

Organisation: PARKING AND TRAFFIC CONSULTANTS | Processed: Monday, 8 October 2018 10:06:37 AM
Project: Z:\PCI - PROJECT WORK FILES\NSWFAIRFIELD CITY COUNCIL - MDCP HUGHES STREET CABRAMATTA\3. DA\3. Modelling & Surveys\SIDRA MODELING\SAT EXISTING MORNING PEAK - SC.sip8

MOVEMENT SUMMARY

Site: 102 [Site 2 - Hughes St and Dutton Ln West Proposed Peak] Network: N101 [PROPOSED PEAK NETWORK]

Site 2 - Hughes St and Dutton Ln West Proposed Peak

Site Category: (None)

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Vehicles	Back of Queue Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	m				km/h
South: Dutton Ln														
1	L2	439	0.2	439	0.2	0.330	4.8	LOS A	0.6	4.5	0.36	0.59	0.36	26.2
Approach		439	0.2	439	0.2	0.330	4.8	LOS A	0.6	4.5	0.36	0.59	0.36	26.2
East: Hughes St														
5	T1	204	0.5	204	0.5	0.108	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		204	0.5	204	0.5	0.108	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Hughes St														
11	T1	803	1.0	803	1.0	0.218	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		803	1.0	803	1.0	0.218	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		1446	0.7	1446	0.7	0.330	1.5	NA	0.6	4.5	0.11	0.18	0.11	42.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

▼ Site: 103 [Site 3 - Hughes St and Dutton Ln East Proposed Peak]
 📍 Network: N101 [PROPOSED PEAK NETWORK]

Site 3 - Hughes St and Dutton Ln East Proposed Peak

Site Category: (None)

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Vehicles	Back of Queue Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	m				km/h
East: Hughes St														
4	L2	284	1.9	284	1.9	0.155	3.4	LOS A	0.0	0.0	0.00	0.45	0.00	32.6
5	T1	166	0.0	166	0.0	0.085	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
Approach		451	1.2	451	1.2	0.155	2.2	NA	0.0	0.0	0.00	0.29	0.00	34.9
West: Hughes St														
11	T1	417	1.5	417	1.5	0.619	2.2	LOS A	3.3	23.2	0.30	0.32	0.47	24.7
12	R2	521	0.8	521	0.8	0.619	9.2	LOS A	3.3	23.2	0.71	0.74	1.11	16.0
Approach		938	1.1	938	1.1	0.619	6.1	NA	3.3	23.2	0.53	0.55	0.82	19.0
All Vehicles		1388	1.1	1388	1.1	0.619	4.8	NA	3.3	23.2	0.36	0.47	0.56	25.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

 Site: 104 [Site 4 - Hughes St and Park Rd Proposed Peak]  Network: N101 [PROPOSED PEAK NETWORK]

Site 4 - Hughes St and Park Rd Sat Proposed Peak

Site Category: (None)

Signals - Fixed Time Isolated Cycle Time = 40 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance m				
East: Hughes St														
4	L2	48	0.0	48	0.0	0.196	15.1	LOS B	1.0	7.3	0.78	0.66	0.78	25.5
5	T1	276	1.5	276	1.5	0.744	15.9	LOS B	3.3	23.7	0.89	0.87	1.10	17.9
6	R2	59	0.0	59	0.0	0.744	20.6	LOS B	3.3	23.7	0.92	0.93	1.19	24.6
Approach		383	1.1	383	1.1	0.744	16.5	LOS B	3.3	23.7	0.88	0.85	1.07	20.3
North: Park Rd														
7	L2	102	0.0	102	0.0	0.137	11.8	LOS A	0.8	5.6	0.67	0.68	0.67	28.4
8	T1	80	0.0	80	0.0	0.367	9.4	LOS A	2.4	16.9	0.74	0.71	0.74	27.1
9	R2	195	1.1	195	1.1	0.367	12.8	LOS A	2.4	16.9	0.74	0.71	0.74	22.9
Approach		377	0.6	377	0.6	0.367	11.8	LOS A	2.4	16.9	0.72	0.70	0.72	25.7
West: Hughes St														
10	L2	147	0.7	147	0.7	0.266	15.4	LOS B	1.4	9.9	0.80	0.73	0.80	26.4
11	T1	231	2.7	231	2.7	0.812	20.3	LOS B	4.8	34.0	0.99	1.08	1.38	22.3
12	R2	111	0.0	111	0.0	0.812	23.9	LOS B	4.8	34.0	0.99	1.08	1.38	20.9
Approach		488	1.5	488	1.5	0.812	19.6	LOS B	4.8	34.0	0.93	0.98	1.21	23.2
All Vehicles		1248	1.1	1248	1.1	0.812	16.3	LOS B	4.8	34.0	0.85	0.85	1.02	23.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow	Average Delay	Level of Service	Average Back of Queue	Prop. Queued	Effective Stop Rate		
		ped/h	sec		Pedestrian			Distance	
					ped			m	
P1	South Full Crossing	335	14.7	LOS B	0.3	0.3	0.86	0.86	
P2	East Full Crossing	393	14.7	LOS B	0.4	0.4	0.86	0.86	
P3	North Full Crossing	47	14.5	LOS B	0.0	0.0	0.85	0.85	
P4	West Full Crossing	158	14.5	LOS B	0.2	0.2	0.86	0.86	
All Pedestrians		933	14.6	LOS B			0.86	0.86	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 105 [Site 5 - Dutton Ln Left Turn Only Proposed Peak] Network: N101 [PROPOSED PEAK NETWORK]

Site 5 - Dutton Ln Left Turn Only Proposed Peak
 Site Category: (None)
 Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Queue Vehicles veh	Back of Queue Distance m	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %									
North: Dutton Ln														
7	L2	102	7.2	102	7.2	0.140	3.9	LOS A	0.0	0.0	0.00	0.22	0.00	38.2
8	T1	640	0.3	640	0.3	0.140	0.0	LOS A	0.0	0.0	0.00	0.10	0.00	52.3
9	R2	63	0.0	63	0.0	0.140	4.0	LOS A	0.0	0.0	0.00	0.15	0.00	54.2
Approach		805	1.2	805	1.2	0.140	0.8	NA	0.0	0.0	0.00	0.12	0.00	50.0
All Vehicles		805	1.2	805	1.2	0.140	0.8	NA	0.0	0.0	0.00	0.12	0.00	50.0

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

▼ Site: 106 [Site 6 - Hill St and Car Park West Exit Proposed Peak]

Network: N101 [PROPOSED PEAK NETWORK]

Site 6 - Hill St and Car Park West Exit Proposed Peak
 Site Category: (None)
 Giveway / Yield (Two-Way)

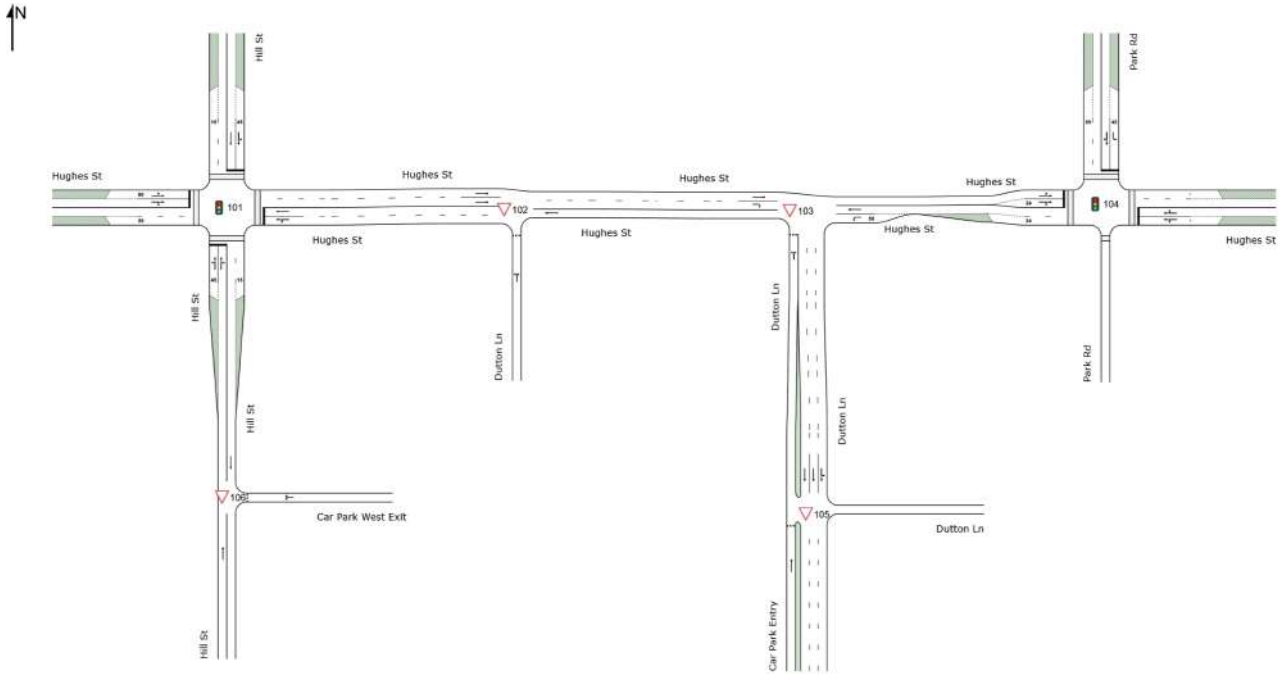
Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles veh	Distance m			km/h	
South: Hill St														
2	T1	448	0.0	448	0.0	0.301	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Approach		448	0.0	448	0.0	0.301	0.0	NA	0.0	0.0	0.00	0.00	0.00	59.9
East: Car Park West Exit														
4	L2	121	1.7	121	1.7	0.521	7.7	LOS A	1.1	7.8	0.58	0.89	0.90	23.5
6	R2	188	3.4	188	3.4	0.521	11.7	LOS A	1.1	7.8	0.58	0.89	0.90	16.2
Approach		309	2.7	309	2.7	0.521	10.1	LOS A	1.1	7.8	0.58	0.89	0.90	19.8
North: Hill St														
8	T1	411	0.5	411	0.5	0.211	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		411	0.5	411	0.5	0.211	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		1168	0.9	1168	0.9	0.521	2.7	NA	1.1	7.8	0.15	0.23	0.24	41.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

NETWORK LAYOUT

Network: N101 [TUESDAY EXISTING AM PEAK]

