



Appendix B

VISSIM model outputs



B1. 2021 Base VISSIM model outputs

Table B1.1 2021 Base AM volumes

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	61	91	25	16	201	13	14	86	182	32	78	38	0	0	0	0	836
Hibberson Street/ Gungahlin Place	68	139	0	16	40	23	23	106	11	13	37	73	0	0	0	0	549
Hibberson Street/ Hinder Street	52	180	84	125	154	14	23	136	37	11	58	55	0	0	0	0	930
Hibberson Street/ Kate Crace Street	179	270	146	443	230	44	33	282	4	4	93	152	0	0	0	0	1879
Flemington Road/ Manning Clark Crescent/ Hamer Street	2	539	46	20	5	0	8	780	90	57	3	1	0	38	0	0	1590
Flemington Road/ Wizard Street	0	556	56	114	0	2	35	807	0	0	0	0	0	6	0	0	1576
Flemington Road/ De Bortoli Street	0	0	0	0	335	0	26	0	901	0	0	0	0	0	0	0	1262
Flemington Road/ Diane Barwick Street	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	4
Flemington Road/ Moonlight Avenue	0	0	0	0	1194	40	0	0	89	0	0	0	0	0	0	0	1324
Flemington Road/ Mapleton Avenue	119	30	181	237	1047	25	19	74	116	23	432	71	6	0	24	0	2404

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Nullabor Avenue	380	67	146	82	1138	18	28	134	52	14	346	91	0	0	29	0	2526
Flemington Road/ Well Station Drive	63	112	65	0	1233	394	128	145	114	50	296	65	0	0	0	0	2665
Flemington Road/ Mitchell Resource Centre	0	0	0	0	1411	0	0	0	0	0	415	0	0	0	0	0	1826
Flemington Road/ Lysaght Street	0	0	0	0	1243	166	80	0	106	234	335	0	0	0	0	0	2165
Flemington Road/ Sandford Street/ Morisset Road	1	252	113	371	947	33	58	227	184	203	410	0	1	0	0	0	2800
Flemington Road/ Randwick Road	0	0	0	0	1039	91	31	0	13	48	576	0	0	0	0	0	1797
Flemington Road/ EPIC	0	0	0	4	1051	0	0	0	0	0	638	4	0	0	0	0	1697
Flemington Road/ Federal Highway	1104	0	109	15	1035	0	0	0	0	0	529	358	0	0	0	0	3151
Federal Highway/ Phillip Avenue	133	0	176	725	1434	0	0	0	0	0	706	218	0	0	0	0	3392
Federal Highway/ Barton Highway	0	0	0	0	1186	381	328	0	1246	227	607	0	0	0	0	0	3976
Northbourne Avenue/ Swinden Street	68	0	24	487	1953	0	0	0	0	11	831	21	0	0	0	0	3396
Northbourne Avenue/ Mouat Street/ Antill Street	388	445	158	95	1719	161	113	630	606	150	564	143	0	0	10	0	5182
Northbourne Avenue/ Murdoch Street	0	0	0	0	2585	158	87	0	0	7	779	0	0	0	0	0	3617

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Morphett Street	0	0	0	106	2488	0	0	0	0	0	787	263	0	0	0	0	3643
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	64	277	180	598	1804	154	256	597	340	233	683	41	5	0	8	0	5240
Northbourne Avenue/ Ipima Street/ Condamine Street	147	116	121	251	1811	23	23	215	153	46	832	85	49	0	0	0	3873
Northbourne Avenue/ Masson Street/ Girrahween Street	70	107	116	305	1739	81	33	298	106	50	825	30	15	0	0	0	3775
Northbourne Avenue/ Gould Street/ Elouera Street	86	124	88	45	1765	13	29	56	24	33	744	116	32	0	17	0	3169
Northbourne Avenue/ Barry Drive/ Cooyong Street	103	328	145	193	1405	320	89	576	304	147	765	230	0	0	0	0	4605
Northbourne Avenue/ Rudd Street/ Bunda Street	118	97	38	64	1690	63	72	83	16	137	1035	145	0	0	30	0	3587
Northbourne Avenue/ Alinga Street	3	26	2	0	1811	50	15	30	50	106	1337	0	0	0	0	0	3431
Northbourne Avenue/ London Circuit	6	81	109	337	1399	112	136	150	255	123	1192	126	0	0	0	0	4027

Table B1.2 2021 Base AM Greentime

AM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Hibberson Street/ Gozzard Street	11	11	11	45	45	9	11	11	11	45	45	9	
Hibberson Street/ Gungahlin Place													
Hibberson Street/ Hinder Street													
Hibberson Street/ Kate Crace Street													
Flemington Road/ Manning Clark Crescent/ Hamer Street		43	9		12	9		43	9		12	9	
Flemington Road/ Wizard Street		77	6	9		9		64					
Flemington Road/ De Bortoli Street													
Flemington Road/ Diane Barwick Street													
Flemington Road/ Moonlight Avenue													
Flemington Road/ Mapleton Avenue		11	11		41	9		11	11		41	9	
Flemington Road/ Nullabor Avenue		11	15		31	7		11	15		17	8	
Flemington Road/ Well Station Drive		20	9		47	10		20	9		32	11	

AM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Flemington Road/ Mitchell Resource Centre													
Flemington Road/ Lysaght Street													
Flemington Road/ Sandford Street/ Morisset Road		10	10		27	5		11	11	27	27	5	
Flemington Road/ Randwick Road													
Flemington Road/ EPIC													
Flemington Road/ Federal Highway	57		9		54							42	
Federal Highway/ Phillip Avenue		25	25		71	15	0	0	0	71	71	15	
Federal Highway/ Barton Highway					60	24			37		34		
Northbourne Avenue/ Swinden Street													
Northbourne Avenue/ Mouat Street/ Antill Street		17	17		42	16		29	29		42	16	
Northbourne Avenue/ Murdoch Street	18				35				18				
Northbourne Avenue/ Morphett Street			18							18	35		

AM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue		17	17		51	11		24	24		28	7	
Northbourne Avenue/ Ipima Street/ Condamine Street		18	18		57	10		17	17		57	10	
Northbourne Avenue/ Masson Street/ Girrahween Street	15	15	15		57	10		19	19	57	57	10	
Northbourne Avenue/ Gould Street/ Elouera Street	15	15	15	62	62	11	12	12	12	62	62	11	
Northbourne Avenue/ Barry Drive/ Cooyong Street	19	19	19		42	20		21	21	31	42	20	
Northbourne Avenue/ Rudd Street/ Bunda Street	15	15	19		76	19	13	13	17	76	76	17	
Northbourne Avenue/ Alinga Street	14	14	18	71	71	18	13	13	17	76	76	17	
Northbourne Avenue/ London Circuit		13	17	71	71	17	20	20	24		66	24	

Table B1.3 2021 Base AM Delay

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	45.4	38.8	56.9	20.5	16.4	39.4	53.8	55.2	55.7	14.6	18.5	39.3					36.9
Hibberson Street/ Gungahlin Place	0.3	0.3		1.1	0.9	1.7	0.5	2.8	0.5	1.2	1.1	1.4					1.2
Hibberson Street/ Hinder Street	1.1	8.9	0.7	1.5	2.6	2.7	0.6	0.8	1.3	1.3	1.9	3.8					3.1
Hibberson Street/ Kate Crace Street	20.7	19.9	20.5	23.3	21.2	20.6	8.4	7.9	21.6	10.6	7.5	7.4					17.4
Flemington Road/ Manning Clark Crescent/ Hamer Street	0.3	6.4	44.7	0.9	45.0		15.7	21.8	50.5	1.2	48.6	47.5		47.3			18.6
Flemington Road/ Wizard Street		8.3	32.2	2.5		43.6	3.6	15.1						36.2			12.3
Flemington Road/ De Bortoli Street					16.6		1.2		5.3								8.2
Flemington Road/ Diane Barwick Street										0.0	0.0						0.0
Flemington Road/ Moonlight Avenue					21.8	15.1			211.2								34.4
Flemington Road/ Mapleton Avenue	26.4	42.8	54.7	78.7	103.6	51.3	1.0	47.5	57.2	1.6	13.9	61.4	64.4		56.4		68.7
Flemington Road/ Nullabor Avenue	29.4	55.1	48.2	21.7	51.7	17.5	4.6	45.0	46.7	3.4	36.0	52.1	21.0		53.0		43.6
Flemington Road/ Well Station Drive	25.6	44.8	55.6		68.9	38.0	1.2	46.3	77.6	3.6	35.0	51.8					52.4

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					13.2						0.3						10.3
Flemington Road/ Lysaght Street					0.4	2.3	1.6		3.3	1.9	2.0						1.2
Flemington Road/ Sandford Street/ Morisset Road	11.5	35.9	34.5	3.5	37.8	42.5	35.5	40.2	45.9	20.6	20.4	46.1	56.1				29.9
Flemington Road/ Randwick Road					9.6	11.0	0.5		9.2	3.2	1.1						6.6
Flemington Road/ EPIC				2.4	12.5		6.0				0.3	5.2					7.9
Flemington Road/ Federal Highway	29.4		79.5	11.6	28.0						8.4	24.5					26.5
Federal Highway/ Phillip Avenue	0.8		44.5	6.7	16.6						39.1	98.1					25.2
Federal Highway/ Barton Highway					34.4	141.0	90.3		132.8	2.0	32.8						78.0
Northbourne Avenue/ Swinden Street	6.2		14.0	3.4	7.9					0.8	1.2	2.6					5.6
Northbourne Avenue/ Mouat Street/ Antill Street	10.8	62.4	55.6	9.8	66.4	137.2	34.2	63.0	63.5	4.8	48.7	90.9			92.2		58.3
Northbourne Avenue/ Murdoch Street					25.3	14.1	1.2			0.5	0.3						18.8
Northbourne Avenue/ Morphett Street				1.1	0.5						3.9	14.9					2.3

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	12.9	55.5	55.0	13.7	40.7	34.9	132.4	185.9	175.5	21.4	62.0	47.7	29.8		79.5		70.2
Northbourne Avenue/ Ipima Street/ Condamine Street	30.5	70.2	66.1	16.3	22.6	65.3	43.5	63.6	63.4	21.3	35.0	46.5	69.4				33.3
Northbourne Avenue/ Masson Street/ Girrahween Street	58.2	57.6	59.5	11.7	14.8	70.1	156.7	185.5	186.5	3.9	6.6	57.6	46.7				37.2
Northbourne Avenue/ Gould Street/ Elouera Street	58.8	61.5	59.8	29.7	4.3	41.6	53.1	56.1	52.7	47.1	44.1	46.9	87.7		70.0		24.3
Northbourne Avenue/ Barry Drive/ Cooyong Street	55.8	53.1	52.0	19.8	23.7	110.6	14.7	52.5	51.5	13.4	21.9	74.0					40.4
Northbourne Avenue/ Rudd Street/ Bunda Street	55.5	57.8	50.7	1.9	9.9	91.7	54.8	59.3	66.2	6.6	9.5	118.6			88.1		21.5
Northbourne Avenue/ Alinga Street	26.0	60.0	88.4	24.9	7.4	65.1	51.0	56.4	59.4	3.3	5.2						9.1
Northbourne Avenue/ London Circuit	4.0	57.9	52.7	13.7	7.1	83.1	51.6	56.0	51.1	12.5	21.7	87.2					25.1

Table B1.4 2021 Base AM Level of Service

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	D	C	E	B	B	C	D	D	D	B	B	C					C
Hibberson Street/ Gungahlin Place	A	A		A	A	A	A	A	A	A	A	A					A
Hibberson Street/ Hinder Street	A	A	A	A	A	A	A	A	A	A	A	A					A
Hibberson Street/ Kate Crace Street	B	B	B	B	B	B	A	A	B	A	A	A					B
Flemington Road/ Manning Clark Crescent/ Hamer Street	A	A	D	A	D		B	B	D	A	D	D		D			B
Flemington Road/ Wizard Street		A	C	A		D	A	B						C			A
Flemington Road/ De Bortoli Street					B		A		A								A
Flemington Road/ Diane Barwick Street										A	A						A
Flemington Road/ Moonlight Avenue					B	B			F								C
Flemington Road/ Mapleton Avenue	B	D	D	F	F	D	A	D	E	A	A	E	E		E		E
Flemington Road/ Nullabor Avenue	C	D	D	B	D	B	A	D	D	A	C	D	B		D		D
Flemington Road/ Well Station Drive	B	D	D		E	C	A	D	F	A	C	D					D

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					A						A						A
Flemington Road/ Lysaght Street					A	A	A		A	A	A						A
Flemington Road/ Sandford Street/ Morisset Road	A	C	C	A	C	D	C	C	D	B	B	D	E				C
Flemington Road/ Randwick Road					A	A	A		A	A	A						A
Flemington Road/ EPIC				A	A		A				A	A					A
Flemington Road/ Federal Highway	C		F	A	B						A	B					B
Federal Highway/ Phillip Avenue	A		D	A	B						C	F					B
Federal Highway/ Barton Highway					C	F	F		F	A	C						F
Northbourne Avenue/ Swinden Street	A		A	A	A					A	A	A					A
Northbourne Avenue/ Mouat Street/ Antill Street	A	E	D	A	E	F	C	E	E	A	D	F			F		E
Northbourne Avenue/ Murdoch Street					B	B	A			A	A						B
Northbourne Avenue/ Morphett Street				A	A						A	B					A

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	A	D	D	A	C	C	F	F	F	B	E	D	C		F		F
Northbourne Avenue/ Ipima Street/ Condamine Street	C	F	E	B	B	E	D	E	E	B	C	D	E				C
Northbourne Avenue/ Masson Street/ Girrahween Street	E	E	E	A	B	F	F	F	F	A	A	E	D				C
Northbourne Avenue/ Gould Street/ Elouera Street	E	E	E	C	A	C	D	E	D	D	D	D	F		E		B
Northbourne Avenue/ Barry Drive/ Cooyong Street	D	D	D	B	B	F	B	D	D	A	B	F					C
Northbourne Avenue/ Rudd Street/ Bunda Street	D	E	D	A	A	F	D	E	E	A	A	F			F		B
Northbourne Avenue/ Alinga Street	B	E	F	B	A	E	D	E	E	A	A						A
Northbourne Avenue/ London Circuit	A	E	D	A	A	F	D	E	D	A	B	F					B

Table B1.5 2021 Base PM Volumes

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	55	69	82	53	134	22	20	146	135	141	212	55	0	0	0	0	1124
Hibberson Street/ Gungahlin Place	126	198	33	0	0	0	23	180	50	10	61	44	0	0	0	0	724
Hibberson Street/ Hinder Street	149	310	138	102	61	10	27	132	66	36	223	26	0	0	0	0	1279
Hibberson Street/ Kate Crace Street	155	512	197	102	100	84	23	234	4	4	211	231	0	0	0	0	1857
Flemington Road/ Manning Clark Crescent/ Hamer Street	5	771	21	3	5	0	36	418	120	105	13	0	0	73	0	0	1568
Flemington Road/ Wizard Street	0	830	151	16	0	12	72	426	0	0	0	0	0	12	0	0	1518
Flemington Road/ De Bortoli Street	0	0	0	0	154	0	35	0	419	0	0	0	0	0	0	0	608
Flemington Road/ Diane Barwick Street	0	0	0	0	0	0	2	0	0	0	37	0	0	0	0	0	39
Flemington Road/ Moonlight Avenue	0	0	0	0	510	56	0	0	33	0	0	0	0	0	0	0	600
Flemington Road/ Mapleton Avenue	58	54	151	159	313	60	36	41	40	64	854	137	9	0	0	0	1977
Flemington Road/ Nullabor Avenue	134	68	89	42	335	26	21	28	19	37	948	292	0	0	19	0	2057
Flemington Road/ Well Station Drive	18	187	32	0	330	170	366	269	22	107	941	191	0	0	0	0	2633

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Centre	0	0	0	0	371	0	0	0	0	0	1247	0	0	0	0	0	1618
Flemington Road/ Lysaght Street	0	0	0	0	280	92	190	0	131	177	1061	0	0	0	0	0	1931
Flemington Road/ Sandford Street/ Morisset Road	0	122	80	76	314	25	45	301	111	191	1118	0	0	0	0	0	2383
Flemington Road/ Randwick Road	0	0	0	0	415	12	8	0	5	25	1305	0	0	0	0	0	1770
Flemington Road/ EPIC	0	0	0	1	420	0	7	0	0	0	1326	1	0	0	0	0	1755
Flemington Road/ Federal Highway	554	0	80	35	388	0	0	0	0	0	1246	716	0	0	0	0	3018
Federal Highway/ Phillip Avenue	150	0	417	167	775	0	0	0	0	0	1545	156	0	0	0	0	3210
Federal Highway/ Barton Highway	0	0	0	0	610	320	223	0	337	1003	1491	0	0	0	0	0	3984
Northbourne Avenue/ Swinden Street	40	0	11	16	965	0	0	0	0	9	2467	73	0	0	0	0	3581
Northbourne Avenue/ Mouat Street/ Antill Street	204	544	532	183	685	156	179	378	243	445	1860	156	0	0	1	0	5566
Northbourne Avenue/ Murdoch Street	0	0	0	0	1097	40	18	0	0	17	2438	0	0	0	0	0	3610
Northbourne Avenue/ Morphett Street	78	0	0	13	1086	0	0	0	0	0	2457	224	0	0	0	0	3857

