Appendix U

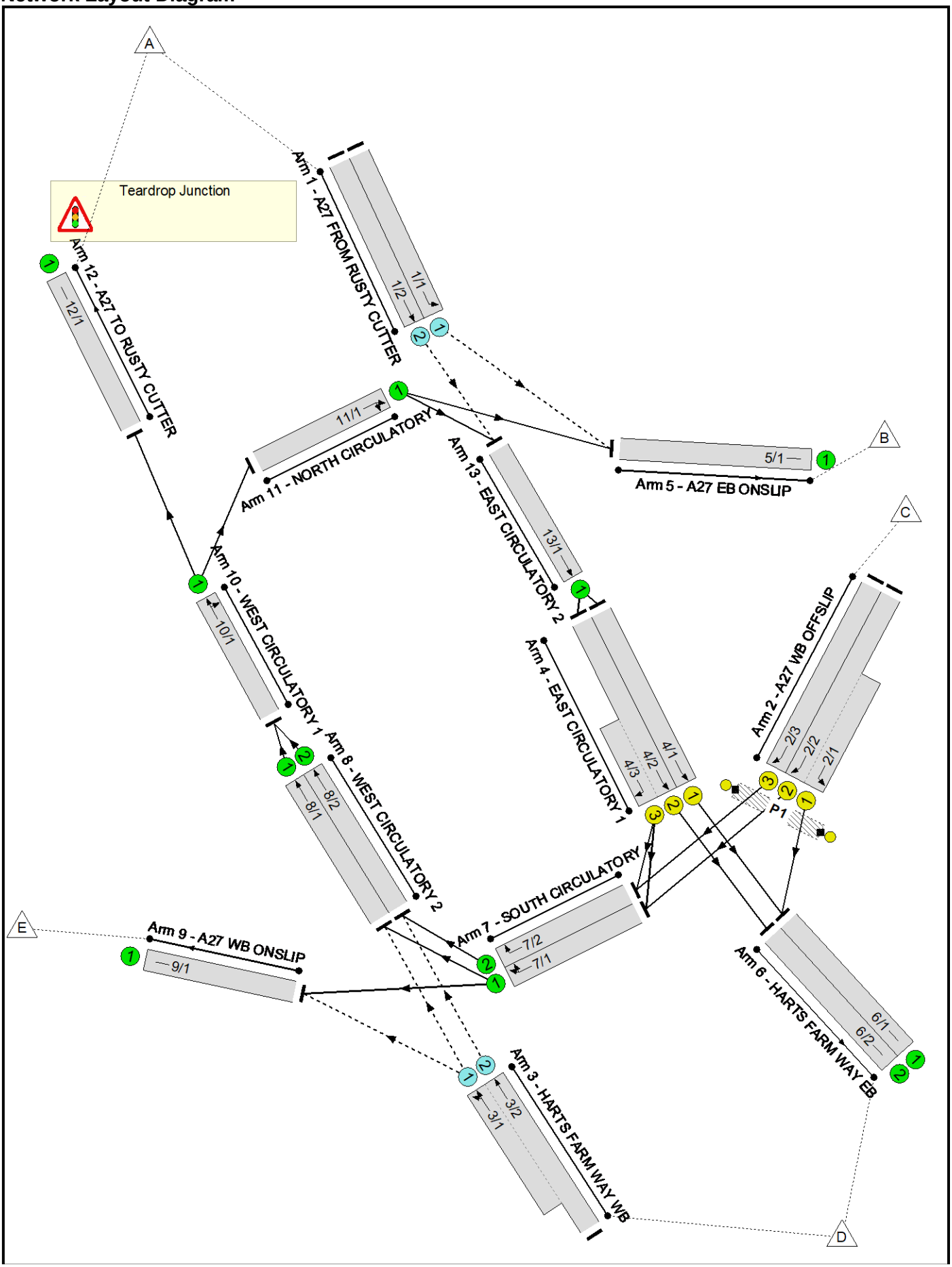
Full Input Data And Results

User and Project Details

Project:	**Forty Acre Farm, Bedhampton**
Title:	**A27 Teardrop Junction Modelling**
Location:	Bedhampton
Additional detail:	
File name:	Teardrop v9 - With Optimisation (Revised HE comments).lsg3x
Author:	
Company:	Paul Basham Associates
Address:	

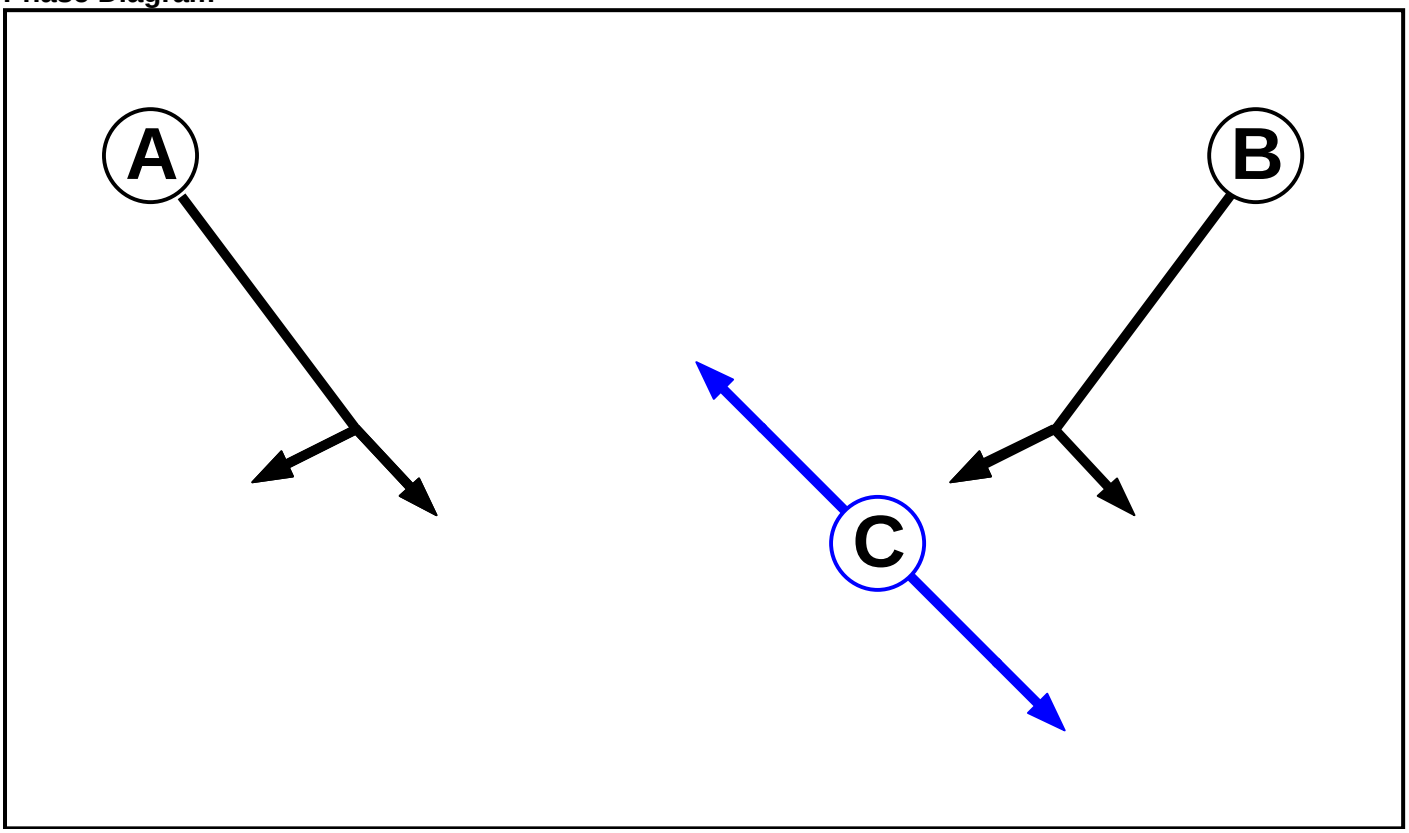
Full Input Data And Results

Network Layout Diagram



Full Input Data And Results

Phase Diagram



Phase Input Data

Phase Name	Phase Type	Assoc. Phase	Street Min	Cont Min
A	Traffic		7	7
B	Traffic		7	7
C	Pedestrian		6	6

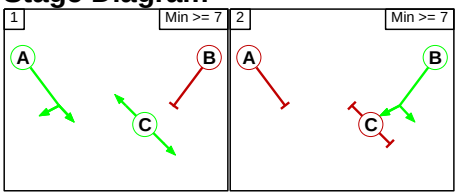
Phase Intergreens Matrix

	Starting Phase			
Terminating Phase		A	B	C
	A		6	-
	B	7		6
	C	-	0	

Phases in Stage

Stage No.	Phases in Stage
1	A C
2	B

Stage Diagram



Full Input Data And Results

Phase Delays

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

Prohibited Stage Change

	To Stage		
		1	2
From Stage	1		6
	2	7	

Full Input Data And Results

Give-Way Lane Input Data

Junction: Teardrop 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)**
1/1 (A27 FROM RUSTY CUTTER)	5/1 (Left)	2532	0	11/1	0.82	To 5/1 (Ahead)	-	-	-	-	-
1/2 (A27 FROM RUSTY CUTTER)	13/1 (Ahead)	2532	0	11/1	0.82	All	-	-	-	-	-
3/1 (HARTS FARM WAY WB)	8/1 (Ahead)	1211	0	7/1	0.38	All	-	-	-	-	-
	9/1 (Left)	1211	0	7/1	0.38	All					
3/2 (HARTS FARM WAY WB)	8/2 (Ahead)	1211	0	7/1	0.38	All	-	-	-	-	-
				7/2	0.38	All					

Full Input Data And Results

Lane Input Data

Full Input Data And Results

Junction: Teardrop Junction												
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 (A27 FROM RUSTY CUTTER)	O		2	3	60.0	Geom	-	5.00	0.00	Y	Arm 5 Left	42.71
1/2 (A27 FROM RUSTY CUTTER)	O		2	3	60.0	Geom	-	5.00	0.00	Y	Arm 13 Ahead	10.00
2/1 (A27 WB OFFSLIP)	U	B	2	3	8.7	Geom	-	3.80	0.00	Y	Arm 6 Left	91.34
2/2 (A27 WB OFFSLIP)	U	B	2	3	81.7	Geom	-	3.80	0.00	N	Arm 7 Ahead	17.00
2/3 (A27 WB OFFSLIP)	U	B	2	3	81.7	Geom	-	3.80	0.00	N	Arm 7 Ahead	17.00
3/1 (HARTS FARM WAY WB)	O		2	3	12.2	Geom	-	3.90	0.00	Y	Arm 8 Ahead	Inf
											Arm 9 Left	27.22
3/2 (HARTS FARM WAY WB)	O		2	3	60.0	Geom	-	3.90	0.00	Y	Arm 8 Ahead	Inf
4/1 (EAST CIRCULATORY 1)	U	A	2	3	6.1	Geom	-	3.25	0.00	Y	Arm 6 Ahead	Inf
4/2 (EAST CIRCULATORY 1)	U	A	2	3	60.0	Geom	-	3.25	0.00	N	Arm 6 Ahead	Inf
4/3 (EAST CIRCULATORY 1)	U	A	2	3	6.1	Geom	-	3.25	0.00	N	Arm 7 Right	17.00
5/1 (A27 EB ONSLIP)	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1 (HARTS FARM WAY EB)	U		2	3	60.0	Inf	-	-	-	-	-	-
6/2 (HARTS FARM WAY EB)	U		2	3	60.0	Inf	-	-	-	-	-	-
7/1 (SOUTH CIRCULATORY)	U		2	3	60.0	Inf	-	-	-	-	-	-

7/2 (SOUTH CIRCULATORY)	U		2	3	60.0	Inf	-	-	-	-	-	-
8/1 (WEST CIRCULATORY 2)	U		2	3	60.0	Inf	-	-	-	-	-	-
8/2 (WEST CIRCULATORY 2)	U		2	3	60.0	Inf	-	-	-	-	-	-
9/1 (A27 WB ONSLIP)	U		2	3	60.0	Inf	-	-	-	-	-	-
10/1 (WEST CIRCULATORY 1)	U		2	3	60.0	Inf	-	-	-	-	-	-
11/1 (NORTH CIRCULATORY)	U		2	3	60.0	Inf	-	-	-	-	-	-
12/1 (A27 TO RUSTY CUTTER)	U		2	3	60.0	Inf	-	-	-	-	-	-
13/1 (EAST CIRCULATORY 2)	U		2	3	60.0	Inf	-	-	-	-	-	-

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: 'Base 2016 AM'	07:30	08:30	01:00	
2: 'Base 2016 PM'	16:00	17:00	01:00	
3: 'Base 2023 AM'	07:30	08:30	01:00	
4: 'Base 2023 PM'	16:00	17:00	01:00	
5: 'Base 2023 Plus Com Dev AM'	07:30	08:30	01:00	
6: 'Base 2023 Plus Com Dev PM'	16:00	17:00	01:00	
7: 'Base 2023 Plus Com Dev Plus 50% Prop Dev AM'	07:30	08:30	01:00	
8: 'Base 2023 Plus Com Dev Plus 50% Prop Dev PM'	16:00	17:00	01:00	
9: 'Base 2028 AM'	07:30	08:30	01:00	
10: 'Base 2028 PM'	16:00	17:00	01:00	
11: 'Base 2028 Plus Com Dev AM'	07:30	08:30	01:00	
12: 'Base 2028 Plus Com Dev PM'	16:00	17:00	01:00	
13: 'Base 2028 Plus Com Dev Plus Prop Dev AM'	07:30	08:30	01:00	
14: 'Base 2028 Plus Com Dev Plus Prop Dev PM'	16:00	17:00	01:00	
15: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test AM'	07:30	08:30	01:00	
16: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test PM'	16:00	17:00	01:00	

Scenario 1: 'Base 2016 AM' (FG1: 'Base 2016 AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	7	868	0	1032	291	2198
	B	0	0	0	0	0	0
	C	868	5	0	66	46	985
	D	165	15	0	0	137	317
	E	0	0	0	0	0	0
	Tot.	1040	888	0	1098	474	3500

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 1: Base 2016 AM
Junction: Teardrop Junction	
1/1	868
1/2	1330
2/1 (short)	66
2/2 (with short)	397(In) 331(Out)
2/3	588
3/1 (short)	312
3/2 (with short)	317(In) 5(Out)
4/1	508
4/2 (with short)	822(In) 524(Out)
4/3 (short)	298
5/1	888
6/1	574
6/2	524
7/1	626
7/2	591
8/1	464
8/2	596
9/1	474
10/1	1060
11/1	20
12/1	1040
13/1	1330

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	56.1 % 43.9 %	1958	1958
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 2: 'Base 2016 PM' (FG2: 'Base 2016 PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	2	941	0	328	296	1567
	B	0	0	0	0	0	0
	C	813	3	0	46	8	870
	D	501	22	0	0	597	1120
	E	0	0	0	0	0	0
	Tot.	1316	966	0	374	901	3557

Traffic Lane Flows

Lane	Scenario 2: Base 2016 PM
Junction: Teardrop Junction	
1/1	941
1/2	626
2/1 (short)	46
2/2 (with short)	326(In) 280(Out)
2/3	544
3/1 (short)	824
3/2 (with short)	1120(In) 296(Out)
4/1	195
4/2 (with short)	431(In) 133(Out)
4/3 (short)	298
5/1	966
6/1	241
6/2	133
7/1	577
7/2	545
8/1	500
8/2	841
9/1	901
10/1	1341
11/1	25
12/1	1316
13/1	626

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	27.5 % 72.5 %	1928	1928
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 3: 'Base 2023 AM' (FG3: 'Base 2023 AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	8	972	0	1155	326	2461
	B	0	0	0	0	0	0
	C	972	6	0	74	51	1103
	D	186	15	0	0	153	354
	E	0	0	0	0	0	0
	Tot.	1166	993	0	1229	530	3918

Traffic Lane Flows

Lane	Scenario 3: Base 2023 AM
Junction: Teardrop Junction	
1/1	972
1/2	1489
2/1 (short)	74
2/2 (with short)	452(In) 378(Out)
2/3	651
3/1 (short)	352
3/2 (with short)	354(In) 2(Out)
4/1	583
4/2 (with short)	906(In) 572(Out)
4/3 (short)	334
5/1	993
6/1	657
6/2	572
7/1	708
7/2	655
8/1	530
8/2	657
9/1	530
10/1	1187
11/1	21
12/1	1166
13/1	1489

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	56.5 % 43.5 %	1958	1958
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 4: 'Base 2023 PM' (FG4: 'Base 2023 PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	2	1048	0	365	330	1745
	B	0	0	0	0	0	0
	C	905	3	0	51	9	968
	D	570	22	0	0	655	1247
	E	0	0	0	0	0	0
	Tot.	1477	1073	0	416	994	3960

Traffic Lane Flows

Lane	Scenario 4: Base 2023 PM
Junction: Teardrop Junction	
1/1	1048
1/2	697
2/1 (short)	51
2/2 (with short)	362(In) 311(Out)
2/3	606
3/1 (short)	894
3/2 (with short)	1247(In) 353(Out)
4/1	255
4/2 (with short)	442(In) 110(Out)
4/3 (short)	332
5/1	1073
6/1	306
6/2	110
7/1	642
7/2	607
8/1	542
8/2	960
9/1	994
10/1	1502
11/1	25
12/1	1477
13/1	697

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	26.7 % 73.3 %	1927	1927
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 5: 'Base 2023 Plus Com Dev AM' (FG5: 'Base 2023 Plus Com Dev AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	8	974	0	1155	326	2463
	B	0	0	0	0	0	0
	C	972	6	0	74	51	1103
	D	186	15	0	0	153	354
	E	0	0	0	0	0	0
	Tot.	1166	995	0	1229	530	3920

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 5: Base 2023 Plus Com Dev AM
Junction: Teardrop Junction	
1/1	974
1/2	1489
2/1 (short)	74
2/2 (with short)	452(In) 378(Out)
2/3	651
3/1 (short)	352
3/2 (with short)	354(In) 2(Out)
4/1	583
4/2 (with short)	906(In) 572(Out)
4/3 (short)	334
5/1	995
6/1	657
6/2	572
7/1	708
7/2	655
8/1	530
8/2	657
9/1	530
10/1	1187
11/1	21
12/1	1166
13/1	1489

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	56.5 % 43.5 %	1958	1958
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 6: 'Base 2023 Plus Com Dev PM' (FG6: 'Base 2023 Plus Com Dev PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	2	1053	0	365	330	1750
	B	0	0	0	0	0	0
	C	910	3	0	51	9	973
	D	570	22	0	0	655	1247
	E	0	0	0	0	0	0
	Tot.	1482	1078	0	416	994	3970

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 6: Base 2023 Plus Com Dev PM
Junction: Teardrop Junction	
1/1	1053
1/2	697
2/1 (short)	51
2/2 (with short)	363(In) 312(Out)
2/3	610
3/1 (short)	907
3/2 (with short)	1247(In) 340(Out)
4/1	222
4/2 (with short)	475(In) 143(Out)
4/3 (short)	332
5/1	1078
6/1	273
6/2	143
7/1	643
7/2	611
8/1	556
8/2	951
9/1	994
10/1	1507
11/1	25
12/1	1482
13/1	697

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	27.8 % 72.2 %	1928	1928
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 7: 'Base 2023 Plus Com Dev Plus 50% Prop Dev AM' (FG7: 'Base 2023 Plus Com Dev Plus 50% Prop Dev AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	8	986	0	1155	348	2497
	B	0	0	0	0	0	0
	C	977	6	0	74	51	1108
	D	186	15	0	0	153	354
	E	0	0	0	0	0	0
	Tot.	1171	1007	0	1229	552	3959

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 7: Base 2023 Plus Com Dev Plus 50% Prop Dev AM
Junction: Teardrop Junction	
1/1	986
1/2	1511
2/1 (short)	74
2/2 (with short)	453(In) 379(Out)
2/3	655
3/1 (short)	352
3/2 (with short)	354(In) 2(Out)
4/1	585
4/2 (with short)	926(In) 570(Out)
4/3 (short)	356
5/1	1007
6/1	659
6/2	570
7/1	731
7/2	659
8/1	531
8/2	661
9/1	552
10/1	1192
11/1	21
12/1	1171
13/1	1511

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	56.5 % 43.5 %	1958	1958
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 8: 'Base 2023 Plus Com Dev Plus 50% Prop Dev PM' (FG8: 'Base 2023 Plus Com Dev Plus 50% Prop Dev PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	2	1059	0	365	341	1767
	B	0	0	0	0	0	0
	C	921	3	0	51	9	984
	D	570	22	0	0	655	1247
	E	0	0	0	0	0	0
	Tot.	1493	1084	0	416	1005	3998

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 8: Base 2023 Plus Com Dev Plus 50% Prop Dev PM
Junction: Teardrop Junction	
1/1	1059
1/2	708
2/1 (short)	51
2/2 (with short)	367(In) 316(Out)
2/3	617
3/1 (short)	904
3/2 (with short)	1247(In) 343(Out)
4/1	243
4/2 (with short)	465(In) 122(Out)
4/3 (short)	343
5/1	1084
6/1	294
6/2	122
7/1	658
7/2	618
8/1	557
8/2	961
9/1	1005
10/1	1518
11/1	25
12/1	1493
13/1	708

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	27.5 % 72.5 %	1928	1928
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 9: 'Base 2028 AM' (FG9: 'Base 2028 AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	8	1021	0	1213	342	2584
	B	0	0	0	0	0	0
	C	1021	6	0	78	54	1159
	D	197	15	0	0	161	373
	E	0	0	0	0	0	0
	Tot.	1226	1042	0	1291	557	4116

Traffic Lane Flows

Lane	Scenario 9: Base 2028 AM
Junction: Teardrop Junction	
1/1	1021
1/2	1563
2/1 (short)	78
2/2 (with short)	475(In) 397(Out)
2/3	684
3/1 (short)	372
3/2 (with short)	373(In) 1(Out)
4/1	619
4/2 (with short)	944(In) 594(Out)
4/3 (short)	350
5/1	1042
6/1	697
6/2	594
7/1	743
7/2	688
8/1	558
8/2	689
9/1	557
10/1	1247
11/1	21
12/1	1226
13/1	1563

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	56.7 % 43.3 %	1958	1958
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 10: 'Base 2028 PM' (FG10: 'Base 2028 PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	2	1100	0	384	346	1832
	B	0	0	0	0	0	0
	C	951	4	0	54	9	1018
	D	590	22	0	0	698	1310
	E	0	0	0	0	0	0
	Tot.	1543	1126	0	438	1053	4160

Traffic Lane Flows

Lane	Scenario 10: Base 2028 PM
Junction: Teardrop Junction	
1/1	1100
1/2	732
2/1 (short)	54
2/2 (with short)	381(In) 327(Out)
2/3	637
3/1 (short)	933
3/2 (with short)	1310(In) 377(Out)
4/1	246
4/2 (with short)	486(In) 138(Out)
4/3 (short)	348
5/1	1126
6/1	300
6/2	138
7/1	674
7/2	638
8/1	554
8/2	1015
9/1	1053
10/1	1569
11/1	26
12/1	1543
13/1	732

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	25.2 % 74.8 %	1926	1926
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 11: 'Base 2028 Plus Com Dev AM' (FG11: 'Base 2028 Plus Com Dev AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	8	1023	0	1213	342	2586
	B	0	0	0	0	0	0
	C	1021	6	0	78	54	1159
	D	197	15	0	0	161	373
	E	0	0	0	0	0	0
	Tot.	1226	1044	0	1291	557	4118

