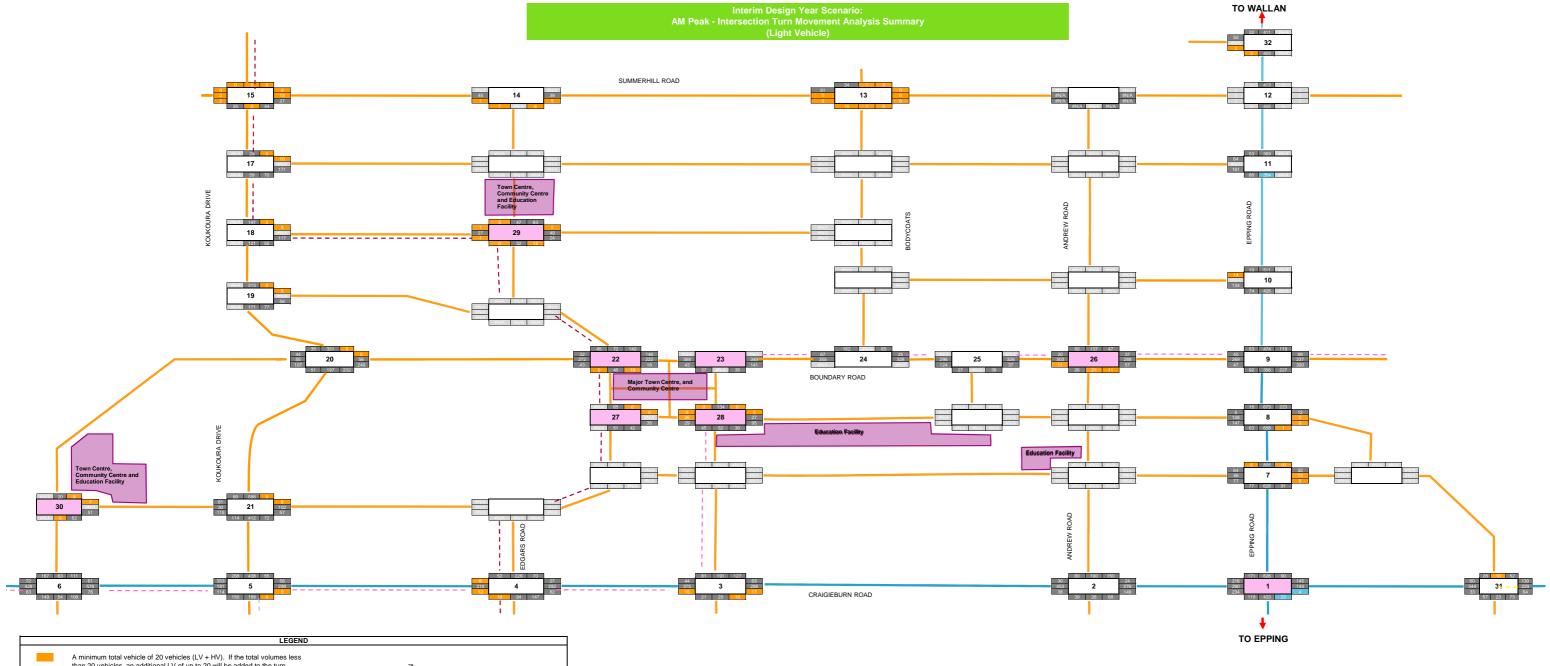
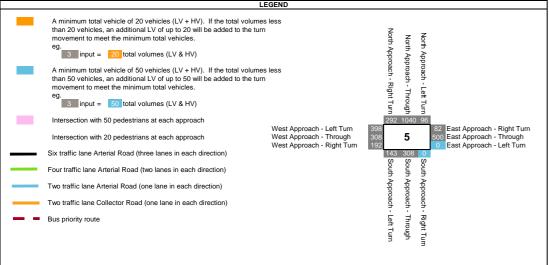
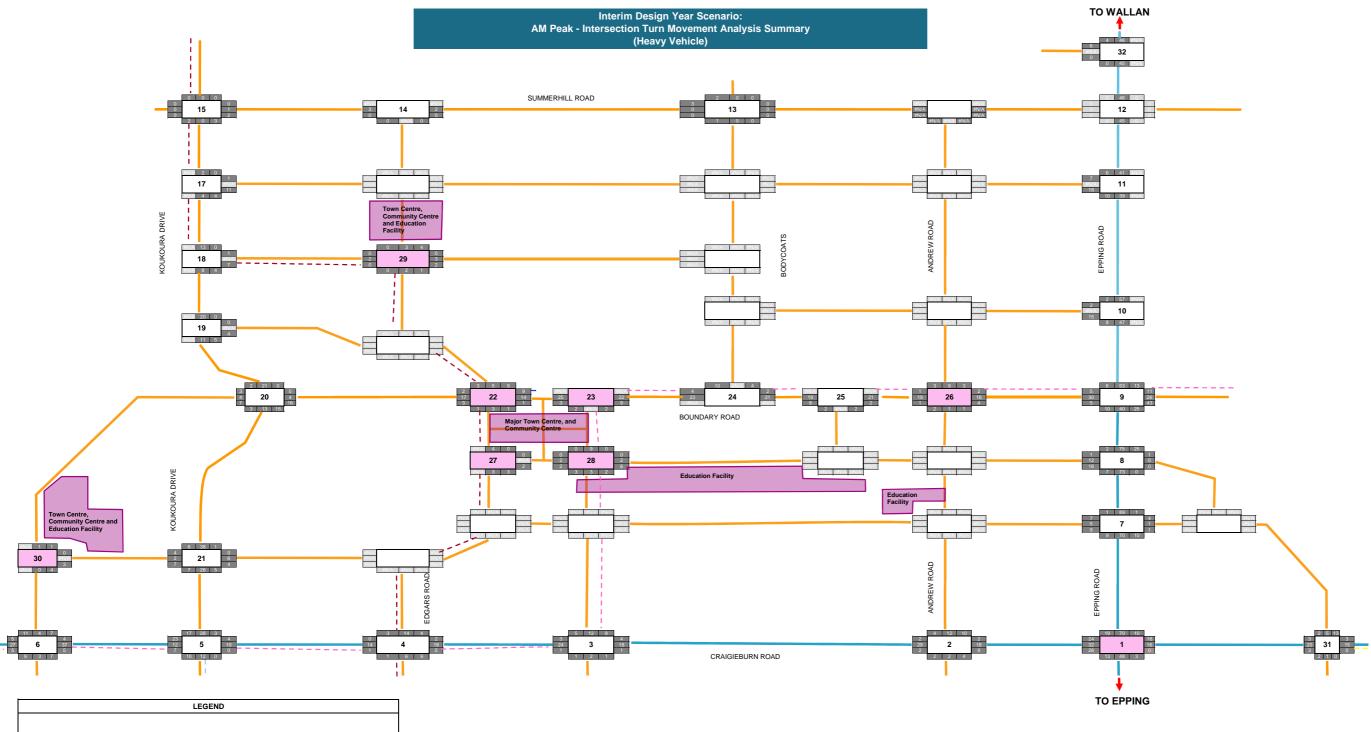
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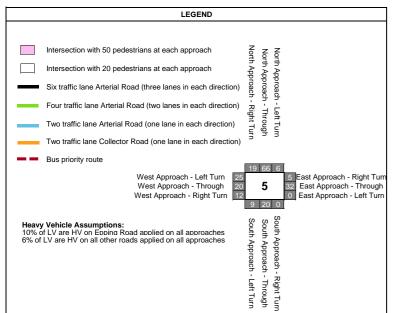
Appendix A

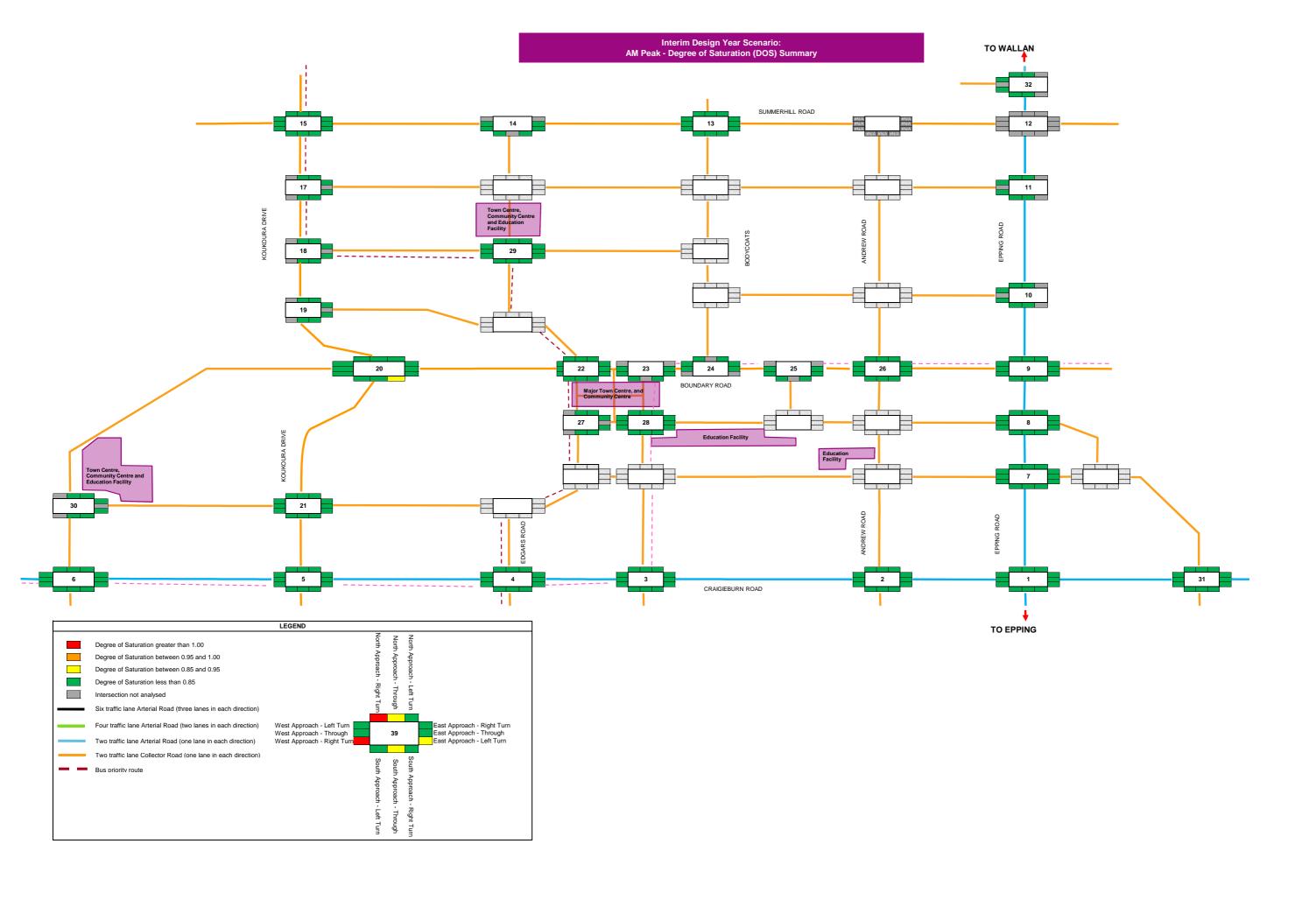
Intersection Results - Interim Scenario

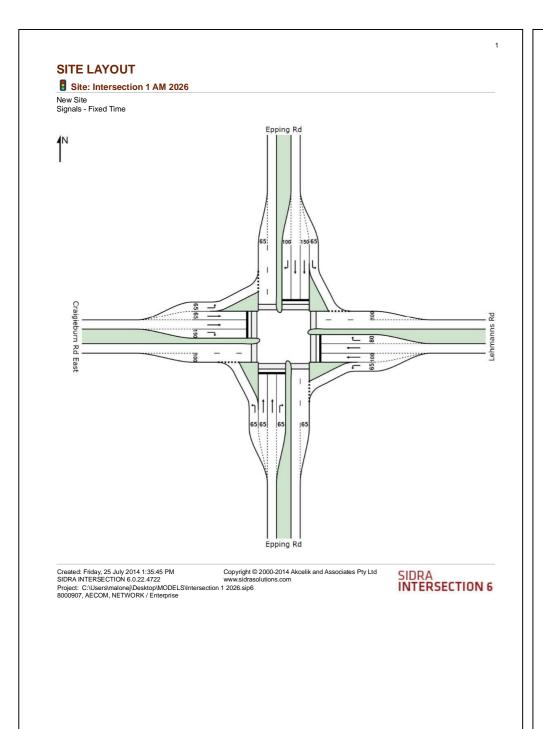












Site: Intersection 1 AM 2026

Mov	OD	Deman	d Flowe	Deg.	Average	Level of	95% Back	of Ougus	Prop.	Effective	Averag
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec	5011100	veh	m	a a a a a a a a a a a a a a a a a a a	per veh	km/
South:	Epping Rd										
1	L2	132	9.8	0.105	11.2	LOS B	1.6	12.1	0.27	0.69	63.
2	T1	481	10.0	0.617	40.8	LOS D	16.6	126.1	0.87	0.80	41.
3	R2	50	6.0	0.225	60.5	LOS E	2.7	19.9	0.94	0.75	34.
Approa	ich	663	9.7	0.617	36.4	LOS D	16.6	126.1	0.76	0.77	43
East: L	ehmanns R	d									
4	L2	50	0.0	0.055	18.5	LOS B	1.2	8.7	0.49	0.69	57
5	T1	160	10.0	0.314	46.7	LOS D	5.2	39.7	0.91	0.71	39
6	R2	161	9.9	0.484	54.7	LOS D	8.5	64.9	0.94	0.81	33
Approa	ich	371	8.6	0.484	46.4	LOS D	8.5	64.9	0.87	0.75	38
North:	Epping Rd										
7	L2	160	43.8	0.150	8.6	LOSA	1.9	18.5	0.27	0.61	47
8	T1	645	2.9	0.770	53.8	LOS D	24.7	177.5	0.92	1.08	41
9	R2	171	0.0	0.737	63.8	LOS E	10.2	71.7	1.00	0.86	30
Approa	ich	976	9.1	0.770	48.1	LOS D	24.7	177.5	0.83	0.97	39
West: 0	Craigieburn	Rd East									
10	L2	240	10.0	0.244	14.3	LOS B	5.1	38.5	0.44	0.72	53
11	T1	322	9.9	0.632	49.4	LOS D	11.2	85.3	0.96	0.79	38
12	R2	260	10.0	0.783	61.4	LOS E	15.5	117.9	1.00	0.89	33
Approa	ich	822	10.0	0.783	43.0	LOS D	15.5	117.9	0.82	0.80	39
All Veh	icles	2832	9.4	0.783	43.6	LOS D	24.7	177.5	0.81	0.84	40

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

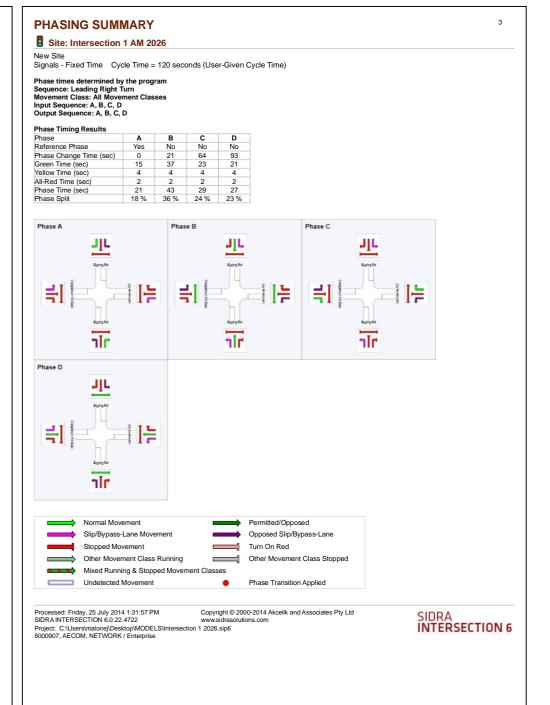
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

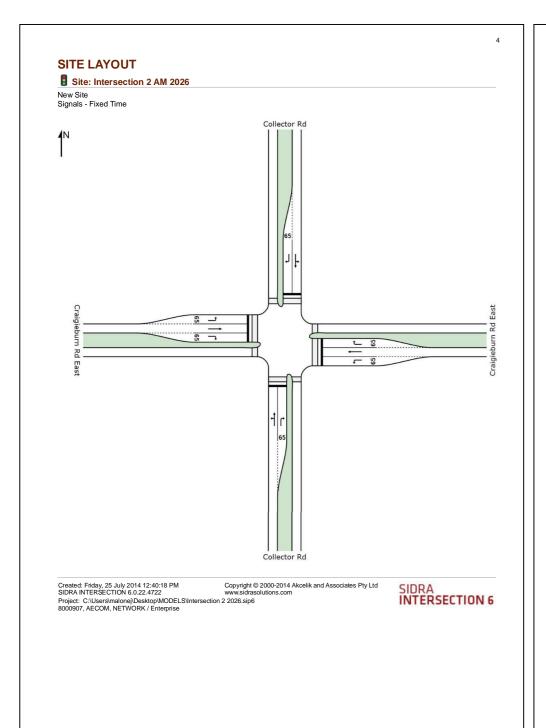
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow ped/h	Delay sec	Service	Pedestrian ped	Distance m	Queued	Stop Rate per ped
P1	South Full Crossing	50	54.3	LOS E	0.2	0.2	0.95	0.95
P2	East Full Crossing	50	40.1	LOS E	0.1	0.1	0.82	0.82
P3	North Full Crossing	50	54.3	LOS E	0.2	0.2	0.95	0.95
P4	West Full Crossing	50	40.1	LOS E	0.1	0.1	0.82	0.82
All Pe	destrians	200	47.2	LOS E			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.

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Site: Intersection 2 AM 2026

Move	ment Perfo	ormance - V	/ehicles								
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
South:	Collector R	d									
1	L2	41	4.9	0.146	29.2	LOS C	2.1	15.4	0.80	0.69	39.9
2	T1	28	7.1	0.146	24.6	LOS C	2.1	15.4	0.80	0.69	36.4
3	R2	72	5.6	0.537	46.4	LOS D	2.9	21.6	1.00	0.77	33.0
Approa	ach	141	5.7	0.537	37.1	LOS D	2.9	21.6	0.90	0.73	35.4
East: C	Craigiebum I	Rd East									
4	L2	158	5.7	0.186	20.0	LOS C	3.5	26.0	0.61	0.75	45.7
5	T1	294	6.1	0.482	23.6	LOS C	9.3	68.6	0.85	0.72	52.7
6	R2	26	7.7	0.197	47.0	LOS D	1.0	7.6	0.97	0.71	34.0
Approa	ach	478	6.1	0.482	23.7	LOS C	9.3	68.6	0.78	0.73	48.8
North:	Collector Ro	t									
7	L2	160	6.3	0.809	40.4	LOS D	15.0	110.2	1.00	0.98	35.7
8	T1	202	5.9	0.809	35.8	LOS D	15.0	110.2	1.00	0.98	33.0
9	R2	64	6.3	0.480	46.0	LOS D	2.6	19.2	1.00	0.75	33.1
Approa	ach	426	6.1	0.809	39.1	LOS D	15.0	110.2	1.00	0.95	33.9
West: 0	Craigieburn	Rd East									
10	L2	32	6.3	0.038	19.0	LOS B	0.7	4.9	0.56	0.70	46.3
11	T1	482	6.0	0.813	31.5	LOS C	19.2	141.3	0.97	0.93	47.3
12	R2	40	5.0	0.297	47.4	LOS D	1.6	11.6	0.98	0.73	33.9
Approa	ach	554	6.0	0.813	31.9	LOS C	19.2	141.3	0.95	0.90	46.0
All Veh	nicles	1599	6.0	0.813	31.8	LOS C	19.2	141.3	0.91	0.85	41.7

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

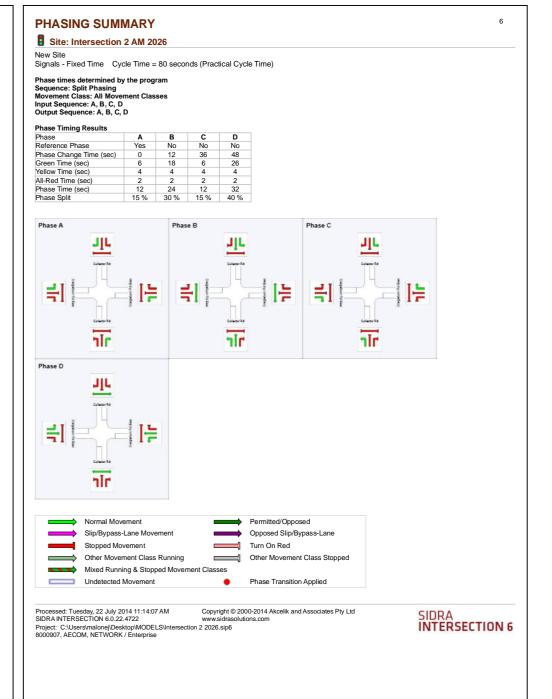
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

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

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	24.8	LOS C	0.0	0.0	0.79	0.79
P2	East Full Crossing	20	34.3	LOS D	0.0	0.0	0.93	0.93
P3	North Full Crossing	20	24.8	LOS C	0.0	0.0	0.79	0.79
P4	West Full Crossing	20	34.3	LOS D	0.0	0.0	0.93	0.93
All Pe	destrians	80	29.5	LOS C			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.

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SIDRA INTERSECTION 6

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MOVEMENT SUMMARY

Site: Intersection 3 AM 2026

Mov	OD	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
	Mov	Total		Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
South:	Collector R	d									
1	L2	22	4.5	0.101	32.5	LOS C	1.9	13.9	0.76	0.64	38.9
2	T1	31	6.5	0.101	27.9	LOS C	1.9	13.9	0.76	0.64	35.5
3	R2	20	5.0	0.139	52.9	LOS D	1.0	6.9	0.96	0.70	31.2
Approa	ach	73	5.5	0.139	36.1	LOS D	1.9	13.9	0.82	0.66	35.1
East: C	Craigieburn I	Rd East									
4	L2	20	5.0	0.023	21.4	LOS C	0.5	3.7	0.55	0.69	44.9
5	T1	306	5.9	0.479	28.1	LOS C	11.8	86.8	0.84	0.72	49.5
6	R2	73	5.5	0.583	59.3	LOS E	3.7	27.3	1.00	0.78	30.5
Approa	ach	399	5.8	0.583	33.5	LOS C	11.8	86.8	0.85	0.73	44.3
North:	Collector Ro	d									
7	L2	135	5.9	0.650	38.4	LOS D	14.6	107.4	0.93	0.82	36.5
8	T1	203	5.9	0.650	33.8	LOS C	14.6	107.4	0.93	0.82	33.6
9	R2	86	5.8	0.603	56.0	LOS E	4.4	32.0	1.00	0.80	30.3
Approa	ach	424	5.9	0.650	39.8	LOS D	14.6	107.4	0.95	0.81	33.7
West: (Craigieburn	Rd East									
10	L2	47	6.4	0.034	8.3	LOSA	0.3	1.9	0.18	0.64	54.4
11	T1	399	6.0	0.641	29.9	LOS C	16.4	120.7	0.90	0.78	48.3
12	R2	20	5.0	0.159	56.6	LOS E	1.0	7.1	0.97	0.70	31.2
Approa	ach	466	6.0	0.641	28.9	LOS C	16.4	120.7	0.83	0.76	47.7
All Veh	nides	1362	5.9	0.650	34.0	LOS C	16.4	120.7	0.87	0.76	40.7

Level of Service (LOS) Method: Delay (HCM 2000).

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).

