

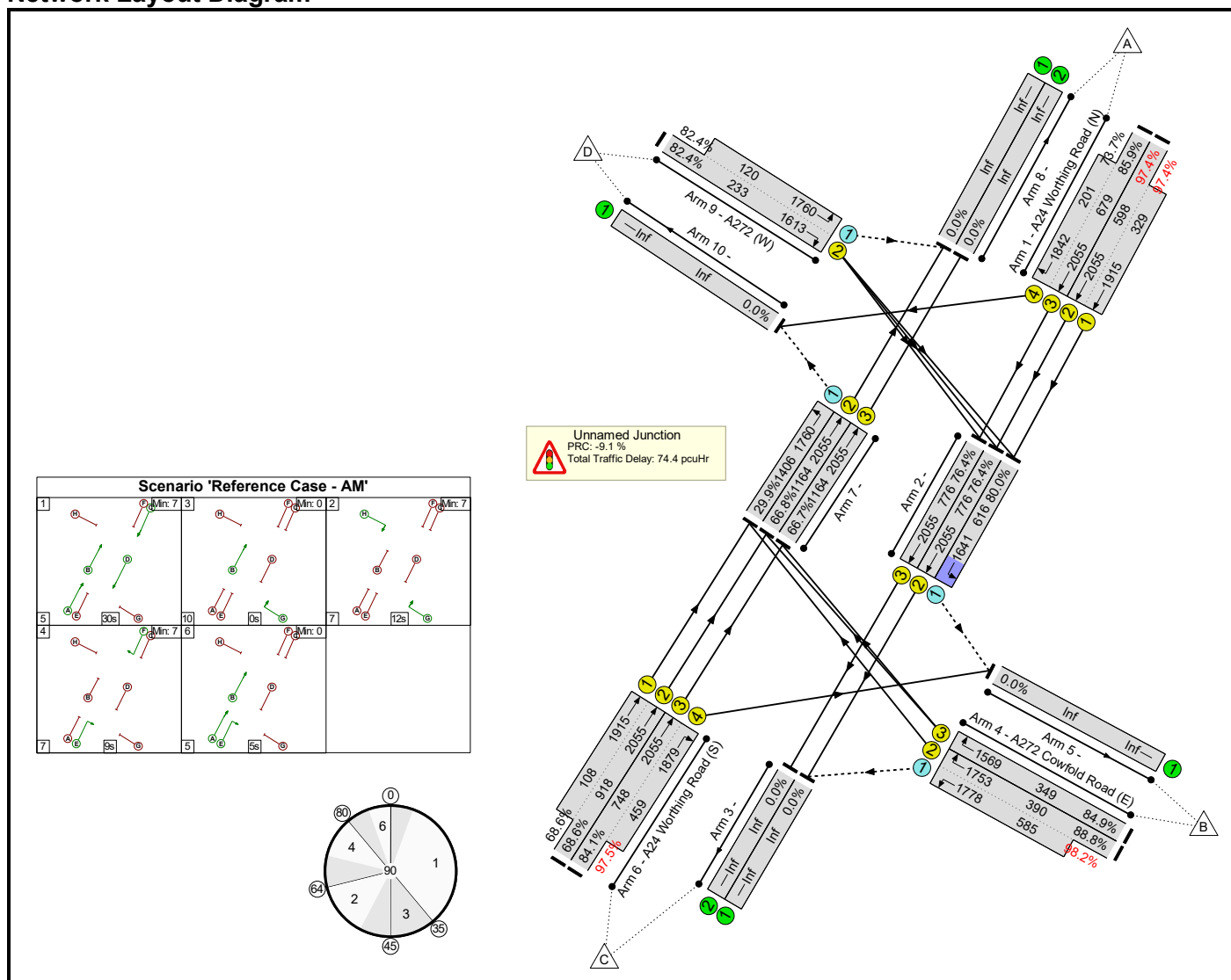
# **Appendix J      Buck Barn Detailed Junction Modelling Outputs**