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 11: Base 2028 Plus Com Dev AM
Junction: Teardrop Junction	
1/1	1023
1/2	1563
2/1 (short)	78
2/2 (with short)	475(In) 397(Out)
2/3	684
3/1 (short)	371
3/2 (with short)	373(In) 2(Out)
4/1	619
4/2 (with short)	944(In) 594(Out)
4/3 (short)	350
5/1	1044
6/1	697
6/2	594
7/1	743
7/2	688
8/1	557
8/2	690
9/1	557
10/1	1247
11/1	21
12/1	1226
13/1	1563

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	56.6 % 43.4 %	1958	1958
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 12: 'Base 2028 Plus Com Dev PM' (FG12: 'Base 2028 Plus Com Dev PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	2	1105	0	384	346	1837
	B	0	0	0	0	0	0
	C	955	4	0	54	9	1022
	D	590	22	0	0	698	1310
	E	0	0	0	0	0	0
	Tot.	1547	1131	0	438	1053	4169

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 12: Base 2028 Plus Com Dev PM
Junction: Teardrop Junction	
1/1	1105
1/2	732
2/1 (short)	54
2/2 (with short)	382(In) 328(Out)
2/3	640
3/1 (short)	926
3/2 (with short)	1310(In) 384(Out)
4/1	283
4/2 (with short)	449(In) 101(Out)
4/3 (short)	348
5/1	1131
6/1	337
6/2	101
7/1	675
7/2	641
8/1	548
8/2	1025
9/1	1053
10/1	1573
11/1	26
12/1	1547
13/1	732

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	24.6 % 75.4 %	1925	1925
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 13: 'Base 2028 Plus Com Dev Plus Prop Dev AM' (FG13: 'Base 2028 Plus Com Dev Plus Prop Dev AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	8	1048	0	1213	386	2655
	B	0	0	0	0	0	0
	C	1031	6	0	78	54	1169
	D	197	15	0	0	161	373
	E	0	0	0	0	0	0
	Tot.	1236	1069	0	1291	601	4197

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 13: Base 2028 Plus Com Dev Plus Prop Dev AM
Junction: Teardrop Junction	
1/1	1048
1/2	1607
2/1 (short)	78
2/2 (with short)	478(In) 400(Out)
2/3	691
3/1 (short)	372
3/2 (with short)	373(In) 1(Out)
4/1	624
4/2 (with short)	983(In) 589(Out)
4/3 (short)	394
5/1	1069
6/1	702
6/2	589
7/1	790
7/2	695
8/1	561
8/2	696
9/1	601
10/1	1257
11/1	21
12/1	1236
13/1	1607

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	56.7 % 43.3 %	1958	1958
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 14: 'Base 2028 Plus Com Dev Plus Prop Dev PM' (FG14: 'Base 2028 Plus Com Dev Plus Prop Dev PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	2	1118	0	384	370	1874
	B	0	0	0	0	0	0
	C	977	4	0	54	9	1044
	D	590	22	0	0	698	1310
	E	0	0	0	0	0	0
	Tot.	1569	1144	0	438	1077	4228

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 14: Base 2028 Plus Com Dev Plus Prop Dev PM
Junction: Teardrop Junction	
1/1	1118
1/2	756
2/1 (short)	54
2/2 (with short)	389(In) 335(Out)
2/3	655
3/1 (short)	915
3/2 (with short)	1310(In) 395(Out)
4/1	338
4/2 (with short)	418(In) 46(Out)
4/3 (short)	372
5/1	1144
6/1	392
6/2	46
7/1	706
7/2	656
8/1	544
8/2	1051
9/1	1077
10/1	1595
11/1	26
12/1	1569
13/1	756

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	23.7 % 76.3 %	1924	1924
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 15: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test AM' (FG15: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test AM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	8	1068	0	1213	386	2675
	B	0	0	0	0	0	0
	C	1038	6	0	78	54	1176
	D	197	15	0	0	161	373
	E	0	0	0	0	0	0
	Tot.	1243	1089	0	1291	601	4224

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 15: Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test AM
Junction: Teardrop Junction	
1/1	1068
1/2	1607
2/1 (short)	78
2/2 (with short)	480(In) 402(Out)
2/3	696
3/1 (short)	372
3/2 (with short)	373(In) 1(Out)
4/1	624
4/2 (with short)	983(In) 589(Out)
4/3 (short)	394
5/1	1089
6/1	702
6/2	589
7/1	792
7/2	700
8/1	563
8/2	701
9/1	601
10/1	1264
11/1	21
12/1	1243
13/1	1607

Full Input Data And Results

Lane Saturation Flows

Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	56.7 % 43.3 %	1958	1958
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 16: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test PM' (FG16: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test PM', Plan 1: 'Network Control Plan 1')

Traffic Flows, Desired

Desired Flow :

		Destination					
		A	B	C	D	E	Tot.
Origin	A	2	1128	0	384	370	1884
	B	0	0	0	0	0	0
	C	994	4	0	54	9	1061
	D	590	22	0	0	698	1310
	E	0	0	0	0	0	0
	Tot.	1586	1154	0	438	1077	4255

Full Input Data And Results

Traffic Lane Flows

Lane	Scenario 16: Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test PM
Junction: Teardrop Junction	
1/1	1128
1/2	756
2/1 (short)	54
2/2 (with short)	395(In) 341(Out)
2/3	666
3/1 (short)	915
3/2 (with short)	1310(In) 395(Out)
4/1	338
4/2 (with short)	418(In) 46(Out)
4/3 (short)	372
5/1	1154
6/1	392
6/2	46
7/1	712
7/2	667
8/1	550
8/2	1062
9/1	1077
10/1	1612
11/1	26
12/1	1586
13/1	756

Full Input Data And Results

Lane Saturation Flows

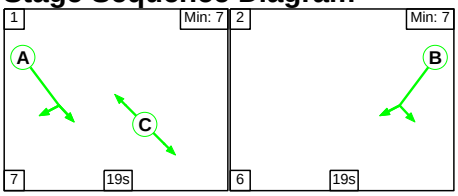
Full Input Data And Results

Junction: Teardrop 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 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 5 Left	42.71	100.0 %	2043	2043
1/2 (A27 FROM RUSTY CUTTER)	5.00	0.00	Y	Arm 13 Ahead	10.00	100.0 %	1839	1839
2/1 (A27 WB OFFSLIP)	3.80	0.00	Y	Arm 6 Left	91.34	100.0 %	1963	1963
2/2 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
2/3 (A27 WB OFFSLIP)	3.80	0.00	N	Arm 7 Ahead	17.00	100.0 %	1962	1962
3/1 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead Arm 9 Left	Inf 27.22	23.7 % 76.3 %	1924	1924
3/2 (HARTS FARM WAY WB)	3.90	0.00	Y	Arm 8 Ahead	Inf	100.0 %	2005	2005
4/1 (EAST CIRCULATORY 1)	3.25	0.00	Y	Arm 6 Ahead	Inf	100.0 %	1940	1940
4/2 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 6 Ahead	Inf	100.0 %	2080	2080
4/3 (EAST CIRCULATORY 1)	3.25	0.00	N	Arm 7 Right	17.00	100.0 %	1911	1911
5/1 (A27 EB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (HARTS FARM WAY EB Lane 1)	Infinite Saturation Flow						Inf	Inf
6/2 (HARTS FARM WAY EB Lane 2)	Infinite Saturation Flow						Inf	Inf
7/1 (SOUTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
7/2 (SOUTH CIRCULATORY Lane 2)	Infinite Saturation Flow						Inf	Inf
8/1 (WEST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow						Inf	Inf
8/2 (WEST CIRCULATORY 2 Lane 2)	Infinite Saturation Flow						Inf	Inf
9/1 (A27 WB ONSLIP Lane 1)	Infinite Saturation Flow						Inf	Inf
10/1 (WEST CIRCULATORY 1 Lane 1)	Infinite Saturation Flow						Inf	Inf
11/1 (NORTH CIRCULATORY Lane 1)	Infinite Saturation Flow						Inf	Inf
12/1 (A27 TO RUSTY CUTTER Lane 1)	Infinite Saturation Flow						Inf	Inf

13/1 (EAST CIRCULATORY 2 Lane 1)	Infinite Saturation Flow	Inf	Inf

Scenario 1: 'Base 2016 AM' (FG1: 'Base 2016 AM', Plan 1: 'Network Control Plan 1')

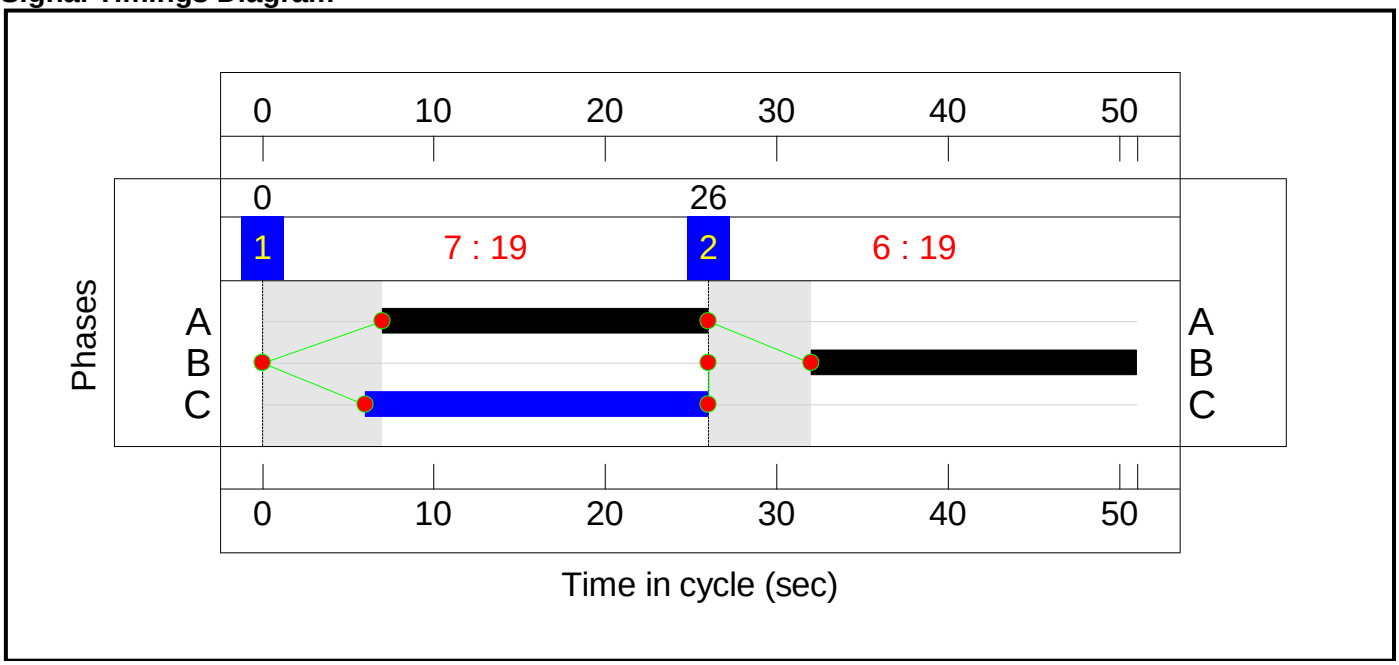
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	19	19
Change Point	0	26

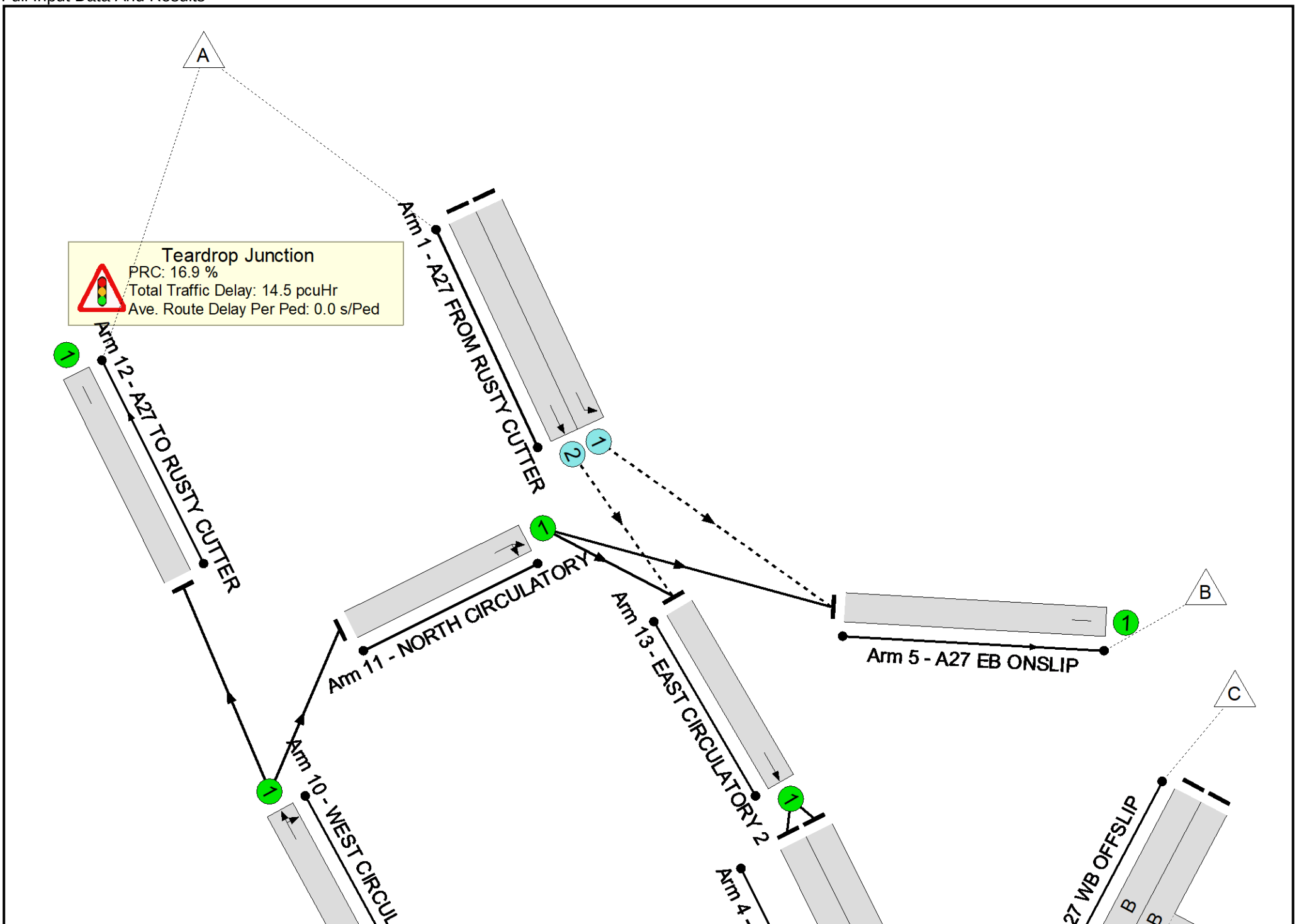
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**77.0%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**77.0%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	868	2043	2043	42.5%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	1330	1839	1839	72.3%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	397	1962:1963	753+150	43.9 : 43.9%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	588	1962	769	76.4%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	317	2005:1958	16+973	32.1 : 32.1%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	19	-	508	1940	761	66.8%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	19	-	822	2080:1911	681+387	77.0 : 77.0%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	888	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	574	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	524	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	626	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	591	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	464	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	596	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	474	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1060	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	20	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1040	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1330	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	20	-	0	-	0	0.0%

Full Input Data And Results

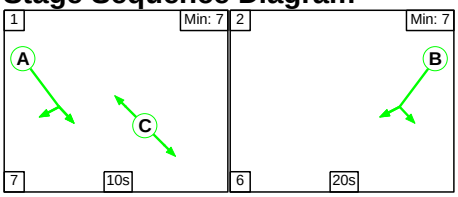
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**2832**	**0**	**0**	**8.0**	**6.5**	**0.0**	**14.5**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**2832**	**0**	**0**	**8.0**	**6.5**	**0.0**	**14.5**	**-**	**-**	**-**	**-**
1/1	868	868	868	0	0	0.0	0.4	-	0.4	1.5	0.0	0.4	0.4
1/2	1330	1330	1330	0	0	0.0	1.3	-	1.3	3.5	0.0	1.3	1.3
2/2+2/1	397	397	-	-	-	1.2	0.4	-	1.6	14.6	3.4	0.4	3.8
2/3	588	588	-	-	-	2.2	1.6	-	3.8	23.2	7.2	1.6	8.8
3/2+3/1	317	317	634	0	0	0.0	0.2	-	0.2	2.7	0.0	0.2	0.2
4/1	508	508	-	-	-	1.8	1.0	-	2.8	19.8	5.8	1.0	6.8
4/2+4/3	822	822	-	-	-	2.8	1.6	-	4.4	19.3	6.0	1.6	7.6
5/1	888	888	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	574	574	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	524	524	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	626	626	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	591	591	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	464	464	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	596	596	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	474	474	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1060	1060	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	20	20	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1040	1040	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	1330	1330	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 16.9 Total Delay for Signalled Lanes (pcuHr): 12.61 Cycle Time (s): 51
PRC Over All Lanes (%): 16.9 Total Delay Over All Lanes(pcuHr): 14.51

Full Input Data And Results

Scenario 2: 'Base 2016 PM' (FG2: 'Base 2016 PM', Plan 1: 'Network Control Plan 1')

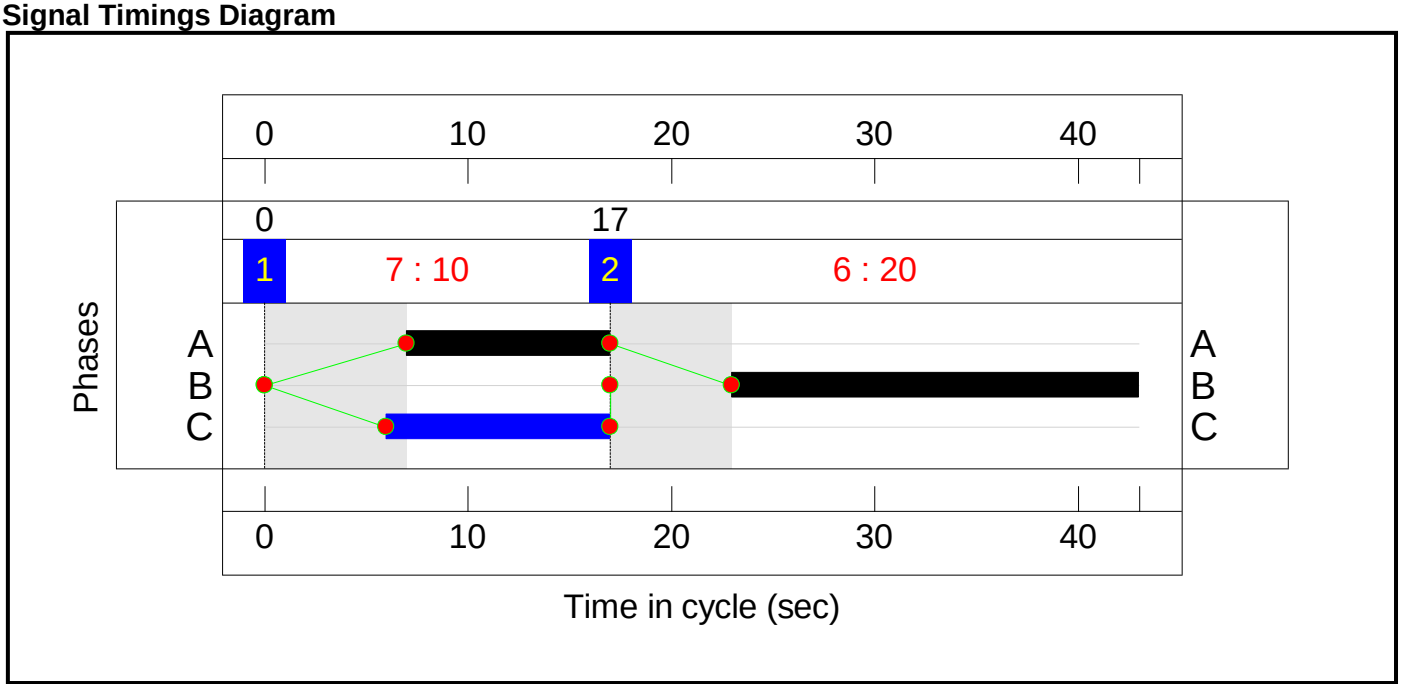
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	10	20
Change Point	0	17

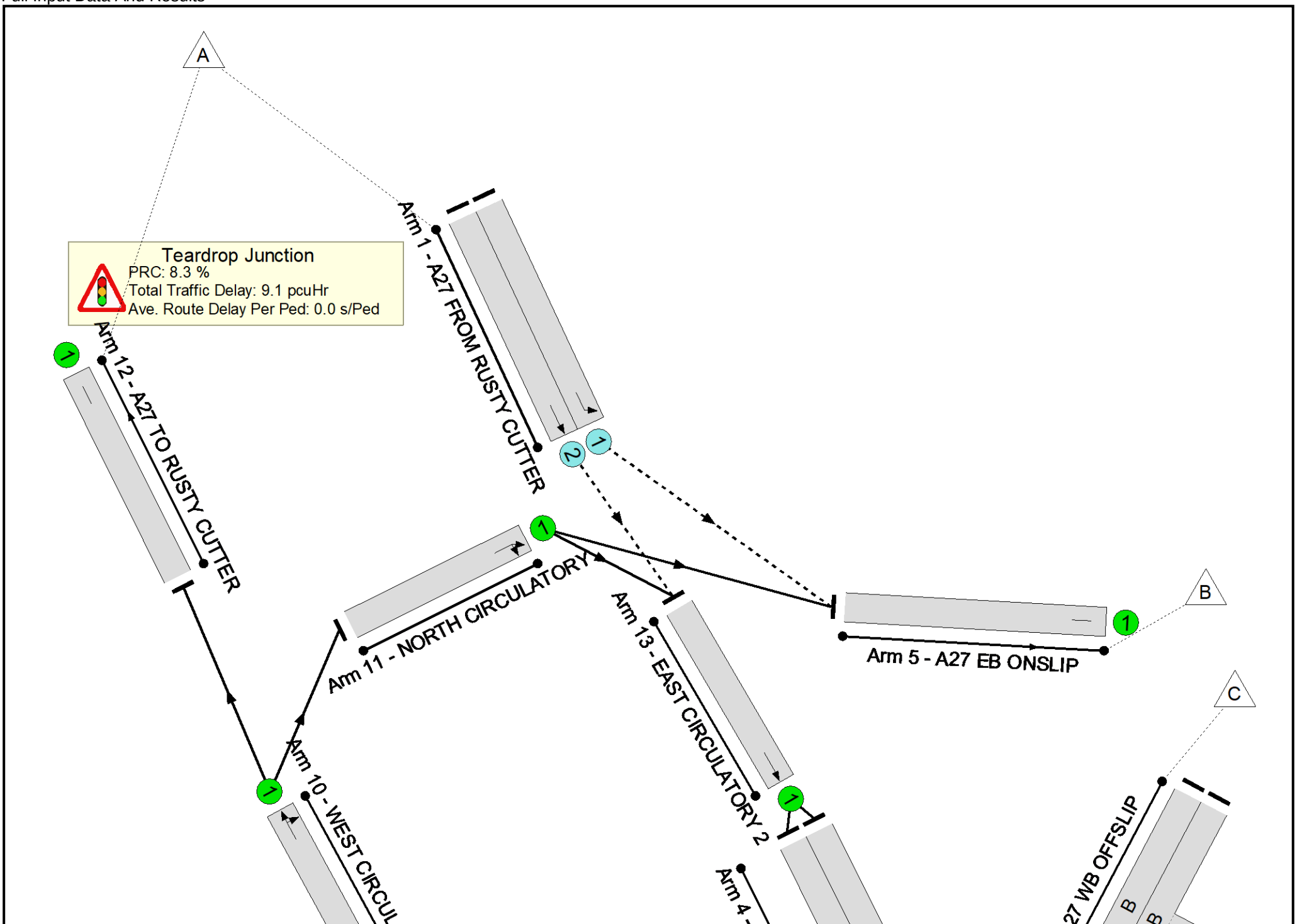
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**83.1%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**83.1%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	941	2043	2043	46.1%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	626	1839	1839	34.0%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	20	-	326	1962:1963	937+154	29.9 : 29.9%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	20	-	544	1962	958	56.8%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	1120	2005:1928	379+991	78.1 : 83.1%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	10	-	195	1940	496	39.3%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	10	-	431	2080:1911	218+489	61.0 : 61.0%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	966	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	241	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	133	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	577	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	545	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	500	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	841	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	901	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1341	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	25	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1316	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	626	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	11	-	0	-	0	0.0%