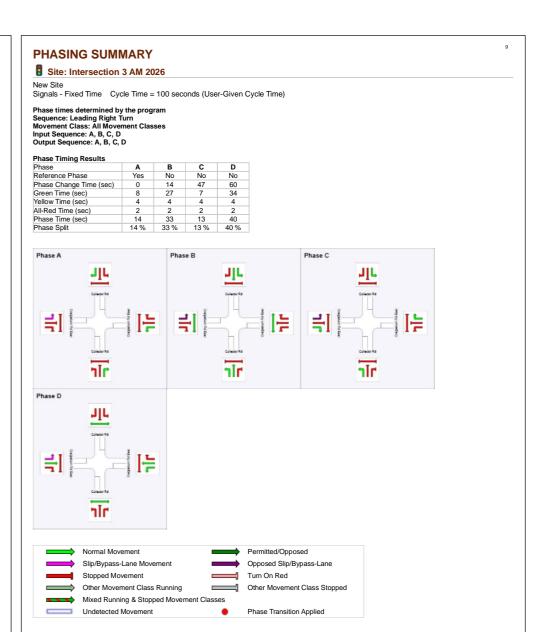
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	28.1	LOS C	0.0	0.0	0.75	0.75
P2	East Full Crossing	20	36.2	LOS D	0.0	0.0	0.85	0.85
P3	North Full Crossing	20	28.1	LOS C	0.0	0.0	0.75	0.75
P4	West Full Crossing	20	33.6	LOS D	0.0	0.0	0.82	0.82
All Pe	destrians	80	31.5	LOS D			0.79	0.79

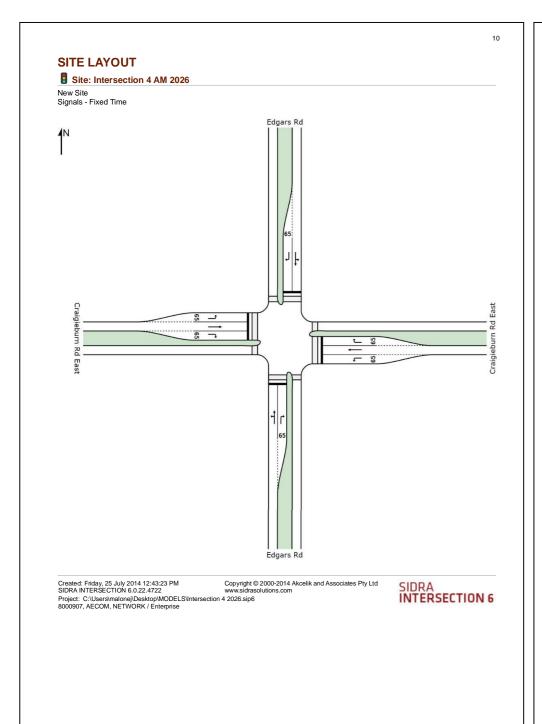
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

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INTERSECTION 6



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Site: Intersection 4 AM 2026

Mov	OD	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
	Mov	Total		Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/r
South:	Edgars Rd										
1	L2	20	5.0	0.253	31.1	LOS C	3.8	27.6	0.83	0.71	42.7
2	T1	100	6.0	0.253	26.7	LOS C	3.8	27.6	0.83	0.71	38.8
3	R2	156	5.8	0.636	43.1	LOS D	6.1	45.1	0.99	0.83	36.1
Approa	ich	276	5.8	0.636	36.3	LOS D	6.1	45.1	0.92	0.78	37.4
East: C	raigiebum F	Rd East									
4	L2	87	5.7	0.108	20.7	LOS C	2.0	14.3	0.61	0.73	48.3
5	T1	300	6.0	0.673	31.1	LOS C	11.1	81.4	0.96	0.83	47.6
6	R2	29	6.9	0.218	47.1	LOS D	1.1	8.5	0.97	0.72	34.0
Approa	ich	416	6.0	0.673	30.0	LOS C	11.1	81.4	0.89	0.80	46.4
North: I	Edgars Rd										
7	L2	74	5.4	0.657	33.8	LOS C	11.3	82.6	0.95	0.83	38.6
8	T1	240	5.8	0.657	30.9	LOS C	11.3	82.6	0.95	0.83	37.6
9	R2	55	5.5	0.224	39.0	LOS D	2.0	14.6	0.93	0.74	35.4
Approa	ich	369	5.7	0.657	32.7	LOS C	11.3	82.6	0.94	0.82	37.4
West: 0	Craigieburn	Rd East									
10	L2	20	0.0	0.024	19.9	LOS B	0.4	3.0	0.58	0.69	45.8
11	T1	232	6.0	0.521	29.3	LOS C	8.1	59.5	0.92	0.77	48.7
12	R2	20	5.0	0.149	46.6	LOS D	0.8	5.7	0.97	0.70	35.8
Approa	ich	272	5.5	0.521	29.9	LOS C	8.1	59.5	0.90	0.75	47.
All Veh	icles	1333	5.8	0.673	32.0	LOS C	11.3	82.6	0.91	0.79	41.

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

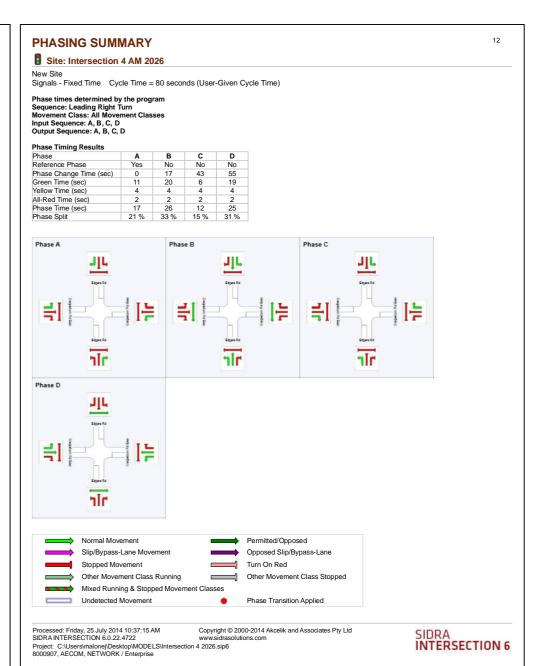
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

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

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	30.7	LOS D	0.0	0.0	0.88	0.88
P2	East Full Crossing	20	32.4	LOS D	0.0	0.0	0.90	0.90
P3	North Full Crossing	20	30.7	LOS D	0.0	0.0	0.88	0.88
P4	West Full Crossing	20	32.4	LOS D	0.0	0.0	0.90	0.90
All Pe	destrians	80	31.5	LOS D			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.

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SIDRA INTERSECTION 6

SITE LAYOUT Site: Intersection 5 AM 2026 New Site Signals - Fixed Time Koukoura Rd Created: Thursday, 21 August 2014 1:13:17 PM SIDRA INTERSECTION 6.0.22.4722 Project: P:\60313908\4. Tech work area\4.5 Planning\SIDRA MODEL\Interim\MODEL\Interim\MODEL\Intersection 5 2026.sip6 8000907, AECOM, NETWORK / Enterprise INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 5 AM 2026

Move	ment Perfo	ormance - V	ehicles								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/l
South:	Koukoura F	Rd									
1	L2	160	6.3	0.189	24.9	LOS C	5.3	39.2	0.61	0.73	43.9
2	T1	201	6.0	0.223	29.6	LOS C	5.9	43.5	0.74	0.60	40.
3	R2	50	0.0	0.135	48.2	LOS D	2.4	16.9	0.86	0.73	35.
Appro	ach	411	5.4	0.223	30.0	LOS C	5.9	43.5	0.70	0.67	40.
East: (Craigiebum I	Rd East									
4	L2	50	0.0	0.063	28.4	LOS C	1.7	11.9	0.62	0.72	43.
5	T1	387	4.9	0.833	55.1	LOS E	17.1	124.9	0.98	0.88	36.
6	R2	60	6.7	0.406	66.0	LOS E	3.5	25.9	0.99	0.76	31.
Appro	ach	497	4.6	0.833	53.8	LOS D	17.1	124.9	0.94	0.85	36.
North:	Koukoura R	d									
7	L2	109	2.8	0.126	25.6	LOS C	3.5	25.1	0.59	0.74	48.
8	T1	477	5.9	0.814	43.9	LOS D	26.3	193.7	0.95	0.90	37.
9	R2	285	6.0	0.800	61.4	LOS E	17.1	126.1	1.00	0.89	32.8
Appro	ach	871	5.5	0.814	47.3	LOS D	26.3	193.7	0.92	0.88	36.
West:	Craigieburn	Rd East									
10	L2	376	6.1	0.513	33.9	LOS C	15.9	117.3	0.78	0.82	43.
11	T1	193	6.2	0.588	49.9	LOS D	10.6	78.1	0.97	0.80	38.
12	R2	121	5.8	0.814	73.0	LOS E	7.7	56.7	1.00	0.90	28.
Appro	ach	690	6.1	0.814	45.3	LOS D	15.9	117.3	0.87	0.83	38.
All Vel	nides	2469	5.5	0.833	45.1	LOS D	26.3	193.7	0.88	0.82	37.

Level of Service (LOS) Method: Delay (HCM 2000).

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).

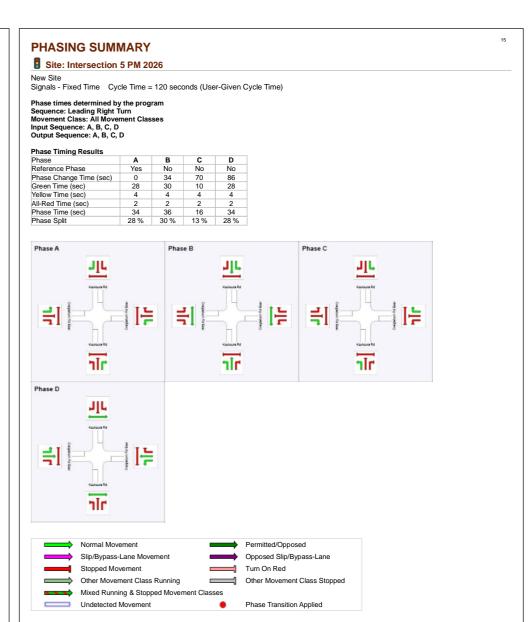
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	54.2	LOS E	0.1	0.1	0.95	0.95
P2	East Full Crossing	20	36.8	LOS D	0.1	0.1	0.78	0.78
P3	North Full Crossing	20	54.2	LOS E	0.1	0.1	0.95	0.95
P4	West Full Crossing	20	36.8	LOS D	0.1	0.1	0.78	0.78
All Pe	destrians	80	45.5	LOS E			0.87	0.87

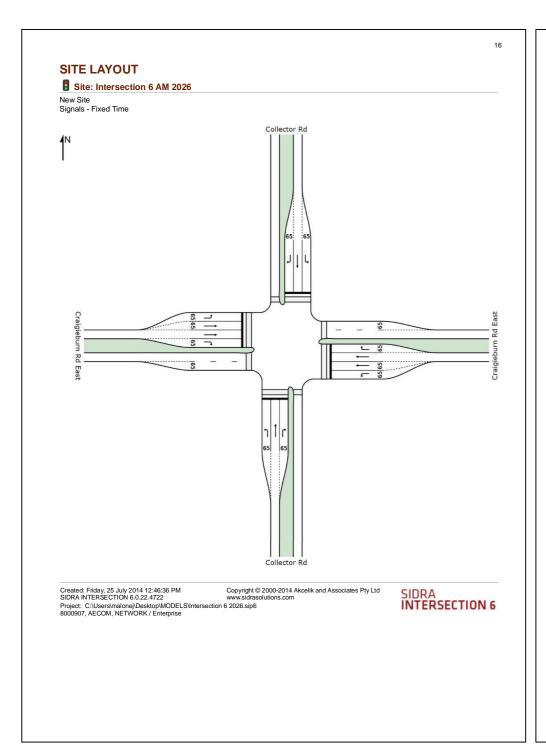
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

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INTERSECTION 6



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Site: Intersection 6 AM 2026

Move	ment Perfo	ormance - V	ehicles/								
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
0		veh/h	%	v/c	sec		veh	m		per veh	km/r
	Collector R										
1	L2	158	5.7	0.246	28.8	LOS C	5.4	39.7	0.74	0.75	39.2
2	T1	57	5.3	0.131	33.1	LOS C	2.2	16.2	0.83	0.64	34.5
3	R2	115	6.1	0.497	49.9	LOS D	5.4	40.0	0.98	0.79	32.1
Approa	ach	330	5.8	0.497	36.9	LOS D	5.4	40.0	0.84	0.74	35.6
East: 0	Craigiebum I	Rd East									
4	L2	81	6.2	0.088	19.8	LOS B	2.0	14.4	0.53	0.72	45.8
5	T1	615	6.0	0.751	31.2	LOS C	19.1	140.7	0.89	0.78	47.5
6	R2	65	6.2	0.522	59.0	LOS E	3.3	24.2	1.00	0.76	30.9
Approa	ach	761	6.0	0.751	32.4	LOS C	19.1	140.7	0.86	0.77	45.3
North:	Collector Ro	d									
7	L2	118	5.9	0.184	28.1	LOS C	3.9	28.9	0.72	0.73	39.4
8	T1	67	6.0	0.155	33.3	LOS C	2.6	19.3	0.84	0.65	34.4
9	R2	178	6.2	0.770	54.7	LOS D	9.2	67.6	1.00	0.91	30.8
Approa	ach	363	6.1	0.770	42.1	LOS D	9.2	67.6	0.88	0.80	33.8
West:	Craigieburn	Rd East									
10	L2	77	6.5	0.083	19.8	LOS B	1.9	13.7	0.53	0.72	45.8
11	T1	455	5.9	0.528	28.4	LOS C	13.0	95.7	0.83	0.71	49.4
12	R2	88	5.7	0.704	61.2	LOS E	4.6	33.8	1.00	0.83	30.3
Approa	ach	620	6.0	0.704	32.0	LOS C	13.0	95.7	0.82	0.72	44.9
All Veh	hicles	2074	6.0	0.770	34.7	LOS C	19.1	140.7	0.85	0.76	41.0

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

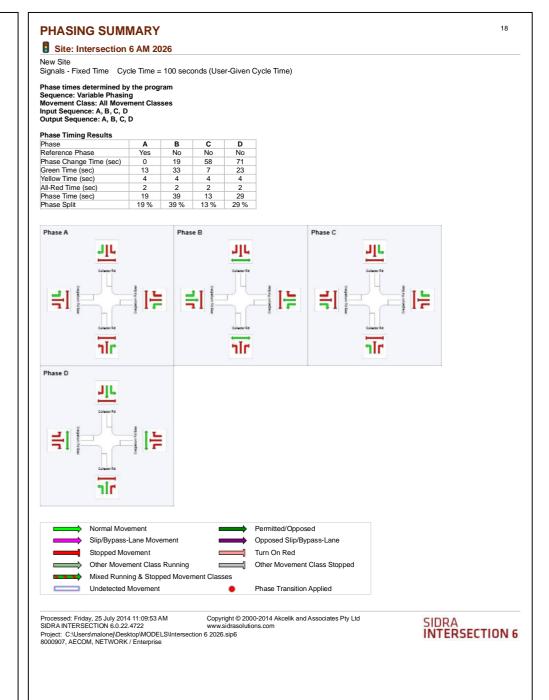
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

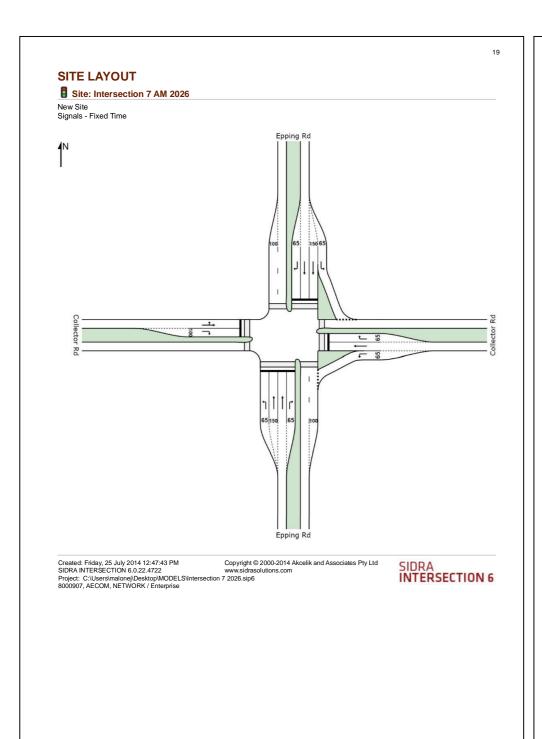
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov		Demand	Average		Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	31.2	LOS D	0.0	0.0	0.79	0.79
P2	East Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P3	North Full Crossing	20	31.2	LOS D	0.0	0.0	0.79	0.79
P4	West Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
All Pe	destrians	80	37.7	LOS D			0.87	0.87

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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Site: Intersection 7 AM 2026

New Site Signals - Fixed Time Cycle Time = 100 seconds (Practical Cycle Time)

Move	ment Perfo	rmance - \	Vehicles								
Mov ID	OD Mov	Demand Total veh/h	d Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Epping Rd		- /-								
1	L2	86	10.5	0.098	19.1	LOS B	2.1	16.3	0.54	0.70	42.1
2	T1	696	10.1	0.676	25.1	LOS C	16.6	126.5	0.82	0.71	42.5
3	R2	101	9.9	0.728	59.2	LOS E	5.3	40.2	1.00	0.86	28.9
Approa	ach	883	10.1	0.728	28.4	LOS C	16.6	126.5	0.81	0.72	40.3
East: 0	Collector Rd										
4	L2	20	5.0	0.022	12.8	LOS B	0.4	2.8	0.46	0.60	45.1
5	T1	20	5.0	0.046	32.2	LOS C	8.0	5.5	0.81	0.58	34.8
6	R2	36	11.1	0.349	57.0	LOS E	1.8	13.9	0.99	0.73	29.1
Approa	ach	76	7.9	0.349	38.8	LOS D	1.8	13.9	0.81	0.66	33.7
North:	Epping Rd										
7	L2	20	5.0	0.015	6.8	LOSA	0.1	0.9	0.20	0.58	49.7
8	T1	894	10.0	0.815	30.0	LOS C	26.7	203.1	0.89	0.83	40.2
9	R2	20	5.0	0.139	53.9	LOS D	1.0	6.9	0.96	0.70	30.1
Approa	ach	934	9.7	0.815	30.0	LOS C	26.7	203.1	0.88	0.82	40.1
West:	Collector Rd										
10	L2	71	9.9	0.267	36.6	LOS D	4.8	36.3	0.84	0.73	35.2
11	T1	51	9.8	0.267	32.0	LOS C	4.8	36.3	0.84	0.73	34.0
12	R2	86	10.5	0.829	63.3	LOS E	4.8	36.3	1.00	0.96	27.7
Approa	ach	208	10.1	0.829	46.5	LOS D	4.8	36.3	0.90	0.82	31.4
All Veh	nicles	2101	9.9	0.829	31.3	LOS C	26.7	203.1	0.85	0.78	38.8

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

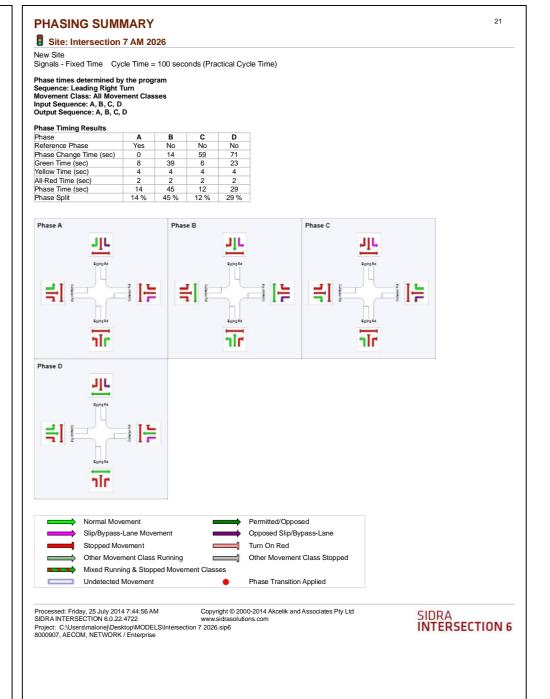
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

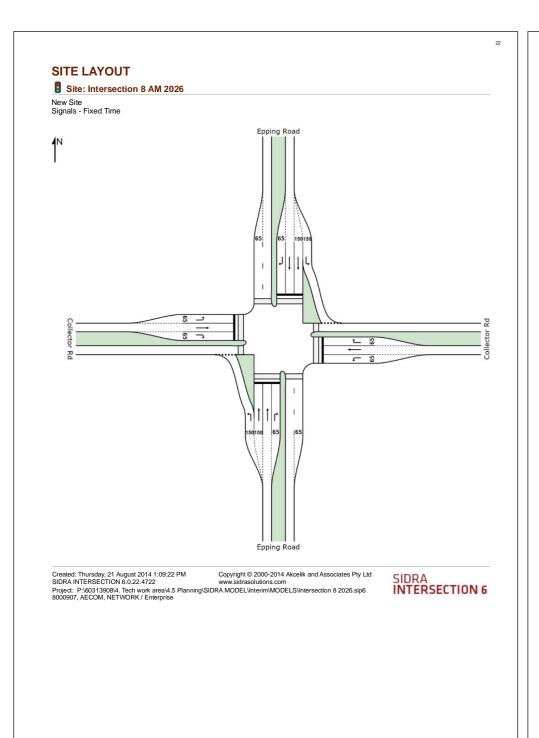
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P2	East Full Crossing	20	24.5	LOS C	0.0	0.0	0.70	0.70
P3	North Full Crossing	20	42.4	LOS E	0.1	0.1	0.92	0.92
P4	West Full Crossing	20	24.5	LOS C	0.0	0.0	0.70	0.70
All Pe	destrians	80	33.9	LOS D			0.82	0.82

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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Site: Intersection 8 AM 2026

Mov	OD	Deman	d Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
	Mov	Total		Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
South:	Epping Roa	d									
1	L2	70	10.0	0.048	6.2	LOSA	0.3	1.9	0.14	0.58	50.0
2	T1	731	10.0	0.787	30.1	LOS C	23.8	180.6	0.89	0.81	40.2
3	R2	20	0.0	0.179	56.7	LOS E	1.0	6.9	0.98	0.70	29.5
Approa	ach	821	9.7	0.787	28.7	LOS C	23.8	180.6	0.83	0.79	40.5
East: C	Collector Rd										
4	L2	20	0.0	0.033	28.7	LOS C	0.7	4.6	0.70	0.67	37.5
5	T1	20	0.0	0.049	33.9	LOS C	0.8	5.4	0.83	0.59	34.2
6	R2	20	5.0	0.093	47.8	LOS D	0.9	6.5	0.92	0.70	31.5
Approa	ach	60	1.7	0.093	36.8	LOS D	0.9	6.5	0.82	0.65	34.2
North:	Epping Roa	d									
7	L2	248	10.1	0.181	6.9	LOSA	1.8	13.4	0.23	0.61	49.6
8	T1	748	10.0	0.806	31.1	LOS C	25.0	190.0	0.90	0.83	39.7
9	R2	20	10.0	0.192	57.1	LOS E	1.0	7.5	0.98	0.70	29.4
Approa	ach	1016	10.0	0.806	25.7	LOS C	25.0	190.0	0.74	0.78	41.5
West: 0	Collector Rd										
10	L2	20	5.0	0.034	28.7	LOS C	0.7	4.8	0.70	0.67	37.4
11	T1	120	10.0	0.312	36.5	LOS D	5.0	38.2	0.89	0.71	33.4
12	R2	163	9.8	0.783	56.2	LOS E	8.5	64.6	1.00	0.92	29.3
Approa	ach	303	9.6	0.783	46.6	LOS D	8.5	64.6	0.94	0.82	31.3
All Veh	nicles	2200	9.6	0.806	30.0	LOS C	25.0	190.0	0.80	0.78	39.1

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

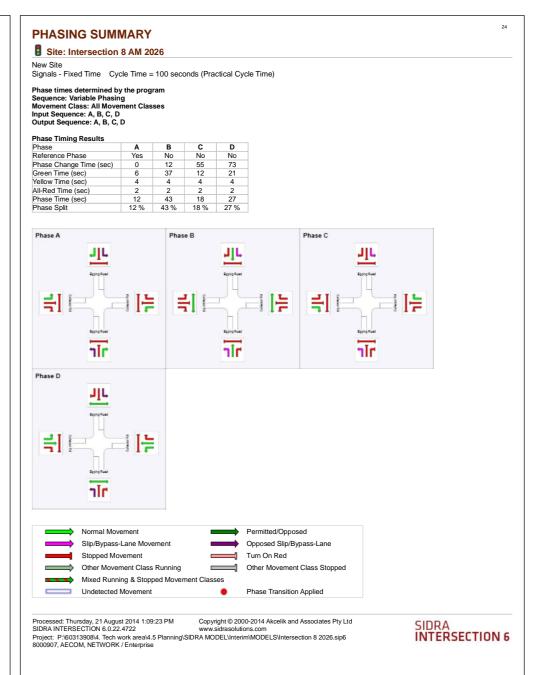
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

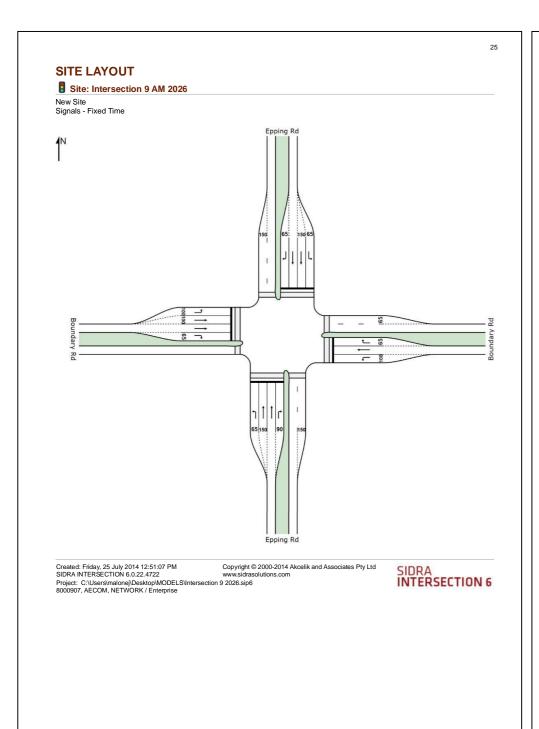
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P2	East Full Crossing	20	28.1	LOS C	0.0	0.0	0.75	0.75
P3	North Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P4	West Full Crossing	20	28.1	LOS C	0.0	0.0	0.75	0.75
All Pe	destrians	80	36.2	LOS D			0.85	0.85

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: Intersection 9 AM 2026

Mover	nent Perfo	ormance - \									
Mov	OD	Deman		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
ID	Mov	Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance	Queued	Stop Rate per veh	Speed km/r
South:	Epping Rd	vervn	70	V/C	Sec		ven	m		per ven	KIII/I
1	L2	102	9.8	0.159	28.2	LOS C	3.3	25.2	0.70	0.74	40.0
2	T1	396	10.1	0.562	38.5	LOS D	9.6	73.3	0.94	0.77	36.8
3	R2	252	9.9	0.660	45.1	LOS D	11.5	87.7	0.97	0.84	35.1
Approa		750	10.0	0.660	39.3	LOS D	11.5	87.7	0.92	0.79	36.0
East: B	oundary Ro	i									
4	L2	433	9.9	0.490	24.3	LOS C	13.7	104.2	0.70	0.81	46.0
5	T1	263	9.9	0.624	40.2	LOS D	11.8	89.2	0.95	0.82	39.
6	R2	110	10.0	0.635	57.2	LOS E	5.5	41.9	1.00	0.81	32.
Approa	ich	806	9.9	0.635	34.0	LOS C	13.7	104.2	0.82	0.81	41.4
North: I	Epping Rd										
7	L2	124	4.0	0.186	28.4	LOS C	4.1	29.5	0.71	0.74	42.4
8	T1	487	2.7	0.660	39.4	LOS D	12.2	87.1	0.96	0.80	36.
9	R2	59	10.2	0.155	40.0	LOS D	2.3	17.9	0.84	0.74	35.8
Approa	ich	670	3.6	0.660	37.4	LOS D	12.2	87.1	0.90	0.79	37.
West: E	Boundary R	d									
10	L2	50	10.0	0.057	18.7	LOS B	1.2	9.2	0.53	0.68	44.
11	T1	299	10.0	0.500	40.8	LOS D	9.1	69.1	0.90	0.84	41.0
12	R2	52	9.6	0.299	52.8	LOS D	2.5	18.7	0.97	0.75	31.8
Approa	ich	401	10.0	0.500	39.6	LOS D	9.1	69.1	0.86	0.81	39.
All Veh	icles	2627	8.3	0.660	37.2	LOS D	13.7	104.2	0.88	0.80	38.

