



# TRANSPORT AND TRAFFIC PLANNING ASSOCIATES

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20 March 2018  
Ref: 71/2018

Mr David Duffy  
Director  
Akalán Projects Pty Ltd

E: [dduffy@akalan.com.au](mailto:dduffy@akalan.com.au)

Dear Mr Duffy

## St George Specialist Centre Proposed Pedestrian Bridge

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I respond to your request to provide an assessment in relation to the proposal to construct a pedestrian bridge over South Street to link between the existing St George Private Hospital and the proposed Specialist Centre development.

There is a pedestrian refuge island in South Street at the entrance to St George Private Hospital which currently provides for pedestrian crossing movements to/from the hospital, the railway station/bus interchange, town centre and the hospital parking facilities located just to the north of South Street.

The pedestrian refuge island and the surrounding road circumstances are shown on the aerial images provided in Appendix A including the proximity of the island to the Princes Highway intersection and the queuing of cars across the pedestrian crossing point. The difficulty that pedestrians experience crossing at this location has been the subject of consideration by Council and RMS in the past. However RMS would not agree to the provision of a marked footcrossing due to the proximity to the Princes Highway intersection and the multiple traffic lanes (i.e. marked footcrossings can only be approved where there is just one traffic lane in each direction) and the queuing circumstances.

The results of traffic surveys at the location are provided in Appendix B (albeit undertaken some years ago) showing:

- Peak pedestrian crossing movements of up to 159 pph

..... / cont'

- Peak vehicle movements of:

AM	PM
523	465

- Constant queue lengths extending across the pedestrian crossing area

Pedestrian crossing movements have increased since the time of these surveys due to:

- The increase in activities at the hospital
- The increased provision for hospital parking in the new multi-level carpark on Hogben Street

The proposed new Specialist Centre on the northern side of South Street will act to further increase the pedestrian crossing movements due to the significant “interaction” between the hospital and the specialist centre. The heightened circumstances in relation to pedestrian safety and convenience include:

- The intended (necessary) use of the existing hospital ‘set-down/pick-up’ facility for dual use by the Specialist Centre (i.e. heightening the number of crossings). There is a NO STOPPING restriction on the South Street site frontage for the Specialist Centre site which will present set-down/pick-up activities
- It will not be realistic or safe for wheel chairs or incapacitated trolley patients to cross the roadway
- The increased volume of pedestrian movements related to staff, patients and visitors

There is no available “alternative treatment” to improve the at-grade pedestrian crossing circumstances particularly as RMS will not agree to the provision of a traffic signal-controlled pedestrian crossing (the RMS Design Guidelines specify a minimum separation between traffic signals of 130m).

It is quite apparent that the provision of the proposed pedestrian bridge provides the only realistic and practical solution to the pedestrian crossing problem.