Full Input Data And Results

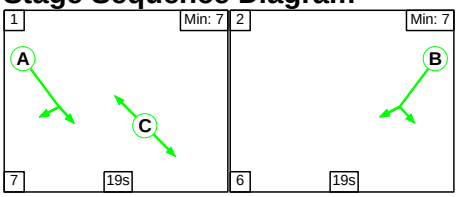
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**3807**	**0**	**0**	**4.3**	**4.8**	**0.0**	**9.1**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**3807**	**0**	**0**	**4.3**	**4.8**	**0.0**	**9.1**	**-**	**-**	**-**	**-**
1/1	941	941	941	0	0	0.0	0.4	-	0.4	1.6	0.0	0.4	0.4
1/2	626	626	626	0	0	0.0	0.3	-	0.3	1.5	0.0	0.3	0.3
2/2+2/1	326	326	-	-	-	0.6	0.2	-	0.8	8.8	1.9	0.2	2.2
2/3	544	544	-	-	-	1.2	0.7	-	1.8	12.1	4.5	0.7	5.2
3/2+3/1	1120	1120	2240	0	0	0.1	2.2	-	2.3	7.5	2.7	2.2	4.9
4/1	195	195	-	-	-	0.7	0.3	-	1.0	19.2	1.9	0.3	2.2
4/2+4/3	431	431	-	-	-	1.6	0.8	-	2.4	20.2	3.1	0.8	3.8
5/1	966	966	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	241	241	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	133	133	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	577	577	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	545	545	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	500	500	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	841	841	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	901	901	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1341	1341	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	25	25	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1316	1316	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	626	626	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 47.6 Total Delay for Signalled Lanes (pcuHr): 6.09 Cycle Time (s): 43
PRC Over All Lanes (%): 8.3 Total Delay Over All Lanes(pcuHr): 9.11

Full Input Data And Results

Scenario 3: 'Base 2023 AM' (FG3: 'Base 2023 AM', Plan 1: 'Network Control Plan 1')

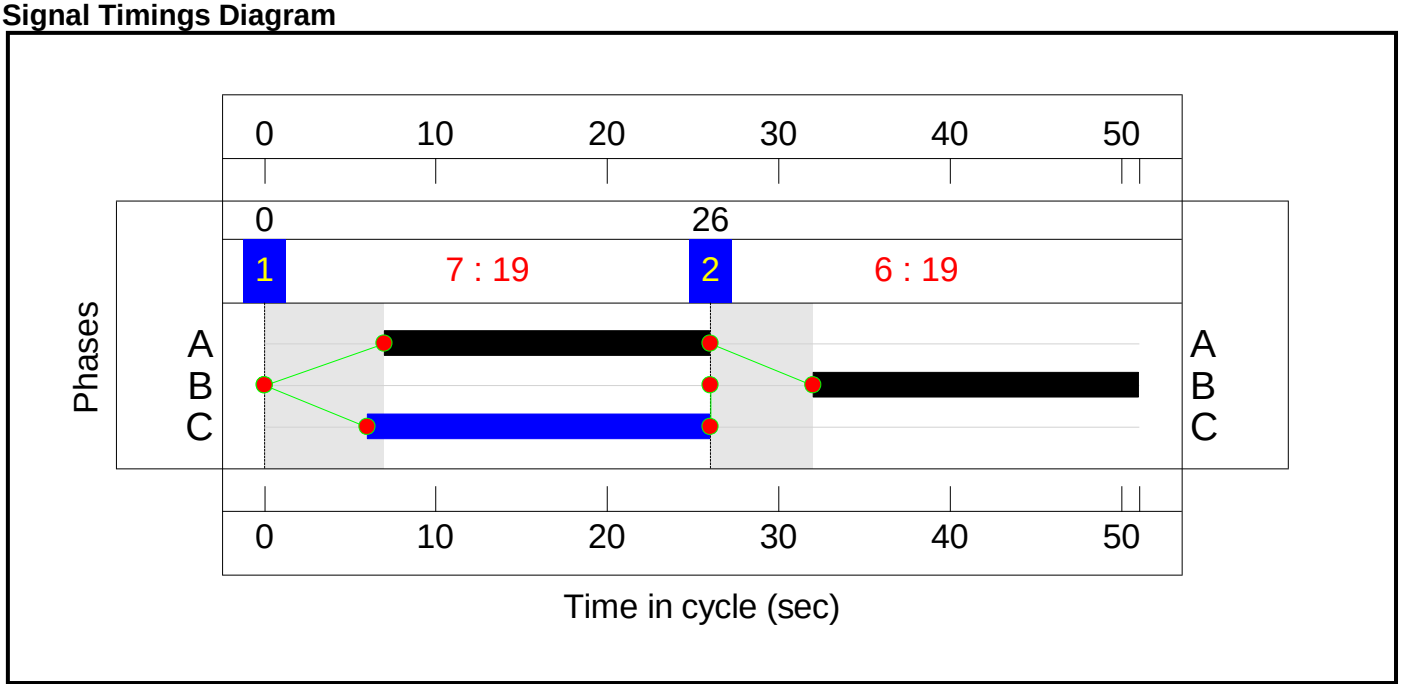
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	19	19
Change Point	0	26

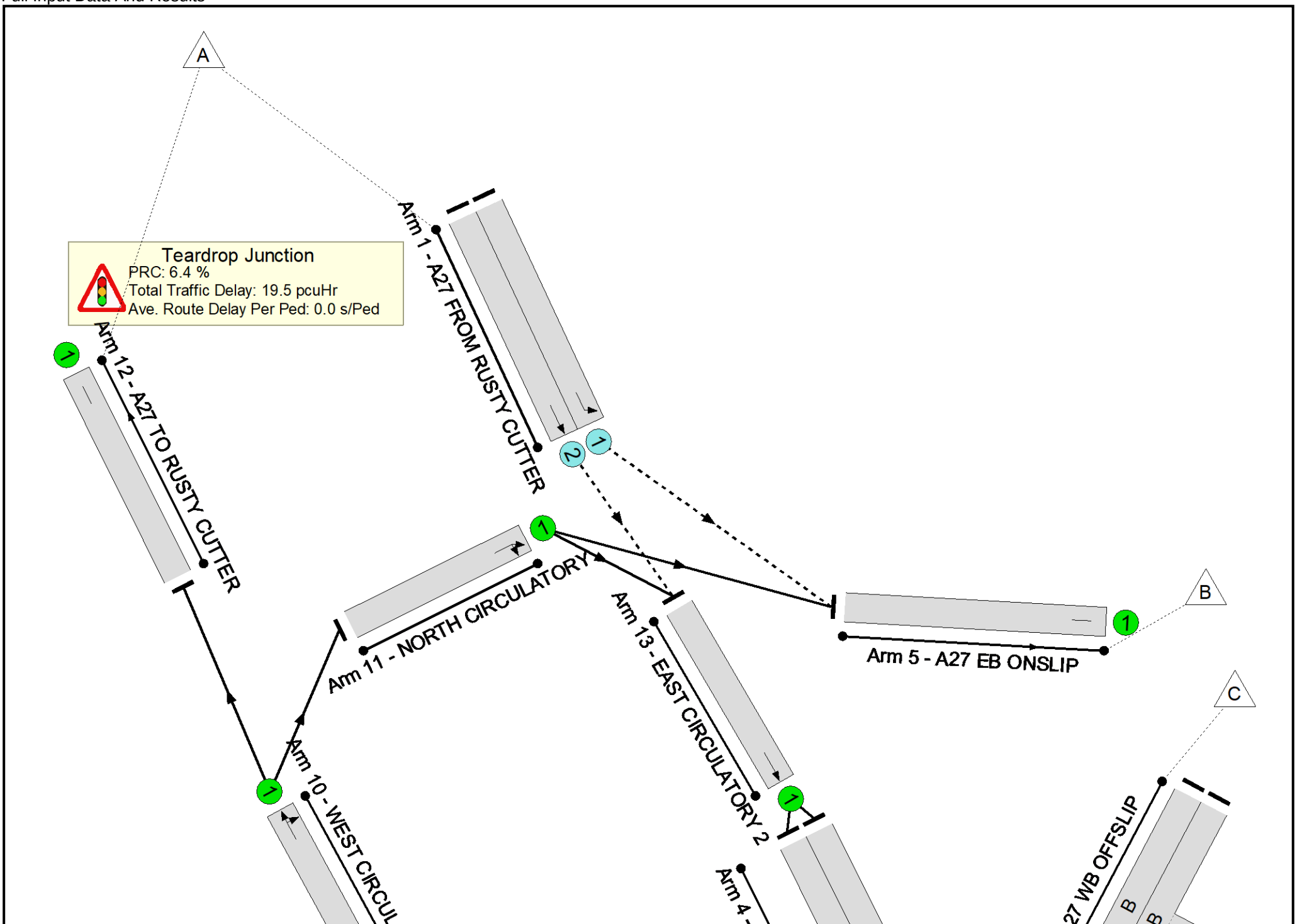
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**84.6%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**84.6%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	972	2043	2043	47.6%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	1489	1839	1839	81.0%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	452	1962:1963	754+148	50.2 : 50.2%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	651	1962	769	84.6%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	354	2005:1958	5+942	37.4 : 37.4%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	19	-	583	1940	761	76.6%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	19	-	906	2080:1911	678+396	84.3 : 84.3%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	993	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	657	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	572	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	708	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	655	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	530	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	657	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	530	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1187	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	21	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1166	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1489	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	20	-	0	-	0	0.0%

Full Input Data And Results

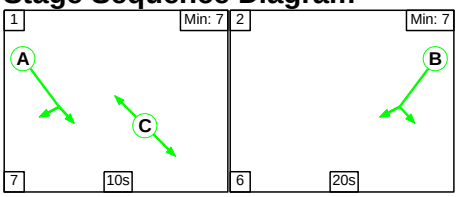
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**3169**	**0**	**0**	**9.3**	**10.2**	**0.0**	**19.5**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**3169**	**0**	**0**	**9.3**	**10.2**	**0.0**	**19.5**	**-**	**-**	**-**	**-**
1/1	972	972	972	0	0	0.0	0.5	-	0.5	1.7	0.0	0.5	0.5
1/2	1489	1489	1489	0	0	0.0	2.1	-	2.1	5.1	0.0	2.1	2.1
2/2+2/1	452	452	-	-	-	1.4	0.5	-	1.9	15.4	4.0	0.5	4.5
2/3	651	651	-	-	-	2.6	2.6	-	5.2	28.7	8.3	2.6	11.0
3/2+3/1	354	354	708	0	0	0.0	0.3	-	0.3	3.0	0.0	0.3	0.3
4/1	583	583	-	-	-	2.2	1.6	-	3.8	23.4	7.1	1.6	8.7
4/2+4/3	906	906	-	-	-	3.1	2.6	-	5.7	22.8	7.4	2.6	10.0
5/1	993	993	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	657	657	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	572	572	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	708	708	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	655	655	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	530	530	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	657	657	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	530	530	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1187	1187	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	21	21	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1166	1166	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	1489	1489	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 6.4 Total Delay for Signalled Lanes (pcuHr): 16.65 Cycle Time (s): 51
PRC Over All Lanes (%): 6.4 Total Delay Over All Lanes(pcuHr): 19.51

Full Input Data And Results

Scenario 4: 'Base 2023 PM' (FG4: 'Base 2023 PM', Plan 1: 'Network Control Plan 1')

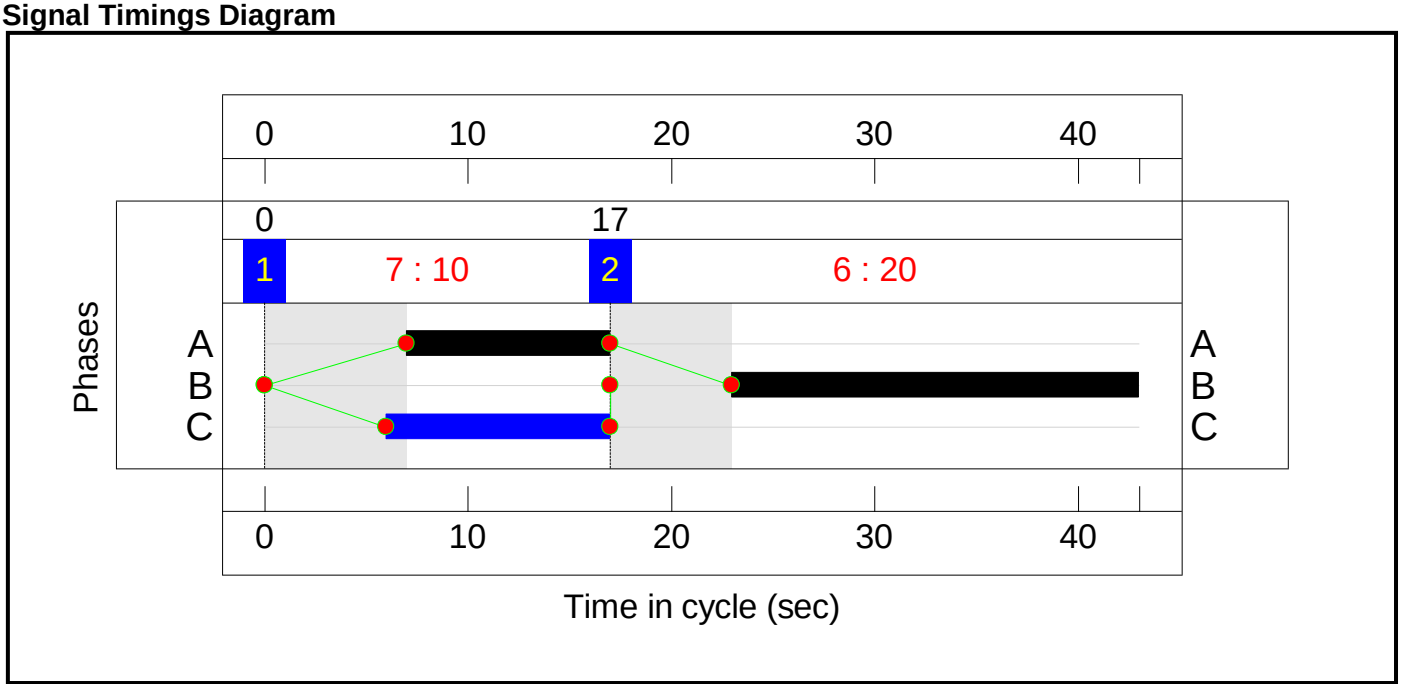
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	10	20
Change Point	0	17

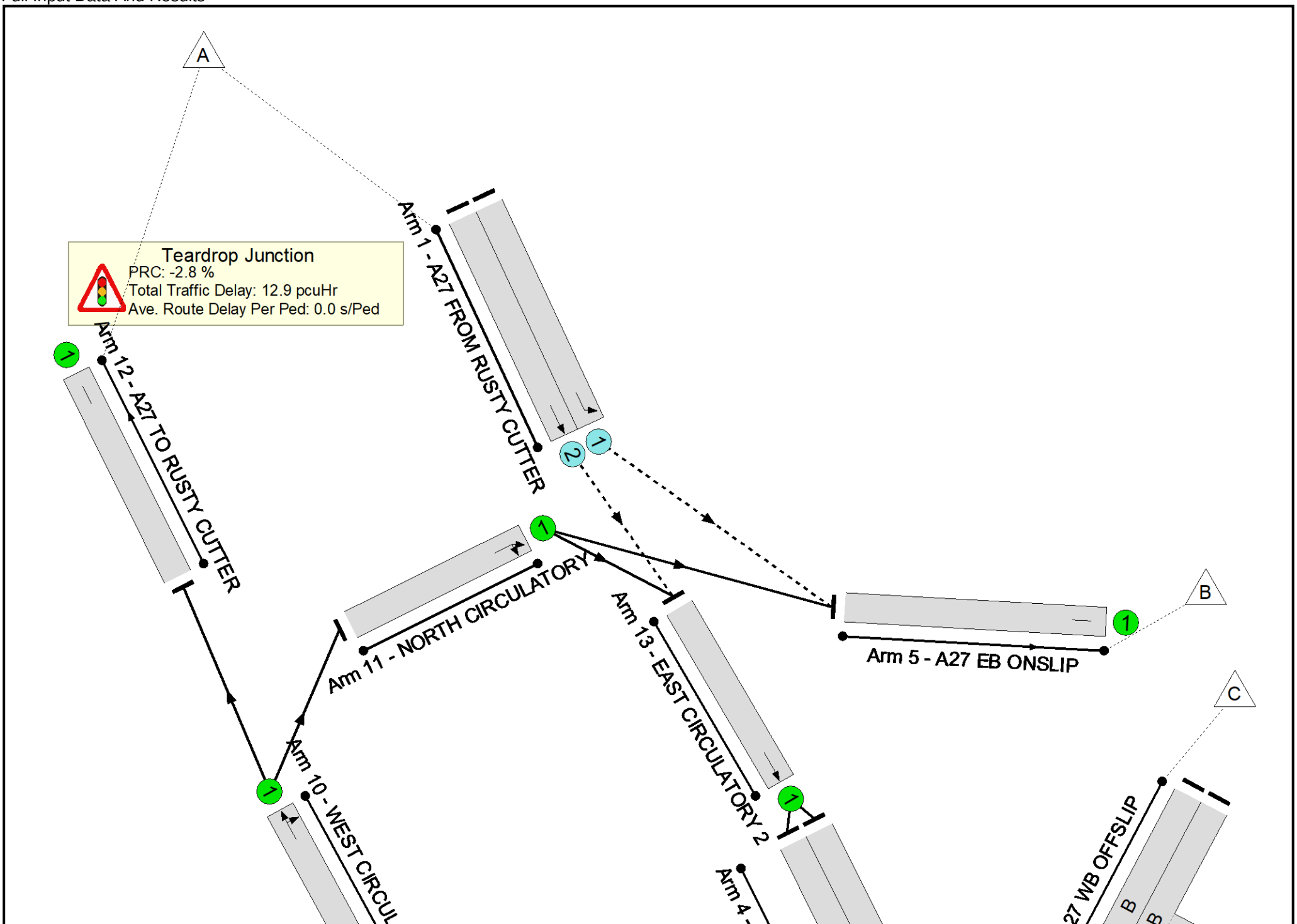
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**92.5%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**92.5%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1048	2043	2043	51.3%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	697	1839	1839	37.9%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	20	-	362	1962:1963	937+154	33.2 : 33.2%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	20	-	606	1962	958	63.2%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	1247	2005:1927	413+967	85.4 : 92.5%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	10	-	255	1940	496	51.4%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	10	-	442	2080:1911	162+489	67.9 : 67.9%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1073	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	306	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	110	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	642	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	607	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	542	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	960	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	994	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1502	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	25	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1477	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	697	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	11	-	0	-	0	0.0%

Full Input Data And Results

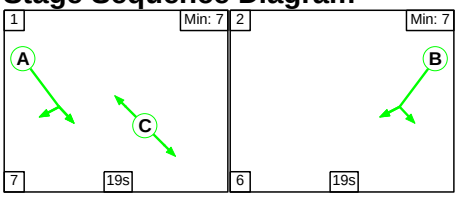
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**4239**	**0**	**0**	**5.0**	**7.9**	**0.0**	**12.9**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**4239**	**0**	**0**	**5.0**	**7.9**	**0.0**	**12.9**	**-**	**-**	**-**	**-**
1/1	1048	1048	1048	0	0	0.0	0.5	-	0.5	1.8	0.0	0.5	0.5
1/2	697	697	697	0	0	0.0	0.3	-	0.3	1.6	0.0	0.3	0.3
2/2+2/1	362	362	-	-	-	0.7	0.2	-	0.9	9.0	2.2	0.2	2.5
2/3	606	606	-	-	-	1.4	0.9	-	2.2	13.2	5.2	0.9	6.1
3/2+3/1	1247	1247	2494	0	0	0.3	4.4	-	4.7	13.5	4.2	4.4	8.6
4/1	255	255	-	-	-	1.0	0.5	-	1.5	21.1	2.6	0.5	3.1
4/2+4/3	442	442	-	-	-	1.7	1.0	-	2.8	22.5	3.5	1.0	4.6
5/1	1073	1073	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	306	306	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	110	110	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	642	642	-	-	-	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	542	542	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	960	960	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	994	994	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1502	1502	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	25	25	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1477	1477	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	697	697	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 32.5 Total Delay for Signalled Lanes (pcuHr): 7.40 Cycle Time (s): 43
PRC Over All Lanes (%): -2.8 Total Delay Over All Lanes(pcuHr): 12.92

Full Input Data And Results

Scenario 5: 'Base 2023 Plus Com Dev AM' (FG5: 'Base 2023 Plus Com Dev AM', Plan 1: 'Network Control Plan 1')

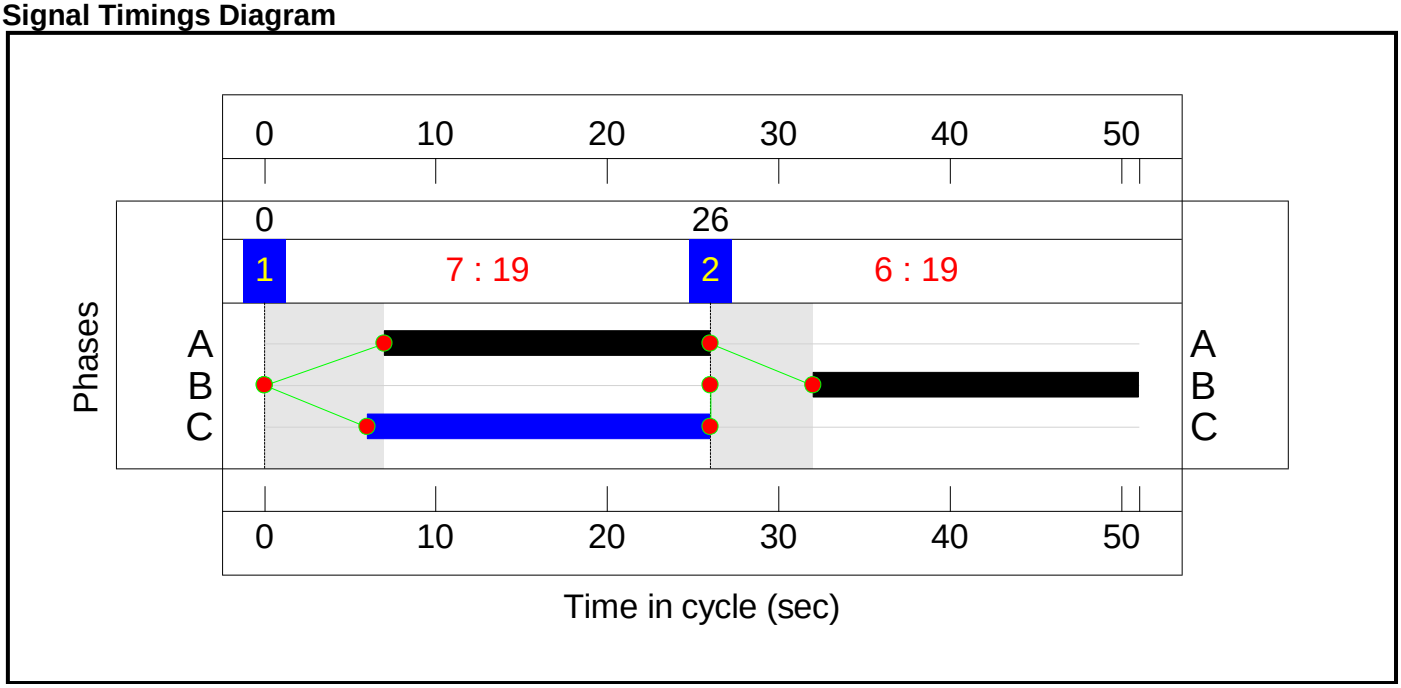
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	19	19
Change Point	0	26