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

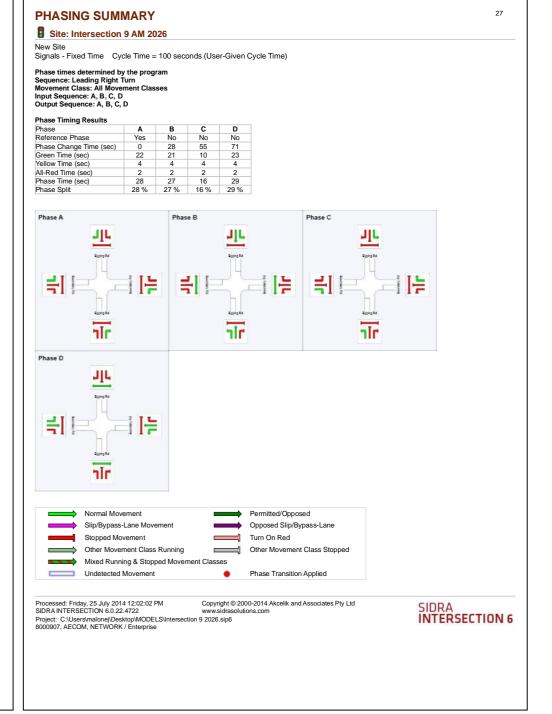
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

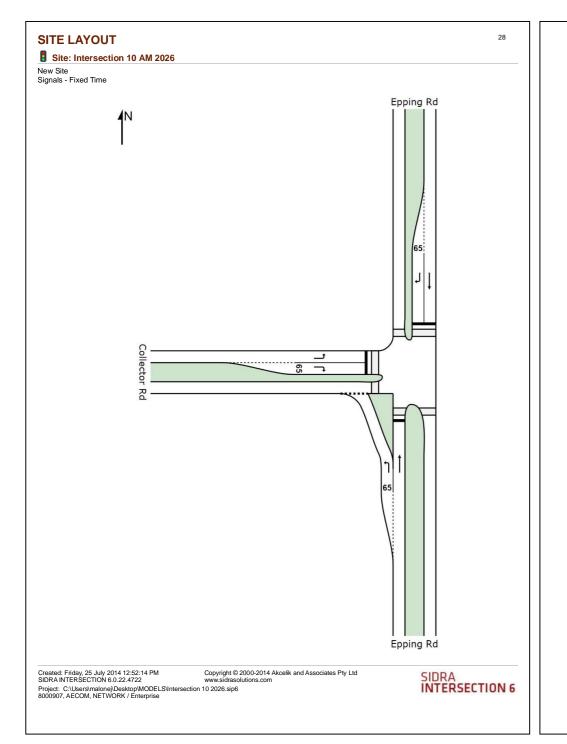
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

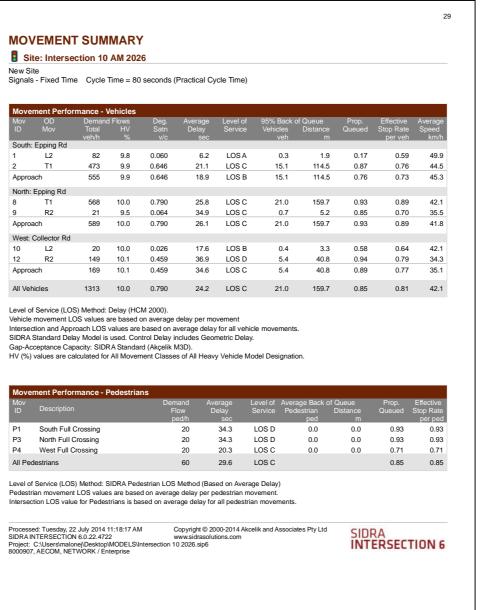
Move	ment Performance - Pedestrians							
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate per ped
P1	South Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P2	East Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P3	North Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P4	West Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
All Pe	destrians	80	44.2	LOS E			0.94	0.94

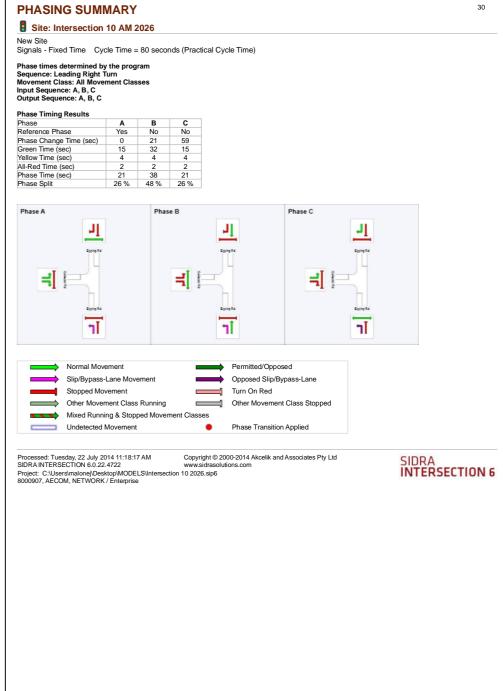
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

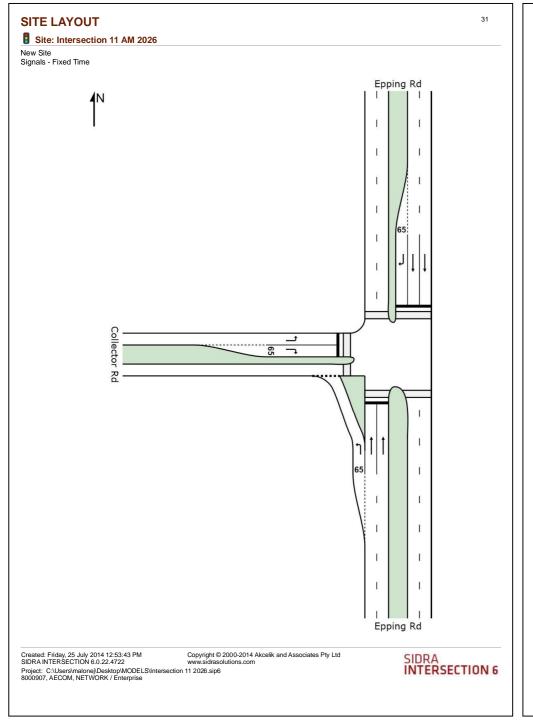
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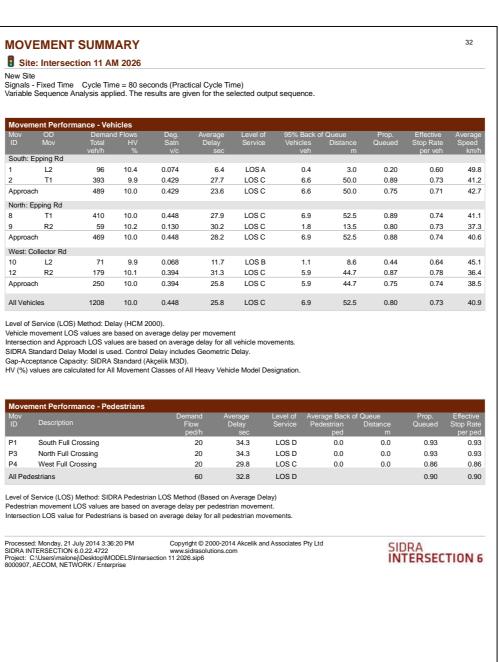


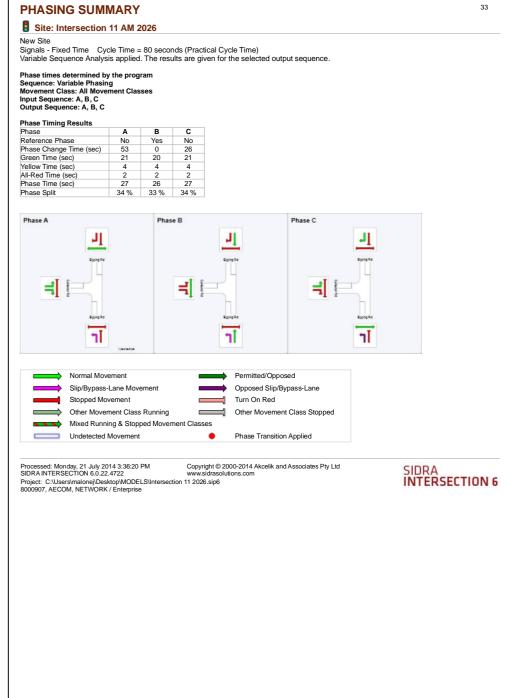


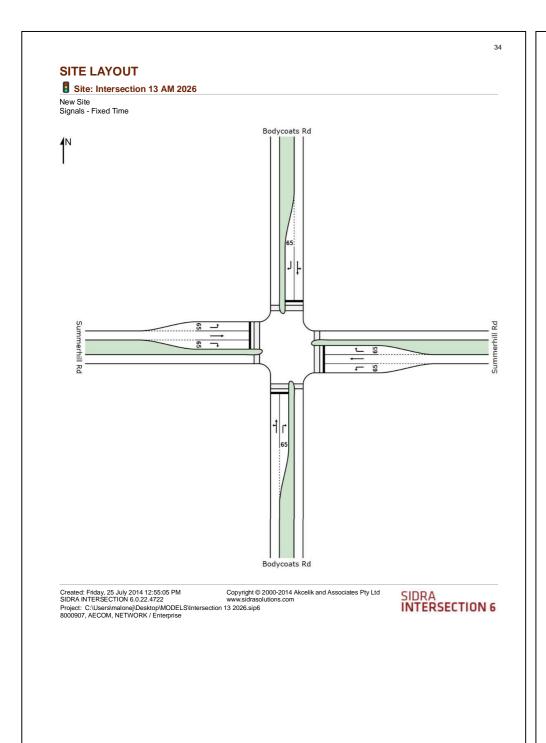












Site: Intersection 13 AM 2026

Mov	OD	Demano		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
	Mov	Total		Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
South:	Bodycoats I										
1	L2	20	5.0	0.075	24.4	LOS C	1.0	7.2	0.76	0.63	42.3
2	T1	20	0.0	0.075	19.8	LOS B	1.0	7.2	0.76	0.63	38.4
3	R2	20	0.0	0.108	37.1	LOS D	0.7	4.6	0.94	0.69	36.6
Approa	ach	60	1.7	0.108	27.1	LOS C	1.0	7.2	0.82	0.65	39.0
East: S	Summerhill F	Rd									
4	L2	20	0.0	0.027	20.5	LOS C	0.4	2.9	0.63	0.69	45.4
5	T1	20	0.0	0.048	23.8	LOS C	0.5	3.8	0.82	0.59	52.6
6	R2	20	0.0	0.126	40.7	LOS D	0.7	4.7	0.95	0.70	36.2
Approa	ach	60	0.0	0.126	28.3	LOS C	0.7	4.7	0.80	0.66	43.7
North:	Bodycoats F	Rd									
7	L2	20	0.0	0.074	24.3	LOS C	1.0	7.0	0.76	0.63	43.0
8	T1	20	0.0	0.074	19.8	LOS B	1.0	7.0	0.76	0.63	38.4
9	R2	36	5.6	0.202	37.7	LOS D	1.2	8.8	0.95	0.72	35.8
Approa	ach	76	2.6	0.202	29.5	LOS C	1.2	8.8	0.85	0.67	38.2
West: \$	Summerhill	Rd									
10	L2	54	5.6	0.076	21.0	LOS C	1.1	8.4	0.65	0.72	45.2
11	T1	20	0.0	0.048	23.8	LOS C	0.5	3.8	0.82	0.59	52.6
12	R2	20	0.0	0.126	40.7	LOS D	0.7	4.7	0.95	0.70	36.2
Approa	ach	94	3.2	0.126	25.8	LOS C	1.1	8.4	0.75	0.69	44.2
All Veh	nicles	290	2.1	0.202	27.5	LOS C	1.2	8.8	0.80	0.67	41.2

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

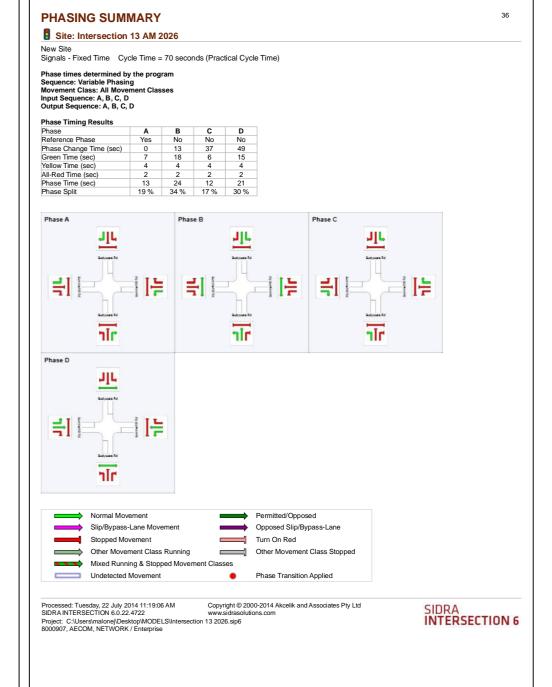
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

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

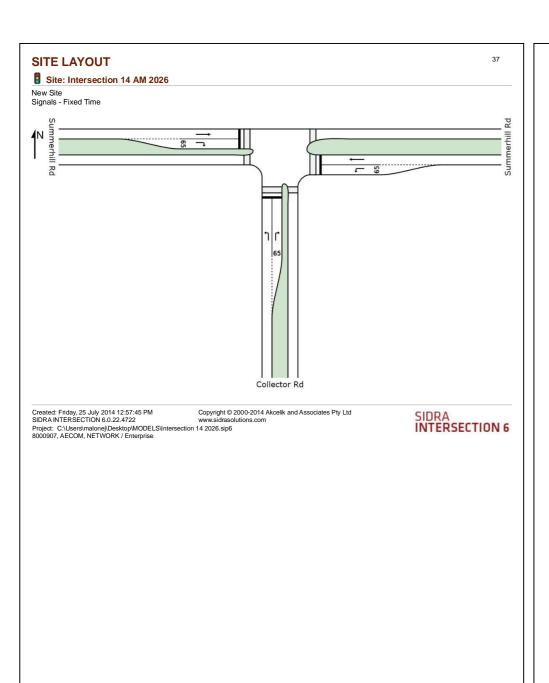
Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
P2	East Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
P3	North Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
P4	West Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
All Pe	destrians	80	29.3	LOS C			0.92	0.92

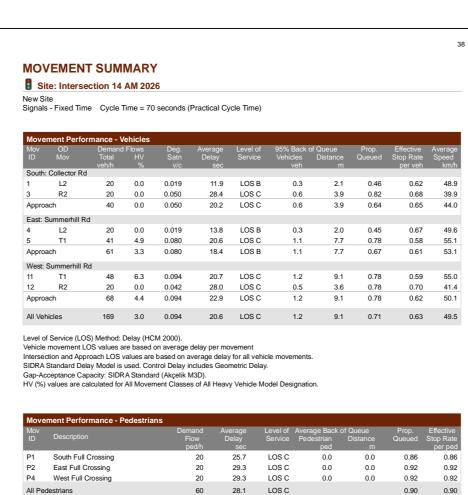
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

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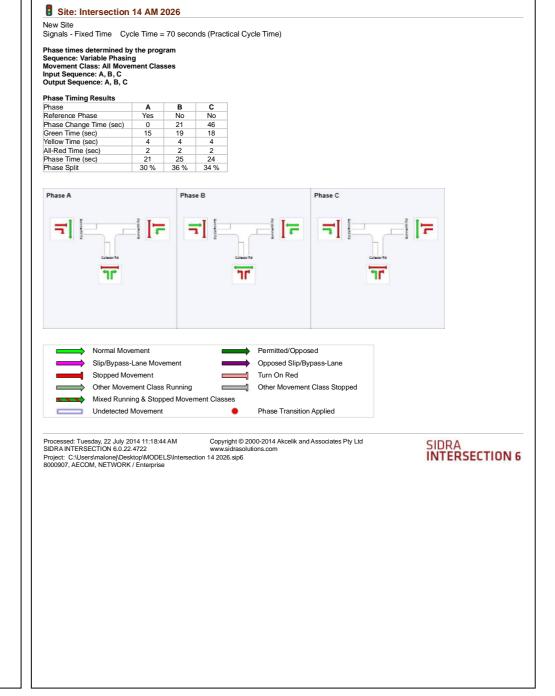




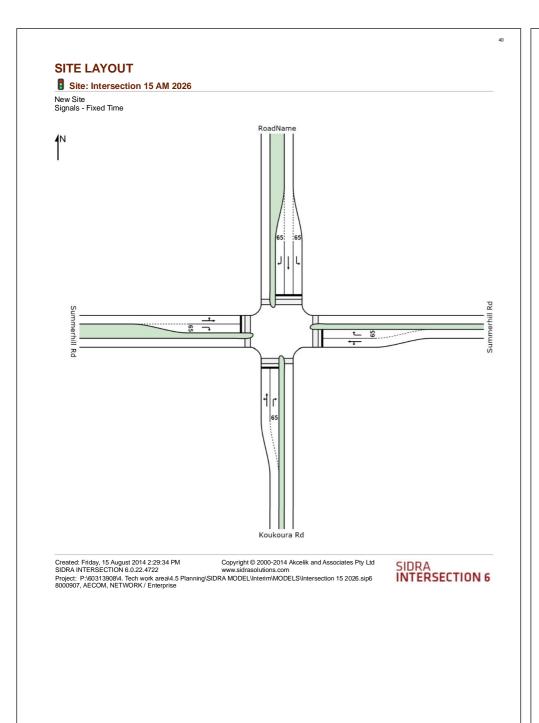
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

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SIDRA INTERSECTION 6



PHASING SUMMARY



Site: Intersection 15 AM 2026

Move	ment Perfo	rmance - V	ehicles								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Koukoura R	ld .									
1	L2	27	7.4	0.115	28.9	LOS C	1.4	10.0	0.80	0.68	47.8
2	T1	25	0.0	0.115	21.8	LOS C	1.4	10.0	0.80	0.68	51.5
3	R2	47	6.4	0.265	40.4	LOS D	1.6	11.7	0.96	0.74	40.0
Approa	ach	99	5.1	0.265	32.6	LOS C	1.6	11.7	0.88	0.71	44.5
East: S	Summerhill R	Rd									
4	L2	29	6.9	0.089	26.2	LOS C	1.2	8.8	0.75	0.67	49.2
5	T1	19	5.3	0.089	19.1	LOS B	1.2	8.8	0.75	0.67	53.0
6	R2	20	0.0	0.126	40.8	LOS D	0.7	4.7	0.95	0.70	40.8
Approa	ach	68	4.4	0.126	28.5	LOS C	1.2	8.8	0.81	0.68	47.3
North:	RoadName										
7	L2	20	0.0	0.126	40.8	LOS D	0.7	4.7	0.95	0.70	40.7
8	T1	20	0.0	0.048	23.8	LOS C	0.5	3.8	0.82	0.59	52.6
9	R2	20	0.0	0.108	39.3	LOS D	0.7	4.6	0.94	0.70	41.3
Approa	ach	60	0.0	0.126	34.6	LOS C	0.7	4.7	0.90	0.66	44.3
West:	Summerhill F	Rd									
10	L2	20	0.0	0.074	26.7	LOS C	1.0	7.0	0.76	0.65	50.6
11	T1	20	0.0	0.074	19.8	LOS B	1.0	7.0	0.76	0.65	53.0
12	R2	20	0.0	0.126	40.7	LOS D	0.7	4.7	0.95	0.70	40.7
Approa	ach	60	0.0	0.126	29.0	LOS C	1.0	7.0	0.82	0.66	47.5
All Veh	nicles	287	2.8	0.265	31.3	LOS C	1.6	11.7	0.86	0.68	45.7

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

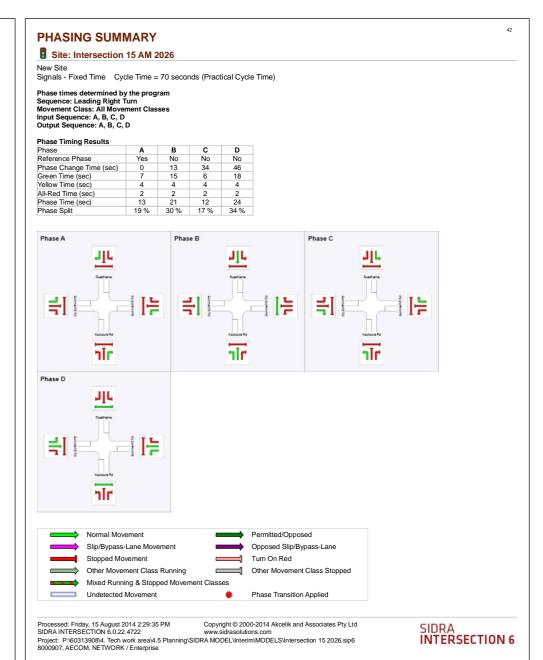
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

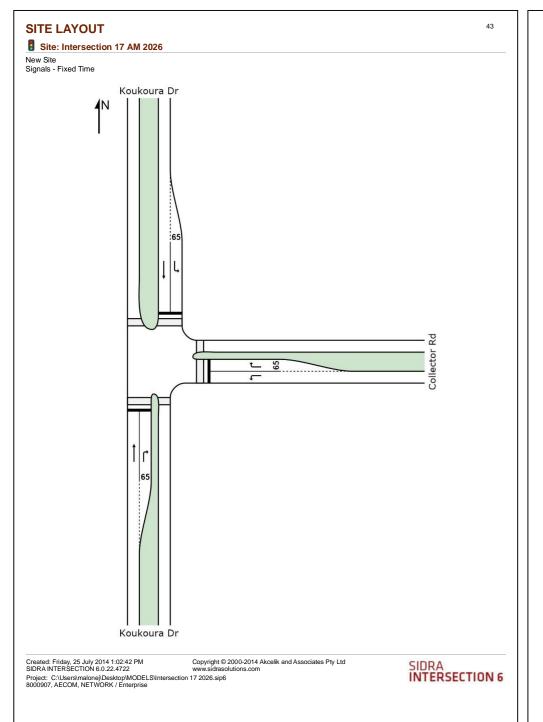
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