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	55	413	443	199	852	157	309	326	237	303	1891	63	28	0	6	0	5283
Northbourne Avenue/ Ipima Street/ Condamine Street	105	188	286	135	987	55	21	89	44	89	2062	119	5	0	0	0	4185
Northbourne Avenue/ Masson Street/ Girrahween Street	69	174	311	161	957	30	117	102	41	31	1981	20	3	0	3	0	4000
Northbourne Avenue/ Gould Street/ Elouera Street	150	91	213	35	1053	0	79	67	22	25	1726	54	11	0	32	0	3558
Northbourne Avenue/ Barry Drive/ Cooyong Street	144	740	349	163	860	244	247	524	294	205	1254	175	0	0	0	0	5200
Northbourne Avenue/ Rudd Street/ Bunda Street	159	76	94	39	1228	30	103	93	97	88	1447	114	0	0	9	0	3577
Northbourne Avenue/ Alinga Street	3	26	2	0	1441	42	53	30	77	42	1610	0	0	0	0	0	3326
Northbourne Avenue/ London Circuit	66	140	258	258	1198	67	189	141	412	109	1203	145	0	0	0	0	4185

Table B1.6 2021 Base PM Greentime

PM peak Intersection	Greentime (seconds)												LRV
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	
Hibberson Street/ Gozzard Street	9	9	9	24	24	9	10	10	10	24	24	9	
Hibberson Street/ Gungahlin Place													
Hibberson Street/ Hinder Street													
Hibberson Street/ Kate Crace Street													
Flemington Road/ Manning Clark Crescent/ Hamer Street		44	9		12	9		44	9		12	9	
Flemington Road/ Wizard Street		78	9	9		9		46					
Flemington Road/ De Bortoli Street													
Flemington Road/ Diane Barwick Street													
Flemington Road/ Moonlight Avenue													
Flemington Road/ Mapleton Avenue		10	10		28	9		9	9		44	9	
Flemington Road/ Nullabor Avenue		10	14		22	8		10	14		40	9	
Flemington Road/ Well Station Drive		17	9		31	11		17	9		31	11	

PM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Flemington Road/ Mitchell Resource Centre													
Flemington Road/ Lysaght Street													
Flemington Road/ Sandford Street/ Morisset Road		7	7		16	9		10	10	16	16	9	
Flemington Road/ Randwick Road													
Flemington Road/ EPIC													
Flemington Road/ Federal Highway	96		8		15							83	
Federal Highway/ Phillip Avenue		27	27		73	11	0	0	0	73	73	11	
Federal Highway/ Barton Highway					94	19			22		68		
Northbourne Avenue/ Swinden Street													
Northbourne Avenue/ Mouat Street/ Antill Street		25	25		24	16		19	19		47	16	
Northbourne Avenue/ Murdoch Street	18				35				18				
Northbourne Avenue/ Morphett Street			18							18	35		

PM peak Intersection	Greentime (seconds)												
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue		25	25		46	13		15	15		46	13	
Northbourne Avenue/ Ipima Street/ Condamine Street		24	24		56	10		14	14		56	10	
Northbourne Avenue/ Masson Street/ Girrahween Street	25	25	25		56	9		13	13	56	56	9	
Northbourne Avenue/ Gould Street/ Elouera Street	23	23	23	57	57	10	13	13	13	57	57	10	
Northbourne Avenue/ Barry Drive/ Cooyong Street	30	30	30		39	17		16	16	28	39	17	
Northbourne Avenue/ Rudd Street/ Bunda Street	16	16	20		71	20	16	16	20	71	71	20	
Northbourne Avenue/ Alinga Street	14	14	18	70	70	18	16	16	20	75	75	20	
Northbourne Avenue/ London Circuit		16	20	65	65	20	24	24	28		60	28	

Table B1.7 2021 Base PM Delay

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	35.3	40.2	45.1	19.7	18.2	46.0	38.8	37.1	36.4	20.9	23.5	50.7					30.9
Hibberson Street/ Gungahlin Place	0.4	0.4	1.3				0.8	2.2	2.0	1.2	1.3	2.4					1.2
Hibberson Street/ Hinder Street	1.0	9.6	0.9	1.1	3.6	7.3	1.4	1.5	3.0	1.6	3.3	4.6					3.9
Hibberson Street/ Kate Crace Street	42.2	36.9	41.4	4.9	5.5	5.7	10.3	10.0	21.7	79.9	77.5	79.6					39.2
Flemington Road/ Manning Clark Crescent/ Hamer Street	0.3	11.0	55.7	0.8	39.2		23.0	21.6	54.7	2.4	41.3	40.7		53.6			19.7
Flemington Road/ Wizard Street		1.5	39.2	1.3		38.9	4.5	37.2						35.4			16.0
Flemington Road/ De Bortoli Street					1.0		1.0		1.5								1.3
Flemington Road/ Diane Barwick Street							0.1			0.0							0.0
Flemington Road/ Moonlight Avenue					0.4	1.1			0.5								0.5
Flemington Road/ Mapleton Avenue	1.4	44.9	46.4	3.1	32.4	60.9	1.5	43.7	42.4	0.6	6.2	19.6	36.4				18.1
Flemington Road/ Nullabor Avenue	2.5	43.5	38.4	5.1	39.3	33.7	1.8	39.8	38.8	1.3	8.2	21.5			17.7		18.1
Flemington Road/ Well Station Drive	0.6	37.1	45.9		33.7	56.7	6.2	42.2	35.2	15.9	35.7	55.1					34.0

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					2.0						0.6						0.9
Flemington Road/ Lysaght Street					0.5	12.5	10.8		14.8	5.9	6.9						7.1
Flemington Road/ Sandford Street/ Morisset Road		28.5	26.2	1.8	30.8	51.2	26.6	32.0	36.1	29.8	37.0						33.0
Flemington Road/ Randwick Road					7.0	12.6	0.6		9.5	2.4	0.8						2.4
Flemington Road/ EPIC	13.3			0.2	12.0		11.0				0.5	2.7					3.3
Flemington Road/ Federal Highway	5.9		64.2	2.2	51.8						14.4	24.5					21.2
Federal Highway/ Phillip Avenue	2.3		50.2	3.9	20.8						15.1	64.5					22.3
Federal Highway/ Barton Highway					12.2	61.0	6.1		48.8	7.2	29.8						24.2
Northbourne Avenue/ Swinden Street	1.9		10.5	3.0	7.0					4.1	11.5	3.8					10.0
Northbourne Avenue/ Mouat Street/ Antill Street	3.9	60.2	64.2	3.4	57.4	98.6	22.7	60.0	57.1	15.4	68.1	44.9			70.0		54.6
Northbourne Avenue/ Murdoch Street					14.2	10.6	4.7			0.8	0.5						4.8
Northbourne Avenue/ Morphett Street	1.3			1.1	0.5						17.3	7.7					11.6

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	23.3	57.8	65.8	3.0	46.9	71.5	6.3	61.3	60.8	46.1	52.3	81.7	74.4		83.4		49.8
Northbourne Avenue/ Ipima Street/ Condamine Street	101.6	127.5	127.4	21.4	40.9	55.0	17.0	53.3	49.2	28.7	32.6	85.2	62.4				49.0
Northbourne Avenue/ Masson Street/ Girrahween Street	80.2	81.1	83.9	40.7	59.5	60.4	16.0	56.2	56.7	19.7	14.1	69.9	35.8		93.1		37.8
Northbourne Avenue/ Gould Street/ Elouera Street	409.7	275.1	275.9	5.0	11.9		52.7	50.8	57.7	33.7	16.2	82.6	60.6		50.5		56.9
Northbourne Avenue/ Barry Drive/ Cooyong Street	41.4	40.4	43.9	38.0	51.8	73.7	16.7	60.6	57.2	18.1	22.3	63.5					41.4
Northbourne Avenue/ Rudd Street/ Bunda Street	52.2	55.5	53.8	2.8	13.8	85.9	51.7	57.5	55.7	10.5	14.1	60.2			50.8		22.9
Northbourne Avenue/ Alinga Street	47.4	62.4	86.5		10.2	83.7	60.4	60.0	58.5	5.6	6.1						12.0
Northbourne Avenue/ London Circuit	9.1	52.7	53.5	16.2	6.1	87.1	49.5	49.9	49.8	17.7	29.2	95.8					30.3

Table B1.8 2021 Base PM Level of Service

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	C	C	D	B	B	D	C	C	C	B	B	D					C
Hibberson Street/ Gungahlin Place	A	A	A				A	A	A	A	A	A					A
Hibberson Street/ Hinder Street	A	A	A	A	A	A	A	A	A	A	A	A					A
Hibberson Street/ Kate Crace Street	D	C	C	A	A	A	A	A	B	F	F	F					C
Flemington Road/ Manning Clark Crescent/ Hamer Street	A	A	D	A	C		B	B	D	A	C	C		D			B
Flemington Road/ Wizard Street		A	C	A		C	A	C						C			B
Flemington Road/ De Bortoli Street					A		A		A								A
Flemington Road/ Diane Barwick Street							A				A						A
Flemington Road/ Moonlight Avenue					A	A			A								A
Flemington Road/ Mapleton Avenue	A	D	D	A	C	E	A	D	D	A	A	B	C				B
Flemington Road/ Nullabor Avenue	A	D	C	A	C	C	A	C	C	A	A	B			B		B
Flemington Road/ Well Station Drive	A	C	D		C	E	A	D	C	B	C	D					C

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					A						A						A
Flemington Road/ Lysaght Street					A	A	A		B	A	A						A
Flemington Road/ Sandford Street/ Morisset Road		C	B	A	C	D	B	C	C	C	C						C
Flemington Road/ Randwick Road					A	A	A		A	A	A						A
Flemington Road/ EPIC	A			A	A		A				A	A					A
Flemington Road/ Federal Highway	A		E	A	D						B	B					B
Federal Highway/ Phillip Avenue	A		D	A	B						B	E					B
Federal Highway/ Barton Highway					A	E	A		D	A	C						B
Northbourne Avenue/ Swinden Street	A		A	A	A					A	A	A					A
Northbourne Avenue/ Mouat Street/ Antill Street	A	E	E	A	E	F	B	E	E	B	E	D			F		D
Northbourne Avenue/ Murdoch Street					B	A	A			A	A						A
Northbourne Avenue/ Morphett Street	A			A	A						B	A					A

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	B	E	E	A	D	F	A	E	E	D	D	F	F		F		D
Northbourne Avenue/ Ipima Street/ Condamine Street	F	F	F	B	C	D	B	D	D	C	C	F	E				D
Northbourne Avenue/ Masson Street/ Girrahween Street	F	F	F	C	E	E	B	E	E	B	B	E	C		F		C
Northbourne Avenue/ Gould Street/ Elouera Street	F	F	F	A	A		D	D	E	C	B	F	E		D		E
Northbourne Avenue/ Barry Drive/ Cooyong Street	C	C	D	C	D	F	B	E	E	B	B	E					C
Northbourne Avenue/ Rudd Street/ Bunda Street	D	D	D	A	A	F	D	E	D	A	B	E			D		B
Northbourne Avenue/ Alinga Street	D	E	F		A	F	E	E	E	A	A						A
Northbourne Avenue/ London Circuit	A	D	D	B	A	F	D	D	D	B	C	F					C

B2. 2021 Project VISSIM model outputs

Table B2.1 2021 Project AM Volumes

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	33	79	18	0	216	6	15	65	205	16	87	54	0	0	0	0	794
Hibberson Street/ Gungahlin Place	0	0	0	0	100	10	86	0	33	120	94	0	0	0	0	0	444
Hibberson Street/ Hinder Street	0	0	0	0	211	0	0	0	0	0	222	0	0	0	0	0	433
Hibberson Street/ Kate Crace Street	378	0	128	519	252	0	0	0	0	0	24	171	0	0	0	0	1472
Flemington Road/ Manning Clark Crescent/ Hamer Street	3	458	0	21	5	0	10	571	110	51	2	2	0	27	0	0	1259
Flemington Road/ Wizard Street	0	452	0	106	0	3	23	600	0	0	0	0	0	0	0	0	1184
Flemington Road/ De Bortoli Street	319	0	0	24	690	0	0	0	0	0	0	0	0	0	0	0	1033
Flemington Road/ Diane Barwick Street	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Flemington Road/ Moonlight Avenue	69	0	0	42	963	0	0	0	0	0	0	0	0	0	0	0	1075
Flemington Road/ Mapleton Avenue	124	19	171	233	803	14	16	85	107	0	333	56	5	0	18	0	1983

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Nullabor Avenue	398	72	116	56	960	15	22	155	37	14	265	98	0	0	29	0	2237
Flemington Road/ Well Station Drive	69	146	32	8	1089	386	55	120	30	50	337	104	0	0	0	0	2424
Flemington Road/ Mitchell Resource Centre	0	0	0	0	1199	0	0	0	0	0	496	0	0	0	0	0	1695
Flemington Road/ Lysaght Street	152	0	119	161	1037	0	0	0	0	0	378	233	0	0	0	0	2080
Flemington Road/ Sandford Street/ Morisset Road	0	249	112	359	810	38	73	289	175	197	433	0	2	0	0	0	2736
Flemington Road/ Randwick Road	5	0	1	2	949	49	34	0	4	22	594	2	0	0	0	0	1662
Flemington Road/ EPIC	0	0	0	0	954	0	0	0	0	0	616	0	0	0	0	0	1570
Flemington Road/ Federal Highway	1072	0	81	10	945	0	0	0	0	0	535	304	0	0	0	0	2947
Federal Highway/ Phillip Avenue	124	0	165	576	1438	0	0	0	0	0	671	140	0	0	0	0	3115
Federal Highway/ Barton Highway	0	0	0	0	1153	383	230	0	966	219	590	0	0	0	0	0	3540
Northbourne Avenue/ Swinden Street	52	1	18	18	2126	8	3	1	3	12	795	20	0	0	5	0	3062
Northbourne Avenue/ Mouat Street/ Antill Street	370	406	172	447	1551	144	95	584	563	138	563	151	0	0	51	0	5234
Northbourne Avenue/ Murdoch Street	0	0	0	0	2396	152	88	0	0	13	802	0	1	0	0	0	3452

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Morphett Street	4	0	0	143	2256	0	0	0	0	0	819	231	0	0	1	0	3454
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	65	281	186	588	1610	144	249	586	330	216	678	44	4	0	9	0	4991
Northbourne Avenue/ Ipima Street/ Condamine Street	0	110	112	228	1664	25	23	258	193	40	827	67	47	0	0	0	3594
Northbourne Avenue/ Masson Street/ Girrahween Street	79	101	103	386	1554	81	17	213	111	51	846	41	9	0	0	0	3592
Northbourne Avenue/ Gould Street/ Elouera Street	104	141	47	48	1557	31	29	79	18	58	825	103	33	0	20	0	3092
Northbourne Avenue/ Barry Drive/ Cooyong Street	85	327	154	138	1208	355	103	585	351	154	835	190	0	0	0	0	4485
Northbourne Avenue/ Rudd Street/ Bunda Street	116	97	44	72	1575	0	74	82	17	143	1065	147	0	0	26	0	3458
Northbourne Avenue/ Alinga Street	2	26	2	0	1703	32	14	30	44	76	1379	0	0	0	0	0	3308
Northbourne Avenue/ London Circuit	6	88	109	296	1329	115	144	151	270	141	1202	121	0	0	0	0	3973

Table B2.2 2021 Project AM Greentime

Intersection	Greentime (seconds)												LRV
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	
Hibberson Street/ Gozzard Street	18	18	18	32	32	9	17	17	17	32	32	9	
Hibberson Street/ Gungahlin Place													
Hibberson Street/ Hinder Street					9						9		14
Hibberson Street/ Kate Crace Street	65		20	83	28						28	18	53
Flemington Road/ Manning Clark Crescent/ Hamer Street		57	8		8	8		57	8		8	8	53
Flemington Road/ Wizard Street		72	8	12		12		57					54
Flemington Road/ De Bortoli Street													
Flemington Road/ Diane Barwick Street													
Flemington Road/ Moonlight Avenue													
Flemington Road/ Mapleton Avenue		14	14		39	8		13	13		39	8	35
Flemington Road/ Nullabor Avenue		14	7		33	6		14	7		35	6	21
Flemington Road/ Well Station Drive		19	7		47	9		19	7		33	10	29