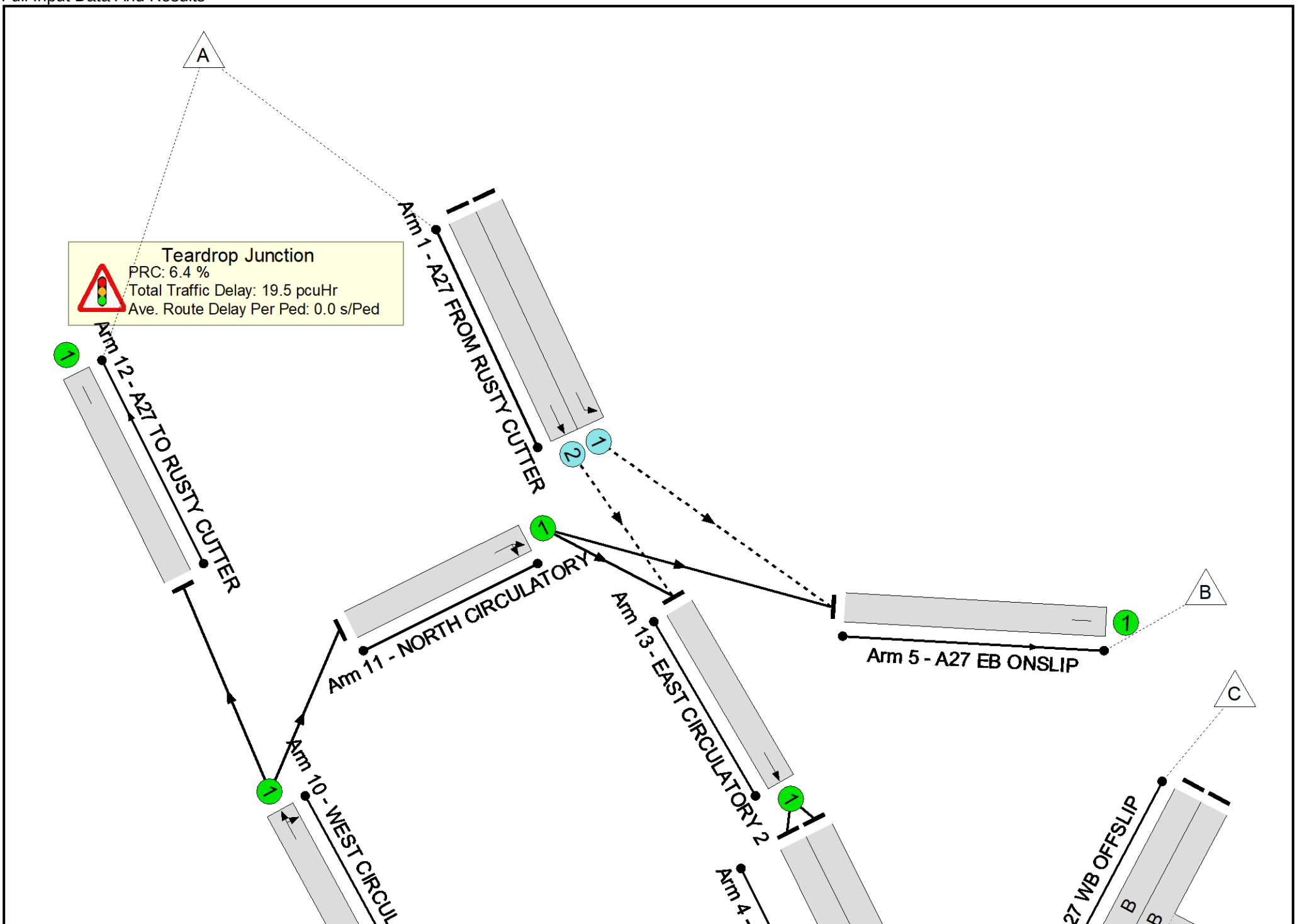
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**84.6%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**84.6%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	974	2043	2043	47.7%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	1489	1839	1839	81.0%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	452	1962:1963	754+148	50.2 : 50.2%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	651	1962	769	84.6%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	354	2005:1958	5+942	37.4 : 37.4%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	19	-	583	1940	761	76.6%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	19	-	906	2080:1911	678+396	84.3 : 84.3%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	995	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	657	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	572	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	708	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	655	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	530	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	657	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	530	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1187	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	21	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1166	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1489	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	20	-	0	-	0	0.0%

Full Input Data And Results

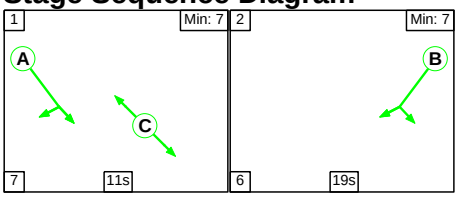
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**3171**	**0**	**0**	**9.3**	**10.2**	**0.0**	**19.5**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**3171**	**0**	**0**	**9.3**	**10.2**	**0.0**	**19.5**	**-**	**-**	**-**	**-**
1/1	974	974	974	0	0	0.0	0.5	-	0.5	1.7	0.0	0.5	0.5
1/2	1489	1489	1489	0	0	0.0	2.1	-	2.1	5.1	0.0	2.1	2.1
2/2+2/1	452	452	-	-	-	1.4	0.5	-	1.9	15.4	4.0	0.5	4.5
2/3	651	651	-	-	-	2.6	2.6	-	5.2	28.7	8.3	2.6	11.0
3/2+3/1	354	354	708	0	0	0.0	0.3	-	0.3	3.0	0.0	0.3	0.3
4/1	583	583	-	-	-	2.2	1.6	-	3.8	23.4	7.1	1.6	8.7
4/2+4/3	906	906	-	-	-	3.1	2.6	-	5.7	22.8	7.4	2.6	10.0
5/1	995	995	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	657	657	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	572	572	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	708	708	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	655	655	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	530	530	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	657	657	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	530	530	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1187	1187	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	21	21	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1166	1166	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	1489	1489	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 6.4 Total Delay for Signalled Lanes (pcuHr): 16.65 Cycle Time (s): 51
PRC Over All Lanes (%): 6.4 Total Delay Over All Lanes(pcuHr): 19.51

Full Input Data And Results

Scenario 6: 'Base 2023 Plus Com Dev PM' (FG6: 'Base 2023 Plus Com Dev PM', Plan 1: 'Network Control Plan 1')

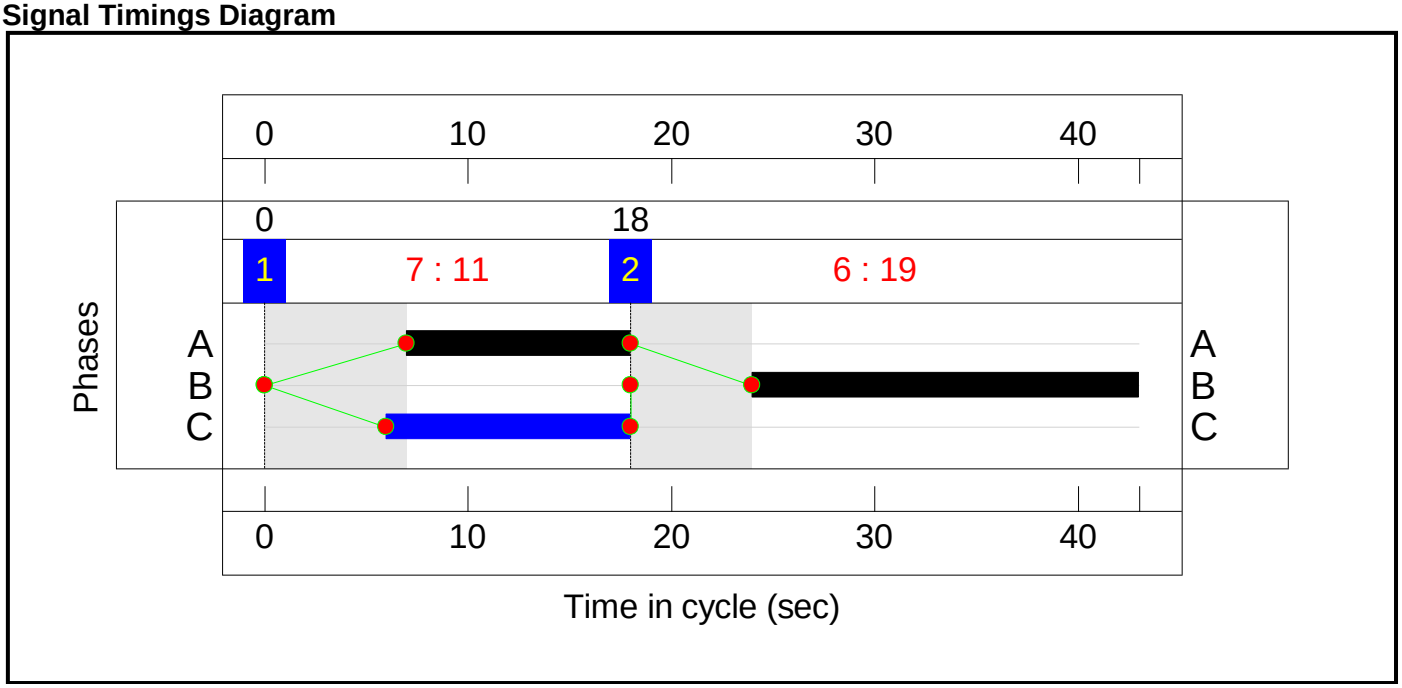
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	11	19
Change Point	0	18

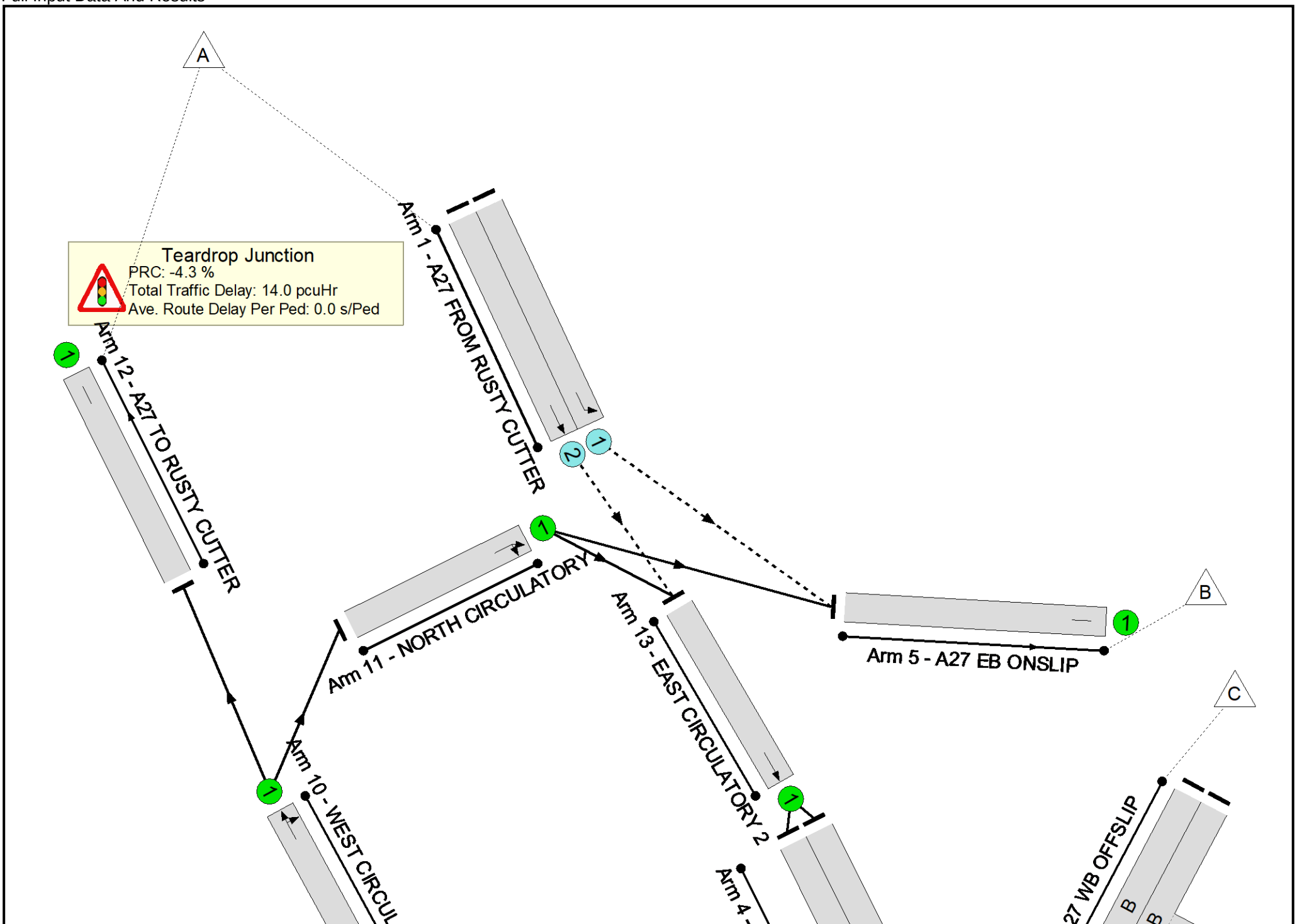
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**93.9%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**93.9%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1053	2043	2043	51.5%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	697	1839	1839	37.9%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	363	1962:1963	898+147	34.7 : 34.7%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	610	1962	913	66.8%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	1247	2005:1928	379+966	89.8 : 93.9%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	11	-	222	1940	541	41.0%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	11	-	475	2080:1911	230+533	62.3 : 62.3%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1078	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	273	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	143	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	643	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	611	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	556	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	951	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	994	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1507	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	25	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1482	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	697	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	12	-	0	-	0	0.0%

Full Input Data And Results

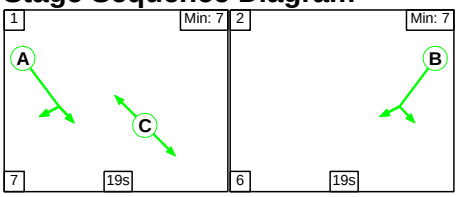
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**4244**	**0**	**0**	**5.1**	**9.0**	**0.0**	**14.0**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**4244**	**0**	**0**	**5.1**	**9.0**	**0.0**	**14.0**	**-**	**-**	**-**	**-**
1/1	1053	1053	1053	0	0	0.0	0.5	-	0.5	1.8	0.0	0.5	0.5
1/2	697	697	697	0	0	0.0	0.3	-	0.3	1.6	0.0	0.3	0.3
2/2+2/1	363	363	-	-	-	0.7	0.3	-	1.0	9.8	2.3	0.3	2.6
2/3	610	610	-	-	-	1.5	1.0	-	2.5	14.8	5.6	1.0	6.6
3/2+3/1	1247	1247	2494	0	0	0.3	5.7	-	6.0	17.3	4.3	5.7	10.0
4/1	222	222	-	-	-	0.8	0.3	-	1.1	18.2	2.2	0.3	2.5
4/2+4/3	475	475	-	-	-	1.7	0.8	-	2.5	19.3	3.4	0.8	4.2
5/1	1078	1078	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	273	273	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	143	143	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	643	643	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	611	611	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	556	556	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	951	951	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	994	994	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1507	1507	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	25	25	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1482	1482	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	697	697	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 34.6 Total Delay for Signalled Lanes (pcuHr): 7.18 Cycle Time (s): 43
PRC Over All Lanes (%): -4.3 Total Delay Over All Lanes(pcuHr): 14.02

Full Input Data And Results

Scenario 7: 'Base 2023 Plus Com Dev Plus 50% Prop Dev AM' (FG7: 'Base 2023 Plus Com Dev Plus 50% Prop Dev AM', Plan 1: 'Network Control Plan 1')

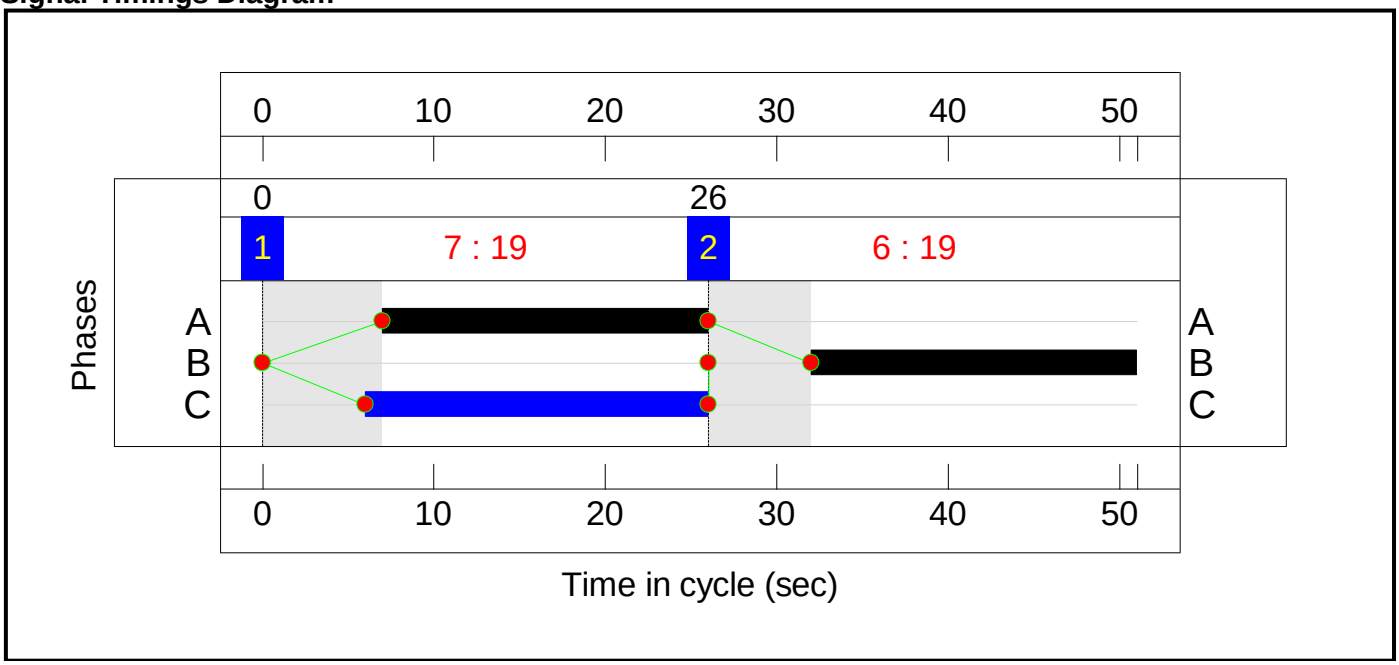
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	19	19
Change Point	0	26

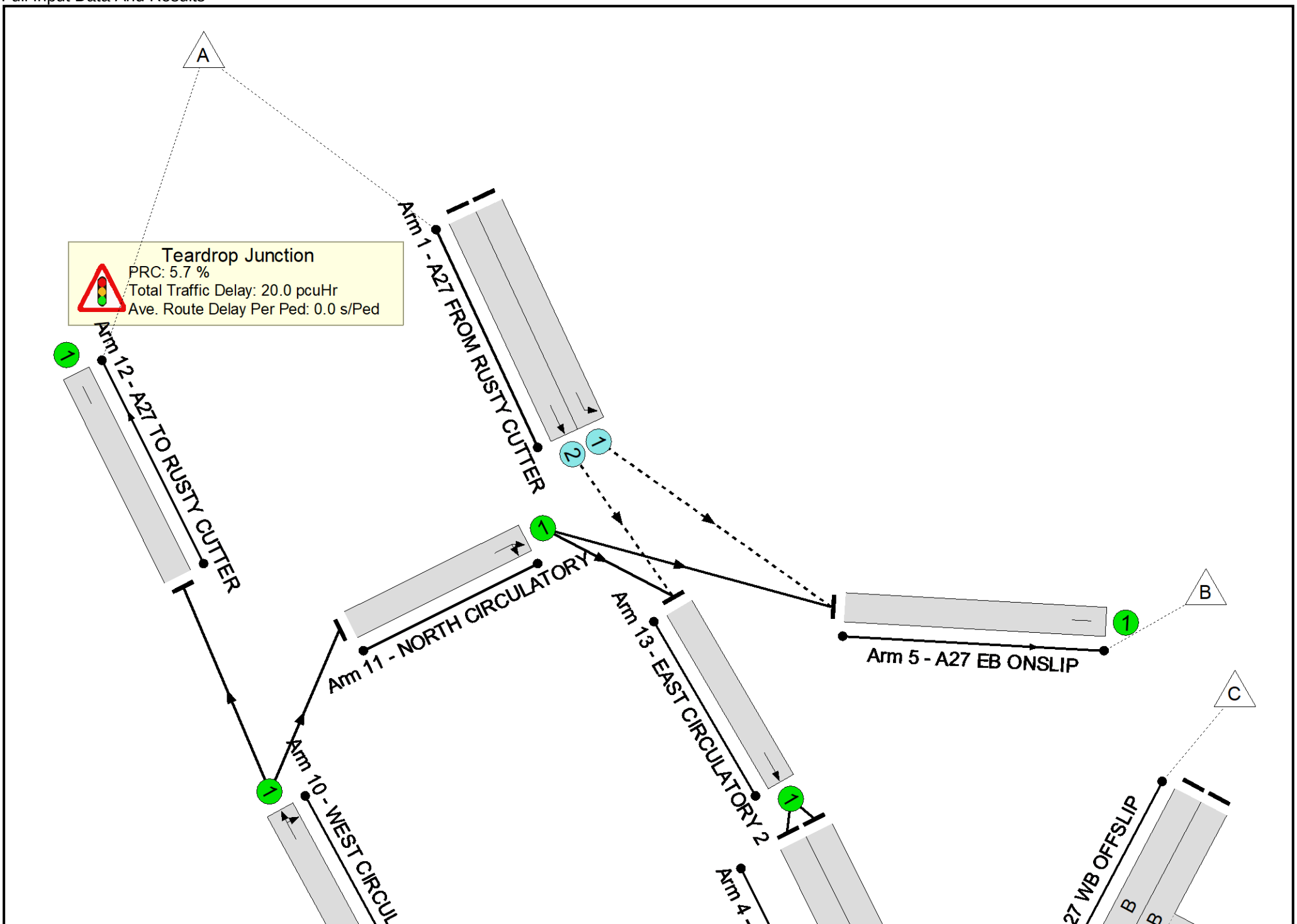
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**85.1%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**85.1%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	986	2043	2043	48.3%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	1511	1839	1839	82.2%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	453	1962:1963	754+147	50.3 : 50.3%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	655	1962	769	85.1%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	354	2005:1958	5+933	37.7 : 37.7%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	19	-	585	1940	761	76.9%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	19	-	926	2080:1911	672+420	84.8 : 84.8%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1007	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	659	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	570	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	731	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	659	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	531	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	661	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	552	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1192	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	21	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1171	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1511	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	20	-	0	-	0	0.0%