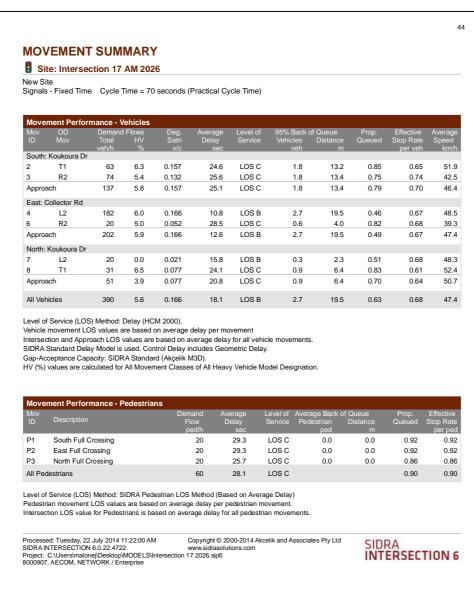
Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	26.6	LOS C	0.0	0.0	0.87	0.87
P2	East Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
P3	North Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P4	West Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
All Pe	destrians	110	28.8	LOS C			0.91	0.91

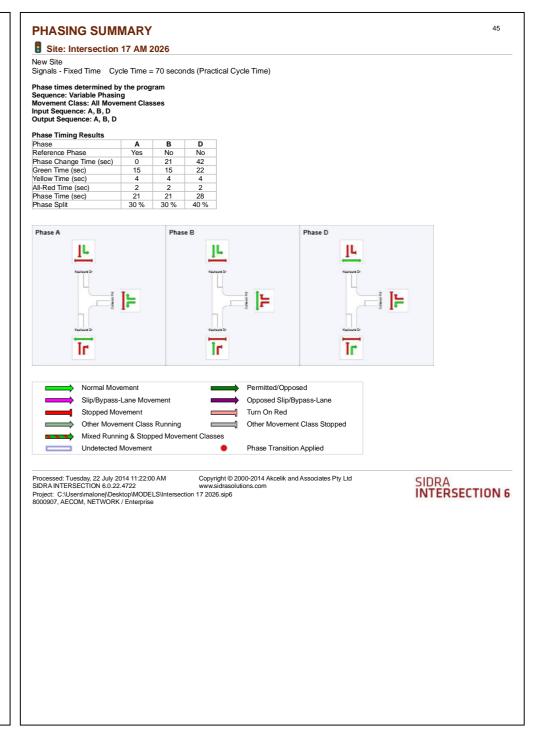
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

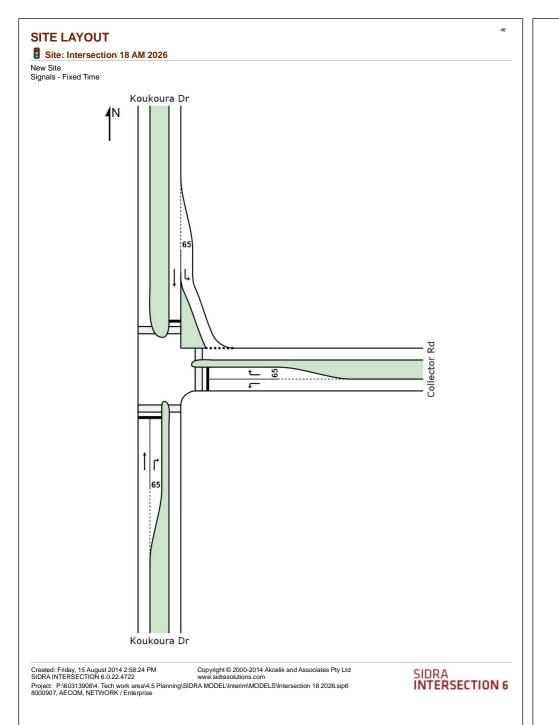
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Project: P:¹60313908¼. Tech work area¼-5 Planning\SIDRA MODEL\Interim\MODEL\S\Intersection 15 2026.sip6 8000907, AECOM, NETWORK / Enterprise











MOVEMENT SUMMARY Site: Intersection 18 AM 2026

Move	ment Perfo	rmance - V	ehicles								
Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
South:	Koukoura D)r									
2	T1	129	6.2	0.219	19.3	LOS B	3.3	24.2	0.77	0.62	56.2
3	R2	59	6.8	0.155	31.6	LOS C	1.7	12.5	0.85	0.74	39.7
Approa	ach	188	6.4	0.219	23.1	LOS C	3.3	24.2	0.80	0.66	49.7
East: 0	Collector Rd										
4	L2	124	5.6	0.135	14.1	LOS B	2.2	16.2	0.55	0.68	46.5
6	R2	20	5.0	0.052	28.5	LOS C	0.6	4.0	0.82	0.68	39.3
Approa	ach	144	5.6	0.135	16.1	LOS B	2.2	16.2	0.59	0.68	45.3
North:	Koukoura D	r									
7	L2	20	0.0	0.015	8.0	LOSA	0.1	0.5	0.19	0.64	54.5
8	T1	210	6.2	0.356	20.3	LOS C	5.6	41.5	0.82	0.68	55.4
Approa	ach	230	5.7	0.356	19.2	LOS B	5.6	41.5	0.76	0.67	55.3
All Veh	nides	562	5.9	0.356	19.7	LOS B	5.6	41.5	0.73	0.67	50.6

Level of Service (LOS) Method: Delay (HCM 2000). 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).

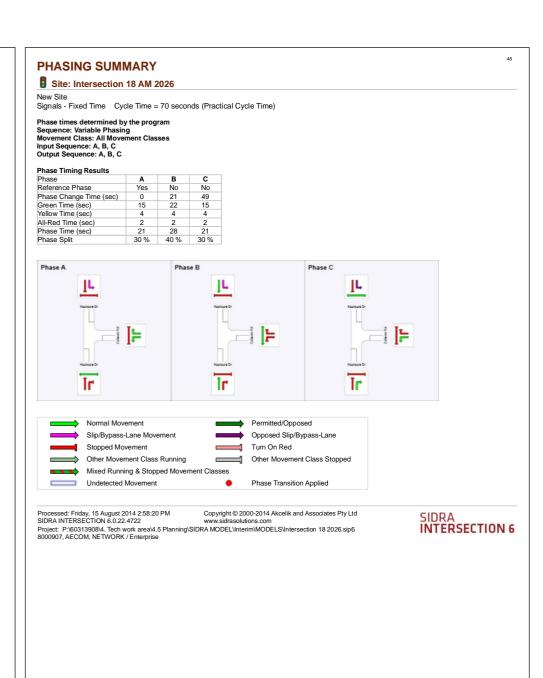
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

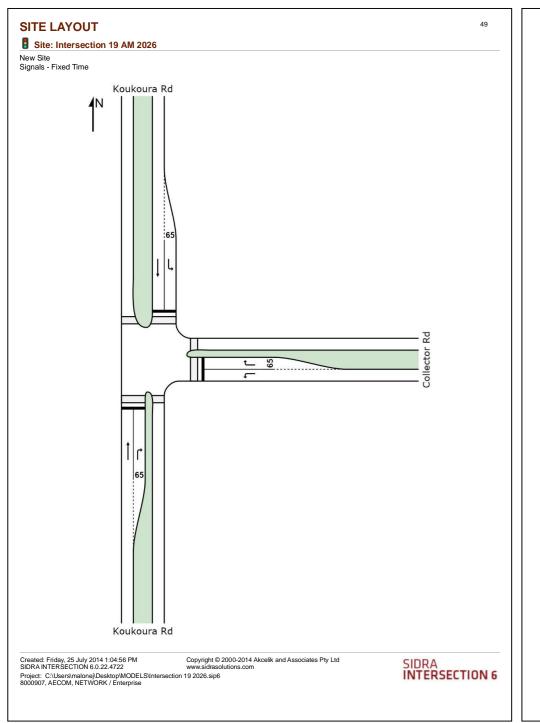
Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service		Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
P2	East Full Crossing	20	23.2	LOS C	0.0	0.0	0.81	0.81
P3	North Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
All Pe	destrians	60	27.3	LOS C			0.88	0.88

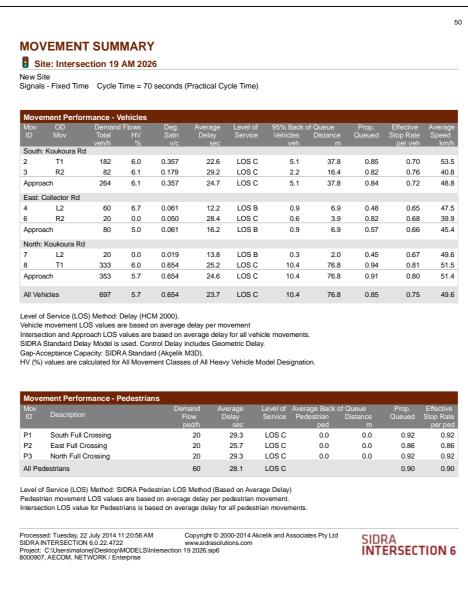
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement.

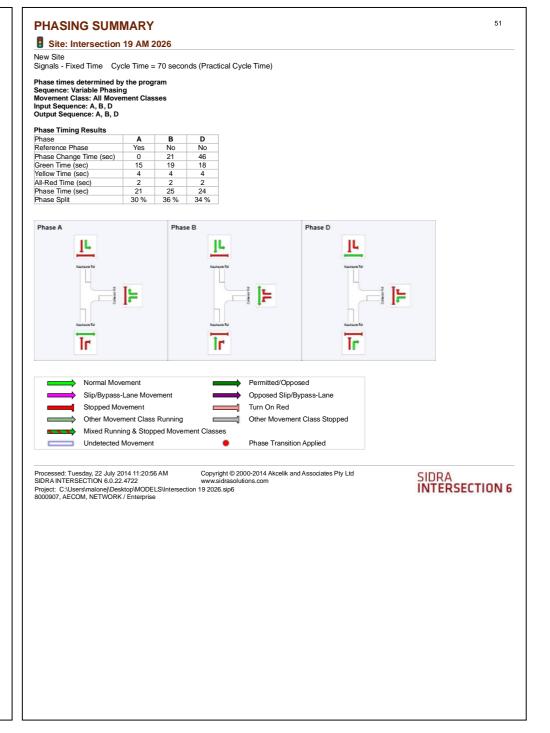
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

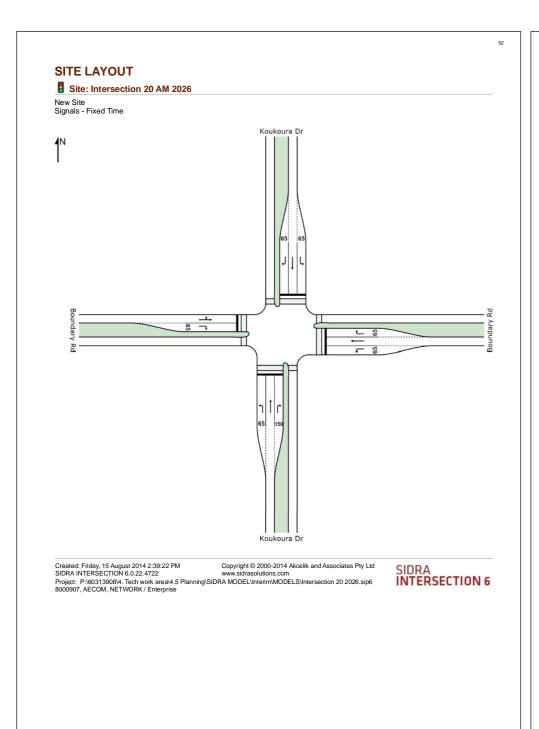
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Site: Intersection 20 AM 2026

Move	ment Perfo	rmance - \	ehicles/								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Koukoura D)r									
1	L2	54	5.6	0.185	50.5	LOS D	2.5	18.6	0.90	0.75	33.1
2	T1	210	6.2	0.685	48.6	LOS D	11.0	81.4	1.00	0.84	38.8
3	R2	247	6.1	0.848	63.8	LOS E	14.6	107.3	1.00	0.93	30.8
Approa	ach	511	6.1	0.848	56.1	LOS E	14.6	107.3	0.99	0.87	33.9
East: E	Boundary Rd	l									
4	L2	265	6.0	0.819	58.5	LOS E	15.1	111.1	1.00	0.92	31.3
5	T1	60	6.7	0.177	42.6	LOS D	2.8	20.4	0.88	0.70	33.4
6	R2	20	0.0	0.059	45.7	LOS D	0.9	6.2	0.86	0.70	35.7
Approa	ach	345	5.8	0.819	55.0	LOS E	15.1	111.1	0.97	0.87	31.9
North:	Koukoura D	r									
7	L2	20	0.0	0.039	38.3	LOS D	0.8	5.5	0.76	0.70	39.3
8	T1	413	5.1	0.821	45.4	LOS D	22.5	164.4	0.99	0.94	40.2
9	R2	37	5.4	0.076	38.7	LOS D	1.5	10.7	0.77	0.73	36.9
Approa	ach	470	4.9	0.821	44.5	LOS D	22.5	164.4	0.97	0.91	39.9
West:	Boundary Ro	d									
10	L2	47	6.4	0.355	49.5	LOS D	5.2	38.2	0.93	0.77	32.8
11	T1	59	6.8	0.355	46.7	LOS D	5.2	38.2	0.93	0.77	32.1
12	R2	114	6.1	0.392	49.9	LOS D	5.6	41.2	0.94	0.78	31.9
Approa	ach	220	6.4	0.392	49.0	LOS D	5.6	41.2	0.94	0.78	32.1
All Veh	nides	1546	5.7	0.848	51.3	LOS D	22.5	164.4	0.97	0.87	34.7

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

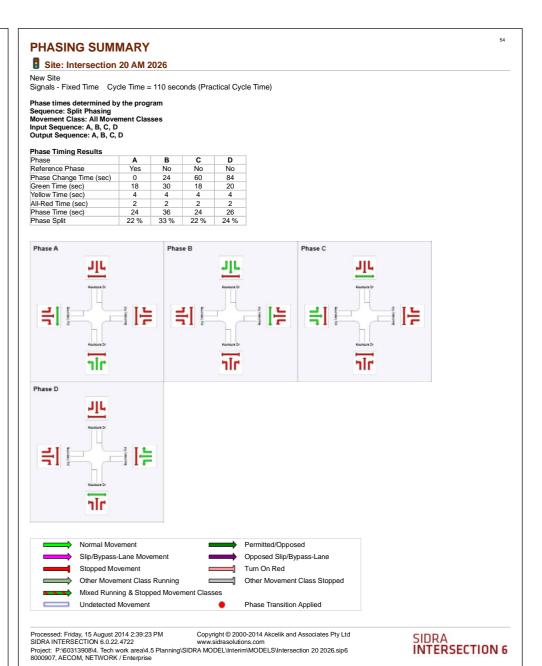
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

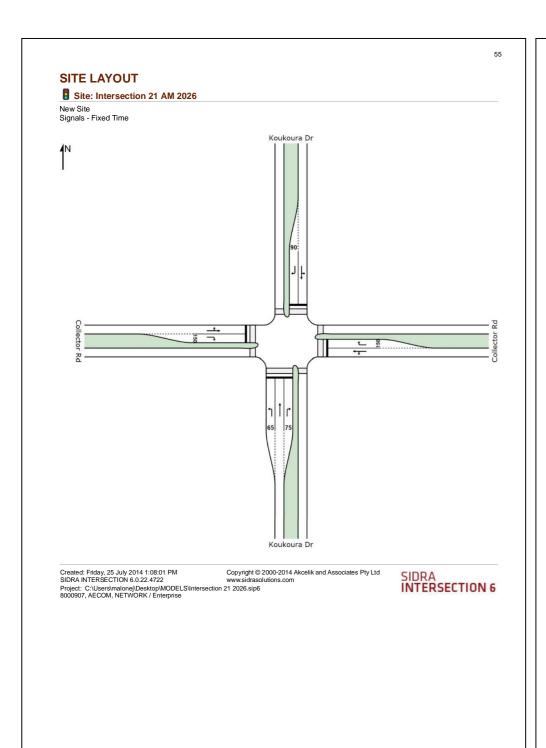
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	47.3	LOS E	0.1	0.1	0.93	0.93
P2	East Full Crossing	20	38.5	LOS D	0.1	0.1	0.84	0.84
P3	North Full Crossing	20	49.2	LOS E	0.1	0.1	0.95	0.95
P4	West Full Crossing	20	46.4	LOS E	0.1	0.1	0.92	0.92
All Per	destrians	80	45.4	LOSE			0.91	0.91

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: Intersection 21 AM 2026

Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
	Mov	Total		Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
	Koukoura D										
1	L2	121	5.8	0.111	16.5	LOS B	2.7	19.6	0.44	0.71	47.8
2	T1	438	5.9	0.467	19.1	LOS B	15.2	111.5	0.70	0.62	56.4
3	R2	77	6.5	0.596	64.0	LOS E	4.3	31.7	1.00	0.78	29.4
Approa	ach	636	6.0	0.596	24.0	LOS C	15.2	111.5	0.69	0.66	49.2
East: 0	Collector Rd										
4	L2	61	6.6	0.594	52.5	LOS D	8.7	63.9	0.98	0.80	32.0
5	T1	108	5.6	0.594	47.9	LOS D	8.7	63.9	0.98	0.80	29.8
6	R2	20	0.0	0.085	32.5	LOS C	0.7	4.9	0.91	0.69	38.2
Approa	ach	189	5.3	0.594	47.8	LOS D	8.7	63.9	0.97	0.79	31.2
North:	Koukoura D	r									
7	L2	20	5.0	0.745	28.8	LOS C	26.0	191.4	0.82	0.74	44.5
8	T1	626	6.1	0.745	21.8	LOS C	26.0	191.4	0.82	0.74	54.0
9	R2	95	6.3	0.735	66.2	LOS E	5.5	40.3	1.00	0.84	28.9
Approa	ach	741	6.1	0.745	27.7	LOS C	26.0	191.4	0.84	0.75	48.3
West: 0	Collector Rd										
10	L2	65	6.2	0.347	50.4	LOS D	4.8	35.1	0.94	0.76	32.2
11	T1	32	6.3	0.347	45.8	LOS D	4.8	35.1	0.94	0.76	30.0
12	R2	122	5.7	0.537	35.1	LOS D	4.7	34.4	0.98	0.78	36.7
Approa	ach	219	5.9	0.537	41.2	LOS D	4.8	35.1	0.96	0.77	34.2
All Veh	irles	1785	5.9	0.745	30.2	LOSC	26.0	191.4	0.81	0.72	43.8

Level of Service (LOS) Method: Delay (HCM 2000).

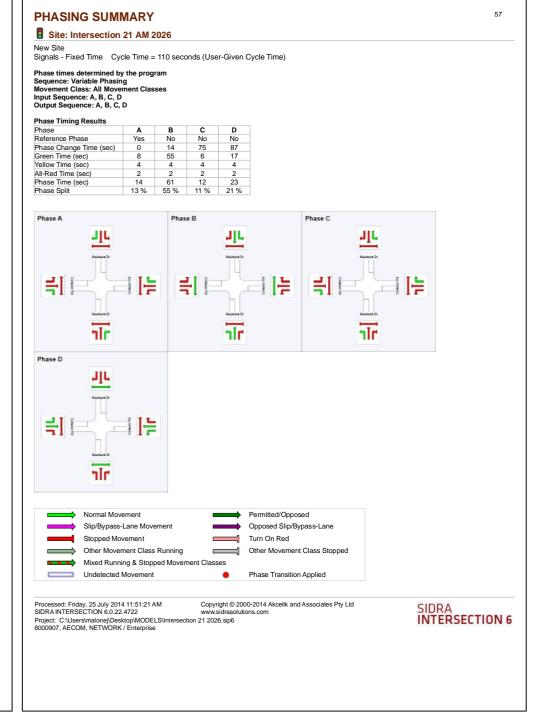
Vehicle movement LOS values are based on average delay per movement

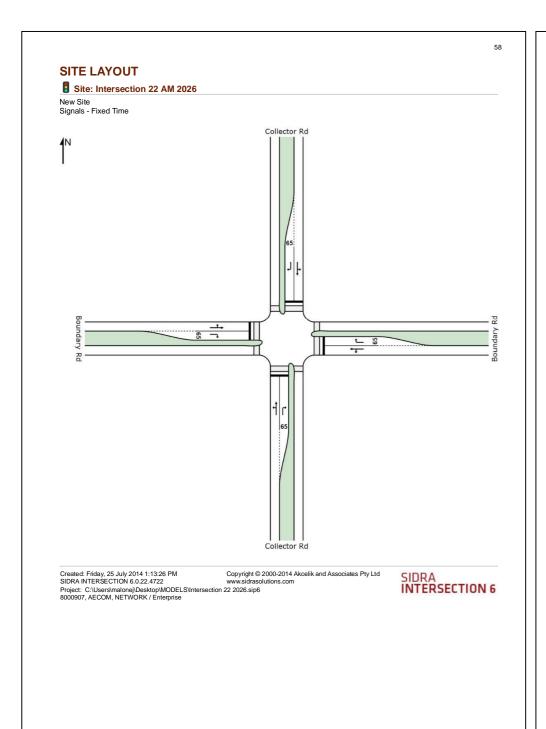
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

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

Move	ment Performance - Pedestrians							
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate per ped
P1	South Full Crossing	20	50.2	LOS E	0.1	0.1	0.96	0.96
P2	East Full Crossing	20	18.6	LOS B	0.0	0.0	0.58	0.58
P3	North Full Crossing	20	47.3	LOS E	0.1	0.1	0.93	0.93
P4	West Full Crossing	20	18.6	LOS B	0.0	0.0	0.58	0.58
All Pe	destrians	80	33.7	LOS D			0.76	0.76

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.



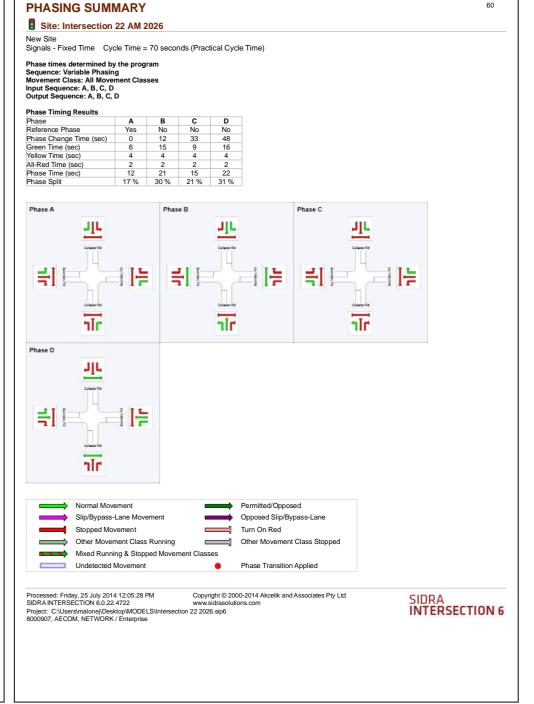


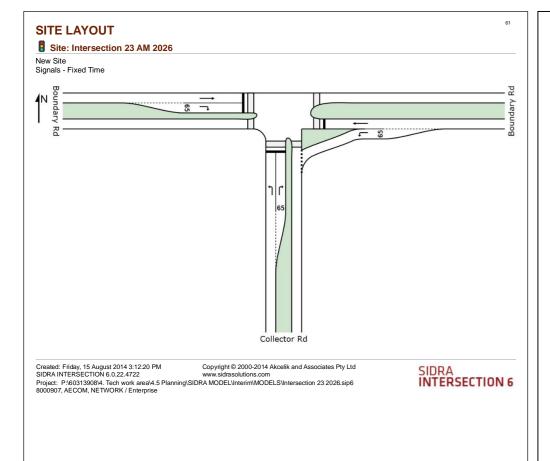
MOVEMENT SUMMARY Site: Intersection 22 AM 2026 Signals - Fixed Time Cycle Time = 70 seconds (Practical Cycle Time) L2 20 5.0 0.163 27.3 LOS C 1.9 14.0 0.84 0.71 35.4 T1 48 6.3 0.163 25.3 LOS C 1.9 14.0 0.84 0.71 34.1 5.0 4.9 R2 0.130 37.5 LOS D 0.95 0.69 31.5 5.7 0.71 0.163 28.5 LOS C 1.9 14.0 0.86 33.7 L2 20 5.0 0.593 31.7 LOS C 8.0 58.8 0.94 0.79 35.8 T1 236 5.9 0.593 26.1 LOS C 8.0 58.8 0.94 0.79 41.8 5.8 155 0.676 40.0 LOS D 5.5 40.5 1.00 0.85 R2 33.8 5.8 0.81 411 0.676 31.6 LOS C 8.0 58.8 0.96 38.1 Approach North: Collector Rd L2 6.0 28.2 LOS C T1 77 6.5 0.468 24.8 LOS C 6.6 48.8 0.88 0.78 33.5 R2 6.3 0.315 39.6 LOSD 1.7 12.3 0.98 0.74 33.5 Approach 274 6.2 0.468 29.2 LOS C 6.6 48.8 0.90 0.78 35.8 West: Boundary Rd 5.9 0.746 10 34 LOS D 82.0 0.98 0.91 37.3 L2 35.1 11.2 289 5.9 29.5 LOS C 11.2 12 6.5 0.202 36.5 LOS D 1.5 10.9 0.93 0.73 32.5 Approach 369 6.0 0.746 30.9 LOS C 11.2 82.0 0.98 0.88 38.7 1142 6.0 0.746 30.6 LOS C 11.2 82.0 0.94 0.82 37.3 Level of Service (LOS) Method: Delay (HCM 2000). 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 (Akcelik M3D). HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per pec
P1	South Full Crossing	50	28.4	LOS C	0.1	0.1	0.90	0.90
P2	East Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P3	North Full Crossing	50	28.4	LOS C	0.1	0.1	0.90	0.90
P4	West Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
All Pe	destrians	200	28.9	LOS C			0.91	0.9

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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Site: Intersection 23 AM 2026

Mov	OD	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Averag
	Mov	Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate per veh	Speed km/l
South:	Collector Re										
1	L2	39	5.1	0.039	12.1	LOS B	0.6	4.3	0.47	0.64	45.
3	R2	37	5.4	0.097	28.9	LOS C	1.0	7.6	0.83	0.71	37.
Approa	ch	76	5.3	0.097	20.2	LOS C	1.0	7.6	0.65	0.67	40.
East: B	oundary Rd	i									
4	L2	150	6.0	0.147	13.1	LOS B	2.4	17.5	0.49	0.70	45.
5	T1	371	5.9	0.728	27.2	LOS C	12.3	90.7	0.97	0.88	41.
Approa	ch	521	6.0	0.728	23.1	LOS C	12.3	90.7	0.83	0.83	42
West: E	Boundary Ro	d									
11	T1	413	6.1	0.811	30.9	LOS C	15.0	110.6	0.99	0.98	39
12	R2	46	6.5	0.101	27.3	LOS C	1.2	9.0	0.79	0.72	38
Approa	ch	459	6.1	0.811	30.5	LOS C	15.0	110.6	0.97	0.95	39
All Veh	icles	1056	6.0	0.811	26.1	LOS C	15.0	110.6	0.88	0.87	41

Level of Service (LOS) Method: Delay (HCM 2000). 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.

