

Path Journey Time

Path	From Location	To Location	Normal Calculated Flow (PCU/hr)	Normal journey time (s)	Normal journey dist (m)	Bus journeydist (m)	Tram journey dist (m)	Pedestrian journey dist (m)	Calculated Total Flow (PCU/hr)	Avg journey time (s)	Avg journey dist (m)
1	A	A	0	169.58	602.09	602.09	602.09	602.09	0	0.00	2408.36
2	B	A	125	122.19	521.86	521.86	521.86	521.86	125	122.19	521.86
3	B	A	711	117.19	512.56	512.56	512.56	512.56	711	117.19	512.56
5	B	A	0	226.22	521.86	521.86	521.86	521.86	0	0.00	2087.44
6	A	B	366	104.30	282.17	282.17	282.17	282.17	366	104.30	282.17
7	A	B	714	108.58	306.14	306.14	306.14	306.14	714	108.58	306.14
8	B	B	12	153.97	665.52	665.52	665.52	665.52	12	153.97	665.52
9	C	A	0	117.65	358.96	358.96	358.96	358.96	0	0.00	1435.84
10	C	B	258	157.53	506.76	506.76	506.76	506.76	258	157.53	506.76
11	C	B	881	159.20	474.19	474.19	474.19	474.19	881	159.20	474.19
13	B	C	413	170.68	400.00	400.00	400.00	400.00	413	170.68	400.00
14	A	C	0	116.73	483.00	483.00	483.00	483.00	0	0.00	1932.00
15	B	C	413	171.07	400.00	400.00	400.00	400.00	413	171.07	400.00
16	C	C	2	212.26	672.46	672.46	672.46	672.46	2	212.26	672.46
17	D	B	178	290.03	416.03	416.03	416.03	416.03	178	290.03	416.03
18	D	A	284	255.76	263.28	263.28	263.28	263.28	284	255.76	263.28
19	D	B	84	286.32	416.03	416.03	416.03	416.03	84	286.32	416.03
20	D	B	84	291.22	389.18	389.18	389.18	389.18	84	291.22	389.18
21	D	C	324	341.80	587.45	587.45	587.45	587.45	324	341.80	587.45
22	A	D	401	186.00	643.13	643.13	643.13	643.13	401	186.00	643.13
23	B	D	0	122.54	562.90	562.90	562.90	562.90	0	0.00	2251.60
24	B	D	312	226.57	562.90	562.90	562.90	562.90	312	226.57	562.90
25	C	D	575	134.07	400.00	400.00	400.00	400.00	575	134.07	400.00
26	D	D	9	388.75	747.44	747.44	747.44	747.44	9	388.75	747.44

Final Prediction Table

Link Results

				SIGNALS		FLOWS		PERFORMANCE				PER PCU			QUEUES	
Link	Name	Major link	Traffic node	Controller stream	Phase	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual green (s per cycle)	Wasted time total (s per cycle)	Degree of saturation (%)	Practical reserve capacity (%)	JourneyTime (s)	Mean Delay per Veh (s)	Mean stops per Veh (%)	Mean max queue (PCU)	Mean end of red queue (PCU)
700			7	7	C	714	1954	25	0.00	98	-9	94.35	75.93	158.52	24.42	19.46
701			7	7	C	767	2097	25	0.00	98	-9	92.75	74.33	157.01	25.89	20.57
710		(710)	7	7	D	242	2088	33	0.00	50	78	28.23	15.87	103.20	5.59	5.19
711		710				12						30.87	18.51	72.44		
712		710				258						17.61	5.25	10.26		
720		(720)	7	7	D	77	2231	33	0.00	88	2	35.82	23.78	129.70	7.38	5.76
721		720				880						27.12	15.08	43.33		
730		(730)	7	7	D	308	2299	33	24.00	28	224	27.41	15.68	102.23	6.17	5.83
731		730				2						15.97	4.23	23.71		
790			7			1226	2010	70	0.00	61	48	14.23	2.29	0.00	0.78	
791			7			1323	2124	70	0.00	62	44	11.55	2.31	6.60	9.69	
800			8	8	A	1137 <	2001	37	0.00	105	-14	147.08	122.26	210.79	54.60 +	43.44
801			8	8	A	848	2110	37	0.00	74	22	43.05	18.23	80.96	13.90	8.95
810		(810)	8	8	B	0	2182	21	10.00	44	104	0.00	0.00	0.00	4.47	4.47
811		810				2						51.78	42.43	103.75		
812		810				300						46.55	37.20	75.71		
820		(820)	8	8	B	401	2295	21	0.00	57	59	20.19	11.17	82.61	7.33	4.29
821		820				8						45.15	36.12	76.66		
890			8			696	1911	70	0.00	36	147	23.98	1.48	0.00	0.29	
891			8			394	2042	70	16.00	19	366	23.59	1.09	0.00	0.12	
900			9	9	A	833	2158	26	0.00	100	-10	109.45	84.53	168.73	30.54	24.53
901			9	9	A	883	2287	26	0.00	100	-10	107.86	82.95	167.33	31.98	25.61
910		(910)	9	9	B	423	1995	32	0.00	89	2	54.86	36.54	101.17	18.35	12.18
911		910				401						48.44	30.11	120.05		
912		910				8						47.72	29.39	117.98		
920			9	9	B	723	2187	32	3.00	70	28	44.24	26.38	71.35	10.05	9.97
990			9			1286	2133	70	0.00	60	49	24.62	2.12	0.00	0.76	
1000			10	10	A	462	2139	13	0.00	108	-17	247.56	199.56	253.50	30.48	28.94
1001			10	10	A	500	2317	13	0.00	108	-17	243.85	195.85	251.68	32.48	30.81
1010		(1010)	10	10	B	0	2071	45	29.00	9	909	0.00	0.00	0.00	0.84	0.83
1011		1010				0						0.00	0.00	0.00		
1012		1010				121						16.08	5.31	34.59		
1020		(1020)	10	10	B	258	2247	45	0.00	66	36	16.24	6.04	44.50	9.74	7.28
1021		1020				723						21.57	11.36	49.95		
1030			10	10	B	882	2253	45	10.00	60	51	12.66	3.10	13.11	9.60	1.21
1090			10			385	2051	70	26.00	19	380	8.20	1.08	0.00	0.12	
1091			10			711	2164	70	27.00	33	174	8.33	1.24	0.00	0.24	

Network Results

	Distance travelled (PCU-km/hr)	Time spent (PCU-hr/hr)	Mean journey speed (kph)	Uniform delay (PCU-hr/hr)	Random plus oversat delay (PCU-hr/hr)	Weighted cost of delay (£ per hr)	Weighted cost of stops (£ per hr)	Excess queue penalty (£ per hr)	Performance Index (£ per hr)
Normal traffic	2687.19	289.39	9.29	50.14	147.70	905.52	268.11	599.31	1772.94
Bus									
Tram									
Pedestrians									
TOTAL	2687.19	289.39	9.29	50.14	147.70	905.52	268.11	599.31	1772.94

- | < = adjusted flow warning (upstream links/traffic streams are over-saturated)
- | * = Traffic Stream - Normal, Bus or Tram Stop or Delay weighting has been set to a value other than 100%
- | ^ = Traffic Stream - Normal, Bus or Tram Stop or Delay Path weighting has been set to a value other than 100%
- | + = average link/traffic stream excess queue is greater than 0
- | **P.I. = PERFORMANCE INDEX**



H.4. M4 Junction 43 Queue Validation

M4 Junction 43 2021 Baseline vs 2021 Survey Queue Validation

Link	Link Description	2021 Baseline					
		AM Peak (07:45-08:45)			PM Peak (16:30-17:30)		
		Degree of saturation (%)	Mean max queue (PCU)	Observed queue (PCU)	Degree of saturation (%)	Mean max queue (PCU)	Observed queue (PCU)
700	M4 J43 SB Off-Slip - Lane 1	78	10.04	7.92	88	13.45	8.00
701	M4 J43 SB Off-Slip - Lane 2	78	10.66	4.08	88	14.2	6.33
710	M4 J43 NB Gyratory - Lane 1	49	4.77	0.33	54	5.4	4.25
720	M4 J43 NB Gyratory - Lane 2	47	1.12	0.00	65	2.96	5.58
730	M4 J43 NB Gyratory - Lane 3	26	6.42	1.58	17	4.02	3.00
800	A465 approach to M4 J43 - Lane 1	96	32.18	10.92	74	13.73	10.75
801	A465 approach to M4 J43 - Lane 2	73	14.33	11.08	57	8.64	6.67
810	A465 Gyratory - Lane 1	85	5.13	6.17	53	0.83	0.58
820	A465 Gyratory - Lane 2	45	3.76	1.42	42	3.43	2.33
900	M4 NB Off-Slip - Lane 1	91	13.8	14.00	89	15.94	5.75
901	M4 NB Off-Slip - Lane 2	91	14.38	12.17	89	16.65	8.08
910	M4 J43 SB Gyratory - Lane 1	59	9.63	4.50	60	9.14	6.25
920	M4 J43 SB Gyratory - Lane 2	57	10.77	3.83	51	7.15	8.00
990	B4290 exit from M4 J43	27	0.18		31	0.23	
1000	B4290 approach to M4 J43 - Lane 1	90	10.68	6.58	80	7.79	9.50
1001	B4290 approach to M4 J43 - Lane 2	90	11.2	6.83	80	8.3	6.75
1010	B4290 Gyratory - Lane 1	23	1.69	0.08	17	1.92	1.25
1020	B4290 Gyratory - Lane 2	71	8.32	2.83	63	7.4	3.67
1030	B4290 Gyratory - Lane 3	35	1.53	4.50	46	4.85	0.25

H.5. M4 Junction 43 – Proposed Highway Mitigation Layout

TRANSYT 16	
Version: 16.0.1.8473 © Copyright TRL Limited, 2019	
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Filename: Coed Darcy - M4 J43 Phase 2_new masterplan_latest flows_HP_v1.t15

Path: C:\Data\PATE2211\Coed Darcy\M4 J43 Phase 2

Report generation date: 12/11/2021 15:00:08

»A5 - 2026 Base + HG(140) + Coed Darcy AM : D5 - 2026 Base + HG(140) + Coed Darcy, AM :

»A6 - 2026 Base + HG(140) + Coed Darcy PM : D6 - 2026 Base + HG(140) + Coed Darcy, PM :

Summary of network performance

AM					
	Set ID	PI (£ per hr)	Total delay (PCU-hr/hr)	Highest DOS	Number oversaturated
2026 Base + HG(140) + Coed Darcy AM - 2026 Base + HG(140) + Coed Darcy					
Network	A5 D5	1408.18	74.25	85% (L 801)	0 (0%)

PM					
	Set ID	PI (£ per hr)	Total delay (PCU-hr/hr)	Highest DOS	Number oversaturated
2026 Base + HG(140) + Coed Darcy PM - 2026 Base + HG(140) + Coed Darcy					
Network	A6 D6	853.90	63.93	84% (L 1002)	0 (0%)

File summary

File description

File title	Coed Darcy Off Site Highways Mitigation
Location	M4 J43
Site number	
UTCRegion	
Driving side	Left
Date	29/05/2019
Version	v1
Status	Updated Phasing Strategy (May 2019)
Identifier	
Client	St. Modwen Developments
Jobnumber	5104234.175
Enumerator	Hitav Patel / Liam Hartas
Description	Assess revised phasing strategy.

Model and Results

Enable controller offsets	Enable fuel consumption	Enable quick flares	Display journey time results	Display OD matrix distances	Display level of service results	Display blocking and starvation results	Display end of red and green queue results	Display excess queue results	Display separate uniform and random results	Display unweighted results	Display TRANSYT 12 style timings	Display effective greens in results	Display Red-With-Amber	Display End-Of-Green Amber	c m
			✓			✓	✓	✓	✓	✓	✓	✓			

Units

Cost units	Speed units	Distance units	Fuel economy units	Fuel rate units	Mass units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
£	kph	m	mpg	l/h	kg	PCU	PCU	perHour	s	-Hour	perHour

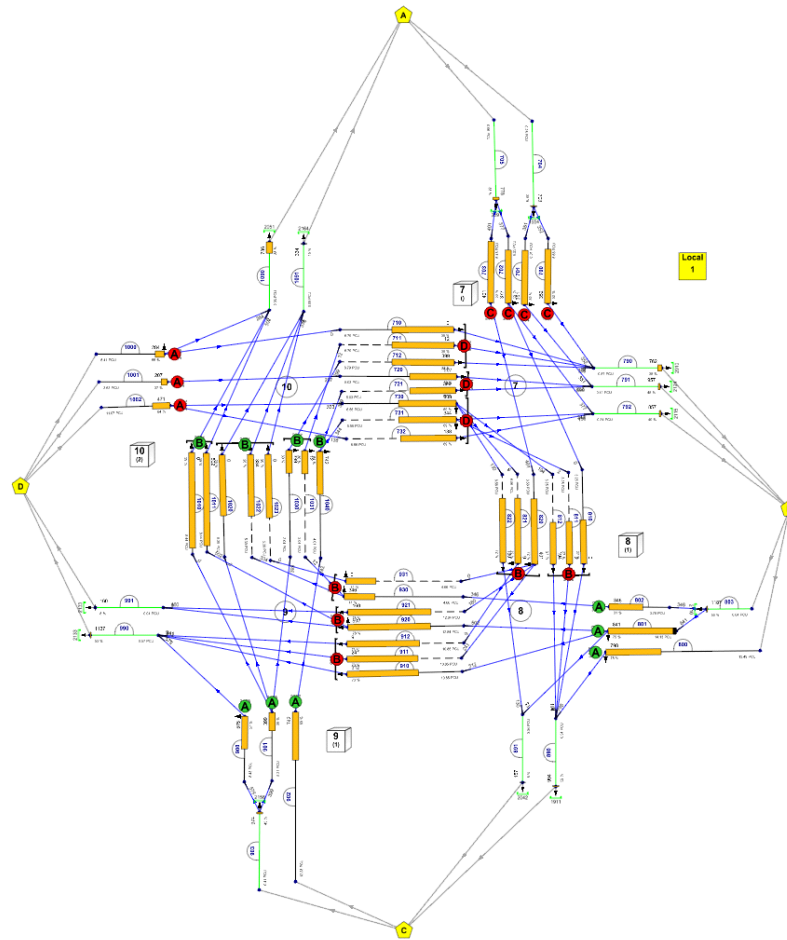
Sorting

Show names instead of IDs	Sorting direction	Sorting type	Ignore prefixes when sorting	Analysis/demand set sorting	Link grouping	Source grouping	Colour Analysis/Demand Sets
	Ascending	Numerical		ID	Normal	Normal	✓

Simulation options

Criteria type	Stop criteria (%)	Stop criteria time (s)	Stop criteria number of trials	Random seed	Results refresh speed (s)	Average animation capture interval (s)	Use quick response	Do flow sampling	Uniform vehicle generation	Last run random seed	Last run number of trials	Last run time taken (s)
Delay	3.00	999	200	-1	3	60	✓			0	0	0.00

Network Diagrams



Coed Darcy Off Site Highways Mitigation
Cyclotime 0s / 70s
Timesteps 69 / 70
6, 6
Diagram produced using TRANSYT 16.0.1.8473

A5 - 2026 Base + HG(140) + Coed Darcy AM

D5 - 2026 Base + HG(140) + Coed Darcy, AM

Summary

Data Errors and Warnings

No errors or warnings

Run Summary

Analysis set used	Run start time	Run finish time	Run duration (s)	Modelling start time (HH:mm)	Network Cycle Time (s)	Performance Index (£ per hr)	Total network delay (PCU-hr/hr)	Highest DOS (%)	Item with highest DOS	Number of oversaturated items	Percentage of oversaturated items (%)	Item with worst signalised PRC	Item with worst unsignalised PRC
5	10/11/2021 16:15:20	10/11/2021 16:15:21	1.02	07:45	70	1408.18	74.25	85.16	801	0	0	801	890

Analysis Set Details

Name	Use Simulation	Description	Use specific Demand Set(s)	Specific Demand Set(s)	Optimise specific Demand Set(s)	Include in report	Locked
2026 Base + HG(140) + Coed Darcy AM			✓	D5		✓	

Demand Set Details

Scenario name	Time Period name	Description	Composite	Demand sets	Start time (HH:mm)	Locked	Run automatically
2026 Base + HG(140) + Coed Darcy	AM				07:45		✓

Network Options

Network timings

Network cycle time (s)	Minimum possible cycle time (s)	Absolute minimum possible cycle time (s)	Restrict to SCOOT cycle times	Time segment length (min)	Number of time segments	Modelled time period (min)
70	26	26		60	1	60

Signals options

Start displacement (s)	End displacement (s)
2	3

Advanced

Phase minimum broken penalty (£)	Phase maximum broken penalty (£)	Intergreen broken penalty (£)	Starting Red-with-Amber (s)	Missing stage transition options
10000.00	10000.00	10000.00	2	Assume banned

Traffic options

Traffic model	Vehicle flow scaling factor (%)	Pedestrian flow scaling factor (%)	Cruise times or speeds
Platoon Dispersion (PDM)	100	100	Cruise Speeds

Advanced

Resolution	DOS Threshold (%)	Cruise scaling factor (%)	Use link stop weightings	Use link delay weightings	Exclude pedestrians from traffic model	Exclude pedestrians from results calculation	Random delay mode	PCU Length (m)	Calculate results for Path Segments	Generate PDM Profile Data
1	90	100	✓	✓			Simplified (TRANSYT 12)	5.75		✓

Normal Traffic parameters

Dispersion type	Dispersion coefficient	Travel time coefficient
Default	35	80

Normal Traffic Types

Name	PCU Factor
Normal	1.00

Bus parameters

Name	PCU Factor	Dispersion type	Acceleration (ms ² [-2])	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms ² [-2])	Stationary time coefficient	Cruise time coefficient
Tram	1.00	Default	0.94	100	100

Pedestrian parameters

Dispersion type
Default

Optimisation options

Enable optimisation	Auto redistribute	Optimisation level	Enable OUT Profile accuracy
✓	✓	Offsets Only	✓

Advanced

Optimisation type	OUTProfile accuracy (%)	SASart temperature	SACooling factor	Random seed	Use enhanced optimisation	Auto optimisation order	Optimisation order	Master controller	Offsets relative to master controller	Master controller offset after each run
Simulated Annealing	10, 10, 1, 1, 0.1, 0.01, 0.01	300.00	100.00	1	✓	✓	7, 8, 9, 10			Do nothing

Economics

Vehicle Monetary Value Of Delay (£ per PCU-hr)	Vehicle Monetary Value Of Stops (£ per 100 stops)	Pedestrian monetary value of delay (£ per Ped-hr)
14.20	2.60	14.20

Traffic Nodes

Traffic Nodes

Traffic node	Name	Description
(ALL)		

Links

Links

Link	Name	Description	Traffic node	Length (m)	Has Saturation Flow	Use RR67	Saturation flow (PCU/hr)	Cell saturation flow (PCU/hr)	Is signal controlled	Is give way	Traffic type	Is minor shared	Major link	Allow Nearside Turn On Red
700			7	40.00	✓		1957	1800	✓		Normal			
701			7	40.00	✓		1954		✓		Normal			
702			7	40.00	✓		2097		✓		Normal			
703			7	40.00	✓		2097	1800	✓		Normal			
704			7	160.00	✓		1954				Normal			
705			7	160.00	✓		2097				Normal			
710			7	109.89	✓		2088		✓		Normal			
711				109.89							Normal	✓	710	
712				109.89							Normal	✓	710	
720			7	107.01	✓		2231		✓		Normal			
721				107.01							Normal	✓	720	
730			7	104.31	✓		2299		✓		Normal			
731				104.31							Normal	✓	730	
732				104.31							Normal	✓	730	
790			7	82.17	✓		2010				Normal			
791			7	82.17	✓		2124				Normal			
792			7	82.87	✓		2115				Normal			
800			8	200.00	✓		2001		✓		Normal			
801			8	40.00	✓		2110		✓		Normal			
802			8	40.00	✓		2110	1800	✓		Normal			
803			8	160.00	✓		2110				Normal			
810			8	83.00	✓		2182		✓		Normal			
811				83.14							Normal	✓	810	
812				83.14							Normal	✓	810	
820			8	80.23	✓		2295		✓		Normal			
821				80.23							Normal	✓	820	
822				80.23							Normal	✓	820	
890			8	200.00	✓		1911				Normal			
891			8	200.00	✓		2042				Normal			
900			9	100.00	✓		2158	1800	✓		Normal			
901			9	100.00	✓		2158		✓		Normal			
902			9	200.00	✓		2287		✓		Normal			
903			9	100.00	✓		2158				Normal			
910			9	162.90	✓		1995		✓		Normal			
911				162.90							Normal	✓	910	
912				162.90							Normal	✓	910	
920			9	158.76	✓		2187		✓		Normal			
921	(untitled)			158.76							Normal	✓	920	
930	(untitled)		9	158.76	✓		2187		✓		Normal			
931				158.76							Normal	✓	930	
990			9	200.00	✓		2133				Normal			
991	(untitled)		9	200.00	✓		2133				Normal			
1000			10	200.00	✓		2139		✓		Normal			
1001			10	200.00	✓		2317		✓		Normal			
1002			10	200.00	✓		2317		✓		Normal			
1010	(untitled)		10	95.68	✓		2071		✓		Normal			
1011	(untitled)			95.68							Normal	✓	1010	
1020			10	95.68	✓		2071		✓		Normal			
1022				95.68							Normal	✓	1020	
1023	(untitled)			95.68							Normal	✓	1020	
1030			10	90.73	✓		2247		✓		Normal			
1031				90.73							Normal	✓	1030	
1040			10	85.01	✓		2253		✓		Normal			
1090			10	63.28	✓		2051				Normal			
1091			10	63.07	✓		2164				Normal			