TUESDAY EXISTING AM PEAK
 Network Category: Existing AM Peak



SITES IN NETWORK		
Site ID	CCG ID	Site Name
101	NA	Site 1 - Hughes St and Hill St Existing AM Peak
104	NA	Site 4 - Hughes St and Park Rd Existing AM Peak
103	NA	Site 3 - Hughes St and Dutton Ln East Existing AM Peak
102	NA	Site 2 - Hughes St and Dutton Ln West Existing AM Peak
105	NA	Site 5 - Dutton Ln Left Turn Only Existing AM Peak
106	NA	Site 6 - Hill St and Car Park West Exit Existing AM Peak

MOVEMENT SUMMARY

Site: 101 [Site1 - Hughes St and Hill St Existing AM Peak]

Network: N101 [TUESDAY EXISTING AM PEAK]

Tuesday 19/09/18

Site1 - Hughes St and Hill St Existing AM Peak

Site Category: Existing AM Peak

Signals - Fixed Time Isolated Cycle Time = 60 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance m				
South: Hill St														
1	L2	27	3.8	27	3.8	0.077	21.4	LOS B	0.5	3.7	0.78	0.65	0.78	29.0
2	T1	149	3.5	149	3.5	0.378	8.5	LOS A	2.5	18.3	0.72	0.66	0.72	27.6
3	R2	134	7.9	134	7.9	0.378	11.3	LOS A	2.5	18.3	0.71	0.66	0.71	18.6
Approach		311	5.4	311	5.4	0.378	10.8	LOS A	2.5	18.3	0.72	0.66	0.72	25.6
East: Hughes St														
4	L2	68	4.6	68	4.6	0.074	11.2	LOS A	0.6	4.5	0.53	0.62	0.53	13.8
5	T1	142	3.7	142	3.7	0.342	22.1	LOS B	2.2	16.1	0.89	0.71	0.89	27.9
Approach		211	4.0	211	4.0	0.342	18.6	LOS B	2.2	16.1	0.77	0.68	0.77	26.5
North: Hill St														
7	L2	101	0.0	101	0.0	0.204	22.2	LOS B	1.4	10.1	0.81	0.73	0.81	16.6
8	T1	216	1.5	216	1.5	0.419	20.2	LOS B	3.3	23.4	0.87	0.72	0.87	17.6
Approach		317	1.0	317	1.0	0.419	20.8	LOS B	3.3	23.4	0.85	0.72	0.85	17.3
West: Hughes St														
10	L2	33	0.0	33	0.0	0.496	26.6	LOS B	3.4	24.0	0.93	0.76	0.93	28.9
11	T1	320	3.3	320	3.3	0.496	23.2	LOS B	3.4	24.0	0.93	0.76	0.93	26.5
12	R2	31	0.0	31	0.0	0.496	26.7	LOS B	3.0	21.2	0.92	0.76	0.92	26.4
Approach		383	2.7	383	2.7	0.496	23.8	LOS B	3.4	24.0	0.93	0.76	0.93	26.7
All Vehicles		1221	3.2	1221	3.2	0.496	18.8	LOS B	3.4	24.0	0.83	0.71	0.83	24.7

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow	Average Delay	Level of Service	Average Back of Queue	Prop. Queued	Effective Stop Rate		
		ped/h	sec		Pedestrian			Distance	
					ped			m	
P1	South Full Crossing	122	24.4	LOS C	0.2	0.2	0.90		0.90
P2	East Full Crossing	177	24.5	LOS C	0.3	0.3	0.91		0.91
P3	North Full Crossing	34	24.3	LOS C	0.1	0.1	0.90		0.90
P4	West Full Crossing	61	24.4	LOS C	0.1	0.1	0.90		0.90
All Pedestrians		394	24.4	LOS C			0.90		0.90

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

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MOVEMENT SUMMARY

Site: 102 [Site 2 - Hughes St and Dutton Ln West Existing AM Peak]

Network: N101 [TUESDAY EXISTING AM PEAK]

Tuesday 19/09/18

Site 2 - Hughes St and Dutton Ln West Existing AM Peak

Site Category: Existing AM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	Distance m			km/h	
South: Dutton Ln														
1	L2	66	6.3	66	6.3	0.060	4.4	LOS A	0.1	0.7	0.26	0.54	0.26	27.0
3	R2	6	16.7	6	16.7	0.060	9.2	LOS A	0.1	0.7	0.26	0.54	0.26	27.0
Approach		73	7.2	73	7.2	0.060	4.8	LOS A	0.1	0.7	0.26	0.54	0.26	27.0
East: Hughes St														
5	T1	144	2.9	144	2.9	0.075	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		144	2.9	144	2.9	0.075	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Hughes St														
11	T1	555	4.2	555	4.2	0.146	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		555	4.2	555	4.2	0.146	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		772	4.2	772	4.2	0.146	0.5	NA	0.1	0.7	0.02	0.05	0.02	53.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

Site: 103 [Site 3 - Hughes St and Dutton Ln East Existing AM Peak]

Network: N101 [TUESDAY EXISTING AM PEAK]

Tuesday 19/09/18

Site 3 - Huges St and Dutton Ln East Existing AM Peak

Site Category: Existing AM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles	Distance m			km/h	
South: Dutton Ln														
1	L2	1	0.0	1	0.0	0.015	3.9	LOS A	0.0	0.1	0.50	0.61	0.50	15.5
3	R2	5	0.0	5	0.0	0.015	10.8	LOS A	0.0	0.1	0.50	0.61	0.50	15.5
Approach		6	0.0	6	0.0	0.015	9.7	LOS A	0.0	0.1	0.50	0.61	0.50	15.5
East: Hughes St														
4	L2	94	1.1	94	1.1	0.051	3.4	LOS A	0.0	0.0	0.00	0.45	0.00	32.6
5	T1	146	2.9	146	2.9	0.076	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
Approach		240	2.2	240	2.2	0.076	1.3	NA	0.0	0.0	0.00	0.18	0.00	36.7
West: Hughes St														
11	T1	293	4.3	293	4.3	0.154	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
12	R2	304	4.2	304	4.2	0.263	4.7	LOS A	0.5	3.9	0.38	0.55	0.38	21.0
Approach		597	4.2	597	4.2	0.263	2.4	NA	0.5	3.9	0.19	0.28	0.19	27.8
All Vehicles		843	3.6	843	3.6	0.263	2.1	NA	0.5	3.9	0.14	0.25	0.14	31.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

 Site: 104 [Site 4 - Hughes St and Park Rd Existing AM Peak]  Network: N101 [TUESDAY EXISTING AM PEAK]

Tuesday 19/09/18

Site 4 - Hughes St and Park Rd Existing AM Peak

Site Category: Existing AM Peak

Signals - Fixed Time Isolated Cycle Time = 40 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance m				
East: Hughes St														
4	L2	46	0.0	46	0.0	0.104	14.7	LOS B	0.5	3.7	0.75	0.66	0.75	24.9
5	T1	135	3.1	135	3.1	0.397	12.4	LOS A	1.7	12.3	0.82	0.69	0.82	20.0
6	R2	51	2.1	51	2.1	0.397	15.9	LOS B	1.7	12.3	0.83	0.69	0.83	27.2
Approach		232	2.3	232	2.3	0.397	13.6	LOS A	1.7	12.3	0.81	0.69	0.81	23.2
North: Park Rd														
7	L2	51	2.1	51	2.1	0.069	11.5	LOS A	0.4	2.7	0.64	0.65	0.64	28.6
8	T1	89	0.0	89	0.0	0.268	9.0	LOS A	1.7	11.8	0.71	0.66	0.71	27.8
9	R2	113	1.9	113	1.9	0.268	12.4	LOS A	1.7	11.8	0.71	0.66	0.71	23.7
Approach		253	1.3	253	1.3	0.268	11.0	LOS A	1.7	11.8	0.70	0.66	0.70	26.5
West: Hughes St														
10	L2	44	4.8	44	4.8	0.104	14.7	LOS B	0.5	3.7	0.75	0.66	0.75	27.3
11	T1	135	5.5	135	5.5	0.522	13.2	LOS A	2.5	17.9	0.87	0.75	0.87	25.7
12	R2	111	2.9	111	2.9	0.522	16.9	LOS B	2.5	17.9	0.88	0.76	0.88	24.3
Approach		289	4.4	289	4.4	0.522	14.8	LOS B	2.5	17.9	0.85	0.74	0.85	25.5
All Vehicles		774	2.7	774	2.7	0.522	13.2	LOS A	2.5	17.9	0.79	0.70	0.79	25.2

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate	
P1	South Full Crossing	335	14.7	LOS B	0.3	0.3	0.86	0.86	
P2	East Full Crossing	393	14.7	LOS B	0.4	0.4	0.86	0.86	
P3	North Full Crossing	47	14.5	LOS B	0.0	0.0	0.85	0.85	
P4	West Full Crossing	158	14.5	LOS B	0.2	0.2	0.86	0.86	
All Pedestrians		933	14.6	LOS B			0.86	0.86	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 105 [Site 5 - Dutton Ln Left Turn Only Existing AM Peak]

Network: N101 [TUESDAY EXISTING AM PEAK]

Tuesday 19/09/18

Site 5 - Dutton Ln Left Turn Only Existing AM Peak

Site Category: Existing AM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance				
South: Car Park Entry														
2	T1	6	0.0	6	0.0	0.003	4.1	LOS A	0.0	0.0	0.00	0.53	0.00	52.9
Approach		6	0.0	6	0.0	0.003	4.1	LOS A	0.0	0.0	0.00	0.53	0.00	52.9
North: Dutton Ln														
7	L2	111	12.4	111	12.4	0.065	3.9	LOS A	0.0	0.0	0.00	0.55	0.00	34.4
8	T1	235	0.0	235	0.0	0.060	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		345	4.0	345	4.0	0.065	1.3	NA	0.0	0.0	0.00	0.17	0.00	43.9
All Vehicles		352	3.9	352	3.9	0.065	1.3	NA	0.0	0.0	0.00	0.18	0.00	44.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

▽ Site: 106 [Site 6 - Hill St and Car Park West Exit Existing AM Peak]

⊞ Network: N101 [TUESDAY EXISTING AM PEAK]

Tuesday 19/09/18
 Site 6 - Hill St and Car Park West Exit Existing AM Peak
 Site Category: Existing AM Peak
 Giveaway / Yield (Two-Way)