Intersection	Greentime (seconds)												
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Flemington Road/ Mitchell Resource Centre	11		6	78	65		7		79	65	65		63
Flemington Road/ Lysaght Street						15	19		9	52	52		45
Flemington Road/ Sandford Street/ Morisset Road		12	12	38	38	6	14	14	14	38	38	6	34
Flemington Road/ Randwick Road	12	12	12	39	39	7		14	14	39	39	7	34
Flemington Road/ EPIC													
Flemington Road/ Federal Highway	63		10		54							19	36
Federal Highway/ Phillip Avenue		14	14		82	10	0	0	0	82	82	10	76
Federal Highway/ Barton Highway					63	24			41		30		29
Northbourne Avenue/ Swinden Street	10	10	6	70	70	6	10	10	6		70	6	60
Northbourne Avenue/ Mouat Street/ Antill Street		13	13		47	13		25	25		47	13	41
Northbourne Avenue/ Murdoch Street	10				46	10			10				46
Northbourne Avenue/ Morphett Street													

Intersection	Greentime (seconds)												LRV
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue		13	13		49	9		25	25		31	8	30
Northbourne Avenue/ Ipima Street/ Condamine Street		16	16		54	8		21	21		54	8	46
Northbourne Avenue/ Masson Street/ Girrahween Street	14	14	14		62	8		15	15	62	62	8	55
Northbourne Avenue/ Gould Street/ Elouera Street	12	12	12	66	66	9	12	12	12	66	66	9	58
Northbourne Avenue/ Barry Drive/ Cooyong Street	15	15	15		51	29		16	16	39	39	16	34
Northbourne Avenue/ Rudd Street/ Bunda Street	10	10	10		67	67	9	9	9	84	84	10	59
Northbourne Avenue/ Alinga Street	14	14	18	69	69	18	16	16	20	74	74	20	
Northbourne Avenue/ London Circuit		13	17	72	72	17	19	19	23		67	23	

Table B2.3 2021 Project AM Delay

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	32.6	32.9	37.7		27.2	54.3	41.0	40.8	40.3	29.0	27.3	44.2					34.4
Hibberson Street/ Gungahlin Place					0.3	0.3	0.7		0.6	0.8	0.2						0.5
Hibberson Street/ Hinder Street					14.1						12.6						13.3
Hibberson Street/ Kate Crace Street	12.8		55.2	6.1	43.2						46.2	69.9					26.5
Flemington Road/ Manning Clark Crescent/ Hamer Street	3.0	14.7		2.1	67.3		17.2	15.8	62.9	56.5	63.1	71.1		64.8			22.4
Flemington Road/ Wizard Street		2.9		42.7		33.0	1.3	22.0									16.2
Flemington Road/ De Bortoli Street	2.3			0.6	0.6												1.1
Flemington Road/ Diane Barwick Street										0.0	0.0						0.0
Flemington Road/ Moonlight Avenue	1.0			0.8	0.5												0.6
Flemington Road/ Mapleton Avenue	49.3	57.2	51.9	29.5	36.0	84.5	55.4	53.3	52.7		20.3	91.4	39.0		107.2		39.4
Flemington Road/ Nullabor Avenue	6.4	43.3	56.3	7.0	16.9	56.0	8.4	43.6	46.1	1.8	23.6	146.9	56.3		161.9		28.4
Flemington Road/ Well Station Drive	5.7	48.7	60.5	4.9	29.6	40.2	1.3	50.9	60.3	9.5	36.2	76.6					35.4

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					15.5						3.0						11.9
Flemington Road/ Lysaght Street	64.2		24.3	56.5	14.4						23.4	18.0					23.9
Flemington Road/ Sandford Street/ Morisset Road		100.0	102.3	25.1	31.8	66.0	50.8	54.2	46.6	42.4	40.5	15.5	54.5				46.4
Flemington Road/ Randwick Road	53.1		51.1	29.6	43.8	104.9	1.3		50.2	20.6	24.2	102.3					37.5
Flemington Road/ EPIC					17.9						0.4						11.0
Flemington Road/ Federal Highway	125.0		174.6	49.5	64.5						7.7	56.0					78.3
Federal Highway/ Phillip Avenue	70.9		59.9	24.3	74.8						22.6	168.1					57.5
Federal Highway/ Barton Highway					230.5	268.4	182.4		266.7	3.1	42.1						195.9
Northbourne Avenue/ Swinden Street	61.6	51.9	68.1	80.1	82.0	148.0	58.3	39.0	65.7	7.0	27.0	71.1			70.5		67.0
Northbourne Avenue/ Mouat Street/ Antill Street	7.8	96.2	67.2	7.6	36.9	89.0	124.9	174.6	155.2	1.8	52.0	102.7			97.1		72.2
Northbourne Avenue/ Murdoch Street					9.9	33.1	1.6			0.8	0.3		28.6				8.4
Northbourne Avenue/ Morphett Street	2.8			0.6	0.3						4.3	46.7			20.2		4.4

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	17.7	88.9	89.3	6.2	34.9	39.3	127.4	183.8	177.0	19.4	50.1	63.6	40.4		82.9		69.7
Northbourne Avenue/ Ipima Street/ Condamine Street		64.6	62.0	19.3	27.1	102.0	7.1	57.4	60.1	26.0	39.5	67.3	107.9				37.8
Northbourne Avenue/ Masson Street/ Girrahween Street	86.5	83.3	83.5	10.0	11.7	81.0	55.6	76.1	71.7	6.0	13.8	56.9	71.2				25.7
Northbourne Avenue/ Gould Street/ Elouera Street	86.2	93.6	99.3	26.8	5.3	53.1	54.2	56.8	60.1	31.3	31.5	74.1	87.2		82.0		27.5
Northbourne Avenue/ Barry Drive/ Cooyong Street	85.3	80.9	58.5	12.3	9.7	68.2	177.5	163.5	151.9	27.9	30.7	76.1					65.1
Northbourne Avenue/ Rudd Street/ Bunda Street	71.5	86.0	85.6	7.0	13.9		72.5	68.2	71.8	3.2	3.3	171.9			152.4		25.5
Northbourne Avenue/ Alinga Street	16.9	60.8	88.3		5.0	57.0	58.7	54.3	54.8	4.0	7.2						8.2
Northbourne Avenue/ London Circuit	3.2	55.8	62.4	9.0	4.5	80.3	54.1	52.7	53.4	13.9	21.6	81.0					24.6

Table B2.4 2021 Project AM Level of Service

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	C	C	C		B	D	C	C	C	C	B	D					C
Hibberson Street/ Gungahlin Place					A	A	A		A	A	A						A
Hibberson Street/ Hinder Street					B						A						A
Hibberson Street/ Kate Crace Street	A		D	A	D						D	E					B
Flemington Road/ Manning Clark Crescent/ Hamer Street	A	B		A	E		B	B	E	E	E	F		E			B
Flemington Road/ Wizard Street		A		D		C	A	B									B
Flemington Road/ De Bortoli Street	A			A	A												A
Flemington Road/ Diane Barwick Street										A	A						A
Flemington Road/ Moonlight Avenue	A			A	A												A
Flemington Road/ Mapleton Avenue	D	E	D	C	C	F	D	D	D		B	F	C		F		C
Flemington Road/ Nullabor Avenue	A	D	E	A	B	E	A	D	D	A	B	F	E		F		C
Flemington Road/ Well Station Drive	A	D	E	A	C	C	A	D	E	A	C	F					C

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					B						A						A
Flemington Road/ Lysaght Street	E		B	E	B						B	B					B
Flemington Road/ Sandford Street/ Morisset Road		F	F	B	C	E	D	D	D	D	C	B	D				D
Flemington Road/ Randwick Road	D		D	C	D	F	A		D	B	B	F					C
Flemington Road/ EPIC					B						A						A
Flemington Road/ Federal Highway	F		F	D	E						A	E					F
Federal Highway/ Phillip Avenue	F		E	B	F						B	F					E
Federal Highway/ Barton Highway					F	F	F		F	A	D						F
Northbourne Avenue/ Swinden Street	E	D	E	F	F	F	E	C	E	A	B	F				F	E
Northbourne Avenue/ Mouat Street/ Antill Street	A	F	E	A	C	F	F	F	F	A	D	F				F	F
Northbourne Avenue/ Murdoch Street					A	C	A			A	A		C				A
Northbourne Avenue/ Morphett Street	A			A	A						A	D				B	A

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	B	F	F	A	C	C	F	F	F	B	D	E	C		F		E
Northbourne Avenue/ Ipima Street/ Condamine Street		E	E	B	B	F	A	E	E	B	C	E	F				C
Northbourne Avenue/ Masson Street/ Girrahween Street	F	F	F	A	A	F	D	F	F	A	A	E	F				B
Northbourne Avenue/ Gould Street/ Elouera Street	F	F	F	B	A	D	D	E	E	C	C	F	F		F		B
Northbourne Avenue/ Barry Drive/ Cooyong Street	F	F	E	A	A	E	F	F	F	B	C	F					E
Northbourne Avenue/ Rudd Street/ Bunda Street	F	F	F	A	A		F	E	F	A	A	F			F		B
Northbourne Avenue/ Alinga Street	B	E	F		A	E	E	D	D	A	A						A
Northbourne Avenue/ London Circuit	A	D	E	A	A	F	D	D	D	A	B	F					B

Table B2.5 2021 Project PM Volumes

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	50	60	76	18	150	26	29	95	133	107	219	80	0	0	0	0	1041
Hibberson Street/ Gungahlin Place	0	0	0	0	53	79	145	0	48	109	245	0	0	0	0	0	678
Hibberson Street/ Hinder Street	0	0	0	0	133	0	0	0	0	0	467	0	0	0	0	0	601
Hibberson Street/ Kate Crace Street	356	0	273	280	169	0	0	0	0	0	49	309	0	0	0	0	1436
Flemington Road/ Manning Clark Crescent/ Hamer Street	6	520	0	7	4	10	47	441	98	99	14	0	0	79	0	0	1325
Flemington Road/ Wizard Street	0	591	0	21	0	7	77	451	0	0	0	0	0	0	0	0	1147
Flemington Road/ De Bortoli Street	148	0	0	36	446	0	0	0	0	0	0	0	0	0	0	0	630
Flemington Road/ Diane Barwick Street	0	0	0	0	0	0	3	0	0	0	35	0	0	0	0	0	38
Flemington Road/ Moonlight Avenue	35	0	0	56	531	0	0	0	0	0	0	0	0	0	0	0	622
Flemington Road/ Mapleton Avenue	79	60	118	177	322	57	27	39	41	0	617	125	6	0	0	0	1667
Flemington Road/ Nullabor Avenue	135	78	78	52	353	23	13	34	21	25	690	275	0	0	21	0	1797
Flemington Road/ Well Station Drive	21	189	34	0	369	149	387	292	27	65	628	133	0	0	0	0	2294

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Centre	0	0	0	0	417	0	0	0	0	0	834	0	0	0	0	0	1252
Flemington Road/ Lysaght Street	129	0	152	86	334	0	0	0	0	0	685	119	0	0	0	0	1504
Flemington Road/ Sandford Street/ Morisset Road	0	154	71	76	360	28	31	316	94	183	700	0	0	0	0	0	2014
Flemington Road/ Randwick Road	3	0	5	1	446	13	8	0	4	20	872	1	0	0	0	0	1372
Flemington Road/ EPIC	0	0	0	0	450	0	0	0	0	0	886	0	0	0	0	0	1335
Flemington Road/ Federal Highway	531	0	61	36	420	0	0	0	0	0	829	702	0	0	0	0	2578
Federal Highway/ Phillip Avenue	160	0	320	173	781	0	0	0	0	0	1227	129	0	0	0	0	2790
Federal Highway/ Barton Highway	0	0	0	0	614	321	229	0	351	890	0	0	0	0	0	0	2406
Northbourne Avenue/ Swinden Street	37	1	12	17	962	5	29	2	22	7	1988	78	0	0	17	0	3177
Northbourne Avenue/ Mouat Street/ Antill Street	189	498	467	190	684	142	183	376	231	384	1455	141	0	0	43	0	4985
Northbourne Avenue/ Murdoch Street	0	0	0	0	1115	35	15	0	0	17	2073	0	12	0	0	0	3267
Northbourne Avenue/ Morphett Street	112	0	0	57	1063	0	0	0	0	0	2120	180	0	0	3	0	3534
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	52	373	368	194	881	118	288	334	237	376	1786	67	29	0	7	0	5109

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Ipima Street/ Condamine Street	0	208	295	135	979	46	20	87	45	101	1964	110	53	0	0	0	4044
Northbourne Avenue/ Masson Street/ Girrahween Street	69	174	313	158	956	33	119	98	43	29	1903	20	10	0	2	0	3928
Northbourne Avenue/ Gould Street/ Elouera Street	156	120	271	36	1037	0	80	64	22	25	1590	52	8	0	30	0	3491
Northbourne Avenue/ Barry Drive/ Cooyong Street	123	669	296	139	853	279	217	486	281	205	1195	180	0	0	0	0	4922
Northbourne Avenue/ Rudd Street/ Bunda Street	169	80	85	41	1226	0	110	95	103	90	1395	113	0	0	9	0	3516
Northbourne Avenue/ Alinga Street	2	26	2	0	1444	53	57	30	77	52	1570	0	0	0	0	0	3312
Northbourne Avenue/ London Circuit	65	140	252	260	1196	61	178	145	407	113	1195	153	0	0	0	0	4165

Table B2.6 2021 Project PM Greentime

PM peak Intersection	Greentime (seconds)												LRV
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	
Hibberson Street/ Gozzard Street	18	18	18	31	31	9	17	17	17	31	31	9	
Hibberson Street/ Gungahlin Place													
Hibberson Street/ Hinder Street					11						11		15
Hibberson Street/ Kate Crace Street	68		29	78	25						25	21	24
Flemington Road/ Manning Clark Crescent/ Hamer Street		52	8		8	7		52	8		8	7	51
Flemington Road/ Wizard Street		69	9	11		11		40					32
Flemington Road/ De Bortoli Street													
Flemington Road/ Diane Barwick Street													
Flemington Road/ Moonlight Avenue													
Flemington Road/ Mapleton Avenue		14	14		23	8		13	13		38	8	23
Flemington Road/ Nullabor Avenue		14	7		28	6		14	7		40	14	16
Flemington Road/ Well Station Drive		22	8		23	9		22	8		23	9	22

PM peak Intersection	Greentime (seconds)												
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Flemington Road/ Mitchell Resource Centre	12		6	78	66		7		79	66	66		63
Flemington Road/ Lysaght Street						15	20		8	54	54		49
Flemington Road/ Sandford Street/ Morisset Road		9	9	38	38	8	15	15	15	38	38	8	35
Flemington Road/ Randwick Road	12	12	12	40	40	8		14	14	40	40	8	36
Flemington Road/ EPIC													
Flemington Road/ Federal Highway	81		6		28							26	26
Federal Highway/ Phillip Avenue		21	21		73	10	0	0	0	73	73	10	63
Federal Highway/ Barton Highway					88	20			23		60		56
Northbourne Avenue/ Swinden Street	11	11	6	67	67	7	11	11	6		67	7	57
Northbourne Avenue/ Mouat Street/ Antill Street		26	26		21	16		18	18		43	16	19
Northbourne Avenue/ Murdoch Street	10				46	10			10				46
Northbourne Avenue/ Morphett Street													
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue		19	19		55	10		13	13		55	10	49

PM peak Intersection	Greentime (seconds)												
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Northbourne Avenue/ Ipima Street/ Condamine Street		24	24		52	8		15	15		52	8	45
Northbourne Avenue/ Masson Street/ Girrahween Street	25	25	25		51	8		14	14	51	51	8	43
Northbourne Avenue/ Gould Street/ Elouera Street	28	28	28	50	50	8	12	12	12	50	50	8	44
Northbourne Avenue/ Barry Drive/ Cooyong Street	25	25	25		42	18		14	14	42	42	18	35
Northbourne Avenue/ Rudd Street/ Bunda Street	11	11	11		31	31	10	10	10	54	54	12	29
Northbourne Avenue/ Alinga Street	14	14	18	68	68	18	18	18	22	73	73	22	
Northbourne Avenue/ London Circuit		16	20	65	65	20	23	23	27		60	27	

