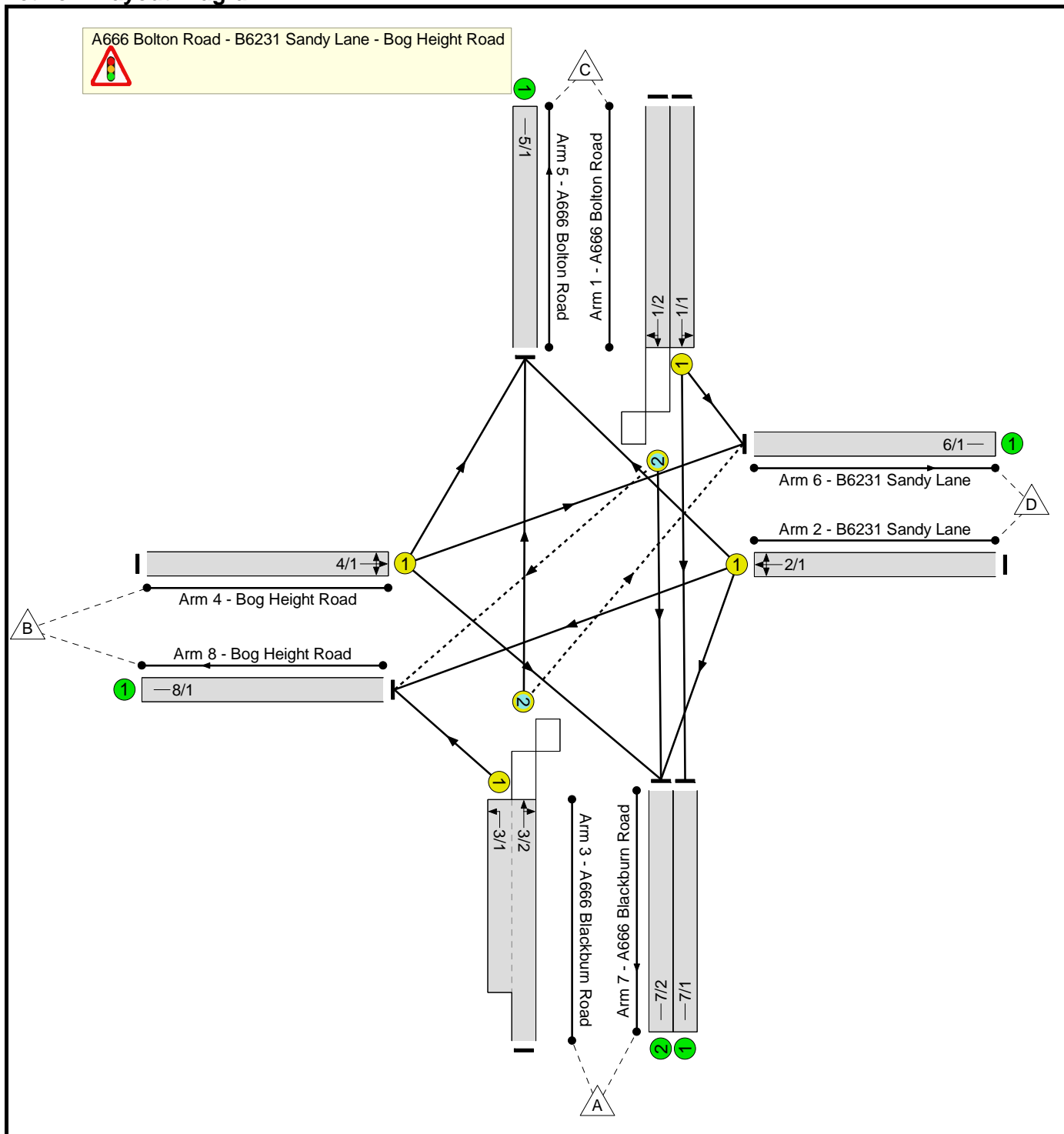


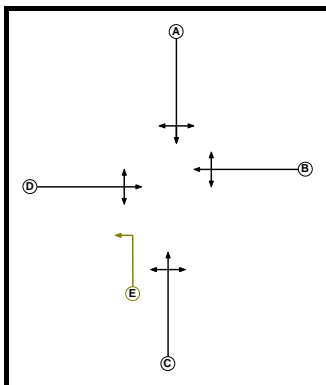
**Full Input Data And Results****User and Project Details**

<b>Project:</b>	
<b>Title:</b>	
<b>Location:</b>	
<b>File name:</b>	A666 Bolton Road - Bog Height Road - Sandy Lane - 90 sec cycletime.lsg3x
<b>Author:</b>	Glen Strongitharm
<b>Company:</b>	Mayer Brown Ltd
<b>Address:</b>	Lion House, Oriental Road, Woking, Surrey, GU22 8AR
<b>Linsig Version:</b>	3, 2, 11, 0

### Network Layout Diagram



### Phase Diagram



### Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min
A	Traffic		7	7
B	Traffic		7	7
C	Traffic		7	7
D	Traffic		7	7
E	Filter	C	4	0

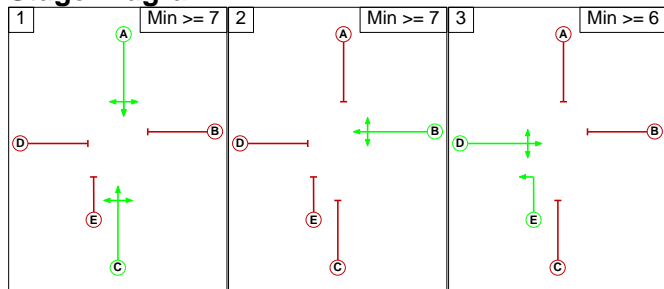
### Phase Intergreens Matrix

Terminating Phase	Starting Phase				
	A	B	C	D	E
A	-	5	-	6	7
B	6	-	8	7	8
C	-	6	-	5	-
D	8	6	5	-	-
E	5	5	-	-	-

### Phases in Stage

Stage No.	Phases in Stage
1	A C
2	B
3	D E

### Stage Diagram



**Phase Delays**

Term. Stage	Start Stage	Phase	Type	Value	Cont value
1	2	A	Losing	1	1
1	3	C	Losing	1	1

**Prohibited Stage Change**

From Stage	To Stage		
	1	2	3
1		6	7
2	8		8
3	10	X	

**Give-Way Lane Input Data**

Junction: A666 Bolton Road - B6231 Sandy Lane - Bog Height Road											
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)
1/2 (A666 Bolton Road)	8/1 (Right)	1439	0	3/2	1.09	All	6.00	2.00	0.50	6	2.00
				3/1	1.09	All					
3/2 (A666 Blackburn Road)	6/1 (Right)	1439	0	1/2	1.09	All	5.00	2.00	0.50	5	2.00
				1/1	1.09	All					

