

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	75.9%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	75.9%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	39	-	-	459	1717	763	60.1%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	39	-	-	553	2055:1741	905+8	60.5 : 60.5%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	38:40	0	-	799	1890:1781	543+534	72.5 : 75.9%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	39	-	-	676	1905:1741	814+138	71.0 : 71.0%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	35	-	-	562	1870	748	75.1%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	35	-	-	172	1807	325	52.9%
5/1		U	N/A	N/A	-		-	-	-	-	1077	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	927	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	139	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	634	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	444	Inf	Inf	0.0%

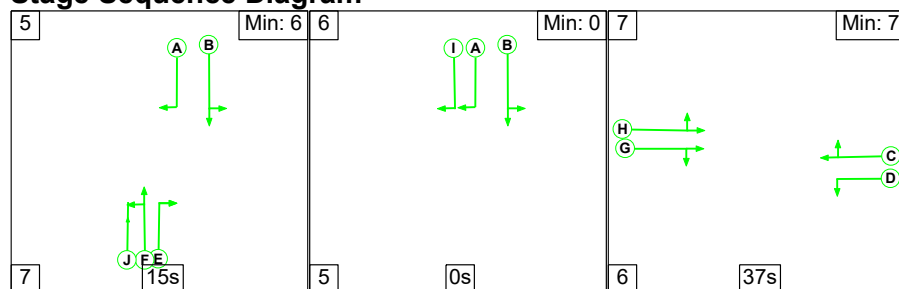
Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	595	14	14	17.4	6.2	1.0	24.6	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	595	14	14	17.4	6.2	1.0	24.6	-	-	-	-	
1/1	459	459	-	-	-	2.4	0.8	-	3.2	24.8	8.7	0.8	9.4	
1/2+1/3	553	553	5	0	0	2.9	0.8	0.0	3.7	24.0	10.4	0.8	11.2	
2/1+2/2	799	799	378	14	14	3.9	1.4	0.3	5.7	25.5	7.1	1.4	8.5	
3/2+3/1	676	676	41	0	0	3.6	1.2	0.1	4.9	26.2	11.4	1.2	12.6	
4/1	562	562	-	-	-	3.6	1.5	-	5.1	32.7	12.0	1.5	13.5	
4/2	172	172	172	0	0	0.9	0.6	0.6	2.1	43.3	2.8	0.6	3.4	
5/1	1077	1077	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	927	927	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	139	139	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	634	634	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	444	444	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 18.6 PRC Over All Lanes (%): 18.6 Total Delay for Signalled Lanes (pcuHr): 24.60 Total Delay Over All Lanes(pcuHr): 24.60 Cycle Time (s): 90														

Detailed Input Data And Results

Scenario 5: '2026 Base + Committed + Dev AM' (FG5: '2026 Base + Committed + Dev AM', Plan 2: 'Network Control Plan 2')

Stage Sequence Diagram



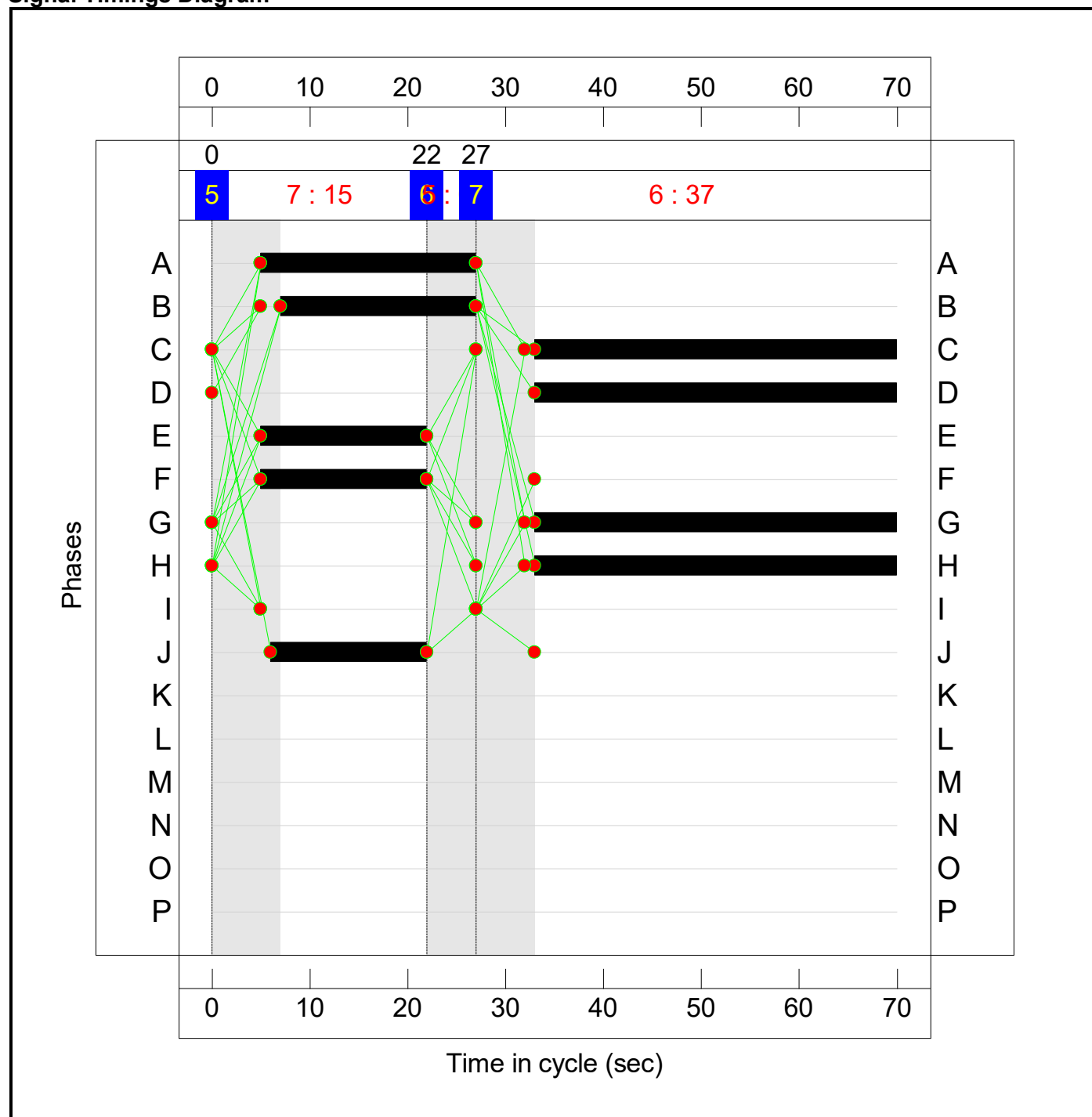
Stage Timings

Stage	5	6	7
Duration	15	0	37
Change Point	0	22	27

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	22	5	27
B	Ashby Road North Left Ahead	Traffic	20	7	27
C	A47 East Ahead Right	Traffic	37	33	0
D	A47 East Left	Traffic	37	33	0
E	Ashby Road South Right	Traffic	17	5	22
F	Ashby Road South Left Ahead	Traffic	17	5	22
G	A47 West Ahead Right	Traffic	37	33	0
H	A47 West Left Ahead	Traffic	37	33	0
I	Ashby Road North Right IGA	Ind. Arrow	0	27	27
J	Pedestrians across	Traffic	16	6	22
K		Pedestrian			
L		Pedestrian			
M		Pedestrian			
N		Pedestrian			
O		Pedestrian			
P		Pedestrian			

Signal Timings Diagram



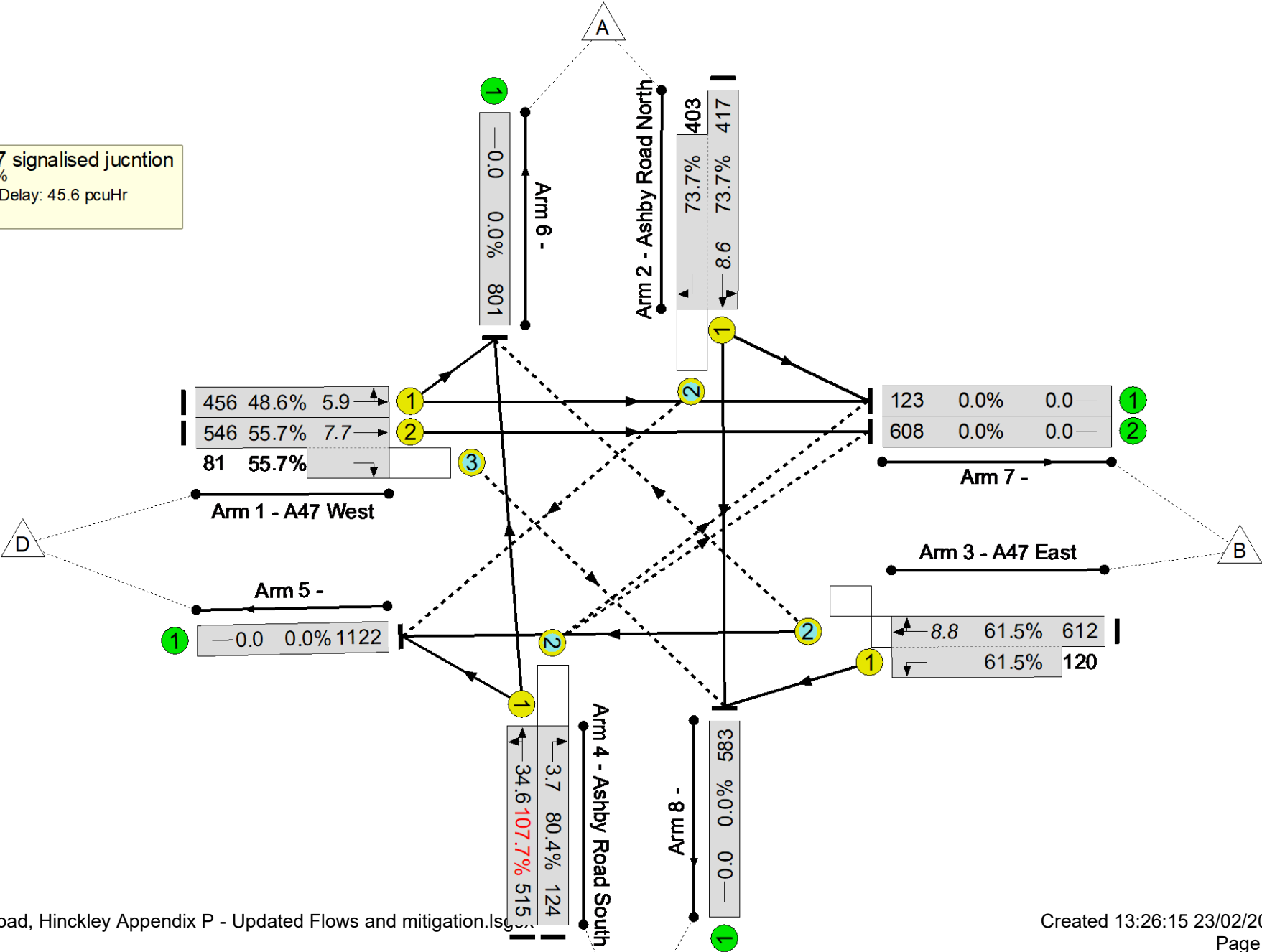
Lane Green Times

Junction: Ashby Road/A47 signalised junction					
Lane	Description	Type	Phases	Start Green	End Green
1/1	A47 West Left Ahead	U	H	33	0
1/2	A47 West Ahead	U	G	33	0
1/3	A47 West Right	O	G	33	0
2/1	Ashby Road North Left Ahead	U	B	7	27
2/2	Ashby Road North Right	O	A I	5	27
3/1	A47 East Left	U	D	33	0
3/2	A47 East Ahead Right	O	C	33	0
4/1	Ashby Road South Left Ahead	U	F	5	22
4/2	Ashby Road South Right	O	E	5	22

Ashby Road/A47 signalised junction



PRC: -19.7 %
Total Traffic Delay: 45.6 pcuHr



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	107.7%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	107.7%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	37	-	-	456	1727	938	48.6%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	37	-	-	627	2055:1741	980+145	55.7 : 55.7%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	20:22	0	-	820	1899:1781	566+547	73.7 : 73.7%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	37	-	-	732	1906:1741	996+195	61.5 : 61.5%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	17	-	-	515	1859	478	107.7%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	17	-	-	124	1807	154	80.4%
5/1		U	N/A	N/A	-		-	-	-	-	1133	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	827	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	123	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	608	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	583	Inf	Inf	0.0%

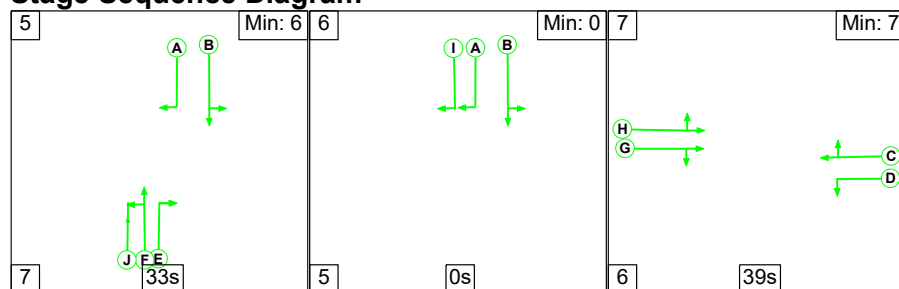
Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	565	36	45	15.6	29.0	0.9	45.6	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	565	36	45	15.6	29.0	0.9	45.6	-	-	-	-	
1/1	456	456	-	-	-	1.3	0.5	-	1.7	13.7	5.4	0.5	5.9	
1/2+1/3	627	627	80	0	1	1.7	0.6	0.2	2.5	14.6	7.1	0.6	7.7	
2/1+2/2	820	820	349	36	17	4.8	1.4	0.2	6.4	28.0	7.2	1.4	8.6	
3/2+3/1	732	732	37	0	1	2.1	0.8	0.1	2.9	14.5	8.0	0.8	8.8	
4/1	515	478	-	-	-	5.0	23.9	-	28.9	201.9	10.7	23.9	34.6	
4/2	124	124	98	0	26	0.7	1.8	0.5	3.1	89.4	1.9	1.8	3.7	
5/1	1122	1122	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	801	801	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	123	123	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	608	608	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	583	583	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): -19.7 PRC Over All Lanes (%): -19.7 Total Delay for Signalled Lanes (pcuHr): 45.56 Total Delay Over All Lanes(pcuHr): 45.56 Cycle Time (s): 70														

Detailed Input Data And Results

Scenario 6: '2026 Base + Committed + Dev PM' (FG6: '2026 Base + Committed + Dev PM', Plan 2: 'Network Control Plan 2')