Yours faithfully



Ross Nettle  
Director  
Transport and Traffic Planning Associates





**APPENDIX A**  
**AERIAL IMAGES**

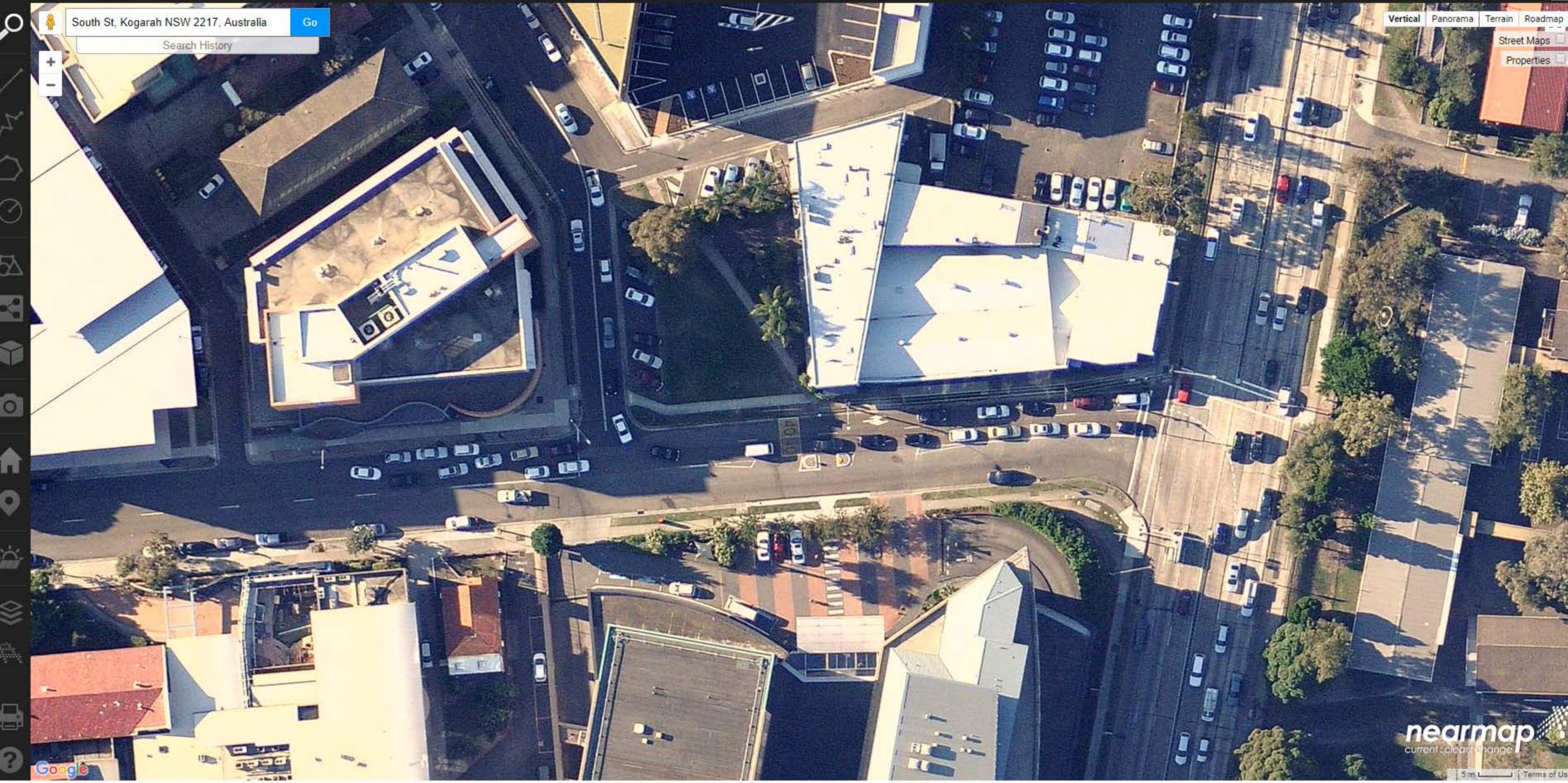
South St, Kogarah NSW 2217, Australia [Go](#)