Modelling

Link	Traffic model	Stop weighting (%)	Delay weighting (%)	Assignment Cost Weighting (%)	Exclude from results calculation	Max queue storage (PCU)	Has queue limit	Queue limit (PCU)	Excess queue penalty (£)	Has degree of saturation limit
700	Flare	0	20	100		0.00				
701	NetworkDefault	0	20	100		0.00				
702	NetworkDefault	0	20	100		0.00				
703	Flare	0	20	100		0.00				
704	NetworkDefault	100	100	100		0.00				
705	NetworkDefault	100	100	100		0.00				
710	NetworkDefault	500	100	100		12.50	✓	10.00	1000.00	
711	NetworkDefault	500	100	100					0.00	
712	NetworkDefault	500	100	100					0.00	
720	NetworkDefault	500	100	100		12.50	✓	10.00	1000.00	
721	NetworkDefault	500	100	100					0.00	
730	NetworkDefault	500	100	100		13.00	✓	11.00	1000.00	
731	NetworkDefault	500	100	100					0.00	
732	NetworkDefault	100	100	100					0.00	
790	NetworkDefault	100	100	100		0.00				
791	NetworkDefault	100	100	100		0.00				
792	NetworkDefault	100	100	100		0.00				
800	NetworkDefault	0	20	100		0.00				
801	NetworkDefault	20	0	100		0.00				
802	Flare	20	0	100		0.00				
803	NetworkDefault	100	100	100		0.00				
810	NetworkDefault	500	100	100		7.00	✓	4.00	1000.00	
811	NetworkDefault	500	100	100					0.00	
812	NetworkDefault	500	100	100					0.00	
820	NetworkDefault	500	100	100		9.00	✓	5.00	1000.00	
821	NetworkDefault	500	100	100					0.00	
822	NetworkDefault	100	100	100					0.00	
890	NetworkDefault	100	100	100		0.00				
891	NetworkDefault	100	100	100		0.00				
900	Flare	0	20	100		0.00				
901	NetworkDefault	0	20	100		0.00				
902	NetworkDefault	0	20	100		0.00				
903	NetworkDefault	100	100	100		0.00				
910	NetworkDefault	500	100	100		17.50				
911	NetworkDefault	500	100	100						
912	NetworkDefault	500	100	100						
920	NetworkDefault	500	100	100		18.00				
921	NetworkDefault	100	100	100						
930	NetworkDefault	100	100	100		18.00				
931	NetworkDefault	100	100	100						
990	NetworkDefault	100	100	100		0.00				
991	NetworkDefault	100	100	100		0.00				
1000	NetworkDefault	0	20	100		0.00				
1001	NetworkDefault	0	20	100		0.00				
1002	NetworkDefault	0	20	100		0.00				
1010	NetworkDefault	500	100	100		9.00	✓	7.00	1000.00	
1011	NetworkDefault	100	100	100					0.00	
1020	NetworkDefault	500	100	100		9.00	✓	7.00	1000.00	
1022	NetworkDefault	500	100	100					0.00	
1023	NetworkDefault	100	100	100					0.00	
1030	NetworkDefault	500	100	100		9.50	✓	8.00	1000.00	
1031	NetworkDefault	500	100	100					0.00	
1040	NetworkDefault	500	100	100		10.00	✓	8.00	1000.00	
1090	NetworkDefault	100	100	100		0.00				
1091	NetworkDefault	100	100	100		0.00				

Modelling - Normal traffic - Advanced

Link	Dispersion type for Normal Traffic	Initial queue (PCU)	Auto cycle time	Cycle time
700	NetworkDefault	0.00	✓	70
701	NetworkDefault	0.00	✓	70
702	NetworkDefault	0.00	✓	70
703	NetworkDefault	0.00	✓	70
704	NetworkDefault	0.00	✓	70
705	NetworkDefault	0.00	✓	70
710	NetworkDefault	0.00	✓	70
711	NetworkDefault			
712	NetworkDefault			
720	NetworkDefault	0.00	✓	70
721	NetworkDefault			
730	NetworkDefault	0.00	✓	70
731	NetworkDefault			
732	NetworkDefault			
790	NetworkDefault	0.00	✓	70
791	NetworkDefault	0.00	✓	70
792	NetworkDefault	0.00	✓	70
800	NetworkDefault	0.00	✓	70
801	NetworkDefault	0.00	✓	70
802	NetworkDefault	0.00	✓	70
803	NetworkDefault	0.00	✓	70
810	NetworkDefault	0.00	✓	70
811	NetworkDefault			
812	NetworkDefault			
820	NetworkDefault	0.00	✓	70
821	NetworkDefault			
822	NetworkDefault			
890	NetworkDefault	0.00	✓	70
891	NetworkDefault	0.00	✓	70
900	NetworkDefault	0.00	✓	70
901	NetworkDefault	0.00	✓	70
902	NetworkDefault	0.00	✓	70
903	NetworkDefault	0.00	✓	70
910	NetworkDefault	0.00	✓	70
911	NetworkDefault			
912	NetworkDefault			
920	NetworkDefault	0.00	✓	70
921	NetworkDefault			
930	NetworkDefault	0.00	✓	70
931	NetworkDefault			
990	NetworkDefault	0.00	✓	70
991	NetworkDefault	0.00	✓	70
1000	NetworkDefault	0.00	✓	70
1001	NetworkDefault	0.00	✓	70
1002	NetworkDefault	0.00	✓	70
1010	NetworkDefault	0.00	✓	70
1011	NetworkDefault			
1020	NetworkDefault	0.00	✓	70
1022	NetworkDefault			
1023	NetworkDefault			
1030	NetworkDefault	0.00	✓	70
1031	NetworkDefault			
1040	NetworkDefault	0.00	✓	70
1090	NetworkDefault	0.00	✓	70
1091	NetworkDefault	0.00	✓	70

Flows

Link	Total flow (PCU/hr)	PCU Factor
700	285	1.00
701	285	1.00
702	305	1.00
703	280	1.00
704	570	1.00
705	585	1.00
710	0	1.00
711	12	1.00
712	446	1.00
720	350	1.00
721	235	1.00
730	613	1.00
731	237	1.00
732	0	1.00
790	743	1.00
791	870	1.00
792	541	1.00
800	998	1.00
801	1052	1.00
802	446	1.00
803	1498	1.00
810	0	1.00
811	2	1.00
812	484	1.00
820	280	1.00
821	8	1.00
822	121	1.00
890	1484	1.00
891	264	1.00
900	303	1.00
901	446	1.00
902	472	1.00
903	749	1.00
910	259	1.00
911	167	1.00
912	8	1.00
920	650	1.00
921	111	1.00
930	446	1.00
931	2	1.00
990	737	1.00
991	111	1.00
1000	428	1.00
1001	350	1.00
1002	613	1.00
1010	0	1.00
1011	650	1.00
1020	0	1.00
1022	434	1.00
1023	2	1.00
1030	446	1.00
1031	12	1.00
1040	472	1.00
1090	1078	1.00
1091	436	1.00

Flows - Advanced

Link	Detectors
(ALL)	

Signals

Link	Controller stream	Phase	Second phase enabled
700	7	C	
701	7	C	
702	7	C	
703	7	C	
710	7	D	
711			
712			
720	7	D	
721			
730	7	D	
731			
732			
800	8	A	
801	8	A	
802	8	A	
810	8	B	
811			
812			
820	8	B	
821			
822			
900	9	A	
901	9	A	
902	9	A	
910	9	B	
911			
912			
920	9	B	
921			
930	9	B	
931			
1000	10	A	
1001	10	A	
1002	10	A	
1010	10	B	
1011			
1020	10	B	
1022			
1023			
1030	10	B	
1031			
1040	10	B	

Entry Sources

Link	Cruise time (seconds)	Cruise speed (kph)
704	19.20	30.00
705	19.20	30.00
800	24.83	29.00
803	19.20	30.00
902	24.91	28.90
903	12.00	30.00
1000	48.00	15.00
1001	48.00	15.00
1002	24.00	30.00

Sources

Link	Source	Source type	Source link	Destination link	Cruise time (seconds)	Cruise speed (kph)	Total flow (PCU/hr)
700	1	Link	704	700	4.50	32.00	285
701	1	Link	704	701	4.50	32.00	285
702	1	Link	705	702	4.50	32.00	305
703	1	Link	705	703	4.50	32.00	280
710	1	Link	1000	710	12.36	32.00	0
711	1	Link	1031	711	12.36	32.00	12
712	1	Link	1030	712	12.36	32.00	446
720	1	Link	1001	720	12.04	32.00	350
721	1	Link	1040	721	12.04	32.00	235
730	1	Link	1002	730	11.73	32.00	613
731	1	Link	1040	731	11.73	32.00	237
732	1	Link	1002	732	11.73	32.00	0
790	1	Link	710	790	9.24	32.00	0
791	1	Link	720	791	9.24	32.00	350
792	1	Link	731	792	9.32	32.00	235
801	1	Link	803	801	4.50	32.00	1052
802	1	Link	803	802	4.50	32.00	446
810	1	Link	702	810	9.34	32.00	0
811	1	Link	731	811	9.35	32.00	2
812	1	Link	730	812	9.35	32.00	484
820	1	Link	703	820	9.03	32.00	280
821	1	Link	730	821	9.03	32.00	8
822	1	Link	730	822	9.03	32.00	121
890	1	Link	810	890	22.50	32.00	0
891	1	Link	801	891	22.50	32.00	143
900	1	Link	903	900	11.25	32.00	303
901	1	Link	903	901	11.25	32.00	446
910	1	Link	801	910	18.33	32.00	259
911	1	Link	820	911	18.33	32.00	167
912	1	Link	821	912	18.33	32.00	8
920	1	Link	801	920	17.86	32.00	650
921	1	Link	820	921	17.86	32.00	111
930	1	Link	802	930	17.86	32.00	446
931	1	Link	820	931	17.86	32.00	2
990	1	Link	910	990	22.50	32.00	259
991	1	Link	921	991	22.50	32.00	111
1010	1	Link	901	1010	10.76	32.00	0
1011	1	Link	920	1011	10.76	32.00	650
1020	1	Link	901	1020	10.76	32.00	0
1022	1	Link	930	1022	10.76	32.00	434
1023	1	Link	931	1023	10.76	32.00	2
1030	1	Link	901	1030	10.21	32.00	446
1031	1	Link	930	1031	10.21	32.00	12
1040	1	Link	902	1040	9.56	32.00	472

1090	1	Link	1000	1090	7.12	32.00	428
1091	1	Link	1020	1091	7.10	32.00	0
790	2	Link	711	790	9.24	32.00	12
791	2	Link	721	791	9.24	32.00	235
792	2	Link	732	792	9.32	32.00	0
890	2	Link	800	890	22.50	32.00	998
891	2	Link	822	891	22.50	32.00	121
990	2	Link	911	990	22.50	32.00	167
991	2	Link	920	991	22.50	32.00	0
1090	2	Link	1010	1090	7.12	32.00	0
1091	2	Link	1022	1091	7.10	32.00	434
790	3	Link	712	790	9.24	32.00	446
791	3	Link	701	791	9.24	32.00	285
792	3	Link	702	792	9.32	32.00	305
890	3	Link	812	890	22.50	32.00	484
990	3	Link	912	990	22.50	32.00	8
1090	3	Link	1011	1090	7.12	32.00	650
1091	3	Link	1023	1091	7.10	32.00	2
790	4	Link	700	790	9.24	32.00	285
890	4	Link	811	890	22.50	32.00	2
990	4	Link	900	990	22.50	32.00	303

Local OD Matrix - Local Matrix: 1

Local Matrix Options

OD Matrix	Name	Use for point to point table	Auto calculate	Allocation mode	Allow paths past exit locations	Allow looped paths on arms	Allow looped paths on traffic nodes	Copy flows	Matrix to copy flows from	Limit paths by length	Path length limit multiplier	Limit paths by number	Path number limit	Limit paths by flow	Low path flow threshold
1	(untitled)	✓	✓	Lane Balancing			✓			✓	1.25				

Normal Input Flows (PCU/hr)

	To				
From		A	B	C	D
	A	2	875	0	278
	B	1084	12	1141	259
	C	0	916	2	303
	D	428	350	605	8

Bus Input Flows not shown as they are blank.

Tram Input Flows not shown as they are blank.

Pedestrian Input Flows not shown as they are blank.

Locations

OD Matrix	Location	Name	Entries	Exits	Colour
1	A	(untitled)	705, 704	1090, 1091	#0000FF
	B	(untitled)	800, 803	792, 791, 790	#FF0000
	C	(untitled)	902, 903	891, 890	#00FF00
	D	(untitled)	1000, 1001, 1002	990, 991	#FFFF00

Normal Paths and Flows

OD Matrix	Path	Description	From location	To location	Path items	Allocation type	Normal Calculated Flow (PCU/hr)
1	15		B	C	800, 890	Normal	998
	17		D	B	1000, 710, 790	Normal	0
	18		D	A	1000, 1090	Normal	428
	20		D	B	1001, 720, 791	Normal	350
	21		A	C	705, 702, 810, 890	Normal	0
	22		A	B	705, 702, 792	Normal	305
	23		A	D	705, 703, 820, 911, 990	Percentage	167
	25		D	D	1002, 730, 821, 912, 990	Normal	8
	26		D	B	1002, 732, 792	Normal	0
	27		A	B	704, 701, 791	Normal	285
	28		A	B	704, 700, 790	Normal	285
	29		D	C	1002, 730, 822, 891	Percentage	121
	51		C	B	902, 1040, 721, 791	Normal	235
	52		C	C	902, 1040, 731, 811, 890	Normal	2
	53		C	B	902, 1040, 731, 792	Normal	235
	58		D	C	1002, 730, 812, 890	Percentage	484
	68		B	B	803, 802, 930, 1031, 711, 790	Normal	12
	69		B	A	803, 802, 930, 1022, 1091	Percentage	434
	70		B	D	803, 801, 920, 991	Percentage	0
	71		B	A	803, 801, 920, 1011, 1090	Percentage	650
	73		A	D	705, 703, 820, 921, 991	Percentage	111
	74		A	A	705, 703, 820, 931, 1023, 1091	Normal	2
	75		C	A	903, 901, 1020, 1091	Normal	0
	76		C	B	903, 901, 1030, 712, 790	Normal	446
	77		C	A	903, 901, 1010, 1090	Normal	0
	78		C	D	903, 900, 990	Normal	303
	79		B	D	803, 801, 910, 990	Percentage	259
	80		B	C	803, 801, 891	Normal	143

Signal Timings

Network Default: 70s cycle time; 70 steps

Controller Stream 7

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)	Minimum possible cycle time (s)
7			1	NetworkDefault	70	26

Controller Stream 7 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
7	Microsense Systems						Absolute

Controller Stream 7 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
7	✓	✓	Offsets Only		

Phases

Controller Stream	Phase	Name	Street minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type
7	(ALL)	(untitled)	7	60	0	0	Unknown

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)	Run every N cycles	Probability of running (%)
7	1	C	1	0	0
	2	D	1	0	0

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends	Minimum possible cycle time (s)	Exclude from analysis
7	1	(untitled)	Single	1, 2	50, 31	26	

Intergreen Matrix for Controller Stream 7

From	To		
	C	D	
	6		
	D	6	

Banned Stage transitions for Controller Stream 7

From	To	
	1	2
	2	

Link Results

Link Results: Vehicle summary

Time Segment	Link	Major link	Degree of saturation (%)	Practical reserve capacity (%)	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual green (s (per cycle))	Mean Delay per Veh (s)	Mean max queue (PCU)	Utilised storage (%)	Weighted cost of delay (£ per hr)	Weighted cost of stops (£ per hr)	Performance Index (£ per hr)
07:45-08:45	700		73	24	285	1957	13	42.92	6.24	92.13	9.66	0.00	9.66
	701		73	24	285	1954	13	42.80	6.45	87.82	9.62	0.00	9.62
	702		73	24	305	2097	13	41.63	6.82	86.45	10.02	0.00	10.02
	703		67	35	280	2097	13	38.88	5.81	85.90	8.58	0.00	8.58
	704		29	209	570	1954	70	1.30	0.21	0.70	2.92	0.00	2.92
	705		28	223	585	2097	70	1.19	0.19	0.61	2.75	0.00	2.75
	710		33	170	0	2088	45	0.00	0.86	6.91	0.00	0.00	0.00
	711	710			12			8.34			0.39	0.41	0.81
	712	710			446			3.16			5.55	3.66	9.21
	720		40	126	350	2231	45	3.41	5.43	43.45	4.71	12.40	17.10
	721	720			235			3.16			2.93	1.41	4.34
	730		56	60	613	2299	45	4.91	11.76	90.47	11.88	30.84	61.72
	731	730			237			3.59			3.36	1.38	4.73
	732	730			0			0.00			0.00	0.00	0.00
	790		37	143	743	2010	70	1.42	0.29	1.89	4.16	0.00	4.16
	791		41	120	870	2124	70	1.43	0.35	2.11	4.92	0.00	4.92
	792		26	252	540	2115	70	1.14	0.17	1.04	2.43	0.00	2.43
	800		85	6	998	2001	40	22.01	18.58	49.39	17.33	0.00	17.33
	801		85	6	1052	2110	40	21.51	19.45	245.10	0.00	2.73	2.73
	802		36	150	446	2110	40	10.05	4.37	64.51	0.00	0.64	0.64
	803		71	27	1498	2110	70	2.93	1.22	3.84	17.31	0.00	17.31
	810		82	10	0	2182	18	0.00	5.35	76.45	0.00	0.00	40.42
	811	810			2			53.11			0.42	0.17	0.59
	812	810			484			21.16			40.39	14.79	55.18
	820		66	37	280	2295	18	26.28	7.99	88.78	29.00	22.25	620.60
	821	820			8			15.18			0.48	0.36	0.84
	822	820			121			15.18			7.24	1.10	8.34
	890		78	16	1484	1911	70	4.21	8.69	24.19	24.66	1.59	26.25
	891		13	596	264	2042	70	1.01	0.07	0.19	1.05	0.00	1.05
	900		39	129	303	2158	24	20.92	4.45	26.30	5.00	0.00	5.00
	901		58	56	446	2158	24	23.75	7.62	37.56	8.36	0.00	8.36
	902		58	56	472	2287	24	23.43	8.02	18.66	8.72	0.00	8.72
	903		35	159	749	2158	70	1.28	0.27	1.31	3.77	0.00	3.77
	910		43	107	259	1995	34	19.96	6.70	38.31	20.39	13.34	33.73
	911	910			167			8.23			5.41	9.93	15.34
	912	910			8			5.53			0.17	0.29	0.46
	920		70	29	650	2187	34	24.12	11.42	63.46	61.88	33.62	95.50
	921	920			111			17.12			7.50	1.62	9.12
	930		41	120	446	2187	34	13.68	4.27	23.71	24.04	3.10	27.14
	931	930			2			7.01			0.06	0.02	0.07
	990		35	161	737	2133	70	1.29	0.26	0.66	3.75	0.00	3.75
	991		5	1628	111	2133	70	0.89	0.03	0.07	0.39	0.00	0.39
	1000		64	41	428	2139	21	27.89	7.88	19.60	9.42	0.00	9.42
	1001		48	87	350	2317	21	24.14	5.91	13.56	6.67	0.00	6.67
	1002		84	7	613	2317	21	37.34	13.62	31.26	18.06	0.00	18.06
	1010		58	56	0	2071	37	0.00	7.26	80.63	0.00	0.00	49.61
	1011	1010			650			16.49			42.30	5.33	47.63
	1020		39	132	0	2071	37	0.00	5.18	57.55	0.00	0.00	0.00
	1022	1020			434			14.36			24.57	18.94	43.51
	1023	1020			2			9.03			0.07	0.01	0.08
	1030		38	140	446	2247	37	5.12	7.49	78.82	9.00	22.10	31.11
	1031	1030			12			12.33			0.58	0.51	1.10
	1040		39	133	472	2253	37	5.39	8.04	80.44	10.04	24.56	35.23
	1090		53	71	1078	2051	70	1.86	3.47	28.46	7.90	0.47	8.37
	1091		20	347	436	2164	70	1.04	0.13	0.98	1.79	0.00	1.79