Table B2.7 2021 Project PM Delay

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	33.4	40.5	47.9	25.7	25.1	44.2	40.3	36.4	38.6	31.0	36.2	61.6					37.5
Hibberson Street/ Gungahlin Place					0.5	0.5	2.1		1.0	1.3	0.4						1.0
Hibberson Street/ Hinder Street					13.2						19.4						18.0
Hibberson Street/ Kate Crace Street	12.5		37.2	6.2	36.3						124.6	68.5					34.7
Flemington Road/ Manning Clark Crescent/ Hamer Street	0.6	9.9		1.4	52.1	64.4	13.6	13.7	54.7	60.8	59.1	2.8		55.9			22.1
Flemington Road/ Wizard Street		5.2		42.6		38.8	5.3	42.6									20.8
Flemington Road/ De Bortoli Street	1.0			1.1	0.9												0.9
Flemington Road/ Diane Barwick Street							0.0				0.0						0.0
Flemington Road/ Moonlight Avenue	0.3			1.2	0.6												0.6
Flemington Road/ Mapleton Avenue	47.1	49.3	45.4	25.6	32.2	77.0	51.1	49.9	48.9		19.0	28.9	79.7				31.5
Flemington Road/ Nullabor Avenue	1.7	41.6	51.1	4.2	23.4	58.8	1.4	37.7	48.2	1.3	14.9	72.1			62.7		28.4
Flemington Road/ Well Station Drive	1.1	35.1	44.2		27.3	59.9	7.4	45.0	44.0	9.9	29.1	78.8					32.2

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					1.2						2.4						2.0
Flemington Road/ Lysaght Street	62.3		26.1	22.9	3.0						8.2	8.4					14.4
Flemington Road/ Sandford Street/ Morisset Road	2.2	60.4	55.4	9.7	15.7	66.8	39.8	50.4	42.2	23.3	21.1		34.7				30.6
Flemington Road/ Randwick Road	49.9		35.6	1.9	18.4	95.1	2.6		40.5	29.0	26.5	51.0					24.5
Flemington Road/ EPIC					3.3						0.3						1.3
Flemington Road/ Federal Highway	10.9		91.3	12.1	40.1						12.1	42.8					26.6
Federal Highway/ Phillip Avenue	4.0		58.3	2.4	20.1						28.9	98.0					29.9
Federal Highway/ Barton Highway					12.0	77.5	4.9		45.1	9.7							24.1
Northbourne Avenue/ Swinden Street	56.6	66.1	53.0	25.6	31.0	86.5	53.9	42.6	69.7	63.3	77.6	170.6			975.2		69.5
Northbourne Avenue/ Mouat Street/ Antill Street	53.4	158.5	231.0	4.3	53.1	89.1	56.8	73.7	65.6	92.6	251.0	171.7			173.5		147.0
Northbourne Avenue/ Murdoch Street					7.6	26.0	164.5			19.8	32.5		51.0				24.5
Northbourne Avenue/ Morphett Street	1.6			0.6	0.4						122.8	99.2			118.6		78.9
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	178.0	254.4	261.9	1.4	27.4	123.7	32.5	104.5	99.4	19.3	33.2	92.7	119.4		84.7		75.2

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Ipima Street/ Condamine Street		107.1	106.6	15.4	35.3	110.2	0.9	55.4	59.8	23.4	33.9	141.6	106.9				47.8
Northbourne Avenue/ Masson Street/ Girrahween Street	81.9	82.2	79.7	31.6	51.2	74.4	46.4	71.1	65.5	19.7	20.1	83.7	63.8		92.1		40.2
Northbourne Avenue/ Gould Street/ Elouera Street	330.8	195.6	197.4	18.7	20.3		59.8	57.9	59.4	32.6	25.6	103.7	74.0		56.3		60.0
Northbourne Avenue/ Barry Drive/ Cooyong Street	69.2	63.9	60.8	65.8	61.6	94.5	254.1	184.9	156.4	33.6	33.6	64.4					82.2
Northbourne Avenue/ Rudd Street/ Bunda Street	75.7	76.4	76.5	40.5	34.1		57.9	59.5	63.5	14.1	15.2	34.7			36.9		32.5
Northbourne Avenue/ Alinga Street	36.7	62.3	76.6		17.8	84.4	56.7	59.2	56.0	5.9	7.2						15.9
Northbourne Avenue/ London Circuit	11.1	53.8	60.9	12.1	3.4	84.5	49.5	51.2	50.4	19.4	27.7	94.7					29.4

Table B2.8 2021 Project PM Level of Service

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	C	C	D	B	B	D	C	C	C	C	C	E					C
Hibberson Street/ Gungahlin Place					A	A	A		A	A	A						A
Hibberson Street/ Hinder Street					A						B						B
Hibberson Street/ Kate Crace Street	A		C	A	C						F	E					C
Flemington Road/ Manning Clark Crescent/ Hamer Street	A	A		A	D	E	A	A	D	E	E	A		D			B
Flemington Road/ Wizard Street		A		D		C	A	D									B
Flemington Road/ De Bortoli Street	A			A	A												A
Flemington Road/ Diane Barwick Street							A				A						A
Flemington Road/ Moonlight Avenue	A			A	A												A
Flemington Road/ Mapleton Avenue	D	D	D	B	C	F	D	D	D		B	C	F				C
Flemington Road/ Nullabor Avenue	A	C	D	A	B	E	A	C	D	A	B	F			E		C
Flemington Road/ Well Station Drive	A	C	D		B	E	A	D	D	A	C	F					C

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					A						A						A
Flemington Road/ Lysaght Street	E		B	B	A						A	A					B
Flemington Road/ Sandford Street/ Morisset Road	A	E	D	A	B	E	C	D	D	B	B		C				C
Flemington Road/ Randwick Road	D		C	A	B	F	A		C	C	B	D					B
Flemington Road/ EPIC					A						A						A
Flemington Road/ Federal Highway	A		F	A	C						A	D					B
Federal Highway/ Phillip Avenue	A		E	A	B						C	F					C
Federal Highway/ Barton Highway					A	F	A		D	A							B
Northbourne Avenue/ Swinden Street	E	E	D	B	C	F	D	D	E	E	F	F			F		E
Northbourne Avenue/ Mouat Street/ Antill Street	D	F	F	A	D	F	E	F	E	F	F	F			F		F
Northbourne Avenue/ Murdoch Street					A	B	F			B	C		D				B
Northbourne Avenue/ Morphett Street	A			A	A						F	F			F		F
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	F	F	F	A	B	F	C	F	F	B	C	F	F		F		F

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Ipima Street/ Condamine Street		F	F	B	C	F	A	D	E	B	C	F	F				D
Northbourne Avenue/ Masson Street/ Girrahween Street	F	F	F	C	D	F	D	F	E	B	B	F	E		F		C
Northbourne Avenue/ Gould Street/ Elouera Street	F	F	F	B	B		E	E	E	C	B	F	F		E		E
Northbourne Avenue/ Barry Drive/ Cooyong Street	E	E	E	E	E	F	F	F	F	C	C	E					F
Northbourne Avenue/ Rudd Street/ Bunda Street	F	F	F	C	C		E	E	E	B	B	C			C		C
Northbourne Avenue/ Alinga Street	C	E	F		B	F	E	E	E	A	A						B
Northbourne Avenue/ London Circuit	A	D	E	A	A	F	D	D	D	B	B	F					C

B3. 2031 Base VISSIM model outputs

Table B3.1 2031 Base AM Volumes

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	169	96	21	16	215	3	6	54	226	27	92	101	0	0	0	0	1025
Hibberson Street/ Gungahlin Place	26	178	0	21	32	103	6	163	4	15	55	64	0	0	0	0	667
Hibberson Street/ Hinder Street	29	193	110	119	188	7	40	168	40	2	59	42	0	0	0	0	999
Hibberson Street/ Kate Crace Street	137	281	209	631	202	48	52	275	5	5	85	124	0	0	0	0	2053
Flemington Road/ Manning Clark Crescent/ Hamer Street	2	585	48	39	16	2	7	946	82	45	2	1	0	71	0	0	1847
Flemington Road/ Wizard Street	0	628	104	141	0	2	67	989	0	0	0	0	0	6	0	0	1937
Flemington Road/ De Bortoli Street	0	0	0	0	203	0	35	0	1090	0	0	0	0	0	0	0	1328
Flemington Road/ Diane Barwick Street	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	3
Flemington Road/ Moonlight Avenue	0	0	0	0	1225	34	0	0	31	0	0	0	0	0	0	0	1290
Flemington Road/ Mapleton Avenue	158	67	191	270	931	36	27	118	147	43	529	64	3	0	28	0	2614

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Nullabor Avenue	319	113	161	122	1058	25	27	155	40	24	475	108	2	0	24	0	2653
Flemington Road/ Well Station Drive	78	255	110	0	1205	251	99	338	46	34	440	117	0	0	0	0	2972
Flemington Road/ Mitchell Resource Centre	0	0	0	0	1330	0	0	0	0	0	594	0	0	0	0	0	1924
Flemington Road/ Lysaght Street	0	0	0	0	1153	177	159	0	145	224	435	0	0	0	0	0	2293
Flemington Road/ Sandford Street/ Morisset Road	1	259	107	372	877	46	65	221	220	215	508	1	1	0	0	0	2892
Flemington Road/ Randwick Road	0	0	0	0	983	116	14	0	1	46	702	0	0	0	0	0	1863
Flemington Road/ EPIC	0	0	0	1	988	0	0	0	0	3	761	1	0	0	0	0	1753
Flemington Road/ Federal Highway	1181	0	113	11	977	0	0	0	0	0	652	467	0	0	0	0	3402
Federal Highway/ Phillip Avenue	144	0	212	495	1682	0	0	0	0	0	908	119	0	0	0	0	3559
Federal Highway/ Barton Highway	0	0	0	0	1435	381	270	0	1103	198	757	0	0	0	0	0	4144
Northbourne Avenue/ Swinden Street	53	0	21	526	2011	0	0	0	0	9	954	25	0	0	0	0	3599
Northbourne Avenue/ Mouat Street/ Antill Street	450	406	195	118	1765	148	111	649	555	148	655	178	0	0	7	0	5386
Northbourne Avenue/ Murdoch Street	0	0	0	0	2594	211	103	0	0	12	884	0	0	0	0	0	3805

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Morphett Street	0	0	0	60	2542	0	0	0	0	0	897	183	0	0	0	0	3682
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	69	306	182	635	1837	152	211	618	335	234	716	48	8	0	7	0	5358
Northbourne Avenue/ Ipima Street/ Condamine Street	139	115	97	262	1841	28	21	263	192	41	877	85	58	0	0	0	4018
Northbourne Avenue/ Masson Street/ Girrahween Street	65	59	100	431	1681	86	15	206	119	37	944	47	16	0	0	0	3808
Northbourne Avenue/ Gould Street/ Elouera Street	99	96	43	63	1682	24	37	110	28	84	914	108	25	0	22	0	3336
Northbourne Avenue/ Barry Drive/ Cooyong Street	101	370	203	163	1349	332	117	563	387	172	883	187	0	0	0	0	4826
Northbourne Avenue/ Rudd Street/ Bunda Street	117	76	44	58	1743	48	95	99	13	127	1097	149	0	0	34	0	3699
Northbourne Avenue/ Alinga Street	2	25	2	0	1865	45	14	30	50	95	1392	0	0	0	0	0	3521
Northbourne Avenue/ London Circuit	7	87	129	311	1490	101	140	150	285	123	1211	125	0	0	0	0	4161

Table B3.2 2031 Base AM Greentime

AM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Hibberson Street/ Gozzard Street	14	14	14	42	42	9	11	11	11	42	42	9	
Hibberson Street/ Gungahlin Place													
Hibberson Street/ Hinder Street													
Hibberson Street/ Kate Crace Street													
Flemington Road/ Manning Clark Crescent/ Hamer Street		43	9		12	9		43	9		12	9	
Flemington Road/ Wizard Street		77	6	9		9		64					
Flemington Road/ De Bortoli Street													
Flemington Road/ Diane Barwick Street													
Flemington Road/ Moonlight Avenue													
Flemington Road/ Mapleton Avenue		11	11		41	9		12	12		41	9	
Flemington Road/ Nullabor Avenue		11	15		32	7		11	15		16	8	
Flemington Road/ Well Station Drive		23	8		46	9		23	8		32	11	

AM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Flemington Road/ Mitchell Resource Centre													
Flemington Road/ Lysaght Street													
Flemington Road/ Sandford Street/ Morisset Road		10	10		27	5		11	11	27	27	5	
Flemington Road/ Randwick Road													
Flemington Road/ EPIC													
Flemington Road/ Federal Highway	59		9		54							44	
Federal Highway/ Phillip Avenue		25	25		76	10	0	0	0	76	76	10	
Federal Highway/ Barton Highway					58	24			35		33		
Northbourne Avenue/ Swinden Street													
Northbourne Avenue/ Mouat Street/ Antill Street		17	17		43	16		29	29		43	16	
Northbourne Avenue/ Murdoch Street	18				35				18				
Northbourne Avenue/ Morphett Street			18							18	35		

AM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue		17	17		51	12		24	24		28	7	
Northbourne Avenue/ Ipima Street/ Condamine Street		17	17		58	10		19	19		58	10	
Northbourne Avenue/ Masson Street/ Girrahween Street	13	13	13		64	10		16	16	64	64	10	
Northbourne Avenue/ Gould Street/ Elouera Street	13	13	13	65	65	11	13	13	13	65	65	11	
Northbourne Avenue/ Barry Drive/ Cooyong Street	19	19	19		42	19		21	21	32	42	19	
Northbourne Avenue/ Rudd Street/ Bunda Street	13	13	17		76	17	14	14	18	76	76	18	
Northbourne Avenue/ Alinga Street	14	14	18	72	72	18	13	13	17	77	77	17	
Northbourne Avenue/ London Circuit		13	17	71	71	17	19	19	23		66	23	

Table B3.3 2031 Base AM Delay

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	50.9	46.6	70.1	24.7	20.6	52.7	63.9	63.6	63.8	19.0	20.3	45.0					43.6
Hibberson Street/ Gungahlin Place	0.4	0.3		1.1	1.0	2.5	0.3	2.0	0.7	1.3	1.4	2.1					1.4
Hibberson Street/ Hinder Street	1.0	8.8	0.7	2.0	3.5	2.9	1.2	0.9	1.5	1.8	2.3	4.9					3.3
Hibberson Street/ Kate Crace Street	23.4	22.9	23.6	35.5	33.9	35.2	9.7	9.9	23.4	12.3	8.0	7.4					24.6
Flemington Road/ Manning Clark Crescent/ Hamer Street	0.3	5.0	57.1	1.0	44.7	44.2	13.5	22.6	52.2	1.3	36.7	33.4		50.9			19.5
Flemington Road/ Wizard Street		9.4	53.1	12.6		42.7	9.2	24.6						51.5			19.9
Flemington Road/ De Bortoli Street					487.3		29.9		55.0								120.4
Flemington Road/ Diane Barwick Street										0.0	0.0						0.0
Flemington Road/ Moonlight Avenue					69.4	46.2			93.6								69.4
Flemington Road/ Mapleton Avenue	49.6	50.8	54.6	110.1	144.7	66.9	5.3	52.1	73.4	1.6	11.9	62.3	63.1		67.0		83.4
Flemington Road/ Nullabor Avenue	28.8	65.8	53.6	23.8	55.7	19.2	8.1	48.6	53.5	6.6	38.4	57.9	28.9		59.5		46.6
Flemington Road/ Well Station Drive	27.9	44.1	60.2		70.6	32.9	6.2	49.8	71.2	4.7	35.7	58.5					52.8

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					13.4						0.4						9.4
Flemington Road/ Lysaght Street					0.4	3.1	3.1		5.4	2.3	2.9						1.8
Flemington Road/ Sandford Street/ Morisset Road	10.8	36.1	34.9	3.7	36.2	47.0	34.4	40.7	46.5	21.0	20.7	29.7	78.3				29.4
Flemington Road/ Randwick Road					9.0	11.0	0.4		3.8	3.4	1.1						5.9
Flemington Road/ EPIC				6.3	11.8		27.0			0.5	0.5	1.5					6.9
Flemington Road/ Federal Highway	29.6		82.2	7.3	28.4						10.7	30.7					27.5
Federal Highway/ Phillip Avenue	1.1		45.1	5.8	14.9						36.1	70.6					22.2
Federal Highway/ Barton Highway					40.4	131.4	14.1		49.9	2.1	33.1						46.5
Northbourne Avenue/ Swinden Street	43.8		30.8	9.9	22.0					0.9	0.9	2.3					14.8
Northbourne Avenue/ Mouat Street/ Antill Street	11.2	59.5	55.6	24.2	92.1	153.4	34.2	58.9	60.1	4.7	50.4	110.3			97.4		66.4
Northbourne Avenue/ Murdoch Street					24.1	12.6	1.1			0.7	0.3						17.3
Northbourne Avenue/ Morphett Street				1.0	0.4						3.9	11.8					1.9