Full Input Data And Results

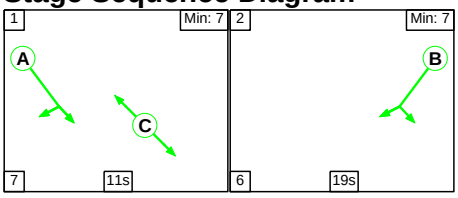
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**3205**	**0**	**0**	**9.4**	**10.6**	**0.0**	**20.0**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**3205**	**0**	**0**	**9.4**	**10.6**	**0.0**	**20.0**	**-**	**-**	**-**	**-**
1/1	986	986	986	0	0	0.0	0.5	-	0.5	1.7	0.0	0.5	0.5
1/2	1511	1511	1511	0	0	0.0	2.3	-	2.3	5.4	0.0	2.3	2.3
2/2+2/1	453	453	-	-	-	1.4	0.5	-	1.9	15.4	4.0	0.5	4.5
2/3	655	655	-	-	-	2.6	2.7	-	5.3	29.2	8.4	2.7	11.1
3/2+3/1	354	354	708	0	0	0.0	0.3	-	0.3	3.1	0.0	0.3	0.3
4/1	585	585	-	-	-	2.2	1.6	-	3.8	23.5	7.2	1.6	8.8
4/2+4/3	926	926	-	-	-	3.2	2.7	-	5.9	23.0	7.4	2.7	10.1
5/1	1007	1007	-	-	-	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
6/2	570	570	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	731	731	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	659	659	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	531	531	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	661	661	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	552	552	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1192	1192	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	21	21	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1171	1171	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	1511	1511	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 5.7 Total Delay for Signalled Lanes (pcuHr): 16.99 Cycle Time (s): 51
PRC Over All Lanes (%): 5.7 Total Delay Over All Lanes(pcuHr): 20.03

Full Input Data And Results

Scenario 8: 'Base 2023 Plus Com Dev Plus 50% Prop Dev PM' (FG8: 'Base 2023 Plus Com Dev Plus 50% Prop Dev PM', Plan 1: 'Network Control Plan 1')

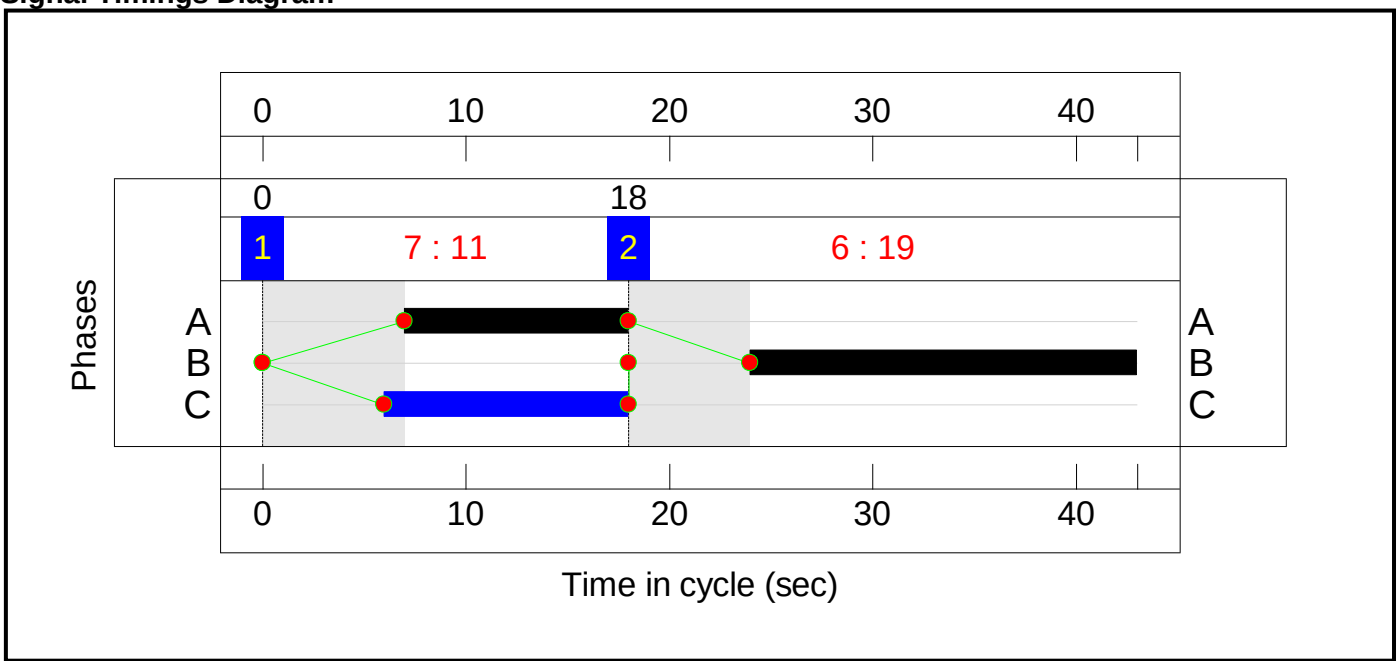
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	11	19
Change Point	0	18

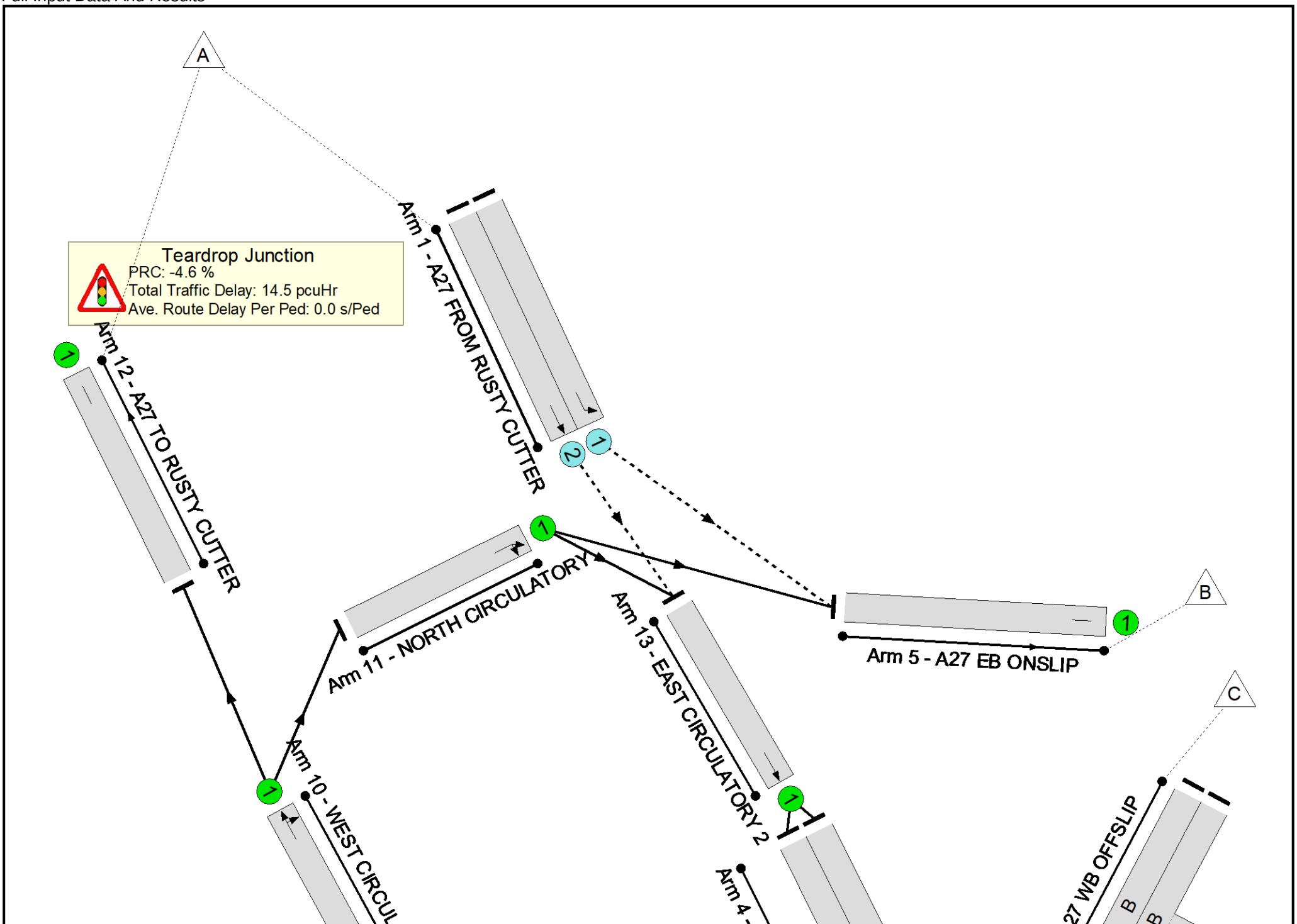
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**94.1%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**94.1%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1059	2043	2043	51.8%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	708	1839	1839	38.5%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	367	1962:1963	899+145	35.2 : 35.2%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	617	1962	913	67.6%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	1247	2005:1928	380+961	90.2 : 94.1%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	11	-	243	1940	541	44.9%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	11	-	465	2080:1911	190+533	64.3 : 64.3%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1084	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	294	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	122	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	658	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	618	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	557	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	961	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	1005	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1518	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	25	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1493	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	708	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	12	-	0	-	0	0.0%

Full Input Data And Results

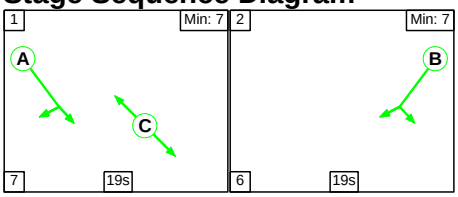
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**4261**	**0**	**0**	**5.2**	**9.4**	**0.0**	**14.5**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**4261**	**0**	**0**	**5.2**	**9.4**	**0.0**	**14.5**	**-**	**-**	**-**	**-**
1/1	1059	1059	1059	0	0	0.0	0.5	-	0.5	1.8	0.0	0.5	0.5
1/2	708	708	708	0	0	0.0	0.3	-	0.3	1.6	0.0	0.3	0.3
2/2+2/1	367	367	-	-	-	0.7	0.3	-	1.0	9.9	2.4	0.3	2.6
2/3	617	617	-	-	-	1.5	1.0	-	2.6	15.0	5.7	1.0	6.7
3/2+3/1	1247	1247	2494	0	0	0.3	5.9	-	6.2	18.0	4.5	5.9	10.4
4/1	243	243	-	-	-	0.9	0.4	-	1.3	18.8	2.4	0.4	2.8
4/2+4/3	465	465	-	-	-	1.7	0.9	-	2.6	20.1	3.5	0.9	4.4
5/1	1084	1084	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	294	294	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	122	122	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	658	658	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	618	618	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	557	557	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	961	961	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	1005	1005	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1518	1518	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	25	25	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1493	1493	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	708	708	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 33.1 Total Delay for Signalled Lanes (pcuHr): 7.45 Cycle Time (s): 43
PRC Over All Lanes (%): -4.6 Total Delay Over All Lanes(pcuHr): 14.54

Full Input Data And Results

Scenario 9: 'Base 2028 AM' (FG9: 'Base 2028 AM', Plan 1: 'Network Control Plan 1')

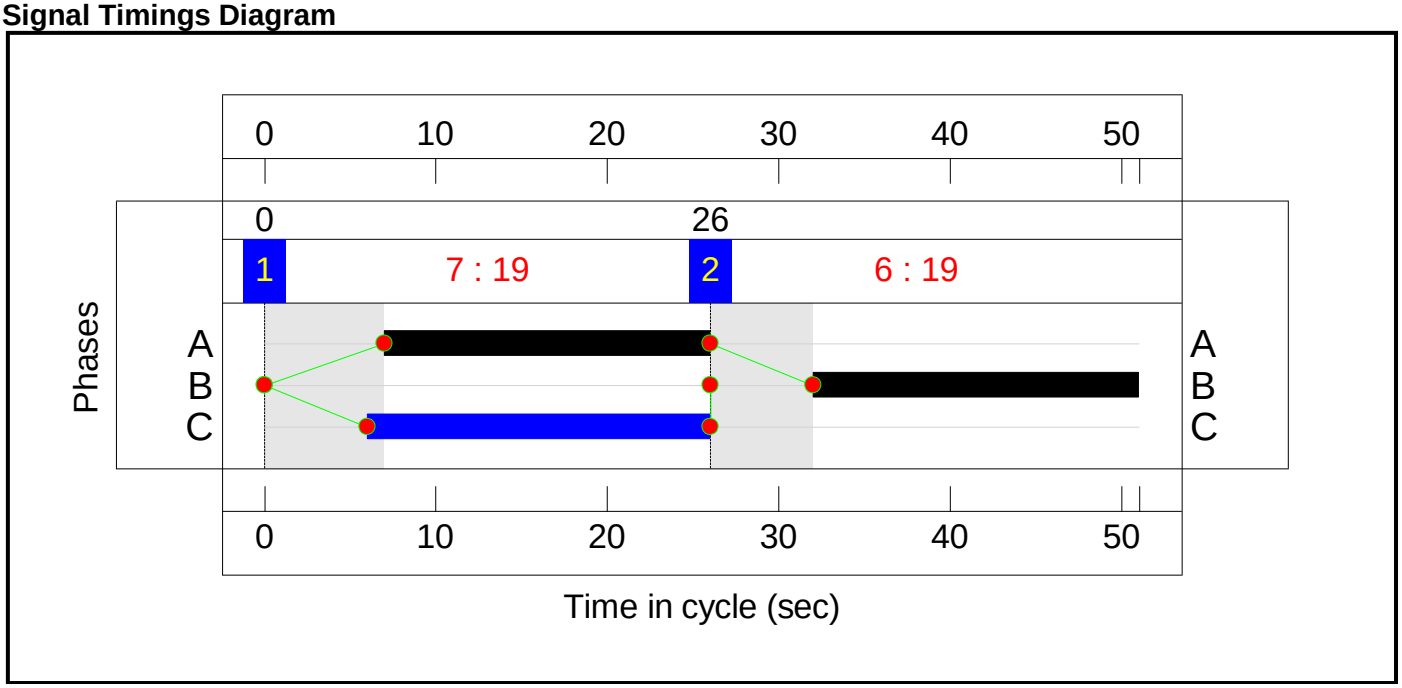
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	19	19
Change Point	0	26

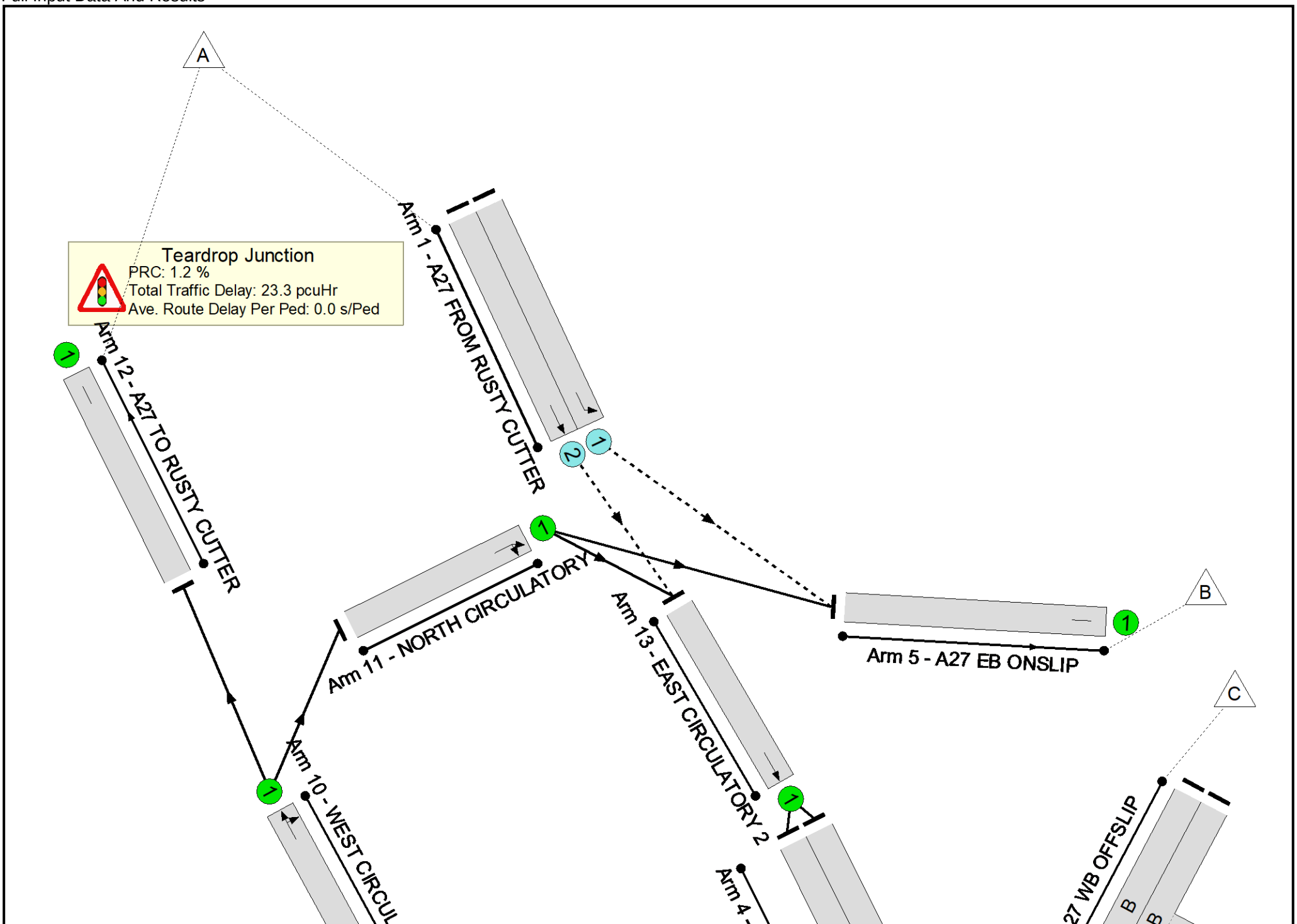
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**88.9%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**88.9%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1021	2043	2043	50.0%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	1563	1839	1839	85.0%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	475	1962:1963	754+148	52.7 : 52.7%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	684	1962	769	88.9%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	373	2005:1958	2+928	40.1 : 40.1%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	19	-	619	1940	761	81.4%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	19	-	944	2080:1911	677+399	87.7 : 87.7%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1042	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	697	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	594	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	743	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	688	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	558	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	689	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	557	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1247	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	21	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1226	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1563	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	20	-	0	-	0	0.0%

Full Input Data And Results

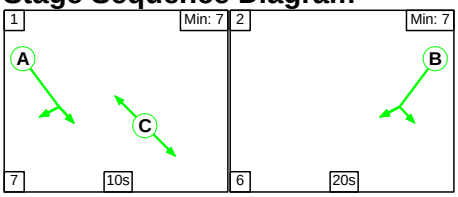
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**3330**	**0**	**0**	**10.0**	**13.4**	**0.0**	**23.3**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**3330**	**0**	**0**	**10.0**	**13.4**	**0.0**	**23.3**	**-**	**-**	**-**	**-**
1/1	1021	1021	1021	0	0	0.0	0.5	-	0.5	1.8	0.0	0.5	0.5
1/2	1563	1563	1563	0	0	0.0	2.8	-	2.8	6.4	0.0	2.8	2.8
2/2+2/1	475	475	-	-	-	1.5	0.6	-	2.1	15.7	4.2	0.6	4.7
2/3	684	684	-	-	-	2.7	3.7	-	6.4	33.9	8.9	3.7	12.6
3/2+3/1	373	373	746	0	0	0.0	0.3	-	0.3	3.2	0.0	0.3	0.3
4/1	619	619	-	-	-	2.4	2.1	-	4.5	26.2	7.7	2.1	9.9
4/2+4/3	944	944	-	-	-	3.3	3.4	-	6.7	25.6	8.2	3.4	11.6
5/1	1042	1042	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	697	697	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	594	594	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	743	743	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	688	688	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	558	558	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	689	689	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	557	557	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1247	1247	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	21	21	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1226	1226	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	1563	1563	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 1.2 Total Delay for Signalled Lanes (pcuHr): 19.73 Cycle Time (s): 51
PRC Over All Lanes (%): 1.2 Total Delay Over All Lanes(pcuHr): 23.33

Full Input Data And Results

Scenario 10: 'Base 2028 PM' (FG10: 'Base 2028 PM', Plan 1: 'Network Control Plan 1')

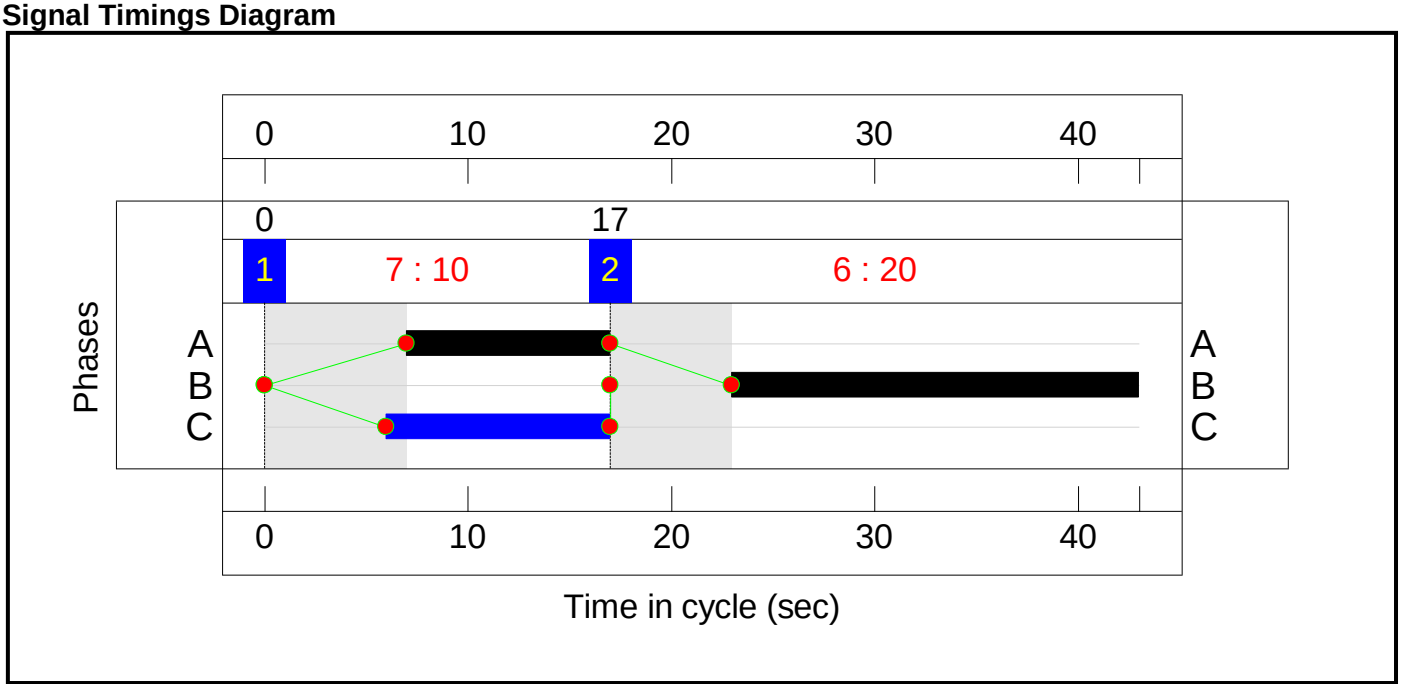
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	10	20
Change Point	0	17