Link Results: Flows and signals

Time Segment	Link	Major link	Calculated flow entering (PCU/hr)	Calculated flow out (PCU/hr)	Flow discrepancy (PCU/hr)	Adjusted flow warning	Calculated sat flow (PCU/hr)	Calculated capacity (PCU/hr)	Degree of saturation (%)	DOS Threshold exceeded	Practical reserve capacity (%)	Mean modulus of error	Actual green (s (per cycle))	Effective green (s (per cycle))
07:45-08:45	700		285	285	0		1957	391	73		24	0.00	13	14
	701		285	285	0		1954	391	73		24	0.00	13	14
	702		305	305	0		2097	419	73		24	0.00	13	14
	703		280	280	0		2097	419	67		35	0.00	13	14
	704		570	570	0		1954	1954	29		209	0.00	70	70
	705		585	585	0		2097	2097	28		223	0.00	70	70
	710		0	0	0		2088	1372	33		170	0.00	45	46
	711	710	12	12	0						170	1.13		
	712	710	446	446	0						170	1.23		
	720		350	350	0		2231	1466	40		126	1.26	45	46
	721	720	235	235	0						126	1.23		
	730		613	613	0		2299	1511	56		60	1.22	45	46
	731	730	237	237	0						60	1.24		
	732	730	0	0	0						60	0.00		
	790		743	743	0		2010	2010	37		143	0.79	70	70
	791		870	870	0		2124	2124	41		120	0.52	70	70
	792		540	540	0	✓	2115	2115	26		252	0.84	70	70
	800		998	998	0		2001	1172	85		6	0.00	40	41
	801		1052	1052	0		2110	1236	85		6	0.00	40	41
	802		446	446	0		2110	1236	36		150	0.00	40	41
	803		1498	1498	0		2110	2110	71		27	0.00	70	70
	810		0	0	0		2182	592	82		10	0.00	18	19
	811	810	2	2	0						10	1.16		
	812	810	484	484	0						10	1.23		
	820		280	280	0		2295	623	66		37	1.46	18	19
	821	820	8	8	0						37	1.24		
	822	820	121	121	0						37	1.24		
	890		1484	1484	0		1911	1911	78		16	0.22	70	70
	891		264	264	0		2042	2042	13		596	0.34	70	70
	900		303	303	0		2158	771	39		129	0.00	24	25
	901		446	446	0		2158	771	58		56	0.00	24	25
	902		472	472	0		2287	817	58		56	0.00	24	25
	903		749	749	0		2158	2158	35		159	0.00	70	70
	910		259	259	0		1995	998	43		107	0.70	34	35
	911	910	167	167	0						107	1.31		
	912	910	8	8	0						107	1.20		
	920		650	650	0		2187	1094	70		29	0.71	34	35
	921	920	111	111	0						29	1.31		
	930		446	446	0		2187	1094	41		120	0.69	34	35
	931	930	2	2	0						120	1.31		
	990		737	737	0		2133	2133	35		161	0.46	70	70
	991		111	111	0		2133	2133	5		1628	1.29	70	70
	1000		428	428	0		2139	672	64		41	0.00	21	22
	1001		350	350	0		2317	728	48		87	0.00	21	22
	1002		613	613	0		2317	728	84		7	0.00	21	22
	1010		0	0	0		2071	1124	58		56	0.00	37	38
	1011	1010	650	650	0						56	0.88		
	1020		0	0	0		2071	1124	39		132	0.00	37	38
	1022	1020	434	434	0						132	1.00		
	1023	1020	2	2	0						132	1.49		
	1030		446	446	0		2247	1220	38		140	1.20	37	38
	1031	1030	12	12	0						140	1.01		
	1040		472	472	0		2253	1223	39		133	1.20	37	38
	1090		1078	1078	0		2051	2051	53		71	0.63	70	70
	1091		436	436	0		2164	2164	20		347	1.17	70	70

Link Results: Stops and delays

Time Segment	Link	Major link	Mean Cruise Time per Veh (s)	Mean Delay per Veh (s)	Uniform delay (PCU-hr/hr)	Random plus oversat delay (PCU-hr/hr)	Unweighted cost of delay (£ per hr)	Weighted cost of delay (£ per hr)	Mean stops per Veh (%)	Uniform stops (Stops per hr)	Random stops (Stops per hr)	Unweighted cost of stops (£ per hr)	Weighted cost of stops (£ per hr)
07:45-08:45	700		4.50	42.92	2.09	1.31	48.29	9.66	111.00	253.02	63.58	4.52	0.00
	701		4.50	42.80	2.08	1.31	48.08	9.62	113.10	258.51	63.57	4.59	0.00
	702		4.50	41.63	2.22	1.31	50.12	10.02	111.61	277.01	63.61	4.86	0.00
	703		4.50	38.88	2.03	0.99	42.91	8.58	105.87	247.66	48.58	4.23	0.00
	704		19.20	1.30	0.00	0.21	2.92	2.92	0.00	0.00	0.00	0.00	0.00
	705		19.20	1.19	0.00	0.19	2.75	2.75	0.00	0.00	0.00	0.00	0.00
	710		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	711	710	12.36	8.34	0.02	0.01	0.39	0.39	48.26	5.13	0.67	0.08	0.41
	712	710	12.36	3.16	0.15	0.24	5.55	5.55	11.49	26.53	24.72	0.73	3.66
	720		12.04	3.41	0.13	0.20	4.71	4.71	49.66	163.67	10.13	2.48	12.40
	721	720	12.04	3.16	0.07	0.13	2.93	2.93	8.44	13.03	6.80	0.28	1.41
	730		11.73	4.91	0.37	0.46	11.88	11.88	70.53	408.74	23.58	6.17	30.84
	731	730	11.73	3.59	0.06	0.18	3.36	3.36	8.14	10.17	9.12	0.28	1.38
	732	730	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	790		9.24	1.42	0.00	0.29	4.16	4.16	0.00	0.00	0.00	0.00	0.00
	791		9.24	1.43	0.00	0.35	4.92	4.92	0.00	0.00	0.00	0.00	0.00
	792		9.32	1.14	0.00	0.17	2.43	2.43	0.00	0.00	0.00	0.00	0.00
	800		24.83	22.01	3.32	2.78	86.64	17.33	91.80	778.28	137.92	10.73	0.00
	801		4.50	21.51	3.50	2.78	89.28	0.00	90.76	816.71	138.40	13.63	2.73
	802		4.50	10.05	0.96	0.28	17.66	0.00	50.36	210.05	14.37	3.20	0.64
	803		19.20	2.93	0.00	1.22	17.31	17.31	0.00	0.00	0.00	0.00	0.00
	810		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	811	810	9.35	53.11	0.02	0.01	0.42	0.42	120.18	1.96	0.44	0.03	0.17
	812	810	9.35	21.16	0.66	2.19	40.39	40.39	42.85	101.19	106.19	2.96	14.79
	820		9.03	26.28	1.39	0.65	29.00	29.00	111.49	279.62	32.34	4.45	22.25
	821	820	9.03	15.18	0.02	0.02	0.48	0.48	63.78	4.18	0.92	0.07	0.36
	822	820	9.03	15.18	0.23	0.28	7.24	7.24	63.78	63.19	13.98	1.10	1.10
	890		22.50	4.21	0.01	1.72	24.66	24.66	7.52	24.31	87.34	1.59	1.59
	891		22.50	1.01	0.00	0.07	1.05	1.05	0.00	0.00	0.00	0.00	0.00
	900		11.25	20.92	1.44	0.32	25.01	5.00	75.42	212.19	16.42	3.26	0.00
	901		11.25	23.75	2.26	0.68	41.78	8.36	85.54	346.93	34.46	5.44	0.00
	902		24.91	23.43	2.39	0.68	43.62	8.72	85.34	368.39	34.42	4.69	0.00
	903		12.00	1.28	0.00	0.27	3.77	3.77	0.00	0.00	0.00	0.00	0.00
	910		18.33	19.96	1.21	0.23	20.39	20.39	72.20	175.35	11.66	2.67	13.34
	911	910	18.33	8.23	0.23	0.15	5.41	5.41	83.55	131.77	7.51	1.99	9.93
	912	910	18.33	5.53	0.01	0.01	0.17	0.17	50.74	3.70	0.36	0.06	0.29
	920		17.86	24.12	3.39	0.97	61.88	61.88	72.46	422.18	49.09	6.72	33.62
	921	920	17.86	17.12	0.36	0.17	7.50	7.50	101.91	104.86	8.39	1.62	1.62
	930		17.86	13.68	1.35	0.34	24.04	24.04	48.75	199.70	17.55	3.10	3.10
	931	930	17.86	7.01	0.00	0.00	0.06	0.06	69.17	1.30	0.08	0.02	0.02
	990		22.50	1.29	0.00	0.26	3.75	3.75	0.00	0.00	0.00	0.00	0.00
	991		22.50	0.89	0.00	0.03	0.39	0.39	0.00	0.00	0.00	0.00	0.00
	1000		48.00	27.89	2.45	0.87	47.09	9.42	93.72	357.55	43.59	1.26	0.00
	1001		48.00	24.14	1.89	0.46	33.33	6.67	85.84	277.09	23.34	0.94	0.00
	1002		24.00	37.34	3.81	2.55	90.30	18.06	110.33	552.05	124.27	8.48	0.00
	1010		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1011	1010	10.76	16.49	2.29	0.68	42.30	42.30	57.40	338.61	34.72	5.33	5.33
	1020		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1022	1020	10.76	14.36	1.42	0.31	24.57	24.57	61.24	249.51	16.03	3.79	18.94
	1023	1020	10.76	9.03	0.00	0.00	0.07	0.07	26.63	0.46	0.07	0.01	0.01
	1030		10.21	5.12	0.34	0.29	9.00	9.00	69.49	294.94	14.91	4.42	22.10
	1031	1030	10.21	12.33	0.03	0.01	0.58	0.58	59.79	6.77	0.40	0.10	0.51

	1040		9.56	5.39	0.39	0.31	10.04	10.04	72.95	328.34	16.01	4.91	24.56
	1090		7.12	1.86	0.00	0.55	7.90	7.90	3.06	4.67	28.29	0.47	0.47
	1091		7.10	1.04	0.00	0.13	1.79	1.79	0.00	0.00	0.00	0.00	0.00

Link Results: Queues and blocking

Time Segment	Link	Major link	Initial queue (PCU)	Mean max queue (PCU)	Max queue storage (PCU)	Utilised storage (%)	Average storage excess queue (PCU)	Average limit excess queue (PCU)	Excess queue penalty (£ per hr)	Mean end of green queue (PCU)	Mean end of red queue (PCU)	Wasted time starvation (s (per cycle))	Wasted time blocking back (s (per cycle))	Wasted time total (s (per cycle))	Estimated blocking
07:45-08:45	700		0.00	6.24	6.77	92.13	0.00	0.00	0.00	1.31	5.98	0.00	0.00	0.00	
	701		0.00	6.45	7.35	87.82	0.00	0.00	0.00	1.31	5.74	0.00	0.00	0.00	
	702		0.00	6.82	7.89	86.45	0.00	0.00	0.00	1.31	6.05	0.00	0.00	0.00	
	703		0.00	5.81	6.77	85.90	0.00	0.00	0.00	0.99	5.55	0.00	0.00	0.00	
	704		0.00	0.21	29.39	0.70	0.00	0.00	0.00			0.00	0.00	0.00	
	705		0.00	0.19	31.54	0.61	0.00	0.00	0.00			0.00	0.00	0.00	
	710		0.00	0.86	12.50	6.91	0.00	0.00	0.00	0.25	0.86	21.00	0.00	21.00	
	711	710							0.00						
	712	710							0.00						
	720		0.00	5.43	12.50	43.45	0.00	0.00	0.00	0.33	1.76	0.00	0.00	0.00	
	721	720							0.00						
	730		0.00	11.76	13.00	90.47	0.00	0.02	19.00	0.64	2.50	0.00	0.00	0.00	
	731	730							0.00						
	732	730							0.00						
	790		0.00	0.29	15.53	1.89	0.00	0.00	0.00			15.00	0.00	15.00	
	791		0.00	0.35	16.41	2.11	0.00	0.00	0.00			0.00	0.00	0.00	
	792		0.00	0.17	16.48	1.04	0.00	0.00	0.00			18.00	0.00	18.00	
	800		0.00	18.58	37.62	49.39	0.00	0.00	0.00	2.78	10.82	0.00	0.00	0.00	
	801		0.00	19.45	7.93	245.10	3.32	0.00	0.00	2.78	11.26	0.00	0.00	0.00	
	802		0.00	4.37	6.77	64.51	0.00	0.00	0.00	0.28	4.12	0.00	0.00	0.00	
	803		0.00	1.22	31.74	3.84	0.00	0.00	0.00			0.00	40.00	40.00	✓
	810		0.00	5.35	7.00	76.45	0.00	0.04	40.42	2.20	3.45	0.00	0.00	0.00	
	811	810							0.00						
	812	810							0.00						
	820		0.00	7.99	9.00	88.78	0.00	0.57	569.35	0.95	6.66	0.00	0.00	0.00	
	821	820							0.00						
	822	820							0.00						
	890		0.00	8.69	35.93	24.19	0.00	0.00	0.00			0.00	0.00	0.00	
	891		0.00	0.07	38.39	0.19	0.00	0.00	0.00			0.00	0.00	0.00	
	900		0.00	4.45	16.92	26.30	0.00	0.00	0.00	0.32	4.28	0.00	0.00	0.00	
	901		0.00	7.62	20.29	37.56	0.00	0.00	0.00	0.68	6.26	0.00	0.00	0.00	
	902		0.00	8.02	43.00	18.66	0.00	0.00	0.00	0.68	6.58	0.00	0.00	0.00	
	903		0.00	0.27	20.29	1.31	0.00	0.00	0.00			0.00	0.00	0.00	
	910		0.00	6.70	17.50	38.31	0.00	0.00	0.00	0.38	4.42	0.00	0.00	0.00	
	911	910							0.00						
	912	910							0.00						
	920		0.00	11.42	18.00	63.46	0.00	0.00	0.00	1.14	9.84	1.00	0.00	1.00	
	921	920							0.00						
	930		0.00	4.27	18.00	23.71	0.00	0.00	0.00	0.35	4.19	11.00	0.00	11.00	
	931	930							0.00						
	990		0.00	0.26	40.10	0.66	0.00	0.00	0.00			0.00	0.00	0.00	
	991		0.00	0.03	40.10	0.07	0.00	0.00	0.00			48.00	0.00	48.00	
	1000		0.00	7.88	40.22	19.60	0.00	0.00	0.00	0.87	6.58	0.00	0.00	0.00	
	1001		0.00	5.91	43.56	13.56	0.00	0.00	0.00	0.46	5.13	0.00	0.00	0.00	
	1002		0.00	13.62	43.56	31.26	0.00	0.00	0.00	2.55	10.72	0.00	0.00	0.00	
	1010		0.00	7.26	9.00	80.63	0.00	0.05	49.61	0.72	7.20	13.00	0.00	13.00	
	1011	1010							0.00						
	1020		0.00	5.18	9.00	57.55	0.00	0.00	0.00	0.32	5.14	16.00	0.00	16.00	
	1022	1020							0.00						

	1023	1020						0.00							
	1030		0.00	7.49	9.50	78.82	0.00	0.00	0.00	0.30	2.60	8.00	0.00	8.00	
	1031	1030						0.00							
	1040		0.00	8.04	10.00	80.44	0.00	0.00	0.62	0.31	2.68	13.00	0.00	13.00	
	1090		0.00	3.47	12.20	28.46	0.00	0.00	0.00			6.00	0.00	6.00	
	1091		0.00	0.13	12.83	0.98	0.00	0.00	0.00			35.00	0.00	35.00	

Link Results: Journey times

Time Segment	Link	Major link	Distance travelled (PCU-km/hr)	Time spent (PCU-hr/hr)	Mean journey speed (kph)	JourneyTime (s)
07:45-08:45	700		11.41	3.76	3.04	47.42
	701		11.39	3.74	3.04	47.30
	702		12.21	3.91	3.12	46.13
	703		11.19	3.37	3.32	43.38
	704		91.20	3.25	28.10	20.50
	705		93.60	3.31	28.25	20.39
	710		0.00	0.00	0.00	0.00
	711	710	1.32	0.07	19.11	20.70
	712	710	49.00	1.92	25.49	15.52
	720		37.45	1.50	24.94	15.45
	721	720	25.15	0.99	25.35	15.20
	730		63.94	2.83	22.56	16.65
	731	730	24.72	1.01	24.50	15.32
	732	730	0.00	0.00	0.00	0.00
	790		61.06	2.20	27.74	10.66
	791		71.47	2.58	27.70	10.68
	792		44.77	1.57	28.51	10.47
	800		199.60	12.98	15.37	46.84
	801		42.10	7.60	5.54	26.01
	802		17.82	1.80	9.90	14.55
	803		239.68	9.21	26.03	22.13
	810		0.00	0.00	0.00	0.00
	811	810	0.17	0.03	4.79	62.46
	812	810	40.24	4.10	9.81	30.51
	820		22.45	2.74	8.18	35.30
	821	820	0.64	0.05	11.93	24.20
	822	820	9.71	0.81	11.93	24.20
	890		296.80	11.01	26.95	26.71
	891		52.80	1.72	30.62	23.51
	900		30.31	2.71	11.19	32.17
	901		44.59	4.34	10.28	35.00
	902		94.40	6.34	14.89	48.35
	903		74.90	2.76	27.11	13.28
	910		42.19	2.75	15.32	38.29
	911	910	27.15	1.23	22.09	26.55
	912	910	1.30	0.05	24.58	23.86
	920		103.26	7.58	13.61	41.98
	921	920	17.64	1.08	16.34	34.98
	930		70.74	3.90	18.12	31.54
	931	930	0.32	0.01	22.98	24.87
	990		147.36	4.87	30.27	23.79
	991		22.22	0.72	30.78	23.39
	1000		85.60	9.02	9.49	75.89
	1001		70.00	7.01	9.98	72.14
	1002		122.60	10.45	11.74	61.34
	1010		0.00	0.00	0.00	0.00
	1011	1010	62.23	4.92	12.64	27.25
	1020		0.00	0.00	0.00	0.00
	1022	1020	41.49	3.03	13.71	25.13
	1023	1020	0.19	0.01	17.40	19.79
	1030		40.45	1.90	21.31	15.33
	1031	1030	1.09	0.08	14.49	22.54
	1040		40.12	1.96	20.46	14.96
	1090		68.24	2.69	25.38	8.98
	1091		27.47	0.98	27.90	8.14

Link Results: Advanced

Time Segment	Link	Major link	Degree of saturation penalty (£ per hr)	Ped gap accepting penalty (£ per hr)	Warmed up	Mean Max Queue EoTS (PCU)	Mean End of Green Queue EoTS (PCU)	Mean End of Red Queue EoTS (PCU)	PCU Factor	Cost of traffic penalties (£ per hr)	Unweighted performance index (£ per hr)	Performance Index (£ per hr)
07:45-08:45	700		0.00	0.00	✓	6.25	1.33	5.99	1.00	0.00	52.81	9.66
	701		0.00	0.00	✓	6.47	1.33	5.76	1.00	0.00	52.67	9.62
	702		0.00	0.00	✓	6.83	1.32	6.07	1.00	0.00	54.98	10.02
	703		0.00	0.00	✓	5.82	1.00	5.56	1.00	0.00	47.13	8.58
	704		0.00	0.00	✓	0.21			1.00	0.00	2.92	2.92
	705		0.00	0.00	✓	0.19			1.00	0.00	2.75	2.75
	710		0.00	0.00	✓	0.86	0.25	0.86	1.00	0.00	0.00	0.00
	711	710	0.00	0.00					1.00	0.00	0.48	0.81
	712	710	0.00	0.00					1.00	0.00	6.28	9.21
	720		0.00	0.00	✓	5.43	0.33	1.76	1.00	0.00	7.19	17.10
	721	720	0.00	0.00					1.00	0.00	3.21	4.34
	730		0.00	0.00	✓	11.76	0.64	2.50	1.00	19.00	18.05	61.72
	731	730	0.00	0.00					1.00	0.00	3.63	4.73
	732	730	0.00	0.00					1.00	0.00	0.00	0.00
	790		0.00	0.00	✓	0.29			1.00	0.00	4.16	4.16
	791		0.00	0.00	✓	0.35			1.00	0.00	4.92	4.92
	792		0.00	0.00	✓	0.17			1.00	0.00	2.43	2.43
	800		0.00	0.00	✓	18.62	2.82	10.86	1.00	0.00	97.37	17.33
	801		0.00	0.00	✓	19.49	2.82	11.30	1.00	0.00	102.91	2.73
	802		0.00	0.00	✓	4.37	0.28	4.12	1.00	0.00	20.86	0.64
	803		0.00	0.00	✓	1.22			1.00	0.00	17.31	17.31
	810		0.00	0.00	✓	5.39	2.24	3.49	1.00	40.42	0.00	40.42
	811	810	0.00	0.00					1.00	0.00	0.45	0.59
	812	810	0.00	0.00					1.00	0.00	43.35	55.18
	820		0.00	0.00	✓	7.99	0.95	6.66	1.00	569.35	33.45	620.60
	821	820	0.00	0.00					1.00	0.00	0.55	0.84
	822	820	0.00	0.00					1.00	0.00	8.34	8.34
	890		0.00	0.00	✓	8.70			1.00	0.00	26.25	26.25
	891		0.00	0.00	✓	0.07			1.00	0.00	1.05	1.05
	900		0.00	0.00	✓	4.45	0.32	4.28	1.00	0.00	28.27	5.00
	901		0.00	0.00	✓	7.62	0.68	6.26	1.00	0.00	47.22	8.36
	902		0.00	0.00	✓	8.03	0.68	6.58	1.00	0.00	48.31	8.72
	903		0.00	0.00	✓	0.27			1.00	0.00	3.77	3.77
	910		0.00	0.00	✓	6.70	0.38	4.42	1.00	0.00	23.06	33.73
	911	910	0.00	0.00					1.00	0.00	7.40	15.34
	912	910	0.00	0.00					1.00	0.00	0.23	0.46
	920		0.00	0.00	✓	11.43	1.14	9.85	1.00	0.00	68.61	95.50
	921	920	0.00	0.00					1.00	0.00	9.12	9.12
	930		0.00	0.00	✓	4.27	0.35	4.19	1.00	0.00	27.14	27.14
	931	930	0.00	0.00					1.00	0.00	0.07	0.07
	990		0.00	0.00	✓	0.26			1.00	0.00	3.75	3.75
	991		0.00	0.00	✓	0.03			1.00	0.00	0.39	0.39
	1000		0.00	0.00	✓	7.89	0.87	6.58	1.00	0.00	48.34	9.42
	1001		0.00	0.00	✓	5.91	0.46	5.13	1.00	0.00	34.27	6.67
	1002		0.00	0.00	✓	13.67	2.60	10.78	1.00	0.00	98.78	18.06
	1010		0.00	0.00	✓	7.26	0.72	7.20	1.00	49.61	0.00	49.61
	1011	1010	0.00	0.00					1.00	0.00	47.63	47.63
	1020		0.00	0.00	✓	5.18	0.32	5.14	1.00	0.00	0.00	0.00
	1022	1020	0.00	0.00					1.00	0.00	28.36	43.51
	1023	1020	0.00	0.00					1.00	0.00	0.08	0.08
	1030		0.00	0.00	✓	7.49	0.30	2.60	1.00	0.00	13.42	31.11
	1031	1030	0.00	0.00					1.00	0.00	0.69	1.10
	1040		0.00	0.00	✓	8.04	0.31	2.68	1.00	0.62	14.95	35.23