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	14.0	57.3	56.7	17.4	44.2	40.0	172.6	225.4	215.4	20.0	61.2	52.2	41.2		84.6		79.7
Northbourne Avenue/ Ipima Street/ Condamine Street	21.0	62.3	58.8	24.7	27.9	76.7	93.3	119.8	117.8	21.0	34.4	42.8	71.5				42.4
Northbourne Avenue/ Masson Street/ Girrahween Street	60.4	61.1	55.3	12.0	13.3	64.0	30.6	60.9	61.1	3.5	8.3	59.9	52.6				20.5
Northbourne Avenue/ Gould Street/ Elouera Street	54.3	55.6	57.2	26.8	4.2	40.9	54.6	58.8	58.9	45.9	43.5	44.0	88.6		66.8		25.5
Northbourne Avenue/ Barry Drive/ Cooyong Street	53.4	53.5	53.0	26.1	32.2	128.1	14.9	52.8	52.9	16.1	24.0	69.3					44.5
Northbourne Avenue/ Rudd Street/ Bunda Street	53.3	57.8	60.0	2.6	10.7	86.9	50.8	62.0	58.0	7.1	10.3	176.0			158.5		24.8
Northbourne Avenue/ Alinga Street	18.5	60.7	88.0		7.1	59.7	50.0	56.0	59.4	2.8	5.2						8.7
Northbourne Avenue/ London Circuit	3.8	56.1	57.0	13.5	6.9	84.6	53.0	51.0	52.4	13.6	23.5	85.2					25.5

Table B3.4 2031 Base AM Level of Service

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	D	D	F	B	B	D	E	E	E	B	B	D					D
Hibberson Street/ Gungahlin Place	A	A		A	A	A	A	A	A	A	A	A					A
Hibberson Street/ Hinder Street	A	A	A	A	A	A	A	A	A	A	A	A					A
Hibberson Street/ Kate Crace Street	B	B	B	C	C	C	A	A	B	A	A	A					B
Flemington Road/ Manning Clark Crescent/ Hamer Street	A	A	E	A	D	D	A	B	D	A	C	C		D			B
Flemington Road/ Wizard Street		A	D	A		D	A	B						D			B
Flemington Road/ De Bortoli Street					F		C		D								F
Flemington Road/ Diane Barwick Street										A	A						A
Flemington Road/ Moonlight Avenue					E	D			F								E
Flemington Road/ Mapleton Avenue	D	D	D	F	F	E	A	D	F	A	A	E	E		E		F
Flemington Road/ Nullabor Avenue	C	E	D	B	D	B	A	D	D	A	C	E	C		E		D
Flemington Road/ Well Station Drive	B	D	E		F	C	A	D	F	A	C	E					D

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					A						A						A
Flemington Road/ Lysaght Street					A	A	A		A	A	A						A
Flemington Road/ Sandford Street/ Morisset Road	A	C	C	A	C	D	C	C	D	B	B	C	F				C
Flemington Road/ Randwick Road					A	A	A		A	A	A						A
Flemington Road/ EPIC				A	A		B			A	A	A					A
Flemington Road/ Federal Highway	C		F	A	C						A	C					B
Federal Highway/ Phillip Avenue	A		D	A	B						C	F					B
Federal Highway/ Barton Highway					C	F	B		D	A	C						D
Northbourne Avenue/ Swinden Street	D		C	A	B					A	A	A					B
Northbourne Avenue/ Mouat Street/ Antill Street	A	E	D	B	F	F	C	E	E	A	D	F			F		E
Northbourne Avenue/ Murdoch Street					B	A	A			A	A						B
Northbourne Avenue/ Morphett Street				A	A						A	A					A

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	A	E	E	B	D	C	F	F	F	B	E	D	C		F		F
Northbourne Avenue/ Ipima Street/ Condamine Street	B	E	E	B	B	F	F	F	F	B	C	D	F				D
Northbourne Avenue/ Masson Street/ Girrahween Street	E	E	D	A	A	E	C	E	E	A	A	E	D				B
Northbourne Avenue/ Gould Street/ Elouera Street	D	D	E	B	A	C	D	E	E	D	D	D	F		E		B
Northbourne Avenue/ Barry Drive/ Cooyong Street	D	D	D	B	C	F	B	D	D	B	B	E					D
Northbourne Avenue/ Rudd Street/ Bunda Street	D	E	E	A	A	F	D	E	E	A	A	F			F		B
Northbourne Avenue/ Alinga Street	B	E	F		A	E	D	D	E	A	A						A
Northbourne Avenue/ London Circuit	A	E	E	A	A	F	D	D	D	A	B	F					B

Table B3.5 2031 Base PM Volumes

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	100	72	68	39	156	9	10	125	183	154	223	172	0	0	0	0	1312
Hibberson Street/ Gungahlin Place	99	220	97	24	4	14	107	186	41	7	16	52	0	0	0	0	867
Hibberson Street/ Hinder Street	125	389	162	116	55	13	63	147	52	12	182	29	0	0	0	0	1347
Hibberson Street/ Kate Crace Street	143	523	258	95	110	149	37	252	5	4	179	134	0	0	0	0	1889
Flemington Road/ Manning Clark Crescent/ Hamer Street	9	853	51	7	6	0	16	400	66	96	15	0	0	73	0	0	1590
Flemington Road/ Wizard Street	0	995	161	40	0	38	72	413	0	0	0	0	0	16	0	0	1736
Flemington Road/ De Bortoli Street	0	0	0	0	210	0	37	0	433	0	0	0	0	0	0	0	679
Flemington Road/ Diane Barwick Street	0	0	0	0	0	0	5	0	0	0	31	0	0	0	0	0	36
Flemington Road/ Moonlight Avenue	0	0	0	0	585	52	0	0	20	0	0	0	0	0	0	0	657
Flemington Road/ Mapleton Avenue	50	58	179	141	373	76	44	60	36	75	1128	201	9	0	0	0	2430
Flemington Road/ Nullabor Avenue	143	100	126	41	383	28	34	34	22	39	1248	296	0	0	21	0	2514
Flemington Road/ Well Station Drive	81	416	68	0	387	158	498	327	25	79	1083	212	0	0	0	0	3332

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Centre	0	0	0	0	492	0	0	0	0	0	1384	0	0	0	0	0	1876
Flemington Road/ Lysaght Street	0	0	0	0	376	117	211	0	137	122	1178	0	0	0	0	0	2141
Flemington Road/ Sandford Street/ Morisset Road	1	139	76	79	409	26	52	366	117	177	1174	0	0	0	0	0	2616
Flemington Road/ Randwick Road	0	0	0	0	516	13	12	0	7	24	1365	0	0	0	0	0	1938
Flemington Road/ EPIC	1	0	0	1	522	0	4	0	0	0	1385	2	0	0	0	0	1914
Flemington Road/ Federal Highway	616	0	83	36	489	0	0	0	0	0	1305	715	0	0	0	0	3245
Federal Highway/ Phillip Avenue	123	0	380	214	890	0	0	0	0	0	1648	163	0	0	0	0	3419
Federal Highway/ Barton Highway	0	0	0	0	715	303	204	0	314	967	1631	0	0	0	0	0	4133
Northbourne Avenue/ Swinden Street	41	0	14	13	1046	0	0	0	0	9	2572	60	0	0	0	0	3755
Northbourne Avenue/ Mouat Street/ Antill Street	243	546	603	216	731	157	184	444	266	388	1880	190	0	0	4	0	5851
Northbourne Avenue/ Murdoch Street	0	0	0	0	1195	58	37	0	0	21	2409	0	0	0	0	0	3721
Northbourne Avenue/ Morphett Street	91	0	0	15	1183	0	0	0	0	0	2431	172	0	0	0	0	3892

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	47	377	368	208	919	178	321	351	234	318	1870	67	30	0	7	0	5296
Northbourne Avenue/ Ipima Street/ Condamine Street	116	191	269	145	1034	59	21	87	46	88	2079	125	5	0	0	0	4265
Northbourne Avenue/ Masson Street/ Girrahween Street	65	184	304	165	1017	33	136	98	38	35	2009	20	4	0	2	0	4111
Northbourne Avenue/ Gould Street/ Elouera Street	157	139	175	33	1118	0	75	52	25	28	1797	34	14	0	30	0	3678
Northbourne Avenue/ Barry Drive/ Cooyong Street	138	703	356	179	899	262	246	516	278	201	1296	176	0	0	0	0	5250
Northbourne Avenue/ Rudd Street/ Bunda Street	152	69	88	41	1255	23	85	79	77	76	1519	130	0	0	10	0	3605
Northbourne Avenue/ Alinga Street	3	26	2	0	1415	72	63	30	92	70	1678	0	0	0	0	0	3451
Northbourne Avenue/ London Circuit	63	154	260	291	1150	69	184	162	388	130	1300	171	0	0	0	0	4322

Table B3.6 2031 Base PM Greentime

PM peak Intersection	Greentime (seconds)												LRV
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	
Hibberson Street/ Gozzard Street	10	10	10	26	26	10	10	10	10	26	26	10	
Hibberson Street/ Gungahlin Place													
Hibberson Street/ Hinder Street													
Hibberson Street/ Kate Crace Street													
Flemington Road/ Manning Clark Crescent/ Hamer Street		44	9		12	9		44	9		12	9	
Flemington Road/ Wizard Street		78	9	9		9		45					
Flemington Road/ De Bortoli Street													
Flemington Road/ Diane Barwick Street													
Flemington Road/ Moonlight Avenue													
Flemington Road/ Mapleton Avenue		11	11		27	9		9	9		44	9	
Flemington Road/ Nullabor Avenue		11	14		22	8		11	14		40	9	
Flemington Road/ Well Station Drive		19	9		29	11		19	9		29	11	

PM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Flemington Road/ Mitchell Resource Centre													
Flemington Road/ Lysaght Street													
Flemington Road/ Sandford Street/ Morisset Road		6	6		16	9		10	10	16	16	9	
Flemington Road/ Randwick Road													
Flemington Road/ EPIC													
Flemington Road/ Federal Highway	93		8		19							80	
Federal Highway/ Phillip Avenue		27	27		73	12	0	0	0	73	73	12	
Federal Highway/ Barton Highway					93	18			22		69		
Northbourne Avenue/ Swinden Street													
Northbourne Avenue/ Mouat Street/ Antill Street		25	25		24	16		19	19		47	16	
Northbourne Avenue/ Murdoch Street	18				35				18				
Northbourne Avenue/ Morphett Street			18							18	35		

PM peak Intersection	Greentime (seconds)												
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue		25	25		46	13		15	15		46	13	
Northbourne Avenue/ Ipima Street/ Condamine Street		25	25		55	10		13	13		55	10	
Northbourne Avenue/ Masson Street/ Girrahween Street	25	25	25		55	9		13	13	55	55	9	
Northbourne Avenue/ Gould Street/ Elouera Street	23	23	23	58	58	9	13	13	13	58	58	9	
Northbourne Avenue/ Barry Drive/ Cooyong Street	30	30	30		39	17		16	16	27	39	17	
Northbourne Avenue/ Rudd Street/ Bunda Street	15	15	19		72	19	15	15	19	72	72	19	
Northbourne Avenue/ Alinga Street	14	14	18	69	69	18	17	17	21	74	74	21	
Northbourne Avenue/ London Circuit		17	21	65	65	21	24	24	28		60	28	

Table B3.7 2031 Base PM Delay

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	41.0	38.1	45.5	22.4	20.1	45.7	41.0	39.1	37.8	42.3	43.3	84.1					43.6
Hibberson Street/ Gungahlin Place	0.4	0.4	1.4	0.7	0.6	3.0	1.7	2.2	2.2	1.2	1.9	2.8					1.4
Hibberson Street/ Hinder Street	0.9	9.2	0.9	1.6	4.4	9.7	1.7	1.2	2.4	2.6	3.4	6.5					4.2
Hibberson Street/ Kate Crace Street	154.2	154.8	156.3	5.0	5.2	5.8	8.5	7.1	21.0	143.6	126.2	128.4					99.4
Flemington Road/ Manning Clark Crescent/ Hamer Street	22.6	69.4	51.5	0.8	35.4		19.1	19.6	50.0	55.5	52.3			50.6			52.5
Flemington Road/ Wizard Street		100.2	51.1	1.0		77.7	4.1	39.9						46.6			74.1
Flemington Road/ De Bortoli Street					1.2		0.9		1.3								1.3
Flemington Road/ Diane Barwick Street							0.2			0.0							0.0
Flemington Road/ Moonlight Avenue					0.4	1.0			0.7								0.4
Flemington Road/ Mapleton Avenue	1.9	43.4	50.7	3.8	34.3	59.3	4.1	41.9	43.7	1.4	8.3	22.8	40.9				19.9
Flemington Road/ Nullabor Avenue	4.3	49.2	40.8	5.8	37.1	30.3	5.3	38.2	35.4	1.8	12.0	21.4			16.4		19.8
Flemington Road/ Well Station Drive	23.0	88.8	88.9		35.3	52.9	12.8	49.0	39.8	28.2	46.7	57.4					46.6

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					2.4						2.5						2.4
Flemington Road/ Lysaght Street					0.6	15.4	17.2		20.0	6.4	8.1						8.7
Flemington Road/ Sandford Street/ Morisset Road	4.2	29.6	28.0	1.6	32.6	60.4	29.7	36.5	39.3	48.5	59.7						45.6
Flemington Road/ Randwick Road					7.4	14.0	0.6		11.5	2.5	0.8						2.7
Flemington Road/ EPIC	26.8			0.2	12.6		17.8				0.5	0.7					3.8
Flemington Road/ Federal Highway	7.9		61.6	3.6	50.0						15.4	29.8					23.4
Federal Highway/ Phillip Avenue	1.7		51.3	4.4	21.9						17.9	66.6					23.6
Federal Highway/ Barton Highway					14.3	56.6	7.7		48.6	7.6	30.8						24.6
Northbourne Avenue/ Swinden Street	2.0		15.8	2.4	7.0					5.3	13.0	3.9					11.0
Northbourne Avenue/ Mouat Street/ Antill Street	53.8	143.7	151.0	3.1	59.9	104.4	32.5	71.7	61.8	14.3	68.9	46.6			44.9		75.5
Northbourne Avenue/ Murdoch Street					14.4	8.5	3.6			0.7	0.5						5.1
Northbourne Avenue/ Morphett Street	1.4			1.3	0.5						17.3	7.5					11.3

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	14.3	49.8	52.2	3.5	45.4	89.8	7.9	64.4	61.0	44.0	50.5	85.9	83.1		194.0		48.1
Northbourne Avenue/ Ipima Street/ Condamine Street	104.1	132.0	130.5	22.9	41.1	60.7	17.8	55.5	51.9	29.9	37.2	83.3	74.7				51.6
Northbourne Avenue/ Masson Street/ Girrahween Street	81.9	82.9	87.2	38.6	59.5	59.4	14.4	58.2	51.5	17.2	13.5	68.6	44.7		93.0		37.7
Northbourne Avenue/ Gould Street/ Elouera Street	337.6	247.9	241.3	9.7	14.1		48.9	53.5	48.0	28.2	15.7	82.4	61.3		52.8		51.0
Northbourne Avenue/ Barry Drive/ Cooyong Street	43.8	40.2	43.5	39.3	51.8	73.7	17.0	60.9	57.1	19.7	25.2	56.5					42.0
Northbourne Avenue/ Rudd Street/ Bunda Street	51.9	58.5	58.3	3.3	16.5	84.3	52.8	52.6	54.7	15.2	19.6	76.8			54.4		26.1
Northbourne Avenue/ Alinga Street	44.9	59.2	87.2		13.0	92.9	56.5	61.7	58.6	6.4	7.0						14.4
Northbourne Avenue/ London Circuit	9.5	53.0	55.6	16.2	6.6	87.8	50.6	52.5	49.3	22.2	36.6	143.2					35.5

Table B3.8 2031 Base PM Level of Service

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	C	C	D	B	B	D	C	C	C	D	D	F					D
Hibberson Street/ Gungahlin Place	A	A	A	A	A	A	A	A	A	A	A	A					A
Hibberson Street/ Hinder Street	A	A	A	A	A	A	A	A	A	A	A	A					A
Hibberson Street/ Kate Crace Street	F	F	F	A	A	A	A	A	B	F	F	F					F
Flemington Road/ Manning Clark Crescent/ Hamer Street	B	E	D	A	C		B	B	D	D	D			D			D
Flemington Road/ Wizard Street		F	D	A		F	A	C						D			F
Flemington Road/ De Bortoli Street					A		A		A								A
Flemington Road/ Diane Barwick Street							A				A						A
Flemington Road/ Moonlight Avenue					A	A			A								A
Flemington Road/ Mapleton Avenue	A	D	D	A	C	E	A	C	D	A	A	B	C				B
Flemington Road/ Nullabor Avenue	A	D	C	A	C	C	A	C	C	A	A	B			B		B
Flemington Road/ Well Station Drive	B	F	F		C	D	A	D	C	C	D	E					D