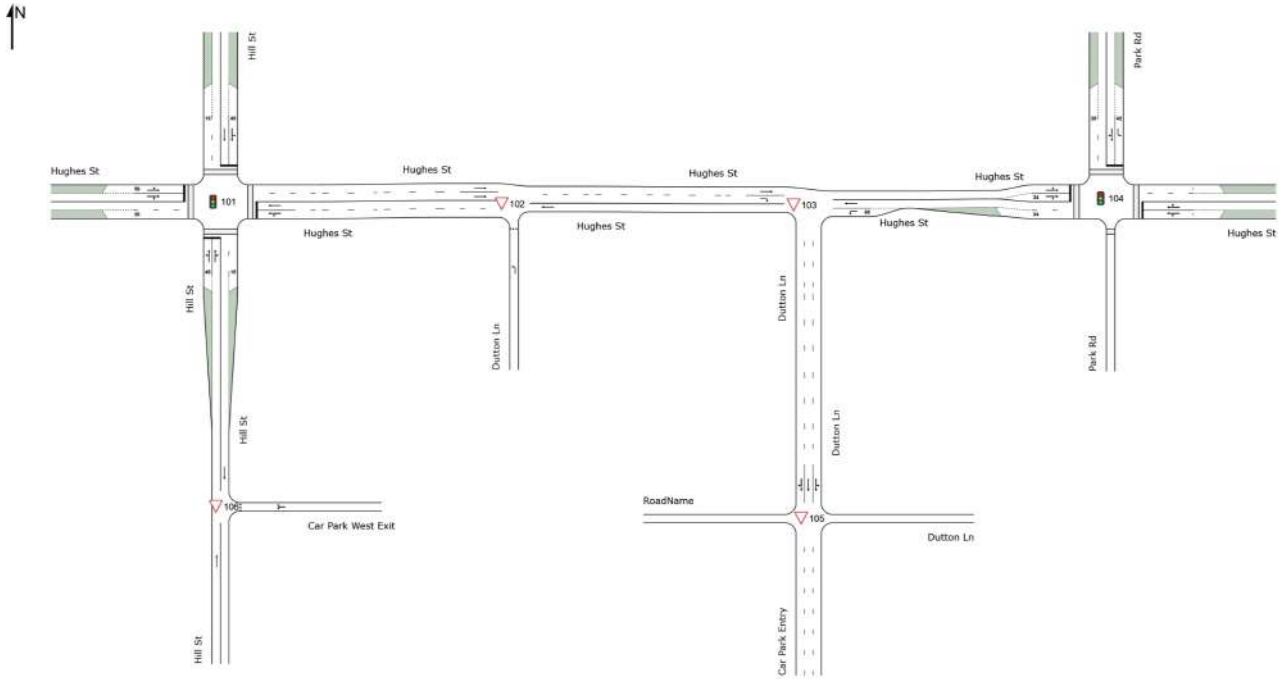
Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	Distance m			km/h	
South: Hill St														
2	T1	294	3.6	294	3.6	0.154	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		294	3.6	294	3.6	0.154	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
East: Car Park West Exit														
4	L2	17	37.5	17	37.5	0.038	5.3	LOS A	0.1	0.5	0.41	0.63	0.41	27.6
6	R2	15	14.3	15	14.3	0.038	6.9	LOS A	0.1	0.5	0.41	0.63	0.41	22.9
Approach		32	26.7	32	26.7	0.038	6.1	LOS A	0.1	0.5	0.41	0.63	0.41	26.1
North: Hill St														
8	T1	315	2.0	315	2.0	0.164	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		315	2.0	315	2.0	0.164	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		640	3.9	640	3.9	0.164	0.3	NA	0.1	0.5	0.02	0.03	0.02	56.9

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

NETWORK LAYOUT

Network: N101 [TUESDAY PROPOSED AM PEAK]

TUESDAY EXISTING AM PEAK
 Network Category: Proposed AM Peak



SITES IN NETWORK		
Site ID	CCG ID	Site Name
🚦 101	NA	Site 1 - Hughes St and Hill St Proposed AM Peak
🚦 104	NA	Site 4 - Hughes St and Park Rd Proposed AM Peak
▽ 103	NA	Site 3 - Hughes St and Dutton Ln East Proposed AM Peak
▽ 102	NA	Site 2 - Hughes St and Dutton Ln West Proposed AM Peak
▽ 105	NA	Site 5 - Dutton Ln Left Turn Only Proposed AM Peak
▽ 106	NA	Site 6 - Hill St and Car Park West Exit Proposed AM Peak

MOVEMENT SUMMARY

Site: 101 [Site1 - Hughes St and Hill St Proposed AM Peak]

Network: N101 [TUESDAY PROPOSED AM PEAK]

Tuesday 19/09/18

Site1 - Hughes St and Hill St Proposed AM Peak

Site Category: Proposed AM Peak

Signals - Fixed Time Isolated Cycle Time = 60 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance m				
South: Hill St														
1	L2	27	3.8	27	3.8	0.107	22.4	LOS B	0.7	5.0	0.80	0.66	0.80	28.8
2	T1	149	3.5	149	3.5	0.528	10.2	LOS A	3.6	25.8	0.79	0.72	0.79	25.9
3	R2	239	4.4	239	4.4	0.528	12.1	LOS A	3.6	25.8	0.79	0.74	0.79	17.2
Approach		416	4.1	416	4.1	0.528	12.1	LOS A	3.6	25.8	0.79	0.73	0.79	23.0
East: Hughes St														
4	L2	103	3.1	103	3.1	0.110	10.9	LOS A	0.9	6.7	0.52	0.63	0.52	14.1
5	T1	214	2.5	214	2.5	0.511	23.1	LOS B	3.5	25.0	0.93	0.76	0.93	27.5
Approach		317	2.7	317	2.7	0.511	19.1	LOS B	3.5	25.0	0.79	0.72	0.79	26.2
North: Hill St														
7	L2	154	0.0	154	0.0	0.331	23.9	LOS B	2.3	16.3	0.86	0.76	0.86	15.9
8	T1	216	1.5	216	1.5	0.447	21.1	LOS B	3.4	24.0	0.89	0.73	0.89	17.2
Approach		369	0.9	369	0.9	0.447	22.3	LOS B	3.4	24.0	0.88	0.74	0.88	16.6
West: Hughes St														
10	L2	33	0.0	33	0.0	0.612	27.4	LOS B	4.3	30.7	0.95	0.81	0.97	28.6
11	T1	404	2.6	404	2.6	0.612	24.5	LOS B	4.3	30.7	0.96	0.81	0.98	26.0
12	R2	31	0.0	31	0.0	0.612	28.5	LOS C	3.7	26.6	0.96	0.82	1.00	25.8
Approach		467	2.3	467	2.3	0.612	25.0	LOS B	4.3	30.7	0.96	0.81	0.98	26.2
All Vehicles		1569	2.5	1569	2.5	0.612	19.7	LOS B	4.3	30.7	0.86	0.75	0.87	24.0

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow	Average Delay	Level of Service	Average Back of Queue	Prop. Queued	Effective Stop Rate		
		ped/h	sec		Pedestrian			Distance	
					ped			m	
P1	South Full Crossing	122	24.4	LOS C	0.2	0.2	0.90		0.90
P2	East Full Crossing	177	24.5	LOS C	0.3	0.3	0.91		0.91
P3	North Full Crossing	34	24.3	LOS C	0.1	0.1	0.90		0.90
P4	West Full Crossing	61	24.4	LOS C	0.1	0.1	0.90		0.90
All Pedestrians		394	24.4	LOS C			0.90		0.90

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

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MOVEMENT SUMMARY

Site: 102 [Site 2 - Hughes St and Dutton Ln West Proposed AM Peak]

Network: N101 [TUESDAY PROPOSED AM PEAK]

Tuesday 19/09/18

Site 2 - Hughes St and Dutton Ln West Proposed AM Peak

Site Category: Proposed AM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Vehicles	Back of Queue Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	m				km/h
South: Dutton Ln														
1	L2	172	2.5	172	2.5	0.120	4.4	LOS A	0.2	1.5	0.25	0.54	0.25	27.3
Approach		172	2.5	172	2.5	0.120	4.4	LOS A	0.2	1.5	0.25	0.54	0.25	27.3
East: Hughes St														
5	T1	144	2.9	144	2.9	0.075	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		144	2.9	144	2.9	0.075	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Hughes St														
11	T1	660	3.5	660	3.5	0.173	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		660	3.5	660	3.5	0.173	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		976	3.2	976	3.2	0.173	0.8	NA	0.2	1.5	0.04	0.10	0.04	48.9

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

Site: 103 [Site 3 - Huges St and Dutton Ln East Proposed AM Peak]

Network: N101 [TUESDAY PROPOSED AM PEAK]

Tuesday 19/09/18

Site 3 - Huges St and Dutton Ln East Proposed AM Peak

Site Category: Proposed AM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand	Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	m				km/h
East: Huges St														
4	L2	167	0.6	167	0.6	0.091	3.4	LOS A	0.0	0.0	0.00	0.45	0.00	32.6
5	T1	146	2.9	146	2.9	0.076	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
Approach		314	1.7	314	1.7	0.091	1.8	NA	0.0	0.0	0.00	0.24	0.00	35.6
West: Huges St														
11	T1	398	3.2	398	3.2	0.208	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
12	R2	388	3.3	388	3.3	0.354	5.4	LOS A	0.8	5.6	0.46	0.62	0.46	19.9
Approach		786	3.2	786	3.2	0.354	2.7	NA	0.8	5.6	0.23	0.31	0.23	26.9
All Vehicles		1100	2.8	1100	2.8	0.354	2.4	NA	0.8	5.6	0.16	0.29	0.16	30.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
 Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

 Site: 104 [Site 4 - Hughes St and Park Rd Proposed AM Peak]

 Network: N101 [TUESDAY PROPOSED AM PEAK]

