

MOVEMENT SUMMARY

Site: 2020 PM peak 3.15 pm to 4.15 pm with development

Pacific Hwy / Masonite Road roundabout
2020 PM peak (3.15 pm to 4.15 pm) with development
Roundabout

Movement Performance - Vehicles											
Mov ID	Turn	Demand Flow veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Back of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South: Masonite Road											
1	L	325	7.5	0.513	9.7	LOS A	4.4	32.8	0.81	0.82	39.9
2	T	339	7.5	0.513	10.5	LOS A	4.4	32.8	0.81	0.86	39.7
3	R	181	7.5	0.513	20.5	LOS B	3.9	29.3	0.82	1.04	35.1
Approach		845	7.5	0.513	12.3	LOS B	4.4	32.8	0.81	0.88	38.5
East: Pacific Highway NE											
4	L	80	7.5	0.385	7.2	LOS A	3.1	22.9	0.70	0.55	54.1
5	T	632	7.5	0.385	7.2	LOS A	3.1	22.9	0.70	0.56	53.6
6	R	58	7.5	0.384	16.4	LOS B	2.8	21.0	0.71	0.95	50.8
Approach		770	7.5	0.385	7.9	LOS B	3.1	22.9	0.70	0.59	53.4
North: Adelaide Street											
7	L	73	7.5	0.624	16.6	LOS B	7.6	56.3	1.00	1.12	31.5
8	T	74	7.5	0.622	16.4	LOS B	7.6	56.3	1.00	1.12	32.8
9	R	501	7.5	0.622	27.0	LOS B	7.6	56.3	1.00	1.12	29.7
Approach		648	7.5	0.623	24.6	LOS B	7.6	56.3	1.00	1.12	30.1
West: Pacific Highway SW											
10	L	898	7.5	0.973	26.5	LOS B	31.8	237.0	1.00	1.56	39.2
11	T	1103	7.5	0.973	30.5	LOS C	31.8	237.0	1.00	1.63	37.3
12	R	33	7.5	0.971	40.5	LOS C	29.2	217.3	1.00	1.66	35.5
Approach		2034	7.5	0.973	28.9	LOS C	31.8	237.0	1.00	1.60	38.1
All Vehicles		4297	7.5	0.973	21.2	LOS B	31.8	237.0	0.91	1.20	39.6

Level of Service (Aver. Int. Delay): LOS B. Based on average delay for all vehicle movements. LOS Method: Delay (RTA NSW).

Level of Service (Worst Movement): LOS C. LOS Method for individual vehicle movements: Delay (RTA NSW).

Approach LOS values are based on the worst delay for any vehicle movement.

Roundabout Capacity Model: SIDRA Standard.

Design Life Analysis Objective: Final Year. (Results for 10 years)