TRANSYT 15

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Filename: M62 JN 28 CRF Scheme_Mar 20- Scenario 2a - AM + LCC Scheme.t15
Path: Z:\Projects\10127ITM Capitol Park, Leeds F2 (F1A)\Tech\Transyt\TRANSYT - AGREED HE_LCC BASE MODEL (MARCH 2020)\Post-Submission Work\2033 Sensitivity Test
Report generation date: 23/07/2021 08:35:33

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File summary

File description

File title	(untitled)
Location	
Site number	
UTCRegion	
Driving side	Left
Date	01/03/2017
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	LEEDS\00730414
Description	

Model and Results

Enable controller offsets	Enable fuel consumption	Enable quick flares	Display journey time results	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

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	✓

Network Diagrams

A1 - 2033 Base + Committed AM + LCC Scheme
D1 - 2033 Base + Committed AM + LCC Scheme*

Summary

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Traffic Stream Data	Arm Bf - Traffic Stream 1	Arm Bf - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Bf - Traffic Stream 2	Arm Bf - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Ff - Traffic Stream 1	Arm Ff - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Ff - Traffic Stream 2	Arm Ff - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm xA - Traffic Stream 1	Arm xA - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm xA - Traffic Stream 2	Arm xA - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm TC38 - Traffic Stream 1	Traffic Stream 1: CTM uses a whole number of cells. CTM is using the length adjusted by 30%.
Warning	Traffic Stream Signals	Arm TC42 - Traffic Stream 1 - Signals (TC777-1, E)	Traffic Stream 1 controlling phase E never runs in the current stage sequence.
Info	Arm Data	Arm xC	No traffic node specified for arm(s): xC
Info	Traffic Stream Signals	Arm TC42 - Traffic Stream 1 - Signals (TC777-1, E)	Traffic Stream 1 controlling phase E never runs in stage sequence 1.

Run Summary

Analysis set used	Run start time	Run finish time	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	Ite wit wor over PR
1	23/07/2021 08:34:30	23/07/2021 08:34:46	07:30	120	9140.10	586.70	125.19	52/1	15	10	TC42/1	48/1	TC4

Analysis Set Details

Name	Description	Demand set	Include in report	Locked
2033 Base + Committed AM + LCC Scheme		D1	✓	

Demand Set Details

Name	Description	Composite	Demand sets	Start time (HH:mm)	Locked
2033 Base + Committed AM + LCC Scheme				07:30	

Network Options

Network timings

Network cycle time (s)	Restrict to SCOOT cycle times	Time segment length (min)	Number of time segments	Modelled time period (min)
120		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)
10000.00	10000.00	10000.00	2

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 results calculation	Random delay mode	Type of Vehicle-in-Service	Type of random parameter	PCU Length (m)	Calculate results for Path Segments	Generate PDM Profile Data
1	90	100	✓	✓		Complex	Uniform (TRANSYT)	Uniform (TRANSYT)	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])	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms^[-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
			✓

Advanced

Optimisation type	Hill climb increments	OUTProfile accuracy	Use enhanced optimisation	Auto optimisation order	Optimisation order	Master controller	Offsets relative to master controller	Master controller offset after each run
				✓				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
1	(untitled)	
2	(untitled)	
3	(untitled)	
4	(untitled)	
5	(untitled)	
6	(untitled)	
10	(untitled)	
11	Dewsbury Road (south) Bus Gate	
12	(untitled)	
13	(untitled)	
3-2	(untitled)	
4-2	(untitled)	
TC771-6	(untitled)	