Move	ment Performance - Pedestrians							
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate per per
P1	South Full Crossing	50	25.8	LOS C	0.1	0.1	0.86	0.86
P2	East Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P4	West Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
All Pe	destrians	150	28.1	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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SIDRA INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 23 AM 2026

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Mover	nent Perfo	rmance - V	ehicles								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Collector Ro										
1	L2	39	5.1	0.042	13.6	LOS B	0.7	4.8	0.52	0.65	44.2
3	R2	37	5.4	0.097	28.9	LOS C	1.0	7.6	0.83	0.71	37.2
Approa	ch	76	5.3	0.097	21.0	LOSC	1.0	7.6	0.67	0.68	40.5
East: B	oundary Rd	l									
4	L2	150	6.0	0.113	6.4	LOS A	0.6	4.2	0.22	0.61	49.8
5	T1	371	5.9	0.629	22.6	LOS C	11.1	81.4	0.91	0.78	43.8
Approa	ch	521	6.0	0.629	17.9	LOS B	11.1	81.4	0.71	0.73	45.4
West: E	Boundary Ro	d									
11	T1	413	6.1	0.700	24.0	LOS C	13.0	95.6	0.94	0.83	43.0
12	R2	46	6.5	0.121	30.0	LOSC	1.3	9.6	0.84	0.73	37.2
Approa	ch	459	6.1	0.700	24.6	LOSC	13.0	95.6	0.93	0.82	42.4
All Veh	icles	1056	6.0	0.700	21.0	LOSC	13.0	95.6	0.80	0.77	43.6

Level of Service (LOS) Method: Delay (HCM 2000). 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).

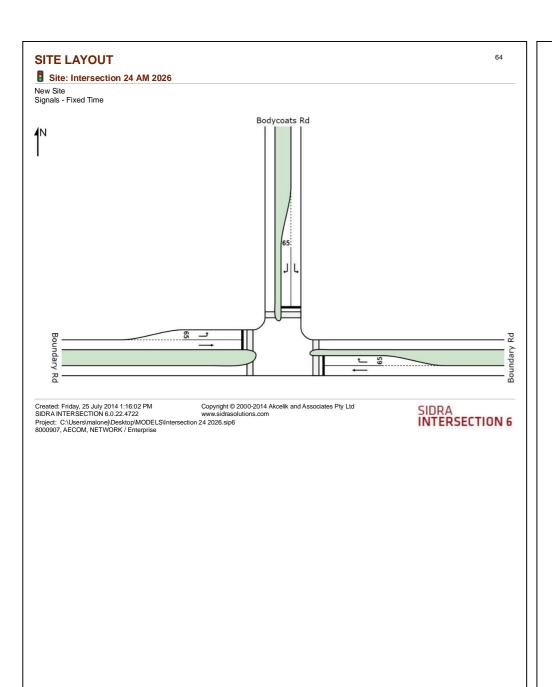
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

	ment Performance - Pedestrians	Damard		l accel of			D	Γ#ti
Mov ID	Description	Demand Flow	Average Delav	Service	Average Back Pedestrian	or Queue Distance	Prop. Queued	Effective Stop Rate
		ped/h	sec	Service	ped	m	Queueu	per ped
P1	South Full Crossing	50	23.3	LOS C	0.1	0.1	0.82	0.82
P2	East Full Crossing	50	29.3	LOSC	0.1	0.1	0.92	0.92
P4	West Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
All Pe	destrians	150	27.3	LOSC			0.88	0.88

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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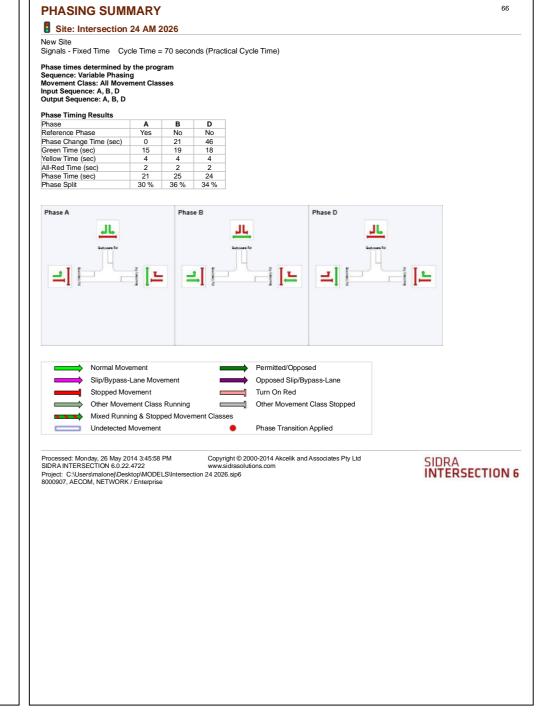
MOVEMENT SUMMARY Site: Intersection 24 AM 2026 Signals - Fixed Time Cycle Time = 70 seconds (Practical Cycle Time) 349 6.0 0.685 T1 25.9 LOS C 11.2 82.4 0.95 0.84 42.1 27 7.4 0.060 R2 26.9 LOS C 0.7 5.2 0.78 0.70 38.4 376 6.1 0.685 Approach 26.0 LOS C 11.2 82.4 0.94 0.83 41.8 12.2 LOS B 7.9 172 5.8 0.450 31.3 LOS C 5.3 38.9 0.92 0.79 36.3 Approach 241 5.8 0.450 25.8 LOS C 5.3 38.9 0.79 0.75 38.4 West: Boundary Rd 5.6 0.070 12.7 LOS B 1.1 7.9 0.47 0.67 45.4 10 L2 71 378 6.1 0.742 27.6 LOS C 12.7 93.8 0.97 0.89 41.2 6.0 0.86 449 0.742 25.3 LOS C 12.7 93.8 0.89 Approach 1066 6.0 0.742 25.7 LOS C Level of Service (LOS) Method: Delay (HCM 2000). 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).

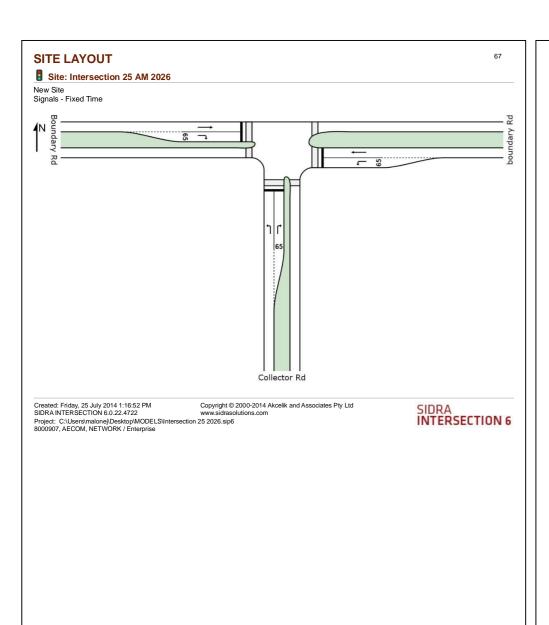
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

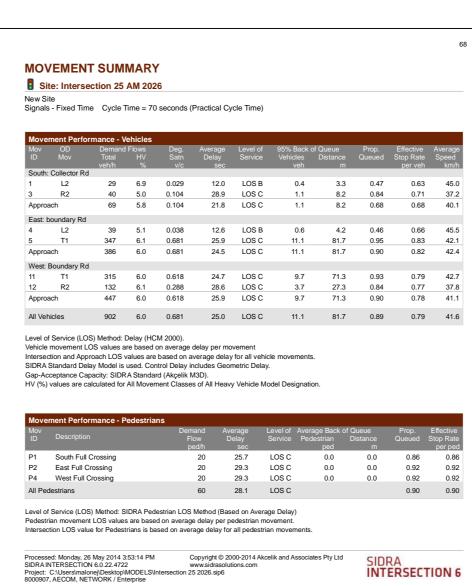
Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow ped/h	Delay sec	Service	Pedestrian ped	Distance m	Queued	Stop Rate per ped
P2	East Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
P3	North Full Crossing	20	25.7	LOS C	0.0	0.0	0.86	0.86
P4	West Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
All Ped	destrians	60	28.1	LOS C			0.90	0.90

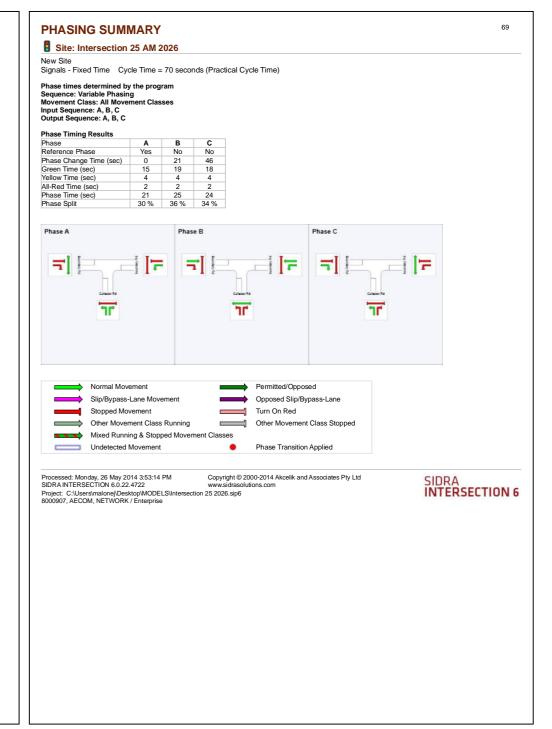
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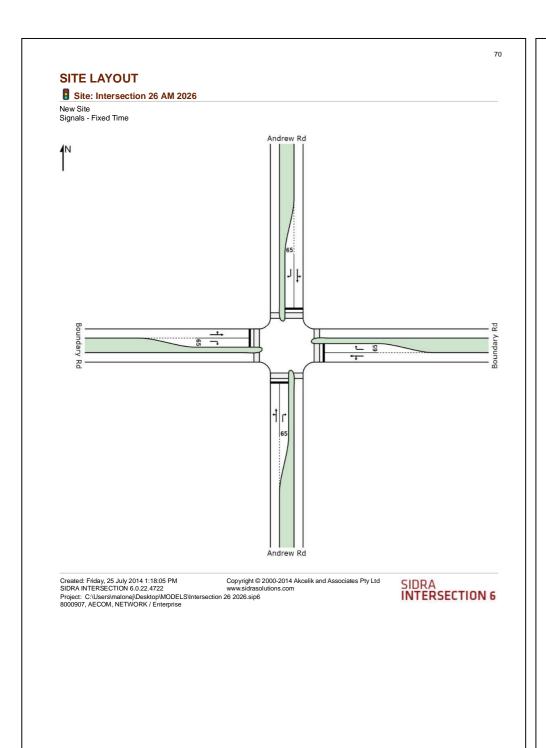
Processed: Monday, 26 May 2014 3:45:58 PM Copyright © 2000-2014 A SIDRA INTERSECTION 6.0 22.4722 www.sidrasolutions.com Project: C:\Users\malone\j\Desktop\MODELS\Intersection 24 2026.sip6 8000907, AECOM, NETWORK / Enterprise











Site: Intersection 26 AM 2026

Mov	OD	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
	Mov	Total		Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
0 11		veh/h	%	v/c	sec		veh	m		per veh	km/r
	Andrew Rd										
1	L2	28	7.1	0.110	26.4	LOS C	1.3	9.8	0.80	0.67	39.1
2	T1	22	4.5	0.110	21.8	LOS C	1.3	9.8	0.80	0.67	37.5
3	R2	21	4.8	0.136	38.6	LOS D	0.7	5.2	0.95	0.70	33.8
Approa	ich	71	5.6	0.136	28.6	LOS C	1.3	9.8	0.84	0.68	36.9
East: B	Boundary Ro	i									
4	L2	61	6.6	0.712	31.7	LOS C	12.0	88.1	0.95	0.86	38.6
5	T1	306	5.9	0.712	26.0	LOS C	12.0	88.1	0.95	0.86	41.6
6	R2	39	5.1	0.254	40.2	LOS D	1.3	9.8	0.97	0.73	33.7
Approa	ich	406	5.9	0.712	28.2	LOS C	12.0	88.1	0.96	0.85	40.2
North:	Andrew Rd										
7	L2	50	6.0	0.473	30.6	LOS C	6.0	44.1	0.91	0.76	37.9
8	T1	146	6.2	0.473	26.0	LOS C	6.0	44.1	0.91	0.76	36.4
9	R2	53	5.7	0.346	39.7	LOS D	1.8	13.5	0.98	0.74	33.5
Approa	ich	249	6.0	0.473	29.8	LOS C	6.0	44.1	0.93	0.76	36.1
West: E	Boundary R	d									
10	L2	21	4.8	0.670	30.5	LOS C	10.8	79.4	0.94	0.82	39.3
11	T1	322	5.9	0.670	24.9	LOS C	10.8	79.4	0.94	0.82	42.4
12	R2	21	4.8	0.136	39.5	LOS D	0.7	5.2	0.95	0.70	33.9
Approa	ich	364	5.8	0.670	26.1	LOS C	10.8	79.4	0.94	0.81	41.6
All Veh	icles	1090	5.9	0.712	27.9	LOS C	12.0	88.1	0.94	0.81	39.4

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

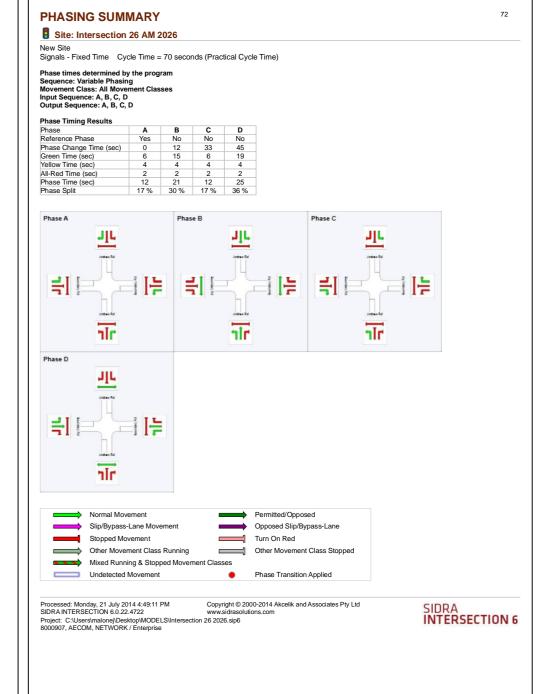
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

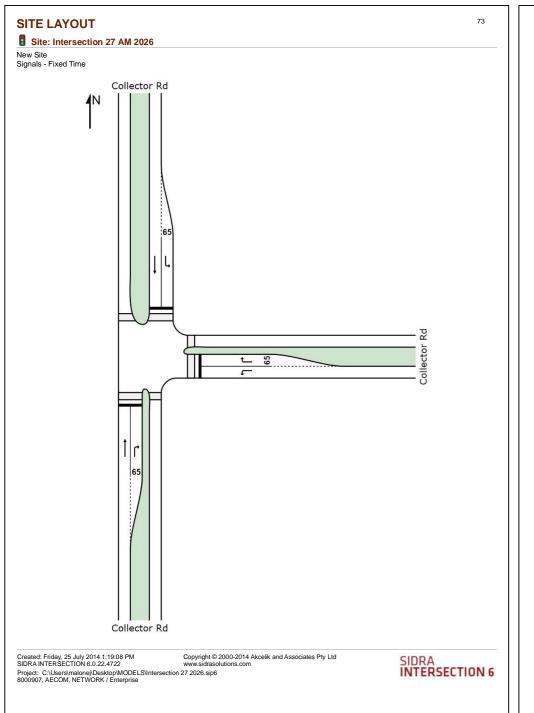
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

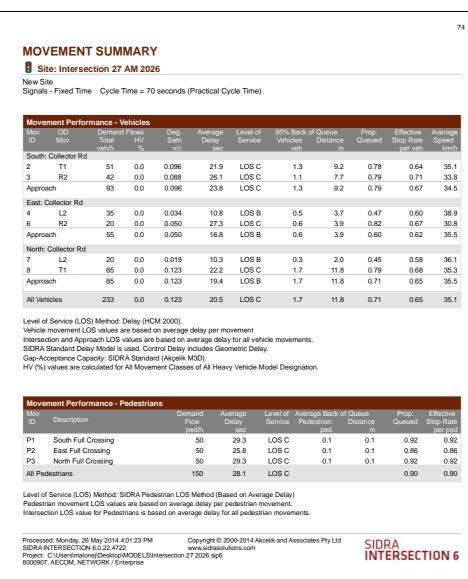
Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	50	25.8	LOS C	0.1	0.1	0.86	0.86
P2	East Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P3	North Full Crossing	50	25.8	LOS C	0.1	0.1	0.86	0.86
P4	West Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
All Pe	destrians	200	27.5	LOS C			0.89	0.89

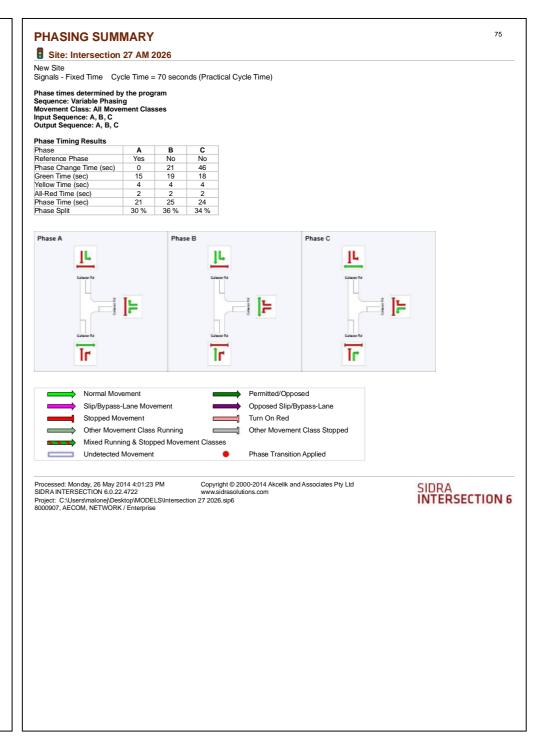
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

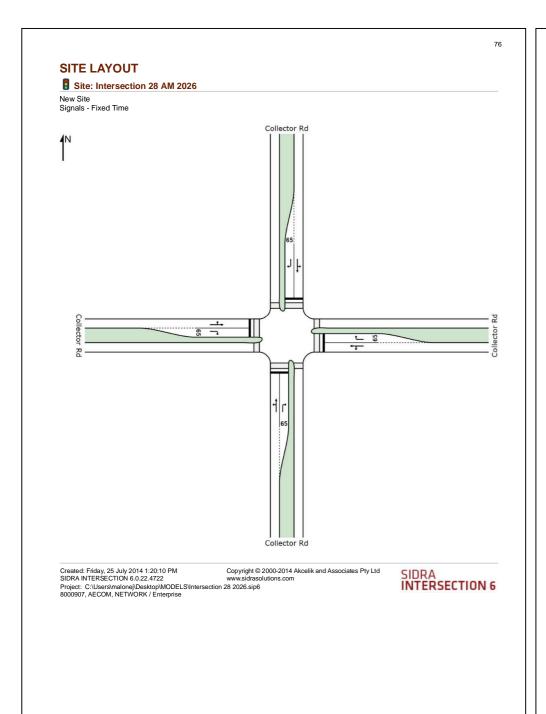
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Site: Intersection 28 AM 2026

Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
	Mov	Total		Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
	Collector Ro										
1	L2	45	0.0	0.173	24.3	LOS C	2.5	17.3	0.77	0.67	35.3
2	T1	52	0.0	0.173	19.7	LOS B	2.5	17.3	0.77	0.67	38.5
3	R2	30	0.0	0.188	38.8	LOS D	1.0	7.1	0.96	0.71	30.2
Approach		127	0.0	0.188	25.8	LOS C	2.5	17.3	0.82	0.68	35.1
East: C	Collector Rd										
4	L2	95	0.0	0.224	23.5	LOS C	3.2	22.2	0.79	0.71	34.5
5	T1	27	0.0	0.224	20.1	LOS C	3.2	22.2	0.79	0.71	32.0
6	R2	20	0.0	0.126	37.3	LOS D	0.7	4.7	0.95	0.69	30.3
Approach		142	0.0	0.224	24.8	LOS C	3.2	22.2	0.81	0.71	33.4
North:	Collector Ro	i									
7	L2	20	0.0	0.289	25.9	LOS C	4.2	29.2	0.82	0.68	35.2
8	T1	134	0.0	0.289	21.3	LOS C	4.2	29.2	0.82	0.68	38.4
9	R2	20	0.0	0.126	38.4	LOS D	0.7	4.7	0.95	0.69	30.3
Approa	ich	174	0.0	0.289	23.8	LOS C	4.2	29.2	0.84	0.68	36.9
West: 0	Collector Rd										
10	L2	20	0.0	0.103	25.9	LOS C	1.2	8.7	0.81	0.65	34.1
11	T1	26	0.0	0.103	22.5	LOS C	1.2	8.7	0.81	0.65	31.7
12	R2	29	0.0	0.182	37.7	LOS D	1.0	6.9	0.96	0.71	30.2
Approa	ich	75	0.0	0.182	29.3	LOS C	1.2	8.7	0.87	0.67	31.7
All Veh	icles	518	0.0	0.289	25.4	LOS C	4.2	29.2	0.83	0.69	34.6

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

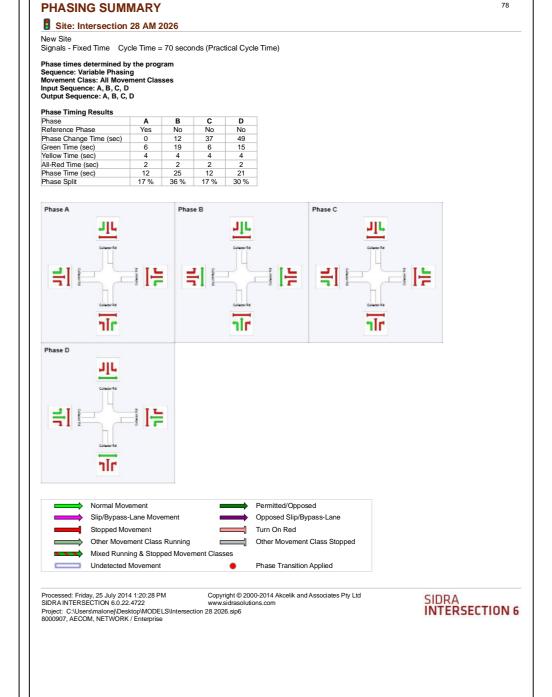
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

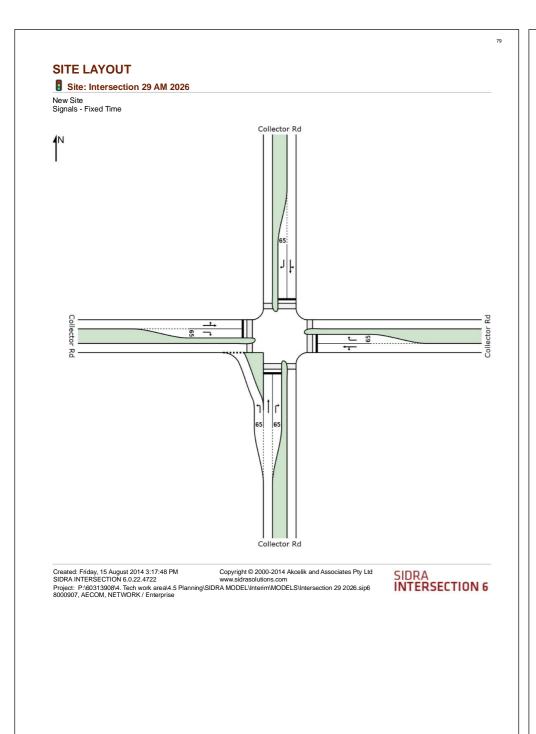
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian Distance		Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P2	East Full Crossing	50	25.8	LOS C	0.1	0.1	0.86	0.86
P3	North Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P4	West Full Crossing	50	25.8	LOS C	0.1	0.1	0.86	0.86
All Pe	destrians	200	27.5	LOS C			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.