	1090		0.00	0.00	✓	3.47			1.00	0.00	8.37	8.37
	1091		0.00	0.00	✓	0.13			1.00	0.00	1.79	1.79

Collections

Point to Point Journey Time

Average Journey Time (s) for Local Matrix: 1

	To				
From		A	B	C	D
	A	151.9	78.0	0.0	152.6
	B	116.4	122.1	73.3	110.2
	C	0.0	89.5	167.8	69.2
	D	84.9	98.3	133.3	149.8

Path Journey Time

Path	From Location	To Location	Normal Calculated Flow (PCU/hr)	Normal journey time (s)	Normal journey dist (m)	Bus journeydist (m)	Tram journey dist (m)	Pedestrian journey dist (m)	Calculated Total Flow (PCU/hr)	Avg journey time (s)	Avg journey dist (m)
15	B	C	998	73.55	400.00	400.00	400.00	400.00	998	73.55	400.00
17	D	B	0	86.56	392.06	392.06	392.06	392.06	0	0.00	1568.24
18	D	A	428	84.87	263.28	263.28	263.28	263.28	428	84.87	263.28
20	D	B	350	98.27	389.18	389.18	389.18	389.18	350	98.27	389.18
21	A	C	0	93.24	483.00	483.00	483.00	483.00	0	0.00	1932.00
22	A	B	305	76.99	282.87	282.87	282.87	282.87	305	76.99	282.87
23	A	D	167	149.41	643.13	643.13	643.13	643.13	167	149.41	643.13
25	D	D	8	149.84	747.44	747.44	747.44	747.44	8	149.84	747.44
26	D	B	0	71.81	387.18	387.18	387.18	387.18	0	0.00	1548.72
27	A	B	285	78.48	282.17	282.17	282.17	282.17	285	78.48	282.17
28	A	B	285	78.59	282.17	282.17	282.17	282.17	285	78.59	282.17
29	D	C	121	125.71	584.54	584.54	584.54	584.54	121	125.71	584.54
51	C	B	235	89.18	474.19	474.19	474.19	474.19	235	89.18	474.19
52	C	C	2	167.80	672.46	672.46	672.46	672.46	2	167.80	672.46
53	C	B	235	89.09	472.19	472.19	472.19	472.19	235	89.09	472.19
58	D	C	484	135.21	587.45	587.45	587.45	587.45	484	135.21	587.45
68	B	B	12	122.12	641.55	641.55	641.55	641.55	12	122.12	641.55
69	B	A	434	101.48	517.51	517.51	517.51	517.51	434	101.48	517.51
70	B	D	0	113.51	558.76	558.76	558.76	558.76	0	0.00	2235.04
71	B	A	650	126.35	517.72	517.72	517.72	517.72	650	126.35	517.72
73	A	D	111	157.44	638.99	638.99	638.99	638.99	111	157.44	638.99
74	A	A	2	151.87	597.74	597.74	597.74	597.74	2	151.87	597.74
75	C	A	0	56.42	358.75	358.75	358.75	358.75	0	0.00	1435.00
76	C	B	446	89.79	482.79	482.79	482.79	482.79	446	89.79	482.79
77	C	A	0	57.26	358.96	358.96	358.96	358.96	0	0.00	1435.84
78	C	D	303	69.23	400.00	400.00	400.00	400.00	303	69.23	400.00
79	B	D	259	110.21	562.90	562.90	562.90	562.90	259	110.21	562.90
80	B	C	143	71.65	400.00	400.00	400.00	400.00	143	71.65	400.00

Final Prediction Table

Link Results

	SIGNALS	FLows	PERFORMANCE	PER PCU	QUEUES
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Link	Name	Major link	Traffic node	Controller stream	Phase	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual green (s (per cycle))	Wasted time total (s (per cycle))	Degree of saturation (%)	Practical reserve capacity (%)	JourneyTime (s)	Mean Delay per Veh (s)	Mean stops per Veh (%)	Mean max queue (PCU)	Mean end of red queue (PCU)
700			7	7	C	285	1957	13	0.00	73	24	47.42	42.92	111.00	6.24	5.98
701			7	7	C	285	1954	13	0.00	73	24	47.30	42.80	113.10	6.45	5.74
702			7	7	C	305	2097	13	0.00	73	24	46.13	41.63	111.61	6.82	6.05
703			7	7	C	280	2097	13	0.00	67	35	43.38	38.88	105.87	5.81	5.55
704			7			570	1954	70	0.00	29	209	20.50	1.30	0.00	0.21	
705			7			585	2097	70	0.00	28	223	20.39	1.19	0.00	0.19	
710		(710)	7	7	D	0	2088	45	21.00	33	170	0.00	0.00	0.00	0.86	0.86
711		710				12						20.70	8.34	48.26		
712		710				446						15.52	3.16	11.49		
720		(720)	7	7	D	350	2231	45	0.00	40	126	15.45	3.41	49.66	5.43	1.76
721		720				235						15.20	3.16	8.44		
730		(730)	7	7	D	613	2299	45	0.00	56	60	16.65	4.91	70.53	11.76	2.50
731		730				237						15.32	3.59	8.14		
732		730				0						0.00	0.00	0.00		
790			7			743	2010	70	15.00	37	143	10.66	1.42	0.00	0.29	
791			7			870	2124	70	0.00	41	120	10.68	1.43	0.00	0.35	
792			7			540	2115	70	18.00	26	252	10.47	1.14	0.00	0.17	
800			8	8	A	998	2001	40	0.00	85	6	46.84	22.01	91.80	18.58	10.82
801			8	8	A	1052 <	2110	40	0.00	85	6	26.01	21.51	90.76	19.45 +	11.26
802			8	8	A	446	2110	40	0.00	36	150	14.55	10.05	50.36	4.37	4.12
803			8			1498	2110	70	40.00	71	27	22.13	2.93	0.00	1.22	
810		(810)	8	8	B	0	2182	18	0.00	82	10	0.00	0.00	0.00	5.35	3.45
811		810				2						62.46	53.11	120.18		
812		810				484						30.51	21.16	42.85		
820		(820)	8	8	B	280	2295	18	0.00	66	37	35.30	26.28	111.49	7.99	6.66
821		820				8						24.20	15.18	63.78		
822		820				121						24.20	15.18	63.78		
890			8			1484	1911	70	0.00	78	16	26.71	4.21	7.52	8.69	
891			8			264	2042	70	0.00	13	596	23.51	1.01	0.00	0.07	
900			9	9	A	303	2158	24	0.00	39	129	32.17	20.92	75.42	4.45	4.28
901			9	9	A	446	2158	24	0.00	58	56	35.00	23.75	85.54	7.62	6.26
902			9	9	A	472	2287	24	0.00	58	56	48.35	23.43	85.34	8.02	6.58
903			9			749	2158	70	0.00	35	159	13.28	1.28	0.00	0.27	
910		(910)	9	9	B	259	1995	34	0.00	43	107	38.29	19.96	72.20	6.70	4.42
911		910				167						26.55	8.23	83.55		
912		910				8						23.86	5.53	50.74		
920		(920)	9	9	B	650	2187	34	1.00	70	29	41.98	24.12	72.46	11.42	9.84
921	(untitled)	920				111						34.98	17.12	101.91		
930	(untitled)	(930)	9	9	B	446	2187	34	11.00	41	120	31.54	13.68	48.75	4.27	4.19
931		930				2						24.87	7.01	69.17		
990			9			737	2133	70	0.00	35	161	23.79	1.29	0.00	0.26	
991	(untitled)		9			111	2133	70	48.00	5	1628	23.39	0.89	0.00	0.03	
1000			10	10	A	428	2139	21	0.00	64	41	75.89	27.89	93.72	7.88	6.58
1001			10	10	A	350	2317	21	0.00	48	87	72.14	24.14	85.84	5.91	5.13
1002			10	10	A	613	2317	21	0.00	84	7	61.34	37.34	110.33	13.62	10.72
1010	(untitled)	(1010)	10	10	B	0	2071	37	13.00	58	56	0.00	0.00	0.00	7.26	7.20
1011	(untitled)	1010				650						27.25	16.49	57.40		
1020		(1020)	10	10	B	0	2071	37	16.00	39	132	0.00	0.00	0.00	5.18	5.14
1022		1020				434						25.13	14.36	61.24		
1023	(untitled)	1020				2						19.79	9.03	26.63		
1030		(1030)	10	10	B	446	2247	37	8.00	38	140	15.33	5.12	69.49	7.49	2.60
1031		1030				12						22.54	12.33	59.79		
1040			10	10	B	472	2253	37	13.00	39	133	14.96	5.39	72.95	8.04	2.68
1090			10			1078	2051	70	6.00	53	71	8.98	1.86	3.06	3.47	

1091			10			436	2164	70	35.00	20	347	8.14	1.04	0.00	0.13
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Network Results

	Distance travelled (PCU-km/hr)	Time spent (PCU-hr/hr)	Mean journey speed (kph)	Uniform delay (PCU-hr/hr)	Random plus oversat delay (PCU-hr/hr)	Weighted cost of delay (£ per hr)	Weighted cost of stops (£ per hr)	Excess queue penalty (£ per hr)	Performance Index (£ per hr)
Normal traffic	2767.77	168.51	16.43	44.60	29.64	501.61	227.57	679.00	1408.18
Bus									
Tram									
Pedestrians									
TOTAL	2767.77	168.51	16.43	44.60	29.64	501.61	227.57	679.00	1408.18

- | < = adjusted flow warning (upstream links/traffic streams are over-saturated)
- | * = Traffic Stream - Normal, Bus or Tram Stop or Delay weighting has been set to a value other than 100%
- | ^ = Traffic Stream - Normal, Bus or Tram Stop or Delay Path weighting has been set to a value other than 100%
- | + = average link/traffic stream excess queue is greater than 0
- | **P.I. = PERFORMANCE INDEX**

A6 - 2026 Base + HG(140) + Coed Darcy PM

D6 - 2026 Base + HG(140) + Coed Darcy, PM

Summary

Data Errors and Warnings

No errors or warnings

Run Summary

Analysis set used	Run start time	Run finish time	Run duration (s)	Modelling start time (HH:mm)	Network Cycle Time (s)	Performance Index (£ per hr)	Total network delay (PCU-hr/hr)	Highest DOS (%)	Item with highest DOS	Number of oversaturated items	Percentage of oversaturated items (%)	Item with worst signalised PRC	Item with worst unsignalised PRC
6	10/11/2021 16:15:21	10/11/2021 16:15:21	0.50	16:30	70	853.90	63.93	83.70	1002	0	0	1002	803

Analysis Set Details

Name	Use Simulation	Description	Use specific Demand Set(s)	Specific Demand Set(s)	Optimise specific Demand Set(s)	Include in report	Locked
2026 Base + HG(140) + Coed Darcy PM			✓	D6		✓	

Demand Set Details

Scenario name	Time Period name	Description	Composite	Demand sets	Start time (HH:mm)	Locked	Run automatically
2026 Base + HG(140) + Coed Darcy	PM				16:30		✓

Network Options

Network timings

Network cycle time (s)	Minimum possible cycle time (s)	Absolute minimum possible cycle time (s)	Restrict to SCOOT cycle times	Time segment length (min)	Number of time segments	Modelled time period (min)
70	26	26		60	1	60

Signals options

Start displacement (s)	End displacement (s)
2	3

Advanced

Phase minimum broken penalty (£)	Phase maximum broken penalty (£)	Intergreen broken penalty (£)	Starting Red-with-Amber (s)	Missing stage transition options
10000.00	10000.00	10000.00	2	Assume banned

Traffic options

Traffic model	Vehicle flow scaling factor (%)	Pedestrian flow scaling factor (%)	Cruise times or speeds
Platoon Dispersion (PDM)	100	100	Cruise Speeds

Advanced

Resolution	DOS Threshold (%)	Cruise scaling factor (%)	Use link stop weightings	Use link delay weightings	Exclude pedestrians from traffic model	Exclude pedestrians from results calculation	Random delay mode	PCU Length (m)	Calculate results for Path Segments	Generate PDM Profile Data
1	90	100	✓	✓			Simplified (TRANSYT 12)	5.75		✓

Normal Traffic parameters

Dispersion type	Dispersion coefficient	Travel time coefficient
Default	35	80

Normal Traffic Types

Name	PCU Factor
Normal	1.00

Bus parameters

Name	PCU Factor	Dispersion type	Acceleration (ms ² [-2])	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms ² [-2])	Stationary time coefficient	Cruise time coefficient
Tram	1.00	Default	0.94	100	100

Pedestrian parameters

Dispersion type
Default

Optimisation options

Enable optimisation	Auto redistribute	Optimisation level	Enable OUT Profile accuracy
✓	✓	Offsets Only	✓

Advanced

Optimisation type	OUTProfile accuracy (%)	SASart temperature	SACooling factor	Random seed	Use enhanced optimisation	Auto optimisation order	Optimisation order	Master controller	Offsets relative to master controller	Master controller offset after each run
Simulated Annealing	10, 10, 1, 1, 0.1, 0.01, 0.01	300.00	100.00	1	✓	✓	7, 8, 9, 10			Do nothing

Economics

Vehicle Monetary Value Of Delay (£ per PCU-hr)	Vehicle Monetary Value Of Stops (£ per 100 stops)	Pedestrian monetary value of delay (£ per Ped-hr)
14.20	2.60	14.20

Traffic Nodes

Traffic Nodes

Traffic node	Name	Description
(ALL)		

Links

Links

Link	Name	Description	Traffic node	Length (m)	Has Saturation Flow	Use RR67	Saturation flow (PCU/hr)	Cell saturation flow (PCU/hr)	Is signal controlled	Is give way	Traffic type	Is minor shared	Major link	Allow Nearside Turn On Red
700			7	40.00	✓		1957	1800	✓		Normal			
701			7	40.00	✓		1954		✓		Normal			
702			7	40.00	✓		2097		✓		Normal			
703			7	40.00	✓		2097	1800	✓		Normal			
704			7	160.00	✓		1954				Normal			
705			7	160.00	✓		2097				Normal			
710			7	109.89	✓		2088		✓		Normal			
711				109.89							Normal	✓	710	
712				109.89							Normal	✓	710	
720			7	107.01	✓		2231		✓		Normal			
721				107.01							Normal	✓	720	
730			7	104.31	✓		2299		✓		Normal			
731				104.31							Normal	✓	730	
732				104.31							Normal	✓	730	
790			7	82.17	✓		2010				Normal			
791			7	82.17	✓		2124				Normal			
792			7	82.87	✓		2115				Normal			
800			8	200.00	✓		2001		✓		Normal			
801			8	40.00	✓		2110		✓		Normal			
802			8	40.00	✓		2110	1800	✓		Normal			
803			8	160.00	✓		2110				Normal			
810			8	83.00	✓		2182		✓		Normal			
811				83.14							Normal	✓	810	
812				83.14							Normal	✓	810	
820			8	80.23	✓		2295		✓		Normal			
821				80.23							Normal	✓	820	
822				80.23							Normal	✓	820	
890			8	200.00	✓		1911				Normal			
891			8	200.00	✓		2042				Normal			
900			9	100.00	✓		2158	1800	✓		Normal			
901			9	100.00	✓		2158		✓		Normal			
902			9	200.00	✓		2287		✓		Normal			
903			9	100.00	✓		2158				Normal			
910			9	162.90	✓		1995		✓		Normal			
911				162.90							Normal	✓	910	
912				162.90							Normal	✓	910	
920			9	158.76	✓		2187		✓		Normal			
921	(untitled)			158.76							Normal	✓	920	
930	(untitled)		9	158.76	✓		2187		✓		Normal			
931				158.76							Normal	✓	930	
990			9	200.00	✓		2133				Normal			
991	(untitled)		9	200.00	✓		2133				Normal			
1000			10	200.00	✓		2139		✓		Normal			
1001			10	200.00	✓		2317		✓		Normal			
1002			10	200.00	✓		2317		✓		Normal			
1010	(untitled)		10	95.68	✓		2071		✓		Normal			
1011	(untitled)			95.68							Normal	✓	1010	
1020			10	95.68	✓		2071		✓		Normal			
1022				95.68							Normal	✓	1020	
1023	(untitled)			95.68							Normal	✓	1020	
1030			10	90.73	✓		2247		✓		Normal			
1031				90.73							Normal	✓	1030	
1040			10	85.01	✓		2253		✓		Normal			
1090			10	63.28	✓		2051				Normal			
1091			10	63.07	✓		2164				Normal			

Modelling

Link	Traffic model	Stop weighting (%)	Delay weighting (%)	Assignment Cost Weighting (%)	Exclude from results calculation	Max queue storage (PCU)	Has queue limit	Queue limit (PCU)	Excess queue penalty (£)	Has degree of saturation limit
700	Flare	0	20	100		0.00				
701	NetworkDefault	0	20	100		0.00				
702	NetworkDefault	0	20	100		0.00				
703	Flare	0	20	100		0.00				
704	NetworkDefault	100	100	100		0.00				
705	NetworkDefault	100	100	100		0.00				
710	NetworkDefault	500	100	100		12.50	✓	10.00	1000.00	
711	NetworkDefault	500	100	100					0.00	
712	NetworkDefault	500	100	100					0.00	
720	NetworkDefault	500	100	100		12.50	✓	10.00	1000.00	
721	NetworkDefault	500	100	100					0.00	
730	NetworkDefault	500	100	100		13.00	✓	11.00	1000.00	
731	NetworkDefault	500	100	100					0.00	
732	NetworkDefault	100	100	100					0.00	
790	NetworkDefault	100	100	100		0.00				
791	NetworkDefault	100	100	100		0.00				
792	NetworkDefault	100	100	100		0.00				
800	NetworkDefault	0	20	100		0.00				
801	NetworkDefault	20	0	100		0.00				
802	Flare	20	0	100		0.00				
803	NetworkDefault	100	100	100		0.00				
810	NetworkDefault	500	100	100		7.00	✓	4.00	1000.00	
811	NetworkDefault	500	100	100					0.00	
812	NetworkDefault	500	100	100					0.00	
820	NetworkDefault	500	100	100		9.00	✓	5.00	1000.00	
821	NetworkDefault	500	100	100					0.00	
822	NetworkDefault	100	100	100					0.00	
890	NetworkDefault	100	100	100		0.00				
891	NetworkDefault	100	100	100		0.00				
900	Flare	0	20	100		0.00				
901	NetworkDefault	0	20	100		0.00				
902	NetworkDefault	0	20	100		0.00				
903	NetworkDefault	100	100	100		0.00				
910	NetworkDefault	500	100	100		17.50				
911	NetworkDefault	500	100	100						
912	NetworkDefault	500	100	100						
920	NetworkDefault	500	100	100		18.00				
921	NetworkDefault	100	100	100						
930	NetworkDefault	100	100	100		18.00				
931	NetworkDefault	100	100	100						
990	NetworkDefault	100	100	100		0.00				
991	NetworkDefault	100	100	100		0.00				
1000	NetworkDefault	0	20	100		0.00				
1001	NetworkDefault	0	20	100		0.00				
1002	NetworkDefault	0	20	100		0.00				
1010	NetworkDefault	500	100	100		9.00	✓	7.00	1000.00	
1011	NetworkDefault	100	100	100					0.00	
1020	NetworkDefault	500	100	100		9.00	✓	7.00	1000.00	
1022	NetworkDefault	500	100	100					0.00	
1023	NetworkDefault	100	100	100					0.00	
1030	NetworkDefault	500	100	100		9.50	✓	8.00	1000.00	
1031	NetworkDefault	500	100	100					0.00	
1040	NetworkDefault	500	100	100		10.00	✓	8.00	1000.00	
1090	NetworkDefault	100	100	100		0.00				
1091	NetworkDefault	100	100	100		0.00				