Arms and Traffic Streams

Arms

Arm	Name	Description	Traffic node
A	Dewsbury Rd SB		6
Ac	(untitled)		6
Acf	(untitled)		6
Af	Dewsbury Rd SB		6
B	M62 WB off slip		1
Bc	(untitled)		1
Bcf	(untitled)		1
Bf	M62 WB off slip		1
C	Bradford Rd WB		2
Cf	Bradford Rd WB		2
D	Dewsbury Rd NB		3
Dc	(untitled)		3
Dcf	(untitled)		3
Df	Dewsbury Rd NB		3-2
Dxp	Dewsbury Rd exit SB (ped)		3-2
Ec	(untitled)		4
Ecf	(untitled)		4
Ef	Bradford Rd EB		4
Exp	Bradford Rd exit WB (ped)		4-2
F	M62 EB off slip		5
Fc	(untitled)		5
Ff	M62 EB off slip		5
G	(untitled)		2
Gf	(untitled)		4
xA	Dewsbury Rd exit NB		10
xB	M62 EB on slip		
xC	(untitled)		
xD	Dewsbury Rd exit SB		
xE	Bradford Rd exit WB		
xF	M62 WB on slip		
Cc1	(untitled)		2
E1	Bradford Rd EB (left)		4
Gf1	(untitled)		4
Cc2	(untitled)		2
E2	Bradford Rd EB (ahead)		4
TC5	(untitled)		TC771-6
TC9	(untitled)		TC771-6
TC35	(untitled)		TC771-6
TC36	(untitled)		TC771-6
TC37	(untitled)		TC771-6
TC38	(untitled)		TC771-6
TC39	(untitled)		TC771-6
TC40	(untitled)		TC771-6
TC41	(untitled)		TC771-6
TC42	(untitled)		TC771-6
TC43	(untitled)		
47	(untitled)		2
48	(untitled)		2
49	(untitled)		TC771-6
50	(untitled)		1
51	(untitled)		4-2
52			3-2
53			TC771-6
54			6
55			4

Traffic Streams

Arm	Traffic Stream	Name	Description	Auto length	Length (m)	Has Saturation Flow	Saturation flow source	Saturation flow (PCU/hr)	Auto-calculate cell saturation flow	Cell saturation flow (PCU/hr)	Is signal controlled	Is give way	Traffic type	Allow Nearside Turn On Red
A	1	(untitled)	M62E	✓	74.52	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.88	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.61	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.35	✓	Directly entered	2050		2050	✓		Normal	
Ac	1	(untitled)	M62E	✓	95.80	✓	Directly entered	2263		2263	✓		Normal	
	2	(untitled)	Wake	✓	92.34	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Dews/Brad	✓	87.95	✓	Directly entered	2263		2263	✓		Normal	
Acf	1	(untitled)		✓	69.59	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	70.42	✓	Directly entered	2263		2263			Normal	
Af	1	(untitled)	M62E/Wake	✓	54.74	✓	Directly entered	2050		2050			Normal	
	2	(untitled)	Dews	✓	54.70	✓	Directly entered	2050		2050			Normal	
	3	(untitled)	Brad/M62W	✓	54.88	✓	Directly entered	2050		2050			Normal	
B	1	(untitled)	Wake/Dews	✓	94.67	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Brad	✓	97.18	✓	Directly entered	2150		2150	✓		Normal	
	3	(untitled)	Leeds	✓	99.69	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)		✓	102.42	✓	Directly entered	2050		2050	✓		Normal	
Bc	1	(untitled)	Wake	✓	132.85	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Dews	✓	131.47	✓	Directly entered	2050		2263	✓		Normal	
	3	(untitled)	Brad/M62W	✓	130.10	✓	Directly entered	2050		2050	✓		Normal	
Bcf	1	(untitled)		✓	62.67	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	63.14	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.35	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.25	✓	Directly entered	2263		2050			Normal	
Bf	1	(untitled)		✓	227.81	✓	Sum of lanes	1800		1600			Normal	
	2	(untitled)		✓	228.44	✓	Sum of lanes	1800		1700			Normal	
C	1	(untitled)	Dews/Brad	✓	121.13	✓	Directly entered	2100		2050	✓		Normal	
	2	(untitled)	M62W/Brad/Leeds	✓	122.36	✓	Directly entered	2200		2100	✓		Normal	
	3	(untitled)	Leeds/M62E	✓	124.35	✓	Directly entered	2050		1900	✓		Normal	
Cf	1	(untitled)		✓	144.60	✓	Sum of lanes	1965		1965			Normal	
	2	(untitled)		✓	145.86	✓	Sum of lanes	1965		1965			Normal	
	1	(untitled)	Brad/M62		55.00	✓	Directly entered	2050		2050	✓		Normal	