Tuesday 19/09/18

Site 4 - Hughes St and Park Rd Proposed AM Peak

Site Category: Proposed AM Peak

Signals - Fixed Time Isolated Cycle Time = 40 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles	Distance m				km/h
East: Hughes St														
4	L2	46	0.0	46	0.0	0.147	14.9	LOS B	0.8	5.3	0.77	0.65	0.77	25.4
5	T1	208	2.0	208	2.0	0.558	13.5	LOS A	2.4	16.8	0.86	0.73	0.87	19.4
6	R2	51	2.1	51	2.1	0.558	17.3	LOS B	2.4	16.8	0.88	0.74	0.90	26.4
Approach		305	1.7	305	1.7	0.558	14.3	LOS A	2.4	16.8	0.85	0.72	0.86	22.0
North: Park Rd														
7	L2	51	2.1	51	2.1	0.069	11.5	LOS A	0.4	2.7	0.64	0.65	0.64	28.6
8	T1	89	0.0	89	0.0	0.268	9.0	LOS A	1.7	11.8	0.71	0.66	0.71	27.8
9	R2	113	1.9	113	1.9	0.268	12.4	LOS A	1.7	11.8	0.71	0.66	0.71	23.7
Approach		253	1.3	253	1.3	0.268	11.0	LOS A	1.7	11.8	0.70	0.66	0.70	26.5
West: Hughes St														
10	L2	60	3.5	60	3.5	0.155	14.9	LOS B	0.8	5.6	0.77	0.67	0.77	27.3
11	T1	184	4.0	184	4.0	0.774	17.8	LOS B	4.1	29.7	0.95	0.97	1.22	23.1
12	R2	151	2.1	151	2.1	0.774	22.4	LOS B	4.1	29.7	0.98	1.02	1.29	21.3
Approach		395	3.2	395	3.2	0.774	19.1	LOS B	4.1	29.7	0.93	0.94	1.17	23.1
All Vehicles		953	2.2	953	2.2	0.774	15.4	LOS B	4.1	29.7	0.84	0.80	0.95	23.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow	Average Delay	Level of Service	Average Back of Queue	Prop. Queued	Effective Stop Rate		
		ped/h	sec		Pedestrian			Distance m	
P1	South Full Crossing	335	14.7	LOS B	0.3	0.3	0.86	0.86	
P2	East Full Crossing	393	14.7	LOS B	0.4	0.4	0.86	0.86	
P3	North Full Crossing	47	14.5	LOS B	0.0	0.0	0.85	0.85	
P4	West Full Crossing	158	14.5	LOS B	0.2	0.2	0.86	0.86	
All Pedestrians		933	14.6	LOS B			0.86	0.86	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 105 [Site 5 - Dutton Ln Left Turn Only Proposed AM Peak]

Network: N101 [TUESDAY PROPOSED AM PEAK]

Tuesday 19/09/18

Site 5 - Dutton Ln Left Turn Only Proposed AM Peak

Site Category: Proposed AM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance m				
North: Dutton Ln														
7	L2	47	28.9	47	28.9	0.098	3.9	LOS A	0.0	0.0	0.00	0.15	0.00	38.0
8	T1	445	0.0	445	0.0	0.098	0.0	LOS A	0.0	0.0	0.00	0.10	0.00	52.8
9	R2	63	0.0	63	0.0	0.098	4.0	LOS A	0.0	0.0	0.00	0.22	0.00	53.6
Approach		556	2.5	556	2.5	0.098	0.8	NA	0.0	0.0	0.00	0.12	0.00	51.3
All Vehicles		556	2.5	556	2.5	0.098	0.8	NA	0.0	0.0	0.00	0.12	0.00	51.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

Site: 106 [Site 6 - Hill St and Car Park West Exit Proposed AM Peak]

Network: N101 [TUESDAY PROPOSED AM PEAK]

Tuesday 19/09/18

Site 6 - Hill St and Car Park West Exit Proposed AM Peak

Site Category: Proposed AM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand	Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	m				km/h
South: Hill St														
2	T1	294	3.6	294	3.6	0.154	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		294	3.6	294	3.6	0.154	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
East: Car Park West Exit														
4	L2	80	7.9	80	7.9	0.235	5.5	LOS A	0.4	2.8	0.48	0.73	0.48	28.0
6	R2	120	1.8	120	1.8	0.235	7.3	LOS A	0.4	2.8	0.48	0.73	0.48	21.7
Approach		200	4.2	200	4.2	0.235	6.6	LOS A	0.4	2.8	0.48	0.73	0.48	25.0
North: Hill St														
8	T1	349	1.8	349	1.8	0.181	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		349	1.8	349	1.8	0.181	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		843	3.0	843	3.0	0.235	1.6	NA	0.4	2.8	0.11	0.17	0.11	47.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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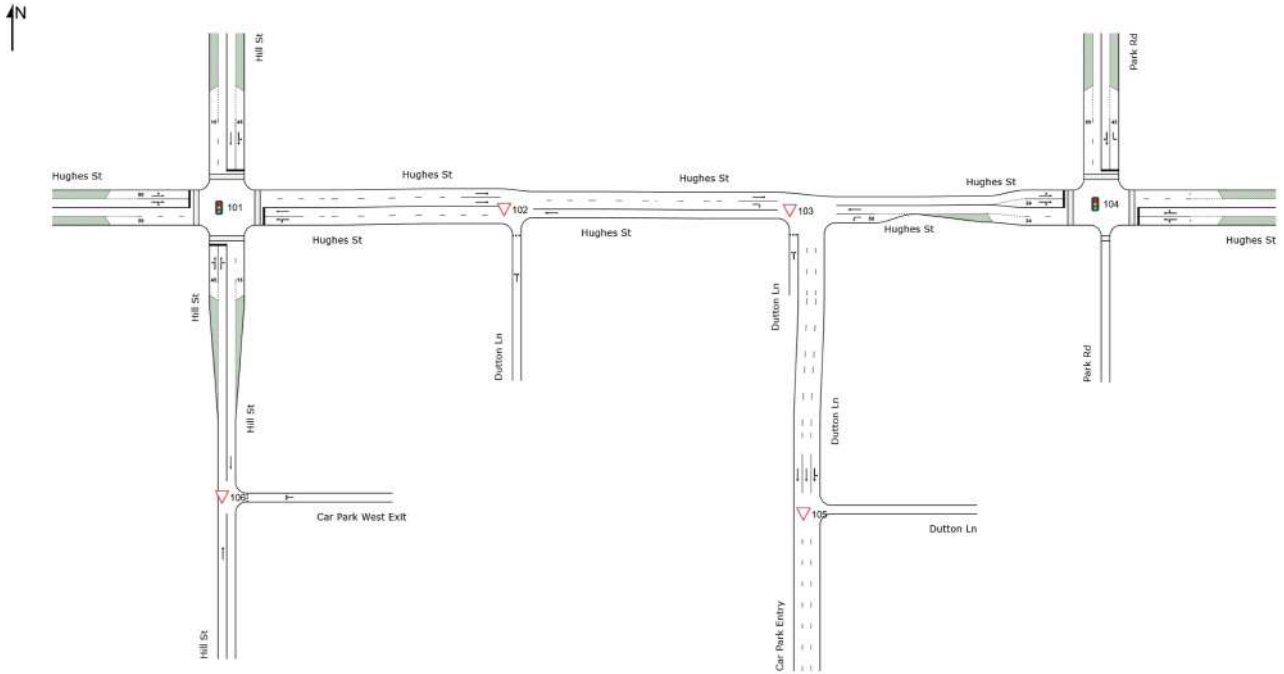
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NETWORK LAYOUT

Network: N101 [TUESDAY EXISTING PM PEAK]

TUESDAY EXISTING PM PEAK

Network Category: Existing PM Peak



SITES IN NETWORK

Site ID	CCG ID	Site Name
101	NA	Site 1 - Hughes St and Hill St Existing PM Peak
104	NA	Site 4 - Hughes St and Park Rd Existing PM Peak
103	NA	Site 3 - Hughes St and Dutton Ln East Existing PM Peak
102	NA	Site 2 - Hughes St and Dutton Ln West Existing PM Peak
105	NA	Site 5 - Dutton Ln Left Turn Only
106	NA	Site 6 - Hill St and Car Park West Exit Existing PM Peak

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MOVEMENT SUMMARY

 Site: 101 [Site1 - Hughes St and Hill St Existing PM Peak]

 Network: N101 [TUESDAY EXISTING PM PEAK]

Tuesday 19/09/18
Site1 - Hughes St and Hill St Existing PM Peak

Site Category: Existing PM Peak
Signals - Fixed Time Isolated Cycle Time = 60 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn v/c	Average Delay sec	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed km/h
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance m				
South: Hill St														
1	L2	61	0.0	61	0.0	0.131	22.6	LOS B	0.9	6.1	0.81	0.70	0.81	28.2
2	T1	203	1.0	203	1.0	0.482	8.5	LOS A	3.8	27.5	0.72	0.67	0.72	27.6
3	R2	167	6.9	167	6.9	0.482	11.9	LOS A	3.8	27.5	0.72	0.67	0.72	17.9
Approach		432	3.2	432	3.2	0.482	11.8	LOS A	3.8	27.5	0.74	0.67	0.74	25.7
East: Hughes St														
4	L2	140	0.0	140	0.0	0.165	12.2	LOS A	1.4	10.0	0.57	0.65	0.57	13.2
5	T1	353	0.9	353	0.9	0.766	26.3	LOS B	6.5	45.7	0.98	0.96	1.15	26.4
Approach		493	0.6	493	0.6	0.766	22.3	LOS B	6.5	45.7	0.87	0.87	0.99	25.2
North: Hill St														
7	L2	62	1.7	62	1.7	0.135	22.7	LOS B	0.9	6.3	0.81	0.71	0.81	16.4
8	T1	154	1.4	154	1.4	0.318	20.3	LOS B	2.3	16.4	0.86	0.69	0.86	17.5
Approach		216	1.5	216	1.5	0.318	21.0	LOS B	2.3	16.4	0.84	0.70	0.84	17.2
West: Hughes St														
10	L2	47	0.0	47	0.0	0.405	25.1	LOS B	2.8	20.1	0.89	0.74	0.89	29.3
11	T1	189	1.7	189	1.7	0.405	23.5	LOS B	2.8	20.1	0.91	0.74	0.91	26.2
12	R2	34	0.0	34	0.0	0.405	30.9	LOS C	1.6	11.2	0.96	0.75	0.96	24.7
Approach		271	1.2	271	1.2	0.405	24.7	LOS B	2.8	20.1	0.91	0.74	0.91	26.6
All Vehicles		1411	1.6	1411	1.6	0.766	19.4	LOS B	6.5	45.7	0.83	0.76	0.87	24.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
 Vehicle movement LOS values are based on average delay per movement.
 Intersection and Approach LOS values are based on average delay for all vehicle movements.
 SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate	
P1	South Full Crossing	122	24.4	LOS C	0.2	0.2	0.90	0.90	
P2	East Full Crossing	177	24.5	LOS C	0.3	0.3	0.91	0.91	
P3	North Full Crossing	34	24.3	LOS C	0.1	0.1	0.90	0.90	
P4	West Full Crossing	61	24.4	LOS C	0.1	0.1	0.90	0.90	
All Pedestrians		394	24.4	LOS C			0.90	0.90	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
 Pedestrian movement LOS values are based on average delay per pedestrian movement.
 Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

