275		335	19:45	20:00	114	44	2	2	0	145		162
8:00	8:15	202	85	3	1	0	254	953	291	20:00	20:15	86	15	1	2	0	100	389	104
8:15	8:30	186	62	1	3	0	226		252	20:15	20:30	82	16	0	1	0	92		99
8:30	8:45	207	63	4	0	0	249		274	20:30	20:45	88	20	0	1	0	100		109
8:45	9:00	183	67	1	3	0	225		254	20:45	21:00	87	20	0	0	0	97		107
9:00	9:15	142	50	4	0	0	177	756	196	21:00	21:15	78	19	0	0	0	88	310	97
9:15	9:30	156	41	1	0	0	179		198	21:15	21:30	59	12	0	0	0	65		71
9:30	9:45	173	48	2	1	0	204		224	21:30	21:45	57	14	0	1	0	66		72
9:45	10:00	157	52	5	0	0	196		214	21:45	22:00	81	20	0	0	0	91		101
10:00	10:15	141	30	3	0	0	164	621	174	22:00	22:15	58	11	0	0	0	64	255	69
10:15	10:30	147	37	8	0	0	186		192	22:15	22:30	68	10	0	0	0	73		78
10:30	10:45	116	39	1	0	0	138		156	22:30	22:45	61	9	2	1	0	73		73
10:45	11:00	111	40	1	0	0	134		152	22:45	23:00	43	2	0	1	0	46		46
11:00	11:15	127	40	2	0	0	152	617	169	23:00	23:15	34	10	0	0	0	39	119	44
11:15	11:30	111	44	2	0	0	138		157	23:15	23:30	31	8	0	0	0	35		39
11:30	11:45	132	43	0	1	0	156		176	23:30	23:45	22	6	0	0	0	25		28
11:45	12:00	150	43	0	0	0	172		193	23:45	0:00	13	6	0	2	0	20		21