Basic Results Summary  
**Basic Results Summary**

**User and Project Details**

<b>Project:</b>	
<b>Title:</b>	
<b>Location:</b>	
<b>Additional detail:</b>	
<b>File name:</b>	A24_A242 Buck Barn X-Road - SA - Reference_Case.lsg3x
<b>Author:</b>	
<b>Company:</b>	
<b>Address:</b>	

**Scenario 1: 'Reference Case - AM'** (FG1: 'AM Peak - Reference Case', Plan 1: 'AM')  
**Network Layout Diagram**

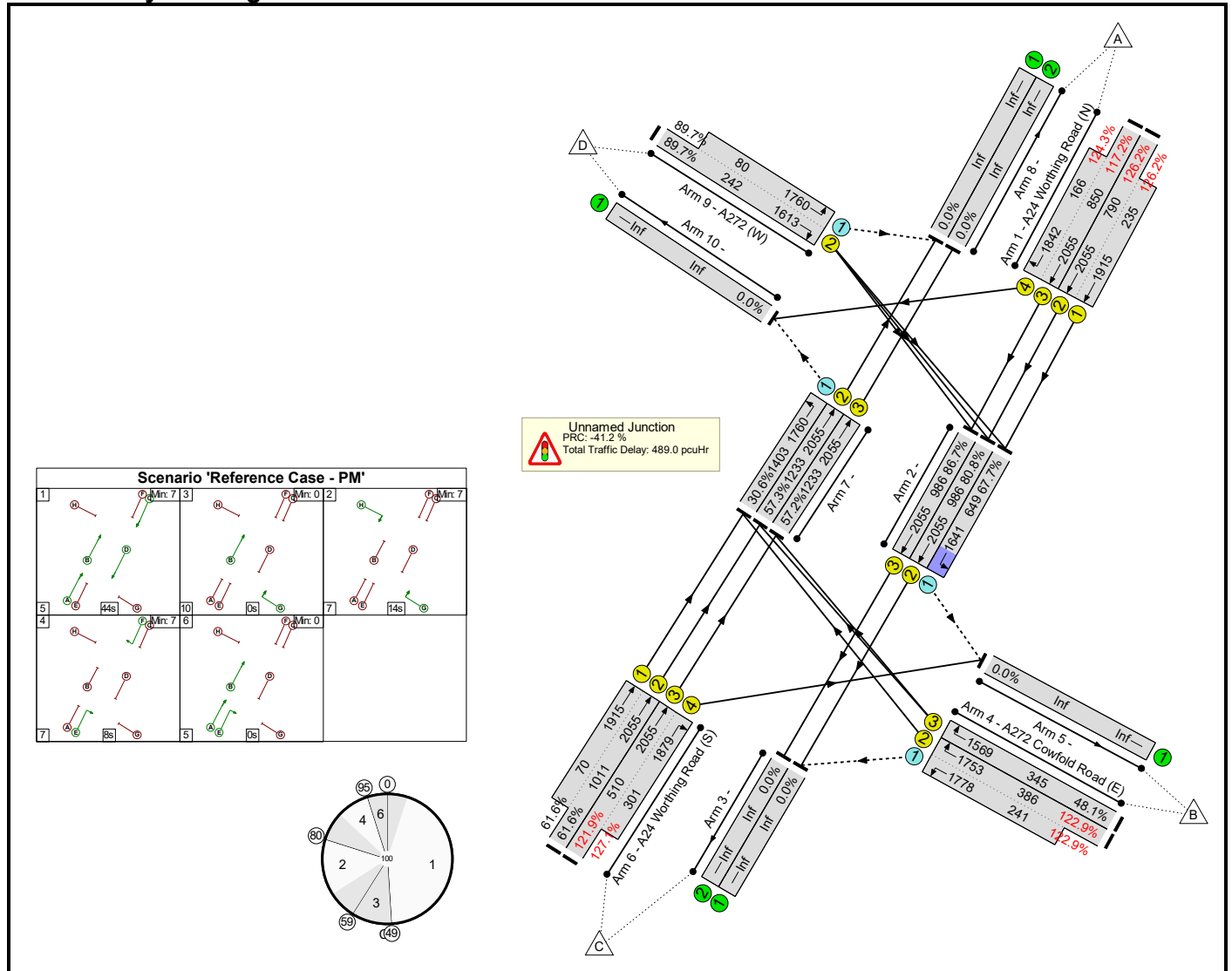




Basic Results Summary

Scenario 2: 'Reference Case - PM' (FG2: 'PM Peak - Reference Case', Plan 2: 'PM')