**Lane Input Data**

Junction: A666 Bolton Road - B6231 Sandy Lane - Bog Height Road												
Lane	Lane Type	Phases	Start Disp.	End Disp.	Physical Length (PCU)	Sat Flow Type	Def User Saturation Flow (PCU/Hr)	Lane Width (m)	Gradient	Nearside Lane	Turns	Turning Radius (m)
1/1 (A666 Bolton Road)	U	A	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 6 Left	8.00
											Arm 7 Ahead	Inf
1/2 (A666 Bolton Road)	O	A	2	3	60.0	Geom	-	3.00	0.00	N	Arm 7 Ahead	Inf
											Arm 8 Right	12.00
2/1 (B6231 Sandy Lane)	U	B	2	3	60.0	Geom	-	3.75	0.00	Y	Arm 5 Right	12.00
											Arm 7 Left	12.00
3/1 (A666 Blackburn Road)	U	C E	2	3	19.1	Geom	-	3.25	0.00	Y	Arm 8 Ahead	25.00
											Arm 8 Left	12.00
3/2 (A666 Blackburn Road)	O	C	2	3	60.0	Geom	-	3.25	0.00	N	Arm 5 Ahead	Inf
											Arm 6 Right	15.00
4/1 (Bog Height Road)	U	D	2	3	60.0	Geom	-	3.50	0.00	Y	Arm 5 Left	12.00
											Arm 6 Ahead	25.00
											Arm 7 Right	15.00
5/1 (A666 Bolton Road)	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1 (B6231 Sandy Lane)	U		2	3	60.0	Inf	-	-	-	-	-	-
7/1 (A666 Blackburn Road)	U		2	3	60.0	Inf	-	-	-	-	-	-
7/2 (A666 Blackburn Road)	U		2	3	60.0	Inf	-	-	-	-	-	-
8/1 (Bog Height Road)	U		2	3	60.0	Inf	-	-	-	-	-	-

**Traffic Flow Groups**

Flow Group	Start Time	End Time	Duration	Formula
1: 'AM Base 2014'	07:45	08:45	01:00	
2: 'PM Base 2014'	17:00	18:00	01:00	
3: 'AM DM 2028'	07:45	08:45	01:00	
4: 'PM DM 2028'	17:00	18:00	01:00	
5: 'AM DS 2028'	07:45	08:45	01:00	
6: 'PM DS 2028'	17:00	18:00	01:00	

**Traffic Flows, Desired**

**Scenario 1: 'AM Base 2014'** (FG1: 'AM Base 2014', Plan 1: 'Network Control Plan 1')

**Desired Flow :**

		Destination				
		A	B	C	D	Tot.
Origin	A	0	187	576	50	813
	B	186	0	24	24	234
	C	864	45	0	31	940
	D	98	28	20	0	146
	Tot.	1148	260	620	105	2133

**Scenario 2: 'PM Base 2014'** (FG2: 'PM Base 2014', Plan 1: 'Network Control Plan 1')

**Desired Flow :**

		Destination				
		A	B	C	D	Tot.
Origin	A	0	326	717	45	1088
	B	125	0	40	31	196
	C	659	23	0	23	705
	D	50	47	23	0	120
	Tot.	834	396	780	99	2109

**Scenario 3: 'AM DM 2028'** (FG3: 'AM DM 2028', Plan 1: 'Network Control Plan 1')

**Desired Flow :**

		Destination				
		A	B	C	D	Tot.
Origin	A	0	217	666	57	940
	B	217	0	28	27	272
	C	1003	52	0	36	1091
	D	112	32	23	0	167
	Tot.	1332	301	717	120	2470

**Scenario 4: 'PM DM 2028'** (FG4: 'PM DM 2028', Plan 1: 'Network Control Plan 1')

**Desired Flow :**

		Destination				
		A	B	C	D	Tot.
Origin	A	0	385	833	52	1270
	B	149	0	46	36	231
	C	764	26	0	27	817
	D	57	55	27	0	139
	Tot.	970	466	906	115	2457

**Scenario 5: 'AM DS 2028'** (FG5: 'AM DS 2028', Plan 1: 'Network Control Plan 1')

**Desired Flow :**

		Destination				
		A	B	C	D	Tot.
Origin	A	0	241	669	57	967
	B	298	0	28	32	358
	C	1013	52	0	36	1101
	D	112	34	23	0	169
	Tot.	1423	327	720	125	2595

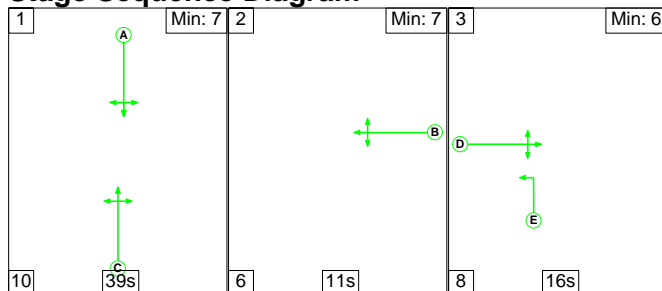
**Scenario 6: 'PM DS 2028'** (FG6: 'PM DS 2028', Plan 1: 'Network Control Plan 1')

**Desired Flow :**

		Destination				
		A	B	C	D	Tot.
Origin	A	0	455	841	52	1348
	B	190	0	46	38	274
	C	769	26	0	27	822
	D	57	59	27	0	143
	Tot.	1016	540	914	117	2587