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MOVEMENT SUMMARY

Site: 102 [Site 2 - Hughes St and Dutton Ln West Existing PM Peak]

Network: N101 [TUESDAY EXISTING PM PEAK]

Site 2 - Hughes St and Dutton Ln West Existing PM Peak

Site Category: Existing PM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles	Distance m			km/h	
South: Dutton Ln														
1	L2	235	1.3	235	1.3	0.213	4.8	LOS A	0.4	2.7	0.37	0.60	0.37	25.9
3	R2	20	5.3	20	5.3	0.213	9.5	LOS A	0.4	2.7	0.37	0.60	0.37	25.9
Approach		255	1.7	255	1.7	0.213	5.2	LOS A	0.4	2.7	0.37	0.60	0.37	25.9
East: Hughes St														
5	T1	231	0.9	231	0.9	0.119	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		231	0.9	231	0.9	0.119	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Hughes St														
11	T1	461	3.0	461	3.0	0.120	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		461	3.0	461	3.0	0.120	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		946	2.1	946	2.1	0.213	1.4	NA	0.4	2.7	0.10	0.16	0.10	43.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

Site: 103 [Site 3 - Hughes St and Dutton Ln East Existing PM Peak]

Network: N101 [TUESDAY EXISTING PM PEAK]

Tuesday 19/09/18

Site 3 - Huges St and Dutton Ln East Existing PM Peak

Site Category: Existing PM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles	Distance m			km/h	
South: Dutton Ln														
1	L2	18	0.0	18	0.0	0.143	4.2	LOS A	0.2	1.5	0.50	0.67	0.50	16.0
3	R2	53	0.0	53	0.0	0.143	10.8	LOS A	0.2	1.5	0.50	0.67	0.50	16.0
Approach		71	0.0	71	0.0	0.143	9.1	LOS A	0.2	1.5	0.50	0.67	0.50	16.0
East: Hughes St														
4	L2	122	0.9	122	0.9	0.066	3.4	LOS A	0.0	0.0	0.00	0.45	0.00	32.6
5	T1	194	0.5	194	0.5	0.100	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
Approach		316	0.7	316	0.7	0.100	1.3	NA	0.0	0.0	0.00	0.18	0.00	36.8
West: Hughes St														
11	T1	267	2.8	267	2.8	0.140	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
12	R2	241	2.2	241	2.2	0.220	5.0	LOS A	0.4	3.1	0.41	0.58	0.41	20.8
Approach		508	2.5	508	2.5	0.220	2.3	NA	0.4	3.1	0.20	0.27	0.20	28.2
All Vehicles		895	1.6	895	1.6	0.220	2.5	NA	0.4	3.1	0.15	0.27	0.15	31.2

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

 Site: 104 [Site 4 - Hughes St and Park Rd Existing PM Peak]  Network: N101 [TUESDAY EXISTING PM PEAK]

Tuesday 19/09/18

Site 4 - Hughes St and Park Rd Existing PM Peak

Site Category: Existing PM Peak

Signals - Fixed Time Isolated Cycle Time = 40 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance m				
East: Hughes St														
4	L2	84	0.0	84	0.0	0.157	14.9	LOS B	0.8	5.6	0.77	0.70	0.77	24.4
5	T1	176	1.8	176	1.8	0.595	13.6	LOS A	2.5	17.9	0.87	0.77	0.92	19.3
6	R2	63	0.0	63	0.0	0.595	17.0	LOS B	2.5	17.9	0.87	0.77	0.93	26.5
Approach		323	1.0	323	1.0	0.595	14.6	LOS B	2.5	17.9	0.84	0.75	0.88	22.6
North: Park Rd														
7	L2	53	0.0	53	0.0	0.071	11.5	LOS A	0.4	2.8	0.64	0.65	0.64	28.6
8	T1	93	0.0	93	0.0	0.290	9.1	LOS A	1.8	12.9	0.72	0.67	0.72	27.7
9	R2	127	0.0	127	0.0	0.290	12.5	LOS A	1.8	12.9	0.72	0.67	0.72	23.6
Approach		273	0.0	273	0.0	0.290	11.1	LOS A	1.8	12.9	0.70	0.66	0.70	26.3
West: Hughes St														
10	L2	94	0.0	94	0.0	0.168	15.0	LOS B	0.9	6.0	0.77	0.71	0.77	26.7
11	T1	154	8.9	154	8.9	0.541	14.2	LOS A	2.6	19.0	0.90	0.76	0.90	25.4
12	R2	83	1.3	83	1.3	0.541	17.7	LOS B	2.6	19.0	0.90	0.76	0.90	24.1
Approach		331	4.5	331	4.5	0.541	15.3	LOS B	2.6	19.0	0.86	0.75	0.86	25.5
All Vehicles		926	1.9	926	1.9	0.595	13.8	LOS A	2.6	19.0	0.81	0.72	0.82	24.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian ped	Distance m	Prop. Queued	Effective Stop Rate	
P1	South Full Crossing	335	14.7	LOS B	0.3	0.3	0.86	0.86	
P2	East Full Crossing	393	14.7	LOS B	0.4	0.4	0.86	0.86	
P3	North Full Crossing	47	14.5	LOS B	0.0	0.0	0.85	0.85	
P4	West Full Crossing	158	14.5	LOS B	0.2	0.2	0.86	0.86	
All Pedestrians		933	14.6	LOS B			0.86	0.86	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 105 [Site 5 - Dutton Ln Left Turn Only]

Network: N101 [TUESDAY EXISTING PM PEAK]

New Site
 Site Category: (None)
 Giveway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %									v/c
North: Dutton Ln														
7	L2	167	3.1	167	3.1	0.092	3.9	LOS A	0.0	0.0	0.00	0.55	0.00	35.0
8	T1	196	0.5	196	0.5	0.050	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		363	1.7	363	1.7	0.092	1.8	NA	0.0	0.0	0.00	0.25	0.00	41.2
All Vehicles		363	1.7	363	1.7	0.092	1.8	NA	0.0	0.0	0.00	0.25	0.00	41.2

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 106 [Site 6 - Hill St and Car Park West Exit Existing PM Peak] Network: N101 [TUESDAY EXISTING PM PEAK]

Tuesday 19/09/18

Site 6 - Hill St and Car Park West Exit Existing PM Peak

Site Category: Existing PM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance				
South: Hill St														
2	T1	294	3.6	294	3.6	0.154	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		294	3.6	294	3.6	0.154	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
East: Car Park West Exit														
4	L2	17	37.5	17	37.5	0.038	5.3	LOS A	0.1	0.5	0.41	0.63	0.41	27.6
6	R2	15	14.3	15	14.3	0.038	6.9	LOS A	0.1	0.5	0.41	0.63	0.41	22.8
Approach		32	26.7	32	26.7	0.038	6.1	LOS A	0.1	0.5	0.41	0.63	0.41	26.1
North: Hill St														
8	T1	315	2.0	315	2.0	0.164	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		315	2.0	315	2.0	0.164	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		640	3.9	640	3.9	0.164	0.3	NA	0.1	0.5	0.02	0.03	0.02	56.9

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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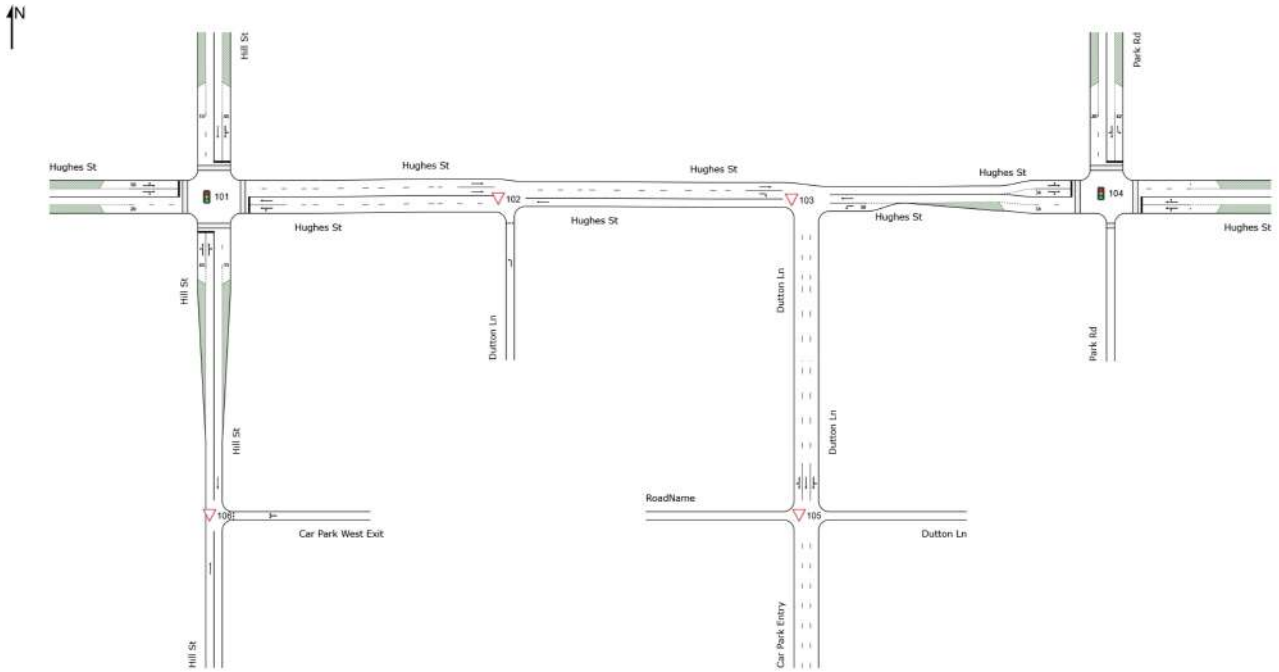
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NETWORK LAYOUT

Network: N101 [TUESDAY PROPOSED PM PEAK]