Network Layout Diagram



Basic Results Summary

**Network Results**

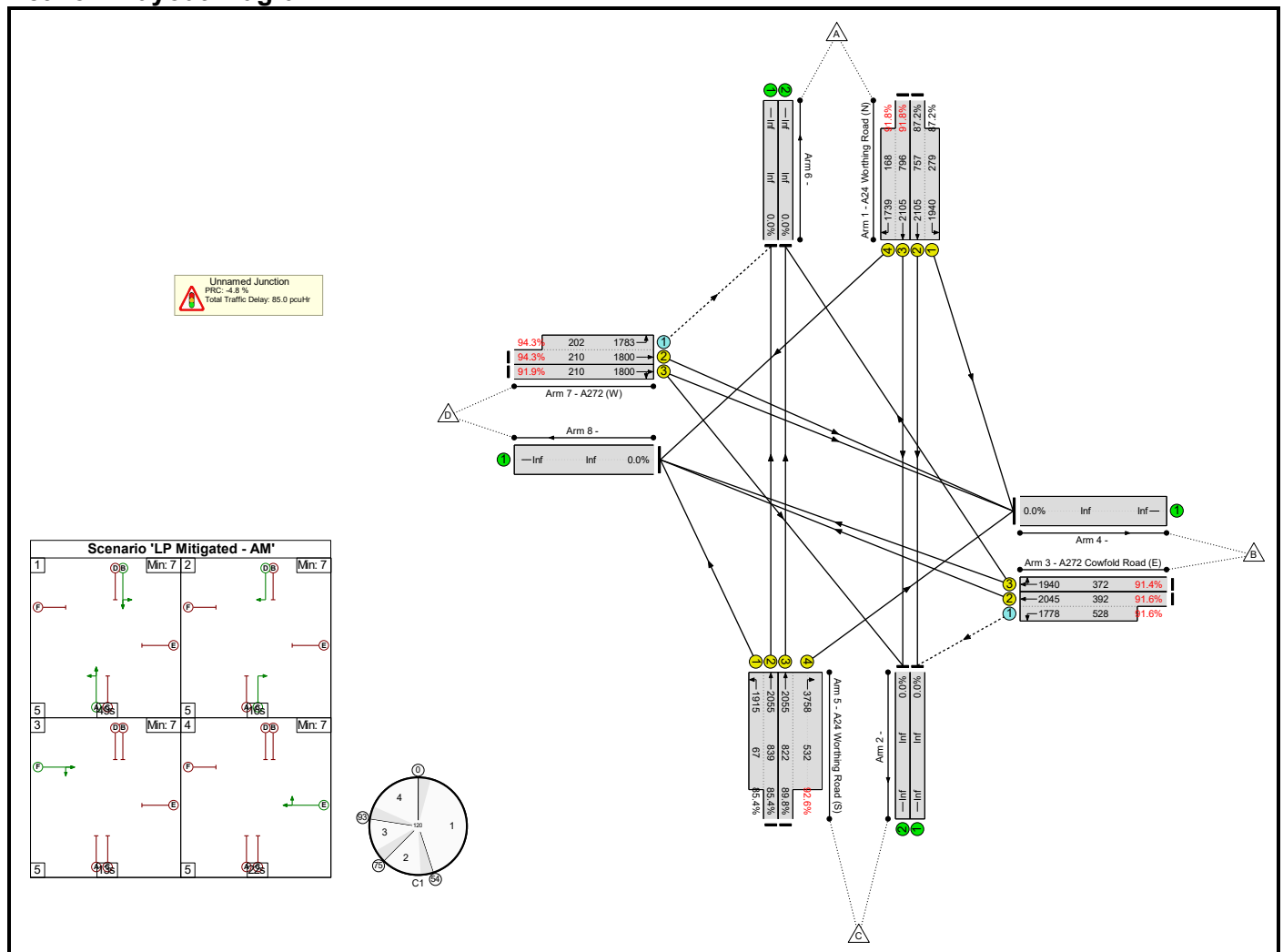
Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)	
<b>Network</b>	-	-	-		-	-	-	-	-	-	127.1%	234	1002	0	489.0	-	-	
<b>Unnamed Junction</b>	-	-	-		-	-	-	-	-	-	127.1%	234	1002	0	489.0	-	-	
1/2+1/1	A24 Worthing Road (N) Ahead	U	C		1	44	-	1293	2055:1915	790+235	126.2 : 126.2%	-	-	-	158.4	441.0	179.5	
1/3+1/4	A24 Worthing Road (N) Ahead Right	U	C F		1	44:8	-	1202	2055:1842	850+166	117.2 : 124.3%	-	-	-	114.8	343.9	135.2	
2/1	Left	O	-		-	-	-	501	1641	649	67.7%	48	391	0	1.7	13.8	6.1	
2/2	Ahead	U	D		1	47	-	1003	2055	986	80.8%	-	-	-	2.2	9.8	2.4	
2/3	Ahead	U	D		1	47	-	1002	2055	986	86.7%	-	-	-	3.2	13.6	3.4	
4/2+4/1	A272 Cowfold Road (E) Left Right	U+O	G -		1	21	-	770	1753:1778	386+241	122.9 : 122.9%	142	154	0	82.6	386.4	90.0	