Stage Sequence Diagram



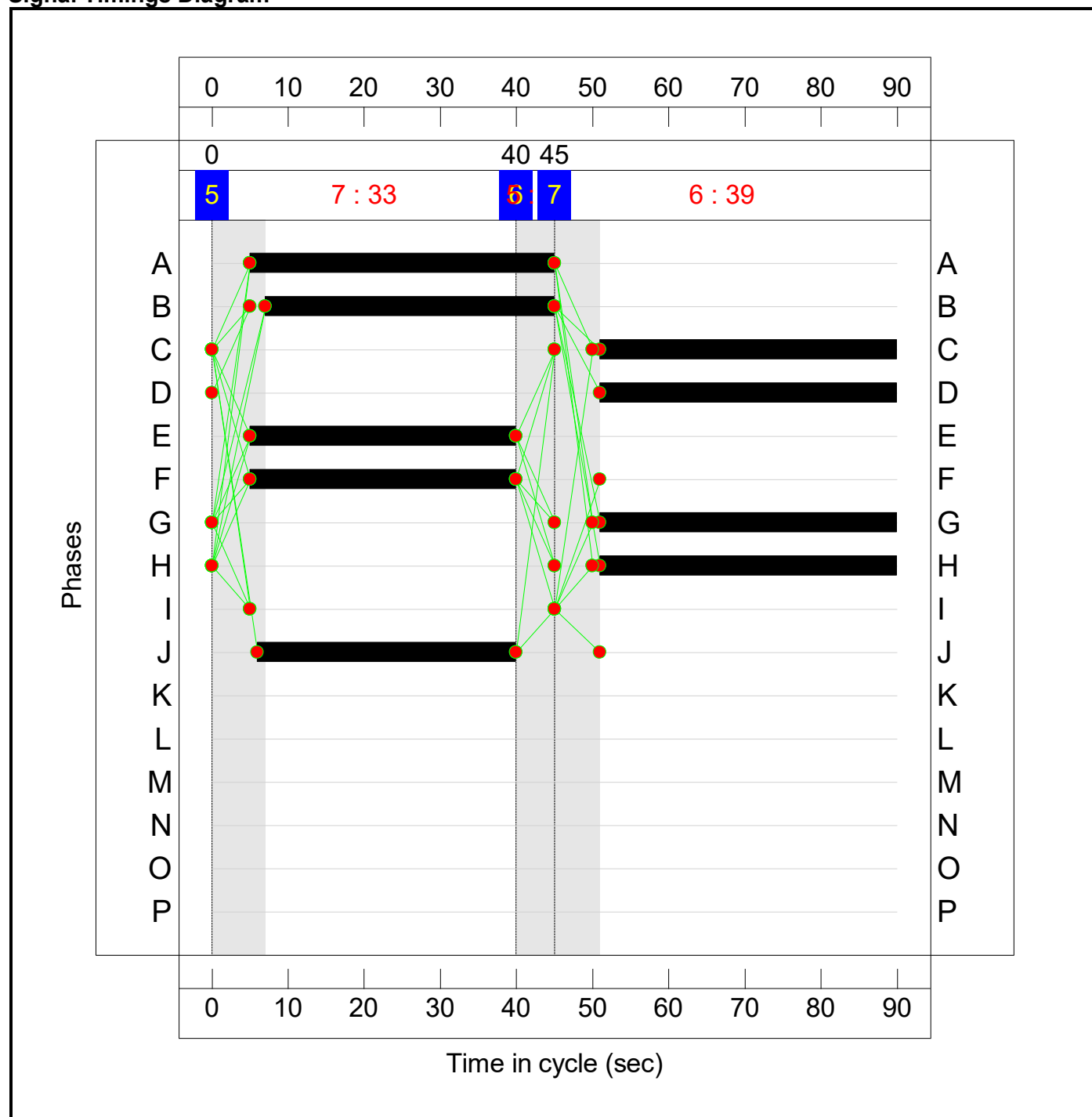
Stage Timings

Stage	5	6	7
Duration	33	0	39
Change Point	0	40	45

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	40	5	45
B	Ashby Road North Left Ahead	Traffic	38	7	45
C	A47 East Ahead Right	Traffic	39	51	0
D	A47 East Left	Traffic	39	51	0
E	Ashby Road South Right	Traffic	35	5	40
F	Ashby Road South Left Ahead	Traffic	35	5	40
G	A47 West Ahead Right	Traffic	39	51	0
H	A47 West Left Ahead	Traffic	39	51	0
I	Ashby Road North Right IGA	Ind. Arrow	0	45	45
J	Pedestrians across	Traffic	34	6	40
K		Pedestrian			
L		Pedestrian			
M		Pedestrian			
N		Pedestrian			
O		Pedestrian			
P		Pedestrian			

Signal Timings Diagram



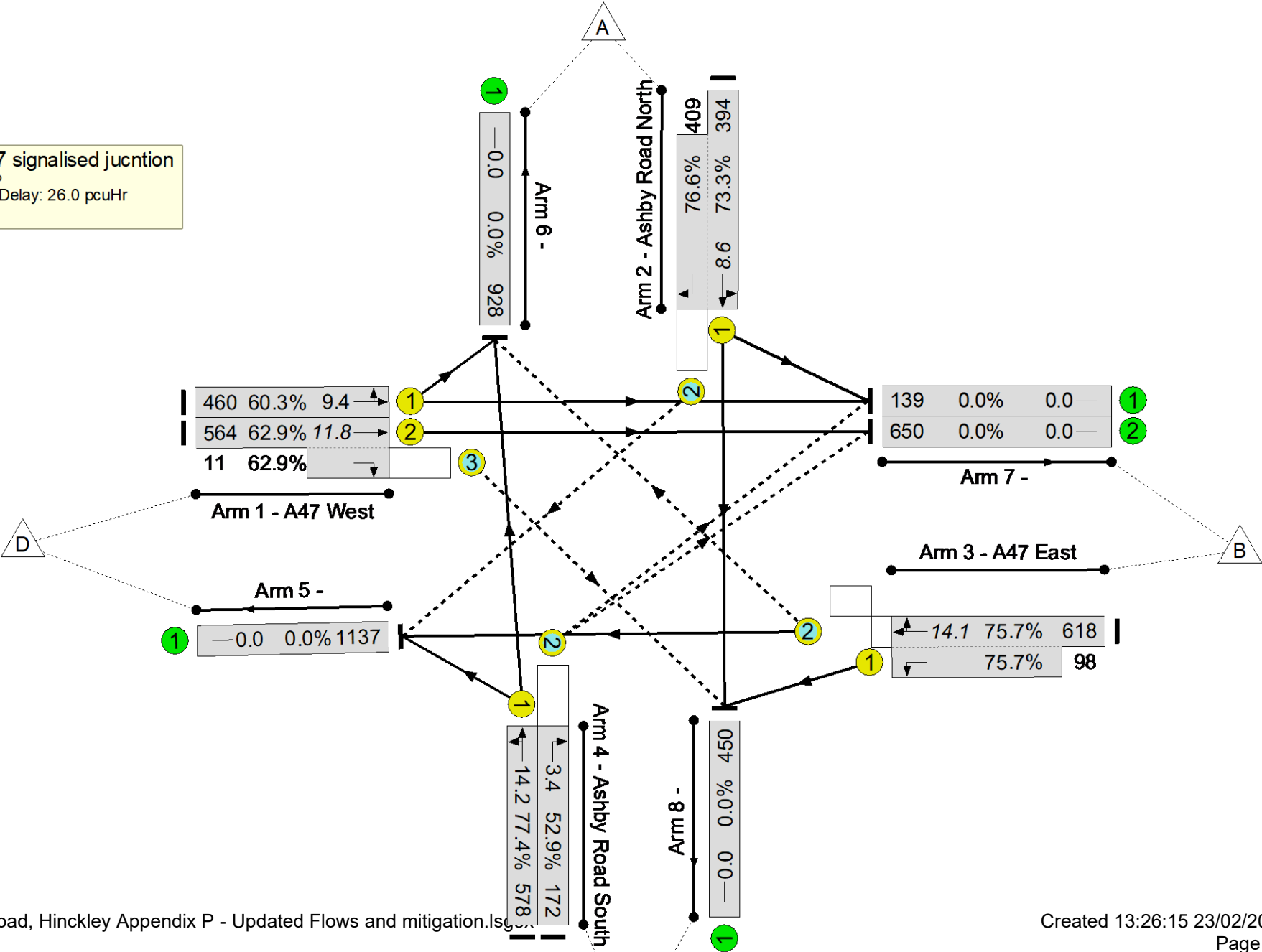
Lane Green Times

Junction: Ashby Road/A47 signalised junction					
Lane	Description	Type	Phases	Start Green	End Green
1/1	A47 West Left Ahead	U	H	51	0
1/2	A47 West Ahead	U	G	51	0
1/3	A47 West Right	O	G	51	0
2/1	Ashby Road North Left Ahead	U	B	7	45
2/2	Ashby Road North Right	O	A I	5	45
3/1	A47 East Left	U	D	51	0
3/2	A47 East Ahead Right	O	C	51	0
4/1	Ashby Road South Left Ahead	U	F	5	40
4/2	Ashby Road South Right	O	E	5	40

Ashby Road/A47 signalised junction



PRC: 16.2 %
Total Traffic Delay: 26.0 pcuHr



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	77.4%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	77.4%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	39	-	-	460	1717	763	60.3%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	39	-	-	575	2055:1741	897+17	62.9 : 62.9%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	38:40	0	-	803	1890:1781	537+534	73.3 : 76.6%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	39	-	-	716	1906:1741	817+129	75.7 : 75.7%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	35	-	-	578	1866	746	77.4%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	35	-	-	172	1807	325	52.9%
5/1		U	N/A	N/A	-		-	-	-	-	1137	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	928	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	139	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	650	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	450	Inf	Inf	0.0%

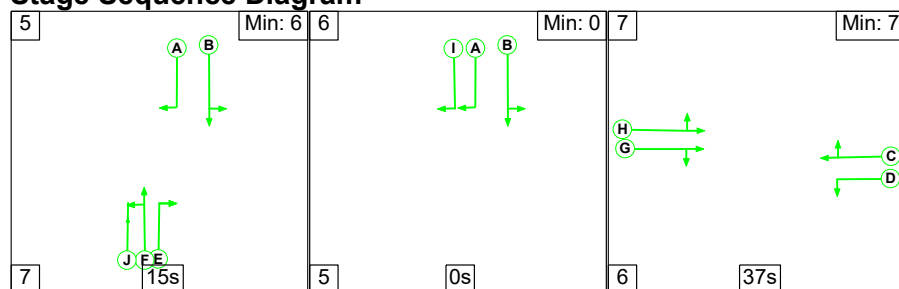
Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	602	17	14	18.0	6.9	1.1	26.0	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	602	17	14	18.0	6.9	1.1	26.0	-	-	-	-	
1/1	460	460	-	-	-	2.4	0.8	-	3.2	24.9	8.7	0.8	9.4	
1/2+1/3	575	575	11	0	0	3.1	0.8	0.0	3.9	24.6	10.9	0.8	11.8	
2/1+2/2	803	803	378	17	14	4.0	1.5	0.3	5.8	25.8	7.2	1.5	8.6	
3/2+3/1	716	716	41	0	0	3.9	1.5	0.1	5.6	28.0	12.5	1.5	14.1	
4/1	578	578	-	-	-	3.8	1.7	-	5.5	34.0	12.5	1.7	14.2	
4/2	172	172	172	0	0	0.9	0.6	0.6	2.1	43.3	2.8	0.6	3.4	
5/1	1137	1137	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	928	928	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	139	139	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	650	650	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	450	450	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 16.2 PRC Over All Lanes (%): 16.2 Total Delay for Signalled Lanes (pcuHr): 25.96 Total Delay Over All Lanes(pcuHr): 25.96 Cycle Time (s): 90														

Detailed Input Data And Results

Scenario 7: '2032 Base AM' (FG7: '2032 Base AM', Plan 2: 'Network Control Plan 2')

Stage Sequence Diagram



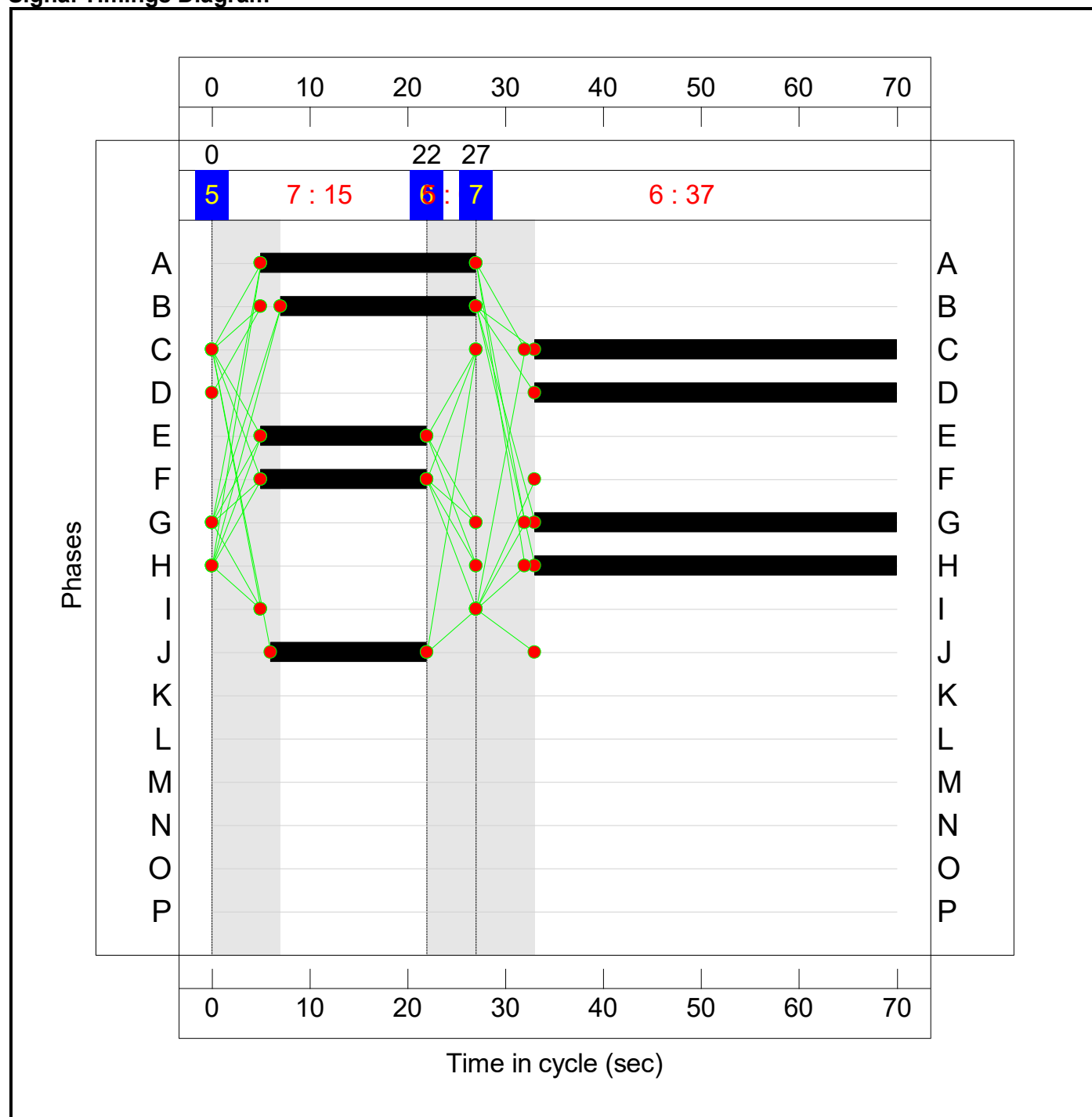
Stage Timings

Stage	5	6	7
Duration	15	0	37
Change Point	0	22	27

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	22	5	27
B	Ashby Road North Left Ahead	Traffic	20	7	27
C	A47 East Ahead Right	Traffic	37	33	0
D	A47 East Left	Traffic	37	33	0
E	Ashby Road South Right	Traffic	17	5	22
F	Ashby Road South Left Ahead	Traffic	17	5	22
G	A47 West Ahead Right	Traffic	37	33	0
H	A47 West Left Ahead	Traffic	37	33	0
I	Ashby Road North Right IGA	Ind. Arrow	0	27	27
J		Traffic	16	6	22
K	Pedestrians across	Pedestrian			
L	Pedestrians across	Pedestrian			
M	Pedestrians across	Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Signal Timings Diagram