D	**2**	(untitled)	Leeds		55.00	✓	Directly entered	1850		2075	✓		Normal	
	3	(untitled)	Leeds/M62/Wake	✓	59.42	✓	Directly entered	2250		2250	✓		Normal	
Dc	**1**	(untitled)	Brad	✓	50.67	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Brad/M62W	✓	48.72	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Leeds	✓	46.78	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)	Leeds/M62E	✓	44.83	✓	Directly entered	2100		2100	✓		Normal	
Dcf	**1**	(untitled)		✓	65.95	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	65.92	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	68.61	✓	Directly entered	2100		2100			Normal	
	4	(untitled)		✓	66.73	✓	Directly entered	2100		2100			Normal	
	5	(untitled)		✓	66.90	✓	Directly entered	2100		2100			Normal	
Df	**1**	(untitled)			200.00	✓	Sum of lanes	1900			✓		Normal	
	2	(untitled)			200.00	✓	Directly entered	2250			✓		Normal	
Dxp	**1**	(untitled)		✓	46.62	✓	Directly entered	2050			✓		Normal	
	2	(untitled)		✓	48.64	✓	Directly entered	2050			✓		Normal	
Ec	**1**	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal	
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal	
	4	(untitled)	M62E	✓	45.93	✓	Directly entered	2250		2250	✓		Normal	
Ecf	**1**	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal	
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	46.93	✓	Directly entered	2263		2263			Normal	
	4	(untitled)		✓	50.37	✓	Directly entered	2300		2300			Normal	
Ef	**1**	(untitled)		✓	127.54	✓	Directly entered	1900					Normal	
	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal	
Exp	**1**	(untitled)		✓	51.83	✓	Directly entered	2050		2100	✓		Normal	
	2	(untitled)		✓	53.71	✓	Directly entered	2050		2100	✓		Normal	
F	**1**	(untitled)	Leeds	✓	85.13	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Wake	✓	85.72	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Dews/Brad	✓	87.25	✓	Directly entered	2100		2100	✓		Normal	
Fc	**1**	(untitled)	Leeds	✓	183.21	✓	Directly entered	2263		2263	✓		Normal	
	2	(untitled)	Leeds	✓	181.45	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	M62E/Dews	✓	180.28	✓	Directly entered	2263		2263	✓		Normal	

Ff	**1**	(untitled)		✓	275.73	✓	Sum of lanes	1900		1900			Normal	
	2	(untitled)		✓	275.39	✓	Sum of lanes	1900		1900			Normal	
G	**1**	(untitled)		✓	156.15	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)		✓	152.60	✓	Directly entered	2050		2050	✓		Normal	
Gf	**1**	(untitled)		✓	38.89	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	38.45	✓	Directly entered	2050		2050			Normal	
xA	**1**	(untitled)		✓	229.66	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	229.97	✓	Directly entered	2263		2263			Normal	
xB	**1**	(untitled)		✓	59.77								Normal	
xC	**1**	(untitled)		✓	115.60	✓	Sum of lanes	1900		1900			Normal	
	2	(untitled)		✓	115.98	✓	Sum of lanes	1900		1900			Normal	
xD	**1**	(untitled)		✓	121.71								Normal	
	2	(untitled)		✓	122.74								Normal	
xE	**1**	(untitled)		✓	173.89								Normal	
	2	(untitled)		✓	173.83								Normal	
xF	**1**	(untitled)		✓	100.14								Normal	
Cc1	**1**	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal	
E1	**1**	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal	
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal	
Gf1	**1**	(untitled)		✓	49.26							✓	Normal	
Cc2	**2**	(untitled)	Dews	✓	91.58	✓	Directly entered	2150		2100	✓		Normal	
	3	(untitled)	Brad/M62W	✓	89.25	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Dews/Brad	✓	88.96	✓	Directly entered	2150		2100	✓		Normal	
	5	(untitled)	Leeds	✓	88.65	✓	Directly entered	2050		2050	✓		Normal	
E2	**3**	(untitled)	Wake	✓	53.28	✓	Directly entered	2150		2050	✓		Normal	
	4	(untitled)	Wake	✓	54.33	✓	Directly entered	2050		2050	✓		Normal	
TC5	**2**	(untitled)		✓	23.03	✓	Sum of lanes	2263		2263	✓		Normal	
	3	(untitled)		✓	23.02	✓	Directly entered	2263		2263	✓		Normal	
	4	(untitled)		✓	24.43	✓	Sum of lanes	1800		2263	✓		Normal	
TC9	**1**	(untitled)		✓	91.71	✓	Directly entered	1925		1925	✓		Normal	
	2	(untitled)		✓	92.11	✓	Sum of lanes	1966		1966	✓		Normal	
	3	(untitled)		✓	92.69	✓	Sum of lanes	1947		1947	✓		Normal	
TC35	**1**	(untitled)		✓	24.16	✓	Directly entered	1900		2263	✓		Normal	
TC36	**1**	(untitled)		✓	25.22	✓	Sum of lanes	1800					Normal	
TC37	**1**	(untitled)		✓	44.32	✓	Directly entered	1850		1850	✓		Normal	
TC38	**1**	(untitled)		✓	21.32	✓	Directly entered	1850		1850		✓	Normal	