**Scenario 1: 'AM Base 2014'** (FG1: 'AM Base 2014', Plan 1: 'Network Control Plan 1')

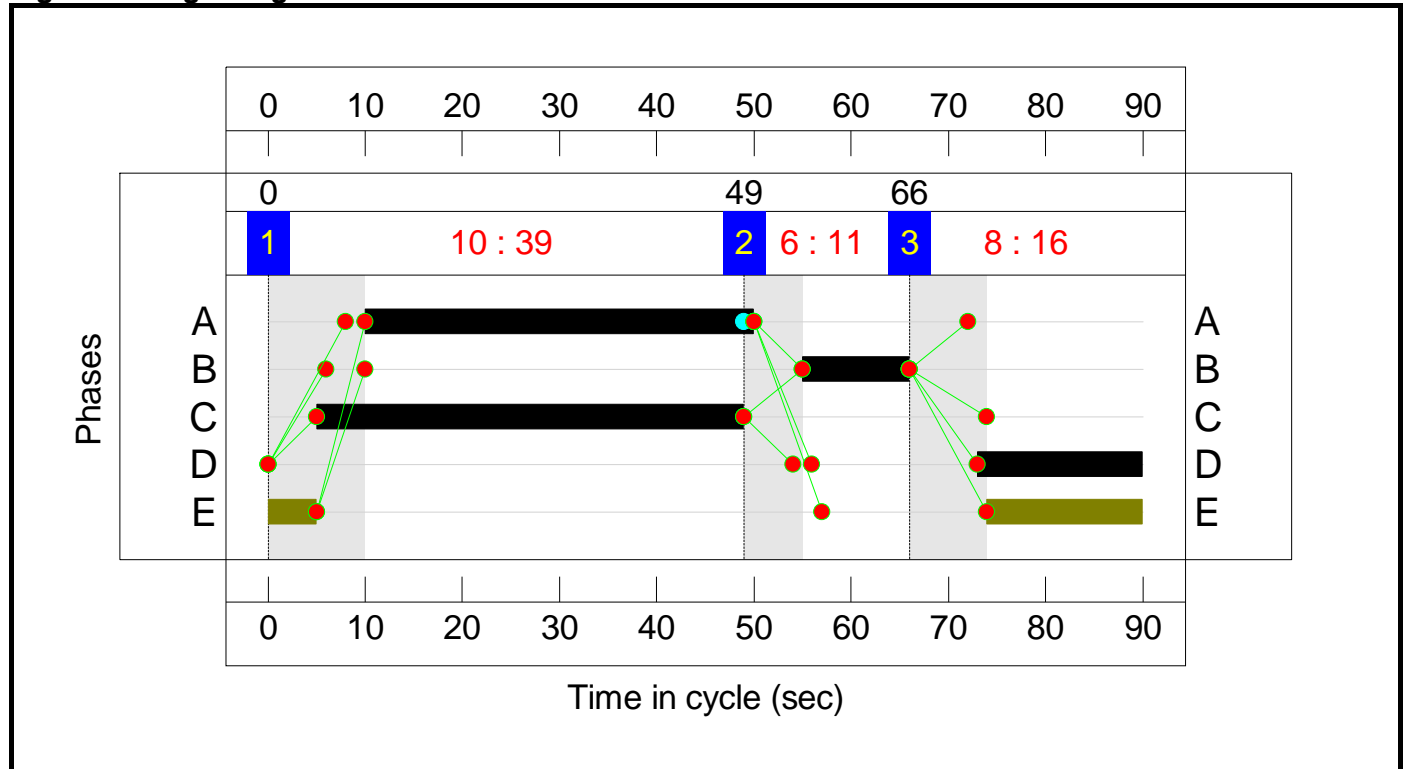
**Stage Sequence Diagram**



**Stage Timings**

Stage	1	2	3
Duration	39	11	16
Change Point	0	49	66

**Signal Timings Diagram**





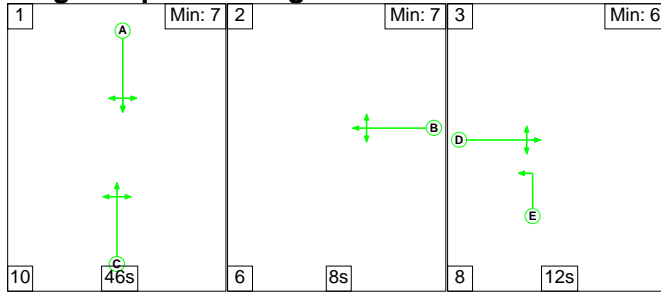
## Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	65.4%
A666 Bolton Road - B6231 Sandy Lane - Bog Height Road	-	-	N/A	-	-		-	-	-	-	-	-	65.4%
1/1	A666 Bolton Road Left Ahead	U	N/A	N/A	A		1	40	-	449	1891	861	52.1%
1/2	A666 Bolton Road Ahead Right	O	N/A	N/A	A		1	40	-	491	2032	909	54.0%
2/1	B6231 Sandy Lane Right Left Ahead	U	N/A	N/A	B		1	11	-	146	1789	239	61.2%
3/2+3/1	A666 Blackburn Road Ahead Right Left	O+U	N/A	N/A	C	E	1	44:65	21	813	2064:1724	965+288	64.8 : 64.8%
4/1	Bog Height Road Left Ahead Right	U	N/A	N/A	D		1	17	-	234	1789	358	65.4%
5/1	A666 Bolton Road	U	N/A	N/A	-		-	-	-	620	Inf	Inf	0.0%
6/1	B6231 Sandy Lane	U	N/A	N/A	-		-	-	-	105	Inf	Inf	0.0%
7/1	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	418	Inf	Inf	0.0%
7/2	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	730	Inf	Inf	0.0%
8/1	Bog Height Road	U	N/A	N/A	-		-	-	-	260	Inf	Inf	0.0%

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	-	-	91	0	4	11.2	3.8	0.3	15.3	-	-	-	-
A666 Bolton Road - B6231 Sandy Lane - Bog Height Road	-	-	91	0	4	11.2	3.8	0.3	15.3	-	-	-	-
1/1	449	449	-	-	-	2.2	0.5	-	2.7	21.8	8.0	0.5	8.5
1/2	491	491	43	0	3	2.4	0.6	0.1	3.1	22.5	8.7	0.6	9.3
2/1	146	146	-	-	-	1.5	0.8	-	2.3	55.9	3.4	0.8	4.2
3/2+3/1	813	813	48	0	2	3.0	0.9	0.2	4.2	18.4	11.1	0.9	12.0
4/1	234	234	-	-	-	2.2	0.9	-	3.1	47.5	5.3	0.9	6.3
5/1	620	620	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	105	105	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	418	418	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	730	730	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	260	260	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
C1			PRC for Signalled Lanes (%):		37.6	Total Delay for Signalled Lanes (pcuHr):		15.30	Cycle Time (s):		90		
			PRC Over All Lanes (%):		37.6	Total Delay Over All Lanes (pcuHr):		15.30					