Search History

Vertical Panorama Terrain Roadmap

Street Maps

Properties

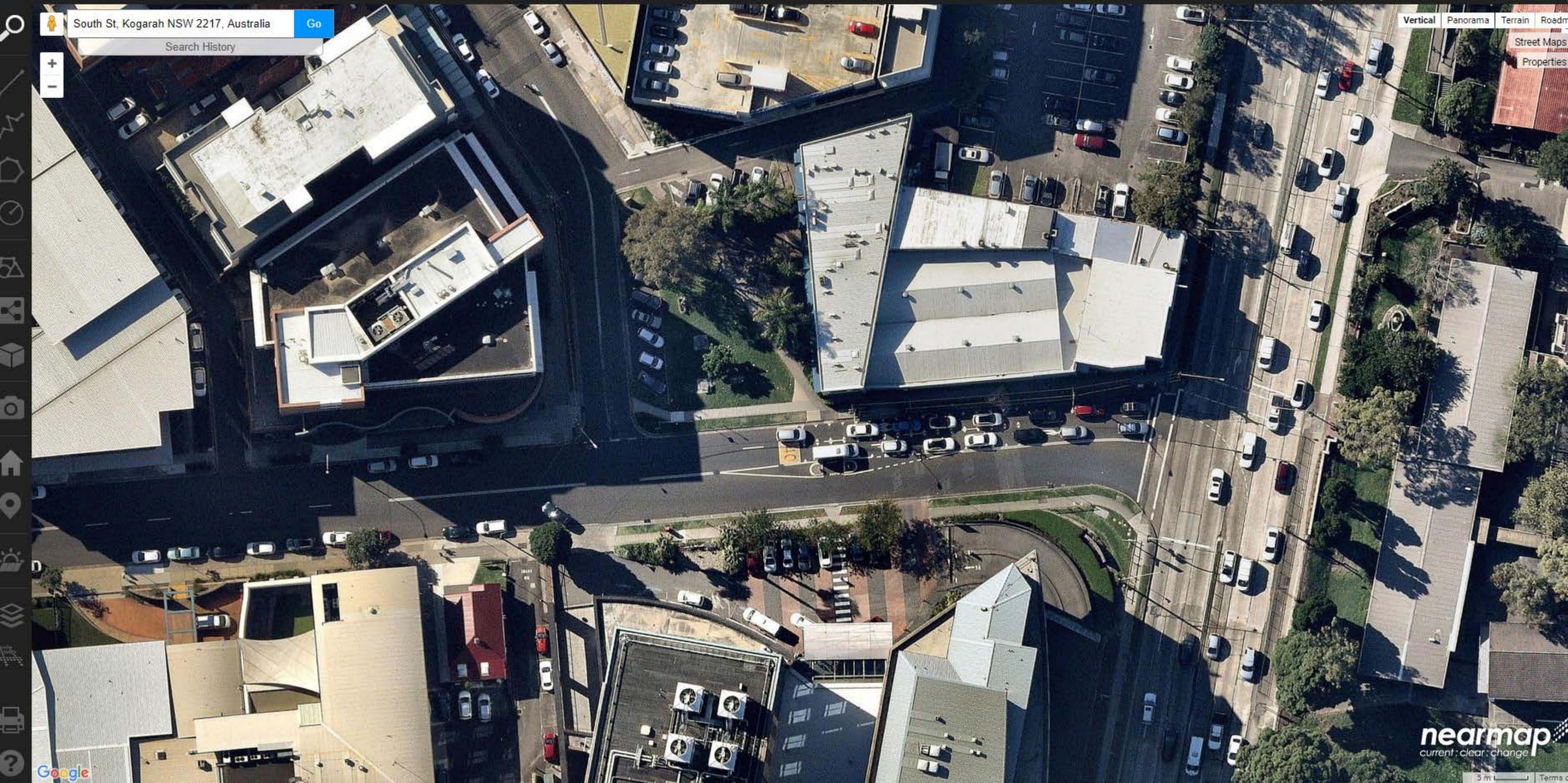


South St, Kogarah NSW 2217, Australia

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Search History

Vertical Panorama Terrain Roadmap Street Maps Properties



South St, Kogarah NSW 2217, Australia

Go

Search History

Vertical Panorama Terrain Roadmap

Street Maps

Properties



**APPENDIX B**  
**TRAFFIC SURVEYS**



# R.O.A.R. DATA

*Reliable, Original & Authentic Results*

Ph.88196847, Fax 88196849, Mob.0418-239019

Client : T.T.P.A  
Job No/Name : 2123 KOGARAH South St  
Day/Date : Thursday 31st January 2008

### Peds

Time Per	South St	
	Crossing	TOTAL
0630 - 0645	4	4
0645 - 0700	13	13
0700 - 0715	11	11
0715 - 0730	8	8
0730 - 0745	19	19
0745 - 0800	17	17
0800 - 0815	21	21
0815 - 0830	29	29
0830 - 0845	28	28
0845 - 0900	31	31
<b>Period End</b>	<b>181</b>	<b>181</b>

### Peds

Time Per	South St	
	Crossing	TOTAL
1500 - 1515	50	50
1515 - 1530	32	32
1530 - 1545	40	40
1545 - 1600	43	43
1600 - 1615	37	37
1615 - 1630	39	39
1630 - 1645	36	36
1645 - 1700	30	30
1700 - 1715	33	33
1715 - 1730	34	34
1730 - 1745	33	33
1745 - 1800	24	24
<b>Period End</b>	<b>431</b>	<b>431</b>

Peak Per	South St	
	Crossing	TOTAL
0630 - 0730	36	36
0645 - 0745	51	51
0700 - 0800	55	55
0715 - 0815	65	65
0730 - 0830	86	86
0745 - 0845	95	95
0800 - 0900	109	109

Peak Per	South St	
	Crossing	TOTAL
1500 - 1600	165	165
1515 - 1615	152	152
1530 - 1630	159	159
1545 - 1645	155	155
1600 - 1700	142	142
1615 - 1715	138	138
1630 - 1730	133	133
1645 - 1745	130	130
1700 - 1800	124	124

<b>PEAK HR</b>	<b>109</b>	<b>109</b>
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<b>PEAK HR</b>	<b>165</b>	<b>165</b>
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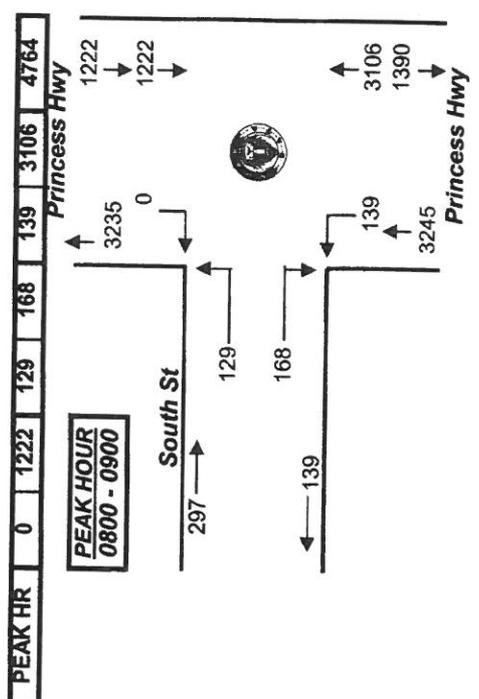