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					A						A						A
Flemington Road/ Lysaght Street					A	B	B		B	A	A						A
Flemington Road/ Sandford Street/ Morisset Road	A	C	C	A	C	E	C	C	C	D	E						D
Flemington Road/ Randwick Road					A	A	A		A	A	A						A
Flemington Road/ EPIC	B			A	A		B				A	A					A
Flemington Road/ Federal Highway	A		E	A	D						B	C					B
Federal Highway/ Phillip Avenue	A		D	A	B						B	E					B
Federal Highway/ Barton Highway					B	E	A		D	A	C						B
Northbourne Avenue/ Swinden Street	A		B	A	A					A	A	A					A
Northbourne Avenue/ Mouat Street/ Antill Street	D	F	F	A	E	F	C	F	E	B	E	D			D		F
Northbourne Avenue/ Murdoch Street					B	A	A			A	A						A
Northbourne Avenue/ Morphett Street	A			A	A						B	A					A

PM peak	Level of Service																
	Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	B	D	D	A	D	F	A	E	E	D	D	F	F		F		D
Northbourne Avenue/ Ipima Street/ Condamine Street	F	F	F	B	C	E	B	D	D	C	C	F	F				D
Northbourne Avenue/ Masson Street/ Girrahween Street	F	F	F	C	E	E	B	E	D	B	A	E	D		F		C
Northbourne Avenue/ Gould Street/ Elouera Street	F	F	F	A	B		D	D	D	C	B	F	E		D		D
Northbourne Avenue/ Barry Drive/ Cooyong Street	D	C	D	C	D	F	B	E	E	B	B	E					D
Northbourne Avenue/ Rudd Street/ Bunda Street	D	E	E	A	B	F	D	D	D	B	B	F			D		B
Northbourne Avenue/ Alinga Street	D	E	F		A	F	E	E	E	A	A						B
Northbourne Avenue/ London Circuit	A	D	D	B	A	F	D	D	D	B	C	F					C

B4. 2031 Project VISSIM model outputs

Table B4.1 2031 Project AM Volumes

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	86	173	16	0	226	0	6	43	296	8	99	112	0	0	0	0	1065
Hibberson Street/ Gungahlin Place	0	0	0	0	114	17	119	0	37	262	114	0	0	0	0	0	663
Hibberson Street/ Hinder Street	0	0	0	0	267	0	0	0	0	0	146	0	0	0	0	0	413
Hibberson Street/ Kate Crace Street	275	0	231	683	252	0	0	0	0	0	51	166	0	0	0	0	1658
Flemington Road/ Manning Clark Crescent/ Hamer Street	3	471	0	47	34	0	7	740	112	47	0	1	0	54	0	0	1516
Flemington Road/ Wizard Street	0	479	0	140	0	3	51	797	0	0	0	0	0	0	0	0	1471
Flemington Road/ De Bortoli Street	299	0	0	34	911	0	0	0	0	0	0	0	0	0	0	0	1244
Flemington Road/ Diane Barwick Street	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	4
Flemington Road/ Moonlight Avenue	64	0	0	33	1175	0	0	0	0	0	0	0	0	0	0	0	1272
Flemington Road/ Mapleton Avenue	165	79	186	253	943	48	28	121	161	0	378	58	4	0	30	0	2455

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Nullabor Avenue	314	130	143	115	1162	23	20	174	36	24	346	110	2	0	22	0	2620
Flemington Road/ Well Station Drive	87	346	35	0	1356	221	98	349	37	23	399	131	0	0	0	0	3082
Flemington Road/ Mitchell Resource Centre	0	0	0	0	1485	0	0	0	0	0	552	0	0	0	0	0	2037
Flemington Road/ Lysaght Street	139	0	140	164	1323	0	0	0	0	0	413	186	0	0	0	0	2365
Flemington Road/ Sandford Street/ Morisset Road	0	290	88	402	1020	60	66	240	147	253	462	1	1	0	0	0	3031
Flemington Road/ Randwick Road	3	0	0	1	1131	52	13	0	1	23	708	1	0	0	0	0	1935
Flemington Road/ EPIC	0	0	0	0	1144	0	0	0	0	0	733	0	0	0	0	0	1877
Flemington Road/ Federal Highway	1136	0	85	10	1136	0	0	0	0	0	651	459	0	0	0	0	3477
Federal Highway/ Phillip Avenue	130	0	190	455	1835	0	0	0	0	0	928	93	0	0	0	0	3631
Federal Highway/ Barton Highway	0	0	0	0	1595	360	241	0	1108	213	782	0	0	0	0	0	4299
Northbourne Avenue/ Swinden Street	50	1	17	29	2696	8	4	3	4	12	974	28	0	0	4	0	3829
Northbourne Avenue/ Mouat Street/ Antill Street	440	411	220	674	1907	143	116	641	520	138	679	177	0	0	26	0	6092
Northbourne Avenue/ Murdoch Street	0	0	0	0	2688	221	106	0	0	11	899	0	2	0	0	0	3927

AM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Morphett Street	0	0	0	90	2594	0	0	0	0	0	913	191	0	0	2	0	3789
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	74	318	187	623	1874	178	227	610	312	231	725	48	0	0	15	0	5423
Northbourne Avenue/ Ipima Street/ Condamine Street	0	116	106	274	1876	23	22	297	192	44	872	87	53	0	0	0	3961
Northbourne Avenue/ Masson Street/ Girrahween Street	59	57	101	260	1902	76	32	224	102	46	934	26	10	0	0	0	3829
Northbourne Avenue/ Gould Street/ Elouera Street	74	121	68	47	1919	17	33	141	26	62	868	110	33	0	18	0	3537
Northbourne Avenue/ Barry Drive/ Cooyong Street	94	352	183	193	1485	375	88	591	330	174	858	238	0	0	0	0	4963
Northbourne Avenue/ Rudd Street/ Bunda Street	120	72	38	57	1858	0	101	91	20	131	1136	126	0	0	32	0	3782
Northbourne Avenue/ Alinga Street	2	25	2	0	1981	50	12	30	50	108	1418	0	0	0	0	0	3679
Northbourne Avenue/ London Circuit	7	95	131	321	1586	114	141	146	300	135	1250	130	0	0	0	0	4357

Table B4.2 2031 Project AM Greentime

Intersection	Greentime (seconds)												LRV
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	
Hibberson Street/ Gozzard Street	19	19	19	31	31	9	18	18	18	31	31	9	
Hibberson Street/ Gungahlin Place													
Hibberson Street/ Hinder Street					10						10		14
Hibberson Street/ Kate Crace Street	67		20	82	28						28	19	53
Flemington Road/ Manning Clark Crescent/ Hamer Street		57	8		8	8		57	8		8	8	53
Flemington Road/ Wizard Street		72	9	12		12		57					54
Flemington Road/ De Bortoli Street													
Flemington Road/ Diane Barwick Street													
Flemington Road/ Moonlight Avenue													
Flemington Road/ Mapleton Avenue		14	14		39	9		12	12		39	9	35
Flemington Road/ Nullabor Avenue		14	8		34	6		14	8		35	6	21
Flemington Road/ Well Station Drive		21	7		46	8		21	7		32	10	28

Intersection	Greentime (seconds)												
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Flemington Road/ Mitchell Resource Centre	11		6	78	65		7		79	65	65		63
Flemington Road/ Lysaght Street						15	20		9	51	51		45
Flemington Road/ Sandford Street/ Morisset Road		13	13	38	38	6	14	14	14	38	38	6	34
Flemington Road/ Randwick Road	12	12	12	39	39	7		14	14	39	39	7	34
Flemington Road/ EPIC													
Flemington Road/ Federal Highway	64		10		55							19	37
Federal Highway/ Phillip Avenue		14	14		82	10	0	0	0	82	82	10	73
Federal Highway/ Barton Highway					61	24			31		29		28
Northbourne Avenue/ Swinden Street	20	20	20	73	73	11	20	20	20		73	11	61
Northbourne Avenue/ Mouat Street/ Antill Street		13	13		45	13		25	25		45	13	39
Northbourne Avenue/ Murdoch Street	10				48	10			10				48
Northbourne Avenue/ Morphett Street													

Intersection	Greentime (seconds)												LRV
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue		13	13		49	9		25	25		32	8	30
Northbourne Avenue/ Ipima Street/ Condamine Street		16	16		54	8		21	21		54	8	47
Northbourne Avenue/ Masson Street/ Girrahween Street	14	14	14		63	8		15	15	63	63	8	56
Northbourne Avenue/ Gould Street/ Elouera Street	12	12	12	66	66	9	13	13	13	66	66	9	58
Northbourne Avenue/ Barry Drive/ Cooyong Street	15	15	15		52	29		16	16	39	39	16	34
Northbourne Avenue/ Rudd Street/ Bunda Street	10	10	10		67	67	10	10	10	84	84	10	59
Northbourne Avenue/ Alinga Street	14	14	18	69	69	18	16	16	20	74	74	20	
Northbourne Avenue/ London Circuit		13	17	71	71	17	20	20	24		66	24	

Table B4.3 2031 Project AM Delay

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	41.6	42.7	40.5		29.2	48.1	55.1	45.4	47.5	26.9	31.4	53.2					41.1
Hibberson Street/ Gungahlin Place					0.0	0.2	1.2		1.0	0.9	0.3						0.7
Hibberson Street/ Hinder Street					15.4						12.4						14.4
Hibberson Street/ Kate Crace Street	27.5		83.5	6.9	45.0						43.5	59.3					33.1
Flemington Road/ Manning Clark Crescent/ Hamer Street	2.5	14.5		2.4	58.4		26.5	17.0	69.1	52.5		71.6		71.0			23.6
Flemington Road/ Wizard Street		3.2		44.7		36.6	2.6	22.7									17.8
Flemington Road/ De Bortoli Street	3.2			0.8	0.9												1.4
Flemington Road/ Diane Barwick Street										0.0	0.0						0.0
Flemington Road/ Moonlight Avenue	4.1			0.9	1.6												1.7
Flemington Road/ Mapleton Avenue	70.8	72.0	71.7	40.8	45.5	81.9	65.3	65.2	67.4		18.8	88.1	81.7		113.4		50.7
Flemington Road/ Nullabor Avenue	13.4	48.7	69.8	9.0	20.4	48.1	10.0	45.8	45.4	3.9	20.6	149.9	52.9		155.0		31.8
Flemington Road/ Well Station Drive	21.1	85.4	89.0	0.8	35.4	32.9	42.7	108.5	61.8	11.2	35.9	97.5					52.4

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					21.5						2.9						16.4
Flemington Road/ Lysaght Street	70.4		24.7	56.3	18.3						24.6	17.6					25.4
Flemington Road/ Sandford Street/ Morisset Road		200.8	201.8	43.5	48.5	77.3	43.5	49.1	43.7	44.0	42.3	34.0	91.8				65.8
Flemington Road/ Randwick Road	44.6		18.9	37.1	48.3	107.9	1.9		38.3	20.9	24.3	27.5					40.4
Flemington Road/ EPIC					18.3						0.4						11.3
Flemington Road/ Federal Highway	29.5		84.4	19.2	36.8						12.9	69.2					35.3
Federal Highway/ Phillip Avenue	7.5		60.8	10.4	22.3						17.8	73.7					22.5
Federal Highway/ Barton Highway					24.1	60.4	38.5		81.6	2.6	41.6						44.9
Northbourne Avenue/ Swinden Street	61.8	23.7	39.8	42.0	48.2	93.3	59.5	45.1	69.5	9.1	27.2	82.4			78.2		43.2
Northbourne Avenue/ Mouat Street/ Antill Street	32.8	162.9	124.7	34.3	76.6	128.3	127.6	182.8	161.7	1.9	54.4	128.5			130.6		94.5
Northbourne Avenue/ Murdoch Street					13.3	53.3	1.7			0.7	0.3		43.8				12.2
Northbourne Avenue/ Morphett Street				0.6	0.3						4.0	40.1			45.5		3.2

AM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	51.6	126.4	119.6	10.1	43.3	49.3	146.9	199.5	192.2	17.7	46.1	75.1			100.7		77.5
Northbourne Avenue/ Ipima Street/ Condamine Street		67.4	60.0	29.0	38.3	205.8	11.1	60.7	64.6	24.5	39.3	77.6	141.9				45.2
Northbourne Avenue/ Masson Street/ Girrahween Street	61.5	59.4	59.5	6.5	8.4	77.6	116.6	123.1	121.8	3.8	14.3	47.0	60.6				25.0
Northbourne Avenue/ Gould Street/ Elouera Street	85.5	91.9	94.2	30.2	5.1	59.0	53.8	67.0	67.4	31.3	29.9	87.2	86.9		98.1		25.8
Northbourne Avenue/ Barry Drive/ Cooyong Street	101.5	101.3	77.9	16.7	13.7	73.7	148.1	139.1	126.9	29.7	31.1	88.2					60.6
Northbourne Avenue/ Rudd Street/ Bunda Street	79.8	78.5	79.8	6.8	11.6		91.1	85.6	85.3	2.7	3.3	106.1			88.9		20.9
Northbourne Avenue/ Alinga Street	16.9	61.6	82.9		5.3	56.7	49.3	55.0	54.7	3.0	5.5						7.7
Northbourne Avenue/ London Circuit	3.5	57.3	63.0	10.6	5.9	79.9	51.8	52.0	51.8	15.0	22.9	88.9					24.8

Table B4.4 2031 Project AM Level of Service

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	C	D	C		C	D	D	D	D	B	C	D					C
Hibberson Street/ Gungahlin Place					A	A	A		A	A	A						A
Hibberson Street/ Hinder Street					B						A						B
Hibberson Street/ Kate Crace Street	B		F	A	D						D	E					C
Flemington Road/ Manning Clark Crescent/ Hamer Street	A	B		A	E		B	B	E	D		F		F			B
Flemington Road/ Wizard Street		A		D		C	A	B									B
Flemington Road/ De Bortoli Street	A			A	A												A
Flemington Road/ Diane Barwick Street										A	A						A
Flemington Road/ Moonlight Avenue	A			A	A												A
Flemington Road/ Mapleton Avenue	F	F	F	C	D	F	E	E	E		B	F	F		F		D
Flemington Road/ Nullabor Avenue	A	D	E	A	B	D	A	D	D	A	B	F	D		F		C
Flemington Road/ Well Station Drive	B	F	F	A	C	C	D	F	E	A	C	F					D

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					B						A						B
Flemington Road/ Lysaght Street	F		B	E	B						B	B					B
Flemington Road/ Sandford Street/ Morisset Road		F	F	D	D	F	D	D	D	D	D	C	F				E
Flemington Road/ Randwick Road	D		B	C	D	F	A		C	B	B	B					C
Flemington Road/ EPIC					B						A						A
Flemington Road/ Federal Highway	C		F	B	C						A	E					C
Federal Highway/ Phillip Avenue	A		E	A	B						B	F					B
Federal Highway/ Barton Highway					B	E	C		F	A	C						D
Northbourne Avenue/ Swinden Street	E	B	C	D	D	F	E	D	E	A	B	F			F		D
Northbourne Avenue/ Mouat Street/ Antill Street	C	F	F	C	F	F	F	F	F	A	D	F			F		F
Northbourne Avenue/ Murdoch Street					A	D	A			A	A		D				A
Northbourne Avenue/ Morphett Street				A	A						A	C			D		A

AM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	D	F	F	A	D	D	F	F	F	B	D	F			F		F
Northbourne Avenue/ Ipima Street/ Condamine Street		E	E	C	C	F	A	E	E	B	C	F	F				D
Northbourne Avenue/ Masson Street/ Girrahween Street	E	E	E	A	A	F	F	F	F	A	B	D	E				B
Northbourne Avenue/ Gould Street/ Elouera Street	F	F	F	C	A	E	D	E	E	C	C	F	F		F		B
Northbourne Avenue/ Barry Drive/ Cooyong Street	F	F	F	B	A	F	F	F	F	C	C	F					E
Northbourne Avenue/ Rudd Street/ Bunda Street	F	F	F	A	A		F	F	F	A	A	F			F		B
Northbourne Avenue/ Alinga Street	B	E	F		A	E	D	D	D	A	A						A
Northbourne Avenue/ London Circuit	A	E	E	A	A	F	D	D	D	B	B	F					B

Table B4.5 2031 Project PM Volumes

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	88	78	69	13	165	14	16	92	213	160	240	131	0	0	0	0	1279
Hibberson Street/ Gungahlin Place	0	0	0	0	37	87	184	0	52	145	317	0	0	0	0	0	821
Hibberson Street/ Hinder Street	0	0	0	0	112	0	0	0	0	0	470	0	0	0	0	0	581
Hibberson Street/ Kate Crace Street	521	0	340	327	220	0	0	0	0	0	132	211	0	0	0	0	1750
Flemington Road/ Manning Clark Crescent/ Hamer Street	10	754	0	8	3	0	21	436	75	103	9	1	0	93	0	0	1513
Flemington Road/ Wizard Street	0	850	0	44	0	17	89	451	0	0	0	0	0	0	0	0	1451
Flemington Road/ De Bortoli Street	185	0	0	43	466	0	0	0	0	0	0	0	0	0	0	0	694
Flemington Road/ Diane Barwick Street	0	0	0	0	0	0	5	0	0	0	31	0	0	0	0	0	36
Flemington Road/ Moonlight Avenue	21	0	0	59	589	0	0	0	0	0	0	0	0	0	0	0	669
Flemington Road/ Mapleton Avenue	76	78	141	144	368	84	33	56	38	0	880	179	6	0	1	0	2084
Flemington Road/ Nullabor Avenue	150	98	89	46	403	21	23	42	26	29	1001	277	0	0	18	0	2224
Flemington Road/ Well Station Drive	95	460	71	3	388	172	480	367	25	72	811	170	0	0	0	0	3113