4/3	A272 Cowfold Road (E) Right	U	G		1	21	-	166	1569	345	48.1%	-	-	-	2.0	44.0	4.5	
6/2+6/1	A24 Worthing Road (S) Ahead	U	A		1	49	-	666	2055:1915	1011+70	61.6 : 61.6%	-	-	-	4.1	21.9	13.1	
6/3+6/4	A24 Worthing Road (S) Right Ahead	U	A E		1	49:15	-	1004	2055:1879	510+301	121.9 : 127.1%	-	-	-	110.1	394.9	112.7	
7/1	Left	O	-		-	-	-	517	1760	1403	30.6%	0	429	0	0.4	3.6	10.6	
7/2	Ahead	U	B		1	59	-	706	2055	1233	57.3%	-	-	-	1.6	8.3	15.6	
7/3	Ahead	U	B		1	59	-	705	2055	1233	57.2%	-	-	-	1.6	8.3	15.6	
9/2+9/1	A272 (W) Right Left	U+O	H -		1	14	-	289	1613:1760	242+80	89.7 : 89.7%	43	29	0	6.1	75.9	9.5	
C1					PRC for Signalled Lanes (%): -41.2			Total Delay for Signalled Lanes (pcuHr): 486.87			Cycle Time (s): 100							
					PRC Over All Lanes (%): -41.2			Total Delay Over All Lanes(pcuHr): 488.99										