**Scenario 2: 'PM Base 2014'** (FG2: 'PM Base 2014', Plan 1: 'Network Control Plan 1')

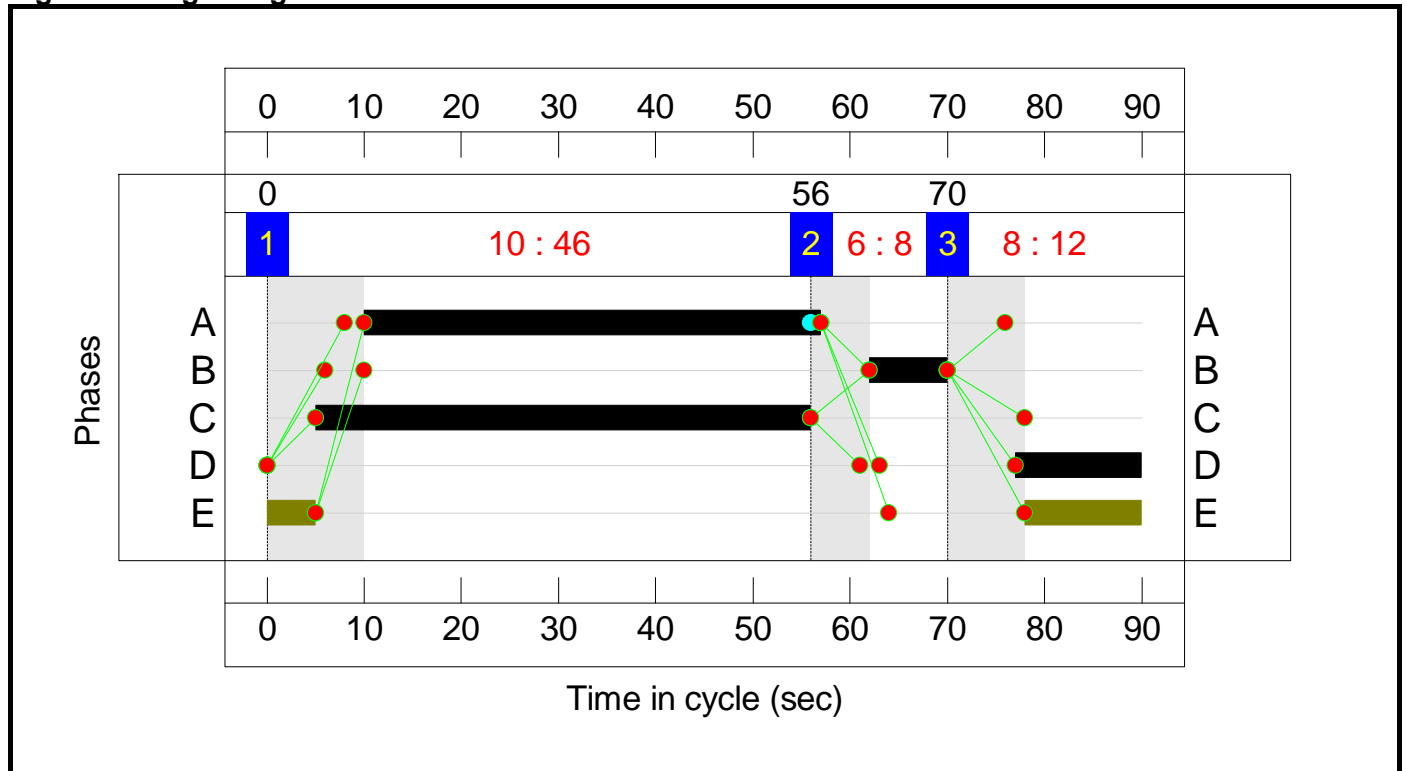
**Stage Sequence Diagram**



**Stage Timings**

Stage	1	2	3
Duration	46	8	12
Change Point	0	56	70

**Signal Timings Diagram**



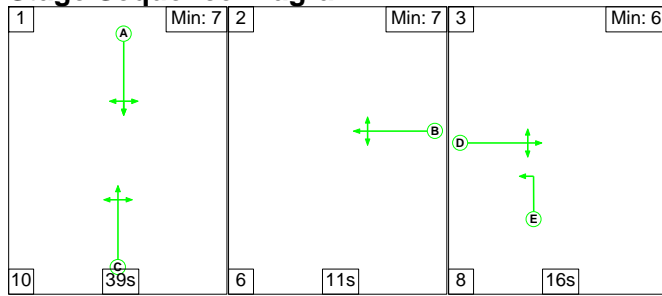
**Network Results**

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
<b>Network</b>	-	-	<b>N/A</b>	-	-		-	-	-	-	-	-	<b>72.5%</b>
<b>A666 Bolton Road - B6231 Sandy Lane - Bog Height Road</b>	-	-	<b>N/A</b>	-	-		-	-	-	-	-	-	<b>72.5%</b>
1/1	A666 Bolton Road Left Ahead	U	N/A	N/A	A		1	47	-	333	1891	1009	33.0%
1/2	A666 Bolton Road Ahead Right	O	N/A	N/A	A		1	47	-	372	2039	1077	34.5%
2/1	B6231 Sandy Lane Right Left Ahead	U	N/A	N/A	B		1	8	-	120	1810	181	66.3%
3/2+3/1	A666 Blackburn Road Ahead Right Left	O+U	N/A	N/A	C	E	1	51:68	17	1088	2068:1724	1051+450	72.5 : 72.5%
4/1	Bog Height Road Left Ahead Right	U	N/A	N/A	D		1	13	-	196	1788	278	70.5%
5/1	A666 Bolton Road	U	N/A	N/A	-		-	-	-	780	Inf	Inf	0.0%
6/1	B6231 Sandy Lane	U	N/A	N/A	-		-	-	-	99	Inf	Inf	0.0%
7/1	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	310	Inf	Inf	0.0%
7/2	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	524	Inf	Inf	0.0%
8/1	Bog Height Road	U	N/A	N/A	-		-	-	-	396	Inf	Inf	0.0%

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)
<b>Network</b>	-	-	65	0	3	8.6	3.9	0.1	12.6	-	-	-	-
<b>A666 Bolton Road - B6231 Sandy Lane - Bog Height Road</b>	-	-	65	0	3	8.6	3.9	0.1	12.6	-	-	-	-
1/1	333	333	-	-	-	1.1	0.2	-	1.3	14.6	4.6	0.2	4.9
1/2	372	372	22	0	1	1.2	0.3	0.1	1.6	15.2	5.3	0.3	5.5
2/1	120	120	-	-	-	1.3	1.0	-	2.3	67.7	2.9	1.0	3.8
3/2+3/1	1088	1088	44	0	2	3.0	1.3	0.1	4.3	14.3	12.7	1.3	14.0
4/1	196	196	-	-	-	2.0	1.2	-	3.1	57.4	4.6	1.2	5.8
5/1	780	780	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	99	99	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	310	310	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	524	524	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	396	396	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
C1			PRC for Signalled Lanes (%):		24.2	Total Delay for Signalled Lanes (pcuHr):		12.63	Cycle Time (s): 90				
			PRC Over All Lanes (%):		24.2	Total Delay Over All Lanes(pcuHr):		12.63					