Modelling - Normal traffic - Advanced

Link	Dispersion type for Normal Traffic	Initial queue (PCU)	Auto cycle time	Cycle time
700	NetworkDefault	0.00	✓	70
701	NetworkDefault	0.00	✓	70
702	NetworkDefault	0.00	✓	70
703	NetworkDefault	0.00	✓	70
704	NetworkDefault	0.00	✓	70
705	NetworkDefault	0.00	✓	70
710	NetworkDefault	0.00	✓	70
711	NetworkDefault			
712	NetworkDefault			
720	NetworkDefault	0.00	✓	70
721	NetworkDefault			
730	NetworkDefault	0.00	✓	70
731	NetworkDefault			
732	NetworkDefault			
790	NetworkDefault	0.00	✓	70
791	NetworkDefault	0.00	✓	70
792	NetworkDefault	0.00	✓	70
800	NetworkDefault	0.00	✓	70
801	NetworkDefault	0.00	✓	70
802	NetworkDefault	0.00	✓	70
803	NetworkDefault	0.00	✓	70
810	NetworkDefault	0.00	✓	70
811	NetworkDefault			
812	NetworkDefault			
820	NetworkDefault	0.00	✓	70
821	NetworkDefault			
822	NetworkDefault			
890	NetworkDefault	0.00	✓	70
891	NetworkDefault	0.00	✓	70
900	NetworkDefault	0.00	✓	70
901	NetworkDefault	0.00	✓	70
902	NetworkDefault	0.00	✓	70
903	NetworkDefault	0.00	✓	70
910	NetworkDefault	0.00	✓	70
911	NetworkDefault			
912	NetworkDefault			
920	NetworkDefault	0.00	✓	70
921	NetworkDefault			
930	NetworkDefault	0.00	✓	70
931	NetworkDefault			
990	NetworkDefault	0.00	✓	70
991	NetworkDefault	0.00	✓	70
1000	NetworkDefault	0.00	✓	70
1001	NetworkDefault	0.00	✓	70
1002	NetworkDefault	0.00	✓	70
1010	NetworkDefault	0.00	✓	70
1011	NetworkDefault			
1020	NetworkDefault	0.00	✓	70
1022	NetworkDefault			
1023	NetworkDefault			
1030	NetworkDefault	0.00	✓	70
1031	NetworkDefault			
1040	NetworkDefault	0.00	✓	70
1090	NetworkDefault	0.00	✓	70
1091	NetworkDefault	0.00	✓	70

Flows

Link	Total flow (PCU/hr)	PCU Factor
700	352	1.00
701	351	1.00
702	377	1.00
703	401	1.00
704	703	1.00
705	778	1.00
710	0	1.00
711	12	1.00
712	399	1.00
720	207	1.00
721	399	1.00
730	333	1.00
731	344	1.00
732	138	1.00
790	762	1.00
791	957	1.00
792	857	1.00
800	798	1.00
801	841	1.00
802	346	1.00
803	1187	1.00
810	0	1.00
811	2	1.00
812	194	1.00
820	401	1.00
821	9	1.00
822	130	1.00
890	994	1.00
891	157	1.00
900	575	1.00
901	399	1.00
902	742	1.00
903	974	1.00
910	312	1.00
911	241	1.00
912	9	1.00
920	502	1.00
921	160	1.00
930	346	1.00
931	0	1.00
990	1137	1.00
991	160	1.00
1000	284	1.00
1001	207	1.00
1002	471	1.00
1010	0	1.00
1011	502	1.00
1020	0	1.00
1022	334	1.00
1023	0	1.00
1030	399	1.00
1031	12	1.00
1040	742	1.00
1090	786	1.00
1091	334	1.00

Flows - Advanced

Link	Detectors
(ALL)	

Signals

Link	Controller stream	Phase	Second phase enabled
700	7	C	
701	7	C	
702	7	C	
703	7	C	
710	7	D	
711			
712			
720	7	D	
721			
730	7	D	
731			
732			
800	8	A	
801	8	A	
802	8	A	
810	8	B	
811			
812			
820	8	B	
821			
822			
900	9	A	
901	9	A	
902	9	A	
910	9	B	
911			
912			
920	9	B	
921			
930	9	B	
931			
1000	10	A	
1001	10	A	
1002	10	A	
1010	10	B	
1011			
1020	10	B	
1022			
1023			
1030	10	B	
1031			
1040	10	B	

Entry Sources

Link	Cruise time (seconds)	Cruise speed (kph)
704	19.20	30.00
705	19.20	30.00
800	24.83	29.00
803	19.20	30.00
902	24.91	28.90
903	12.00	30.00
1000	48.00	15.00
1001	48.00	15.00
1002	24.00	30.00

Sources

Link	Source	Source type	Source link	Destination link	Cruise time (seconds)	Cruise speed (kph)	Total flow (PCU/hr)
700	1	Link	704	700	4.50	32.00	352
701	1	Link	704	701	4.50	32.00	351
702	1	Link	705	702	4.50	32.00	377
703	1	Link	705	703	4.50	32.00	401
710	1	Link	1000	710	12.36	32.00	0
711	1	Link	1031	711	12.36	32.00	12
712	1	Link	1030	712	12.36	32.00	399
720	1	Link	1001	720	12.04	32.00	207
721	1	Link	1040	721	12.04	32.00	399
730	1	Link	1002	730	11.73	32.00	333
731	1	Link	1040	731	11.73	32.00	344
732	1	Link	1002	732	11.73	32.00	138
790	1	Link	710	790	9.24	32.00	0
791	1	Link	720	791	9.24	32.00	207
792	1	Link	731	792	9.32	32.00	342
801	1	Link	803	801	4.50	32.00	841
802	1	Link	803	802	4.50	32.00	346
810	1	Link	702	810	9.34	32.00	0
811	1	Link	731	811	9.35	32.00	2
812	1	Link	730	812	9.35	32.00	194
820	1	Link	703	820	9.03	32.00	401
821	1	Link	730	821	9.03	32.00	9
822	1	Link	730	822	9.03	32.00	130
890	1	Link	810	890	22.50	32.00	0
891	1	Link	801	891	22.50	32.00	27
900	1	Link	903	900	11.25	32.00	575
901	1	Link	903	901	11.25	32.00	399
910	1	Link	801	910	18.33	32.00	312
911	1	Link	820	911	18.33	32.00	241
912	1	Link	821	912	18.33	32.00	9
920	1	Link	801	920	17.86	32.00	502
921	1	Link	820	921	17.86	32.00	160
930	1	Link	802	930	17.86	32.00	346
931	1	Link	820	931	17.86	32.00	0
990	1	Link	910	990	22.50	32.00	312
991	1	Link	921	991	22.50	32.00	160
1010	1	Link	901	1010	10.76	32.00	0
1011	1	Link	920	1011	10.76	32.00	502
1020	1	Link	901	1020	10.76	32.00	0
1022	1	Link	930	1022	10.76	32.00	334
1023	1	Link	931	1023	10.76	32.00	0
1030	1	Link	901	1030	10.21	32.00	399
1031	1	Link	930	1031	10.21	32.00	12
1040	1	Link	902	1040	9.56	32.00	742

1090	1	Link	1000	1090	7.12	32.00	284
1091	1	Link	1020	1091	7.10	32.00	0
790	2	Link	711	790	9.24	32.00	12
791	2	Link	721	791	9.24	32.00	399
792	2	Link	732	792	9.32	32.00	138
890	2	Link	800	890	22.50	32.00	798
891	2	Link	822	891	22.50	32.00	130
990	2	Link	911	990	22.50	32.00	241
991	2	Link	920	991	22.50	32.00	0
1090	2	Link	1010	1090	7.12	32.00	0
1091	2	Link	1022	1091	7.10	32.00	334
790	3	Link	712	790	9.24	32.00	399
791	3	Link	701	791	9.24	32.00	351
792	3	Link	702	792	9.32	32.00	377
890	3	Link	812	890	22.50	32.00	194
990	3	Link	912	990	22.50	32.00	9
1090	3	Link	1011	1090	7.12	32.00	502
1091	3	Link	1023	1091	7.10	32.00	0
790	4	Link	700	790	9.24	32.00	352
890	4	Link	811	890	22.50	32.00	2
990	4	Link	900	990	22.50	32.00	575

Local OD Matrix - Local Matrix: 1

Local Matrix Options

OD Matrix	Name	Use for point to point table	Auto calculate	Allocation mode	Allow paths past exit locations	Allow looped paths on arms	Allow looped paths on traffic nodes	Copy flows	Matrix to copy flows from	Limit paths by length	Path length limit multiplier	Limit paths by number	Path number limit	Limit paths by flow	Low path flow threshold
1	(untitled)	✓	✓	Lane Balancing			✓			✓	1.25				

Normal Input Flows (PCU/hr)

	To				
	A	B	C	D	
From	A	0	1080	0	401
	B	836	12	825	312
	C	0	1139	2	575
	D	284	345	324	9

Bus Input Flows not shown as they are blank.

Tram Input Flows not shown as they are blank.

Pedestrian Input Flows not shown as they are blank.

Locations

OD Matrix	Location	Name	Entries	Exits	Colour
1	A	(untitled)	705, 704	1090, 1091	#0000FF
	B	(untitled)	800, 803	792, 791, 790	#FF0000
	C	(untitled)	902, 903	891, 890	#00FF00
	D	(untitled)	1000, 1001, 1002	990, 991	#FFFF00

Normal Paths and Flows

OD Matrix	Path	Description	From location	To location	Path items	Allocation type	Normal Calculated Flow (PCU/hr)
1	15		B	C	800, 890	Normal	798
	17		D	B	1000, 710, 790	Percentage	0
	18		D	A	1000, 1090	Normal	284
	20		D	B	1001, 720, 791	Percentage	207
	21		A	C	705, 702, 810, 890	Normal	0
	22		A	B	705, 702, 792	Normal	377
	23		A	D	705, 703, 820, 911, 990	Percentage	241
	25		D	D	1002, 730, 821, 912, 990	Normal	9
	26		D	B	1002, 732, 792	Percentage	138
	27		A	B	704, 701, 791	Normal	351
	28		A	B	704, 700, 790	Normal	352
	29		D	C	1002, 730, 822, 891	Percentage	130
	51		C	B	902, 1040, 721, 791	Percentage	399
	52		C	C	902, 1040, 731, 811, 890	Normal	2
	53		C	B	902, 1040, 731, 792	Percentage	342
	58		D	C	1002, 730, 812, 890	Percentage	194
	68		B	B	803, 802, 930, 1031, 711, 790	Normal	12
	69		B	A	803, 802, 930, 1022, 1091	Percentage	334
	70		B	D	803, 801, 920, 991	Percentage	0
	71		B	A	803, 801, 920, 1011, 1090	Percentage	502
	73		A	D	705, 703, 820, 921, 991	Percentage	160
	74		A	A	705, 703, 820, 931, 1023, 1091	Normal	0
	75		C	A	903, 901, 1020, 1091	Normal	0
	76		C	B	903, 901, 1030, 712, 790	Percentage	399
	77		C	A	903, 901, 1010, 1090	Normal	0
	78		C	D	903, 900, 990	Normal	575
	79		B	D	803, 801, 910, 990	Percentage	312
	80		B	C	803, 801, 891	Normal	27

Signal Timings

Network Default: 70s cycle time; 70 steps

Controller Stream 7

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)	Minimum possible cycle time (s)
7			1	NetworkDefault	70	26

Controller Stream 7 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
7	Microsense Systems						Absolute

Controller Stream 7 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
7	✓	✓	Offsets Only		

Phases

Controller Stream	Phase	Name	Street minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type
7	(ALL)	(untitled)	7	60	0	0	Unknown

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)	Run every N cycles	Probability of running (%)
7	1	C	1	0	0
	2	D	1	0	0

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends	Minimum possible cycle time (s)	Exclude from analysis
7	1	(untitled)	Single	1, 2	68, 39	26	

Intergreen Matrix for Controller Stream 7

	To		
		C	D
	From	C	D
			6
		D	6

Banned Stage transitions for Controller Stream 7

	To		
		1	2
	From	1	2
		2	

Link Results

Link Results: Vehicle summary

Time Segment	Link	Major link	Degree of saturation (%)	Practical reserve capacity (%)	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual green (s (per cycle))	Mean Delay per Veh (s)	Mean max queue (PCU)	Utilised storage (%)	Weighted cost of delay (£ per hr)	Weighted cost of stops (£ per hr)	Performance Index (£ per hr)
16:30-17:30	700		52	72	352	1957	23	24.20	5.66	83.64	6.72	0.00	6.72
	701		52	72	351	1954	23	24.06	6.01	81.83	6.67	0.00	6.67
	702		52	72	377	2097	23	23.66	6.25	79.30	7.04	0.00	7.04
	703		56	61	401	2097	23	24.72	6.46	95.44	7.82	0.00	7.82
	704		36	150	703	1954	70	1.44	0.28	0.96	3.99	0.00	3.99
	705		38	135	778	2097	70	1.47	0.96	3.04	4.50	0.37	4.87
	710		38	135	0	2088	35	0.00	6.79	54.34	0.00	0.00	0.00
	711	710			12			23.50			1.11	0.88	2.00
	712	710			399			9.74			15.32	20.10	35.41
	720		53	71	207	2231	35	6.52	5.03	40.23	5.32	2.23	7.56
	721	720			398			9.60			15.09	13.70	28.79
	730		69	31	333	2299	35	9.72	6.56	50.43	12.76	5.28	18.05
	731	730			344			12.30			16.66	14.68	31.34
	732	730			138			9.72			5.29	0.44	5.73
	790		38	137	763	2010	70	1.44	0.87	5.60	4.34	0.23	4.57
	791		45	100	957	2124	70	1.54	0.41	2.50	5.81	0.00	5.81
	792		40	122	857	2115	70	1.43	0.34	2.06	4.83	0.00	4.83
	800		75	19	798	2001	36	19.79	13.49	35.85	12.46	0.00	12.46
	801		75	19	841	2110	36	19.42	14.13	178.03	0.00	2.00	2.00
	802		31	190	346	2110	36	11.76	3.78	55.92	0.00	0.55	0.55
	803		56	60	1187	2110	70	1.95	0.64	2.02	9.12	0.00	9.12
	810		27	229	0	2182	22	0.00	3.25	46.49	0.00	0.00	0.00
	811	810			2			23.07			0.18	0.15	0.33
	812	810			194			9.98			7.66	9.52	17.18
	820		72	26	401	2295	22	24.03	6.56	72.91	38.01	13.62	189.64
	821	820			9			17.95			0.64	0.62	1.26
	822	820			130			17.95			9.18	1.79	10.97
	890		52	73	994	1911	70	1.96	0.54	1.51	7.69	0.00	7.69
	891		8	1070	157	2042	70	0.95	0.04	0.11	0.59	0.00	0.59
	900		57	59	575	2158	32	18.08	8.43	49.84	8.20	0.00	8.20
	901		39	130	399	2158	32	14.91	5.31	26.16	4.69	0.00	4.69
	902		69	31	742	2287	32	19.80	12.23	28.43	11.59	0.00	11.59
	903		45	99	974	2158	70	1.52	0.41	2.03	5.84	0.00	5.84
	910		73	23	312	1995	26	18.30	10.85	61.99	22.52	17.79	40.31
	911	910			241			30.61			29.05	19.13	48.18
	912	910			9			34.41			1.22	0.72	1.94
	920		78	15	501	2187	26	18.60	12.84	71.34	36.79	30.08	66.86
	921	920			160			31.57			19.98	2.59	22.57
	930		41	119	346	2187	26	10.35	4.66	25.91	14.13	2.88	17.02
	931	930			0			0.00			0.00	0.00	0.00
	990		53	69	1137	2133	70	1.80	0.57	1.42	8.09	0.00	8.09
	991		8	1097	160	2133	70	0.91	0.04	0.10	0.58	0.00	0.58
	1000		55	65	284	2139	16	30.75	5.41	13.46	6.89	0.00	6.89
	1001		37	145	207	2317	16	27.10	3.63	8.32	4.42	0.00	4.42
	1002		84	8	471	2317	16	43.83	11.07	25.42	16.29	0.00	16.29
	1010		39	128	0	2071	42	0.00	8.44	93.77	0.00	0.00	53.37
	1011	1010			501			4.38			8.66	4.26	12.92
	1020		26	243	0	2071	42	0.00	5.39	59.84	0.00	0.00	0.00
	1022	1020			334			6.55			8.63	17.94	26.57
	1023	1020			0			0.00			0.00	0.00	0.00
	1030		30	202	399	2247	42	6.32	2.04	21.45	9.94	6.88	16.82
	1031	1030			12			6.08			0.29	0.53	0.82
	1040		54	68	742	2253	42	8.20	4.01	40.15	23.99	16.83	40.82
	1090		38	135	785	2051	70	1.42	2.03	16.61	4.41	0.46	4.86
	1091		15	483	334	2164	70	0.98	0.09	0.71	1.30	0.00	1.30

Link Results: Flows and signals

Time Segment	Link	Major link	Calculated flow entering (PCU/hr)	Calculated flow out (PCU/hr)	Flow discrepancy (PCU/hr)	Adjusted flow warning	Calculated sat flow (PCU/hr)	Calculated capacity (PCU/hr)	Degree of saturation (%)	DOS Threshold exceeded	Practical reserve capacity (%)	Mean modulus of error	Actual green (s (per cycle))	Effective green (s (per cycle))
16:30-17:30	700		352	352	0		1957	671	52		72	0.00	23	24
	701		351	351	0		1954	670	52		72	0.00	23	24
	702		377	377	0		2097	719	52		72	0.02	23	24
	703		401	401	0		2097	719	56		61	0.03	23	24
	704		703	703	0		1954	1954	36		150	0.00	70	70
	705		778	778	0		2097	2031	38		135	0.00	70	70
	710		0	0	0		2088	1074	38		135	0.00	35	36
	711	710	12	12	0						135	1.35		
	712	710	399	399	0						135	0.99		
	720		207	207	0		2231	1147	53		71	1.39	35	36
	721	720	398	398	0	✓					71	0.91		
	730		333	333	0		2299	1182	69		31	1.32	35	36
	731	730	344	344	0						31	0.92		
	732	730	138	138	0						31	1.32		
	790		763	763	0	✓	2010	2010	38		137	0.78	70	70
	791		957	957	0		2124	2124	45		100	0.49	70	70
	792		857	857	0		2115	2115	40		122	0.57	70	70
	800		798	798	0		2001	1058	75		19	0.00	36	37
	801		841	841	0		2110	1115	75		19	0.00	36	37
	802		346	346	0		2110	1115	31		190	0.00	36	37
	803		1187	1187	0		2110	2110	56		60	0.00	70	70
	810		0	0	0		2182	717	27		229	0.00	22	23
	811	810	2	2	0						229	1.32		
	812	810	194	194	0						229	1.15		
	820		401	401	0		2295	754	72		26	1.24	22	23
	821	820	9	9	0						26	1.16		
	822	820	130	130	0						26	1.16		
	890		994	994	0		1911	1911	52		73	0.47	70	70
	891		157	157	0		2042	2042	8		1070	0.98	70	70
	900		575	575	0		2158	1017	57		59	0.00	32	33
	901		399	399	0		2158	1017	39		130	0.00	32	33
	902		742	742	0		2287	1078	69		31	0.00	32	33
	903		974	974	0		2158	2158	45		99	0.00	70	70
	910		312	312	0		1995	770	73		23	0.81	26	27
	911	910	241	241	0						23	0.99		
	912	910	9	9	0						23	1.36		
	920		501	501	0	✓	2187	844	78		15	0.81	26	27
	921	920	160	160	0						15	1.00		
	930		346	346	0		2187	844	41		119	0.80	26	27
	931	930	0	0	0						119	0.00		
	990		1137	1137	0		2133	2133	53		69	0.34	70	70
	991		160	160	0		2133	2133	8		1097	1.27	70	70
	1000		284	284	0		2139	519	55		65	0.00	16	17
	1001		207	207	0		2317	563	37		145	0.00	16	17
	1002		471	471	0		2317	563	84		8	0.00	16	17
	1010		0	0	0		2071	1272	39		128	0.00	42	43
	1011	1010	501	501	0	✓					128	1.12		
	1020		0	0	0		2071	1272	26		243	0.00	42	43
	1022	1020	334	334	0						243	1.14		
	1023	1020	0	0	0						243	0.00		
	1030		399	399	0		2247	1380	30		202	0.98	42	43
	1031	1030	12	12	0						202	1.14		
	1040		742	742	0		2253	1384	54		68	0.98	42	43
	1090		785	785	0	✓	2051	2051	38		135	0.90	70	70
	1091		334	334	0		2164	2164	15		483	1.33	70	70