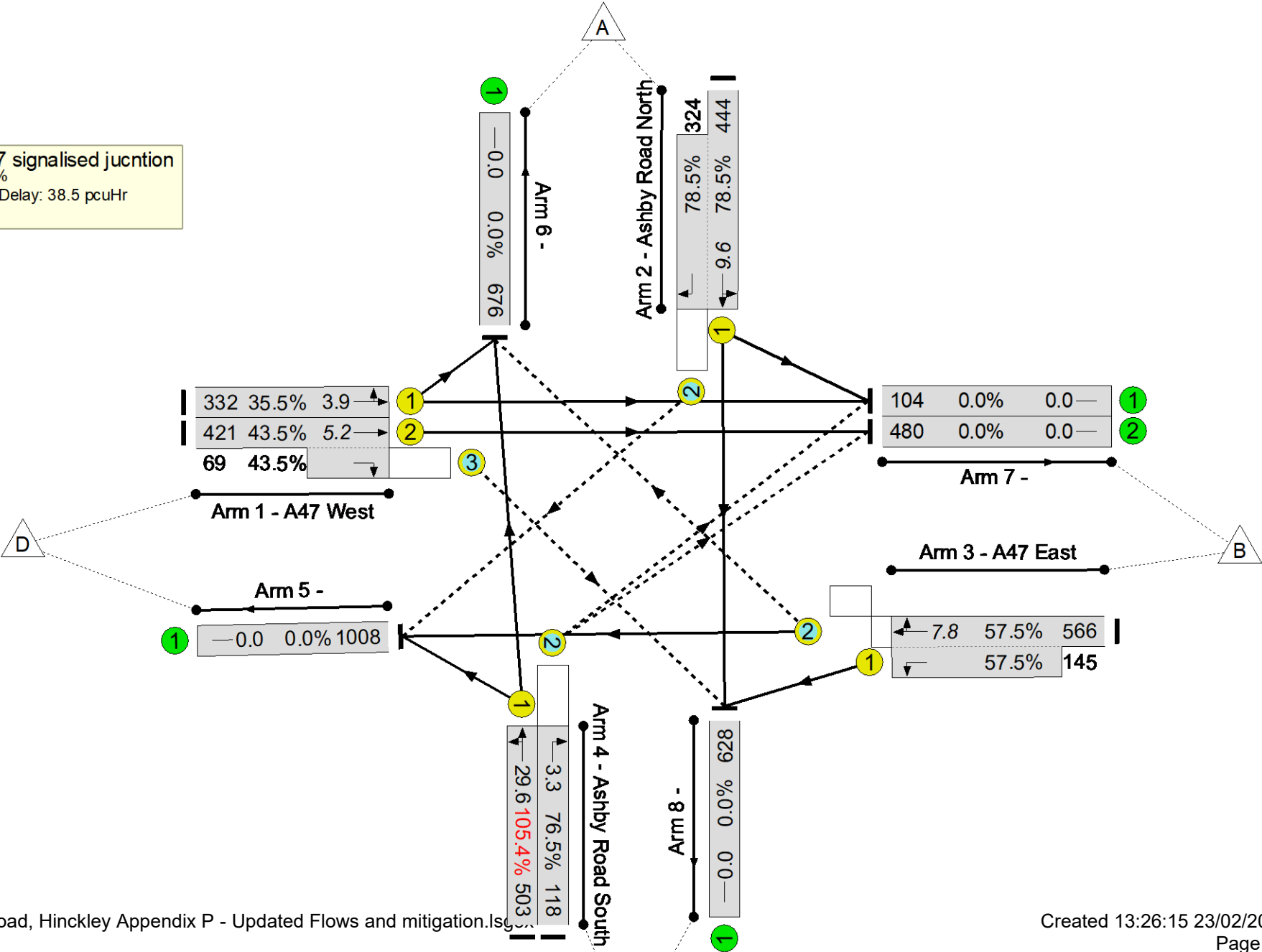


Lane Green Times

Junction: Ashby Road/A47 signalised junction					
Lane	Description	Type	Phases	Start Green	End Green
1/1	A47 West Left Ahead	U	H	33	0
1/2	A47 West Ahead	U	G	33	0
1/3	A47 West Right	O	G	33	0
2/1	Ashby Road North Left Ahead	U	B	7	27
2/2	Ashby Road North Right	O	A I	5	27
3/1	A47 East Left	U	D	33	0
3/2	A47 East Ahead Right	O	C	33	0
4/1	Ashby Road South Left Ahead	U	F	5	22
4/2	Ashby Road South Right	O	E	5	22

Ashby Road/A47 signalised junction

PRC: -17.1 %
Total Traffic Delay: 38.5 pcuHr

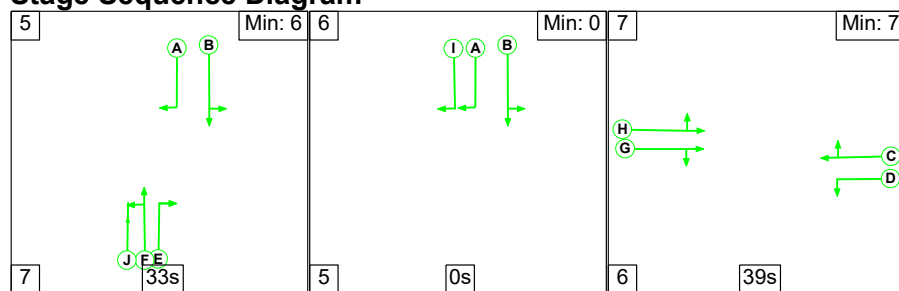


Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	105.4%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	105.4%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	37	-	-	332	1725	936	35.5%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	37	-	-	490	2055:1741	968+159	43.5 : 43.5%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	20:22	0	-	768	1902:1781	566+413	78.5 : 78.5%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	37	-	-	711	1906:1741	984+252	57.5 : 57.5%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	17	-	-	503	1856	477	105.4%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	17	-	-	118	1807	154	76.5%
5/1		U	N/A	N/A	-		-	-	-	-	1016	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	694	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	104	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	480	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	628	Inf	Inf	0.0%

Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	481	14	52	13.7	24.0	0.8	38.5	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	481	14	52	13.7	24.0	0.8	38.5	-	-	-	-	
1/1	332	332	-	-	-	0.8	0.3	-	1.1	12.0	3.6	0.3	3.9	
1/2+1/3	490	490	68	0	1	1.2	0.4	0.2	1.8	13.0	4.8	0.4	5.2	
2/1+2/2	768	768	296	14	14	4.5	1.8	0.1	6.4	29.9	7.8	1.8	9.6	
3/2+3/1	711	711	34	0	0	2.0	0.7	0.0	2.7	13.4	7.1	0.7	7.8	
4/1	503	477	-	-	-	4.5	19.4	-	23.9	171.0	10.3	19.4	29.6	
4/2	118	118	82	0	36	0.7	1.5	0.5	2.7	83.0	1.8	1.5	3.3	
5/1	1008	1008	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	676	676	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	104	104	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	480	480	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	628	628	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): -17.1 PRC Over All Lanes (%): -17.1 Total Delay for Signalled Lanes (pcuHr): 38.53 Total Delay Over All Lanes(pcuHr): 38.53 Cycle Time (s): 70														

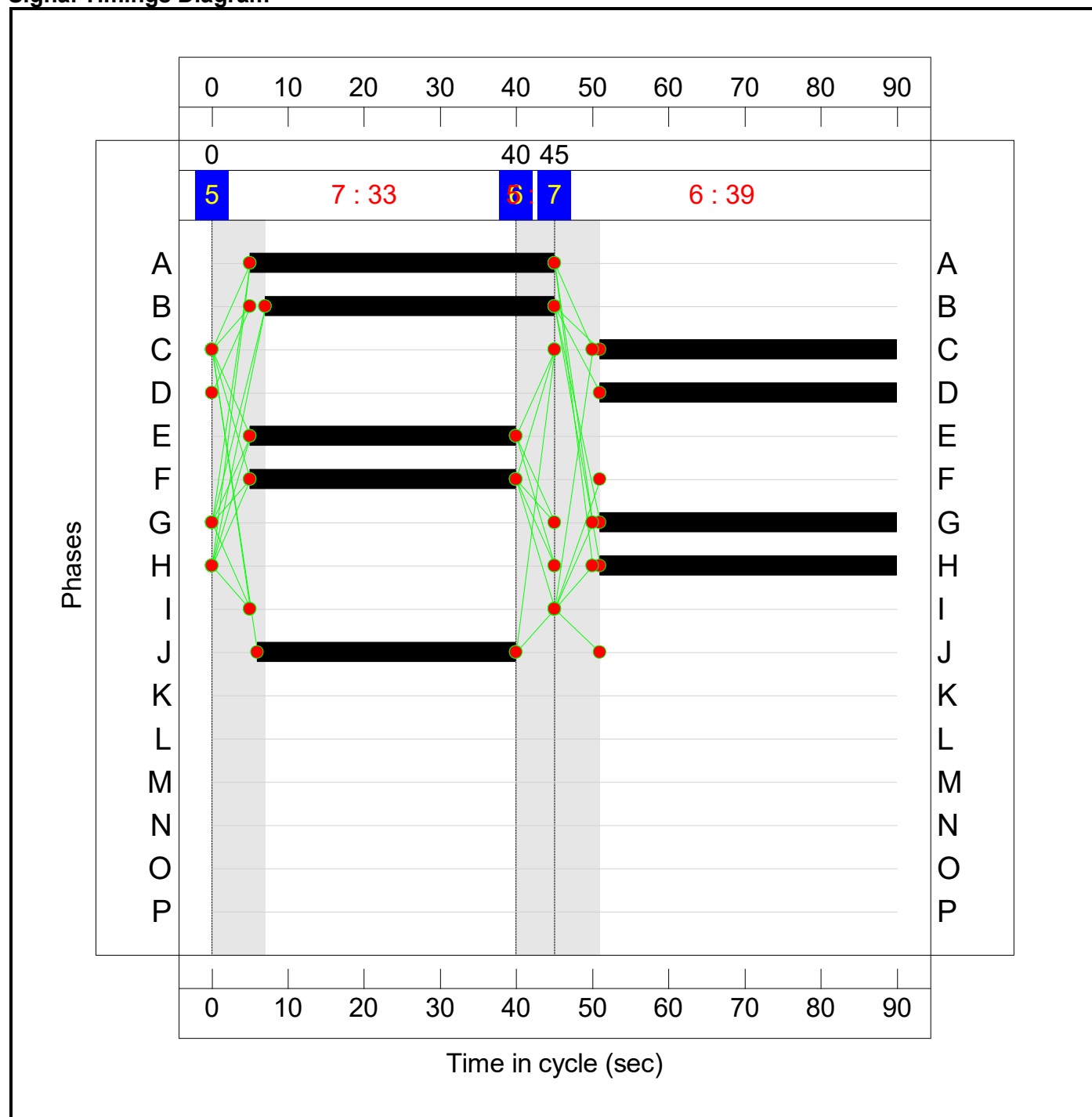
Stage Sequence Diagram**Stage Timings**

Stage	5	6	7
Duration	33	0	39
Change Point	0	40	45

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	40	5	45
B	Ashby Road North Left Ahead	Traffic	38	7	45
C	A47 East Ahead Right	Traffic	39	51	0
D	A47 East Left	Traffic	39	51	0
E	Ashby Road South Right	Traffic	35	5	40
F	Ashby Road South Left Ahead	Traffic	35	5	40
G	A47 West Ahead Right	Traffic	39	51	0
H	A47 West Left Ahead	Traffic	39	51	0
I	Ashby Road North Right IGA	Ind. Arrow	0	45	45
J		Traffic	34	6	40
K	Pedestrians across	Pedestrian			
L	Pedestrians across	Pedestrian			
M	Pedestrians across	Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Signal Timings Diagram



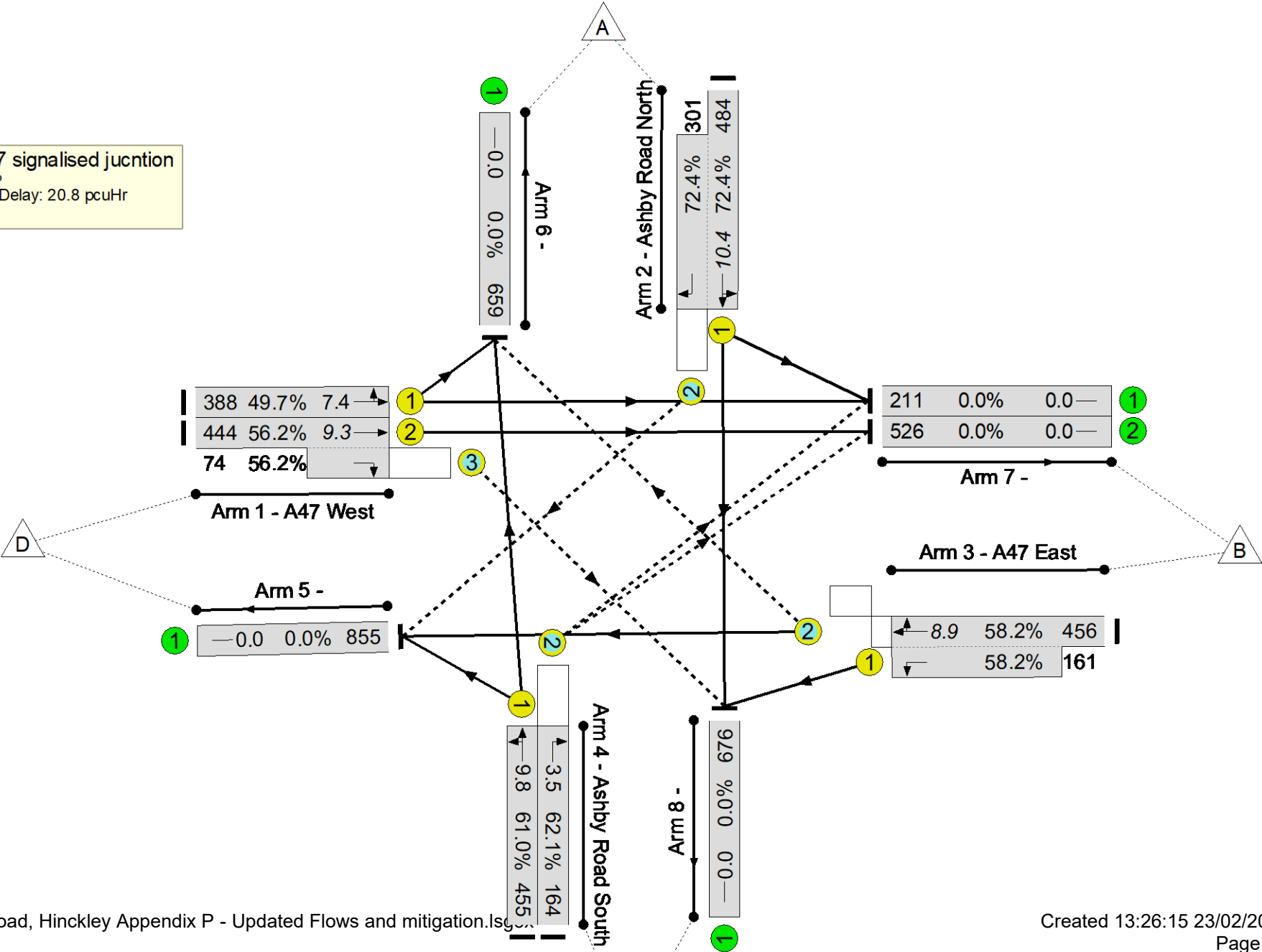
Lane Green Times

Junction: Ashby Road/A47 signalised junction					
Lane	Description	Type	Phases	Start Green	End Green
1/1	A47 West Left Ahead	U	H	51	0
1/2	A47 West Ahead	U	G	51	0
1/3	A47 West Right	O	G	51	0
2/1	Ashby Road North Left Ahead	U	B	7	45
2/2	Ashby Road North Right	O	A I	5	45
3/1	A47 East Left	U	D	51	0
3/2	A47 East Ahead Right	O	C	51	0
4/1	Ashby Road South Left Ahead	U	F	5	40
4/2	Ashby Road South Right	O	E	5	40