TUESDAY PROPOSED PM PEAK

Network Category: Proposed PM Peak



SITES IN NETWORK

Site ID	CCG ID	Site Name
101	NA	Site 1 - Hughes St and Hill St Proposed PM Peak
104	NA	Site 4 - Hughes St and Park Rd Proposed PM Peak
103	NA	Site 3 - Hughes St and Dutton Ln East Proposed PM Peak
102	NA	Site 2 - Hughes St and Dutton Ln West Proposed PM Peak
105	NA	Site 5 - Dutton Ln Left Turn Only Existing PM Peak
106	NA	Site 6 - Hill St and Car Park West Exit Proposed PM Peak

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MOVEMENT SUMMARY

 Site: 101 [Site1 - Hughes St and Hill St Proposed PM Peak]

 Network: N101 [TUESDAY PROPOSED PM PEAK]

Site1 - Hughes St and Hill St

Site Category: Proposed PM Peak

Signals - Fixed Time Isolated Cycle Time = 70 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %				Vehicles	Distance m				
South: Hill St														
1	L2	61	0.0	61	0.0	0.144	27.1	LOS B	1.0	7.3	0.83	0.71	0.83	26.6
2	T1	203	1.0	203	1.0	0.602	9.8	LOS A	5.8	41.4	0.78	0.74	0.78	26.3
3	R2	273	4.2	273	4.2	0.602	13.3	LOS A	5.8	41.4	0.78	0.74	0.78	16.4
Approach		537	2.5	537	2.5	0.602	13.5	LOS A	5.8	41.4	0.79	0.74	0.79	23.3
East: Hughes St														
4	L2	169	0.0	169	0.0	0.193	12.6	LOS A	1.9	13.4	0.55	0.65	0.55	12.8
5	T1	428	0.7	428	0.7	0.895	39.3	LOS C	7.1	50.0	0.99	1.18	1.40	22.6
Approach		598	0.5	598	0.5	0.895	31.7	LOS C	7.1	50.0	0.87	1.03	1.16	21.8
North: Hill St														
7	L2	115	0.9	115	0.9	0.272	28.0	LOS B	2.0	14.3	0.86	0.75	0.86	14.4
8	T1	154	1.4	154	1.4	0.348	25.0	LOS B	2.8	19.6	0.88	0.71	0.88	15.5
Approach		268	1.2	268	1.2	0.348	26.3	LOS B	2.8	19.6	0.87	0.73	0.87	15.1
West: Hughes St														
10	L2	47	0.0	47	0.0	0.560	29.2	LOS C	4.9	34.8	0.93	0.78	0.93	28.0
11	T1	274	1.2	274	1.2	0.560	27.8	LOS B	4.9	34.8	0.94	0.78	0.95	24.8
12	R2	34	0.0	34	0.0	0.560	38.6	LOS C	2.0	14.4	1.00	0.80	1.04	22.4
Approach		355	0.9	355	0.9	0.560	29.0	LOS C	4.9	34.8	0.95	0.78	0.96	25.0
All Vehicles		1758	1.3	1758	1.3	0.895	24.8	LOS B	7.1	50.0	0.86	0.84	0.96	22.2

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back of Queue Pedestrian	Distance m	Prop. Queued	Effective Stop Rate	
P1	South Full Crossing	122	29.4	LOS C	0.2	0.2	0.92	0.92	
P2	East Full Crossing	177	29.5	LOS C	0.3	0.3	0.92	0.92	
P3	North Full Crossing	34	29.3	LOS C	0.1	0.1	0.92	0.92	
P4	West Full Crossing	61	29.3	LOS C	0.1	0.1	0.92	0.92	
All Pedestrians		394	29.4	LOS C			0.92	0.92	

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

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MOVEMENT SUMMARY

Site: 102 [Site 2 - Hughes St and Dutton Ln West Proposed PM Peak]

Network: N101 [TUESDAY PROPOSED PM PEAK]

Site 2 - Hughes St and Dutton Ln West Proposed PM Peak

Site Category: Proposed PM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Vehicles	Back of Queue Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	m				km/h
South: Dutton Ln														
1	L2	340	0.9	340	0.9	0.256	4.9	LOS A	0.5	3.4	0.36	0.59	0.36	26.2
Approach		340	0.9	340	0.9	0.256	4.9	LOS A	0.5	3.4	0.36	0.59	0.36	26.2
East: Hughes St														
5	T1	231	0.9	231	0.9	0.119	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		231	0.9	231	0.9	0.119	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
West: Hughes St														
11	T1	566	2.4	566	2.4	0.147	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		566	2.4	566	2.4	0.147	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		1137	1.7	1137	1.7	0.256	1.5	NA	0.5	3.4	0.11	0.18	0.11	42.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

Site: 103 [Site 3 - Huges St and Dutton Ln East Proposed PM Peak]

Network: N101 [TUESDAY PROPOSED PM PEAK]

Site 3 - Huges St and Dutton Ln East Proposed PM Peak

Site Category: Proposed PM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Vehicles	Back of Queue Distance	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	m				km/h
East: Huges St														
4	L2	196	0.5	196	0.5	0.106	3.4	LOS A	0.0	0.0	0.00	0.45	0.00	32.6
5	T1	194	0.5	194	0.5	0.100	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
Approach		389	0.5	389	0.5	0.106	1.7	NA	0.0	0.0	0.00	0.23	0.00	35.8
West: Huges St														
11	T1	373	2.0	373	2.0	0.194	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	40.0
12	R2	378	1.4	378	1.4	0.365	6.0	LOS A	0.8	5.9	0.51	0.68	0.53	19.0
Approach		751	1.7	751	1.7	0.365	3.0	NA	0.8	5.9	0.26	0.34	0.27	25.9
All Vehicles		1140	1.3	1140	1.3	0.365	2.6	NA	0.8	5.9	0.17	0.30	0.18	30.9

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

 **Site: 104 [Site 4 - Hughes St and Park Rd Proposed PM Peak]**

 **Network: N101 [TUESDAY PROPOSED PM PEAK]**

Site 4 - Hughes St and Park Rd Proposed PM Peak

Site Category: Proposed PM Peak

Signals - Fixed Time Isolated Cycle Time = 50 seconds (Site Practical Cycle Time)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue		Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles	Distance m				km/h
East: Hughes St														
4	L2	84	0.0	84	0.0	0.147	12.5	LOS A	1.1	7.6	0.63	0.62	0.63	26.7
5	T1	249	1.3	249	1.3	0.558	12.3	LOS A	3.2	22.6	0.77	0.68	0.77	20.2
6	R2	63	0.0	63	0.0	0.558	16.3	LOS B	3.2	22.6	0.79	0.69	0.79	27.1
Approach		397	0.8	397	0.8	0.558	13.0	LOS A	3.2	22.6	0.74	0.67	0.74	23.2
North: Park Rd														
7	L2	53	0.0	53	0.0	0.089	16.5	LOS B	0.6	3.9	0.73	0.68	0.73	25.4
8	T1	93	0.0	93	0.0	0.363	14.5	LOS B	2.6	18.3	0.81	0.72	0.81	24.0
9	R2	127	0.0	127	0.0	0.363	17.9	LOS B	2.6	18.3	0.81	0.72	0.81	19.6
Approach		273	0.0	273	0.0	0.363	16.5	LOS B	2.6	18.3	0.80	0.71	0.80	22.5
West: Hughes St														
10	L2	123	0.0	123	0.0	0.151	12.6	LOS A	1.1	7.8	0.63	0.67	0.63	28.2
11	T1	202	6.8	202	6.8	0.556	14.4	LOS A	3.9	28.3	0.85	0.75	0.85	25.3
12	R2	109	1.0	109	1.0	0.556	17.9	LOS B	3.9	28.3	0.85	0.75	0.85	24.0
Approach		435	3.4	435	3.4	0.556	14.7	LOS B	3.9	28.3	0.79	0.73	0.79	25.8
All Vehicles		1104	1.6	1104	1.6	0.558	14.6	LOS B	3.9	28.3	0.77	0.70	0.77	24.2

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow	Average Delay	Level of Service	Average Back of Queue	Prop. Queued	Effective Stop Rate		
		ped/h	sec		Pedestrian			Distance	
					ped			m	
P1	South Full Crossing	335	19.6	LOS B	0.4	0.4	0.89		0.89
P2	East Full Crossing	393	19.7	LOS B	0.5	0.5	0.89		0.89
P3	North Full Crossing	47	19.4	LOS B	0.1	0.1	0.88		0.88
P4	West Full Crossing	158	19.5	LOS B	0.2	0.2	0.89		0.89
All Pedestrians		933	19.6	LOS B			0.89		0.89

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)

Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

MOVEMENT SUMMARY

Site: 105 [Site 5 - Dutton Ln Left Turn Only Existing PM Peak]

Network: N101 [TUESDAY PROPOSED PM PEAK]

Tuesday 19/09/18

Site 5 - Dutton Ln Left Turn Only Existing PM Peak

Site Category: Existing PM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		veh	Distance m			km/h	
North: Dutton Ln														
7	L2	104	5.1	104	5.1	0.100	3.9	LOS A	0.0	0.0	0.00	0.32	0.00	36.7
8	T1	406	0.3	406	0.3	0.100	0.0	LOS A	0.0	0.0	0.00	0.13	0.00	50.5
9	R2	63	0.0	63	0.0	0.100	4.0	LOS A	0.0	0.0	0.00	0.21	0.00	53.7
Approach		574	1.1	574	1.1	0.100	1.2	NA	0.0	0.0	0.00	0.17	0.00	48.2
All Vehicles		574	1.1	574	1.1	0.100	1.2	NA	0.0	0.0	0.00	0.17	0.00	48.2

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).
 Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

Site: 106 [Site 6 - Hill St and Car Park West Exit Proposed PM Peak]

Network: N101 [TUESDAY PROPOSED PM PEAK]

Site 6 - Hill St and Car Park West Exit Proposed PM Peak

Site Category: Proposed PM Peak

Giveaway / Yield (Two-Way)