PM peak	Volume																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Centre	0	0	0	0	507	0	0	0	0	0	1062	0	0	0	0	0	1569
Flemington Road/ Lysaght Street	107	0	164	125	383	0	0	0	0	0	902	112	0	0	0	0	1792
Flemington Road/ Sandford Street/ Morisset Road	0	141	74	64	404	27	44	344	100	155	901	0	0	0	0	0	2254
Flemington Road/ Randwick Road	1	0	3	1	487	16	9	0	5	21	1054	2	0	0	0	0	1600
Flemington Road/ EPIC	0	0	0	0	500	0	0	0	0	0	1065	0	0	0	0	0	1565
Flemington Road/ Federal Highway	645	0	69	40	455	0	0	0	0	0	999	757	0	0	0	0	2965
Federal Highway/ Phillip Avenue	123	0	315	178	924	0	0	0	0	0	1444	130	0	0	0	0	3114
Federal Highway/ Barton Highway	0	0	0	0	725	317	228	0	361	952	0	0	0	0	0	0	2582
Northbourne Avenue/ Swinden Street	43	1	12	1	1085	5	34	0	18	12	2240	66	0	0	23	0	3540
Northbourne Avenue/ Mouat Street/ Antill Street	235	541	570	244	771	154	181	435	255	382	1638	173	0	0	65	0	5645
Northbourne Avenue/ Murdoch Street	0	0	0	0	1260	66	34	0	0	21	2272	0	15	0	0	0	3667
Northbourne Avenue/ Morphett Street	89	0	0	74	1187	0	0	0	0	0	2311	106	0	0	7	0	3775

PM peak	Volume																
	Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	48	379	362	209	963	138	304	346	232	376	1834	75	20	0	8	0	5294
Northbourne Avenue/ Ipima Street/ Condamine Street	0	213	291	146	1050	50	19	86	44	97	1975	120	37	0	0	0	4126
Northbourne Avenue/ Masson Street/ Girrahween Street	64	188	309	156	1036	34	153	93	39	40	1925	19	9	0	2	0	4068
Northbourne Avenue/ Gould Street/ Elouera Street	182	177	206	35	1122	0	76	50	23	31	1698	34	18	0	31	0	3681
Northbourne Avenue/ Barry Drive/ Cooyong Street	123	682	318	153	905	308	225	479	279	218	1263	172	0	0	0	0	5124
Northbourne Avenue/ Rudd Street/ Bunda Street	152	66	83	44	1273	0	93	82	82	82	1483	134	0	0	11	0	3585
Northbourne Avenue/ Alinga Street	2	26	2	0	1463	68	43	30	66	70	1668	0	0	0	0	0	3439
Northbourne Avenue/ London Circuit	63	157	269	288	1163	69	191	167	410	135	1279	178	0	0	0	0	4369

Table B4.6 2031 Project PM Greentime

PM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Hibberson Street/ Gozzard Street	18	18	18	30	30	9	18	18	18	30	30	9	
Hibberson Street/ Gungahlin Place													
Hibberson Street/ Hinder Street					11						11		14
Hibberson Street/ Kate Crace Street	66		34	86	30						30	13	24
Flemington Road/ Manning Clark Crescent/ Hamer Street		53	8		8	7		53	8		8	7	51
Flemington Road/ Wizard Street		70	9	11		11		40					33
Flemington Road/ De Bortoli Street													
Flemington Road/ Diane Barwick Street													
Flemington Road/ Moonlight Avenue													
Flemington Road/ Mapleton Avenue		14	14		24	8		13	13		39	8	24
Flemington Road/ Nullabor Avenue		14	7		28	6		14	7		40	14	16
Flemington Road/ Well Station Drive		23	8		24	10		23	8		24	10	22

PM peak	Greentime (seconds)												
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Flemington Road/ Mitchell Resource Centre	12		6	78	66		7		79	66	66		62
Flemington Road/ Lysaght Street						15	20		9	54	54		50
Flemington Road/ Sandford Street/ Morisset Road		9	9	38	38	8	15	15	15	38	38	8	36
Flemington Road/ Randwick Road	12	12	12	40	40	8		14	14	40	40	8	35
Flemington Road/ EPIC													
Flemington Road/ Federal Highway	82		7		30							26	24
Federal Highway/ Phillip Avenue		21	21		74	10	0	0	0	74	74	10	65
Federal Highway/ Barton Highway					89	20			23		60		56
Northbourne Avenue/ Swinden Street	20	20	20	76	76	10	20	20	20		76	10	62
Northbourne Avenue/ Mouat Street/ Antill Street		26	26		20	16		18	18		43	16	19
Northbourne Avenue/ Murdoch Street	10				47	10			10				47
Northbourne Avenue/ Morphett Street													

PM peak Intersection	Greentime (seconds)												
	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	LRV
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue		19	19		55	11		13	13		55	11	50
Northbourne Avenue/ Ipima Street/ Condamine Street		24	24		52	8		15	15		52	8	45
Northbourne Avenue/ Masson Street/ Girrahween Street	25	25	25		52	8		14	14	52	52	8	43
Northbourne Avenue/ Gould Street/ Elouera Street	28	28	28	50	50	8	12	12	12	50	50	8	44
Northbourne Avenue/ Barry Drive/ Cooyong Street	26	26	26		41	18		14	14	41	41	18	34
Northbourne Avenue/ Rudd Street/ Bunda Street	11	11	11		30	30	10	10	10	54	54	12	29
Northbourne Avenue/ Alinga Street	14	14	18	69	69	18	17	17	21	74	74	21	
Northbourne Avenue/ London Circuit		17	21	64	64	21	24	24	28		59	28	

Table B4.7 2031 Project PM Delay

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	35.0	40.9	42.9	28.4	27.3	46.8	43.6	37.2	40.2	38.8	44.4	76.6					42.5
Hibberson Street/ Gungahlin Place					0.6	0.6	2.8		1.2	1.2	0.5						1.2
Hibberson Street/ Hinder Street					14.3						18.5						17.7
Hibberson Street/ Kate Crace Street	23.4		44.6	3.6	35.1						50.9	79.9					34.2
Flemington Road/ Manning Clark Crescent/ Hamer Street	0.5	10.3		1.6	67.9		18.6	15.3	50.3	61.5	58.1	72.4		70.1			21.3
Flemington Road/ Wizard Street		5.7		39.0		42.2	4.2	37.8									17.1
Flemington Road/ De Bortoli Street	1.1			0.9	0.8												0.9
Flemington Road/ Diane Barwick Street							0.1				0.0						0.0
Flemington Road/ Moonlight Avenue	0.5			1.0	0.4												0.5
Flemington Road/ Mapleton Avenue	46.2	46.5	43.1	23.1	31.2	110.1	49.9	46.8	39.4		17.6	32.9	103.9		27.3		31.2
Flemington Road/ Nullabor Avenue	2.6	40.7	52.4	2.8	19.6	60.8	3.2	42.2	45.6	4.0	18.2	65.3			66.6		26.6
Flemington Road/ Well Station Drive	15.9	67.3	71.5	3.3	27.4	62.9	21.2	61.4	51.2	24.6	46.5	108.9					48.5

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					2.3						2.4						2.3
Flemington Road/ Lysaght Street	53.8		25.7	26.8	3.5						8.1	10.3					12.9
Flemington Road/ Sandford Street/ Morisset Road	0.5	56.1	52.0	11.3	14.0	64.6	48.3	51.0	43.4	20.4	21.2	19.1	101.1				29.4
Flemington Road/ Randwick Road	55.1		39.1	0.1	19.4	78.3	2.3		32.0	31.6	28.5	84.2					26.2
Flemington Road/ EPIC					3.7						0.4						1.5
Flemington Road/ Federal Highway	10.6		94.7	18.1	41.2						13.9	43.9					27.0
Federal Highway/ Phillip Avenue	4.7		61.2	2.8	19.6						26.2	81.0					27.9
Federal Highway/ Barton Highway					9.5	79.2	7.6		47.1	11.5							23.9
Northbourne Avenue/ Swinden Street	55.1	14.0	44.8	16.4	17.0	67.2	53.8	91.1	48.4	47.4	51.0	135.5			236.7		43.4
Northbourne Avenue/ Mouat Street/ Antill Street	52.8	147.3	168.7	3.9	70.8	106.7	32.5	83.2	69.4	66.4	180.8	141.4			135.8		119.6
Northbourne Avenue/ Murdoch Street					8.1	28.7	84.3			6.6	18.6		45.6				15.8
Northbourne Avenue/ Morphett Street	1.6			0.7	0.4						54.2	56.4			54.1		35.1

PM peak	Delay (seconds)																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	20.9	73.9	84.0	1.8	29.2	134.3	19.5	97.8	84.8	7.4	14.5	96.8	131.4		81.9		38.9
Northbourne Avenue/ Ipima Street/ Condamine Street		115.9	115.5	18.0	39.1	92.9	0.7	52.6	58.8	21.5	27.5	158.6	84.8				46.6
Northbourne Avenue/ Masson Street/ Girrahween Street	78.5	82.1	81.2	35.4	56.3	71.5	54.2	79.2	75.1	22.1	20.1	77.4	60.6		83.0		42.3
Northbourne Avenue/ Gould Street/ Elouera Street	241.7	163.8	163.8	14.3	19.7		55.4	53.0	58.8	30.9	26.4	95.3	75.3		43.6		51.3
Northbourne Avenue/ Barry Drive/ Cooyong Street	66.5	60.7	58.6	65.4	61.6	189.1	285.3	208.2	179.1	42.2	40.6	61.5					93.1
Northbourne Avenue/ Rudd Street/ Bunda Street	65.7	60.2	62.5	43.5	37.9		52.6	51.1	56.4	20.6	20.7	37.9			36.7		33.7
Northbourne Avenue/ Alinga Street	36.9	64.4	80.7		20.7	92.1	58.9	58.7	55.7	4.7	7.6						17.3
Northbourne Avenue/ London Circuit	12.2	54.4	57.0	12.4	3.9	84.9	51.0	51.1	50.1	23.3	32.3	146.3					33.9

Table B4.8 2031 Project PM Level of Service

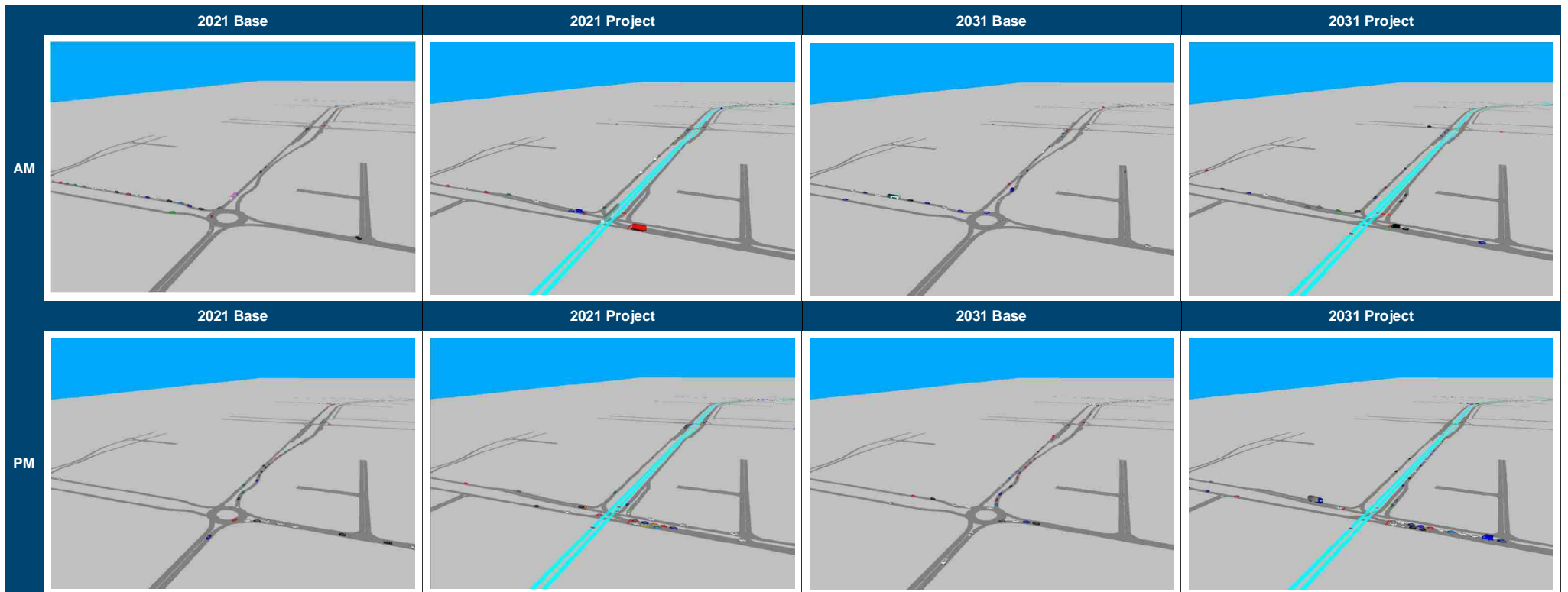
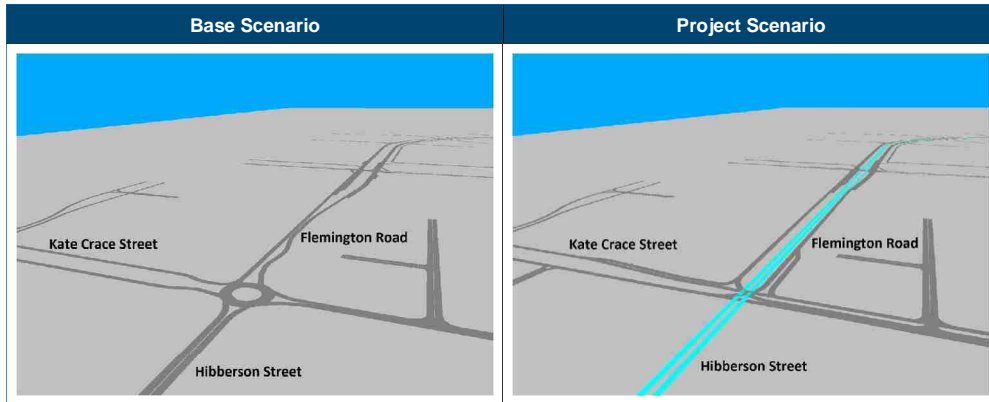
PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Hibberson Street/ Gozzard Street	C	C	D	C	B	D	D	C	C	C	D	F					D
Hibberson Street/ Gungahlin Place					A	A	A		A	A	A						A
Hibberson Street/ Hinder Street					B						B						B
Hibberson Street/ Kate Crace Street	B		D	A	C						D	F					C
Flemington Road/ Manning Clark Crescent/ Hamer Street	A	A		A	E		B	B	D	E	E	F		F			B
Flemington Road/ Wizard Street		A		C		D	A	C									B
Flemington Road/ De Bortoli Street	A			A	A												A
Flemington Road/ Diane Barwick Street							A				A						A
Flemington Road/ Moonlight Avenue	A			A	A												A
Flemington Road/ Mapleton Avenue	D	D	D	B	C	F	D	D	C		B	C	F		B		C
Flemington Road/ Nullabor Avenue	A	C	D	A	B	E	A	D	D	A	B	E			E		B
Flemington Road/ Well Station Drive	B	E	F	A	B	E	B	E	D	B	D	F					D

PM peak	Level of Service																
Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W	Total
Flemington Road/ Mitchell Resource Management Centre					A						A						A
Flemington Road/ Lysaght Street	D		B	B	A						A	A					A
Flemington Road/ Sandford Street/ Morisset Road	A	E	D	A	B	E	D	D	D	B	B	B	F				C
Flemington Road/ Randwick Road	D		C	A	B	F	A		C	C	C	F					B
Flemington Road/ EPIC					A						A						A
Flemington Road/ Federal Highway	A		F	B	C						A	D					B
Federal Highway/ Phillip Avenue	A		E	A	B						B	F					B
Federal Highway/ Barton Highway					A	F	A		D	A							B
Northbourne Avenue/ Swinden Street	D	B	D	B	B	E	D	F	D	D	D	F			F		D
Northbourne Avenue/ Mouat Street/ Antill Street	D	F	F	A	F	F	C	F	E	E	F	F			F		F
Northbourne Avenue/ Murdoch Street					A	C	F			A	B		D				B
Northbourne Avenue/ Morphett Street	A			A	A						D	E			D		C