Ashby Road/A47 signalised junction



PRC: 24.3 %
Total Traffic Delay: 20.8 pcuHr



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	72.4%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	72.4%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	39	-	-	388	1757	781	49.7%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	39	-	-	518	2055:1741	790+132	56.2 : 56.2%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	38:40	0	-	785	1898:1781	668+416	72.4 : 72.4%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	39	-	-	617	1907:1741	783+277	58.2 : 58.2%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	35	-	-	455	1865	746	61.0%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	35	-	-	164	1807	264	62.1%
5/1		U	N/A	N/A	-		-	-	-	-	855	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	659	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	211	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	526	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	676	Inf	Inf	0.0%

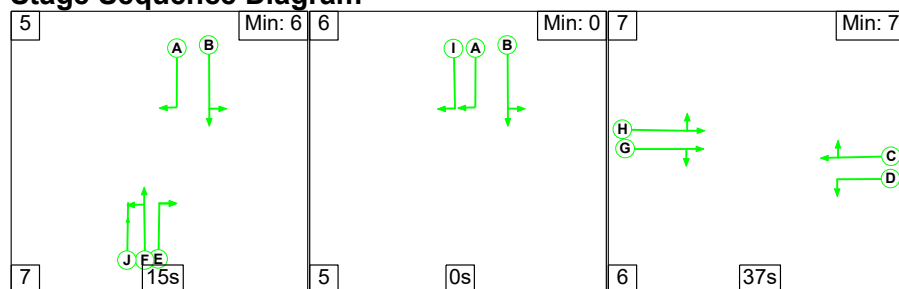
Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	543	10	11	15.0	4.7	1.1	20.8	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	543	10	11	15.0	4.7	1.1	20.8	-	-	-	-	
1/1	388	388	-	-	-	1.9	0.5	-	2.4	22.4	6.9	0.5	7.4	
1/2+1/3	518	518	73	0	1	2.6	0.6	0.2	3.4	23.7	8.7	0.6	9.3	
2/1+2/2	785	785	281	10	10	4.0	1.3	0.1	5.3	24.4	9.1	1.3	10.4	
3/2+3/1	617	617	25	0	0	3.0	0.7	0.0	3.7	21.8	8.2	0.7	8.9	
4/1	455	455	-	-	-	2.7	0.8	-	3.5	27.6	9.0	0.8	9.8	
4/2	164	164	164	0	0	0.9	0.8	0.8	2.4	53.6	2.7	0.8	3.5	
5/1	855	855	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	659	659	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	211	211	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	526	526	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	676	676	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 24.3 PRC Over All Lanes (%): 24.3 Total Delay for Signalled Lanes (pcuHr): 20.81 Total Delay Over All Lanes(pcuHr): 20.81 Cycle Time (s): 90														

Detailed Input Data And Results

Scenario 9: '2032 Base + Committed AM' (FG9: '2032 Base + Committed AM', Plan 2: 'Network Control Plan 2')

Stage Sequence Diagram



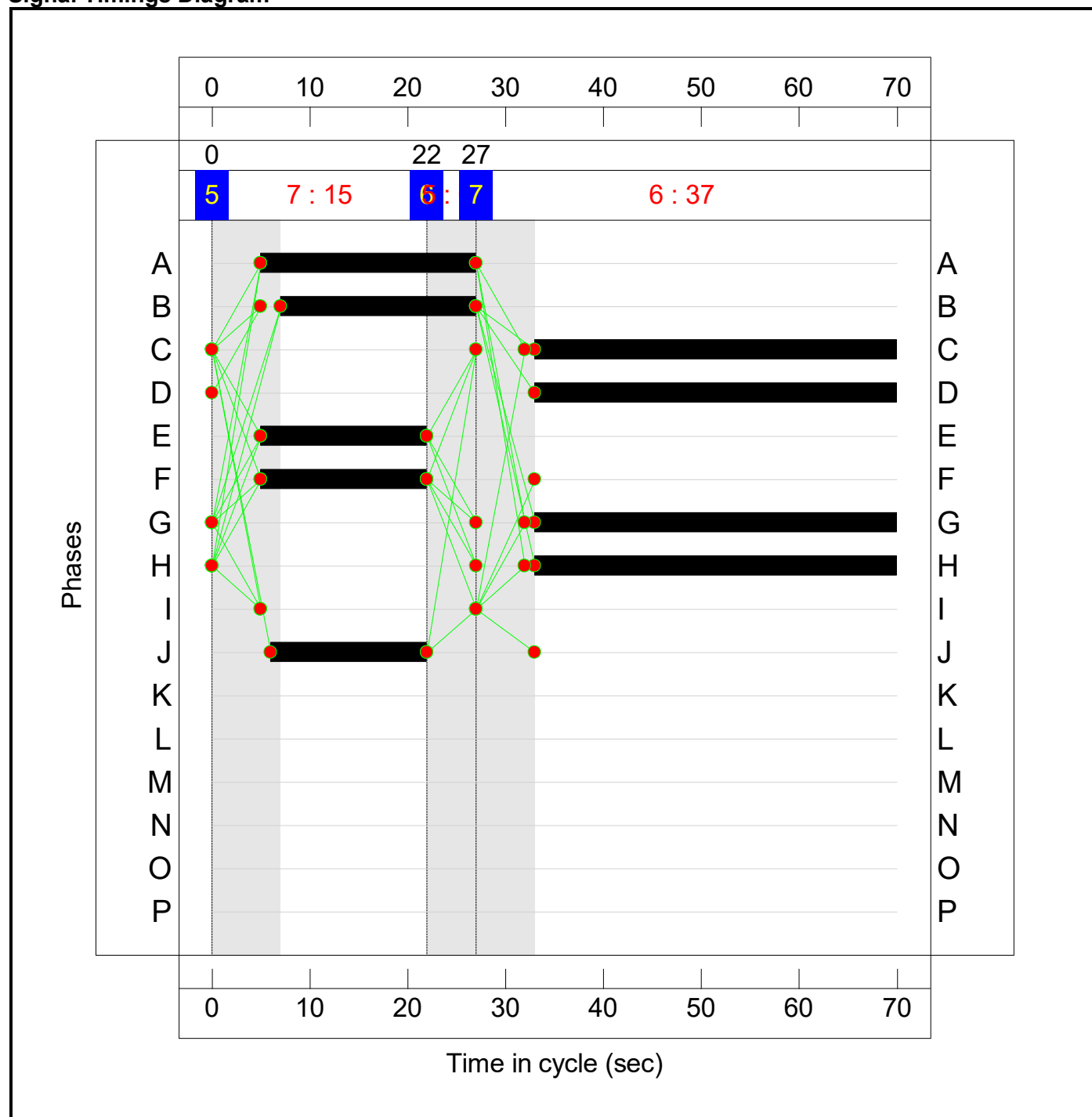
Stage Timings

Stage	5	6	7
Duration	15	0	37
Change Point	0	22	27

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	22	5	27
B	Ashby Road North Left Ahead	Traffic	20	7	27
C	A47 East Ahead Right	Traffic	37	33	0
D	A47 East Left	Traffic	37	33	0
E	Ashby Road South Right	Traffic	17	5	22
F	Ashby Road South Left Ahead	Traffic	17	5	22
G	A47 West Ahead Right	Traffic	37	33	0
H	A47 West Left Ahead	Traffic	37	33	0
I	Ashby Road North Right IGA	Ind. Arrow	0	27	27
J		Traffic	16	6	22
K	Pedestrians across	Pedestrian			
L	Pedestrians across	Pedestrian			
M	Pedestrians across	Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Signal Timings Diagram



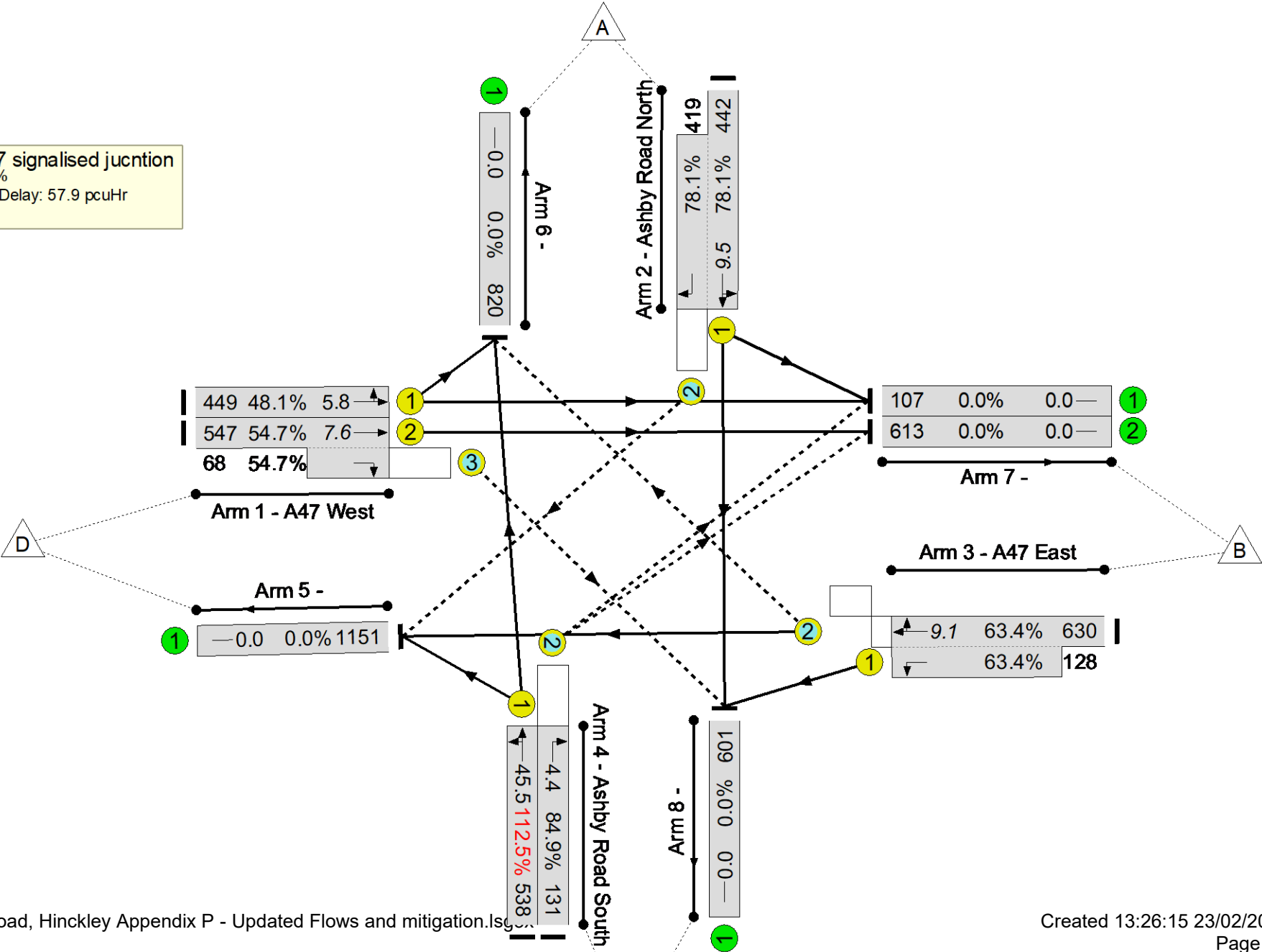
Lane Green Times

Junction: Ashby Road/A47 signalised junction					
Lane	Description	Type	Phases	Start Green	End Green
1/1	A47 West Left Ahead	U	H	33	0
1/2	A47 West Ahead	U	G	33	0
1/3	A47 West Right	O	G	33	0
2/1	Ashby Road North Left Ahead	U	B	7	27
2/2	Ashby Road North Right	O	A I	5	27
3/1	A47 East Left	U	D	33	0
3/2	A47 East Ahead Right	O	C	33	0
4/1	Ashby Road South Left Ahead	U	F	5	22
4/2	Ashby Road South Right	O	E	5	22

Ashby Road/A47 signalised junction



PRC: -25.0 %
Total Traffic Delay: 57.9 pcuHr



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	112.5%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	112.5%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	37	-	-	449	1719	933	48.1%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	37	-	-	615	2055:1741	999+124	54.7 : 54.7%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	20:22	0	-	861	1899:1781	566+536	78.1 : 78.1%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	37	-	-	758	1906:1741	994+202	63.4 : 63.4%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	17	-	-	538	1860	478	112.5%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	17	-	-	131	1807	154	84.9%
5/1		U	N/A	N/A	-		-	-	-	-	1169	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	862	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	107	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	613	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	601	Inf	Inf	0.0%

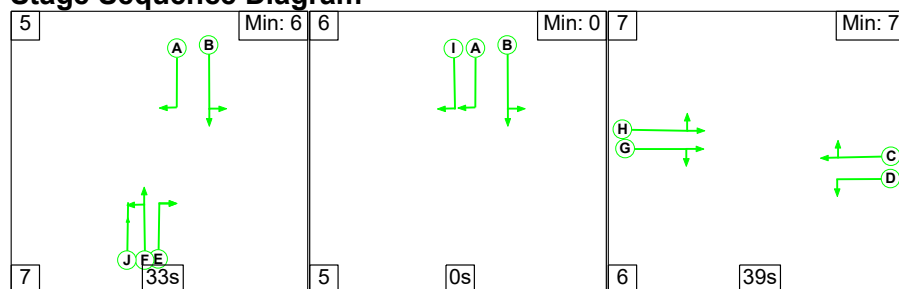
Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	538	52	68	17.0	39.9	1.0	57.9	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	538	52	68	17.0	39.9	1.0	57.9	-	-	-	-	
1/1	449	449	-	-	-	1.2	0.5	-	1.7	13.6	5.4	0.5	5.8	
1/2+1/3	615	615	67	0	1	1.7	0.6	0.2	2.5	14.4	7.0	0.6	7.6	
2/1+2/2	861	861	349	52	18	5.1	1.8	0.2	7.1	29.7	7.7	1.8	9.5	
3/2+3/1	758	758	39	0	1	2.2	0.9	0.1	3.1	14.8	8.2	0.9	9.1	
4/1	538	478	-	-	-	6.0	33.8	-	39.8	266.2	11.6	33.8	45.5	
4/2	131	131	82	0	49	0.8	2.3	0.6	3.7	101.8	2.0	2.3	4.4	
5/1	1151	1151	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	820	820	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	107	107	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	613	613	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	601	601	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): -25.0 PRC Over All Lanes (%): -25.0 Total Delay for Signalled Lanes (pcuHr): 57.85 Total Delay Over All Lanes(pcuHr): 57.85 Cycle Time (s): 70														

Detailed Input Data And Results

Scenario 10: '2032 Base + Committed PM' (FG10: '2032 Base + Committed PM', Plan 2: 'Network Control Plan 2')