TC39	2	(untitled)		✓	35.24	✓	Directly entered	2263		2263			Normal	
	3	(untitled)		✓	33.28	✓	Directly entered	2263		2263			Normal	
TC40	2	(untitled)		✓	58.74								Normal	
	3	(untitled)		✓	55.82								Normal	
TC41	1	(untitled)		✓	54.63	✓	Directly entered	1850		1850	✓		Normal	
TC42	1	(untitled)		✓	23.35	✓	Sum of lanes	1771			✓		Normal	
TC43	1	(untitled)		✓	51.77	✓	Sum of lanes	1800					Normal	
47	1	(untitled)		✓	133.63	✓	Directly entered	1300		1300			Normal	
48	1	(untitled)		✓	55.12	✓	Sum of lanes	1965					Normal	
49	1	(untitled)		✓	26.24	✓	Directly entered	1900					Normal	
	2	(untitled)		✓	26.24	✓	Directly entered	1900					Normal	
50	1	(untitled)		✓	48.15	✓	Sum of lanes	1900					Normal	
51	1	(untitled)		✓	37.47	✓	Sum of lanes	1900					Normal	
52	1	Dewsbury Road NB Bus Gate			200.00	✓	Sum of lanes	1800			✓		Normal	
53	1				91.71	✓	Sum of lanes	1800			✓		Normal	
54	1				25.00	✓	Sum of lanes	1800			✓		Normal	
55	1				20.00	✓	Sum of lanes	1800			✓		Normal	

Lanes

Arm	Traffic Stream	Lane	Name	Description	Use RR67	Surface condition	Site quality factor	Gradient (%)	Width (m)	Use connector turning radius	Proportion that turn (%)	Turning radius (m)	Nearside lane	Saturation flow (PCU/hr)
A	1	1	(untitled)											
	2	2	(untitled)											
	3	3	(untitled)											
	4	4	(untitled)											
Ac	1	1	(untitled)											
	2	2	(untitled)											
	3	3	(untitled)											
Acf	1	1	(untitled)											
	2	2	(untitled)											
Af	1	1	(untitled)											
	2	2	(untitled)											
	3	3	(untitled)											
B	1	1	(untitled)											
	2	2	(untitled)											
	3	3	(untitled)											
	4	4	(untitled)											
Bc	1	1	(untitled)											
	2	1	(untitled)											
	3	1	(untitled)											
Bcf	1	1	(untitled)											
	2	1	(untitled)											
	3	1	(untitled)											
	4	1	(untitled)											
Bf	1	1	(untitled)											1800
	2	1	(untitled)											1800