Basic Results Summary  
**Basic Results Summary**

**User and Project Details**

<b>Project:</b>	
<b>Title:</b>	
<b>Location:</b>	
<b>Additional detail:</b>	
<b>File name:</b>	BuckBarn Crossroads Junction 221118 - width.lsg3x
<b>Author:</b>	
<b>Company:</b>	
<b>Address:</b>	

**Scenario 1: 'LP Mitigated - AM' (FG3: 'LP Case Mitigated AM', Plan 1: 'Buckbarn')**  
**Network Layout Diagram**



Basic Results Summary

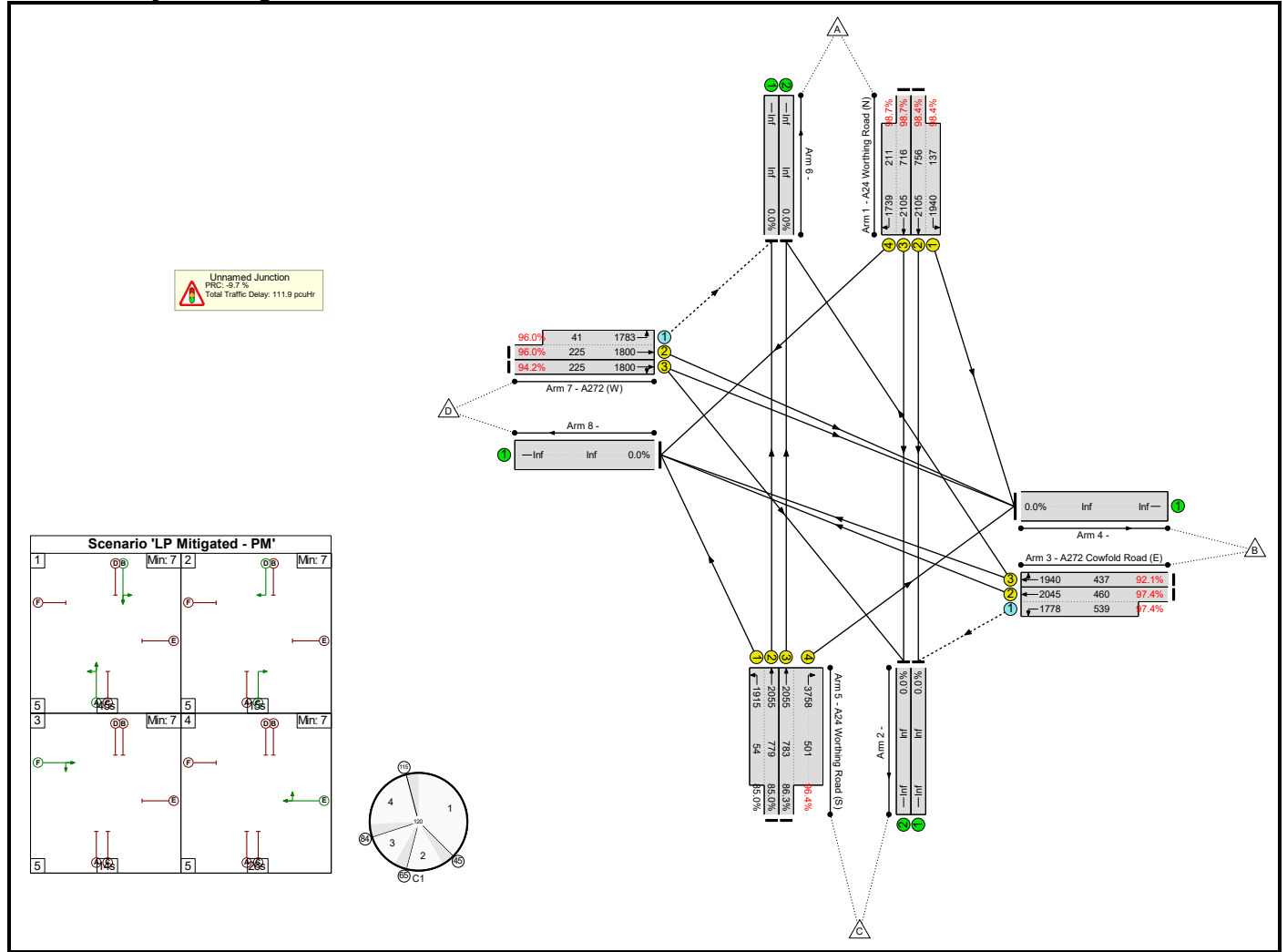
**Network Results**

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)	
<b>Network</b>	-	-	-		-	-	-	-	-	-	<b>94.3%</b>	<b>0</b>	<b>674</b>	<b>0</b>	<b>85.0</b>	-	-	
<b>Unnamed Junction</b>	-	-	-		-	-	-	-	-	-	<b>94.3%</b>	<b>0</b>	<b>674</b>	<b>0</b>	<b>85.0</b>	-	-	
1/2+1/1	A24 Worthing Road (N) Ahead Left	U	B		1	49	-	903	2105:1940	757+279	87.2 : 87.2%	-	-	-	10.5	41.7	24.7	
1/3+1/4	A24 Worthing Road (N) Ahead Right	U	B D		1	49:16	-	885	2105:1739	796+168	91.8 : 91.8%	-	-	-	13.5	54.8	29.3	
3/2+3/1	A272 Cowfold Road (E) Left Ahead	U+O	E -		1	22	-	843	2045:1778	392+528	91.6 : 91.6%	0	484	0	9.6	40.9	16.5	
3/3	A272 Cowfold Road (E) Right Ahead	U	E		1	22	-	340	1940	372	91.4%	-	-	-	8.7	92.2	15.3	
5/2+5/1	A24 Worthing Road (S) Ahead Left	U	A		1	49	-	773	2055:1915	839+67	85.4 : 85.4%	-	-	-	9.4	43.8	24.5	
5/3+5/4	A24 Worthing Road (S) Right Ahead	U	A C		1	49:16	-	1231	2055:3758	822+532	89.8 : 92.6%	-	-	-	18.1	53.0	27.0	
7/2+7/1	A272 (W) Ahead Left	U+O	F -		1	13	-	388	1800:1783	210+202	94.3 : 94.3%	0	190	0	8.5	78.7	12.1	
7/3	A272 (W) Right Ahead	U	F		1	13	-	193	1800	210	91.9%	-	-	-	6.7	125.1	10.2	
C1							PRC for Signalled Lanes (%):	-4.8	Total Delay for Signalled Lanes (pcuHr):			84.95	Cycle Time (s): 120					