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Site: Intersection 29 AM 2026

Move	ment Perfo	rmance - V	ehicles/								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Collector Ro	i									
1	L2	20	0.0	0.014	3.9	LOSA	0.1	0.6	0.21	0.47	42.3
2	T1	32	0.0	0.060	21.7	LOS C	0.8	5.7	0.77	0.64	35.5
3	R2	20	0.0	0.126	37.3	LOS D	0.7	4.7	0.95	0.69	30.3
Approach		72	0.0	0.126	21.1	LOS C	0.8	5.7	0.67	0.61	35.4
East: 0	Collector Rd										
4	L2	24	0.0	0.167	28.4	LOS C	2.0	14.3	0.84	0.68	34.1
5	T1	49	0.0	0.167	23.8	LOS C	2.0	14.3	0.84	0.68	37.2
6	R2	20	0.0	0.126	38.4	LOS D	0.7	4.7	0.95	0.69	32.4
Approa	ach	93	0.0	0.167	28.1	LOS C	2.0	14.3	0.86	0.68	35.3
North:	Collector Rd	l									
7	L2	63	0.0	0.189	23.6	LOS C	2.8	19.4	0.77	0.71	38.1
8	T1	47	0.0	0.189	20.3	LOS C	2.8	19.4	0.77	0.71	35.0
9	R2	20	0.0	0.126	38.4	LOS D	0.7	4.7	0.95	0.69	32.4
Approa	ach	130	0.0	0.189	24.7	LOS C	2.8	19.4	0.79	0.70	36.0
West: (Collector Rd										
10	L2	20	0.0	0.105	27.1	LOS C	1.3	8.9	0.81	0.65	37.2
11	T1	27	0.0	0.105	22.5	LOS C	1.3	8.9	0.81	0.65	37.5
12	R2	20	0.0	0.126	38.4	LOS D	0.7	4.7	0.95	0.69	30.5
Approa	ach	67	0.0	0.126	28.6	LOS C	1.3	8.9	0.85	0.67	35.0
All Veh	nicles	362	0.0	0.189	25.6	LOS C	2.8	19.4	0.80	0.67	35.5

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

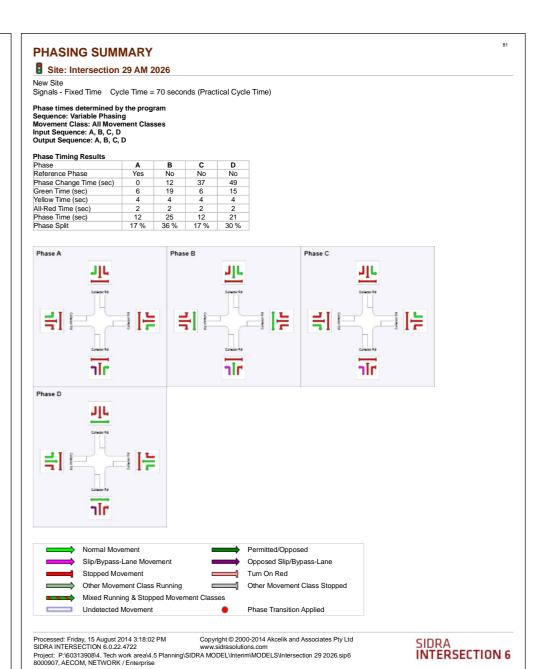
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

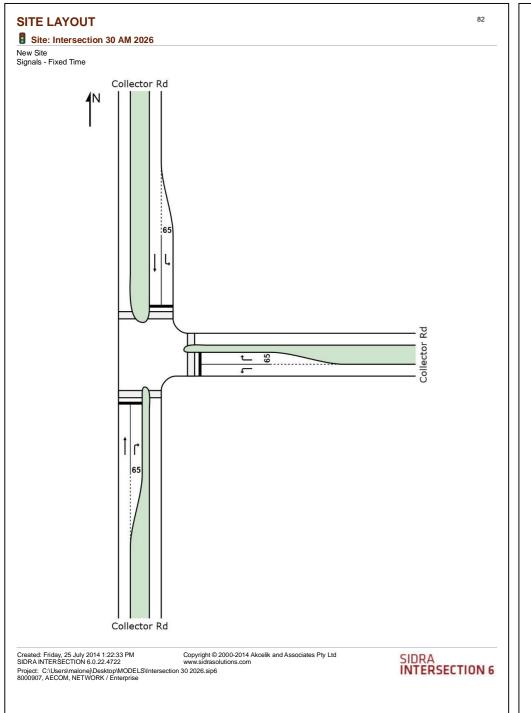
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

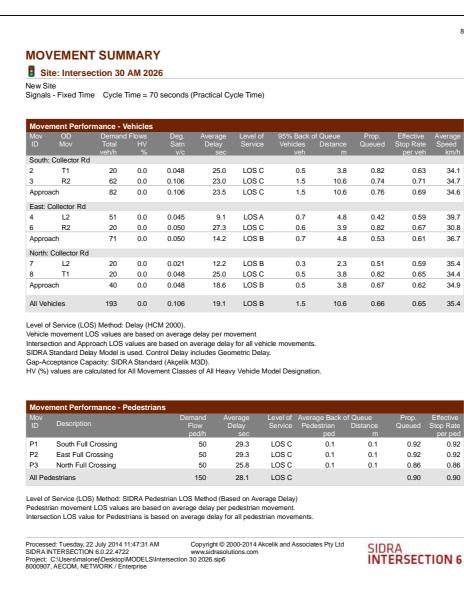
Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P2	East Full Crossing	50	25.8	LOS C	0.1	0.1	0.86	0.86
P3	North Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P4	West Full Crossing	50	25.8	LOS C	0.1	0.1	0.86	0.86
All Pedestrians		200	27.5	LOS C			0.89	0.89

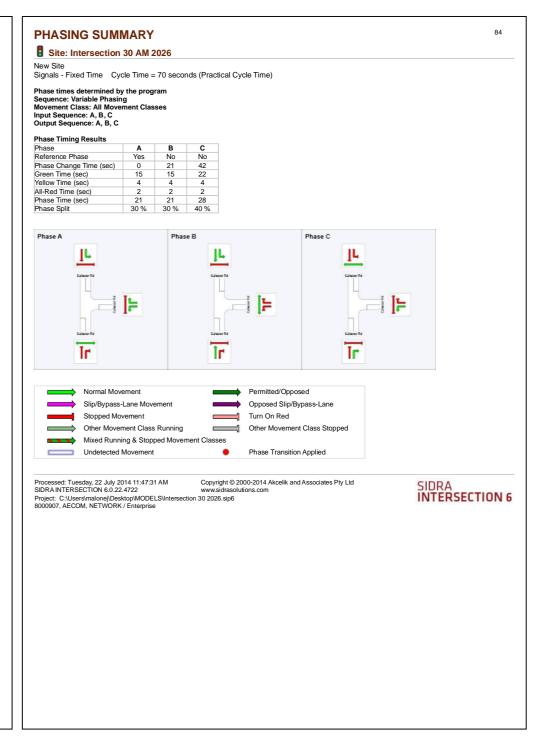
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

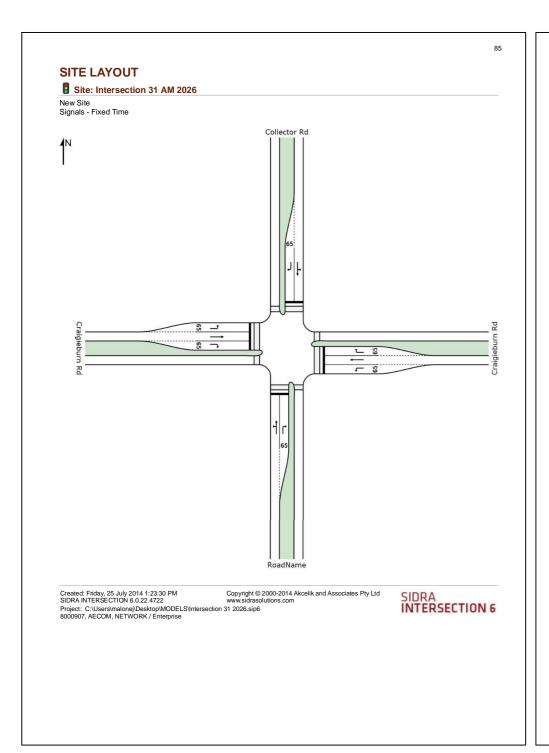
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Project: P:¹60313908¼. Tech work area¼-5 Planning\SIDRA MODEL\Interim\MODEL\S\Intersection 29 2026.sip6 8000907, AECOM, NETWORK / Enterprise











Site: Intersection 31 AM 2026

Move	ment Perfo	rmance - \	ehicles/								
Mov ID	OD Mov	Demand Total		Deg. Satn	Average Delay	Level of Service	95% Back Vehicles	Distance	Prop. Queued	Effective Stop Rate	Average Speed
South:	RoadName	veh/h	%	v/c	sec		veh	m		per veh	km/h
1	L2	29	6.9	0.075	22.1	LOS C	1.0	7.4	0.72	0.65	42.7
2	T1	13	7.7	0.075	17.5	LOS B	1.0	7.4	0.72	0.65	39.0
3	R2	20	0.0	0.075	38.4	LOS D	0.7	4.7	0.72	0.69	36.1
Approach		62	4.8	0.126	26.4	LOS C	1.0	7.4	0.79	0.66	39.6
East: 0	Craigieburn F	Rd									
4	L2	20	0.0	0.027	20.5	LOS C	0.4	2.9	0.63	0.69	48.5
5	T1	250	6.0	0.583	26.7	LOS C	7.9	57.8	0.94	0.78	50.4
6	R2	47	6.4	0.309	41.8	LOS D	1.6	12.0	0.97	0.74	35.8
Approach		317	5.7	0.583	28.6	LOS C	7.9	57.8	0.93	0.77	47.4
North:	Collector Ro	i									
7	L2	223	5.8	0.526	25.6	LOS C	8.7	63.7	0.86	0.79	41.1
8	T1	83	6.0	0.526	21.0	LOS C	8.7	63.7	0.86	0.79	37.5
9	R2	33	6.1	0.216	39.1	LOS D	1.1	8.3	0.96	0.72	35.3
Approa	ach	339	5.9	0.526	25.8	LOS C	8.7	63.7	0.87	0.78	39.6
West: 0	Craigieburn	Rd									
10	L2	50	6.0	0.070	21.0	LOS C	1.1	7.8	0.64	0.72	45.2
11	T1	326	6.1	0.761	30.6	LOS C	11.4	84.2	0.99	0.90	47.9
12	R2	53	5.7	0.346	42.0	LOS D	1.8	13.5	0.98	0.74	37.5
Approa	ach	429	6.1	0.761	30.9	LOS C	11.4	84.2	0.95	0.86	46.0
All Veh	nicles	1147	5.8	0.761	28.5	LOS C	11.4	84.2	0.91	0.80	43.9

Level of Service (LOS) Method: Delay (HCM 2000).

Vehicle movement LOS values are based on average delay per movement

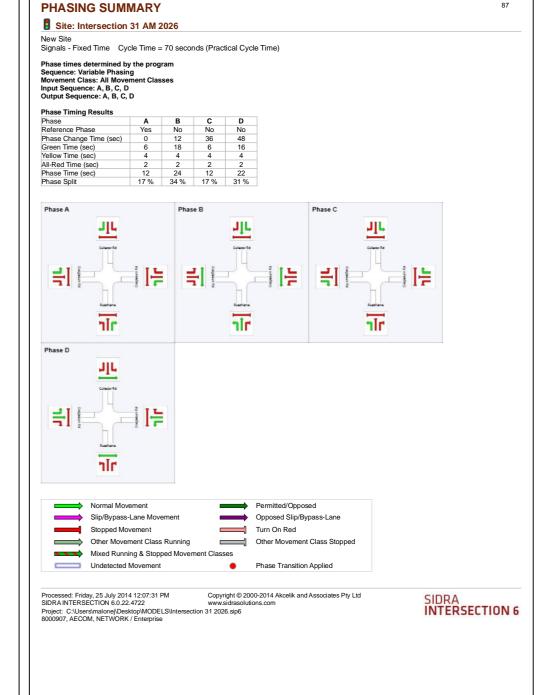
Intersection and Approach LOS values are based on average delay for all vehicle movements. SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay. Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

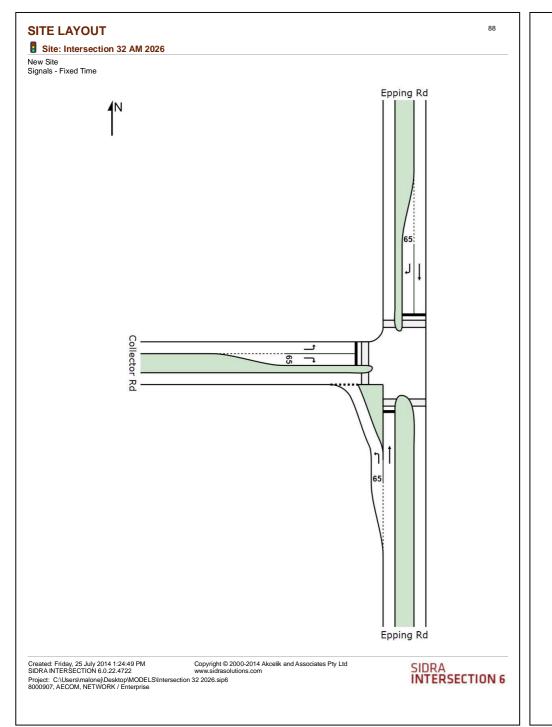
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

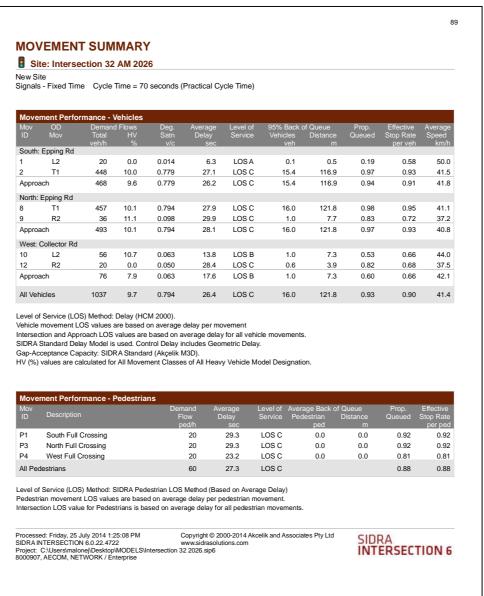
Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	28.4	LOS C	0.0	0.0	0.90	0.90
P2	East Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
P3	North Full Crossing	20	28.4	LOS C	0.0	0.0	0.90	0.90
P4	West Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
All Pedestrians		80	28.8	LOS C			0.91	0.91

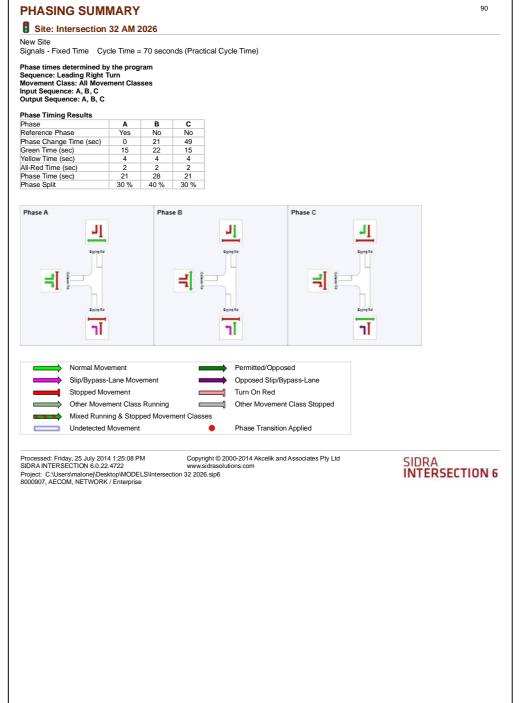
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

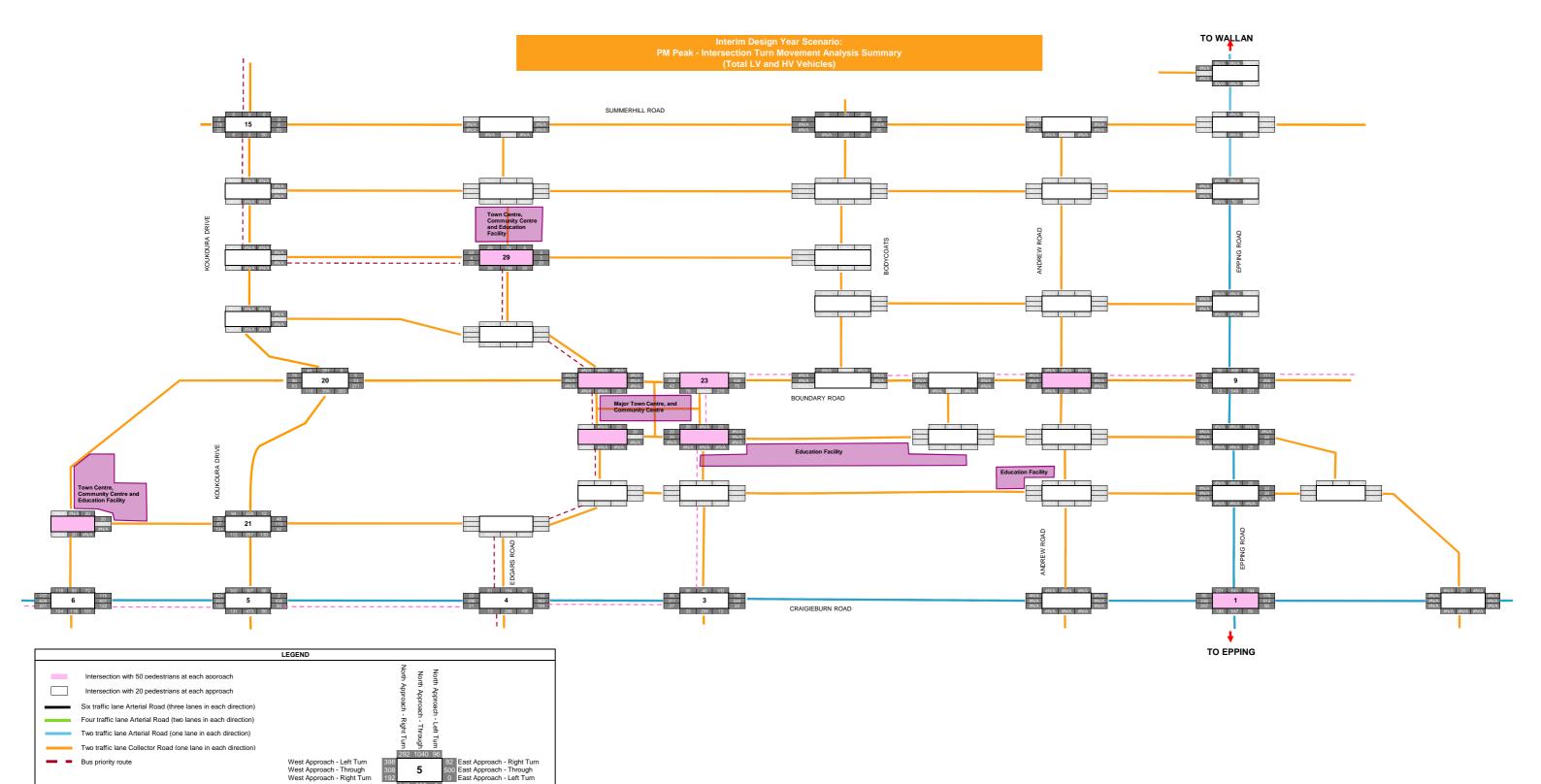
Processed: Friday, 25 July 2014 12:07:31 PM Copyright © 2000-2014 Akcelik and Associates Pty Ltd SIDRAINTERSECTION 6.0.22.4722 www.sidrasolutions.com
Project: C3\(\)UsersImalone(\)DestRopMODELSIIntersection 31 2026.sip6
8000907, AECOM, NETWORK / Enterprise