**Scenario 3: 'AM DM 2028'** (FG3: 'AM DM 2028', Plan 1: 'Network Control Plan 1')

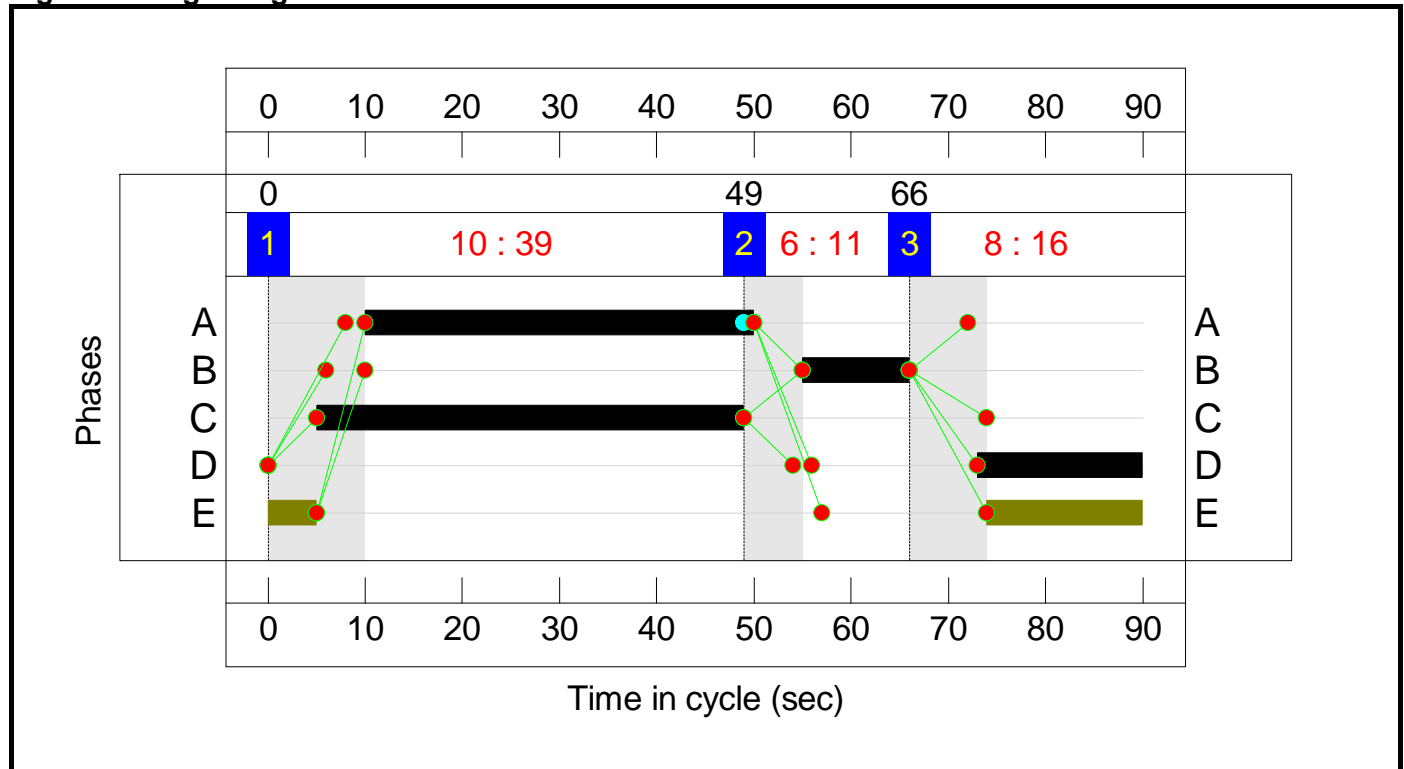
**Stage Sequence Diagram**



**Stage Timings**

Stage	1	2	3
Duration	39	11	16
Change Point	0	49	66

**Signal Timings Diagram**



**Network Results**

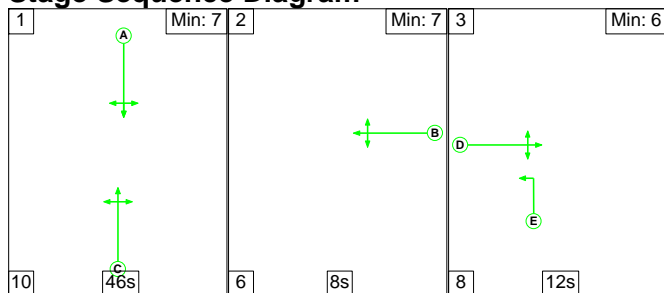
Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	76.0%
A666 Bolton Road - B6231 Sandy Lane - Bog Height Road	-	-	N/A	-	-		-	-	-	-	-	-	76.0%
1/1	A666 Bolton Road Left Ahead	U	N/A	N/A	A		1	40	-	525	1891	861	60.9%
1/2	A666 Bolton Road Ahead Right	O	N/A	N/A	A		1	40	-	566	2032	898	63.0%
2/1	B6231 Sandy Lane Right Left Ahead	U	N/A	N/A	B		1	11	-	167	1789	239	70.0%
3/2+3/1	A666 Blackburn Road Ahead Right Left	O+U	N/A	N/A	C	E	1	44:65	21	940	2064:1724	965+290	74.9 : 74.9%
4/1	Bog Height Road Left Ahead Right	U	N/A	N/A	D		1	17	-	272	1789	358	76.0%
5/1	A666 Bolton Road	U	N/A	N/A	-		-	-	-	717	Inf	Inf	0.0%
6/1	B6231 Sandy Lane	U	N/A	N/A	-		-	-	-	120	Inf	Inf	0.0%
7/1	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	489	Inf	Inf	0.0%
7/2	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	843	Inf	Inf	0.0%
8/1	Bog Height Road	U	N/A	N/A	-		-	-	-	301	Inf	Inf	0.0%

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	-	-	63	0	46	13.6	5.8	0.6	19.9	-	-	-	-
A666 Bolton Road - B6231 Sandy Lane - Bog Height Road	-	-	63	0	46	13.6	5.8	0.6	19.9	-	-	-	-
1/1	525	525	-	-	-	2.7	0.8	-	3.5	23.8	9.8	0.8	10.5
1/2	566	566	49	0	3	2.9	0.8	0.2	3.9	24.9	10.5	0.8	11.4
2/1	167	167	-	-	-	1.7	1.1	-	2.9	61.7	4.0	1.1	5.1
3/2+3/1	940	940	14	0	43	3.7	1.5	0.4	5.6	21.3	13.9	1.5	15.3
4/1	272	272	-	-	-	2.6	1.5	-	4.1	54.2	6.3	1.5	7.9
5/1	717	717	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	120	120	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	489	489	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	843	843	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	301	301	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
C1			PRC for Signalled Lanes (%):		18.4	Total Delay for Signalled Lanes (pcuHr):		19.92	Cycle Time (s):		90		
			PRC Over All Lanes (%):		18.4	Total Delay Over All Lanes (pcuHr):		19.92					