							PRC Over All Lanes (%):	-4.8	Total Delay Over All Lanes(pcuHr):			84.95						

Basic Results Summary

Scenario 2: 'LP Mitigated - PM' (FG4: 'LP Case Mitigated PM', Plan 1: 'Buckbarn')

Network Layout Diagram





Basic Results Summary

**Network Results**

Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
<b>Network</b>	-	-	-		-	-	-	-	-	-	<b>98.7%</b>	<b>0</b>	<b>564</b>	<b>0</b>	<b>111.9</b>	-	-
<b>Unnamed Junction</b>	-	-	-		-	-	-	-	-	-	<b>98.7%</b>	<b>0</b>	<b>564</b>	<b>0</b>	<b>111.9</b>	-	-
1/2+1/1	A24 Worthing Road (N) Ahead Left	U	B		1	45	-	879	2105:1940	756+137	98.4 : 98.4%	-	-	-	20.3	83.0	38.0
1/3+1/4	A24 Worthing Road (N) Ahead Right	U	B D		1	45:15	-	915	2105:1739	716+211	98.7 : 98.7%	-	-	-	22.3	87.6	38.3
3/2+3/1	A272 Cowfold Road (E) Left Ahead	U+O	E -		1	26	-	973	2045:1778	460+539	97.4 : 97.4%	0	525	0	16.1	59.5	25.2
3/3	A272 Cowfold Road (E) Right Ahead	U	E		1	26	-	402	1940	437	92.1%	-	-	-	9.7	86.7	17.7
5/2+5/1	A24 Worthing Road (S) Ahead Left	U	A		1	45	-	708	2055:1915	779+54	85.0 : 85.0%	-	-	-	9.2	46.9	22.9
5/3+5/4	A24 Worthing Road (S) Right Ahead	U	A C		1	45:15	-	1159	2055:3758	783+501	86.3 : 96.4%	-	-	-	17.7	54.8	25.0
7/2+7/1	A272 (W) Ahead Left	U+O	F -		1	14	-	255	1800:1783	225+41	96.0 : 96.0%	0	39	0	8.9	125.5	12.9
7/3	A272 (W) Right Ahead	U	F		1	14	-	212	1800	225	94.2%	-	-	-	7.8	132.3	11.7
<p>C1                      PRC for Signalled Lanes (%): -9.7                      Total Delay for Signalled Lanes (pcuHr): 111.87                      Cycle Time (s): 120                      PRC Over All Lanes (%): -9.7                      Total Delay Over All Lanes(pcuHr): 111.87</p>																	