Movement Performance - Vehicles														
Mov ID	Turn	Demand Flows		Arrival Flows		Deg. Satn	Average Delay	Level of Service	Aver. Back of Queue	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Average Speed	
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles	Distance m			km/h	
South: Hill St														
2	T1	294	3.6	294	3.6	0.154	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		294	3.6	294	3.6	0.154	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
East: Car Park West Exit														
4	L2	80	7.9	80	7.9	0.235	5.4	LOS A	0.4	2.8	0.48	0.73	0.48	28.0
6	R2	120	1.8	120	1.8	0.235	7.3	LOS A	0.4	2.8	0.48	0.73	0.48	21.7
Approach		200	4.2	200	4.2	0.235	6.6	LOS A	0.4	2.8	0.48	0.73	0.48	25.1
North: Hill St														
8	T1	344	1.8	344	1.8	0.179	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Approach		344	1.8	344	1.8	0.179	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Vehicles		838	3.0	838	3.0	0.235	1.6	NA	0.4	2.8	0.11	0.17	0.11	47.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

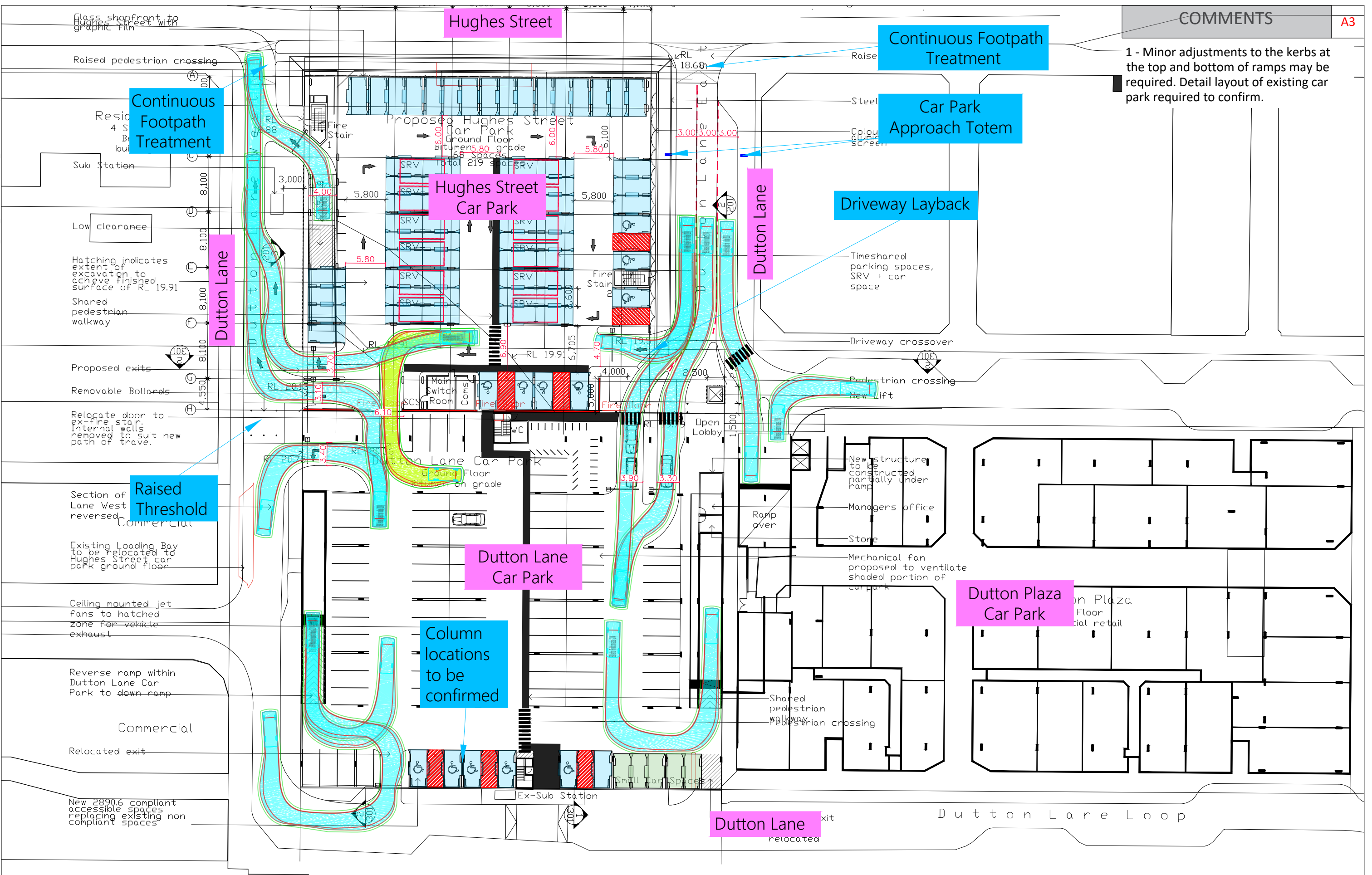
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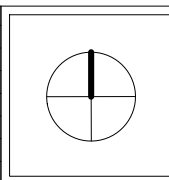
Attachment 2 Car Park Assessment

15/11/20_24/2_Cabramatta Multi-Deck Access & Parking Assessment - DA Plans.dwg



Suite 102, 506 Miller Street, Cammeray NSW 2062
 t +61 2 8920 0800
 ptcconsultants.co

REV	DATE	COMMENT	DRAWN	REVIEWED	REV	DATE	COMMENT	DRAWN	REVIEWED
3	30/01/19	Access & Parking Assessment	SW	AM					
2	18/12/18	Access & Parking Assessment	SW	AM					
1	22/11/18	Access & Parking Assessment	SW	AM					



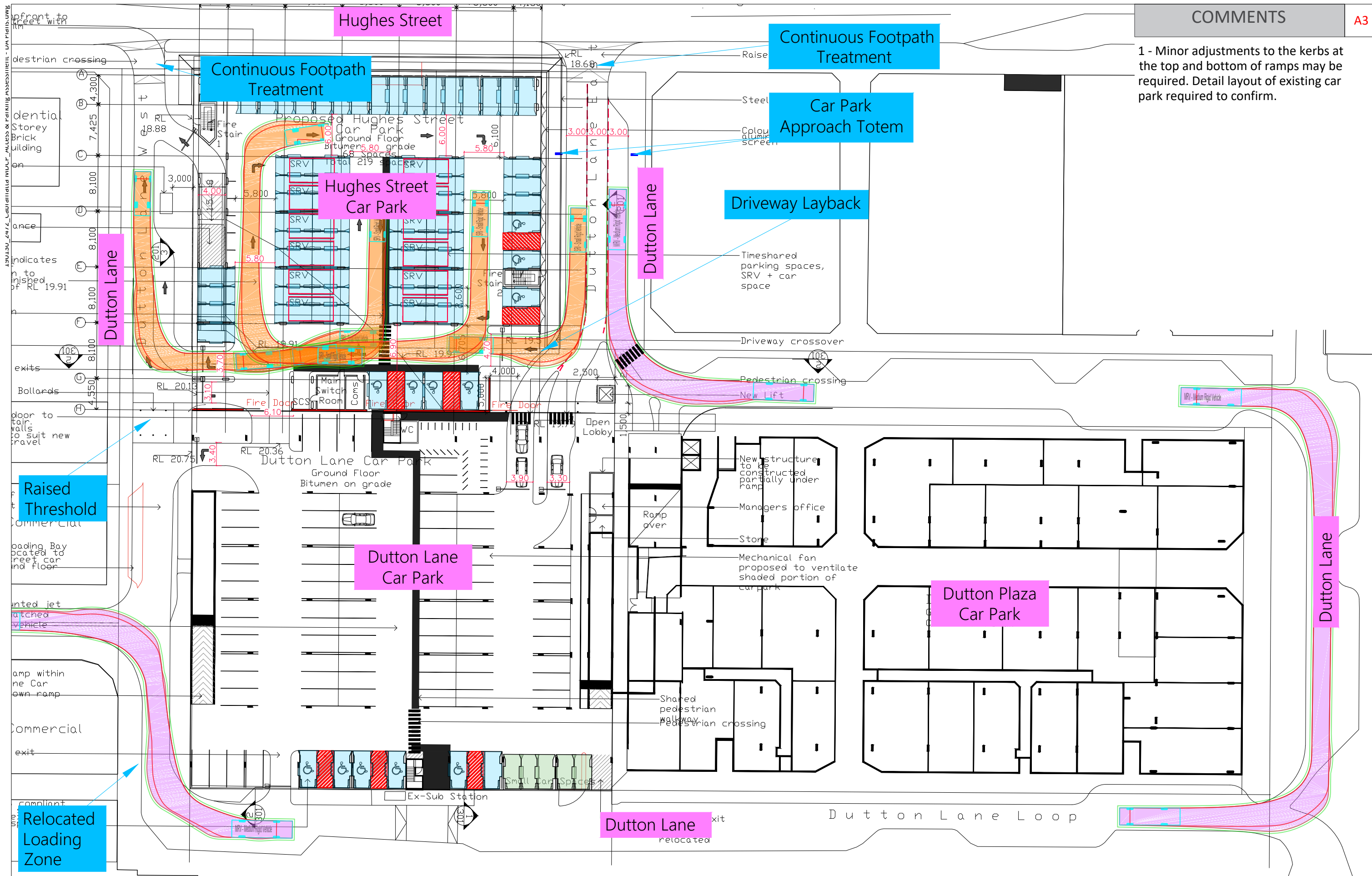
PROJECT:
 Cabramatta
 Multi Deck Car Park

DRAWING TITLE:
 Parking & Access Assessment
 GROUND FLOOR
 CAR ACCESS

CLIENT: Collins & Turner
 DRG. #: PTC-001
 PROJECT #: 2472
 SCALE: 1:500

REV: 3

1 - Minor adjustments to the kerbs at the top and bottom of ramps may be required. Detail layout of existing car park required to confirm.