Link Results: Stops and delays

Time Segment	Link	Major link	Mean Cruise Time per Veh (s)	Mean Delay per Veh (s)	Uniform delay (PCU-hr/hr)	Random plus oversat delay (PCU-hr/hr)	Unweighted cost of delay (£ per hr)	Weighted cost of delay (£ per hr)	Mean stops per Veh (%)	Uniform stops (Stops per hr)	Random stops (Stops per hr)	Unweighted cost of stops (£ per hr)	Weighted cost of stops (£ per hr)
	700		4.50	24.20	1.82	0.55	33.58	6.72	82.56	262.72	27.68	4.14	0.00
	701		4.50	24.06	1.80	0.55	33.33	6.67	84.79	270.13	27.68	4.25	0.00
	702		4.50	23.66	1.93	0.55	35.18	7.04	83.53	287.15	27.73	4.49	0.00
	703		4.50	24.72	2.13	0.63	39.10	7.82	82.69	299.93	31.66	4.73	0.00
	704		19.20	1.44	0.00	0.28	3.99	3.99	0.00	0.00	0.00	0.00	0.00
	705		19.20	1.47	0.01	0.31	4.50	4.50	3.80	13.69	15.87	0.37	0.37
	710		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	711	710	12.36	23.50	0.07	0.01	1.11	1.11	103.32	11.93	0.46	0.18	0.88
	712	710	12.36	9.74	0.78	0.30	15.32	15.32	70.65	266.43	15.30	4.02	20.10
	720		12.04	6.52	0.18	0.19	5.32	5.32	15.13	21.63	9.69	0.45	2.23
	721	720	12.04	9.60	0.70	0.37	15.09	15.09	48.20	173.42	18.65	2.74	13.70
	730		11.73	9.72	0.45	0.45	12.76	12.76	22.23	51.29	22.75	1.06	5.28
	731	730	11.73	12.30	0.71	0.46	16.66	16.66	59.89	182.29	23.46	2.94	14.68
	732	730	11.73	9.72	0.19	0.19	5.29	5.29	22.23	21.26	9.43	0.44	0.44
	790		9.24	1.44	0.00	0.31	4.34	4.34	2.07	0.19	15.63	0.23	0.23
	791		9.24	1.54	0.00	0.41	5.81	5.81	0.00	0.00	0.00	0.00	0.00
	792		9.32	1.43	0.00	0.34	4.83	4.83	0.00	0.00	0.00	0.00	0.00
	800		24.83	19.79	2.87	1.52	62.30	12.46	84.03	594.30	76.23	7.86	0.00
	801		4.50	19.42	3.02	1.51	64.39	0.00	83.19	623.26	76.10	9.98	2.00
	802		4.50	11.76	0.91	0.23	16.06	0.00	56.13	182.88	11.48	2.77	0.55
	803		19.20	1.95	0.00	0.64	9.12	9.12	0.00	0.00	0.00	0.00	0.00
16:30-17:30	811	810	9.35	23.07	0.01	0.00	0.18	0.18	104.28	1.99	0.10	0.03	0.15
	812	810	9.35	9.98	0.35	0.19	7.66	7.66	68.65	123.99	9.48	1.90	9.52
	820		9.03	24.03	1.75	0.92	38.01	38.01	47.60	144.72	46.15	2.72	13.62
	821	820	9.03	17.95	0.02	0.02	0.64	0.64	96.78	7.67	1.04	0.12	0.62
	822	820	9.03	17.95	0.35	0.30	9.18	9.18	96.78	110.51	14.92	1.79	1.79
	890		22.50	1.96	0.00	0.54	7.69	7.69	0.00	0.02	0.00	0.00	0.00
	891		22.50	0.95	0.00	0.04	0.59	0.59	0.00	0.00	0.00	0.00	0.00
	900		11.25	18.08	2.24	0.65	41.01	8.20	73.45	389.59	32.88	6.03	0.00
	901		11.25	14.91	1.33	0.32	23.45	4.69	66.01	246.86	16.39	3.76	0.00
	902		24.91	19.80	2.98	1.10	57.94	11.59	82.23	554.81	55.33	7.10	0.00
	903		12.00	1.52	0.00	0.41	5.84	5.84	0.00	0.00	0.00	0.00	0.00
	910		18.33	18.30	0.85	0.74	22.52	22.52	79.96	212.45	36.93	3.56	17.79
	911	910	18.33	30.61	1.47	0.57	29.05	29.05	111.45	239.67	28.49	3.83	19.13
	912	910	18.33	34.41	0.06	0.02	1.22	1.22	111.75	8.99	1.07	0.14	0.72
	920		17.86	18.60	1.24	1.35	36.79	36.79	84.09	354.45	67.22	6.02	30.08
	921	920	17.86	31.57	0.97	0.43	19.98	19.98	113.06	159.86	21.51	2.59	2.59
	930		17.86	10.35	0.65	0.35	14.13	14.13	58.35	184.41	17.65	2.88	2.88
	931	930	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	990		22.50	1.80	0.00	0.57	8.09	8.09	0.00	0.00	0.00	0.00	0.00
	991		22.50	0.91	0.00	0.04	0.58	0.58	0.00	0.00	0.00	0.00	0.00
	1000		48.00	30.75	1.83	0.60	34.44	6.89	96.27	243.37	30.03	0.86	0.00
	1001		48.00	27.10	1.27	0.29	22.12	4.42	88.99	169.54	14.67	0.58	0.00
	1002		24.00	43.83	3.30	2.44	81.43	16.29	117.06	433.95	117.42	6.91	0.00
	1010		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1011	1010	10.76	4.38	0.29	0.33	8.66	8.66	59.49	281.71	16.58	4.26	4.26
	1020		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1022	1020	10.76	6.55	0.43	0.18	8.63	8.63	75.23	242.39	9.10	3.59	17.94
	1023	1020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1030		10.21	6.32	0.49	0.21	9.94	9.94	24.19	85.96	10.50	1.38	6.88
	1031	1030	10.21	6.08	0.01	0.01	0.29	0.29	62.29	7.16	0.32	0.11	0.53

	1040		9.56	8.20	1.11	0.58	23.99	23.99	31.80	177.79	58.16	3.37	16.83
	1090		7.12	1.42	0.00	0.31	4.41	4.41	4.07	0.39	31.58	0.46	0.46
	1091		7.10	0.98	0.00	0.09	1.30	1.30	0.00	0.00	0.00	0.00	0.00

Link Results: Queues and blocking

Time Segment	Link	Major link	Initial queue (PCU)	Mean max queue (PCU)	Max queue storage (PCU)	Utilised storage (%)	Average storage excess queue (PCU)	Average limit excess queue (PCU)	Excess queue penalty (£ per hr)	Mean end of green queue (PCU)	Mean end of red queue (PCU)	Wasted time starvation (s (per cycle))	Wasted time blocking back (s (per cycle))	Wasted time total (s (per cycle))	Estimated blocking
16:30-17:30	700		0.00	5.66	6.77	83.64	0.00	0.00	0.00	0.55	5.33	0.00	0.00	0.00	
	701		0.00	6.01	7.35	81.83	0.00	0.00	0.00	0.55	5.04	0.00	0.00	0.00	
	702		0.00	6.25	7.89	79.30	0.00	0.00	0.00	0.55	5.37	0.00	0.00	0.00	
	703		0.00	6.46	6.77	95.44	0.00	0.00	0.00	0.63	6.09	0.00	0.00	0.00	
	704		0.00	0.28	29.39	0.96	0.00	0.00	0.00			0.00	0.00	0.00	
	705		0.00	0.96	31.54	3.04	0.00	0.00	0.00			0.00	2.19	2.19	
	710		0.00	6.79	12.50	54.34	0.00	0.00	0.00	0.31	2.96	12.00	0.00	12.00	
	711	710							0.00						
	712	710							0.00						
	720		0.00	5.03	12.50	40.23	0.00	0.00	0.00	0.56	3.27	0.00	0.00	0.00	
	721	720							0.00						
	730		0.00	6.56	13.00	50.43	0.00	0.00	0.00	1.10	4.66	0.00	0.00	0.00	
	731	730							0.00						
	732	730							0.00						
	790		0.00	0.87	15.53	5.60	0.00	0.00	0.00			12.00	0.00	12.00	
	791		0.00	0.41	16.41	2.50	0.00	0.00	0.00			0.00	0.00	0.00	
	792		0.00	0.34	16.48	2.06	0.00	0.00	0.00			0.00	0.00	0.00	
	800		0.00	13.49	37.62	35.85	0.00	0.00	0.00	1.52	8.83	0.00	0.00	0.00	
	801		0.00	14.13	7.93	178.03	1.22	0.00	0.00	1.51	9.22	0.00	0.00	0.00	
	802		0.00	3.78	6.77	55.92	0.00	0.00	0.00	0.23	3.59	0.00	0.00	0.00	
	803		0.00	0.64	31.74	2.02	0.00	0.00	0.00			0.00	27.00	27.00	✓
	810		0.00	3.25	7.00	46.49	0.00	0.00	0.00	0.19	2.09	10.00	0.00	10.00	
	811	810							0.00						
	812	810							0.00						
	820		0.00	6.56	9.00	72.91	0.00	0.14	138.01	1.24	5.40	0.00	0.00	0.00	
	821	820							0.00						
	822	820							0.00						
	890		0.00	0.54	35.93	1.51	0.00	0.00	0.00			0.00	0.00	0.00	
	891		0.00	0.04	38.39	0.11	0.00	0.00	0.00			23.00	0.00	23.00	
	900		0.00	8.43	16.92	49.84	0.00	0.00	0.00	0.65	7.19	0.00	0.00	0.00	
	901		0.00	5.31	20.29	26.16	0.00	0.00	0.00	0.32	4.42	0.00	0.00	0.00	
	902		0.00	12.23	43.00	28.43	0.00	0.00	0.00	1.10	8.72	0.00	0.00	0.00	
	903		0.00	0.41	20.29	2.03	0.00	0.00	0.00			0.00	0.00	0.00	
	910		0.00	10.85	17.50	61.99	0.00	0.00	0.00	1.33	7.38	0.00	0.00	0.00	
	911	910							0.00						
	912	910							0.00						
	920		0.00	12.84	18.00	71.34	0.00	0.00	0.00	1.79	7.12	0.00	0.00	0.00	
	921	920							0.00						
	930		0.00	4.66	18.00	25.91	0.00	0.00	0.00	0.35	2.71	0.00	0.00	0.00	
	931	930							0.00						
	990		0.00	0.57	40.10	1.42	0.00	0.00	0.00			0.00	0.00	0.00	
	991		0.00	0.04	40.10	0.10	0.00	0.00	0.00			45.00	0.00	45.00	
	1000		0.00	5.41	40.22	13.46	0.00	0.00	0.00	0.60	4.78	0.00	0.00	0.00	
	1001		0.00	3.63	43.56	8.32	0.00	0.00	0.00	0.29	3.34	0.00	0.00	0.00	
	1002		0.00	11.07	43.56	25.42	0.00	0.00	0.00	2.44	9.37	0.00	0.00	0.00	
	1010		0.00	8.44	9.00	93.77	0.00	0.05	53.37	0.33	1.94	17.00	0.00	17.00	
	1011	1010							0.00						
	1020		0.00	5.39	9.00	59.84	0.00	0.00	0.00	0.18	3.56	19.00	0.00	19.00	
	1022	1020							0.00						

	1023	1020						0.00							
	1030		0.00	2.04	9.50	21.45	0.00	0.00	0.00	0.21	2.02	19.00	0.00	19.00	
	1031	1030							0.00						
	1040		0.00	4.01	10.00	40.15	0.00	0.00	0.00	0.58	4.01	16.00	0.00	16.00	
	1090		0.00	2.03	12.20	16.61	0.00	0.00	0.00			19.00	0.00	19.00	
	1091		0.00	0.09	12.83	0.71	0.00	0.00	0.00			43.00	0.00	43.00	

Link Results: Journey times

Time Segment	Link	Major link	Distance travelled (PCU-km/hr)	Time spent (PCU-hr/hr)	Mean journey speed (kph)	JourneyTime (s)
16:30-17:30	700		14.07	2.80	5.02	28.70
	701		14.05	2.79	5.04	28.56
	702		15.08	2.95	5.11	28.16
	703		16.04	3.25	4.93	29.22
	704		112.48	4.03	27.91	20.64
	705		124.48	4.47	27.87	20.67
	710		0.00	0.00	0.00	0.00
	711	710	1.32	0.12	11.03	35.86
	712	710	43.82	2.45	17.90	22.10
	720		22.15	1.07	20.76	18.56
	721	720	42.64	2.40	17.80	21.64
	730		34.74	1.98	17.50	21.45
	731	730	35.83	2.29	15.63	24.03
	732	730	14.39	0.82	17.50	21.45
	790		62.66	2.26	27.68	10.69
	791		78.61	2.87	27.43	10.79
	792		70.98	2.56	27.75	10.75
	800		159.60	9.89	16.14	44.62
	801		33.63	5.59	6.02	23.92
	802		13.85	1.56	8.86	16.26
	803		189.92	6.97	27.24	21.15
	810		0.00	0.00	0.00	0.00
	811	810	0.17	0.02	9.23	32.42
	812	810	16.16	1.04	15.48	19.34
	820		32.17	3.68	8.74	33.06
	821	820	0.72	0.07	10.71	26.98
	822	820	10.40	0.97	10.71	26.98
	890		198.88	6.76	29.43	24.46
	891		31.40	1.02	30.70	23.45
	900		57.52	4.69	12.28	29.33
	901		39.88	2.90	13.76	26.16
	902		148.40	9.22	16.10	44.71
	903		97.40	3.66	26.63	13.52
	910		50.81	3.17	16.01	36.63
	911	910	39.20	3.27	11.98	48.94
	912	910	1.47	0.13	11.12	52.74
	920		79.61	5.08	15.68	36.46
	921	920	25.47	2.20	11.56	49.44
	930		54.97	2.71	20.26	28.21
	931	930	0.00	0.00	0.00	0.00
	990		227.34	7.67	29.62	24.30
	991		32.08	1.04	30.75	23.41
	1000		56.80	6.21	9.14	78.75
	1001		41.40	4.32	9.59	75.10
	1002		94.20	8.87	10.61	67.83
	1010		0.00	0.00	0.00	0.00
	1011	1010	47.98	2.11	22.74	15.14
	1020		0.00	0.00	0.00	0.00
	1022	1020	31.98	1.61	19.90	17.31
	1023	1020	0.00	0.00	0.00	0.00
	1030		36.18	1.83	19.76	16.53
	1031	1030	1.09	0.05	20.05	16.29
	1040		63.08	3.66	17.23	17.76
	1090		49.70	1.86	26.67	8.54
	1091		21.08	0.75	28.10	8.08

Link Results: Advanced

Time Segment	Link	Major link	Degree of saturation penalty (£ per hr)	Ped gap accepting penalty (£ per hr)	Warmed up	Mean Max Queue EoTS (PCU)	Mean End of Green Queue EoTS (PCU)	Mean End of Red Queue EoTS (PCU)	PCU Factor	Cost of traffic penalties (£ per hr)	Unweighted performance index (£ per hr)	Performance Index (£ per hr)
16:30-17:30	700		0.00	0.00	✓	5.66	0.55	5.33	1.00	0.00	37.72	6.72
	701		0.00	0.00	✓	6.01	0.55	5.04	1.00	0.00	37.58	6.67
	702		0.00	0.00	✓	6.25	0.55	5.37	1.00	0.00	39.67	7.04
	703		0.00	0.00	✓	6.46	0.63	6.09	1.00	0.00	43.83	7.82
	704		0.00	0.00	✓	0.28			1.00	0.00	3.99	3.99
	705		0.00	0.00	✓	0.96			1.00	0.00	4.87	4.87
	710		0.00	0.00	✓	6.79	0.31	2.96	1.00	0.00	0.00	0.00
	711	710	0.00	0.00					1.00	0.00	1.29	2.00
	712	710	0.00	0.00					1.00	0.00	19.34	35.41
	720		0.00	0.00	✓	5.03	0.56	3.27	1.00	0.00	5.77	7.56
	721	720	0.00	0.00					1.00	0.00	17.83	28.79
	730		0.00	0.00	✓	6.56	1.10	4.66	1.00	0.00	13.82	18.05
	731	730	0.00	0.00					1.00	0.00	19.60	31.34
	732	730	0.00	0.00					1.00	0.00	5.73	5.73
	790		0.00	0.00	✓	0.87			1.00	0.00	4.57	4.57
	791		0.00	0.00	✓	0.41			1.00	0.00	5.81	5.81
	792		0.00	0.00	✓	0.34			1.00	0.00	4.83	4.83
	800		0.00	0.00	✓	13.50	1.53	8.84	1.00	0.00	70.15	12.46
	801		0.00	0.00	✓	14.13	1.52	9.23	1.00	0.00	74.37	2.00
	802		0.00	0.00	✓	3.79	0.23	3.59	1.00	0.00	18.83	0.55
	803		0.00	0.00	✓	0.64			1.00	0.00	9.12	9.12
	810		0.00	0.00	✓	3.25	0.19	2.09	1.00	0.00	0.00	0.00
	811	810	0.00	0.00					1.00	0.00	0.21	0.33
	812	810	0.00	0.00					1.00	0.00	9.56	17.18
	820		0.00	0.00	✓	6.57	1.25	5.41	1.00	138.01	40.73	189.64
	821	820	0.00	0.00					1.00	0.00	0.76	1.26
	822	820	0.00	0.00					1.00	0.00	10.97	10.97
	890		0.00	0.00	✓	0.54			1.00	0.00	7.69	7.69
	891		0.00	0.00	✓	0.04			1.00	0.00	0.59	0.59
	900		0.00	0.00	✓	8.43	0.65	7.19	1.00	0.00	47.04	8.20
	901		0.00	0.00	✓	5.31	0.32	4.42	1.00	0.00	27.21	4.69
	902		0.00	0.00	✓	12.23	1.10	8.73	1.00	0.00	65.04	11.59
	903		0.00	0.00	✓	0.41			1.00	0.00	5.84	5.84
	910		0.00	0.00	✓	10.86	1.34	7.39	1.00	0.00	26.07	40.31
	911	910	0.00	0.00					1.00	0.00	32.88	48.18
	912	910	0.00	0.00					1.00	0.00	1.37	1.94
	920		0.00	0.00	✓	12.86	1.80	7.13	1.00	0.00	42.80	66.86
	921	920	0.00	0.00					1.00	0.00	22.57	22.57
	930		0.00	0.00	✓	4.66	0.35	2.71	1.00	0.00	17.02	17.02
	931	930	0.00	0.00					1.00	0.00	0.00	0.00
	990		0.00	0.00	✓	0.57			1.00	0.00	8.09	8.09
	991		0.00	0.00	✓	0.04			1.00	0.00	0.58	0.58
	1000		0.00	0.00	✓	5.41	0.60	4.78	1.00	0.00	35.30	6.89
	1001		0.00	0.00	✓	3.63	0.29	3.34	1.00	0.00	22.70	4.42
	1002		0.00	0.00	✓	11.14	2.50	9.43	1.00	0.00	88.34	16.29
	1010		0.00	0.00	✓	8.44	0.33	1.94	1.00	53.37	0.00	53.37
	1011	1010	0.00	0.00					1.00	0.00	12.92	12.92
	1020		0.00	0.00	✓	5.39	0.18	3.56	1.00	0.00	0.00	0.00
	1022	1020	0.00	0.00					1.00	0.00	12.22	26.57
	1023	1020	0.00	0.00					1.00	0.00	0.00	0.00
	1030		0.00	0.00	✓	2.04	0.21	2.02	1.00	0.00	11.32	16.82
	1031	1030	0.00	0.00					1.00	0.00	0.39	0.82
	1040		0.00	0.00	✓	4.02	0.58	4.01	1.00	0.00	27.36	40.82

	1090		0.00	0.00	✓	2.03			1.00	0.00	4.86	4.86
	1091		0.00	0.00	✓	0.09			1.00	0.00	1.30	1.30

Collections

Point to Point Journey Time

Average Journey Time (s) for Local Matrix: 1

	To			
	A	B	C	D
From A	0.0	59.9	0.0	156.0
From B	99.5	128.4	69.1	106.0
From C	0.0	93.5	143.4	67.2
From D	87.3	102.7	135.7	193.3

Path Journey Time

Path	From Location	To Location	Normal Calculated Flow (PCU/hr)	Normal journey time (s)	Normal journey dist (m)	Bus journeydist (m)	Tram journey dist (m)	Pedestrian journey dist (m)	Calculated Total Flow (PCU/hr)	Avg journey time (s)	Avg journey dist (m)
15	B	C	798	69.08	400.00	400.00	400.00	400.00	798	69.08	400.00
17	D	B	0	89.43	392.06	392.06	392.06	392.06	0	0.00	1568.24
18	D	A	284	87.29	263.28	263.28	263.28	263.28	284	87.29	263.28
20	D	B	207	104.44	389.18	389.18	389.18	389.18	207	104.44	389.18
21	A	C	0	73.29	483.00	483.00	483.00	483.00	0	0.00	1932.00
22	A	B	377	59.58	282.87	282.87	282.87	282.87	377	59.58	282.87
23	A	D	241	156.19	643.13	643.13	643.13	643.13	241	156.19	643.13
25	D	D	9	193.30	747.44	747.44	747.44	747.44	9	193.30	747.44
26	D	B	138	100.03	387.18	387.18	387.18	387.18	138	100.03	387.18
27	A	B	351	59.98	282.17	282.17	282.17	282.17	351	59.98	282.17
28	A	B	352	60.02	282.17	282.17	282.17	282.17	352	60.02	282.17
29	D	C	130	139.71	584.54	584.54	584.54	584.54	130	139.71	584.54
51	C	B	399	94.90	474.19	474.19	474.19	474.19	399	94.90	474.19
52	C	C	2	143.39	672.46	672.46	672.46	672.46	2	143.39	672.46
53	C	B	342	97.26	472.19	472.19	472.19	472.19	342	97.26	472.19
58	D	C	194	133.08	587.45	587.45	587.45	587.45	194	133.08	587.45
68	B	B	12	128.45	641.55	641.55	641.55	641.55	12	128.45	641.55
69	B	A	334	91.00	517.51	517.51	517.51	517.51	334	91.00	517.51
70	B	D	0	104.94	558.76	558.76	558.76	558.76	0	0.00	2235.04
71	B	A	502	105.21	517.72	517.72	517.72	517.72	502	105.21	517.72
73	A	D	160	155.79	638.99	638.99	638.99	638.99	160	155.79	638.99
74	A	A	0	91.02	597.74	597.74	597.74	597.74	0	0.00	2390.96
75	C	A	0	47.76	358.75	358.75	358.75	358.75	0	0.00	1435.00
76	C	B	399	88.99	482.79	482.79	482.79	482.79	399	88.99	482.79
77	C	A	0	48.22	358.96	358.96	358.96	358.96	0	0.00	1435.84
78	C	D	575	67.15	400.00	400.00	400.00	400.00	575	67.15	400.00
79	B	D	312	106.00	562.90	562.90	562.90	562.90	312	106.00	562.90
80	B	C	27	68.52	400.00	400.00	400.00	400.00	27	68.52	400.00