Stage Sequence Diagram



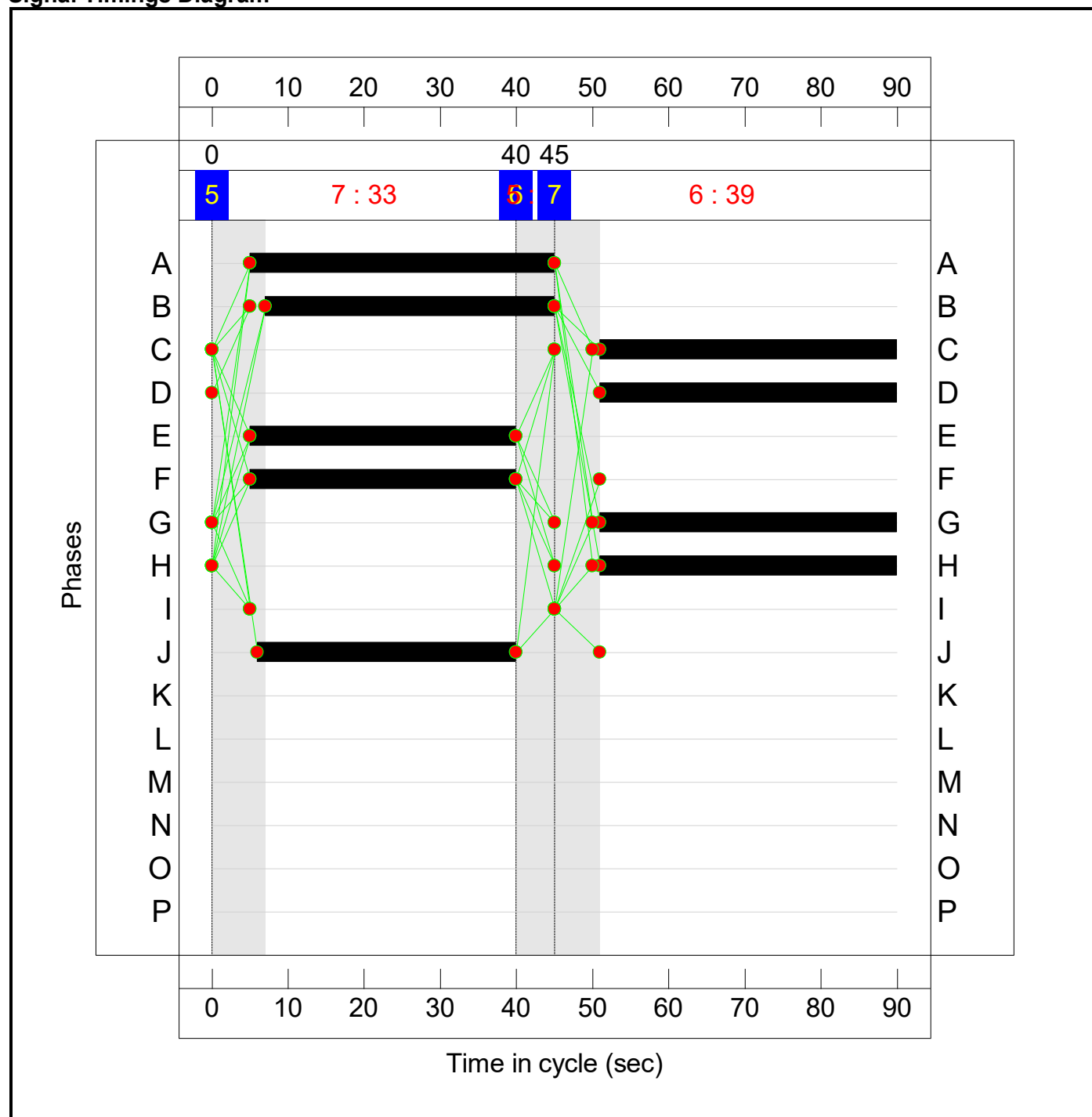
Stage Timings

Stage	5	6	7
Duration	33	0	39
Change Point	0	40	45

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	40	5	45
B	Ashby Road North Left Ahead	Traffic	38	7	45
C	A47 East Ahead Right	Traffic	39	51	0
D	A47 East Left	Traffic	39	51	0
E	Ashby Road South Right	Traffic	35	5	40
F	Ashby Road South Left Ahead	Traffic	35	5	40
G	A47 West Ahead Right	Traffic	39	51	0
H	A47 West Left Ahead	Traffic	39	51	0
I	Ashby Road North Right IGA	Ind. Arrow	0	45	45
J		Traffic	34	6	40
K	Pedestrians across	Pedestrian			
L	Pedestrians across	Pedestrian			
M	Pedestrians across	Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Signal Timings Diagram



Lane Green Times

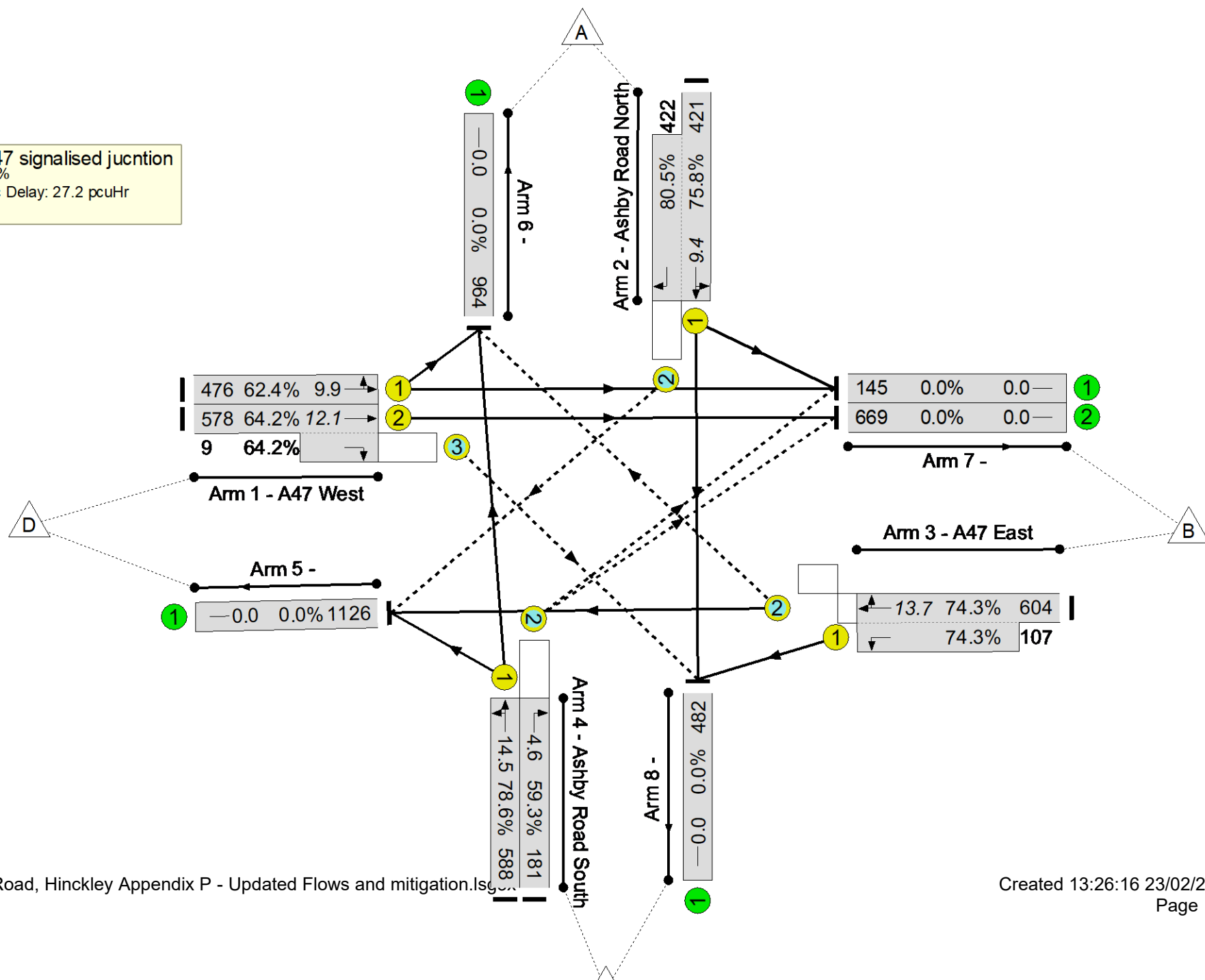
Junction: Ashby Road/A47 signalised junction					
Lane	Description	Type	Phases	Start Green	End Green
1/1	A47 West Left Ahead	U	H	51	0
1/2	A47 West Ahead	U	G	51	0
1/3	A47 West Right	O	G	51	0
2/1	Ashby Road North Left Ahead	U	B	7	45
2/2	Ashby Road North Right	O	A I	5	45
3/1	A47 East Left	U	D	51	0
3/2	A47 East Ahead Right	O	C	51	0
4/1	Ashby Road South Left Ahead	U	F	5	40
4/2	Ashby Road South Right	O	E	5	40

Ashby Road/A47 signalised junction



PRC: 11.8 %

Total Traffic Delay: 27.2 pcuHr



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	80.5%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	80.5%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	39	-	-	476	1717	763	62.4%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	39	-	-	587	2055:1741	900+14	64.2 : 64.2%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	38:40	0	-	843	1890:1781	555+524	75.8 : 80.5%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	39	-	-	711	1905:1741	813+144	74.3 : 74.3%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	35	-	-	588	1870	748	78.6%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	35	-	-	181	1807	305	59.3%
5/1		U	N/A	N/A	-		-	-	-	-	1126	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	964	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	145	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	669	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	482	Inf	Inf	0.0%

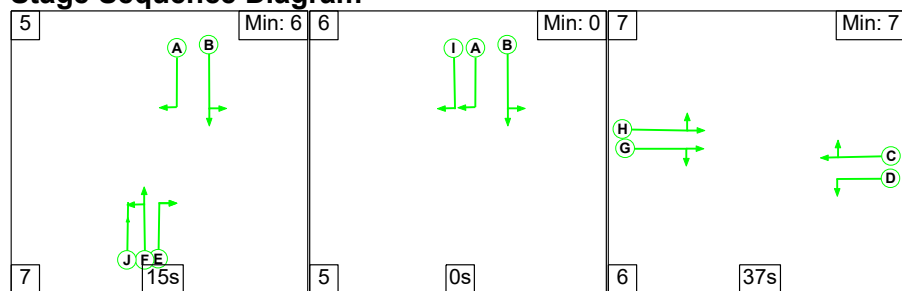
Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	600	39	15	18.6	7.4	1.1	27.2	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	600	39	15	18.6	7.4	1.1	27.2	-	-	-	-	
1/1	476	476	-	-	-	2.5	0.8	-	3.4	25.5	9.1	0.8	9.9	
1/2+1/3	587	587	9	0	0	3.2	0.9	0.0	4.1	24.9	11.2	0.9	12.1	
2/1+2/2	843	843	369	39	14	4.2	1.8	0.3	6.3	26.8	7.6	1.8	9.4	
3/2+3/1	711	711	42	0	0	3.9	1.4	0.1	5.4	27.4	12.2	1.4	13.7	
4/1	588	588	-	-	-	3.9	1.8	-	5.7	34.6	12.7	1.8	14.5	
4/2	181	181	181	0	0	1.0	0.7	0.7	2.4	47.7	3.9	0.7	4.6	
5/1	1126	1126	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	964	964	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	145	145	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	669	669	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	482	482	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 11.8 PRC Over All Lanes (%): 11.8 Total Delay for Signalled Lanes (pcuHr): 27.18 Total Delay Over All Lanes(pcuHr): 27.18 Cycle Time (s): 90														

Detailed Input Data And Results

Scenario 11: '2032 + Committed + Development AM' (FG11: '2032 + Committed + Development AM', Plan 2: 'Network Control Plan 2')

Stage Sequence Diagram



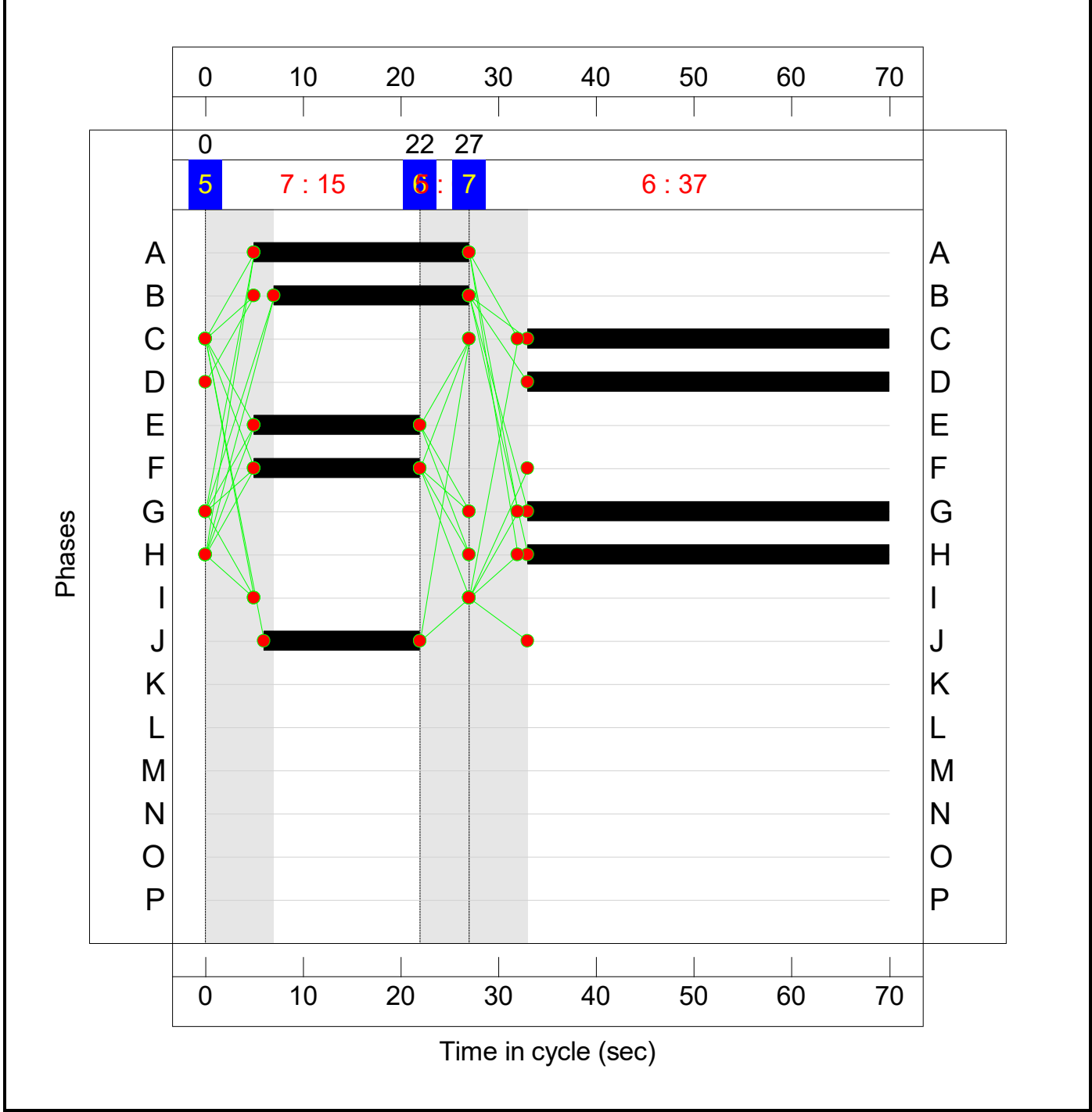
Stage Timings

Stage	5	6	7
Duration	15	0	37
Change Point	0	22	27

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	22	5	27
B	Ashby Road North Left Ahead	Traffic	20	7	27
C	A47 East Ahead Right	Traffic	37	33	0
D	A47 East Left	Traffic	37	33	0
E	Ashby Road South Right	Traffic	17	5	22
F	Ashby Road South Left Ahead	Traffic	17	5	22
G	A47 West Ahead Right	Traffic	37	33	0
H	A47 West Left Ahead	Traffic	37	33	0
I	Ashby Road North Right IGA	Ind. Arrow	0	27	27
J	Pedestrians across	Traffic	16	6	22
K		Pedestrian			
L		Pedestrian			
M		Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Signal Timings Diagram