**Scenario 4: 'PM DM 2028'** (FG4: 'PM DM 2028', Plan 1: 'Network Control Plan 1')

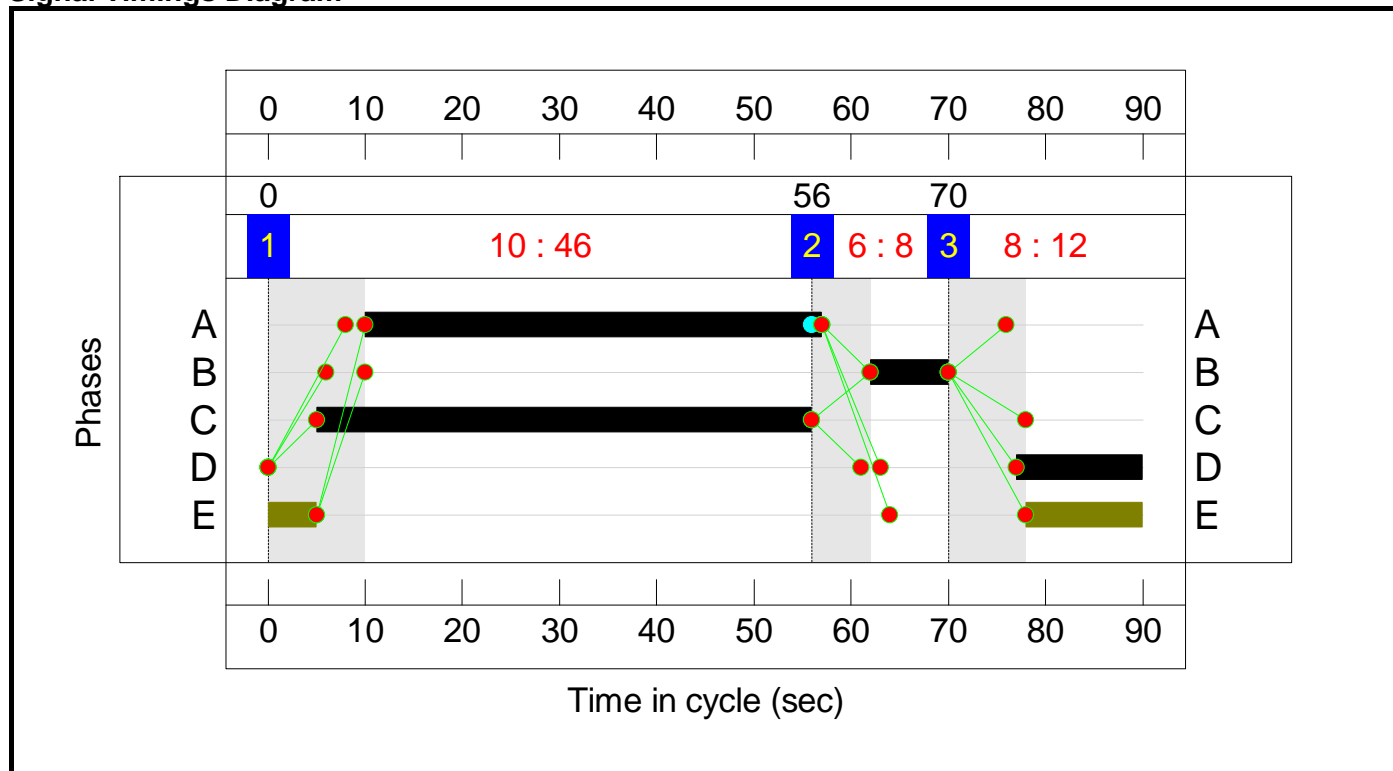
**Stage Sequence Diagram**



**Stage Timings**

Stage	1	2	3
Duration	46	8	12
Change Point	0	56	70

**Signal Timings Diagram**



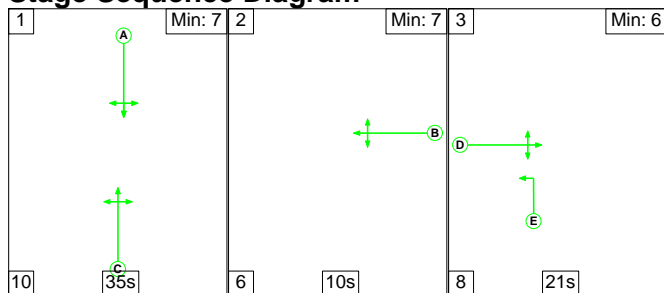
## Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	84.3%
A666 Bolton Road - B6231 Sandy Lane - Bog Height Road	-	-	N/A	-	-		-	-	-	-	-	-	84.3%
1/1	A666 Bolton Road Left Ahead	U	N/A	N/A	A		1	47	-	420	1892	1009	41.6%
1/2	A666 Bolton Road Ahead Right	O	N/A	N/A	A		1	47	-	397	2038	1059	37.5%
2/1	B6231 Sandy Lane Right Left Ahead	U	N/A	N/A	B		1	8	-	139	1810	181	76.8%
3/2+3/1	A666 Blackburn Road Ahead Right Left	O+U	N/A	N/A	C	E	1	51:68	17	1270	2068:1724	1050+457	84.3 : 84.3%
4/1	Bog Height Road Left Ahead Right	U	N/A	N/A	D		1	13	-	231	1788	278	83.1%
5/1	A666 Bolton Road	U	N/A	N/A	-		-	-	-	906	Inf	Inf	0.0%
6/1	B6231 Sandy Lane	U	N/A	N/A	-		-	-	-	115	Inf	Inf	0.0%
7/1	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	393	Inf	Inf	0.0%
7/2	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	577	Inf	Inf	0.0%
8/1	Bog Height Road	U	N/A	N/A	-		-	-	-	466	Inf	Inf	0.0%

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)
<b>Network</b>	-	-	61	0	17	10.5	7.1	0.3	17.8	-	-	-	-
<b>A666 Bolton Road - B6231 Sandy Lane - Bog Height Road</b>	-	-	61	0	17	10.5	7.1	0.3	17.8	-	-	-	-
1/1	420	420	-	-	-	1.5	0.4	-	1.8	15.6	6.2	0.4	6.5
1/2	397	397	10	0	16	1.3	0.3	0.2	1.8	16.5	5.7	0.3	6.0
2/1	139	139	-	-	-	1.5	1.5	-	3.1	79.4	3.4	1.5	4.9
3/2+3/1	1270	1270	50	0	2	3.8	2.6	0.1	6.5	18.4	16.2	2.6	18.9
4/1	231	231	-	-	-	2.4	2.2	-	4.6	71.7	5.6	2.2	7.8
5/1	906	906	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	115	115	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	393	393	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	577	577	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	466	466	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
<p>C1                      PRC for Signalled Lanes (%): 6.8                      Total Delay for Signalled Lanes (pcuHr): 17.81                      Cycle Time (s): 90                      PRC Over All Lanes (%): 6.8                      Total Delay Over All Lanes(pcuHr): 17.81</p>													