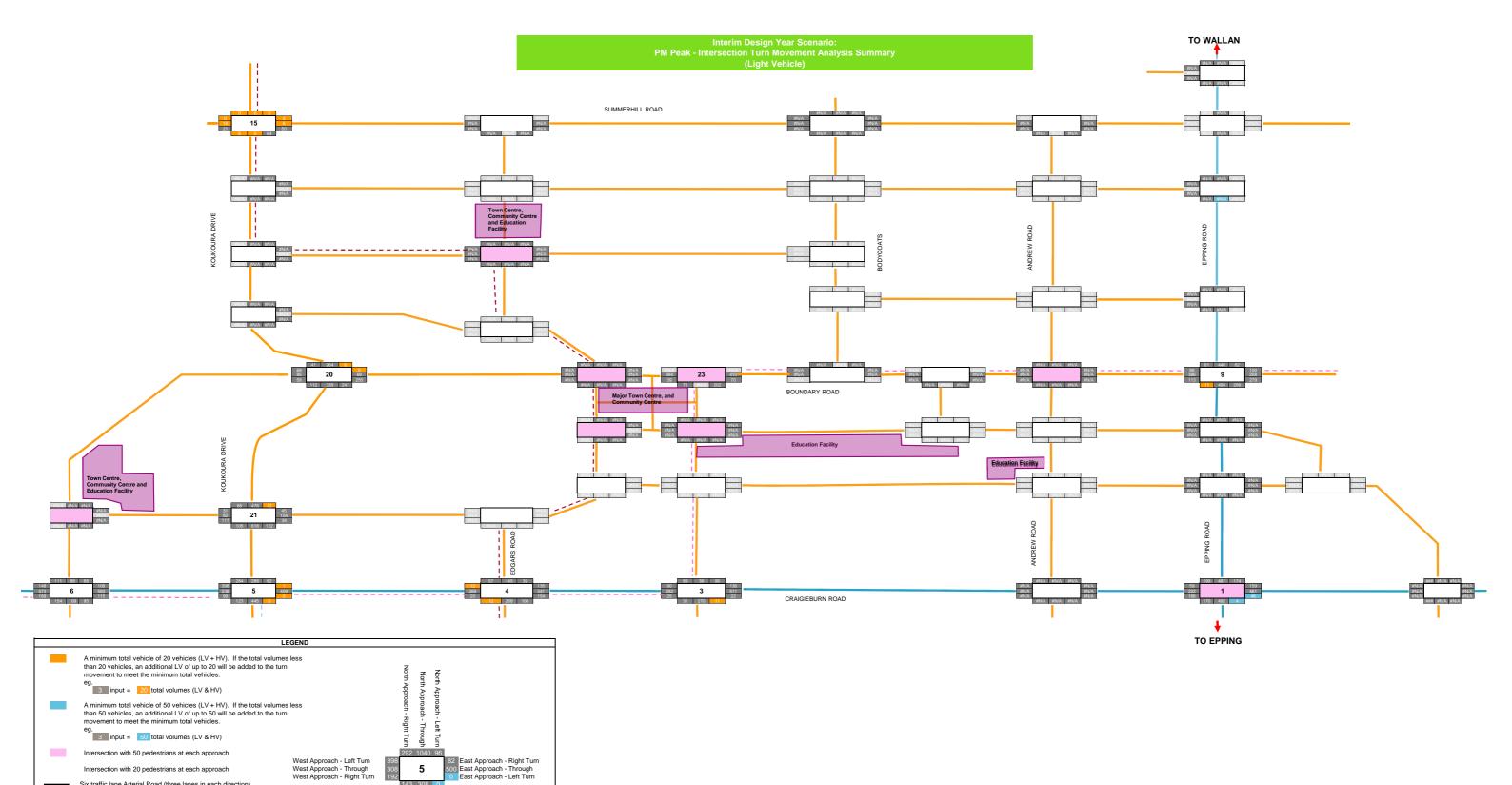








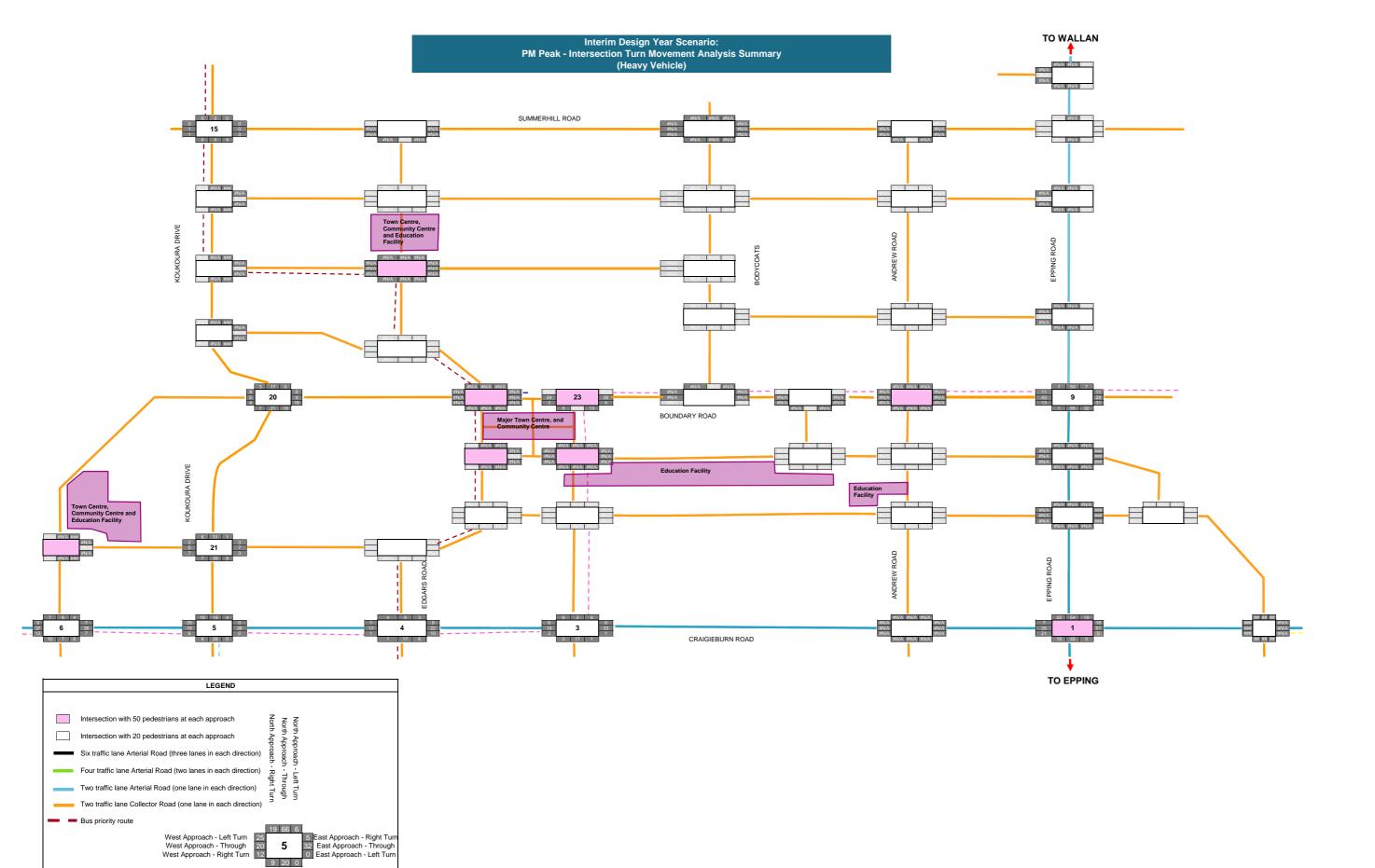




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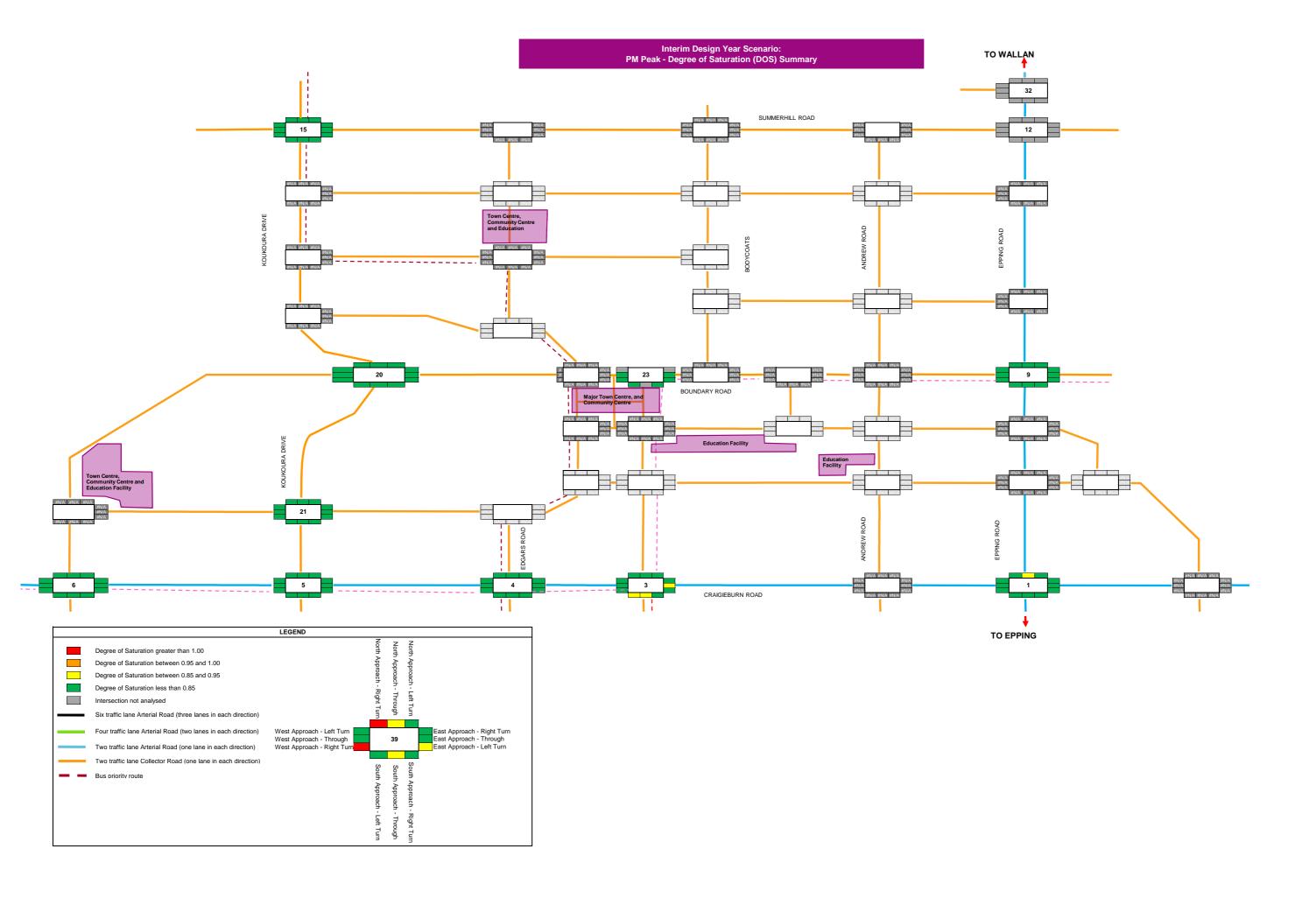
Intersection with 20 pedestrians at each approach Six traffic lane Arterial Road (three lanes in each direction) Four traffic lane Arterial Road (two lanes in each direction) Two traffic lane Arterial Road (one lane in each direction) Two traffic lane Collector Road (one lane in each direction)

Bus priority route



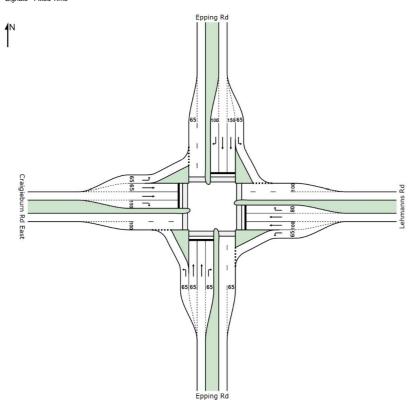
Heavy Vehicle Assumptions: 10% of LV are HV on Eppino Road applied on all approaches 6% of LV are HV on all other roads applied on all approaches

Right Turn
- Through
- Left Turn



Site: Intersection 1 PM 2026

New Site Signals - Fixed Time



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MOVEMENT SUMMARY

Site: Intersection 1 PM 2026

Mov	OD		d Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Avera
		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m		Stop Rate per veh	Spee km
South:	Epping Rd	VEIVII	/6	V/C	300		VEII			per veri	NI.
1	L2	189	10.1	0.185	17.4	LOS B	4.5	33.9	0.47	0.73	5
2	T1	547	10.1	0.830	49.7	LOS D	21.8	165.8	0.93	0.87	3
3	R2	50	0.0	0.170	55.8	LOS E	2.6	17.9	0.90	0.75	3
Approa	ach	786	9.4	0.830	42.4	LOS D	21.8	165.8	0.82	0.83	4
East: L	ehmanns R	ld.									
4	L2	53	9.4	0.055	16.1	LOS B	1.2	8.8	0.44	0.68	5
5	T1	512	10.0	0.812	50.1	LOS D	19.4	147.4	0.97	0.87	3
6	R2	177	10.2	0.681	61.7	LOS E	10.2	77.9	1.00	0.84	3
Approa	ach	742	10.0	0.812	50.5	LOS D	19.4	147.4	0.94	0.85	3
North:	Epping Rd										
7	L2	193	9.8	0.137	6.3	LOS A	1.0	7.4	0.15	0.59	5
8	T1	541	10.0	0.756	58.4	LOS E	21.1	160.0	0.94	1.06	4
9	R2	221	10.0	0.805	64.1	LOS E	13.6	103.4	1.00	0.91	2
Approa	ach	955	9.9	0.805	49.2	LOS D	21.1	160.0	0.79	0.93	3
West: (Craigieburn	Rd East									
10	L2	66	10.6	0.067	15.0	LOS B	1.4	10.4	0.41	0.68	5
11	T1	47	53.2	0.094	40.5	LOS D	1.4	14.2	0.83	0.61	4
12	R2	207	10.1	0.797	66.1	LOS E	12.7	96.8	1.00	0.89	3
Approa	ach	320	16.6	0.797	51.8	LOS D	12.7	96.8	0.85	0.81	3
All Veh	irles	2803	10.6	0.830	47.9	LOS D	21.8	165.8	0.85	0.87	3

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LUS) Mention: Dealy (IrLM 2000).

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 (Akpelik M3D).

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

Mov	Description	Demand	Average		Average Back		Prop.	Effective
	Description	Flow	Delay	Service		Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	50	49.6	LOS E	0.2	0.2	0.91	0.91
P2	East Full Crossing	50	43.4	LOS E	0.1	0.1	0.85	0.85
P3	North Full Crossing	50	49.6	LOS E	0.2	0.2	0.91	0.91
P4	West Full Crossing	50	43.4	LOS E	0.1	0.1	0.85	0.85
All Pe	destrians	200	46.5	LOS E			0.88	0.88

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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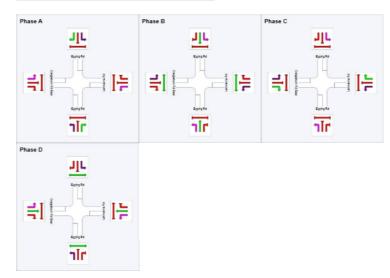
SIDRA INTERSECTION 6

PHASING SUMMARY

Site: Intersection 1 PM 2026

Phase times determined by the program Sequence: Leading Right Turn Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

Phase Timing Results Phase Reference Phase Phase Change Time (sec) Green Time (sec) Yellow Time (sec) All-Red Time (sec) Phase Time (sec) Phase Split

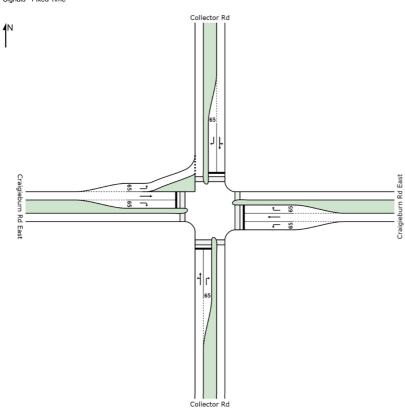




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Site: Intersection 3 PM 2026

New Site Signals - Fixed Time



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SIDRA INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 3 PM 2026

Mov	OD	Demand	Flows	Deq.	Average	Level of	95% Back o	f Queue	Prop.	Effective	Averac
		Total		Satn	Delay	Service	Vehicles	Distance		Stop Rate	Speed
C 4b	Collector R	veh/h	%	v/c	sec		veh	m		per veh	km
		-									
1	L2	33	6.1	0.848	53.7	LOS D	17.1	126.0	1.00	1.03	32
2	T1	287	5.9	0.848	49.1	LOS D	17.1	126.0	1.00	1.03	29
3	R2	21	4.8	0.167	54.4	LOS D	1.0	7.4	0.97	0.70	30
Approa	ich	341	5.9	0.848	49.9	LOS D	17.1	126.0	1.00	1.01	30
East: C	raigieburn	Rd East									
4	L2	23	4.3	0.025	19.3	LOS B	0.5	3.9	0.51	0.69	4
5	T1	544	6.1	0.849	36.1	LOS D	26.3	193.7	0.92	0.91	4
6	R2	145	6.2	0.815	61.4	LOS E	7.8	57.3	1.00	0.90	3
Approa	ich	712	6.0	0.849	40.7	LOS D	26.3	193.7	0.92	0.90	4
North:	Collector Re	d									
7	L2	102	5.9	0.317	37.9	LOS D	5.7	41.9	0.86	0.75	3
8	T1	40	5.0	0.317	33.2	LOS C	5.7	41.9	0.86	0.75	3
9	R2	95	6.3	0.764	59.9	LOS E	5.1	37.4	1.00	0.90	2
Approa	ich	237	5.9	0.764	45.9	LOS D	5.7	41.9	0.92	0.81	3.
West: (Craigieburn	Rd East									
10	L2	96	6.3	0.084	12.6	LOS B	1.5	11.1	0.39	0.68	5
11	T1	311	6.1	0.425	24.0	LOS C	11.1	81.6	0.78	0.67	5
12	R2	27	7.4	0.153	53.0	LOS D	1.3	9.3	0.95	0.72	3:
Approa	ich	434	6.2	0.425	23.3	LOS C	11.1	81.6	0.70	0.67	5
All Veh	icles	1724	6.0	0.849	38.8	LOS D	26.3	193.7	0.88	0.85	3

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LUS) Mention: Dealy (InLin 2000).

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 (Akpelik M3D).

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

Move	ment Performance - Pedestrians							
Mov ID	Description	Demand Flow	Average Delay	Level of Service	Average Back Pedestrian	of Queue Distance	Prop. Queued	Effective Stop Rate
		ped/h	sec		ped			per ped
P1	South Full Crossing	20	24.5	LOS C	0.0	0.0	0.70	0.70
P2	East Full Crossing	20	42.4	LOS E	0.1	0.1	0.92	0.92
P3	North Full Crossing	20	24.5	LOS C	0.0	0.0	0.70	0.70
P4	West Full Crossing	20	39.6	LOS D	0.1	0.1	0.89	0.89
All Ped	lestrians	80	32.8	LOS D			0.80	0.80

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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PHASING SUMMARY

Site: Intersection 3 PM 2026

Phase times determined by the program Sequence: Leading Right Turn Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

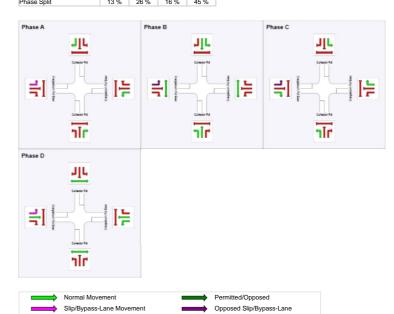
Stopped Movement

Undetected Movement

Other Movement Class Running

Mixed Running & Stopped Movement Classes

Phase Timing Results
Phase
Reference Phase
Reference Phase
Change Time (sec)
Green Time (sec)
Yellow Time (sec)
All-Red Time (sec)
Phase Time (sec)
Phase Split



Turn On Red

Other Movement Class Stopped

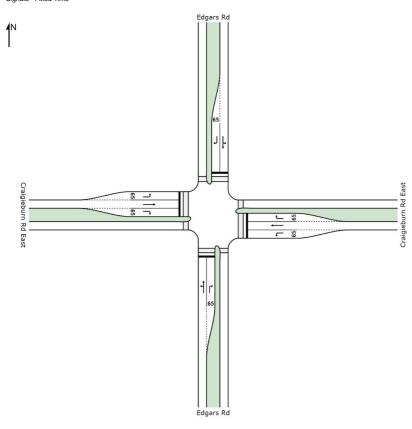
Phase Transition Applied

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Site: Intersection 4 PM 2026

New Site Signals - Fixed Time



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SIDRA INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 4 PM 2026

Mov	OD	Demano	Flows	Deg.	Average	Level of	95% Back of	of Queue	Prop.	Effective	Averag
		Total		Satn	Delay	Service	Vehicles	Distance		Stop Rate	Speed
C4b-	D.	veh/h	%	v/c	sec		veh	m		per veh	km/
	Edgars Rd										
1	L2	20	5.0	0.719	38.1	LOS D	11.7	85.7	0.98	0.88	39.
2	T1	285	6.0	0.719	33.7	LOS C	11.7	85.7	0.98	0.88	36.
3	R2	106	5.7	0.679	47.7	LOS D	4.4	32.4	1.00	0.84	34.
Approa	ach	411	5.8	0.719	37.5	LOS D	11.7	85.7	0.98	0.87	35.
East: 0	Craigieburn I	Rd East									
4	L2	164	6.1	0.211	22.1	LOS C	4.0	29.2	0.66	0.76	47.
5	T1	363	6.1	0.704	29.5	LOS C	13.3	97.9	0.96	0.84	48.
6	R2	144	6.3	0.720	47.8	LOS D	6.0	44.0	1.00	0.85	33.
Approa	ach	671	6.1	0.720	31.6	LOS C	13.3	97.9	0.89	0.82	44.
North:	Edgars Rd										
7	L2	42	7.1	0.457	33.4	LOS C	6.7	49.4	0.90	0.79	38.
8	T1	154	5.8	0.457	30.5	LOS C	6.7	49.4	0.90	0.79	37.
9	R2	61	6.6	0.393	44.4	LOS D	2.4	17.8	0.98	0.75	33.
Approa	ach	257	6.2	0.457	34.3	LOS C	6.7	49.4	0.92	0.78	36.
West: (Craigieburn	Rd East									
10	L2	20	5.0	0.025	20.6	LOS C	0.4	3.2	0.59	0.69	45.
11	T1	286	5.9	0.554	27.2	LOS C	9.7	71.6	0.91	0.77	50.
12	R2	21	4.8	0.104	42.6	LOS D	0.8	5.6	0.93	0.70	37.
Approa	ach	327	5.8	0.554	27.8	LOS C	9.7	71.6	0.89	0.76	48.
All Veh	icles	1666	6.0	0.720	32.7	LOS C	13.3	97.9	0.92	0.81	41.

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LUS) Mention: Dealy (IrLM 2000).

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 (Akpelik M3D).

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

Move	ment Performance - Pedestrians							
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate per ped
P1	South Full Crossing	20	28.1	LOS C	0.0	0.0	0.84	0.84
P2	East Full Crossing	20	34.3	LOS D	0.0	0.0	0.93	0.93
P3	North Full Crossing	20	28.1	LOS C	0.0	0.0	0.84	0.84
P4	West Full Crossing	20	34.3	LOS D	0.0	0.0	0.93	0.93
All Pe	destrians	80	31.2	LOS D			0.88	0.88

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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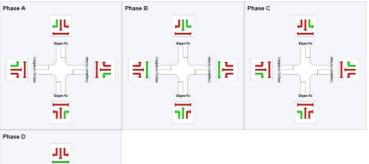
SIDRA INTERSECTION 6

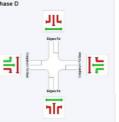
PHASING SUMMARY

Site: Intersection 4 PM 2026

Phase times determined by the program Sequence: Leading Right Turn Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

Phase Timing Results
Phase
Reference Phase
Phase Change Time (sec)
Green Time (sec)
Yellow Time (sec)
All-Red Time (sec)
Phase Time (sec)
Phase Split



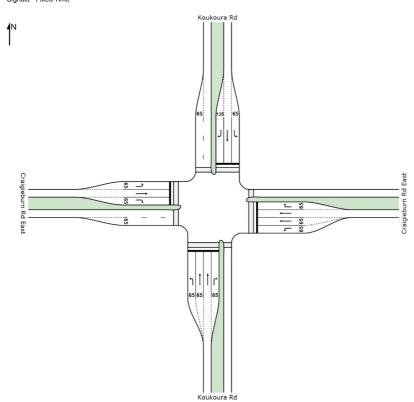




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SIDRA INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 5 PM 2026

Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Avera
		Total		Satn	Delay	Service	Vehicles	Distance		Stop Rate	Spee
Carretter	Koukoura F	veh/h	%	v/c	sec		veh	m		per veh	km
1	L2	131	6.1	0.192	31.8	LOS C	5.1	37.2	0.70	0.75	40
2	T1	473	5.9	0.744	43.9	LOS D	18.2	134.1	0.94	0.81	34
3	R2	20	0.0	0.046	43.6	LOS D	0.9	6.3	0.80	0.69	36
Approa	ach	624	5.8	0.744	41.4	LOS D	18.2	134.1	0.88	0.80	3
East: 0	Craigieburn	Rd East									
4	L2	20	0.0	0.021	21.8	LOS C	0.6	3.9	0.51	0.68	4
5	T1	435	6.0	0.720	45.0	LOS D	16.9	124.2	0.94	0.80	4
6	R2	20	0.0	0.129	63.7	LOS E	1.1	7.8	0.96	0.71	3
Approa	ach	475	5.5	0.720	44.8	LOS D	16.9	124.2	0.93	0.79	4
North:	Koukoura F	Rd									
7	L2	66	6.1	0.097	32.2	LOS C	2.4	18.0	0.67	0.73	4
8	T1	307	5.9	0.659	45.9	LOS D	16.2	119.4	0.95	0.83	3
9	R2	302	6.0	0.727	54.5	LOS D	16.8	123.8	0.98	0.86	3
Approa	ach	675	5.9	0.727	48.4	LOS D	16.8	123.8	0.94	0.83	3
West: (Craigieburn	Rd East									
10	L2	423	5.9	0.481	26.6	LOS C	15.5	114.0	0.68	0.80	4
11	T1	253	5.9	0.577	44.3	LOS D	13.2	97.4	0.94	0.79	4
12	R2	105	5.7	0.706	69.5	LOS E	6.4	47.2	1.00	0.83	2
Approa	ach	781	5.9	0.706	38.1	LOS D	15.5	114.0	0.81	0.80	4
All Veh	nicles	2555	5.8	0.744	42.9	LOS D	18.2	134.1	0.88	0.81	3

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LUS) Mention: Dealy (InLin 2000).

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 (Akpelik M3D).