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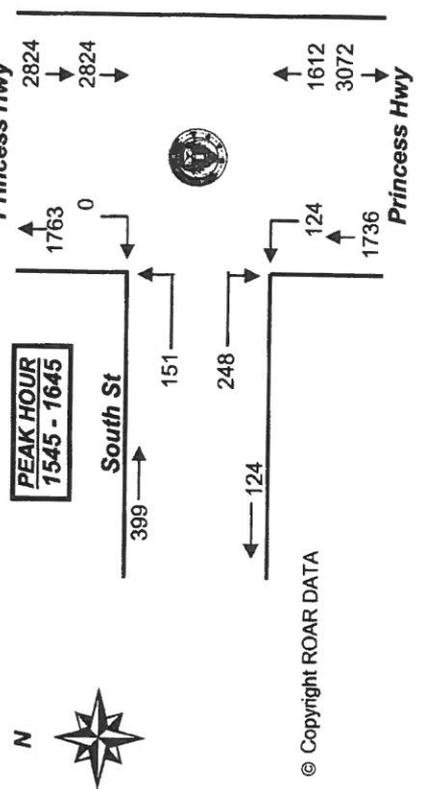
All Vehicles	NORTH			WEST			SOUTH			TOTAL
	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	
Time Per	R	I	L	R	I	L	R	I	L	I
0630 - 0645	0	161	12	11	9	842	1035			
0645 - 0700	0	201	15	9	23	849	1097			
0700 - 0715	0	234	20	12	25	895	1186			
0715 - 0730	0	232	27	27	32	833	1151			
0730 - 0745	0	223	32	29	16	796	1096			
0745 - 0800	0	241	39	28	13	737	1058			
0800 - 0815	0	313	41	28	29	818	1229			
0815 - 0830	0	312	33	57	33	708	1143			
0830 - 0845	0	301	23	47	39	711	1121			
0845 - 0900	0	296	32	36	38	869	1271			
Period End	0	2514	274	284	257	8058	11387			

All Vehicles	NORTH			WEST			SOUTH			TOTAL
	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	
Time Per	R	I	L	R	I	L	R	I	L	I
0630 - 0730	0	828	74	59	89	3419	4469			
0645 - 0745	0	890	94	77	96	3373	4530			
0700 - 0800	0	930	118	96	86	3261	4491			
0715 - 0815	0	1009	139	112	90	3184	4534			
0730 - 0830	0	1089	145	142	91	3059	4526			
0745 - 0845	0	1167	136	160	114	2974	4551			
0800 - 0900	0	1222	129	168	139	3106	4764			
Period End	0	1222	129	168	139	3106	4764			



All Vehicles	NORTH			WEST			SOUTH			TOTAL
	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	
Time Per	R	I	L	R	I	L	R	I	L	I
1500 - 1515	0	545	26	45	32	427	1075			
1515 - 1530	0	633	32	64	35	381	1145			
1530 - 1545	0	744	49	51	25	365	1234			
1545 - 1600	0	707	43	49	34	385	1218			
1600 - 1615	0	726	47	65	39	410	1287			
1615 - 1630	0	675	30	56	26	390	1177			
1630 - 1645	0	716	31	78	25	427	1277			
1645 - 1700	0	691	44	58	29	372	1194			
1700 - 1715	0	610	40	81	22	435	1188			
1715 - 1730	0	507	37	71	26	410	1051			
1730 - 1745	0	709	36	62	31	445	1283			
1745 - 1800	0	714	44	74	15	360	1207			
Period End	0	7977	459	754	339	4807	14336			

All Vehicles	NORTH			WEST			SOUTH			TOTAL
	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	Princess Hwy	South St	Princess Hwy	
Time Per	R	I	L	R	I	L	R	I	L	I
1500 - 1600	0	2629	150	209	126	1558	4672			
1515 - 1615	0	2810	171	229	133	1541	4884			
1530 - 1630	0	2852	169	221	124	1550	4916			
1545 - 1645	0	2824	151	248	124	1612	4959			
1600 - 1700	0	2808	152	257	119	1599	4935			
1615 - 1715	0	2692	145	273	102	1624	4836			
1630 - 1730	0	2524	152	288	102	1644	4710			
1645 - 1745	0	2517	157	272	108	1662	4716			
1700 - 1800	0	2540	157	288	94	1650	4729			
Period End	0	2824	151	248	124	1612	4959			



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 Job No/Name : 2123 KOGARAH South St  
 Day/Date : Thursday 31st January 2008

**X not all vehicles getting through**

1730 - 1745

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33			
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**X not all vehicles getting through**

Time/Lane Phase

0630 - 0645

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0645 - 0700

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0700 - 0715

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0715 - 0730

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