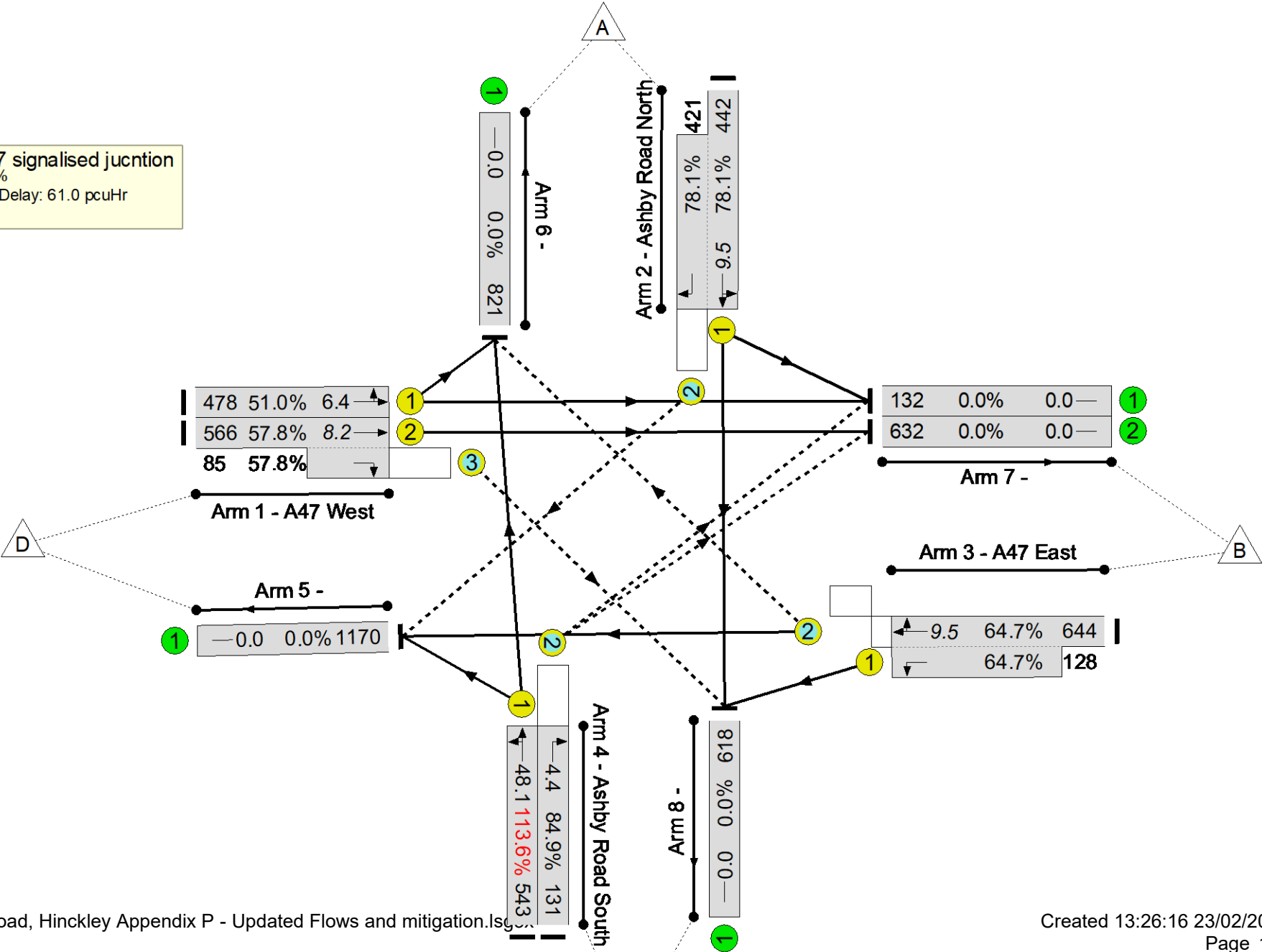
Lane Green Times

Junction: Ashby Road/A47 signalised junction					
Lane	Description	Type	Phases	Start Green	End Green
1/1	A47 West Left Ahead	U	H	33	0
1/2	A47 West Ahead	U	G	33	0
1/3	A47 West Right	O	G	33	0
2/1	Ashby Road North Left Ahead	U	B	7	27
2/2	Ashby Road North Right	O	A I	5	27
3/1	A47 East Left	U	D	33	0
3/2	A47 East Ahead Right	O	C	33	0
4/1	Ashby Road South Left Ahead	U	F	5	22
4/2	Ashby Road South Right	O	E	5	22

Ashby Road/A47 signalised junction



PRC: -26.2 %
Total Traffic Delay: 61.0 pcuHr



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	113.6%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	113.6%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	37	-	-	478	1728	938	51.0%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	37	-	-	651	2055:1741	979+147	57.8 : 57.8%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	20:22	0	-	863	1899:1781	566+539	78.1 : 78.1%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	37	-	-	772	1906:1741	995+198	64.7 : 64.7%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	17	-	-	543	1859	478	113.6%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	17	-	-	131	1807	154	84.9%
5/1		U	N/A	N/A	-		-	-	-	-	1190	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	866	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	132	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	632	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	618	Inf	Inf	0.0%

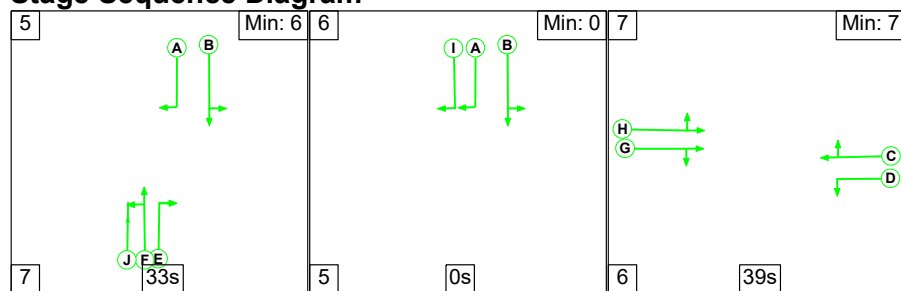
Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	555	54	69	17.5	42.5	1.1	61.0	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	555	54	69	17.5	42.5	1.1	61.0	-	-	-	-	
1/1	478	478	-	-	-	1.3	0.5	-	1.9	14.0	5.8	0.5	6.4	
1/2+1/3	651	651	84	0	1	1.8	0.7	0.2	2.7	15.1	7.5	0.7	8.2	
2/1+2/2	863	863	349	54	18	5.2	1.8	0.2	7.1	29.7	7.7	1.8	9.5	
3/2+3/1	772	772	39	0	1	2.3	0.9	0.1	3.2	15.1	8.6	0.9	9.5	
4/1	543	478	-	-	-	6.2	36.2	-	42.4	281.1	11.8	36.2	48.1	
4/2	131	131	82	0	49	0.8	2.3	0.6	3.7	101.8	2.0	2.3	4.4	
5/1	1170	1170	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	821	821	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	132	132	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	632	632	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	618	618	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): -26.2 PRC Over All Lanes (%): -26.2 Total Delay for Signalled Lanes (pcuHr): 61.04 Total Delay Over All Lanes(pcuHr): 61.04 Cycle Time (s): 70														

Detailed Input Data And Results

Scenario 12: '2032 + Committed + Development PM' (FG12: '2032 + Committed + Development PM', Plan 2: 'Network Control Plan 2')

Stage Sequence Diagram



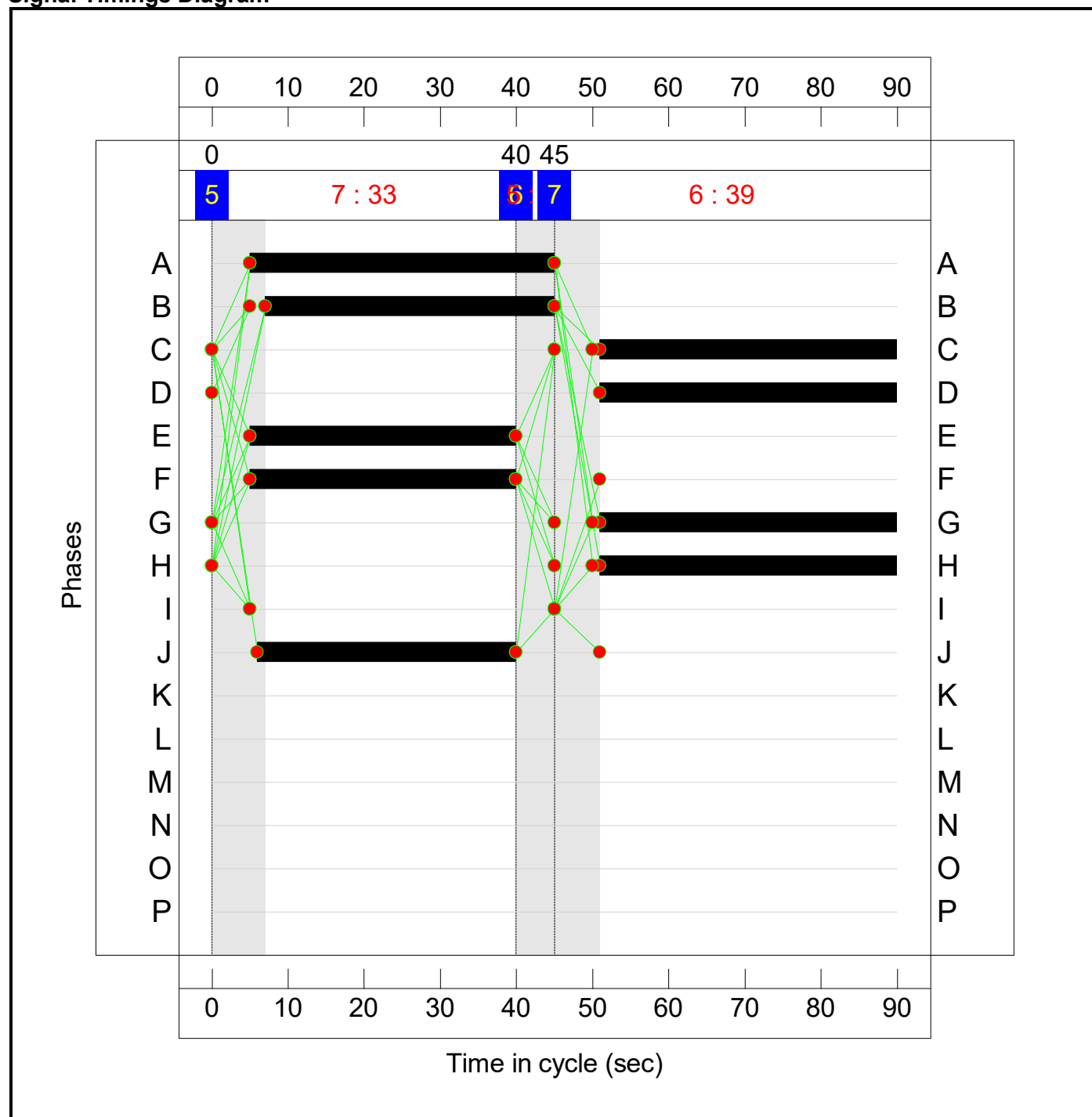
Stage Timings

Stage	5	6	7
Duration	33	0	39
Change Point	0	40	45

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	40	5	45
B	Ashby Road North Left Ahead	Traffic	38	7	45
C	A47 East Ahead Right	Traffic	39	51	0
D	A47 East Left	Traffic	39	51	0
E	Ashby Road South Right	Traffic	35	5	40
F	Ashby Road South Left Ahead	Traffic	35	5	40
G	A47 West Ahead Right	Traffic	39	51	0
H	A47 West Left Ahead	Traffic	39	51	0
I	Ashby Road North Right IGA	Ind. Arrow	0	45	45
J	Pedestrians across	Traffic	34	6	40
K		Pedestrian			
L		Pedestrian			
M		Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Signal Timings Diagram



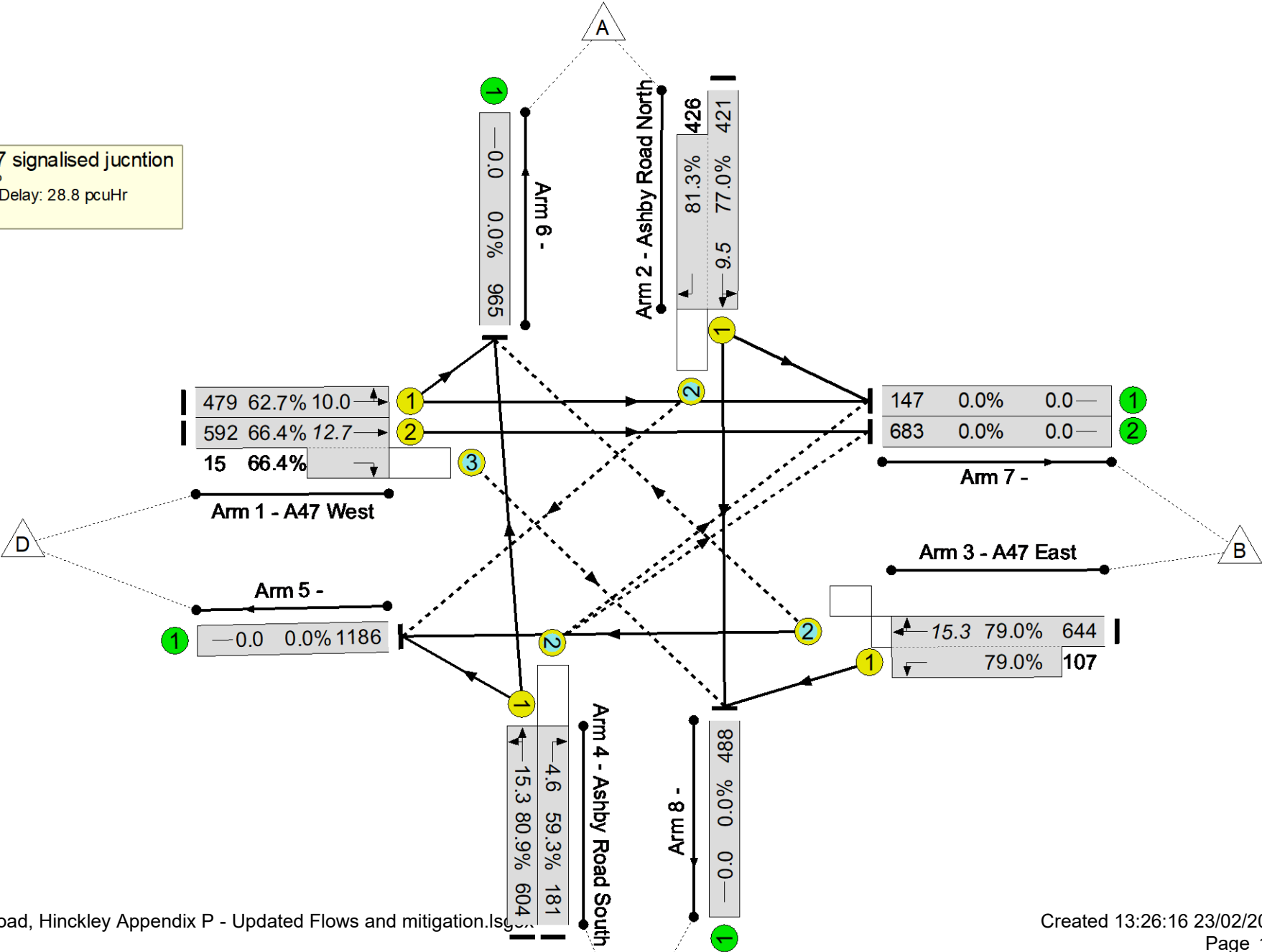
Lane Green Times

Junction: Ashby Road/A47 signalised junction					
Lane	Description	Type	Phases	Start Green	End Green
1/1	A47 West Left Ahead	U	H	51	0
1/2	A47 West Ahead	U	G	51	0
1/3	A47 West Right	O	G	51	0
2/1	Ashby Road North Left Ahead	U	B	7	45
2/2	Ashby Road North Right	O	A I	5	45
3/1	A47 East Left	U	D	51	0
3/2	A47 East Ahead Right	O	C	51	0
4/1	Ashby Road South Left Ahead	U	F	5	40
4/2	Ashby Road South Right	O	E	5	40