C	1	1	(untitled)												
	2	2	(untitled)												
	3	3	(untitled)												
Cf	1	2	(untitled)												1965
	2	1	(untitled)												1965
D	1	1	(untitled)												
	2	2	(untitled)												
	3	3	(untitled)												
Dc	1	1	(untitled)												
	2	2	(untitled)												
	3	3	(untitled)												
	4	4	(untitled)												
Dcf	1	1	(untitled)												
	2	2	(untitled)												
	3	3	(untitled)												
	4	4	(untitled)												
	5	5	(untitled)												
Df	1	1	(untitled)												1900
	2	2	(untitled)												
Dxp	1	1	(untitled)												
	2	1	(untitled)												
Ec	1	1	(untitled)												
	2	1	(untitled)												
	3	1	(untitled)												
	4	1	(untitled)												
Ecf	1	1	(untitled)												
	2	2	(untitled)												
	3	3	(untitled)												
	4	4	(untitled)												
Ef	1	1	(untitled)												
	2	2	(untitled)												1900
Exp	1	1	(untitled)												
	2	2	(untitled)												
F	1	1	(untitled)												
	2	2	(untitled)												
	3	3	(untitled)												
Fc	1	1	(untitled)												
	2	2	(untitled)												
	3	3	(untitled)												
Ff	1	1	(untitled)												1900
	2	2	(untitled)												1900
G	1	1	(untitled)												
	2	2	(untitled)												
Gf	1	1	(untitled)												
	2	2	(untitled)												
xA	1	1	(untitled)												
	2	2	(untitled)												
xB	1	1	(untitled)												
xC	1	1	(untitled)												1900
	2	2	(untitled)												1900
xD	1	1	(untitled)												
	2	2	(untitled)												
xE	1	1	(untitled)												
	2	2	(untitled)												
xF	1	1	(untitled)												
Cc1	1	1	(untitled)												
E1	1	1	(untitled)												
	2	2	(untitled)												

Gf1	1	1	(untitled)											
Cc2	2	2	(untitled)											
	3	3	(untitled)											
	4	4	(untitled)											
	5	5	(untitled)											
E2	3	3	(untitled)											
	4	4	(untitled)											
TC5	2	1	(untitled)		✓	N/A	Clearly Good	0	3.50	✓	0	99999.00		2263
	3	1	(untitled)											
	4	1	(untitled)											1800
TC9	1	1	(untitled)											
	2	1	(untitled)		✓	N/A	Average	0	3.70	✓	0	99999.00		1966
	3	1	(untitled)		✓	N/A	Average	0	3.50	✓	0	99999.00		1947
TC35	1	1	(untitled)											
TC36	1	1	(untitled)											1800
TC37	1	1	(untitled)											
TC38	1	1	(untitled)											
TC39	2	1	(untitled)											
	3	1	(untitled)											
TC40	2	1	(untitled)											
	3	1	(untitled)											
TC41	1	1	(untitled)											
TC42	1	1	(untitled)		✓	N/A	Average	0	3.00	✓	0	9.44	✓	1771
TC43	1	1	(untitled)											1800
47	1	1	(untitled)											
48	1	1	(untitled)											1965
49	1	2	(untitled)											
	2	1	(untitled)											
50	1	1	(untitled)											1900
51	1	1	(untitled)											1900
52	1	1	(untitled)											1800
53	1	1	(untitled)											1800
54	1	1	(untitled)											1800
55	1	1	(untitled)											1800

Modelling

Arm	Traffic Stream	Traffic model	Stop weighting multiplier (%)	Delay weighting multiplier (%)	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	Degree of saturation limit (%)	Excess degree of saturation penalty (£)	Low degree o saturatio penalty (£)
A	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ac	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Acf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Af	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
B	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Bc	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							

	3	CTM	100	100	100		0.00							
Bcf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Bf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
C	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Cf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
D	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Dc	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Dcf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
Df	1	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Dxp	1	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Ec	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ecf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ef	1	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Exp	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
F	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Fc	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Ff	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00	✓	0.00	0.00	✓	2	0.00	0.00
G	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Gf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xA	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xB	1	NetworkDefault	100	100	100		0.00							
xC	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							