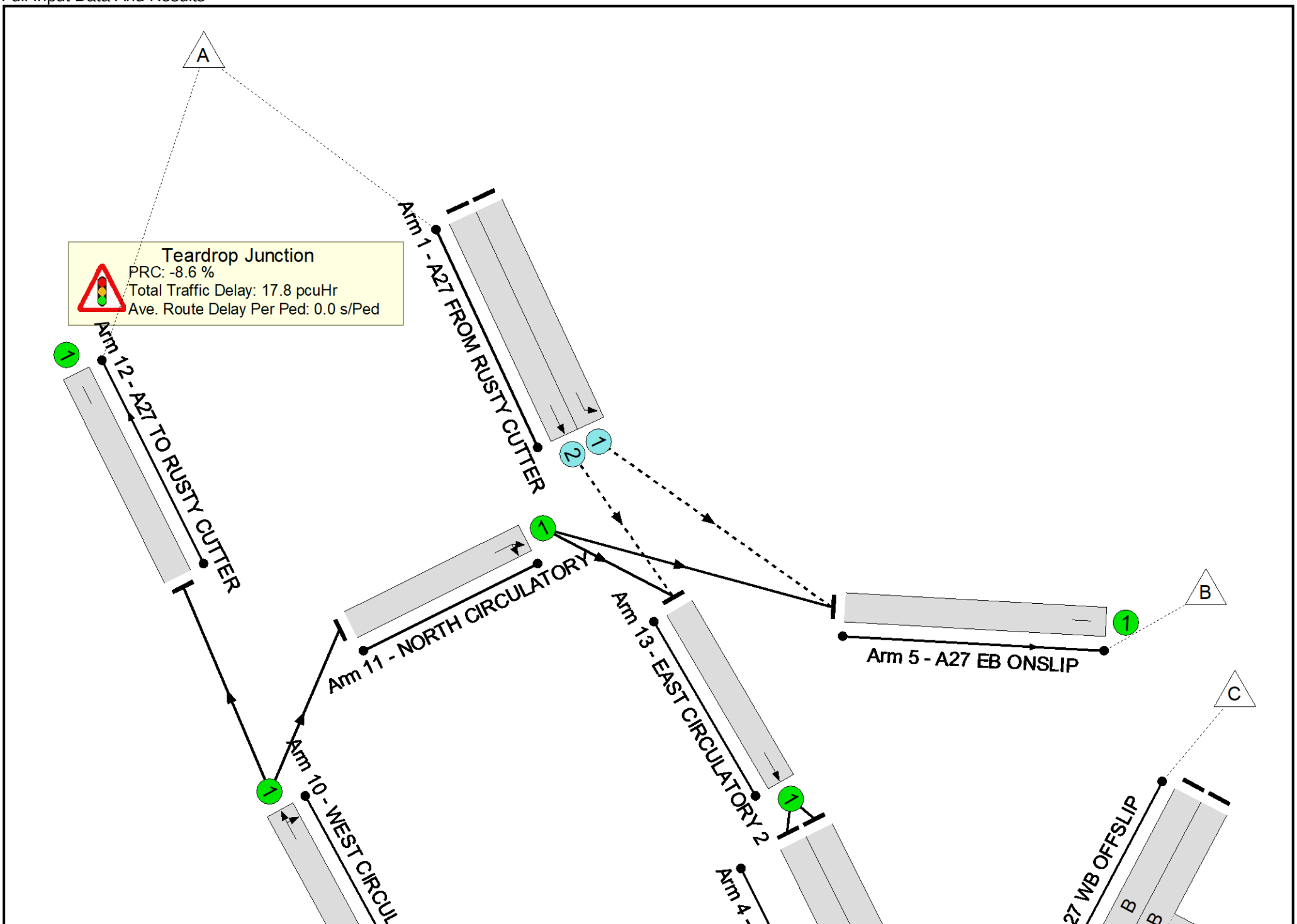
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**97.7%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**97.7%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1100	2043	2043	53.8%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	732	1839	1839	39.8%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	20	-	381	1962:1963	937+155	34.9 : 34.9%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	20	-	637	1962	958	66.5%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	1310	2005:1926	416+955	90.6 : 97.7%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	10	-	246	1940	496	49.6%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	10	-	486	2080:1911	194+489	71.2 : 71.2%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1126	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	300	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	138	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	674	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	638	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	554	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1015	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	1053	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1569	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	26	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1543	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	732	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	11	-	0	-	0	0.0%

Full Input Data And Results

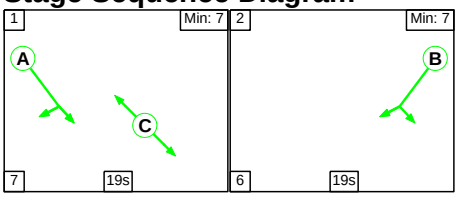
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**4452**	**0**	**0**	**5.5**	**12.3**	**0.0**	**17.8**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**4452**	**0**	**0**	**5.5**	**12.3**	**0.0**	**17.8**	**-**	**-**	**-**	**-**
1/1	1100	1100	1100	0	0	0.0	0.6	-	0.6	1.9	0.0	0.6	0.6
1/2	732	732	732	0	0	0.0	0.3	-	0.3	1.6	0.0	0.3	0.3
2/2+2/1	381	381	-	-	-	0.7	0.3	-	1.0	9.2	2.4	0.3	2.6
2/3	637	637	-	-	-	1.5	1.0	-	2.5	13.9	5.7	1.0	6.6
3/2+3/1	1310	1310	2620	0	0	0.4	8.4	-	8.9	24.4	9.6	8.4	18.0
4/1	246	246	-	-	-	0.9	0.5	-	1.4	20.8	2.5	0.5	2.9
4/2+4/3	486	486	-	-	-	1.9	1.2	-	3.1	23.1	3.8	1.2	5.0
5/1	1126	1126	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	300	300	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	138	138	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	674	674	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	638	638	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	554	554	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	1015	1015	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	1053	1053	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1569	1569	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	26	26	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1543	1543	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	732	732	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 26.4 Total Delay for Signalled Lanes (pcuHr): 7.97 Cycle Time (s): 43
PRC Over All Lanes (%): -8.6 Total Delay Over All Lanes(pcuHr): 17.77

Full Input Data And Results

Scenario 11: 'Base 2028 Plus Com Dev AM' (FG11: 'Base 2028 Plus Com Dev AM', Plan 1: 'Network Control Plan 1')

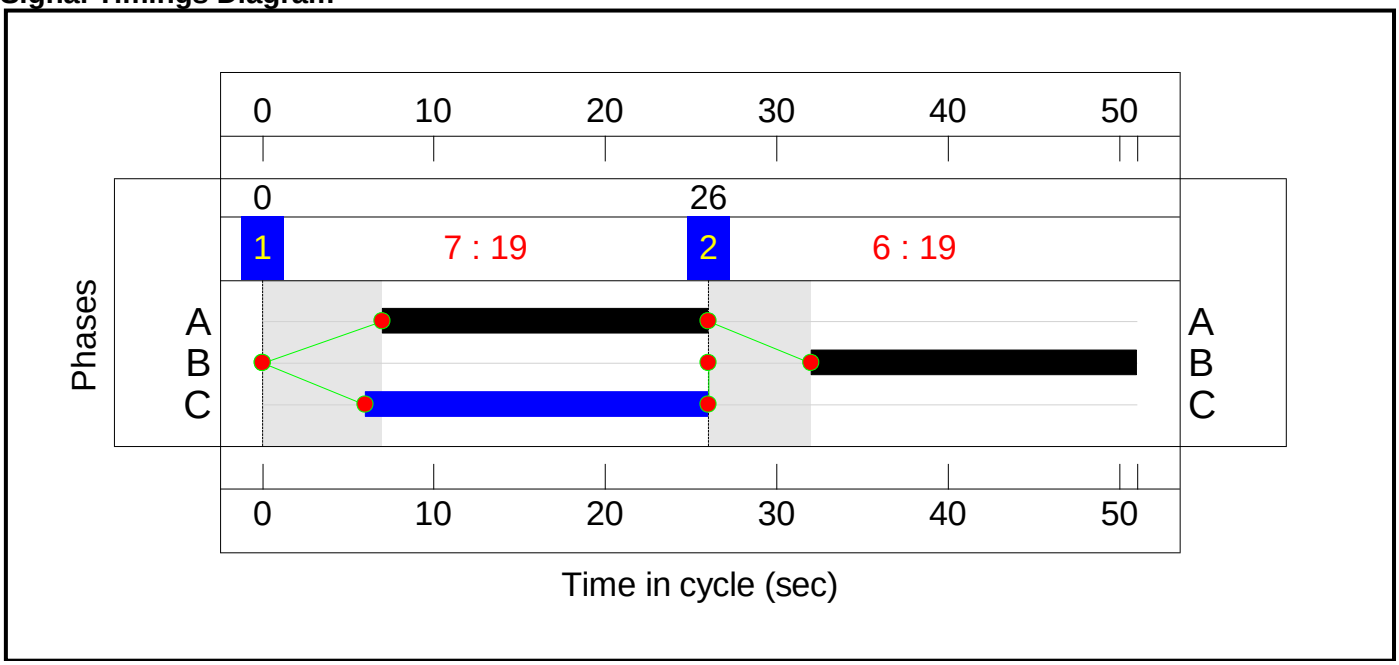
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	19	19
Change Point	0	26

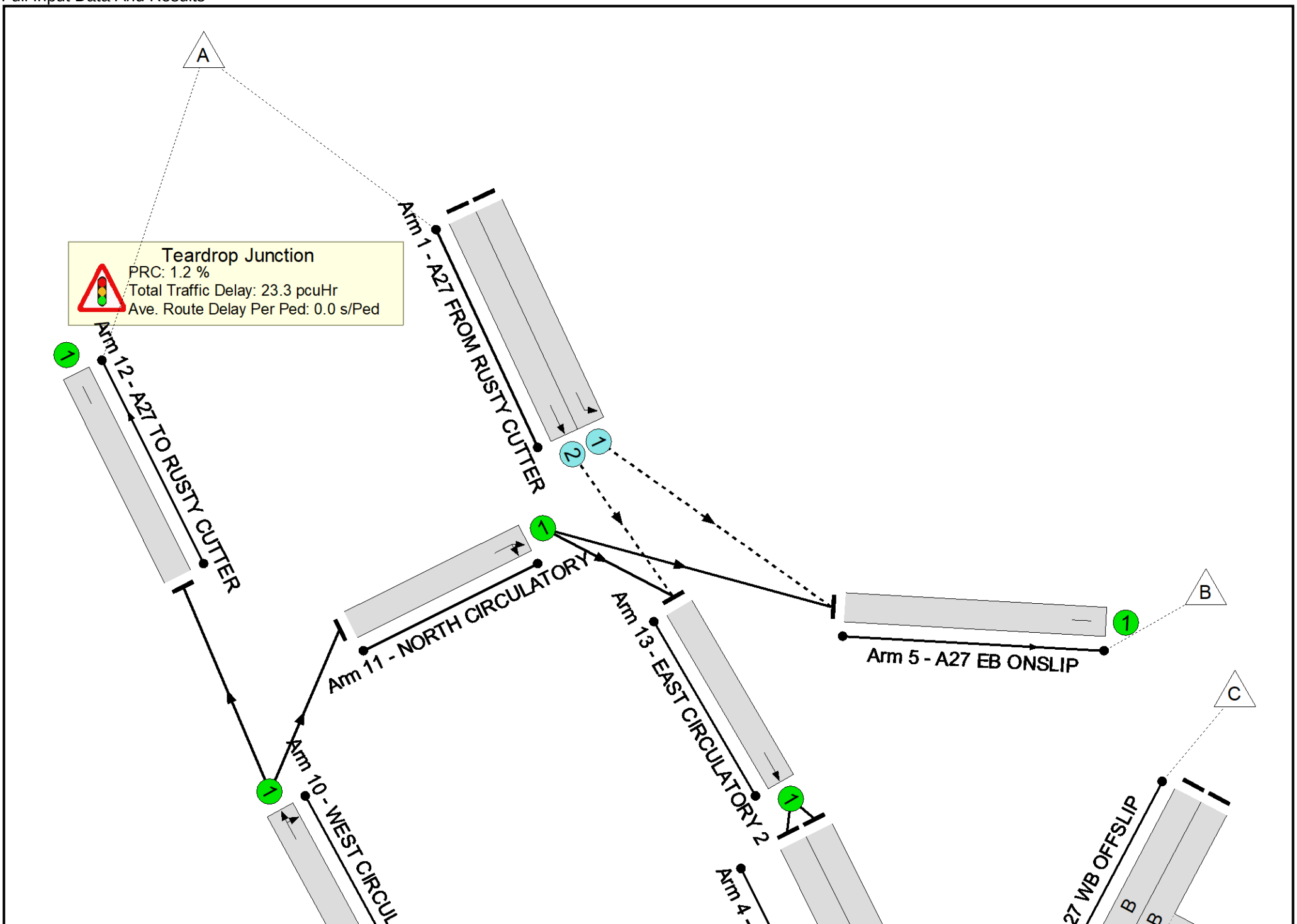
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**88.9%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**88.9%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1023	2043	2043	50.1%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	1563	1839	1839	85.0%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	475	1962:1963	754+148	52.7 : 52.7%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	684	1962	769	88.9%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	373	2005:1958	5+928	40.0 : 40.0%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	19	-	619	1940	761	81.4%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	19	-	944	2080:1911	677+399	87.7 : 87.7%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1044	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	697	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	594	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	743	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	688	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	557	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	690	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	557	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1247	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	21	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1226	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1563	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	20	-	0	-	0	0.0%

Full Input Data And Results

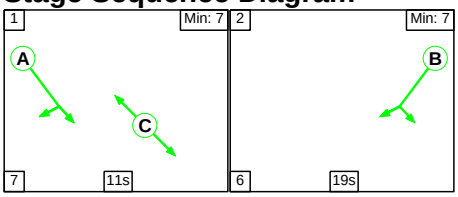
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**3332**	**0**	**0**	**10.0**	**13.4**	**0.0**	**23.3**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**3332**	**0**	**0**	**10.0**	**13.4**	**0.0**	**23.3**	**-**	**-**	**-**	**-**
1/1	1023	1023	1023	0	0	0.0	0.5	-	0.5	1.8	0.0	0.5	0.5
1/2	1563	1563	1563	0	0	0.0	2.8	-	2.8	6.4	0.0	2.8	2.8
2/2+2/1	475	475	-	-	-	1.5	0.6	-	2.1	15.7	4.2	0.6	4.7
2/3	684	684	-	-	-	2.7	3.7	-	6.4	33.9	8.9	3.7	12.6
3/2+3/1	373	373	746	0	0	0.0	0.3	-	0.3	3.2	0.0	0.3	0.3
4/1	619	619	-	-	-	2.4	2.1	-	4.5	26.2	7.7	2.1	9.9
4/2+4/3	944	944	-	-	-	3.3	3.4	-	6.7	25.6	8.2	3.4	11.6
5/1	1044	1044	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	697	697	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	594	594	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	743	743	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	688	688	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	557	557	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	690	690	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	557	557	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1247	1247	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	21	21	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1226	1226	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	1563	1563	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 1.2 Total Delay for Signalled Lanes (pcuHr): 19.73 Cycle Time (s): 51
PRC Over All Lanes (%): 1.2 Total Delay Over All Lanes(pcuHr): 23.33

Full Input Data And Results

Scenario 12: 'Base 2028 Plus Com Dev PM' (FG12: 'Base 2028 Plus Com Dev PM', Plan 1: 'Network Control Plan 1')

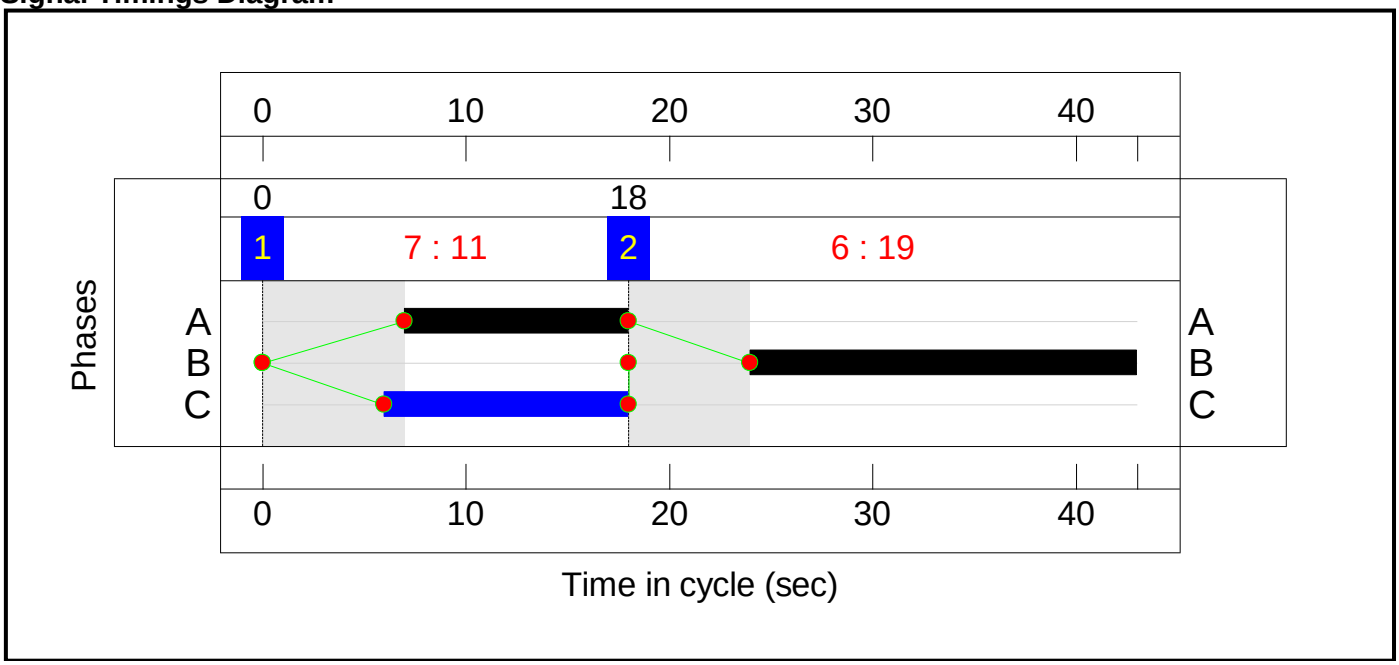
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	11	19
Change Point	0	18

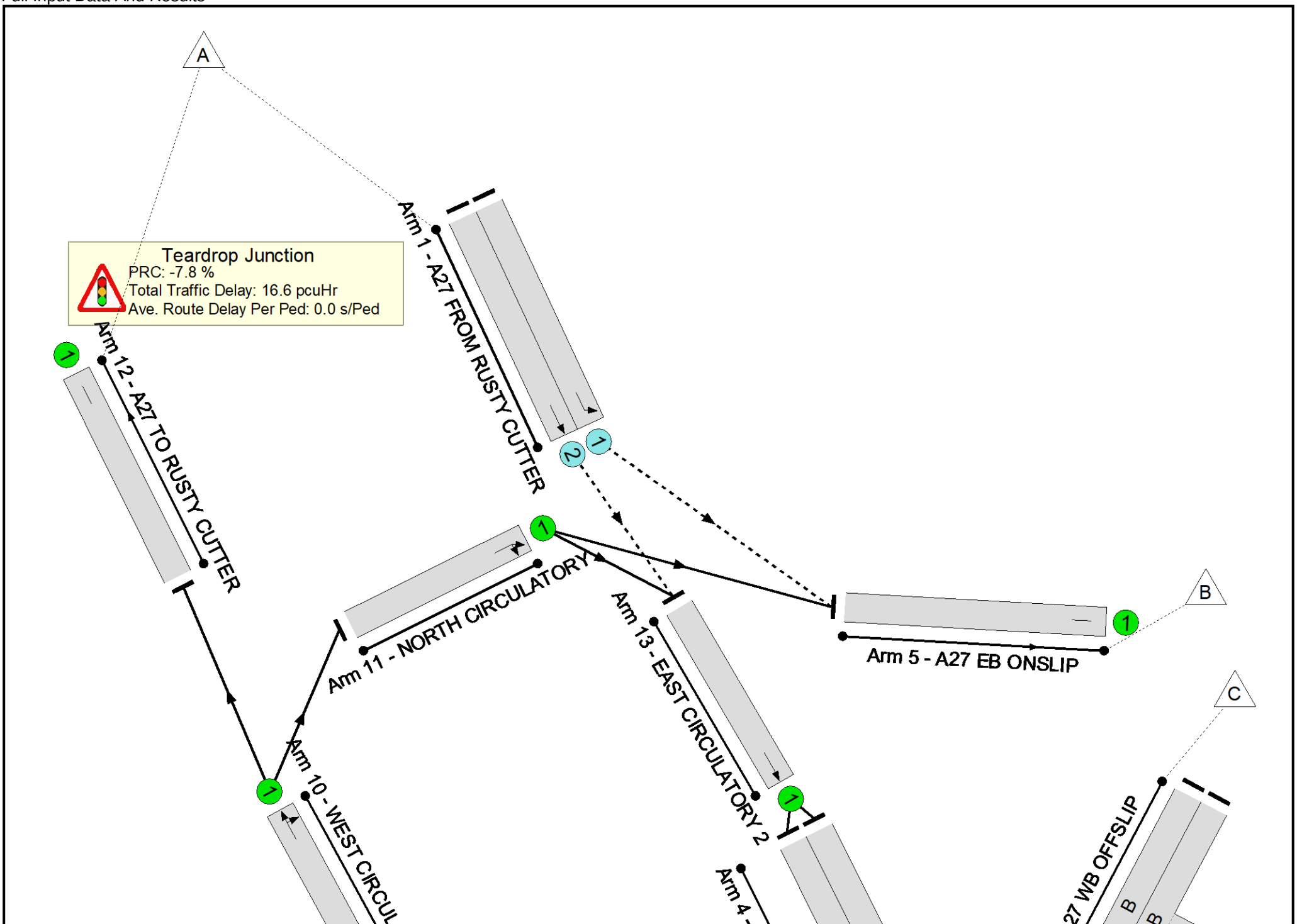
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**97.0%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**97.0%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1105	2043	2043	54.1%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	732	1839	1839	39.8%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	382	1962:1963	898+148	36.5 : 36.5%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	640	1962	913	70.1%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	1310	2005:1925	432+954	88.9 : 97.0%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	11	-	283	1940	541	52.3%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	11	-	449	2080:1911	155+533	65.3 : 65.3%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1131	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	337	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	101	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	675	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	641	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	548	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1025	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	1053	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1573	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	26	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1547	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	732	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	12	-	0	-	0	0.0%

Full Input Data And Results

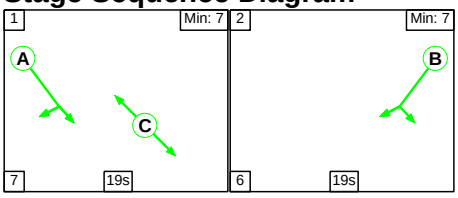
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**4457**	**0**	**0**	**5.5**	**11.1**	**0.0**	**16.6**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**4457**	**0**	**0**	**5.5**	**11.1**	**0.0**	**16.6**	**-**	**-**	**-**	**-**
1/1	1105	1105	1105	0	0	0.0	0.6	-	0.6	1.9	0.0	0.6	0.6
1/2	732	732	732	0	0	0.0	0.3	-	0.3	1.6	0.0	0.3	0.3
2/2+2/1	382	382	-	-	-	0.8	0.3	-	1.1	10.0	2.5	0.3	2.7
2/3	640	640	-	-	-	1.6	1.2	-	2.8	15.7	6.0	1.2	7.2
3/2+3/1	1310	1310	2620	0	0	0.4	7.2	-	7.7	21.1	5.1	7.2	12.4
4/1	283	283	-	-	-	1.0	0.5	-	1.6	20.0	2.8	0.5	3.4
4/2+4/3	449	449	-	-	-	1.7	0.9	-	2.6	20.7	3.6	0.9	4.5
5/1	1131	1131	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	337	337	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	101	101	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	675	675	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	641	641	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	548	548	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	1025	1025	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	1053	1053	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1573	1573	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	26	26	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1547	1547	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	732	732	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 28.3 Total Delay for Signalled Lanes (pcuHr): 8.00 Cycle Time (s): 43
PRC Over All Lanes (%): -7.8 Total Delay Over All Lanes(pcuHr): 16.60