Raised Threshold

Continuous Footpath Treatment

Car Park Approach Totem

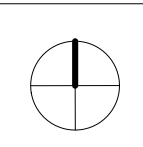
Driveway Layback

Relocated Loading Zone



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REV	DATE	COMMENT	DRAWN	REVIEWED	REV	DATE	COMMENT	DRAWN	REVIEWED
3	30/01/19	Access & Parking Assessment	SW	AM					
2	18/12/18	Access & Parking Assessment	SW	AM					
1	22/11/18	Access & Parking Assessment	SW	AM					



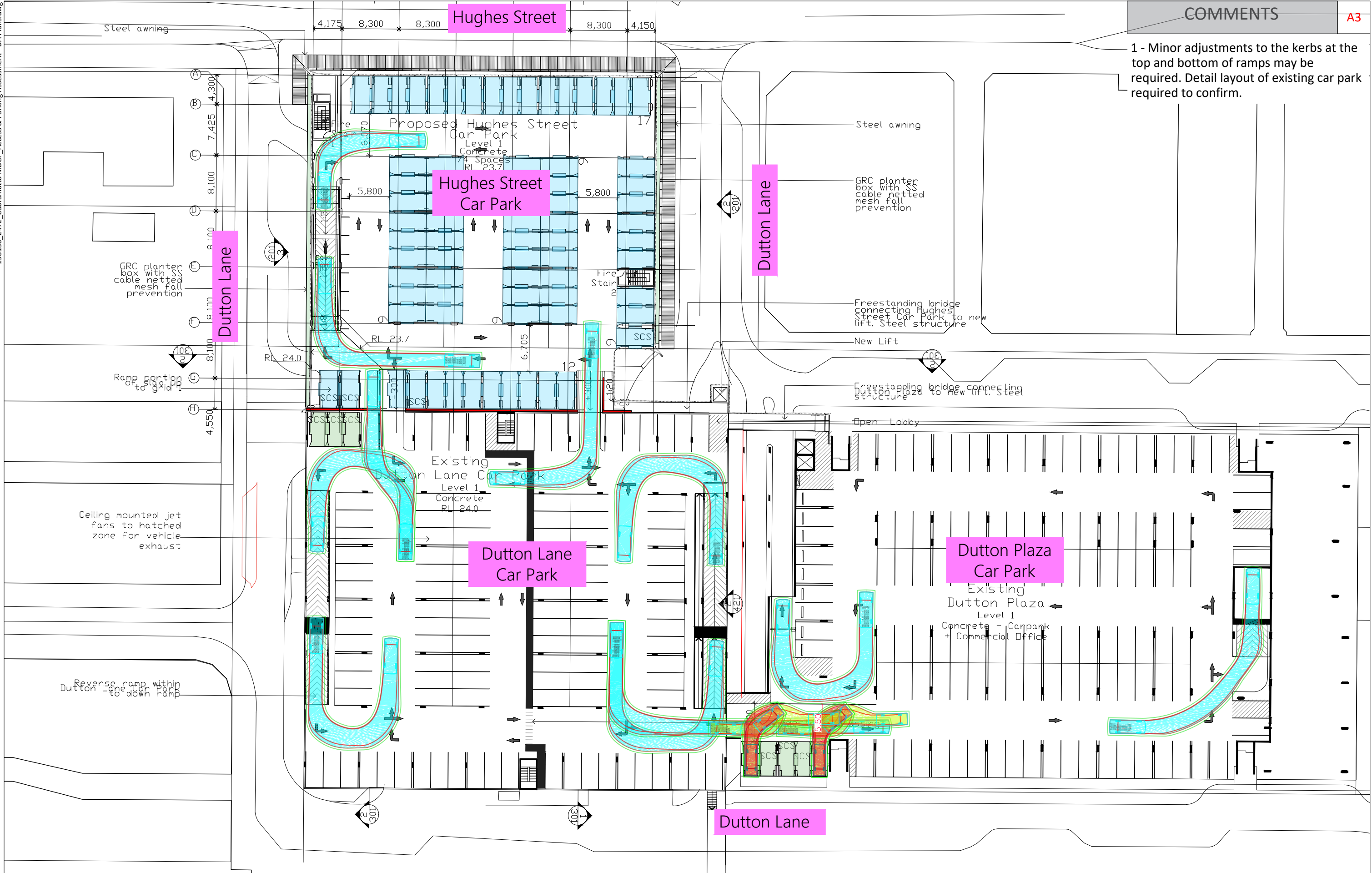
PROJECT:
Cabramatta
Multi Deck Car Park

DRAWING TITLE:
Parking & Access Assessment
GROUND FLOOR
SRV & MRV ACCESS

CLIENT: Collins & Turner
DRG. #: PTC-002
PROJECT #: T2-2472
SCALE: 1:500

REV: 3

15/01/20_24/2_Cabramatta Multi-Deck Car Park Access & Parking Assessment - DA Plans.UWS

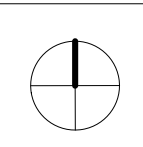


1 - Minor adjustments to the kerbs at the top and bottom of ramps may be required. Detail layout of existing car park required to confirm.



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REV	DATE	COMMENT	DRAWN	REVIEWED	REV	DATE	COMMENT	DRAWN	REVIEWED
3	30/01/19	Access & Parking Assessment	SW	AM					
2	18/12/18	Access & Parking Assessment	SW	AM					
1	22/11/18	Access & Parking Assessment	SW	AM					



PROJECT:
 Cabramatta
 Multi Deck Car Park

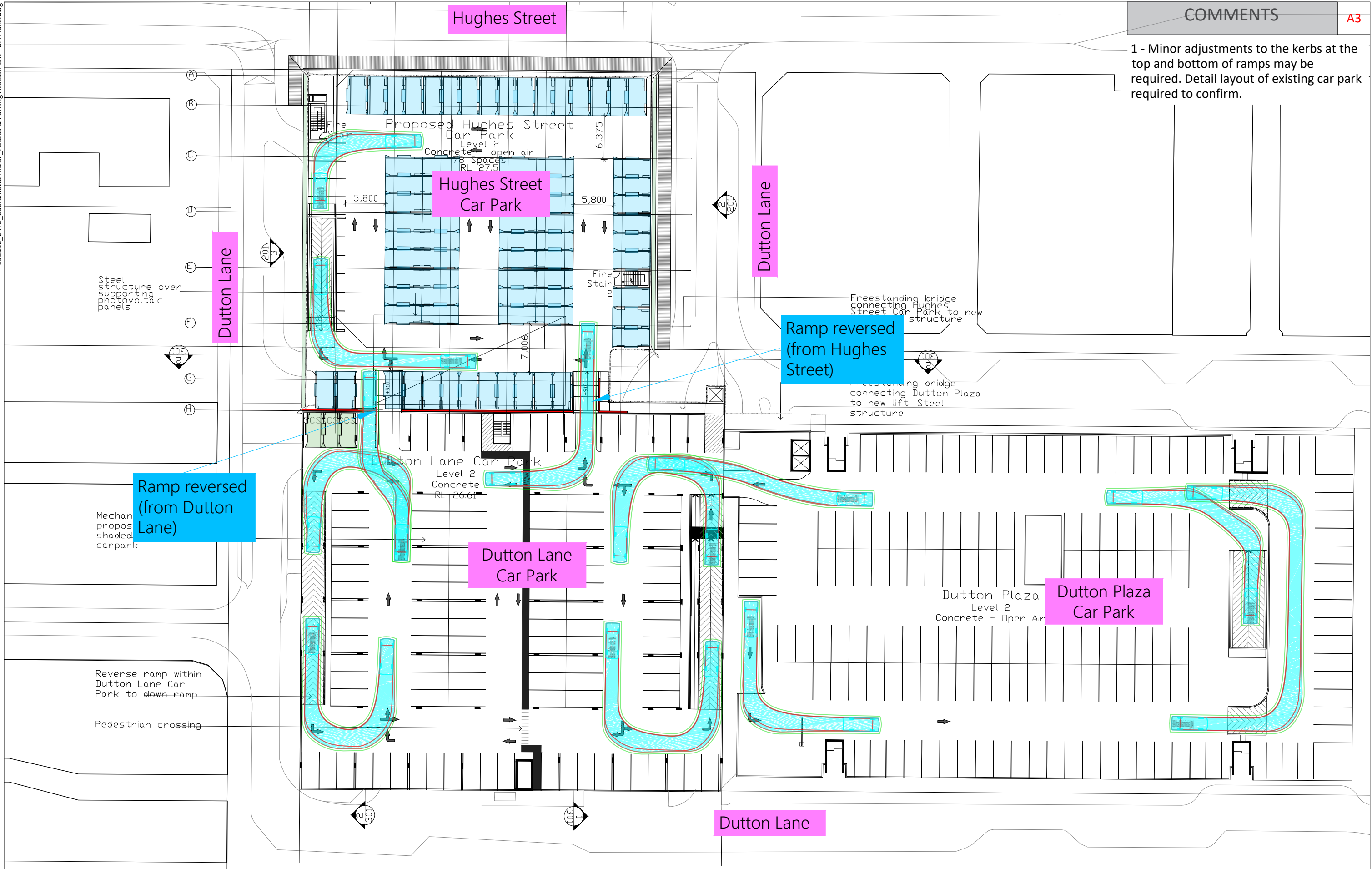
DRAWING TITLE:
 Parking & Access Assessment
 FIRST FLOOR

CLIENT: Collins & Turner
 DRG. #: PTC-003
 PROJECT #: T2-2472
 SCALE: 1:500

REV: 3

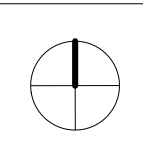
15/11/20_24/2_Cadri Affiliated Multi-Access & Parking Assessment - DA Plans.UWB

1 - Minor adjustments to the kerbs at the top and bottom of ramps may be required. Detail layout of existing car park required to confirm.



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REV	DATE	COMMENT	DRAWN	REVIEWED	REV	DATE	COMMENT	DRAWN	REVIEWED
3	30/01/19	Access & Parking Assessment	SW	AM					
2	18/12/18	Access & Parking Assessment	SW	AM					
1	22/11/18	Access & Parking Assessment	SW	AM					



PROJECT:
 Cabramatta
 Multi Deck Car Park

DRAWING TITLE:
 Parking & Access Assessment
 SECOND FLOOR

CLIENT: Collins & Turner
 DRG. #: PTC-004
 PROJECT #: T2-2472
 SCALE: 1:500

REV: 3

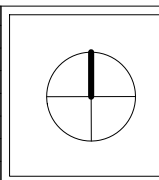
15/01/20_24/2_Cabramatta Multi-Deck Car Park - Access & Parking Assessment - DA Plans.UWS



1 - Minor adjustments to the kerbs at the top and bottom of ramps may be required. Detail layout of existing car park required to confirm.

ptc.
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REV	DATE	COMMENT	DRAWN	REVIEWED	REV	DATE	COMMENT	DRAWN	REVIEWED
3	30/01/19	Access & Parking Assessment	SW	AM					
1	22/11/18	Access & Parking Assessment	SW	AM					



PROJECT:
 Cabramatta Multi Deck Car Park

DRAWING TITLE:
 Parking & Access Assessment ROOF

CLIENT: Collins & Turner	REV: 3
DRG. #: PTC-005	
PROJECT #: T2-2472	
SCALE: 1:500	