Final Prediction Table

Link Results

	SIGNALS	FLOWS	PERFORMANCE	PER PCU	QUEUES
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Link	Name	Major link	Traffic node	Controller stream	Phase	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual green (s (per cycle))	Wasted time total (s (per cycle))	Degree of saturation (%)	Practical reserve capacity (%)	JourneyTime (s)	Mean Delay per Veh (s)	Mean stops per Veh (%)	Mean max queue (PCU)	Mean end of red queue (PCU)
700			7	7	C	352	1957	23	0.00	52	72	28.70	24.20	82.56	5.66	5.33
701			7	7	C	351	1954	23	0.00	52	72	28.56	24.06	84.79	6.01	5.04
702			7	7	C	377	2097	23	0.00	52	72	28.16	23.66	83.53	6.25	5.37
703			7	7	C	401	2097	23	0.00	56	61	29.22	24.72	82.69	6.46	6.09
704			7			703	1954	70	0.00	36	150	20.64	1.44	0.00	0.28	
705			7			778	2097	70	2.19	38	135	20.67	1.47	3.80	0.96	
710		(710)	7	7	D	0	2088	35	12.00	38	135	0.00	0.00	0.00	6.79	2.96
711		710				12						35.86	23.50	103.32		
712		710				399						22.10	9.74	70.65		
720		(720)	7	7	D	207	2231	35	0.00	53	71	18.56	6.52	15.13	5.03	3.27
721		720				398						21.64	9.60	48.20		
730		(730)	7	7	D	333	2299	35	0.00	69	31	21.45	9.72	22.23	6.56	4.66
731		730				344						24.03	12.30	59.89		
732		730				138						21.45	9.72	22.23		
790			7			763	2010	70	12.00	38	137	10.69	1.44	2.07	0.87	
791			7			957	2124	70	0.00	45	100	10.79	1.54	0.00	0.41	
792			7			857	2115	70	0.00	40	122	10.75	1.43	0.00	0.34	
800			8	8	A	798	2001	36	0.00	75	19	44.62	19.79	84.03	13.49	8.83
801			8	8	A	841 <	2110	36	0.00	75	19	23.92	19.42	83.19	14.13 +	9.22
802			8	8	A	346	2110	36	0.00	31	190	16.26	11.76	56.13	3.78	3.59
803			8			1187	2110	70	27.00	56	60	21.15	1.95	0.00	0.64	
810		(810)	8	8	B	0	2182	22	10.00	27	229	0.00	0.00	0.00	3.25	2.09
811		810				2						32.42	23.07	104.28		
812		810				194						19.34	9.98	68.65		
820		(820)	8	8	B	401	2295	22	0.00	72	26	33.06	24.03	47.60	6.56	5.40
821		820				9						26.98	17.95	96.78		
822		820				130						26.98	17.95	96.78		
890			8			994	1911	70	0.00	52	73	24.46	1.96	0.00	0.54	
891			8			157	2042	70	23.00	8	1070	23.45	0.95	0.00	0.04	
900			9	9	A	575	2158	32	0.00	57	59	29.33	18.08	73.45	8.43	7.19
901			9	9	A	399	2158	32	0.00	39	130	26.16	14.91	66.01	5.31	4.42
902			9	9	A	742	2287	32	0.00	69	31	44.71	19.80	82.23	12.23	8.72
903			9			974	2158	70	0.00	45	99	13.52	1.52	0.00	0.41	
910		(910)	9	9	B	312	1995	26	0.00	73	23	36.63	18.30	79.96	10.85	7.38
911		910				241						48.94	30.61	111.45		
912		910				9						52.74	34.41	111.75		
920		(920)	9	9	B	501	2187	26	0.00	78	15	36.46	18.60	84.09	12.84	7.12
921	(untitled)	920				160						49.44	31.57	113.06		
930	(untitled)	(930)	9	9	B	346	2187	26	0.00	41	119	28.21	10.35	58.35	4.66	2.71
931		930				0						0.00	0.00	0.00		
990			9			1137	2133	70	0.00	53	69	24.30	1.80	0.00	0.57	
991	(untitled)		9			160	2133	70	45.00	8	1097	23.41	0.91	0.00	0.04	
1000			10	10	A	284	2139	16	0.00	55	65	78.75	30.75	96.27	5.41	4.78
1001			10	10	A	207	2317	16	0.00	37	145	75.10	27.10	88.99	3.63	3.34
1002			10	10	A	471	2317	16	0.00	84	8	67.83	43.83	117.06	11.07	9.37
1010	(untitled)	(1010)	10	10	B	0	2071	42	17.00	39	128	0.00	0.00	0.00	8.44	1.94
1011	(untitled)	1010				501						15.14	4.38	59.49		
1020		(1020)	10	10	B	0	2071	42	19.00	26	243	0.00	0.00	0.00	5.39	3.56
1022		1020				334						17.31	6.55	75.23		
1023	(untitled)	1020				0						0.00	0.00	0.00		
1030		(1030)	10	10	B	399	2247	42	19.00	30	202	16.53	6.32	24.19	2.04	2.02
1031		1030				12						16.29	6.08	62.29		
1040			10	10	B	742	2253	42	16.00	54	68	17.76	8.20	31.80	4.01	4.01
1090			10			785	2051	70	19.00	38	135	8.54	1.42	4.07	2.03	

1091			10			334	2164	70	43.00	15	483	8.08	0.98	0.00	0.09
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Network Results

	Distance travelled (PCU-km/hr)	Time spent (PCU-hr/hr)	Mean journey speed (kph)	Uniform delay (PCU-hr/hr)	Random plus oversat delay (PCU-hr/hr)	Weighted cost of delay (£ per hr)	Weighted cost of stops (£ per hr)	Excess queue penalty (£ per hr)	Performance Index (£ per hr)
Normal traffic	2687.88	153.71	17.49	40.55	23.38	456.29	206.23	191.38	853.90
Bus									
Tram									
Pedestrians									
TOTAL	2687.88	153.71	17.49	40.55	23.38	456.29	206.23	191.38	853.90

- | < = adjusted flow warning (upstream links/traffic streams are over-saturated)
- | * = Traffic Stream - Normal, Bus or Tram Stop or Delay weighting has been set to a value other than 100%
- | ^ = Traffic Stream - Normal, Bus or Tram Stop or Delay Path weighting has been set to a value other than 100%
- | + = average link/traffic stream excess queue is greater than 0
- | P.I. = PERFORMANCE INDEX

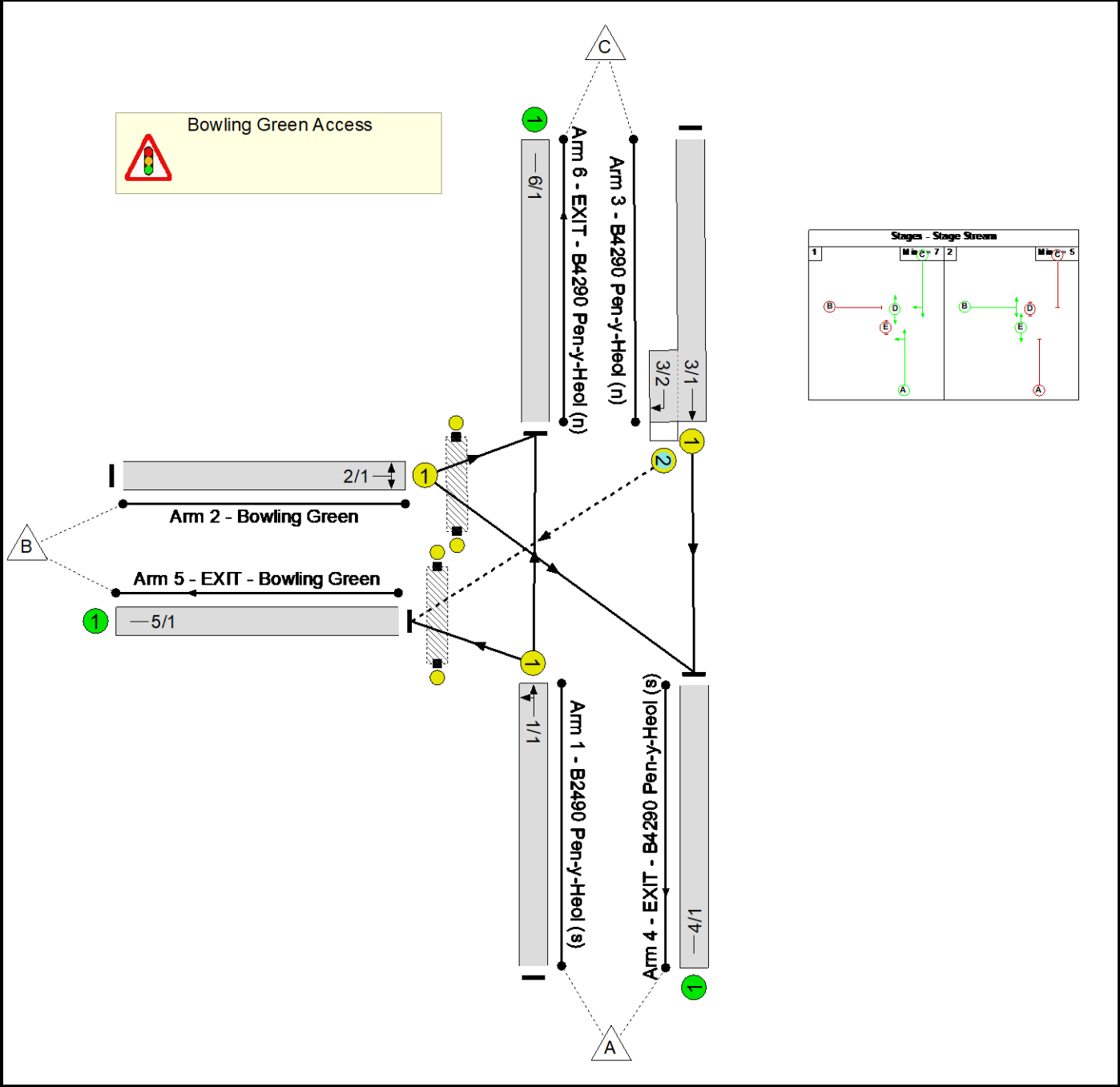
Appendix I. LinSig Model Outputs

Full Input Data And Results

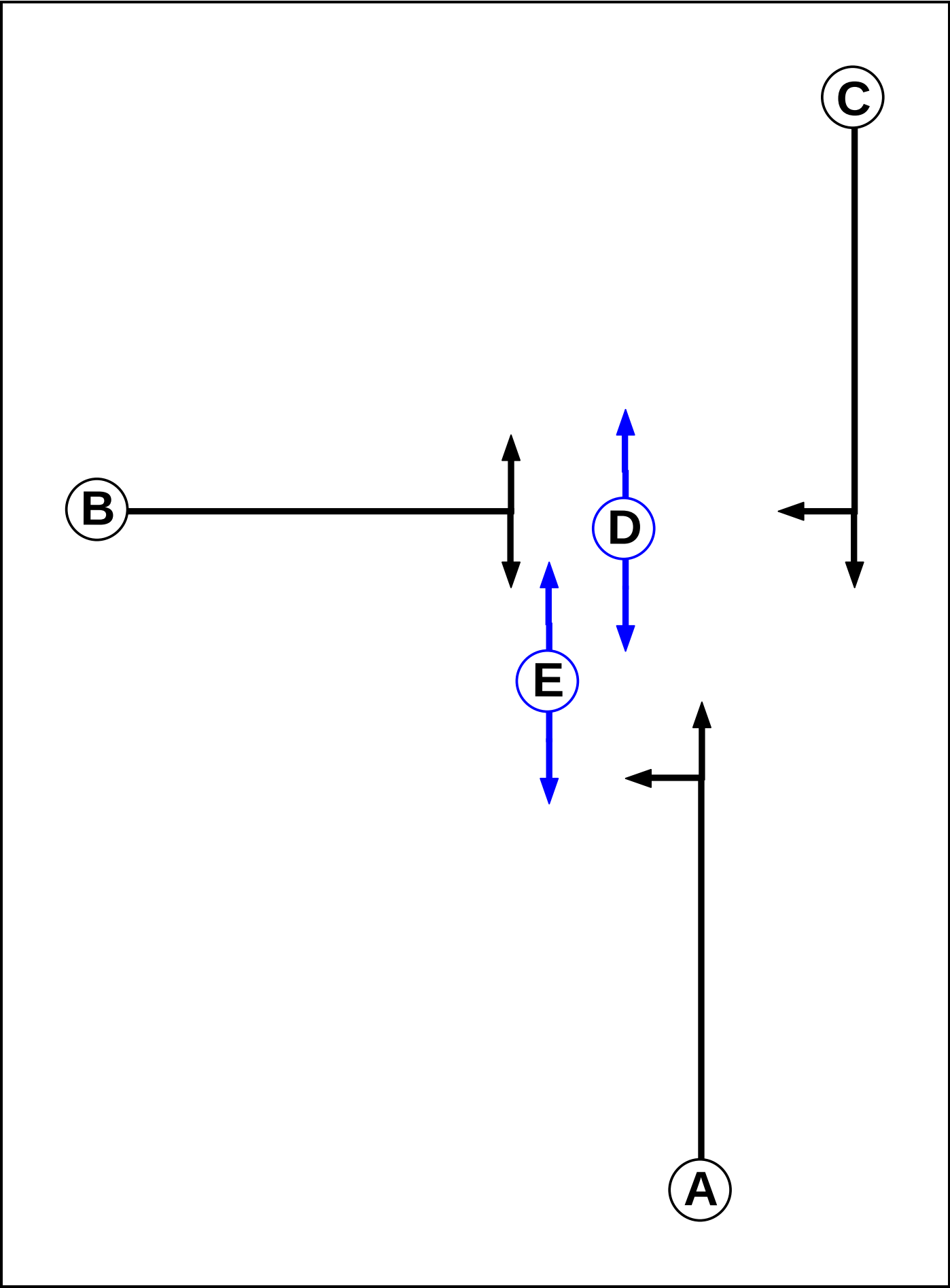
User and Project Details

Project:	Coed Darcy
Title:	Bowling Green Access (Norther Site Access)
Location:	
Checked By:	HP
Additional detail:	
File name:	Coed Darcy - Northern Site Access - Signalised_v1.lsg3x
Author:	Damian Murray
Company:	Atkins
Address:	71 Old Channel Road, Belfast, BT3 9DE

Network Layout Diagram



Phase Diagram



Full Input Data And Results

Phase Input Data

Phase Name	Phase Type	Stage Stream	Assoc. Phase	Street Min	Cont Min
A	Traffic	1		7	7
B	Traffic	1		7	7
C	Traffic	1		7	7
D	Pedestrian	1		4	4
E	Pedestrian	1		4	4

Phase Intergreens Matrix

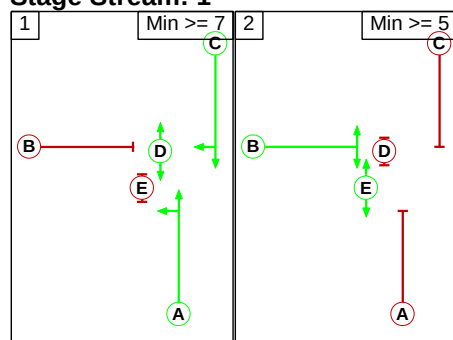
		Starting Phase					
Terminating Phase		A	B	C	D	E	
	A		6	-	-	7	
	B	5		5	5	-	
	C	-	5		-	8	
	D	-	6	-		-	
	E	5	-	5	-		

Phases in Stage

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

Stage Diagram

Stage Stream: 1



Phase Delays

Stage Stream: 1

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

Prohibited Stage Change

Stage Stream: 1

		To Stage	
From Stage		1	2
	1		8
	2	5	

Full Input Data And Results

Full Input Data And Results

Give-Way Lane Input Data

Junction: Bowling Green Access											
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)
3/2 (B4290 Pen-y-Heol (n))	5/1 (Right)	1439	0	1/1	1.09	All	1.00	-	0.50	1	2.00

Full Input Data And Results

Lane Input Data

Junction: Bowling Green Access												
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 (B2490 Pen-y-Heol (s))	U	A	2	3	34.8	Geom	-	3.50	0.00	Y	Arm 5 Left	11.00
											Arm 6 Ahead	Inf
2/1 (Bowling Green)	U	B	2	3	60.0	Geom	-	3.65	0.00	Y	Arm 4 Right	16.00
											Arm 6 Left	12.00
3/1 (B4290 Pen-y-Heol (n))	U	C	2	3	60.0	Geom	-	3.00	0.00	Y	Arm 4 Ahead	Inf
3/2 (B4290 Pen-y-Heol (n))	O	C	2	3	3.8	Geom	-	2.50	0.00	Y	Arm 5 Right	11.50
4/1 (EXIT - B4290 Pen-y-Heol (s))	U		2	3	60.0	Inf	-	-	-	-	-	-
5/1 (EXIT - Bowling Green)	U		2	3	60.0	Inf	-	-	-	-	-	-
6/1 (EXIT - B4290 Pen-y-Heol (n))	U		2	3	60.0	Inf	-	-	-	-	-	-

Traffic Flow Groups

Flow Group	Start Time	End Time	Duration	Formula
1: '2026 Base + HG(140) + Coed Darcy AM'	07:45	08:45	01:00	
2: '2026 Base + HG(140) + Coed Darcy PM'	16:30	17:30	01:00	

Scenario 1: '2026 Base + HG(140) + Coed Darcy AM' (FG1: '2026 Base + HG(140) + Coed Darcy AM', Plan 1: 'Proposed')

Traffic Flows, Desired

Desired Flow :

	Destination				
Origin		A	B	C	Tot.
	A	0	66	260	326
	B	173	0	15	188
	C	491	6	0	497
	Tot.	664	72	275	1011

Traffic Lane Flows

Lane	Scenario 1: 2026 Base + HG(140) + Coed Darcy AM
Junction: Bowling Green Access	
1/1	326
2/1	188
3/1 (with short)	497(In) 491(Out)
3/2 (short)	6
4/1	664
5/1	72
6/1	275

Lane Saturation Flows

Junction: Bowling Green Access								
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 (B2490 Pen-y-Heol (s))	3.50	0.00	Y	Arm 5 Left	11.00	20.2 %	1912	1912
				Arm 6 Ahead	Inf	79.8 %		
2/1 (Bowling Green)	3.65	0.00	Y	Arm 4 Right	16.00	92.0 %	1806	1806
				Arm 6 Left	12.00	8.0 %		
3/1 (B4290 Pen-y-Heol (n))	3.00	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1915	1915
3/2 (B4290 Pen-y-Heol (n))	2.50	0.00	Y	Arm 5 Right	11.50	100.0 %	1650	1650
4/1 (EXIT - B4290 Pen-y-Heol (s) Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (EXIT - Bowling Green Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (EXIT - B4290 Pen-y-Heol (n) Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 2: '2026 Base + HG(140) + Coed Darcy PM' (FG2: '2026 Base + HG(140) + Coed Darcy PM', Plan 1: 'Proposed')

Traffic Flows, Desired

Desired Flow :

Origin	Destination				
		A	B	C	Tot.
	A	0	165	443	608
	B	73	0	6	79
	C	372	14	0	386
	Tot.	445	179	449	1073

Traffic Lane Flows

Lane	Scenario 2: 2026 Base + HG(140) + Coed Darcy PM
Junction: Bowling Green Access	
1/1	608
2/1	79
3/1 (with short)	386(In) 372(Out)
3/2 (short)	14
4/1	445
5/1	179
6/1	449

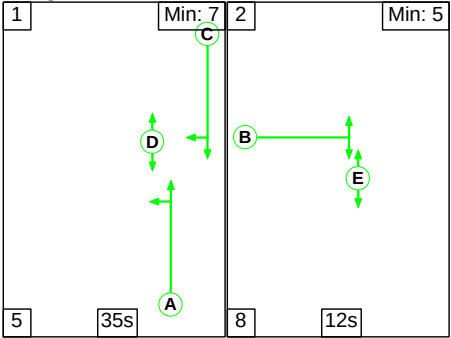
Lane Saturation Flows

Junction: Bowling Green Access								
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 (B2490 Pen-y-Heol (s))	3.50	0.00	Y	Arm 5 Left	11.00	27.1 %	1895	1895
				Arm 6 Ahead	Inf	72.9 %		
2/1 (Bowling Green)	3.65	0.00	Y	Arm 4 Right	16.00	92.4 %	1806	1806
				Arm 6 Left	12.00	7.6 %		
3/1 (B4290 Pen-y-Heol (n))	3.00	0.00	Y	Arm 4 Ahead	Inf	100.0 %	1915	1915
3/2 (B4290 Pen-y-Heol (n))	2.50	0.00	Y	Arm 5 Right	11.50	100.0 %	1650	1650
4/1 (EXIT - B4290 Pen-y-Heol (s) Lane 1)	Infinite Saturation Flow						Inf	Inf
5/1 (EXIT - Bowling Green Lane 1)	Infinite Saturation Flow						Inf	Inf
6/1 (EXIT - B4290 Pen-y-Heol (n) Lane 1)	Infinite Saturation Flow						Inf	Inf

Scenario 1: '2026 Base + HG(140) + Coed Darcy AM' (FG1: '2026 Base + HG(140) + Coed Darcy AM', Plan 1: 'Proposed')