xD	1	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
xE	1	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
xF	1	NetworkDefault	100	100	100		0.00							
Cc1	1	CTM	100	100	100		0.00							
E1	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Gf1	1	NetworkDefault	100	100	100		0.00							
Cc2	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
E2	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
TC5	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
TC9	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
TC35	1	CTM	100	100	100		0.00							
TC36	1	NetworkDefault	100	100	100		0.00							
TC37	1	CTM	100	100	100		0.00							
TC38	1	CTM	100	100	100		0.00							
TC39	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
TC40	2	PDM	100	100	100		0.00							
	3	PDM	100	100	100		0.00							
TC41	1	CTM	100	100	100		0.00							
TC42	1	NetworkDefault	100	100	100		0.00							
TC43	1	NetworkDefault	100	100	100		0.00							
47	1	CTM	100	100	100		0.00							
48	1	NetworkDefault	100	100	100		0.00							
49	1	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
50	1	NetworkDefault	100	100	100		0.00							
51	1	NetworkDefault	100	100	100		0.00							
52	1	NetworkDefault	100	100	100		0.00							
53	1	NetworkDefault	100	100	100		0.00							
54	1	NetworkDefault	100	100	100		0.00							
55	1	NetworkDefault	100	100	100		0.00							

Modelling - Advanced

Arm	Traffic Stream	Initial queue (PCU)	Type of Vehicle-in-Service	Vehicle-in-Service	Type of random parameter	Random parameter	Auto cycle time	Cycle time
(ALL)	(ALL)	0.00	NetworkDefault	Not-Included	NetworkDefault	0.50	✓	120

Normal traffic - Modelling

Arm	Traffic Stream	Stop weighting (%)	Delay weighting (%)
(ALL)	(ALL)	100	100

Normal traffic - Advanced

Arm	Traffic Stream	Dispersion type for Normal Traffic
(ALL)	(ALL)	NetworkDefault

Flows

Arm	Traffic Stream	Total Flow (PCU/hr)	Normal Flow (PCU/hr)

A	1	372	372
	2	213	213
	3	336	336
	4	306	306
Ac	1	1080	1080
	2	193	193
	3	313	313
Acf	1	1273	1273
	2	313	313
Af	1	585	585
	2	336	336
	3	306	306
B	1	306	306
	2	428	428
	3	513	513
	4	570	570
Bc	1	442	442
	2	533	533
	3	385	385
Bcf	1	1452	1452
	2	442	442
	3	533	533
	4	385	385
Bf	1	734	734
	2	1083	1083
C	1	563	563
	2	642	642
	3	369	369
Cf	1	563	563
	2	1011	1011
D	1	409	409
	2	745	745
	3	782	782
Dc	1	1016	1016
	2	795	795
	3	691	691
	4	939	939
Dcf	1	643	643
	2	1256	1256
	3	795	795
	4	691	691
	5	939	939
Df	1	1140	1140
	2	782	782
Dxp	1	643	643
	2	240	240
Ec	1	662	662
	2	1369	1369
	3	1199	1199
	4	557	557
Ecf	1	1191	1191
	2	1029	1029
	3	1369	1369
	4	1788	1788
Ef	1	899	899
	2	509	509
Exp	1	1191	1191
	2	367	367

F	1	329	329
	2	192	192
	3	236	236
Fc	1	1597	1597
	2	1243	1243
	3	1129	1129
Ff	1	521	521
	2	236	236
G	1	377	377
	2	164	164
Gf	1	374	374
	2	135	135
xA	1	1693	1693
	2	1447	1447
xB	1	1452	1452
xC	1	616	616
	2	353	353
xD	1	643	643
	2	240	240
xE	1	1191	1191
	2	367	367
xF	1	717	717
Cc1	1	427	427
E1	1	327	327
	2	572	572
Gf1	1	32	32
Cc2	2	569	569
	3	759	759
	4	853	853
	5	570	570
E2	3	374	374
	4	135	135
TC5	2	1298	1298
	3	1447	1447
	4	0	0
TC9	1	554	554
	2	317	317
	3	294	294
TC35	1	395	395
TC36	1	68	68
TC37	1	19	19
TC38	1	19	19
TC39	2	1298	1298
	3	1447	1447
TC40	2	1317	1317
	3	1447	1447
TC41	1	49	49
TC42	1	0	0
TC43	1	0	0
47	1	968	968
48	1	1574	1574
49	1	566	566
	2	611	611
50	1	1817	1817
51	1	757	757
52	1	14	14
53	1	12	12
54	1	1452	1452