**Scenario 5: 'AM DS 2028'** (FG5: 'AM DS 2028', Plan 1: 'Network Control Plan 1')

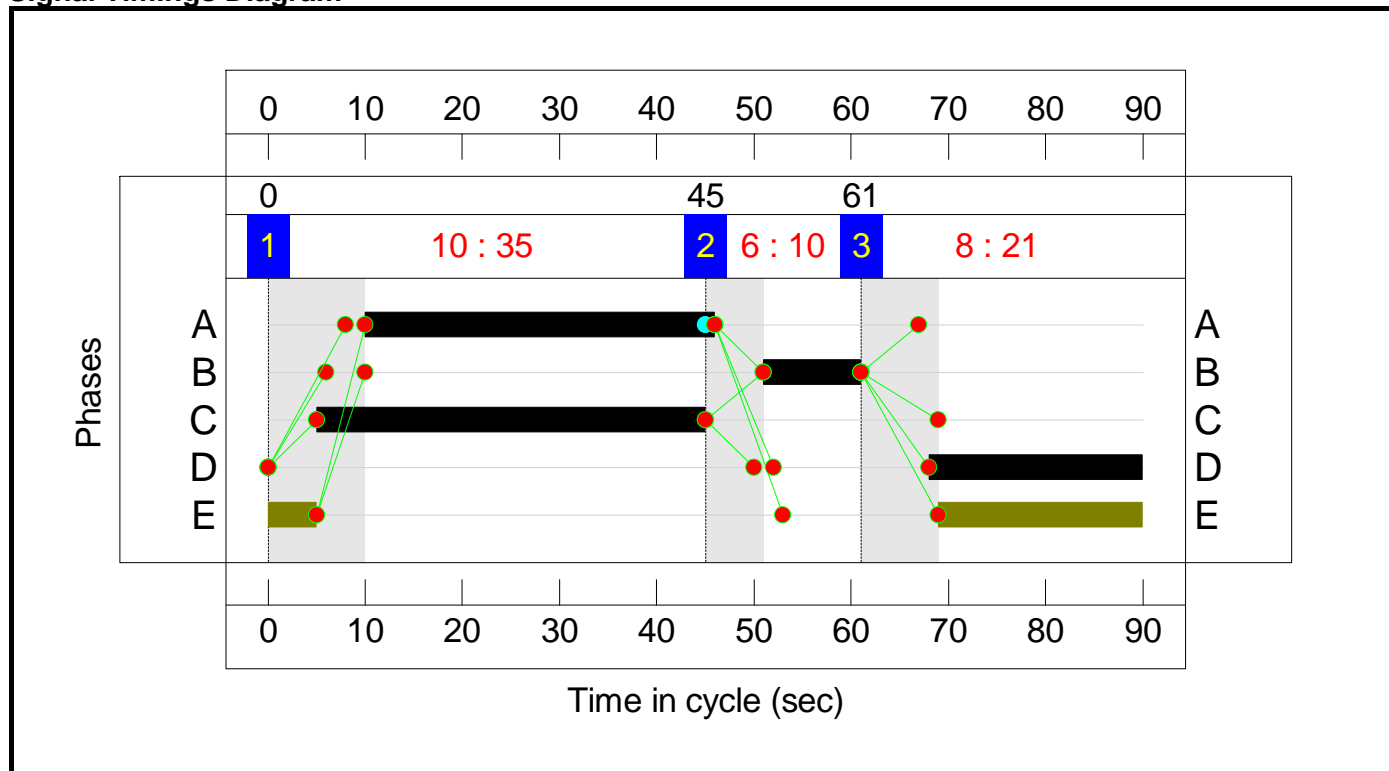
**Stage Sequence Diagram**



**Stage Timings**

Stage	1	2	3
Duration	35	10	21
Change Point	0	45	61

**Signal Timings Diagram**



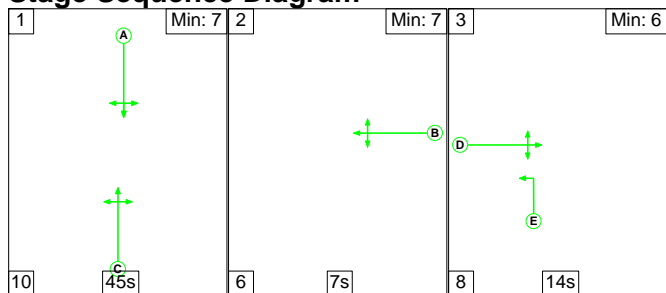
**Network Results**

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
<b>Network</b>	-	-	<b>N/A</b>	-	-		-	-	-	-	-	-	<b>81.2%</b>
<b>A666 Bolton Road - B6231 Sandy Lane - Bog Height Road</b>	-	-	<b>N/A</b>	-	-		-	-	-	-	-	-	<b>81.2%</b>
1/1	A666 Bolton Road Left Ahead	U	N/A	N/A	A		1	36	-	601	1894	779	77.2%
1/2	A666 Bolton Road Ahead Right	O	N/A	N/A	A		1	36	-	500	2029	792	63.1%
2/1	B6231 Sandy Lane Right Left Ahead	U	N/A	N/A	B		1	10	-	169	1790	219	77.2%
3/2+3/1	A666 Blackburn Road Ahead Right Left	O+U	N/A	N/A	C	E	1	40:66	26	967	2064:1724	894+297	81.2 : 81.2%
4/1	Bog Height Road Left Ahead Right	U	N/A	N/A	D		1	22	-	358	1789	457	78.3%
5/1	A666 Bolton Road	U	N/A	N/A	-		-	-	-	720	Inf	Inf	0.0%
6/1	B6231 Sandy Lane	U	N/A	N/A	-		-	-	-	125	Inf	Inf	0.0%
7/1	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	565	Inf	Inf	0.0%
7/2	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	858	Inf	Inf	0.0%
8/1	Bog Height Road	U	N/A	N/A	-		-	-	-	327	Inf	Inf	0.0%

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	-	-	42	0	67	16.0	8.0	0.6	24.5	-	-	-	-
A666 Bolton Road - B6231 Sandy Lane - Bog Height Road	-	-	42	0	67	16.0	8.0	0.6	24.5	-	-	-	-
1/1	601	601	-	-	-	3.8	1.7	-	5.5	32.8	12.9	1.7	14.5
1/2	500	500	24	0	28	2.9	0.8	0.2	4.0	28.6	9.7	0.8	10.6
2/1	169	169	-	-	-	1.8	1.6	-	3.4	72.3	4.1	1.6	5.7
3/2+3/1	967	967	18	0	39	4.4	2.1	0.3	6.8	25.4	15.1	2.1	17.2
4/1	358	358	-	-	-	3.1	1.7	-	4.8	48.7	8.3	1.7	10.0
5/1	720	720	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	125	125	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	565	565	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	858	858	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	327	327	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
C1			PRC for Signalled Lanes (%):		10.8	Total Delay for Signalled Lanes (pcuHr):		24.52	Cycle Time (s):		90		
			PRC Over All Lanes (%):		10.8	Total Delay Over All Lanes (pcuHr):		24.52					