Stage Sequence Diagram

Stage Stream: 1

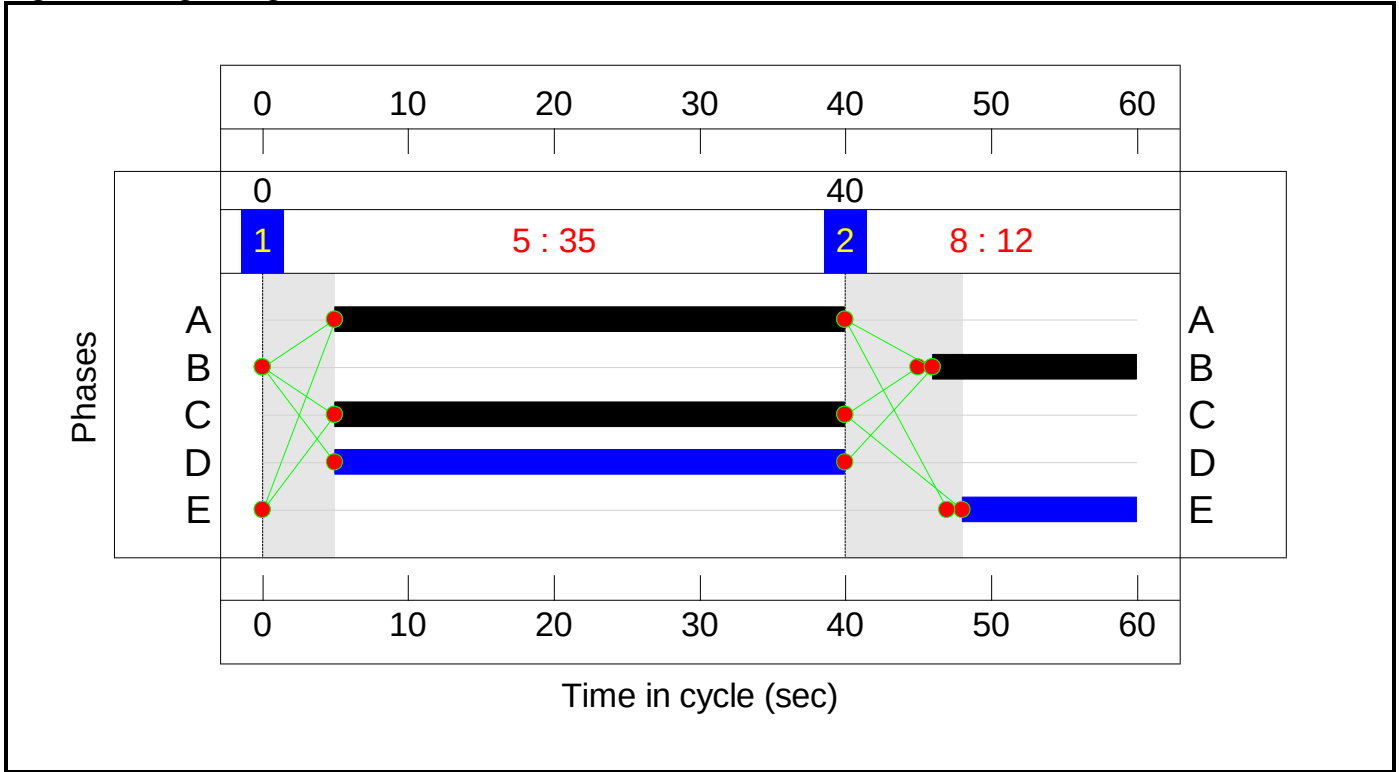


Stage Timings

Stage Stream: 1

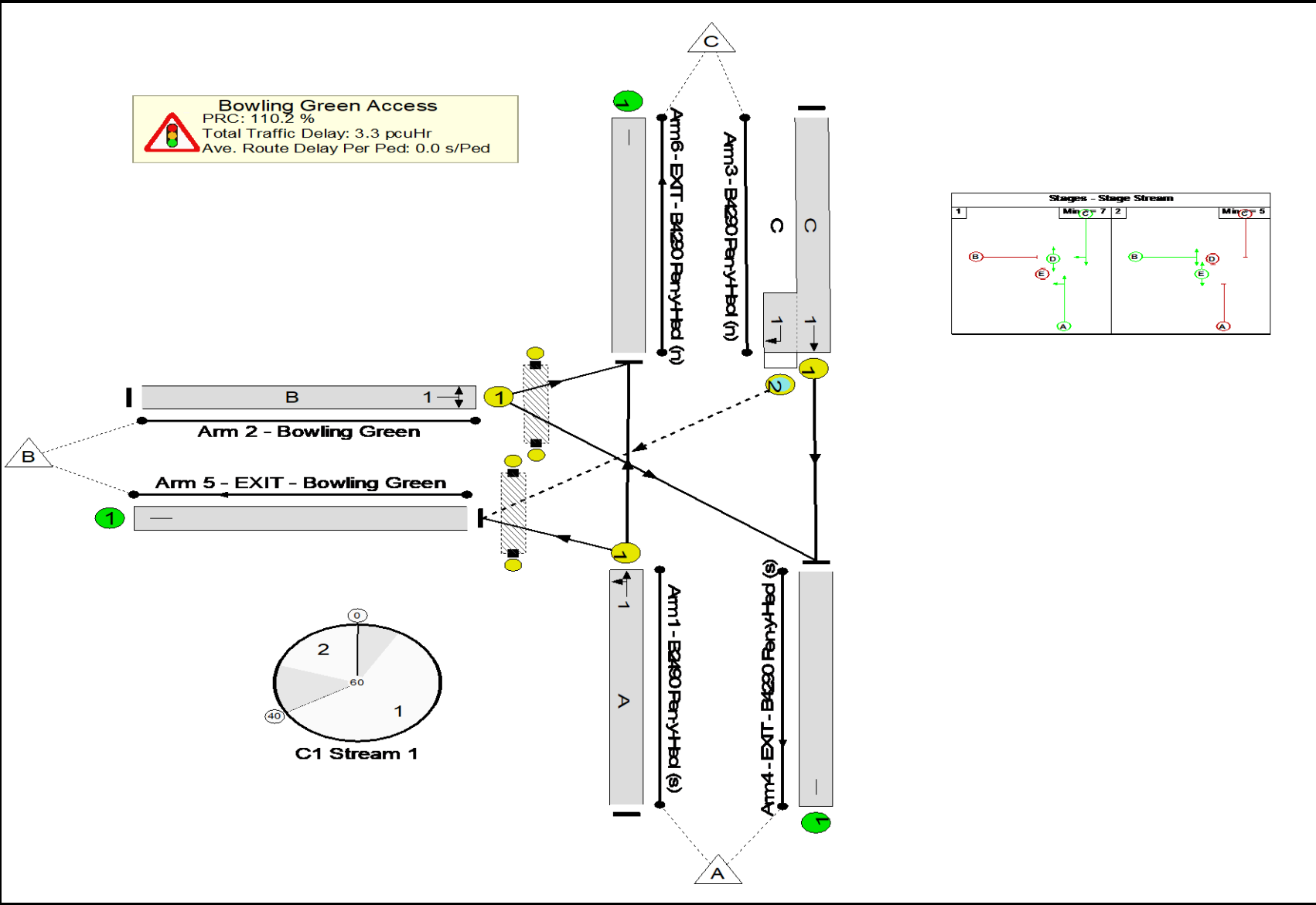
Stage	1	2
Duration	35	12
Change Point	0	40

Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram



Full Input Data And Results

Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Bowling Green Access (Norther Site Access)	-	-	N/A	-	-		-	-	-	-	-	-	42.8%
Bowling Green Access	-	-	N/A	-	-		-	-	-	-	-	-	42.8%
1/1	B2490 Pen-y-Heol (s) Left Ahead	U	1	N/A	A		1	35	-	326	1912	1147	28.4%
2/1	Bowling Green Right Left	U	1	N/A	B		1	14	-	188	1806	452	41.6%
3/1+3/2	B4290 Pen-y-Heol (n) Ahead Right	U+O	1	N/A	C		1	35	-	497	1915:1650	1147+14	42.8 : 42.8%
4/1	EXIT - B4290 Pen-y-Heol (s)	U	N/A	N/A	-		-	-	-	664	Inf	Inf	0.0%
5/1	EXIT - Bowling Green	U	N/A	N/A	-		-	-	-	72	Inf	Inf	0.0%
6/1	EXIT - B4290 Pen-y-Heol (n)	U	N/A	N/A	-		-	-	-	275	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	1	-	D		1	35	-	0	-	0	0.0%
Ped Link: P2	Unnamed Ped Link	-	1	-	E		1	12	-	0	-	0	0.0%

Full Input Data And Results

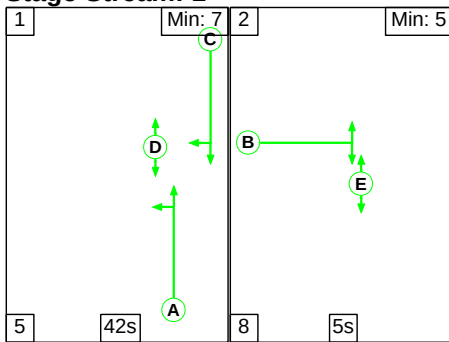
Item	Arriving (pcu)	Leaving (pcu)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Uniform Delay (pcuHr)	Rand + Oversat Delay (pcuHr)	Storage Area Uniform Delay (pcuHr)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Max. Back of Uniform Queue (pcu)	Rand + Oversat Queue (pcu)	Mean Max Queue (pcu)
Network: Bowling Green Access (Norther Site Access)	-	-	6	0	0	2.4	0.9	0.0	3.3	-	-	-	-
Bowling Green Access	-	-	6	0	0	2.4	0.9	0.0	3.3	-	-	-	-
1/1	326	326	-	-	-	0.5	0.2	-	0.7	8.0	2.5	0.2	2.7
2/1	188	188	-	-	-	1.0	0.4	-	1.3	25.7	2.6	0.4	3.0
3/1+3/2	497	497	6	0	0	0.9	0.4	0.0	1.3	9.2	4.4	0.4	4.7
4/1	664	664	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	72	72	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	275	275	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-
Ped Link: P2	0	0	-	-	-	-	-	-	-	-	-	-	-
C1 Stream: 1 PRC for Signalled Lanes (%): 110.2 Total Delay for Signalled Lanes (pcuHr): 3.33 Cycle Time (s): 60 PRC Over All Lanes (%): 110.2 Total Delay Over All Lanes(pcuHr): 3.33													

Full Input Data And Results

Scenario 2: '2026 Base + HG(140) + Coed Darcy PM' (FG2: '2026 Base + HG(140) + Coed Darcy PM', Plan 1: 'Proposed')

Stage Sequence Diagram

Stage Stream: 1

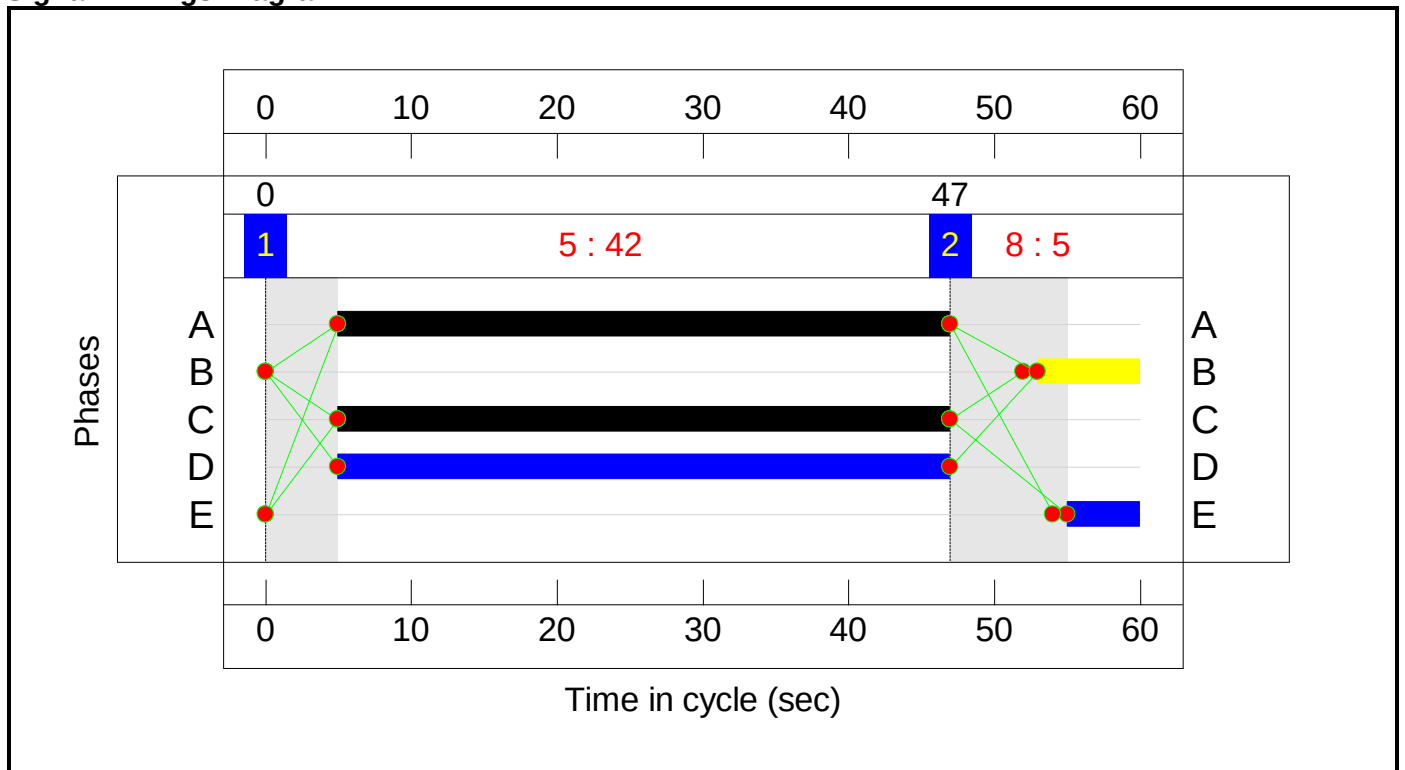


Stage Timings

Stage Stream: 1

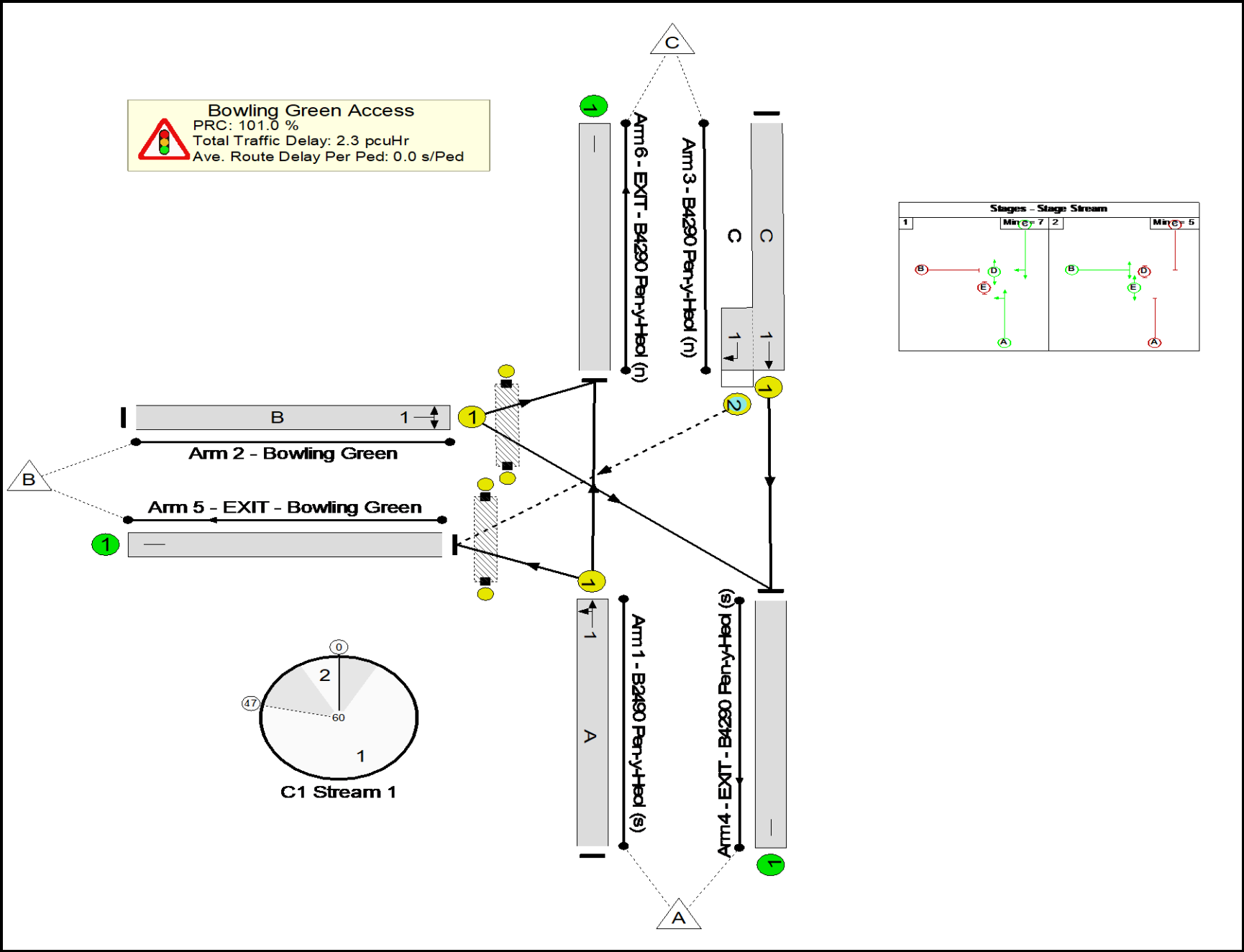
Stage	1	2
Duration	42	5
Change Point	0	47

Signal Timings Diagram



Full Input Data And Results

Network Layout Diagram



Full Input Data And Results

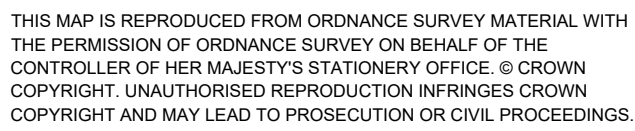
Network Results

Item	Lane Description	Lane Type	Controller Stream	Position In Filtered Route	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)
Network: Bowling Green Access (Norther Site Access)	-	-	N/A	-	-		-	-	-	-	-	-	44.8%
Bowling Green Access	-	-	N/A	-	-		-	-	-	-	-	-	44.8%
1/1	B2490 Pen-y-Heol (s) Left Ahead	U	1	N/A	A		1	42	-	608	1895	1358	44.8%
2/1	Bowling Green Right Left	U	1	N/A	B		1	7	-	79	1806	241	32.8%
3/1+3/2	B4290 Pen-y-Heol (n) Ahead Right	U+O	1	N/A	C		1	42	-	386	1915:1650	1335+50	27.9 : 27.9%
4/1	EXIT - B4290 Pen-y-Heol (s)	U	N/A	N/A	-		-	-	-	445	Inf	Inf	0.0%
5/1	EXIT - Bowling Green	U	N/A	N/A	-		-	-	-	179	Inf	Inf	0.0%
6/1	EXIT - B4290 Pen-y-Heol (n)	U	N/A	N/A	-		-	-	-	449	Inf	Inf	0.0%
Ped Link: P1	Unnamed Ped Link	-	1	-	D		1	42	-	0	-	0	0.0%
Ped Link: P2	Unnamed Ped Link	-	1	-	E		1	5	-	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: Bowling Green Access (Norther Site Access)	-	-	14	0	0	1.4	0.8	0.0	2.3	-	-	-	-
Bowling Green Access	-	-	14	0	0	1.4	0.8	0.0	2.3	-	-	-	-
1/1	608	608	-	-	-	0.6	0.4	-	1.0	5.9	4.2	0.4	4.6
2/1	79	79	-	-	-	0.5	0.2	-	0.8	34.7	1.2	0.2	1.4
3/1+3/2	386	386	14	0	0	0.3	0.2	0.0	0.5	4.9	2.2	0.2	2.4
4/1	445	445	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
5/1	179	179	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
6/1	449	449	-	-	-	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0
Ped Link: P1	0	0	-	-	-	-	-	-	-	-	-	-	-
Ped Link: P2	0	0	-	-	-	-	-	-	-	-	-	-	-
C1 Stream: 1 PRC for Signalled Lanes (%): 101.0 Total Delay for Signalled Lanes (pcuHr): 2.29 Cycle Time (s): 60 PRC Over All Lanes (%): 101.0 Total Delay Over All Lanes(pcuHr): 2.29													

Appendix J. M4 Junction 43 Proposed Highway Mitigation Design



 Ordnance Survey Data
 Proposed Road Alignment
 Proposed Road Markings

Statement for Regulation 11 of the Construction (Design and Management) Regulations 2007

"Risks where information is available at feasibility stage have been taken into account in preparation of this indicative design. Progress towards detailed design and possible revisions to the feasibility stage design are subject to further information and associated risk assessment."

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:
CONSTRUCTION
NONE
MAINTENANCE/CLEANING
NONE
DECOMMISSIONING/DEMOLITION
NONE
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

P1								
Rev.	Date	Description	By	Chk'd	App'd			

Drawing Status		Suitability		Project Title					
FOR INFORMATION		SO		COED DARCY					
 The AXIS 10, Holliday Street Birmingham West Midlands B1 1TF Tel: +44 (0)121 483 5000 Fax: +44 (0)121 483 5252 www.atkinsglobal.com Copyright © Atkins Limited (2021)				Drawing Title					
				M4 J43 PHASE I (NAR) & PHASE II IMPROVEMENTS					
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A1									
Client				Drawing Number		Project Ref. No.			
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