Ashby Road/A47 signalised junction



PRC: 10.8 %
Total Traffic Delay: 28.8 pcuHr



Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	81.3%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	81.3%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	39	-	-	479	1718	764	62.7%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	39	-	-	607	2055:1741	892+23	66.4 : 66.4%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	38:40	0	-	847	1890:1781	547+524	77.0 : 81.3%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	39	-	-	751	1906:1741	815+135	79.0 : 79.0%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	35	-	-	604	1866	746	80.9%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	35	-	-	181	1807	305	59.3%
5/1		U	N/A	N/A	-		-	-	-	-	1186	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	965	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	147	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	683	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	488	Inf	Inf	0.0%

Detailed Input Data And Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	606	43	15	19.3	8.3	1.2	28.8	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	606	43	15	19.3	8.3	1.2	28.8	-	-	-	-	
1/1	479	479	-	-	-	2.6	0.8	-	3.4	25.6	9.2	0.8	10.0	
1/2+1/3	607	607	15	0	0	3.3	1.0	0.0	4.3	25.6	11.7	1.0	12.7	
2/1+2/2	847	847	369	43	14	4.2	1.9	0.3	6.4	27.4	7.6	1.9	9.5	
3/2+3/1	751	751	42	0	0	4.2	1.8	0.1	6.2	29.6	13.4	1.8	15.3	
4/1	604	604	-	-	-	4.0	2.1	-	6.1	36.2	13.3	2.1	15.3	
4/2	181	181	181	0	0	1.0	0.7	0.7	2.4	47.7	3.9	0.7	4.6	
5/1	1186	1186	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	965	965	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	147	147	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	683	683	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	488	488	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 10.8 PRC Over All Lanes (%): 10.8 Total Delay for Signalled Lanes (pcuHr): 28.80 Total Delay Over All Lanes(pcuHr): 28.80 Cycle Time (s): 90														

Appendix I Partial Mitigation Junction Model Results with Amended Cycle Times

Basic Input Data and Results**User and Project Details**

Project:	10046 Ashby Road, Hinckley
Title:	Ashby Road / A47 Signalised Junction
Location:	
Date Started:	12/02/26
Additional detail:	
File name:	Land East of Stoke Road, Hinckley Appendix P - Updated Flows and mitigation Test 2.lsg3x
Author:	
Company:	
Address:	
Linsig Version:	3, 3, 1, 0

Scenarios

Number	Scenario Name	Flow Group	Network Control Plan	Time	Cycle Time (s)	PRC (%)	Delay (pcuHr)
1	2026 Base + Committed + Dev AM	2026 Base + Committed + Dev AM	Network Control Plan 2	08:00 - 09:00	80	16.6	22.95
2	2026 Base + Committed + Dev PM	2026 Base + Committed + Dev PM	Network Control Plan 2	17:00 - 18:00	90	17.4	25.75
3	2032 + Committed + Development AM	2032 + Committed + Development AM	Network Control Plan 2	08:00 - 09:00	80	10.6	25.36
4	2032 + Committed + Development PM	2032 + Committed + Development PM	Network Control Plan 2	17:00 - 18:00	90	10.8	28.52

Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min (s)	Cont Min (s)
A	Traffic		7	7
B	Traffic		7	7
C	Traffic		7	7
D	Traffic		7	7
E	Traffic		7	7
F	Traffic		7	7
G	Traffic		7	7
H	Traffic		7	7
I	Ind. Arrow	A	0	0
J	Traffic		7	7
K	Pedestrian		5	5
L	Pedestrian		5	5
M	Pedestrian		8	8
N	Pedestrian		4	4
O	Pedestrian		8	8
P	Pedestrian		5	5

Phase Intergreens Matrix

Terminating Phase	Starting Phase																
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	A		-	5	-	-	-	5	5	-	-	5	-	-	9	-	-
	B	-		6	6	-	-	6	6	-	-	5	-	-	-	-	9
	C	5	5		-	5	5	-	-	5	6	-	9	-	9	-	-
	D	-	5	-		-	-	-	-	-	-	-	-	-	-	-	7
	E	-	-	5	-		-	5	5	-	-	-	-	-	-	5	-
	F	-	-	5	-	-		5	5	5	-	-	9	-	-	5	-
	G	5	7	-	-	5	5		-	5	-	-	-	5	-	-	9
	H	5	7	-	-	5	5	-		5	-	-	8	5	-	-	-
	I	-	-	5	-	-	6	5	5		6	5	-	-	-	-	-
	J	-	-	5	-	-	-	-	-	5		-	-	-	7	5	-
	K	7	7	-	-	-	-	-	-	7	-		-	-	-	-	-
	L	-	-	6	-	-	6	-	6	-	-	-		-	-	-	-
	M	-	-	-	-	-	-	10	10	-	-	-	-		-	-	-
	N	6	-	6	-	-	-	-	-	-	6	-	-	-		-	-
	O	-	-	-	-	10	10	-	-	-	10	-	-	-	-		-
	P	-	7	-	7	-	-	7	-	-	-	-	-	-	-	-	

Phase Delays

Term. Stage	Start Stage	Phase	Type	Value	Cont value
There are no Phase Delays defined					

Prohibited Stage Change

	To Stage								
From Stage		1	2	3	4	5	6	7	
	1			5	10	9	0	5	10
	2	10			6	9	10	0	6
	3	7	7			9	7	7	0
	4	10	7	10			10	7	10
	5	0	5	6		9		5	6
	6	6	0	6		9	6		6
	7	7	7	7	0	9	7	7	

Phases in Stage

Stage No.	Phases in Stage
1	A B E F J M
2	A B I O
3	C D G H K
4	K L M N O P
5	A B E F J
6	A B I
7	C D G H

Lane Input Data

Junction: Ashby Road/A47 signalised junction												
Lane	Lane Type	Phases	Start Disp. (s)	End Disp. (s)	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient (%)	Nearside Lane	Turns	Turning Radius (m)
1/1 (A47 West)	U	H	2	3	15.0	Geom	-	3.00	0.00	Y	Arm 6 Left	13.00
											Arm 7 Ahead	Inf
1/2 (A47 West)	U	G	2	3	60.0	Geom	-	3.00	0.00	N	Arm 7 Ahead	Inf
1/3 (A47 West)	O	G	2	3	4.0	Geom	-	3.00	0.00	Y	Arm 8 Right	15.00
2/1 (Ashby Road North)	U	B	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 7 Left	15.00
											Arm 8 Ahead	Inf
2/2 (Ashby Road North)	O	A I	2	3	11.0	Geom	-	3.00	0.00	Y	Arm 5 Right	20.00
3/1 (A47 East)	U	D	2	3	15.0	Geom	-	3.00	0.00	Y	Arm 8 Left	15.00
3/2 (A47 East)	O	C	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 5 Ahead	Inf
											Arm 6 Right	20.00
4/1 (Ashby Road South)	U	F	2	3	60.0	Geom	-	3.50	0.00	Y	Arm 5 Left	15.00
											Arm 6 Ahead	Inf
4/2 (Ashby Road South)	O	E	2	3	8.0	Geom	-	3.50	0.00	Y	Arm 7 Right	25.00
5/1	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1	U		2	3	60.0	Inf	-	-	-	-	-	-
7/1	U		2	3	60.0	Inf	-	-	-	-	-	-
7/2	U		2	3	60.0	Inf	-	-	-	-	-	-
8/1	U		2	3	60.0	Inf	-	-	-	-	-	-

Basic Input Data and Results
Give-Way Lane Input Data

Junction: Ashby Road/A47 signalised junction											
Lane	Movement	Max Flow when Giving Way (PCU/Hr)	Min Flow when Giving Way (PCU/Hr)	Opposing Lane	Opp. Lane Coeff.	Opp. Mvmnts.	Right Turn Storage (PCU)	Non-Blocking Storage (PCU)	RTF	Right Turn Move up (s)	Max Turns in Intergreen (PCU)
1/3 (A47 West)	8/1 (Right)	1439	0	3/1	1.09	All	3.00	-	0.50	3	2.00
				3/2	1.09	To 5/1 (Ahead)					
2/2 (Ashby Road North)	5/1 (Right)	1439	0	4/2	1.09	All	3.00	-	0.50	3	2.00
3/2 (A47 East)	6/1 (Right)	1439	0	1/1	1.09	All	3.00	2.00	0.50	3	2.00
				1/2	1.09	To 7/2 (Ahead)					
4/2 (Ashby Road South)	7/1 (Right)	1439	0	2/1	1.09	All	3.00	-	0.50	3	2.00
	7/2 (Right)	1439	0	2/1	1.09	All					

Basic Input Data and Results

Scenario 1: '2026 Base + Committed + Dev AM' (FG1: '2026 Base + Committed + Dev AM', Plan 2: 'Network Control Plan 2')

Lane Saturation Flows

Junction: Ashby Road/A47 signalised junction								
Lane	Lane Width (m)	Gradient (%)	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (A47 West)	3.00	0.00	Y	Arm 6 Left	13.00	92.5 %	1730	1730
				Arm 7 Ahead	Inf	7.5 %		
1/2 (A47 West)	3.00	0.00	N	Arm 7 Ahead	Inf	100.0 %	2055	2055
1/3 (A47 West)	3.00	0.00	Y	Arm 8 Right	15.00	100.0 %	1741	1741
2/1 (Ashby Road North)	3.00	0.00	Y	Arm 7 Left	15.00	8.4 %	1899	1899
				Arm 8 Ahead	Inf	91.6 %		
2/2 (Ashby Road North)	3.00	0.00	Y	Arm 5 Right	20.00	100.0 %	1781	1781
3/1 (A47 East)	3.00	0.00	Y	Arm 8 Left	15.00	100.0 %	1741	1741
3/2 (A47 East)	3.00	0.00	Y	Arm 5 Ahead	Inf	93.8 %	1906	1906
				Arm 6 Right	20.00	6.2 %		
4/1 (Ashby Road South)	3.50	0.00	Y	Arm 5 Left	15.00	30.3 %	1907	1907
				Arm 6 Ahead	Inf	69.7 %		
4/2 (Ashby Road South)	3.50	0.00	Y	Arm 7 Right	25.00	100.0 %	1854	1854
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf
7/1	Infinite Saturation Flow						Inf	Inf
7/2	Infinite Saturation Flow						Inf	Inf
8/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times

No Bonus Greens are defined For Scenario 1

Scenario 2: '2026 Base + Committed + Dev PM' (FG2: '2026 Base + Committed + Dev PM', Plan 2: 'Network Control Plan 2')**Lane Saturation Flows**

Junction: Ashby Road/A47 signalised junction								
Lane	Lane Width (m)	Gradient (%)	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (A47 West)	3.00	0.00	Y	Arm 6 Left	13.00	100.0 %	1717	1717
				Arm 7 Ahead	Inf	0.0 %		
1/2 (A47 West)	3.00	0.00	N	Arm 7 Ahead	Inf	100.0 %	2055	2055
1/3 (A47 West)	3.00	0.00	Y	Arm 8 Right	15.00	100.0 %	1741	1741
2/1 (Ashby Road North)	3.00	0.00	Y	Arm 7 Left	15.00	13.5 %	1890	1890
				Arm 8 Ahead	Inf	86.5 %		
2/2 (Ashby Road North)	3.00	0.00	Y	Arm 5 Right	20.00	100.0 %	1781	1781
3/1 (A47 East)	3.00	0.00	Y	Arm 8 Left	15.00	100.0 %	1741	1741
3/2 (A47 East)	3.00	0.00	Y	Arm 5 Ahead	Inf	93.4 %	1906	1906
				Arm 6 Right	20.00	6.6 %		
4/1 (Ashby Road South)	3.50	0.00	Y	Arm 5 Left	15.00	26.1 %	1915	1915
				Arm 6 Ahead	Inf	73.9 %		
4/2 (Ashby Road South)	3.50	0.00	Y	Arm 7 Right	25.00	100.0 %	1854	1854
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf
7/1	Infinite Saturation Flow						Inf	Inf
7/2	Infinite Saturation Flow						Inf	Inf
8/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times

No Bonus Greens are defined For Scenario 2

Scenario 3: '2032 + Committed + Development AM' (FG3: '2032 + Committed + Development AM', Plan 2: 'Network Control Plan 2')**Lane Saturation Flows**

Junction: Ashby Road/A47 signalised junction								
Lane	Lane Width (m)	Gradient (%)	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (A47 West)	3.00	0.00	Y	Arm 6 Left	13.00	92.0 %	1731	1731
				Arm 7 Ahead	Inf	8.0 %		
1/2 (A47 West)	3.00	0.00	N	Arm 7 Ahead	Inf	100.0 %	2055	2055
1/3 (A47 West)	3.00	0.00	Y	Arm 8 Right	15.00	100.0 %	1741	1741
2/1 (Ashby Road North)	3.00	0.00	Y	Arm 7 Left	15.00	8.4 %	1899	1899
				Arm 8 Ahead	Inf	91.6 %		
2/2 (Ashby Road North)	3.00	0.00	Y	Arm 5 Right	20.00	100.0 %	1781	1781
3/1 (A47 East)	3.00	0.00	Y	Arm 8 Left	15.00	100.0 %	1741	1741
3/2 (A47 East)	3.00	0.00	Y	Arm 5 Ahead	Inf	93.8 %	1906	1906
				Arm 6 Right	20.00	6.2 %		
4/1 (Ashby Road South)	3.50	0.00	Y	Arm 5 Left	15.00	30.4 %	1907	1907
				Arm 6 Ahead	Inf	69.6 %		
4/2 (Ashby Road South)	3.50	0.00	Y	Arm 7 Right	25.00	100.0 %	1854	1854
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf
7/1	Infinite Saturation Flow						Inf	Inf
7/2	Infinite Saturation Flow						Inf	Inf
8/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times

No Bonus Greens are defined For Scenario 3

Scenario 4: '2032 + Committed + Development PM' (FG4: '2032 + Committed + Development PM', Plan 2: 'Network Control Plan 2')**Lane Saturation Flows**