**Scenario 6: 'PM DS 2028'** (FG6: 'PM DS 2028', Plan 1: 'Network Control Plan 1')

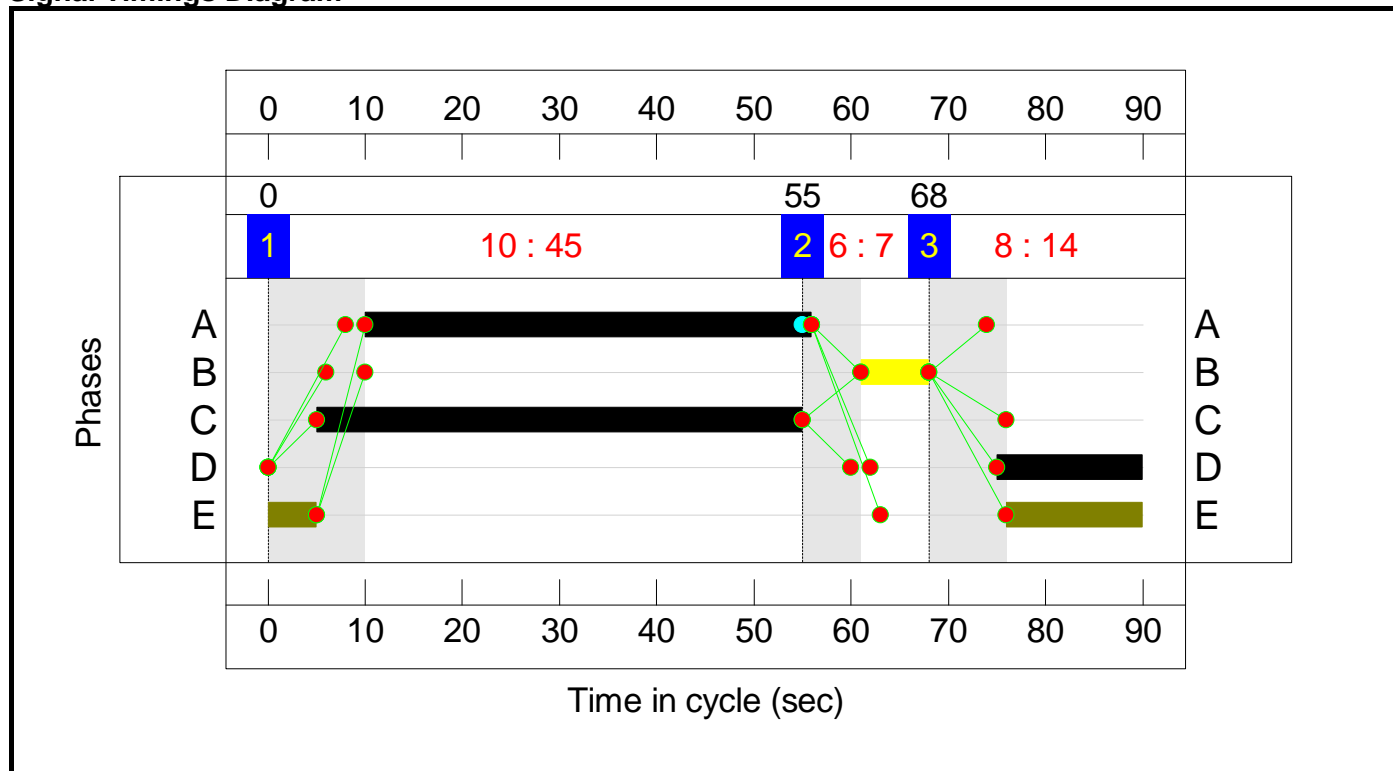
**Stage Sequence Diagram**



**Stage Timings**

Stage	1	2	3
Duration	45	7	14
Change Point	0	55	68

**Signal Timings Diagram**



**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)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network	-	-	N/A	-	-		-	-	-	-	-	-	88.8%
A666 Bolton Road - B6231 Sandy Lane - Bog Height Road	-	-	N/A	-	-		-	-	-	-	-	-	88.8%
1/1	A666 Bolton Road Left Ahead	U	N/A	N/A	A		1	46	-	436	1893	989	44.1%
1/2	A666 Bolton Road Ahead Right	O	N/A	N/A	A		1	46	-	386	2038	1064	36.3%
2/1	B6231 Sandy Lane Right Left Ahead	U	N/A	N/A	B		1	7	-	143	1812	161	88.8%
3/2+3/1	A666 Blackburn Road Ahead Right Left	O+U	N/A	N/A	C	E	1	50:69	19	1348	2068:1724	1020+520	87.6 : 87.6%
4/1	Bog Height Road Left Ahead Right	U	N/A	N/A	D		1	15	-	274	1789	318	86.2%
5/1	A666 Bolton Road	U	N/A	N/A	-		-	-	-	914	Inf	Inf	0.0%
6/1	B6231 Sandy Lane	U	N/A	N/A	-		-	-	-	117	Inf	Inf	0.0%
7/1	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	409	Inf	Inf	0.0%
7/2	A666 Blackburn Road	U	N/A	N/A	-		-	-	-	607	Inf	Inf	0.0%
8/1	Bog Height Road	U	N/A	N/A	-		-	-	-	540	Inf	Inf	0.0%



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)
<b>Network</b>	-	-	50	0	28	11.4	9.8	0.3	21.5	-	-	-	-
<b>A666 Bolton Road - B6231 Sandy Lane - Bog Height Road</b>	-	-	50	0	28	11.4	9.8	0.3	21.5	-	-	-	-
1/1	436	436	-	-	-	1.6	0.4	-	2.0	16.6	6.7	0.4	7.1
1/2	386	386	0	0	26	1.4	0.3	0.2	1.8	17.2	5.7	0.3	6.0
2/1	143	143	-	-	-	1.6	3.0	-	4.6	115.5	3.5	3.0	6.5
3/2+3/1	1348	1348	50	0	2	4.1	3.4	0.1	7.5	20.1	16.9	3.4	20.3
4/1	274	274	-	-	-	2.7	2.8	-	5.5	72.2	6.6	2.8	9.4
5/1	914	914	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	117	117	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	409	409	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	607	607	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	540	540	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
C1      PRC for Signalled Lanes (%): 1.4      Total Delay for Signalled Lanes (pcuHr): 21.49      Cycle Time (s): 90 PRC Over All Lanes (%): 1.4      Total Delay Over All Lanes(pcuHr): 21.49													