Full Input Data And Results

Scenario 13: 'Base 2028 Plus Com Dev Plus Prop Dev AM' (FG13: 'Base 2028 Plus Com Dev Plus Prop Dev AM', Plan 1: 'Network Control Plan 1')

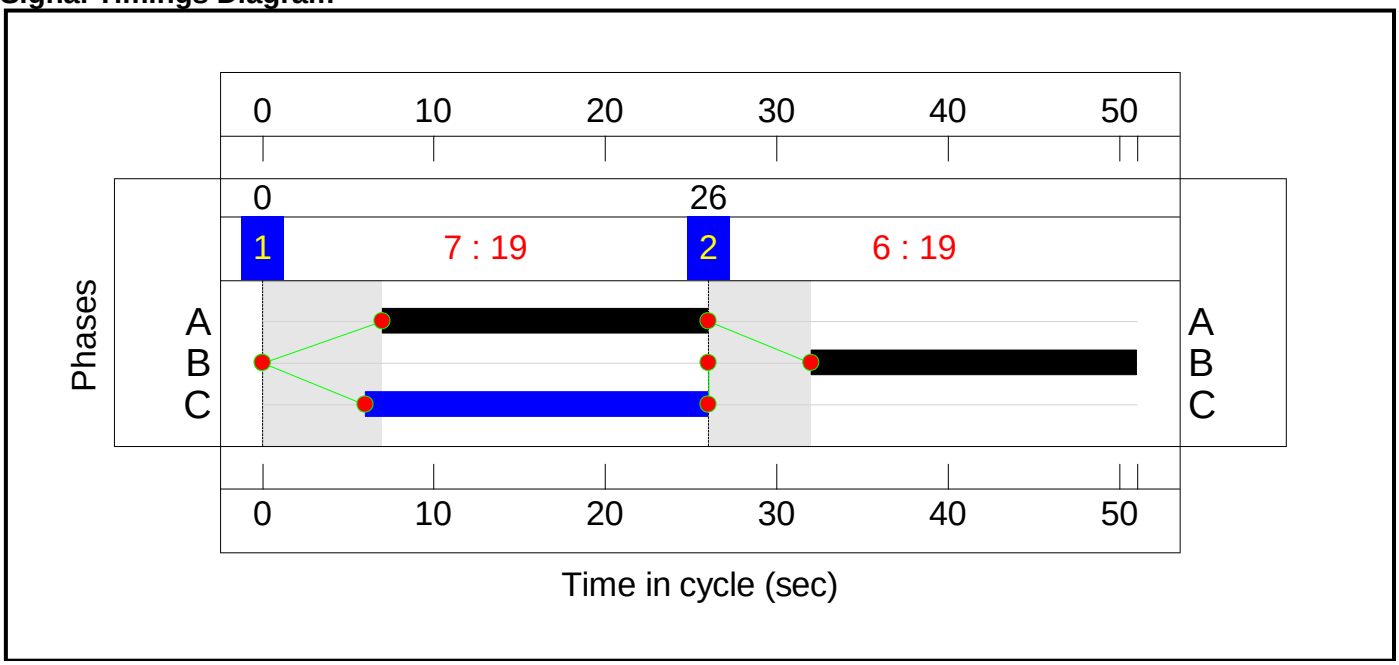
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	19	19
Change Point	0	26

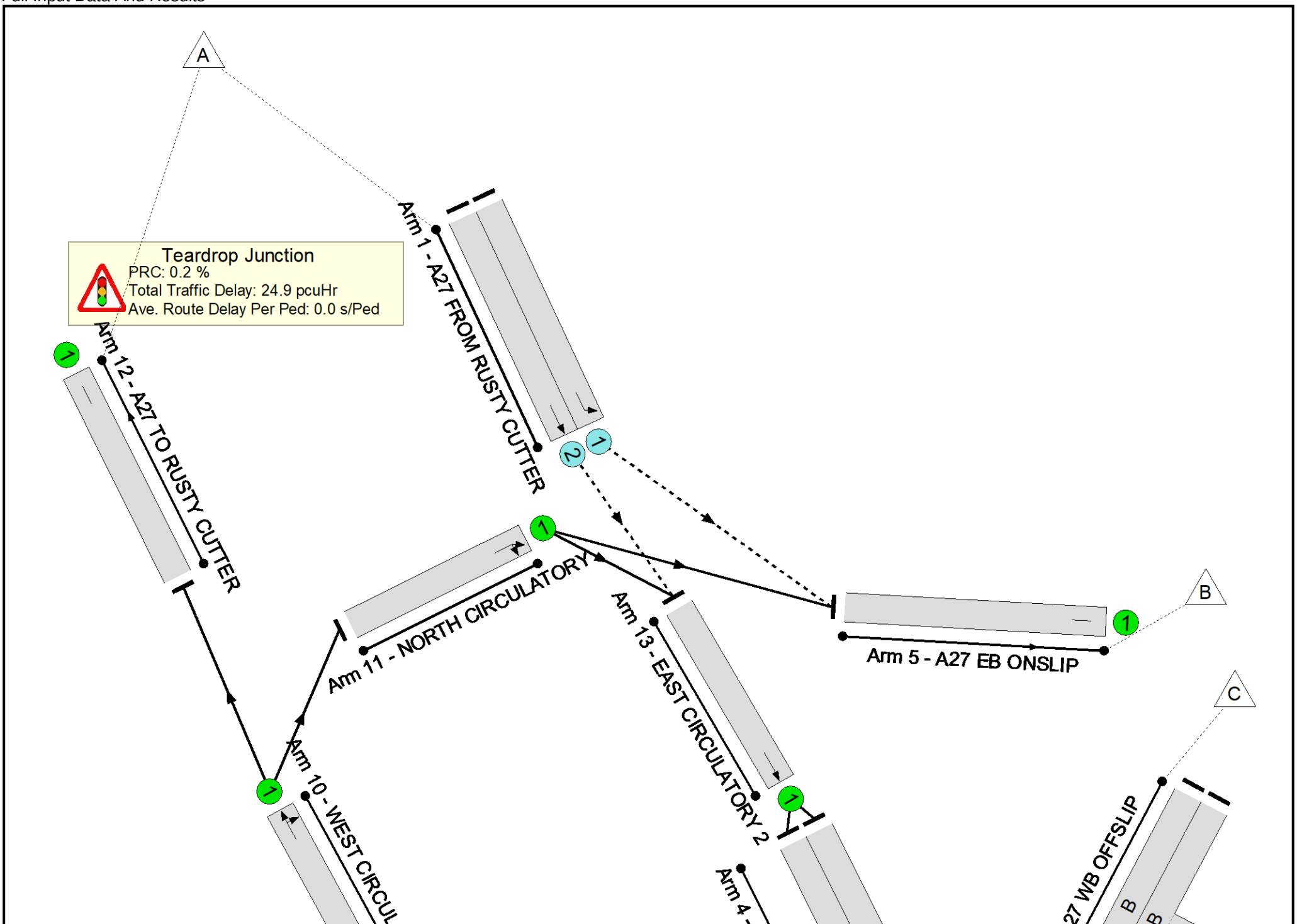
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**89.8%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**89.8%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1048	2043	2043	51.3%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	1607	1839	1839	87.4%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	478	1962:1963	754+147	53.1 : 53.1%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	691	1962	769	89.8%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	373	2005:1958	2+910	40.9 : 40.9%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	19	-	624	1940	761	82.0%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	19	-	983	2080:1911	665+445	88.5 : 88.5%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1069	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	702	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	589	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	790	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	695	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	561	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	696	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	601	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1257	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	21	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1236	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1607	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	20	-	0	-	0	0.0%

Full Input Data And Results

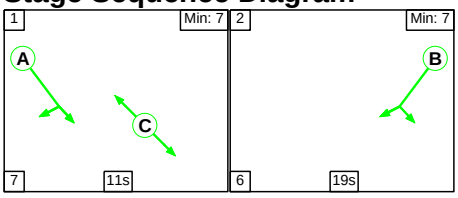
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**3401**	**0**	**0**	**10.2**	**14.7**	**0.0**	**24.9**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**3401**	**0**	**0**	**10.2**	**14.7**	**0.0**	**24.9**	**-**	**-**	**-**	**-**
1/1	1048	1048	1048	0	0	0.0	0.5	-	0.5	1.8	0.0	0.5	0.5
1/2	1607	1607	1607	0	0	0.0	3.4	-	3.4	7.5	0.0	3.4	3.4
2/2+2/1	478	478	-	-	-	1.5	0.6	-	2.1	15.8	4.2	0.6	4.8
2/3	691	691	-	-	-	2.8	4.0	-	6.8	35.4	9.0	4.0	13.0
3/2+3/1	373	373	746	0	0	0.0	0.3	-	0.3	3.3	0.0	0.3	0.3
4/1	624	624	-	-	-	2.4	2.2	-	4.6	26.6	7.8	2.2	10.0
4/2+4/3	983	983	-	-	-	3.5	3.7	-	7.1	26.2	8.0	3.7	11.7
5/1	1069	1069	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	702	702	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	589	589	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	790	790	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	695	695	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	561	561	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	696	696	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	601	601	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1257	1257	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	21	21	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1236	1236	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	1607	1607	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 0.2 Total Delay for Signalled Lanes (pcuHr): 20.64 Cycle Time (s): 51
PRC Over All Lanes (%): 0.2 Total Delay Over All Lanes(pcuHr): 24.88

Full Input Data And Results

Scenario 14: 'Base 2028 Plus Com Dev Plus Prop Dev PM' (FG14: 'Base 2028 Plus Com Dev Plus Prop Dev PM', Plan 1: 'Network Control Plan 1')

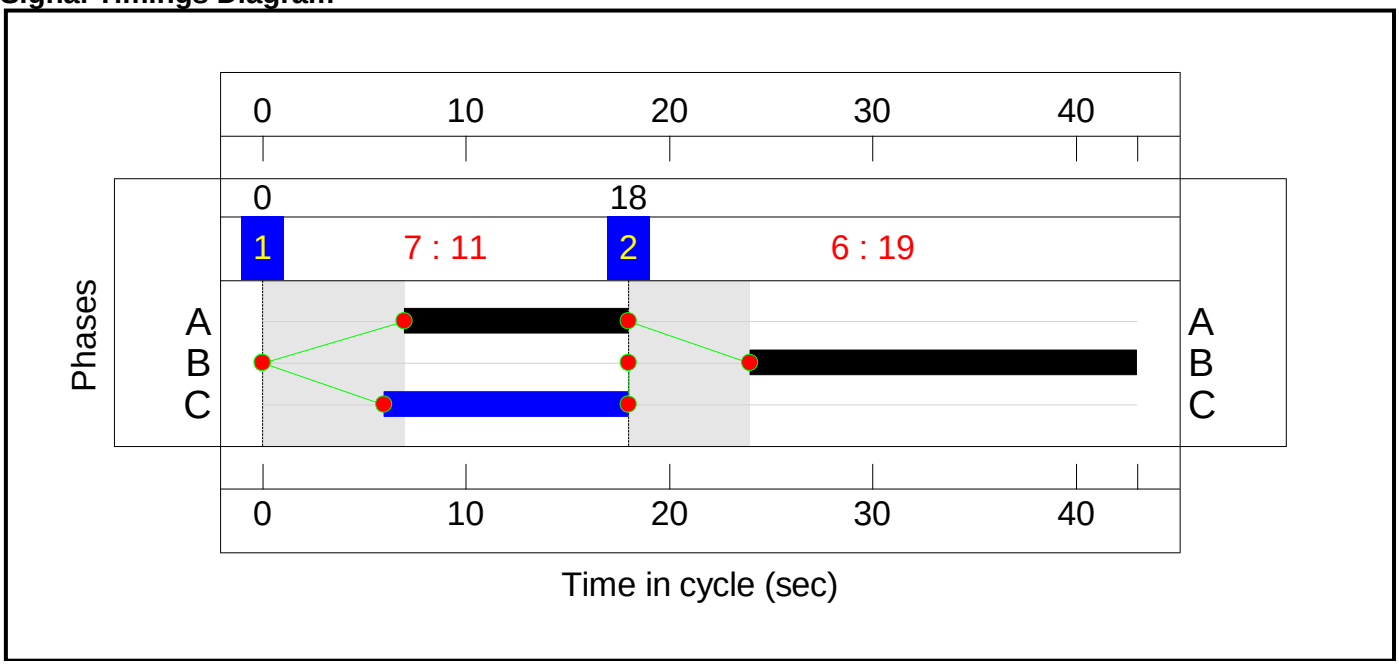
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	11	19
Change Point	0	18

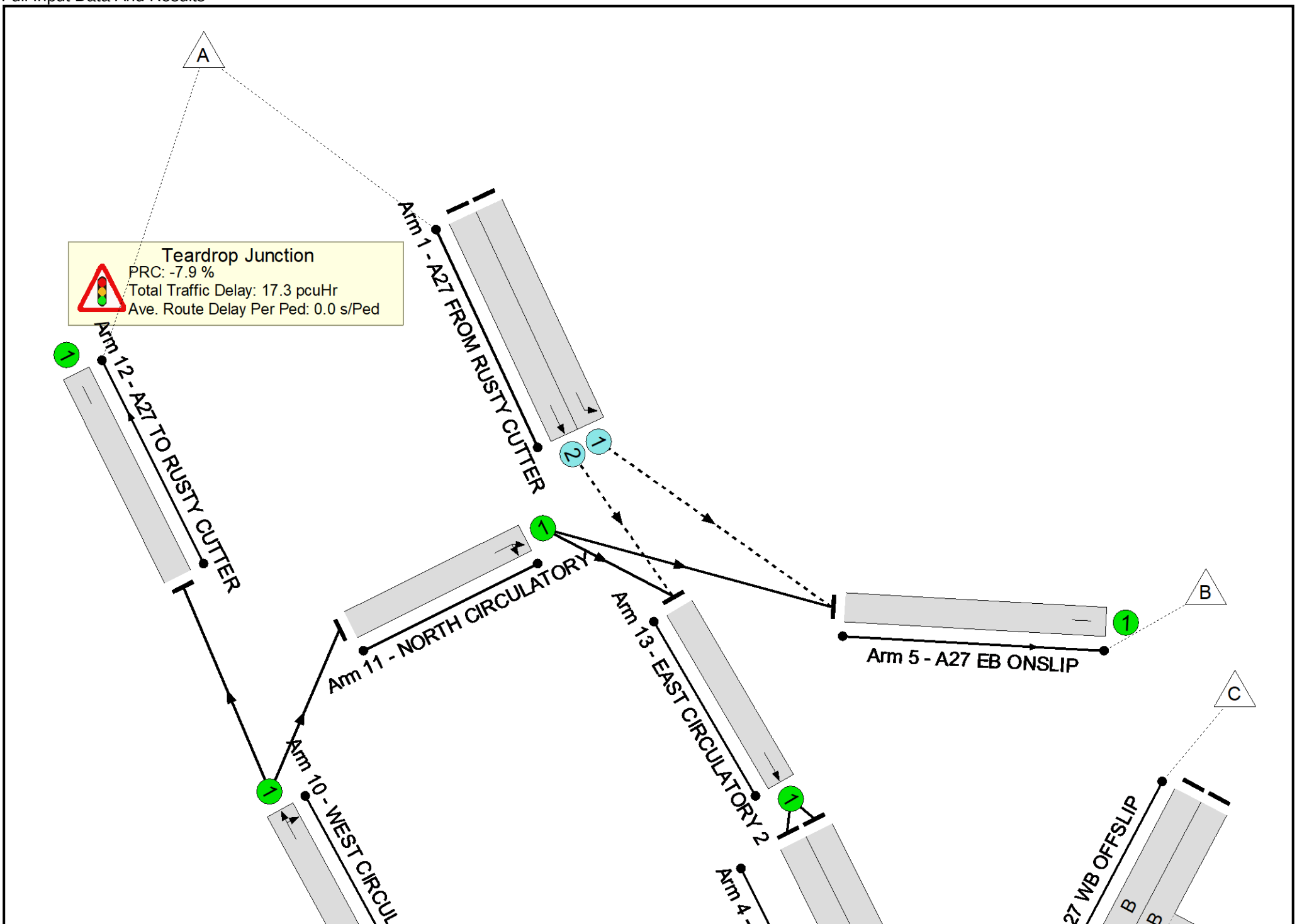
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**97.1%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**97.1%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1118	2043	2043	54.7%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	756	1839	1839	41.1%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	389	1962:1963	899+145	37.3 : 37.3%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	655	1962	913	71.8%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	1310	2005:1924	446+942	88.5 : 97.1%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	11	-	338	1940	541	62.4%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	11	-	418	2080:1911	66+533	69.8 : 69.8%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1144	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	392	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	46	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	706	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	656	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	544	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1051	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	1077	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1595	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	26	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1569	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	756	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	12	-	0	-	0	0.0%

Full Input Data And Results

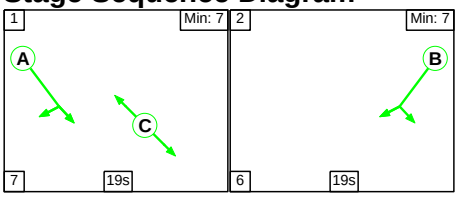
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**4494**	**0**	**0**	**5.8**	**11.5**	**0.0**	**17.3**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**4494**	**0**	**0**	**5.8**	**11.5**	**0.0**	**17.3**	**-**	**-**	**-**	**-**
1/1	1118	1118	1118	0	0	0.0	0.6	-	0.6	1.9	0.0	0.6	0.6
1/2	756	756	756	0	0	0.0	0.3	-	0.3	1.7	0.0	0.3	0.3
2/2+2/1	389	389	-	-	-	0.8	0.3	-	1.1	10.0	2.5	0.3	2.8
2/3	655	655	-	-	-	1.7	1.3	-	2.9	16.2	6.2	1.3	7.4
3/2+3/1	1310	1310	2620	0	0	0.5	7.1	-	7.5	20.7	5.1	7.1	12.2
4/1	338	338	-	-	-	1.3	0.8	-	2.1	22.3	3.5	0.8	4.3
4/2+4/3	418	418	-	-	-	1.6	1.1	-	2.7	23.4	3.9	1.1	5.1
5/1	1144	1144	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	392	392	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	46	46	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	706	706	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	656	656	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	544	544	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	1051	1051	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	1077	1077	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1595	1595	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	26	26	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1569	1569	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	756	756	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): 25.4 Total Delay for Signalled Lanes (pcuHr): 8.84 Cycle Time (s): 43
PRC Over All Lanes (%): -7.9 Total Delay Over All Lanes(pcuHr): 17.33

Full Input Data And Results

Scenario 15: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test AM' (FG15: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test AM', Plan 1: 'Network Control Plan 1')

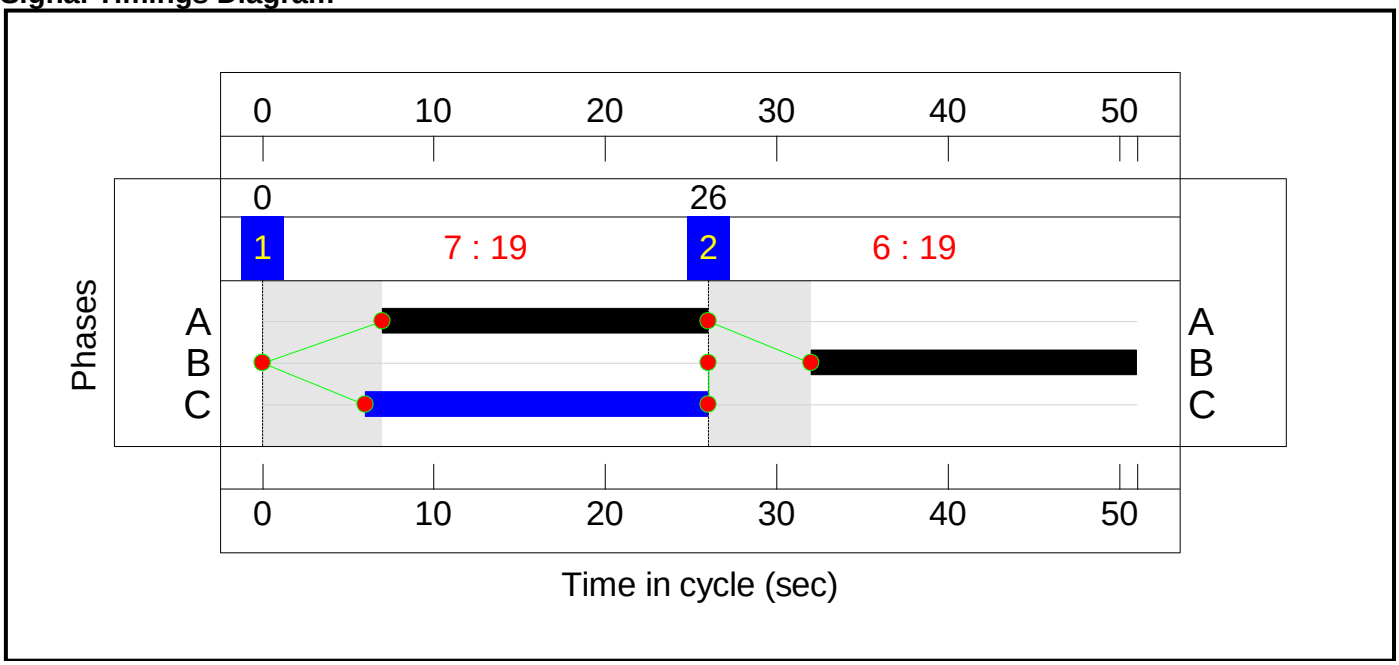
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	19	19
Change Point	0	26