Junction: Ashby Road/A47 signalised junction								
Lane	Lane Width (m)	Gradient (%)	Nearside Lane	Allowed Turns	Turning Radius (m)	Turning Prop.	Sat Flow (PCU/Hr)	Flared Sat Flow (PCU/Hr)
1/1 (A47 West)	3.00	0.00	Y	Arm 6 Left	13.00	99.6 %	1718	1718
				Arm 7 Ahead	Inf	0.4 %		
1/2 (A47 West)	3.00	0.00	N	Arm 7 Ahead	Inf	100.0 %	2055	2055
1/3 (A47 West)	3.00	0.00	Y	Arm 8 Right	15.00	100.0 %	1741	1741
2/1 (Ashby Road North)	3.00	0.00	Y	Arm 7 Left	15.00	13.1 %	1890	1890
				Arm 8 Ahead	Inf	86.9 %		
2/2 (Ashby Road North)	3.00	0.00	Y	Arm 5 Right	20.00	100.0 %	1781	1781
3/1 (A47 East)	3.00	0.00	Y	Arm 8 Left	15.00	100.0 %	1741	1741
3/2 (A47 East)	3.00	0.00	Y	Arm 5 Ahead	Inf	93.5 %	1906	1906
				Arm 6 Right	20.00	6.5 %		
4/1 (Ashby Road South)	3.50	0.00	Y	Arm 5 Left	15.00	26.2 %	1915	1915
				Arm 6 Ahead	Inf	73.8 %		
4/2 (Ashby Road South)	3.50	0.00	Y	Arm 7 Right	25.00	100.0 %	1854	1854
5/1	Infinite Saturation Flow						Inf	Inf
6/1	Infinite Saturation Flow						Inf	Inf
7/1	Infinite Saturation Flow						Inf	Inf
7/2	Infinite Saturation Flow						Inf	Inf
8/1	Infinite Saturation Flow						Inf	Inf

Bonus Green Times

No Bonus Greens are defined For Scenario 4

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: '2026 Base + Committed + Dev AM'	08:00	09:00	01:00	
2: '2026 Base + Committed + Dev PM'	17:00	18:00	01:00	
3: '2032 + Committed + Development AM'	08:00	09:00	01:00	
4: '2032 + Committed + Development PM'	17:00	18:00	01:00	

Traffic Flows, Desired

FG1: '2026 Base + Committed + Dev AM'

Desired Flow :

	Destination					
Origin		A	B	C	D	Tot.
	A	0	35	382	403	820
	B	38	0	120	574	732
	C	359	124	0	156	639
	D	430	572	81	0	1083
	Tot.	827	731	583	1133	3274

FG2: '2026 Base + Committed + Dev PM'

Desired Flow :

	Destination					
Origin		A	B	C	D	Tot.
	A	0	53	341	409	803
	B	41	0	98	577	716
	C	427	172	0	151	750
	D	460	564	11	0	1035
	Tot.	928	789	450	1137	3304

FG3: '2032 + Committed + Development AM'

Desired Flow :

	Destination					
Origin		A	B	C	D	Tot.
	A	0	37	405	421	863
	B	40	0	128	604	772
	C	378	131	0	165	674
	D	448	596	85	0	1129
	Tot.	866	764	618	1190	3438

FG4: '2032 + Committed + Development PM'

Desired Flow :

	Destination					
Origin		A	B	C	D	Tot.
	A	0	55	366	426	847
	B	42	0	107	602	751
	C	446	181	0	158	785
	D	477	594	15	0	1086
	Tot.	965	830	488	1186	3469

Basic Input Data and Results

Scenario 1: '2026 Base + Committed + Dev AM' (FG1: '2026 Base + Committed + Dev AM', Plan 2: 'Network Control Plan 2')

Stage Timings

Stage	5	6	7
Duration	25	0	37
Change Point	0	32	37

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	32	5	37
B	Ashby Road North Left Ahead	Traffic	30	7	37
C	A47 East Ahead Right	Traffic	37	43	0
D	A47 East Left	Traffic	37	43	0
E	Ashby Road South Right	Traffic	27	5	32
F	Ashby Road South Left Ahead	Traffic	27	5	32
G	A47 West Ahead Right	Traffic	37	43	0
H	A47 West Left Ahead	Traffic	37	43	0
I	Ashby Road North Right IGA	Ind. Arrow	0	37	37
J		Traffic	26	6	32
K	Pedestrians across	Pedestrian			
L	Pedestrians across	Pedestrian			
M	Pedestrians across	Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Basic Input Data and Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	77.2%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	77.2%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	37	-	-	465	1730	822	56.6%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	37	-	-	618	2055:1741	856+129	62.7 : 62.7%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	30:32	0	-	820	1899:1781	606+530	68.9 : 76.0%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	37	-	-	732	1906:1741	871+171	70.3 : 70.3%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	27	-	-	515	1907	667	77.2%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	27	-	-	124	1854	258	48.1%
5/1		U	N/A	N/A	-		-	-	-	-	1133	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	827	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	132	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	599	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	583	Inf	Inf	0.0%

Basic Input Data and Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	597	32	17	15.9	6.1	1.0	23.0	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	597	32	17	15.9	6.1	1.0	23.0	-	-	-	-	
1/1	465	465	-	-	-	1.9	0.6	-	2.6	20.1	7.4	0.6	8.0	
1/2+1/3	618	618	80	0	1	2.6	0.8	0.3	3.7	21.6	9.4	0.8	10.2	
2/1+2/2	820	820	356	32	15	4.2	1.3	0.2	5.7	25.1	7.2	1.3	8.5	
3/2+3/1	732	732	38	0	0	3.2	1.2	0.1	4.4	21.7	10.4	1.2	11.5	
4/1	515	515	-	-	-	3.3	1.7	-	5.0	34.7	10.2	1.7	11.8	
4/2	124	124	124	0	0	0.6	0.5	0.5	1.6	45.4	1.9	0.5	2.4	
5/1	1133	1133	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	827	827	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	132	132	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	599	599	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	583	583	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 16.6 PRC Over All Lanes (%): 16.6 Total Delay for Signalled Lanes (pcuHr): 22.95 Total Delay Over All Lanes(pcuHr): 22.95 Cycle Time (s): 80														

Basic Input Data and Results

Scenario 2: '2026 Base + Committed + Dev PM' (FG2: '2026 Base + Committed + Dev PM', Plan 2: 'Network Control Plan 2')

Stage Timings

Stage	5	6	7
Duration	33	0	39
Change Point	0	40	45

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	40	5	45
B	Ashby Road North Left Ahead	Traffic	38	7	45
C	A47 East Ahead Right	Traffic	39	51	0
D	A47 East Left	Traffic	39	51	0
E	Ashby Road South Right	Traffic	35	5	40
F	Ashby Road South Left Ahead	Traffic	35	5	40
G	A47 West Ahead Right	Traffic	39	51	0
H	A47 West Left Ahead	Traffic	39	51	0
I	Ashby Road North Right IGA	Ind. Arrow	0	45	45
J		Traffic	34	6	40
K	Pedestrians across	Pedestrian			
L	Pedestrians across	Pedestrian			
M	Pedestrians across	Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Basic Input Data and Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	76.6%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	76.6%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	39	-	-	460	1717	763	60.3%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	39	-	-	575	2055:1741	897+17	62.9 : 62.9%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	38:40	0	-	803	1890:1781	537+534	73.3 : 76.6%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	39	-	-	716	1906:1741	817+129	75.7 : 75.7%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	35	-	-	578	1915	766	75.5%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	35	-	-	172	1854	325	52.9%
5/1		U	N/A	N/A	-		-	-	-	-	1137	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	928	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	139	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	650	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	450	Inf	Inf	0.0%

Basic Input Data and Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	602	17	14	18.0	6.7	1.1	25.7	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	602	17	14	18.0	6.7	1.1	25.7	-	-	-	-	
1/1	460	460	-	-	-	2.4	0.8	-	3.2	24.9	8.7	0.8	9.4	
1/2+1/3	575	575	11	0	0	3.1	0.8	0.0	3.9	24.6	10.9	0.8	11.8	
2/1+2/2	803	803	378	17	14	4.0	1.5	0.3	5.8	25.8	7.2	1.5	8.6	
3/2+3/1	716	716	41	0	0	3.9	1.5	0.1	5.6	28.0	12.5	1.5	14.1	
4/1	578	578	-	-	-	3.7	1.5	-	5.2	32.6	12.4	1.5	13.9	
4/2	172	172	172	0	0	0.9	0.6	0.6	2.1	43.3	2.8	0.6	3.4	
5/1	1137	1137	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	928	928	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	139	139	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	650	650	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	450	450	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 17.4 PRC Over All Lanes (%): 17.4 Total Delay for Signalled Lanes (pcuHr): 25.75 Total Delay Over All Lanes(pcuHr): 25.75 Cycle Time (s): 90														

Basic Input Data and Results

Scenario 3: '2032 + Committed + Development AM' (FG3: '2032 + Committed + Development AM', Plan 2: 'Network Control Plan 2')

Stage Timings

Stage	5	6	7
Duration	25	0	37
Change Point	0	32	37

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	32	5	37
B	Ashby Road North Left Ahead	Traffic	30	7	37
C	A47 East Ahead Right	Traffic	37	43	0
D	A47 East Left	Traffic	37	43	0
E	Ashby Road South Right	Traffic	27	5	32
F	Ashby Road South Left Ahead	Traffic	27	5	32
G	A47 West Ahead Right	Traffic	37	43	0
H	A47 West Left Ahead	Traffic	37	43	0
I	Ashby Road North Right IGA	Ind. Arrow	0	37	37
J		Traffic	26	6	32
K	Pedestrians across	Pedestrian			
L	Pedestrians across	Pedestrian			
M	Pedestrians across	Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Basic Input Data and Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	81.4%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	81.4%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	37	-	-	487	1731	822	59.2%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	37	-	-	642	2055:1741	855+130	65.2 : 65.2%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	30:32	0	-	863	1899:1781	613+543	72.1 : 77.5%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	37	-	-	772	1906:1741	871+173	74.0 : 74.0%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	27	-	-	543	1907	667	81.4%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	27	-	-	131	1854	243	54.0%
5/1		U	N/A	N/A	-		-	-	-	-	1190	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	866	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	141	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	623	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	618	Inf	Inf	0.0%

Basic Input Data and Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	623	37	17	17.0	7.2	1.2	25.4	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	623	37	17	17.0	7.2	1.2	25.4	-	-	-	-	
1/1	487	487	-	-	-	2.1	0.7	-	2.8	20.7	7.8	0.7	8.6	
1/2+1/3	642	642	84	0	1	2.7	0.9	0.3	4.0	22.4	9.9	0.9	10.8	
2/1+2/2	863	863	368	37	16	4.5	1.5	0.2	6.2	25.8	7.7	1.5	9.2	
3/2+3/1	772	772	39	0	0	3.4	1.4	0.1	4.9	22.9	11.3	1.4	12.7	
4/1	543	543	-	-	-	3.6	2.1	-	5.7	37.6	10.9	2.1	13.0	
4/2	131	131	131	0	0	0.7	0.6	0.6	1.8	49.4	2.0	0.6	2.6	
5/1	1190	1190	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	866	866	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	141	141	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	623	623	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	618	618	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 10.6 PRC Over All Lanes (%): 10.6 Total Delay for Signalled Lanes (pcuHr): 25.36 Total Delay Over All Lanes(pcuHr): 25.36 Cycle Time (s): 80														

Basic Input Data and Results

Scenario 4: '2032 + Committed + Development PM' (FG4: '2032 + Committed + Development PM', Plan 2: 'Network Control Plan 2')

Stage Timings

Stage	5	6	7
Duration	33	0	39
Change Point	0	40	45

Phase Timings

Phase Name	Description	Phase	Green Period 1		
			Total Green	Start Time	End Time
A	Ashby Road North Right	Traffic	40	5	45
B	Ashby Road North Left Ahead	Traffic	38	7	45
C	A47 East Ahead Right	Traffic	39	51	0
D	A47 East Left	Traffic	39	51	0
E	Ashby Road South Right	Traffic	35	5	40
F	Ashby Road South Left Ahead	Traffic	35	5	40
G	A47 West Ahead Right	Traffic	39	51	0
H	A47 West Left Ahead	Traffic	39	51	0
I	Ashby Road North Right IGA	Ind. Arrow	0	45	45
J		Traffic	34	6	40
K	Pedestrians across	Pedestrian			
L	Pedestrians across	Pedestrian			
M	Pedestrians across	Pedestrian			
N	Pedestrians across	Pedestrian			
O	Pedestrians across	Pedestrian			
P	Pedestrians across	Pedestrian			

Basic Input Data and Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Bonus Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Ashby Road / A47 Signalised Junction	-	-	N/A	-	-		-	-	-	-	-	-	-	81.3%
Ashby Road/A47 signalised junction	-	-	N/A	-	-		-	-	-	-	-	-	-	81.3%
1/1	A47 West Left Ahead	U	N/A	N/A	H		1	39	-	-	479	1718	764	62.7%
1/2+1/3	A47 West Ahead Right	U+O	N/A	N/A	G		1	39	-	-	607	2055:1741	892+23	66.4 : 66.4%
2/1+2/2	Ashby Road North Right Left Ahead	U+O	N/A	N/A	B A	I	1	38:40	0	-	847	1890:1781	547+524	77.0 : 81.3%
3/2+3/1	A47 East Ahead Right Left	O+U	N/A	N/A	C D		1	39	-	-	751	1906:1741	815+135	79.0 : 79.0%
4/1	Ashby Road South Left Ahead	U	N/A	N/A	F		1	35	-	-	604	1915	766	78.9%
4/2	Ashby Road South Right	O	N/A	N/A	E		1	35	-	-	181	1854	305	59.3%
5/1		U	N/A	N/A	-		-	-	-	-	1186	Inf	Inf	0.0%
6/1		U	N/A	N/A	-		-	-	-	-	965	Inf	Inf	0.0%
7/1		U	N/A	N/A	-		-	-	-	-	147	Inf	Inf	0.0%
7/2		U	N/A	N/A	-		-	-	-	-	683	Inf	Inf	0.0%
8/1		U	N/A	N/A	-		-	-	-	-	488	Inf	Inf	0.0%

Basic Input Data and Results

Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)	
Network: Ashby Road / A47 Signalised Junction	-	-	606	43	15	19.3	8.1	1.2	28.5	-	-	-	-	
Ashby Road/A47 signalised junction	-	-	606	43	15	19.3	8.1	1.2	28.5	-	-	-	-	
1/1	479	479	-	-	-	2.6	0.8	-	3.4	25.6	9.2	0.8	10.0	
1/2+1/3	607	607	15	0	0	3.3	1.0	0.0	4.3	25.6	11.7	1.0	12.7	
2/1+2/2	847	847	369	43	14	4.2	1.9	0.3	6.4	27.4	7.6	1.9	9.5	
3/2+3/1	751	751	42	0	0	4.2	1.8	0.1	6.2	29.6	13.4	1.8	15.3	
4/1	604	604	-	-	-	4.0	1.8	-	5.8	34.5	13.1	1.8	14.9	
4/2	181	181	181	0	0	1.0	0.7	0.7	2.4	47.7	3.9	0.7	4.6	
5/1	1186	1186	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
6/1	965	965	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/1	147	147	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
7/2	683	683	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
8/1	488	488	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	
C1 PRC for Signalled Lanes (%): 10.8 PRC Over All Lanes (%): 10.8 Total Delay for Signalled Lanes (pcuHr): 28.52 Total Delay Over All Lanes(pcuHr): 28.52 Cycle Time (s): 90														