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

Mov		Demand	Average		Average Back		Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	47.7	LOS E	0.1	0.1	0.89	0.89
P2	East Full Crossing	20	46.0	LOS E	0.1	0.1	0.88	0.88
P3	North Full Crossing	20	47.7	LOS E	0.1	0.1	0.89	0.89
P4	West Full Crossing	20	46.0	LOS E	0.1	0.1	0.88	0.88
All Pe	destrians	80	46.9	LOS E			0.88	0.88

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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PHASING SUMMARY

Site: Intersection 5 PM 2026

Phase times determined by the program Sequence: Leading Right Turn Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

Slip/Bypass-Lane Move

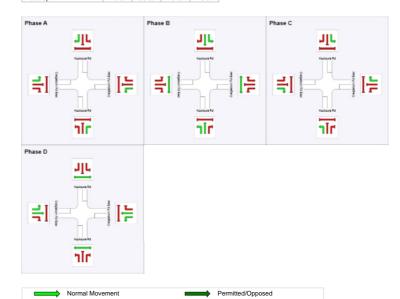
Other Movement Class Running

Mixed Running & Stopped Movement Classes

Stopped Movement

Undetected Movement

Phase Timing Results
Phase
Reference Phase
Reference Phase
Phase Change Time (sec)
Green Time (sec)
Yellow Time (sec)
All-Red Time (sec)
Phase Time (sec)
Phase Split



Opposed Slip/Bypass-Lane

Other Movement Class Stopped

Phase Transition Applied

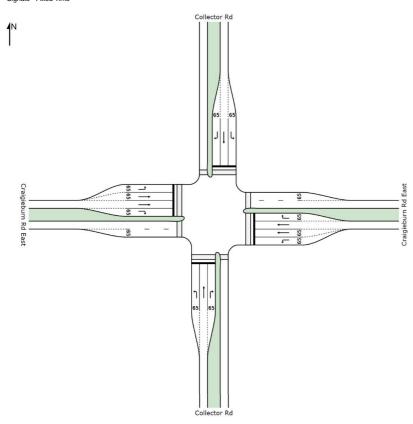
Turn On Red

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SIDRA INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 6 PM 2026

Mov	OD	Demano	Flows	Deg.	Average	Level of	95% Back of	of Queue	Prop.	Effective	Averag
		Total		Satn	Delay	Service	Vehicles	Distance		Stop Rate	Speed
South:	Collector R	veh/h	%	v/c	sec		veh	m		per veh	km
1	1.2	164	6.1	0.214	23.7	LOSC	5.0	36.7	0.66	0.73	41.
	T1					LOS C			0.86		
2		116	6.0	0.269	34.4		4.7	34.6		0.69	34
3	R2	101	5.9	0.709	57.6	LOS E	5.2	38.6	1.00	0.86	30
Approa	ach	381	6.0	0.709	35.9	LOS D	5.2	38.6	0.81	0.75	35
East: 0	Craigieburn	Rd East									
4	L2	122	5.7	0.152	24.3	LOS C	3.5	25.5	0.62	0.75	43
5	T1	631	6.0	0.835	36.7	LOS D	21.9	161.1	0.92	0.86	44
6	R2	115	6.1	0.461	51.3	LOS D	5.3	39.4	0.96	0.79	33
Approa	ach	868	6.0	0.835	36.9	LOS D	21.9	161.1	0.88	0.83	42
North:	Collector Re	d									
7	L2	72	5.6	0.094	22.6	LOS C	2.1	15.1	0.62	0.69	42
8	T1	94	6.4	0.218	33.9	LOS C	3.8	27.7	0.85	0.67	34
9	R2	118	5.9	0.828	61.3	LOS E	6.4	47.3	1.00	0.97	29
Approa	ach	284	6.0	0.828	42.4	LOS D	6.4	47.3	0.86	0.80	33
West: (Craigieburn	Rd East									
10	L2	157	5.7	0.196	24.7	LOS C	4.6	33.6	0.64	0.76	43
11	T1	610	6.1	0.827	36.1	LOS D	20.6	151.4	0.91	0.84	44
12	R2	201	6.0	0.806	58.2	LOS E	10.5	77.6	1.00	0.90	31
Approa	ach	968	6.0	0.827	38.8	LOS D	20.6	151.4	0.88	0.84	40
All Veh	irles	2501	6.0	0.835	38.1	LOS D	21.9	161.1	0.87	0.82	39

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LOS) Method: Delay (HCM 2000).

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 (Akpelik M3D).

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

Mov		Demand	Average		Average Back		Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
P1	South Full Crossing	20	32.8	LOS D	0.0	0.0	0.81	0.81
P2	East Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P3	North Full Crossing	20	32.8	LOS D	0.0	0.0	0.81	0.81
P4	West Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
All Pe	destrians	80	38.5	LOS D			0.88	0.88

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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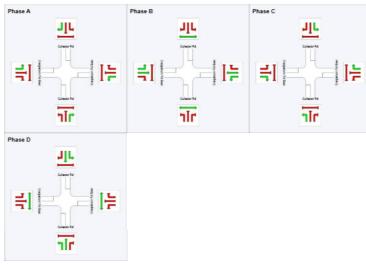
SIDRA INTERSECTION 6

PHASING SUMMARY

Site: Intersection 6 PM 2026

Phase times determined by the program Sequence: Variable Phasing Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

Phase Timing Results Phase Reference Phase Phase Change Time (sec) Green Time (sec) Yellow Time (sec) All-Red Time (sec) Phase Time (sec) Phase Split

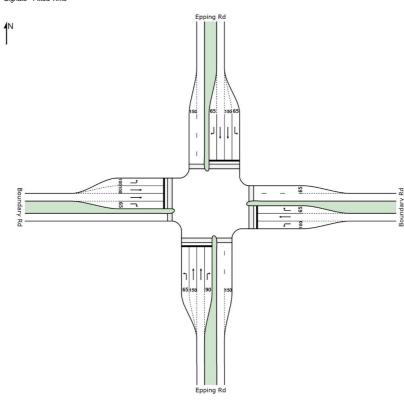


	Normal Movement	$ \Longrightarrow $	Permitted/Opposed
\longrightarrow	Slip/Bypass-Lane Movement	\longrightarrow	Opposed Slip/Bypass-Lane
	Stopped Movement		Turn On Red
$\qquad \Longrightarrow \qquad$	Other Movement Class Running		Other Movement Class Stopped
	Mixed Running & Stopped Movement C	lasses	
	Undetected Movement	•	Phase Transition Applied

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MOVEMENT SUMMARY

Site: Intersection 9 PM 2026

Mov	OD	Deman		Deg.	Average		95% Back	of Queue	Prop.	Effective	Average
		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m		Stop Rate per veh	Speed km/h
South	Epping Rd										
1	L2	20	5.0	0.031	27.6	LOS C	0.6	4.5	0.67	0.68	40.4
2	T1	549	10.0	0.779	42.2	LOS D	14.9	113.2	0.99	0.88	35.5
3	R2	321	10.0	0.805	50.2	LOS D	16.3	123.8	1.00	0.92	33.4
Appro	ach	890	9.9	0.805	44.8	LOS D	16.3	123.8	0.98	0.89	34.8
East:	Boundary Ro	ı									
4	L2	310	10.0	0.344	22.1	LOS C	8.8	66.6	0.62	0.78	47.3
5	T1	287	10.1	0.682	41.3	LOS D	13.1	100.0	0.97	0.84	38.9
6	R2	111	9.9	0.711	59.5	LOS E	5.7	43.6	1.00	0.84	32.1
Appro	ach	708	10.0	0.711	35.7	LOS D	13.1	100.0	0.82	0.81	40.7
North:	Epping Rd										
7	L2	69	10.1	0.111	28.5	LOS C	2.2	17.0	0.70	0.72	41.5
8	T1	496	10.1	0.704	40.3	LOS D	12.8	97.0	0.97	0.83	36.2
9	R2	68	10.3	0.171	39.3	LOS D	2.7	20.5	0.84	0.74	36.0
Appro	ach	633	10.1	0.704	38.9	LOS D	12.8	97.0	0.93	0.81	36.7
West:	Boundary R	d									
10	L2	109	10.1	0.121	18.7	LOS B	2.7	20.4	0.54	0.70	44.7
11	T1	429	10.0	0.717	43.4	LOS D	14.2	107.6	0.95	0.87	39.9
12	R2	126	10.3	0.809	60.9	LOS E	6.8	51.7	1.00	0.93	29.7
Appro	ach	664	10.1	0.809	42.7	LOS D	14.2	107.6	0.89	0.86	38.1
All Vel	hicles	2895	10.0	0.809	40.8	LOS D	16.3	123.8	0.91	0.84	37.3

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LUS) Mention: Dealy (IrLM 2000).

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 (Akpelik M3D).

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

Mov ID	Description	Demand Flow	Average Delav	Level of Service	Average Back Pedestrian	of Queue Distance	Prop. Queued	Effective Stop Rate
		ped/h	sec		ped	m	Queucu	per ped
P1	South Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P2	East Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P3	North Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
P4	West Full Crossing	20	44.2	LOS E	0.1	0.1	0.94	0.94
All Pe	destrians	80	44.2	LOS E			0.94	0.94

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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SIDRA INTERSECTION 6

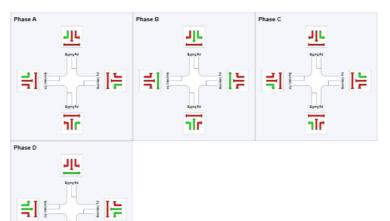
PHASING SUMMARY

Site: Intersection 9 PM 2026

Phase times determined by the program Sequence: Leading Right Turn Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

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Phase Timing Results
Phase
Reference Phase
Phase Change Time (sec)
Green Time (sec)
Yellow Time (sec)
All-Red Time (sec)
Phase Time (sec)
Phase Split

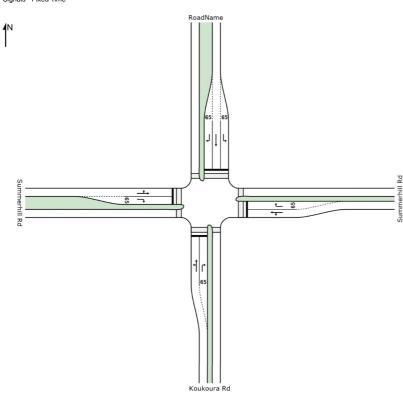




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INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 15 PM 2026

Mov	OD	Demano	Flows	Deq.	Average	Level of	95% Back o	f Queue	Prop.	Effective	Averac
		Total		Satn	Delay	Service	Vehicles	Distance		Stop Rate	Speed
C 4b	Koukoura F	veh/h	%	v/c	sec		veh	m		per veh	km
1	L2	20	0.0	0.087	29.3	LOS C	1.1	7.5	0.80	0.66	48
2	T1	20	0.0	0.087	22.4	LOS C	1.1	7.5	0.80	0.66	51
3	R2	68	5.9	0.382	41.0	LOS D	2.3	17.1	0.97	0.76	39
Approa	ich	108	3.7	0.382	35.4	LOS D	2.3	17.1	0.91	0.72	43
East: S	Summerhill F	Rd									
4	L2	53	5.7	0.124	24.9	LOS C	1.8	12.8	0.73	0.70	49
5	T1	20	0.0	0.124	17.9	LOS B	1.8	12.8	0.73	0.70	53
6	R2	20	0.0	0.126	40.8	LOS D	0.7	4.7	0.95	0.70	40
Approa	ich	93	3.2	0.126	26.8	LOS C	1.8	12.8	0.78	0.70	4
North:	RoadName										
7	L2	20	0.0	0.126	40.8	LOS D	0.7	4.7	0.95	0.70	40
8	T1	20	0.0	0.048	23.8	LOS C	0.5	3.8	0.82	0.59	52
9	R2	20	0.0	0.108	39.3	LOS D	0.7	4.6	0.94	0.70	4
Approa	ich	60	0.0	0.126	34.6	LOS C	0.7	4.7	0.90	0.66	4
West: S	Summerhill	Rd									
10	L2	20	0.0	0.075	26.7	LOS C	1.0	7.2	0.76	0.65	50
11	T1	20	5.0	0.075	19.8	LOS B	1.0	7.2	0.76	0.65	5
12	R2	22	4.5	0.143	40.9	LOS D	0.7	5.4	0.96	0.70	40
Approa	ich	62	3.2	0.143	29.5	LOS C	1.0	7.2	0.83	0.67	4
All Veh	icles	323	2.8	0.382	31.6	LOSC	2.3	17.1	0.86	0.69	4

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LUS) Mention: Dealy (InLin 2000).

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 (Akpelik M3D).

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

Move	ment Performance - Pedestrians							
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Service	Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate per ped
P1	South Full Crossing	20	26.6	LOS C	0.0	0.0	0.87	0.87
P2	East Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
P3	North Full Crossing	50	29.3	LOS C	0.1	0.1	0.92	0.92
P4	West Full Crossing	20	29.3	LOS C	0.0	0.0	0.92	0.92
All Pe	destrians	110	28.8	LOS C			0.91	0.91

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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PHASING SUMMARY

Site: Intersection 15 PM 2026

Phase times determined by the program Sequence: Leading Right Turn Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

Slip/Bypass-Lane Moven

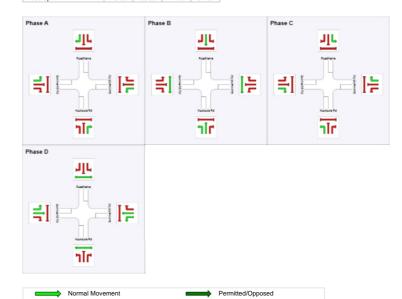
Other Movement Class Running

Mixed Running & Stopped Movement Classes

Stopped Movement

Undetected Movement

Phase Timing Results Phase Reference Phase Phase Change Time (sec) Green Time (sec) Yellow Time (sec) All-Red Time (sec) Phase Time (sec) Phase Split



Opposed Slip/Bypass-Lane

Other Movement Class Stopped

Phase Transition Applied

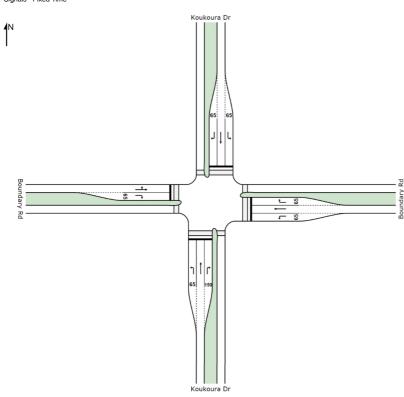
Turn On Red

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SIDRA INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 20 PM 2026

Mov	OD	Demano	Flows	Deq.	Average	Level of	95% Back o	f Queue	Prop.	Effective	Averag
		Total		Satn	Delay	Service	Vehicles	Distance		Stop Rate	Speed
0 11	Koukoura [veh/h	%	v/c	sec		veh	m		per veh	km
1	L2	119	5.9	0.272	43.4	LOS D	5.2	38.2	0.85	0.78	35
2	T1	356	5.9	0.809	46.6	LOS D	19.3	142.1	0.99	0.92	39
3	R2	263	6.1	0.602	47.2	LOS D	12.7	93.2	0.94	0.83	35
Approa	ach	738	6.0	0.809	46.3	LOS D	19.3	142.1	0.95	0.87	37
East: E	Boundary Ro	i									
4	L2	271	5.9	0.797	56.4	LOS E	15.1	110.9	1.00	0.90	31
5	T1	72	5.6	0.200	41.9	LOS D	3.3	24.1	0.88	0.71	33
6	R2	5	0.0	0.014	44.1	LOS D	0.2	1.5	0.83	0.65	36
Approa	ach	348	5.7	0.797	53.2	LOS D	15.1	110.9	0.97	0.86	32
North:	Koukoura D)r									
7	L2	20	0.0	0.059	47.1	LOS D	0.9	6.2	0.86	0.71	35
8	T1	281	6.0	0.824	52.9	LOS D	16.0	117.8	1.00	0.94	37
9	R2	44	6.8	0.137	48.0	LOS D	2.0	14.8	0.87	0.74	33
Approa	ach	345	5.8	0.824	52.0	LOS D	16.0	117.8	0.98	0.90	36
West: I	Boundary R	d									
10	L2	73	5.5	0.542	51.2	LOS D	8.2	60.3	0.97	0.80	32
11	T1	90	5.6	0.542	48.3	LOS D	8.2	60.3	0.97	0.80	31
12	R2	63	6.3	0.217	48.3	LOS D	3.0	22.0	0.91	0.75	32
Approa	ach	226	5.8	0.542	49.2	LOS D	8.2	60.3	0.95	0.79	32
All Veh	icles	1657	5.9	0.824	49.3	LOS D	19.3	142.1	0.96	0.86	35

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LUS) Mention: Dealy (InLin 2000).

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 (Akpelik M3D).

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

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description		Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h			ped			per ped
P1	South Full Crossing	20	46.4	LOS E	0.1	0.1	0.92	0.92
P2	East Full Crossing	20	47.3	LOS E	0.1	0.1	0.93	0.93
P3	North Full Crossing	20	49.2	LOS E	0.1	0.1	0.95	0.95
P4	West Full Crossing	20	38.5	LOS D	0.1	0.1	0.84	0.84
All Pe	destrians	80	45.4	LOS E			0.91	0.91

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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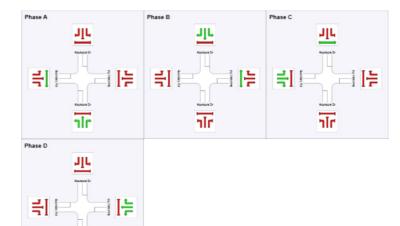
PHASING SUMMARY

Site: Intersection 20 PM 2026

Phase times determined by the program Sequence: Split Phasing Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

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Phase Timing Results
Phase
Reference Phase
Phase Change Time (sec)
Green Time (sec)
Yellow Time (sec)
All-Red Time (sec)
Phase Time (sec)
Phase Split



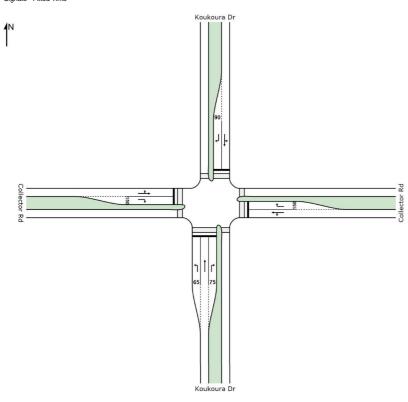


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MOVEMENT SUMMARY

Site: Intersection 21 PM 2026

Mov	OD	Demano	Flows	Deg.	Average	Level of	95% Back of	of Queue	Prop.	Effective	Avera
		Total	HV	Satn	Delay	Service	Vehicles	Distance		Stop Rate	Spee
South:	Koukoura D	veh/h Or	%	v/c	sec		veh	m		per veh	km
1	L2	112	6.3	0.108	17.9	LOS B	2.6	19.4	0.47	0.72	47
2	T1	657	5.9	0.830	29.7	LOS C	31.0	228.1	0.88	0.84	4
3	R2	130	6.2	0.804	66.5	LOS E	7.6	55.9	1.00	0.88	2
Approa	ach	899	6.0	0.830	33.5	LOS C	31.0	228.1	0.84	0.83	4
East: C	Collector Rd										
4	L2	42	7.1	0.507	50.9	LOS D	7.7	56.7	0.96	0.78	3
5	T1	111	6.3	0.507	46.3	LOS D	7.7	56.7	0.96	0.78	3
6	R2	48	6.3	0.186	31.6	LOS C	1.7	12.3	0.91	0.73	3
Approa	nch	201	6.5	0.507	43.7	LOS D	7.7	56.7	0.95	0.77	3
North:	Koukoura D)r									
7	L2	20	5.0	0.597	29.2	LOS C	20.5	150.8	0.78	0.70	4
8	T1	509	6.1	0.597	22.1	LOS C	20.5	150.8	0.78	0.70	5
9	R2	94	6.4	0.582	61.5	LOS E	5.1	37.8	1.00	0.79	3
Approa	ach	623	6.1	0.597	28.3	LOS C	20.5	150.8	0.82	0.72	4
West: 0	Collector Ro	i									
10	L2	33	6.1	0.396	49.9	LOS D	5.9	43.3	0.94	0.76	3
11	T1	87	5.7	0.396	45.3	LOS D	5.9	43.3	0.94	0.76	3
12	R2	124	5.6	0.478	33.2	LOS C	4.6	33.4	0.96	0.78	3
Approa	ach	244	5.7	0.478	39.7	LOS D	5.9	43.3	0.95	0.77	3
All Veh	icles	1967	6.0	0.830	33.7	LOS C	31.0	228.1	0.86	0.78	4

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LOS) Method: Delay (HCM 2000).

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 (Akpelik M3D).

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

Mov		Demand	Average		Average Back		Prop.	Effective
	Description	Flow	Delay	Service	Pedestrian	Distance	Queued	Stop Rate
		ped/h	sec		ped	m		per ped
21	South Full Crossing	20	49.2	LOS E	0.1	0.1	0.95	0.95
2	East Full Crossing	20	20.4	LOS C	0.0	0.0	0.61	0.61
3	North Full Crossing	20	46.4	LOS E	0.1	0.1	0.92	0.92
94	West Full Crossing	20	20.4	LOS C	0.0	0.0	0.61	0.61
All Pe	destrians	80	34.1	LOS D			0.77	0.77

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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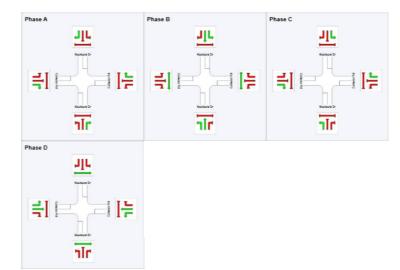
SIDRA INTERSECTION 6

PHASING SUMMARY

Site: Intersection 21 PM 2026

Phase times determined by the program Sequence: Variable Phasing Movement Class: All Movement Classes Input Sequence: A, B, C, D Output Sequence: A, B, C, D

Phase Timing Results Phase Reference Phase Phase Change Time (sec) Green Time (sec) Yellow Time (sec) All-Red Time (sec) Phase Time (sec) Phase Split

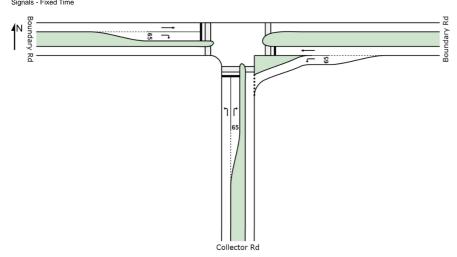


Normal Movement Slip/Bypass-Lane Movement Stopped Movement Other Movement Class Running Mixed Running & Stopped Movement Classes Undestood Movement Demitted/Opposed Opposed Slip/Bypass-Lane Turn On Red Other Movement Class Stopped Mixed Running & Stopped Movement Classes				
Stopped Movement Turn On Red Other Movement Class Running Other Movement Class Stopped Mixed Running & Stopped Movement Classes	$ \Longrightarrow $	Normal Movement	\longrightarrow	Permitted/Opposed
Other Movement Class Running Other Movement Class Stopped Mixed Running & Stopped Movement Classes	\longrightarrow	Slip/Bypass-Lane Movement	\longrightarrow	Opposed Slip/Bypass-Lane
Mixed Running & Stopped Movement Classes		Stopped Movement		Turn On Red
,	\Longrightarrow	Other Movement Class Running		Other Movement Class Stopped
Lindstacted Mayament Phase Transition Applied		Mixed Running & Stopped Movement C	Classes	
Triase transition Applied		Undetected Movement	•	Phase Transition Applied

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New Site Signals - Fixed Time



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SIDRA INTERSECTION 6

MOVEMENT SUMMARY

Site: Intersection 23 PM 2026

Mov	OD	Demand		Deg.	Average		95% Back	of Queue	Prop.	Effective	Average
		Total		Satn	Delay	Service	Vehicles	Distance		Stop Rate	Speed
		veh/h	%	v/c	sec		veh			per veh	km/h
South:	Collector Ro	d									
1	L2	76	6.6	0.093	17.5	LOS B	1.7	12.2	0.59	0.68	42.2
3	R2	215	6.0	0.604	37.1	LOS D	7.9	58.2	0.96	0.82	34.3
Approa	ch	291	6.2	0.604	32.0	LOS C	7.9	58.2	0.86	0.78	36.1
East: B	oundary Ro	ı									
4	L2	74	5.4	0.053	6.3	LOS A	0.3	1.9	0.18	0.59	50.0
5	T1	436	6.0	0.599	21.2	LOS C	13.7	100.8	0.85	0.74	44.5
Approa	ch	510	5.9	0.599	19.1	LOS B	13.7	100.8	0.76	0.72	45.2
West: E	Boundary Ro	d									
11	T1	408	5.9	0.561	20.8	LOS C	12.6	92.4	0.84	0.73	44.7
12	R2	41	4.9	0.122	35.3	LOS D	1.4	9.9	0.86	0.73	35.3
Approa	ch	449	5.8	0.561	22.1	LOSC	12.6	92.4	0.84	0.73	43.6
All Vehi	icles	1250	5.9	0.604	23.2	LOSC	13.7	100.8	0.81	0.74	42.2

Level of Service (LOS) Method: Delay (HCM 2000).

Level of Service (LOS) Method: Jelay (HCM 2000).

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 (Akpelik M3D),

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

Mov		Demand	Average	Level of	Average Back	of Queue	Prop.	Effective
	Description	Flow ped/h	Delay sec		Pedestrian ped	Distance m		Stop Rate per ped
P1	South Full Crossing	50	21.1	LOS C	0.1	0.1	0.73	0.73
P2	East Full Crossing	50	34.3	LOS D	0.1	0.1	0.93	0.93
P4	West Full Crossing	50	33.4	LOS D	0.1	0.1	0.91	0.91
All Pe	destrians	150	29.6	LOSC			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.

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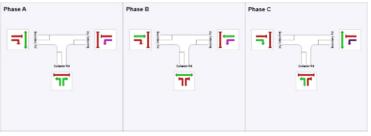


PHASING SUMMARY

Site: Intersection 23 PM 2026

Phase times determined by the program Sequence: Variable Phasing Movement Class: All Movement Classes Input Sequence: A, B, C Output Sequence: A, B, C

Phase Timing Results Phase Reference Phase Phase Change Time (sec) Green Time (sec) Yellow Time (sec) All-Red Time (sec) Phase Time (sec) Phase Split



	Normal Movement	\longrightarrow	Permitted/Opposed
\longrightarrow	Slip/Bypass-Lane Movement	\longrightarrow	Opposed Slip/Bypass-Lane
	Stopped Movement		Turn On Red
\Longrightarrow	Other Movement Class Running		Other Movement Class Stopped
	Mixed Running & Stopped Movement	Classes	
	Undetected Movement	•	Phase Transition Applied

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