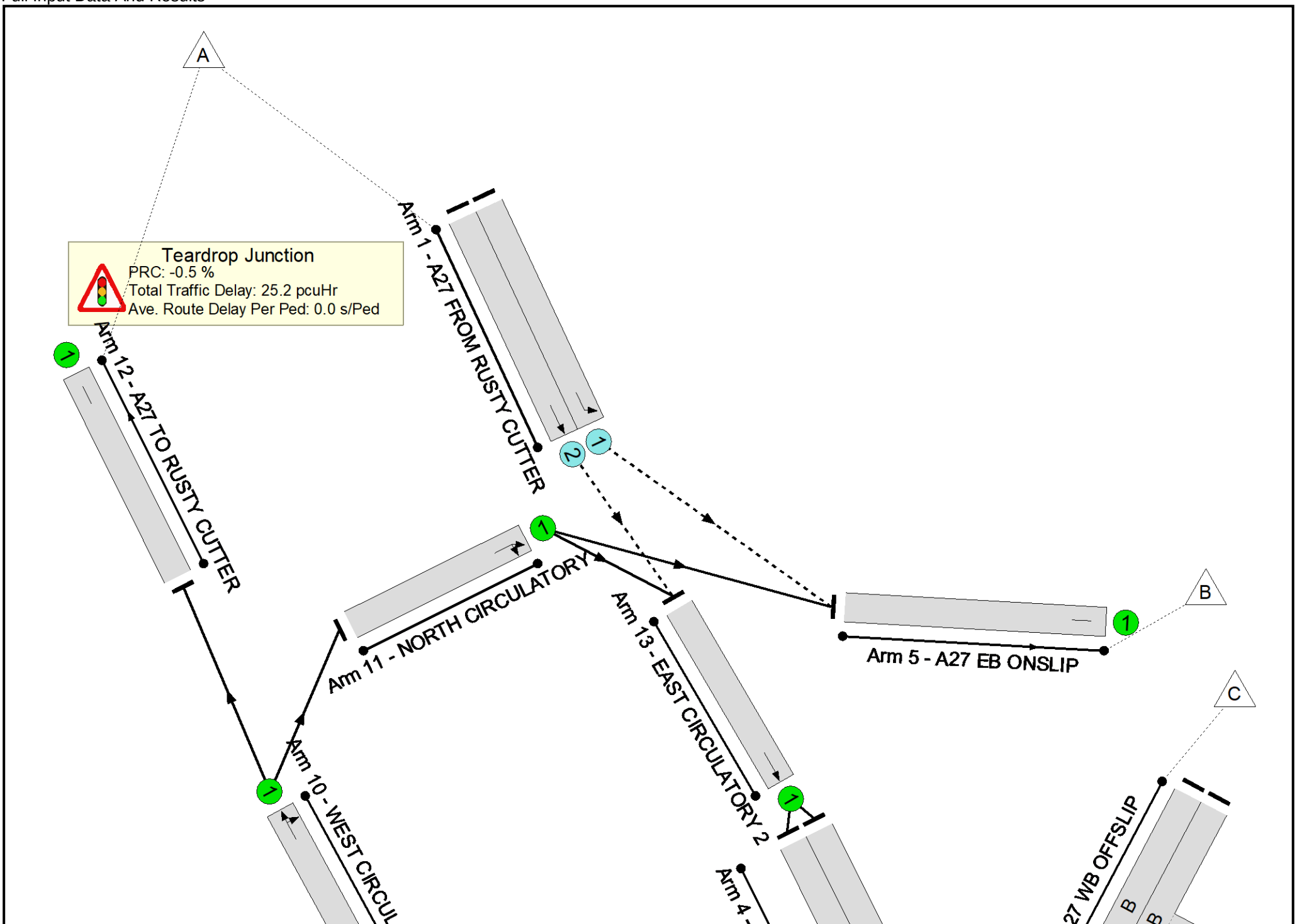
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**90.5%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**90.5%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1068	2043	2043	52.3%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	1607	1839	1839	87.4%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	480	1962:1963	754+146	53.3 : 53.3%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	696	1962	769	90.5%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	373	2005:1958	2+910	40.9 : 40.9%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	19	-	624	1940	761	82.0%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	19	-	983	2080:1911	665+445	88.5 : 88.5%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1089	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	702	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	589	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	792	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	700	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	563	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	701	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	601	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1264	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	21	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1243	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1607	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	20	-	0	-	0	0.0%

Full Input Data And Results

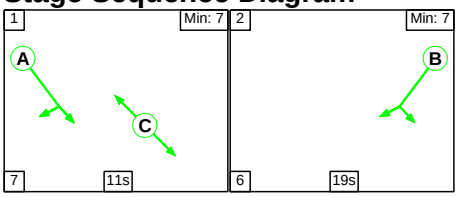
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network	**-**	**-**	**3421**	**0**	**0**	**10.3**	**14.9**	**0.0**	**25.2**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**3421**	**0**	**0**	**10.3**	**14.9**	**0.0**	**25.2**	**-**	**-**	**-**	**-**
1/1	1068	1068	1068	0	0	0.0	0.5	-	0.5	1.8	0.0	0.5	0.5
1/2	1607	1607	1607	0	0	0.0	3.4	-	3.4	7.5	0.0	3.4	3.4
2/2+2/1	480	480	-	-	-	1.5	0.6	-	2.1	15.8	4.2	0.6	4.8
2/3	696	696	-	-	-	2.8	4.2	-	7.1	36.6	9.3	4.2	13.5
3/2+3/1	373	373	746	0	0	0.0	0.3	-	0.3	3.3	0.0	0.3	0.3
4/1	624	624	-	-	-	2.4	2.2	-	4.6	26.6	7.8	2.2	10.0
4/2+4/3	983	983	-	-	-	3.5	3.7	-	7.1	26.2	8.0	3.7	11.7
5/1	1089	1089	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	702	702	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	589	589	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	792	792	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	700	700	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	563	563	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	701	701	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	601	601	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1264	1264	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	21	21	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1243	1243	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	1607	1607	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

C1 PRC for Signalled Lanes (%): -0.5 Total Delay for Signalled Lanes (pcuHr): 20.94 Cycle Time (s): 51
PRC Over All Lanes (%): -0.5 Total Delay Over All Lanes(pcuHr): 25.20

Full Input Data And Results

Scenario 16: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test PM' (FG16: 'Base 2028 Plus Com Dev Plus Prop Dev Plus Sensitivity Test PM', Plan 1: 'Network Control Plan 1')

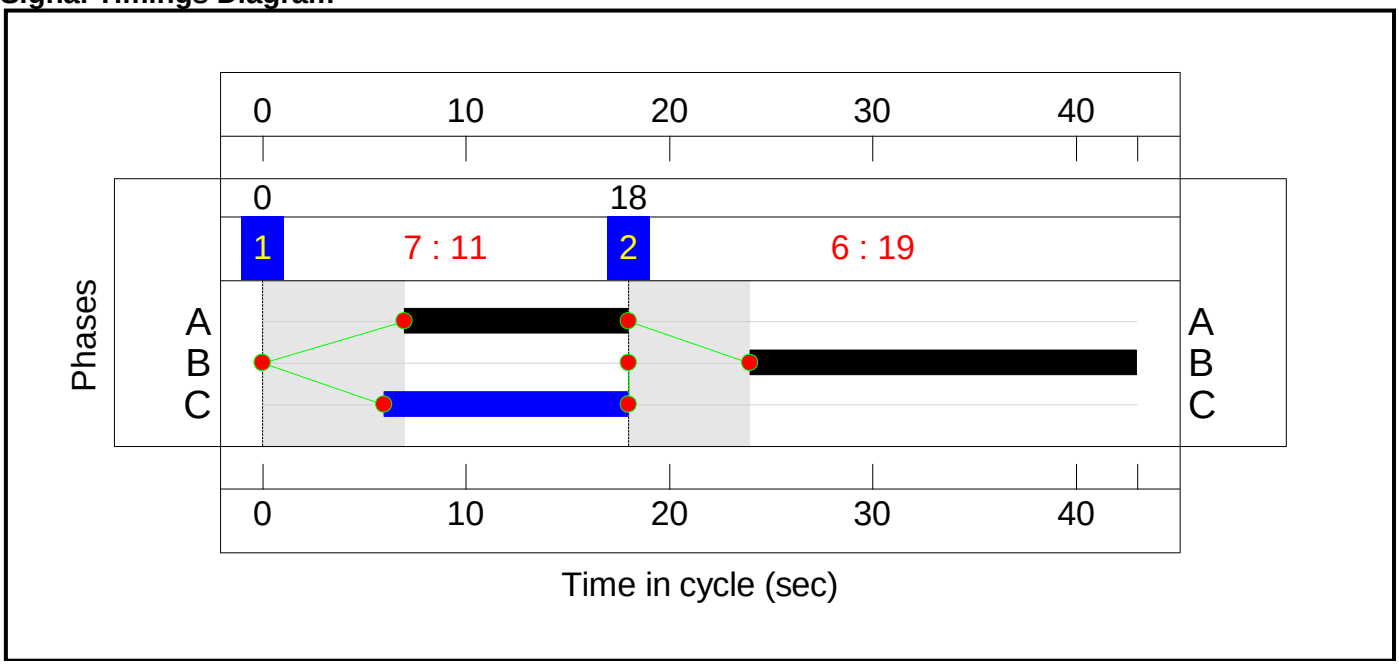
Stage Sequence Diagram



Stage Timings

Stage	1	2
Duration	11	19
Change Point	0	18

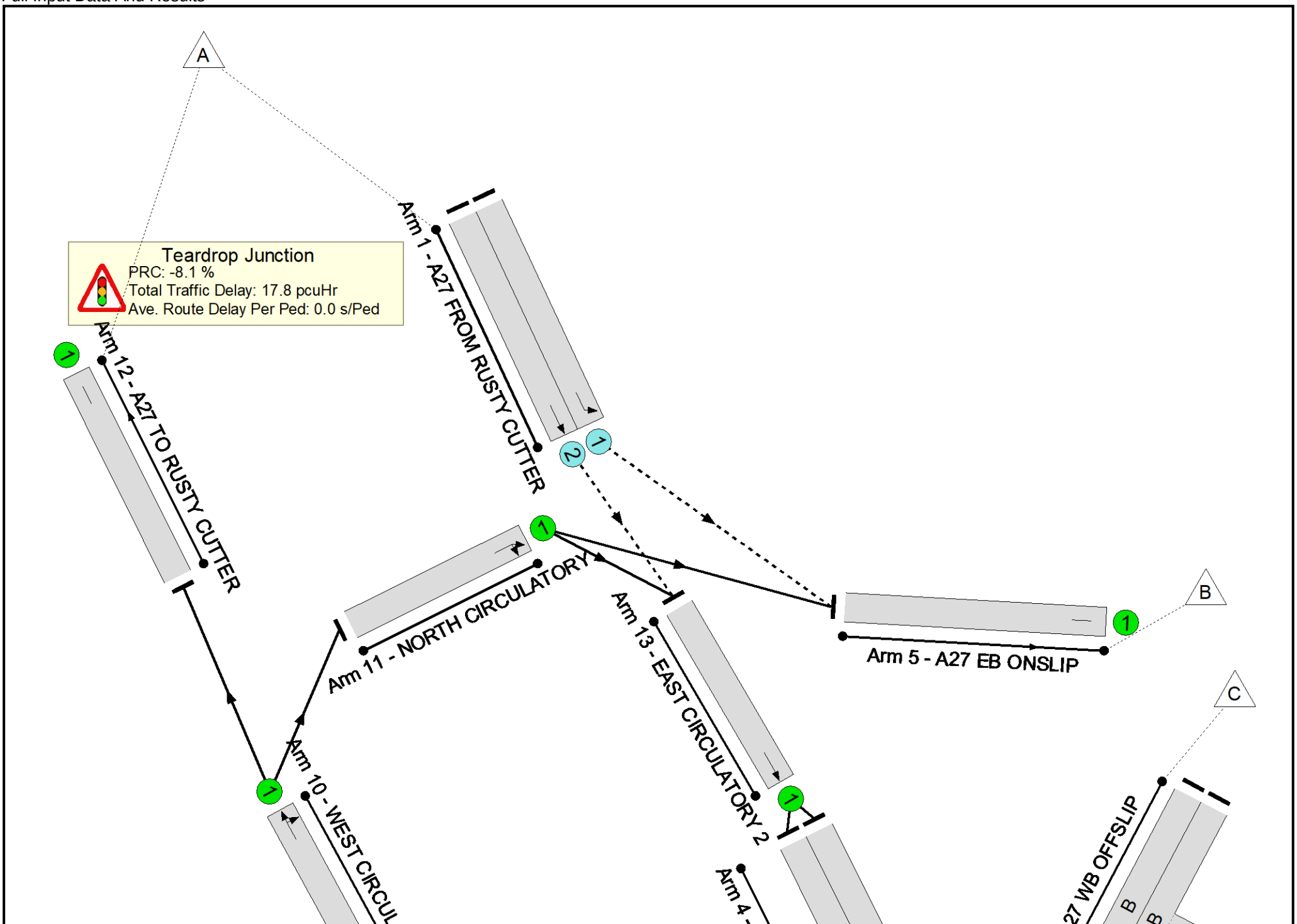
Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram

Full Input Data And Results



Full Input Data And Results

Full Input Data And Results

Network Results

Full Input Data And 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**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**97.3%**
Teardrop Junction	**-**	**-**	**N/A**	**-**	**-**		**-**	**-**	**-**	**-**	**-**	**-**	**97.3%**
1/1	A27 FROM RUSTY CUTTER Left	O	N/A	N/A	-		-	-	-	1128	2043	2043	55.2%
1/2	A27 FROM RUSTY CUTTER Ahead	O	N/A	N/A	-		-	-	-	756	1839	1839	41.1%
2/2+2/1	A27 WB OFFSLIP Left Ahead	U	N/A	N/A	B		1	19	-	395	1962:1963	899+142	37.9 : 37.9%
2/3	A27 WB OFFSLIP Ahead	U	N/A	N/A	B		1	19	-	666	1962	913	73.0%
3/2+3/1	HARTS FARM WAY WB Ahead Left	O	N/A	N/A	-		-	-	-	1310	2005:1924	444+940	88.9 : 97.3%
4/1	EAST CIRCULATORY 1 Ahead	U	N/A	N/A	A		1	11	-	338	1940	541	62.4%
4/2+4/3	EAST CIRCULATORY 1 Ahead Right	U	N/A	N/A	A		1	11	-	418	2080:1911	66+533	69.8 : 69.8%
5/1	A27 EB ONSLIP	U	N/A	N/A	-		-	-	-	1154	Inf	Inf	0.0%
6/1	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	392	Inf	Inf	0.0%
6/2	HARTS FARM WAY EB	U	N/A	N/A	-		-	-	-	46	Inf	Inf	0.0%
7/1	SOUTH CIRCULATORY Right Ahead	U	N/A	N/A	-		-	-	-	712	Inf	Inf	0.0%
7/2	SOUTH CIRCULATORY Right	U	N/A	N/A	-		-	-	-	667	Inf	Inf	0.0%
8/1	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	550	Inf	Inf	0.0%
8/2	WEST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	1062	Inf	Inf	0.0%
9/1	A27 WB ONSLIP	U	N/A	N/A	-		-	-	-	1077	Inf	Inf	0.0%

Full Input Data And Results

10/1	WEST CIRCULATORY 1 Right Ahead	U	N/A	N/A	-		-	-	-	1612	Inf	Inf	0.0%
11/1	NORTH CIRCULATORY Ahead Right	U	N/A	N/A	-		-	-	-	26	Inf	Inf	0.0%
12/1	A27 TO RUSTY CUTTER	U	N/A	N/A	-		-	-	-	1586	Inf	Inf	0.0%
13/1	EAST CIRCULATORY 2 Ahead	U	N/A	N/A	-		-	-	-	756	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	N/A	-	C		1	12	-	0	-	0	0.0%

Full 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	**-**	**-**	**4504**	**0**	**0**	**5.9**	**11.9**	**0.0**	**17.8**	**-**	**-**	**-**	**-**
Teardrop Junction	**-**	**-**	**4504**	**0**	**0**	**5.9**	**11.9**	**0.0**	**17.8**	**-**	**-**	**-**	**-**
1/1	1128	1128	1128	0	0	0.0	0.6	-	0.6	2.0	0.0	0.6	0.6
1/2	756	756	756	0	0	0.0	0.3	-	0.3	1.7	0.0	0.3	0.3
2/2+2/1	395	395	-	-	-	0.8	0.3	-	1.1	10.1	2.6	0.3	2.9
2/3	666	666	-	-	-	1.7	1.3	-	3.1	16.5	6.3	1.3	7.6
3/2+3/1	1310	1310	2620	0	0	0.5	7.4	-	7.8	21.6	5.1	7.4	12.4
4/1	338	338	-	-	-	1.3	0.8	-	2.1	22.3	3.5	0.8	4.3
4/2+4/3	418	418	-	-	-	1.6	1.1	-	2.7	23.4	3.9	1.1	5.1
5/1	1154	1154	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	392	392	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/2	46	46	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/1	712	712	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
7/2	667	667	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/1	550	550	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
8/2	1062	1062	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
9/1	1077	1077	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
10/1	1612	1612	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
11/1	26	26	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
12/1	1586	1586	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
13/1	756	756	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-

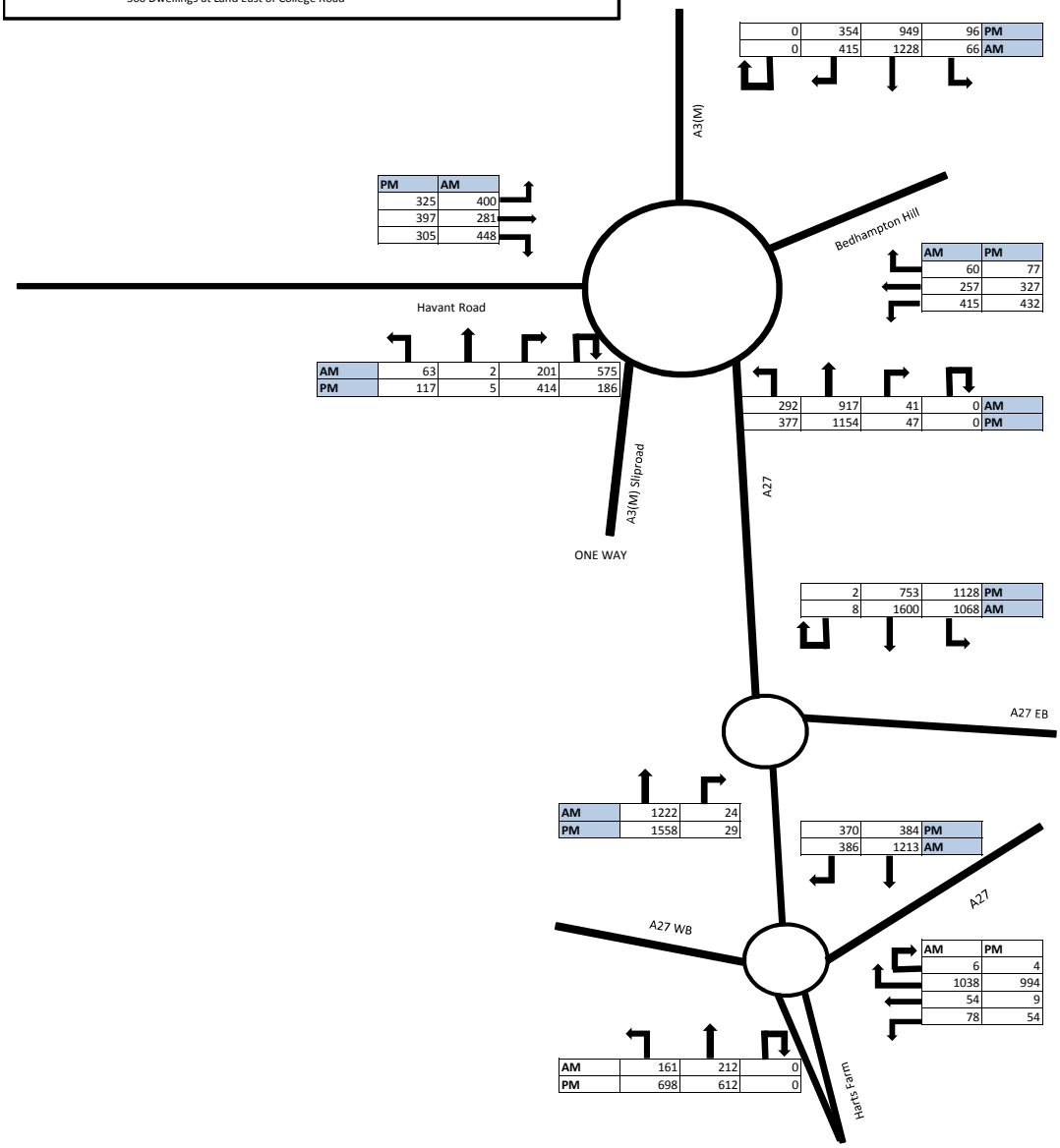
C1 PRC for Signalled Lanes (%): 23.3 Total Delay for Signalled Lanes (pcuHr): 8.98 Cycle Time (s): 43
PRC Over All Lanes (%): -8.1 Total Delay Over All Lanes(pcuHr): 17.80

Appendix V

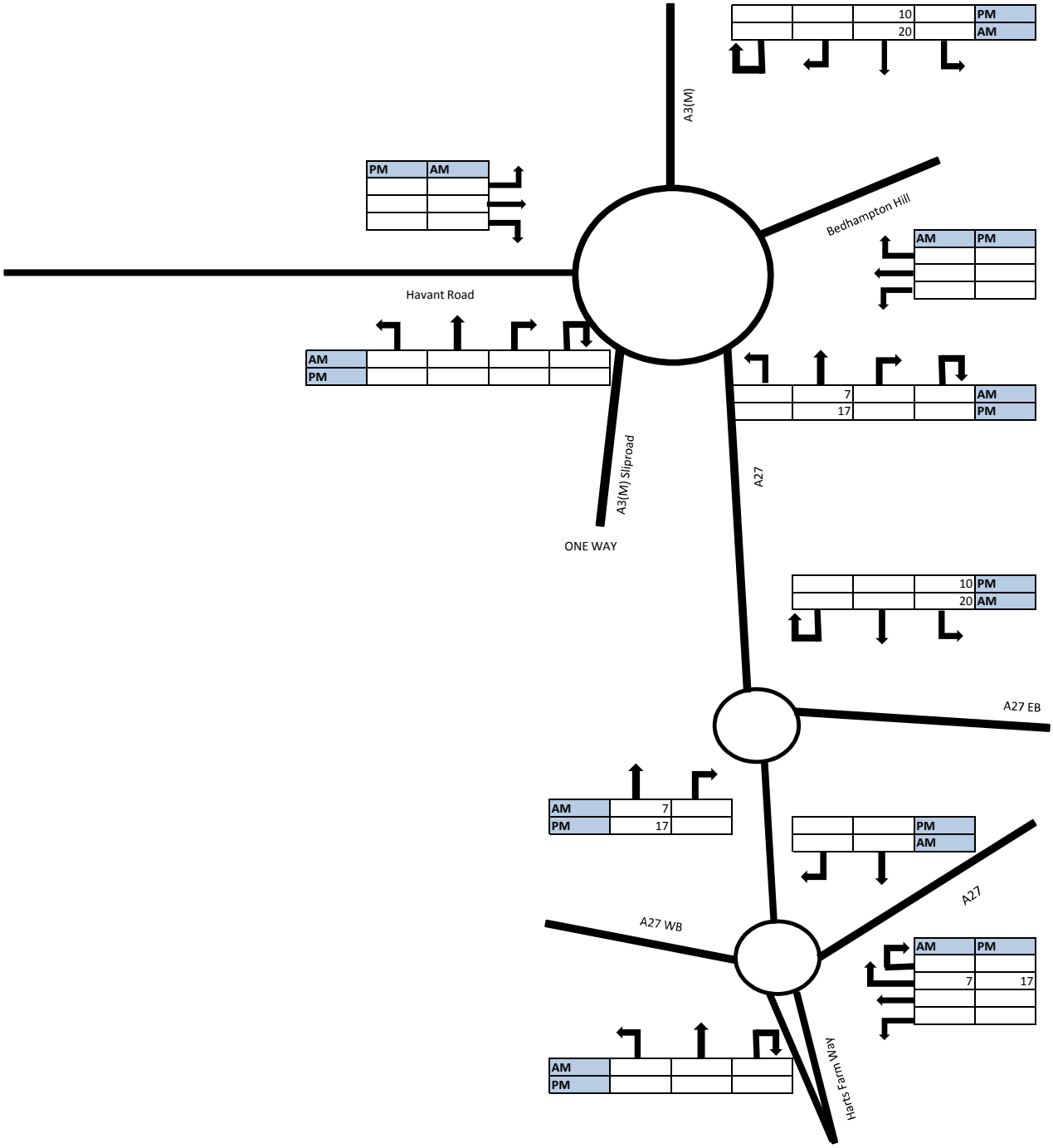
Project Name: Forty Acre Farm, Bedhampton
Project Number: 041.0023
Drawn By: JL
Approved By: MS

Scenario: Baseline 2028 Plus Comitted Development
Plus Proposed Development Plus Sensitivity Test

Sites Included:
100 Dwellings at Land North of Fort Purbrook
95 Dwellings at Former South Downs College Car Park
560 Dwellings at Land East of College Road



Project Name: Forty Acre Farm, Bedhampton
Project Number: 041.0023
Drawn By: JL
Approved By: MS

Scenario: Havant Borough Council Local Plan Sensitivity Test

Sites Included:
100 Dwellings at Land North of Fort Purbrook
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