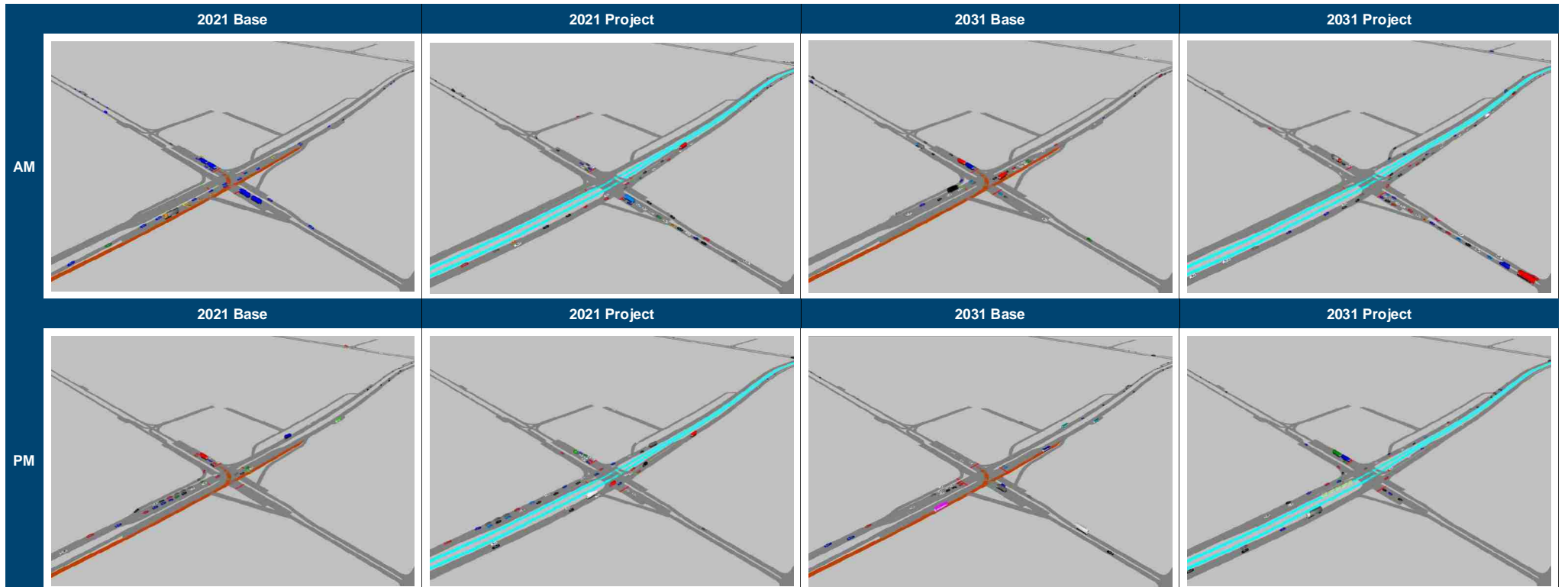
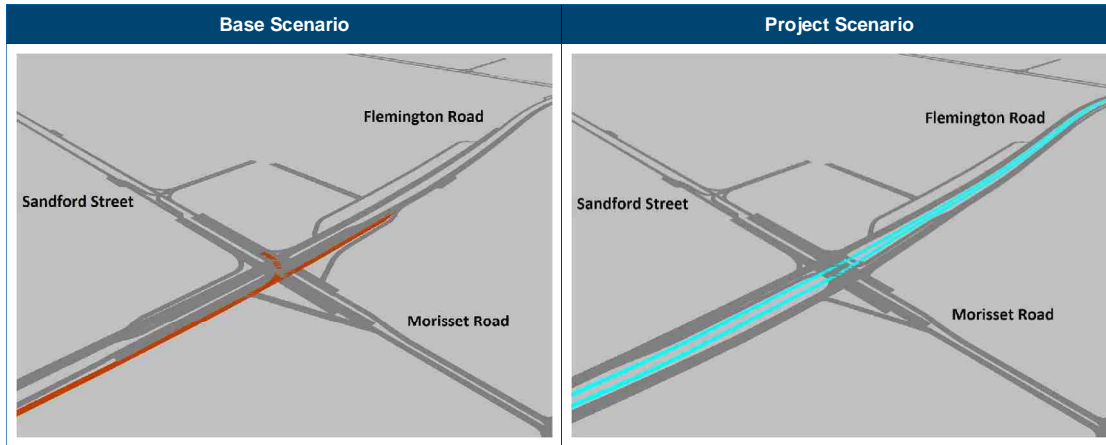
PM peak	Level of Service																
	Intersection	E-S	E-W	E-N	N-E	N-S	N-W	W-N	W-E	W-S	S-W	S-N	S-E	N-N	E-E	S-S	W-W
Northbourne Avenue/ Wakefield Avenue/ Macarthur Avenue	B	F	F	A	C	F	B	F	F	A	B	F	F		F		C
Northbourne Avenue/ Ipima Street/ Condamine Street		F	F	B	C	F	A	D	E	B	B	F	F				D
Northbourne Avenue/ Masson Street/ Girrahween Street	F	F	F	C	E	F	D	F	F	B	B	F	E		F		D
Northbourne Avenue/ Gould Street/ Elouera Street	F	F	F	B	B		D	D	E	C	B	F	F		D		D
Northbourne Avenue/ Barry Drive/ Cooyong Street	E	E	E	E	E	F	F	F	F	D	C	E					F
Northbourne Avenue/ Rudd Street/ Bunda Street	E	E	E	D	C		D	D	E	B	B	C			C		C
Northbourne Avenue/ Alinga Street	C	E	F		B	F	E	E	D	A	A						B
Northbourne Avenue/ London Circuit	A	D	E	A	A	F	D	D	D	B	C	F					C

B5. VISSIM model screenshots

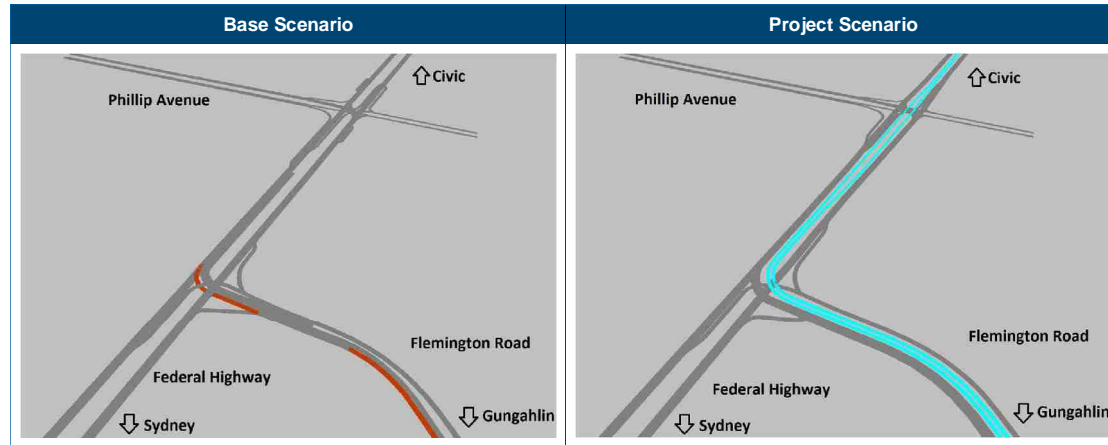
Intersection: Hibberson Street and Kate Grace Street



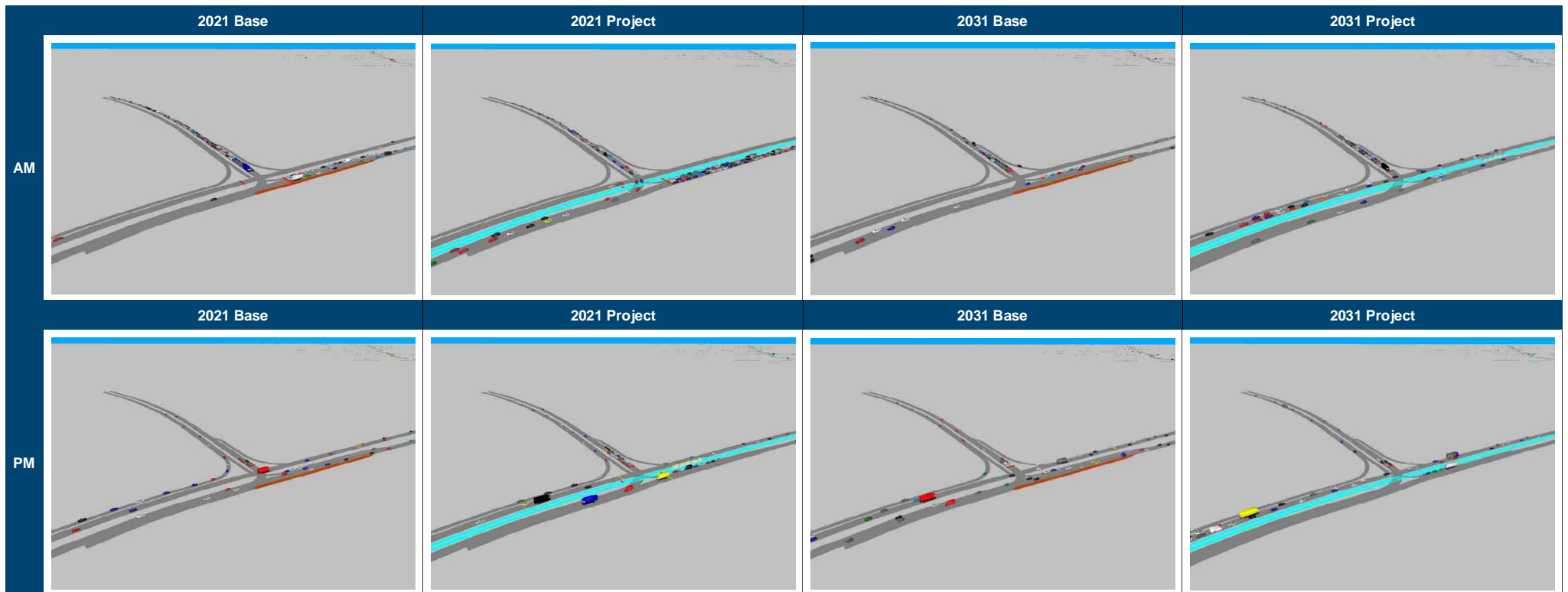
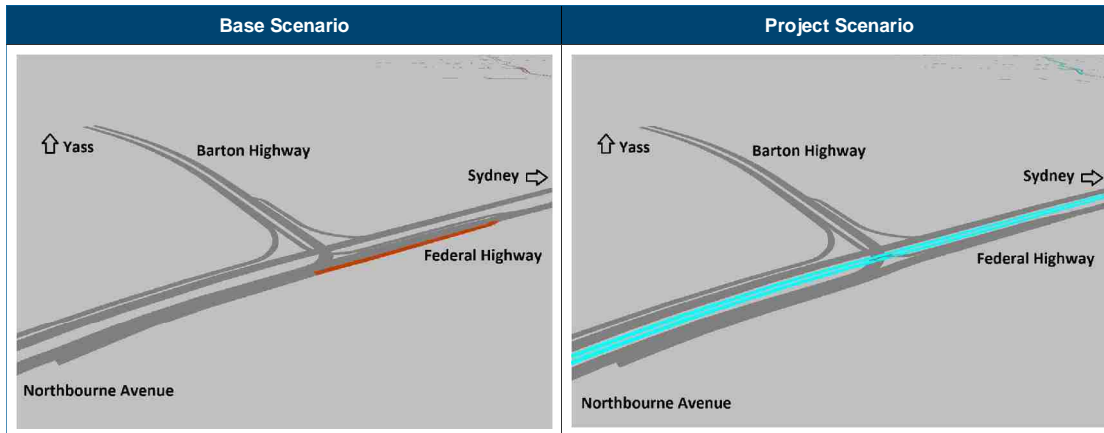
Intersection: Flemington Road and Sandford Street/Morisset Road



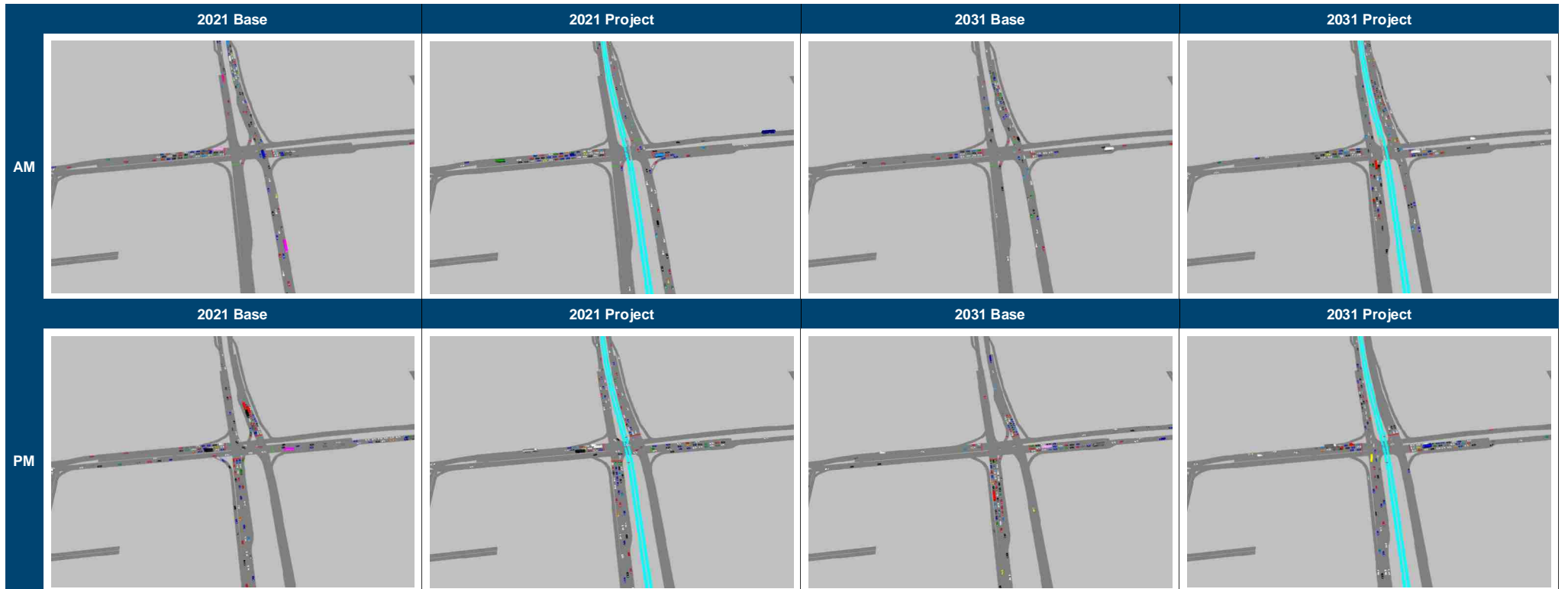
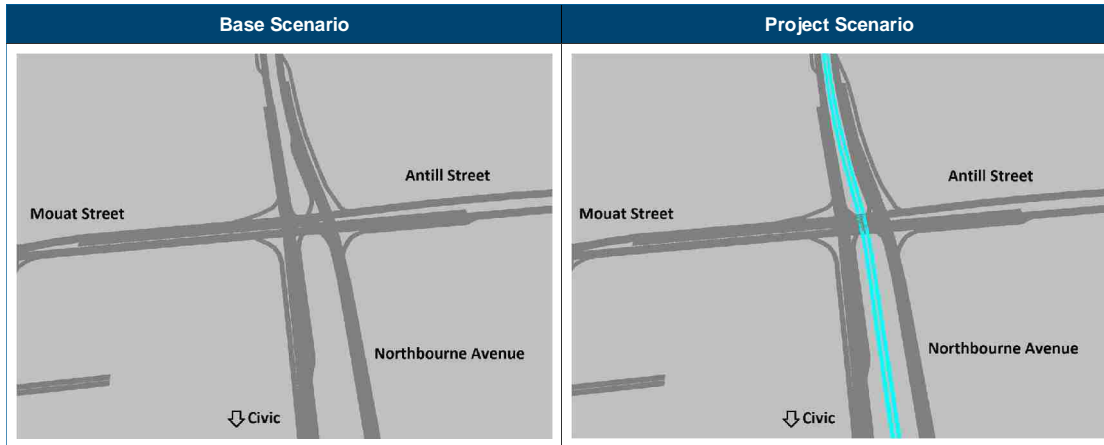
Intersection: Federal Highway and Flemington Road



Intersection: Federal Highway and Barton Highway



Intersection: Northbourne Avenue and Antill Street/Mouat Street



Intersection: Northbourne Avenue and Barry Drive/Cooyong Street