55	**1**	717	717

Signals

Arm	Traffic Stream	Controller stream	Phase	Second phase enabled
A	**1**	771-2	E	
	2	771-2	E	
	3	771-2	E	
	4	771-2	E	
Ac	**1**	771-2	D	
	2	771-2	D	
	3	771-2	D	
B	**1**	769-1	B	
	2	769-1	B	
	3	769-1	B	
	4	769-1	B	
Bc	**1**	769-1	A	
	2	769-1	A	
	3	769-1	A	
C	**1**	769-2	G	
	2	769-2	G	
	3	769-2	G	
D	**1**	770-1	B	
	2	770-1	B	
	3	770-1	B	
Dc	**1**	770-1	A	
	2	770-1	A	
	3	770-1	A	
	4	770-1	A	
Df	**1**	11	B	
	2	11	B	
Dxp	**1**	770-2	D	
	2	770-2	D	
Ec	**1**	770-3	F	
	2	770-3	F	
	3	770-3	F	
	4	770-3	F	
Exp	**1**	770-4	L	
	2	770-4	L	
F	**1**	771-1	B	
	2	771-1	B	
	3	771-1	B	
Fc	**1**	771-1	A	
	2	771-1	A	
	3	771-1	A	
G	**1**	769-2	F	
	2	769-2	F	
Cc1	**1**	769-2	E	
E1	**1**	770-3	G	
	2	770-3	G	
Cc2	**2**	769-2	D	
	3	769-2	D	
	4	769-2	D	
	5	769-2	D	
E2	**3**	770-3	H	
	4	770-3	H	
TC5	**2**	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	

TC9	1	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
TC35	1	TC777-1	A	
TC37	1	TC777-2	J	
TC41	1	TC777-1	D	
TC42	1	TC777-1	E	
52	1	11	A	
53	1	TC777-1	J	
54	1	12	A	
55	1	13	A	

Entry Sources

Arm	Traffic Stream	Cruise time for Normal Traffic (s)	Cruise speed for Normal Traffic (kph)
Df	1	24.00	30.00
	2	24.00	30.00
Ef	1	15.31	30.00
	2	15.31	30.00
TC36	1	3.03	30.00
TC42	1	2.80	30.00
48	1	6.61	30.00
49	1	3.15	30.00
	2	3.15	30.00
50	1	5.78	30.00
51	1	4.50	30.00
52	1	24.00	30.00

Sources

Arm	Traffic Stream	Source	Source traffic stream	Destination traffic stream	Cruise time for Normal Traffic (s)	Cruise speed for Normal Traffic (kph)	Auto turning radius	Traffic turn style	Turning radius (m)
A	1	1	Af/1	A/1	5.59	48.00	✓	Straight	Straight Movement
	2	1	Af/1	A/2	5.77	48.00	✓	Straight	Straight Movement
	3	1	Af/2	A/3	5.90	48.00	✓	Straight	Straight Movement
	4	1	Af/3	A/4	6.03	48.00	✓	Straight	Straight Movement
Ac	1	1	Acf/1	Ac/1	7.19	48.00	✓	Offside	48.59
	2	1	Acf/1	Ac/2	9.50	35.00	✓	Offside	46.08
	3	1	Acf/2	Ac/3	6.60	48.00	✓	Offside	42.76
Acf	1	1	F/2	Acf/1	5.22	48.00	✓	Straight	Straight Movement
	2	1	F/3	Acf/2	7.24	35.00	✓	Straight	Straight Movement
Af	1	1	TC42/1	Af/1	6.57	30.00	✓	Nearside	10.60
	2	1	TC42/1	Af/2	6.56	30.00	✓	Nearside	10.60
	3	1	TC42/1	Af/3	6.59	30.00	✓	Nearside	10.60
B	1	1	Bf/1	B/1	7.10	48.00	✓	Straight	Straight Movement
	2	1	Bf/1	B/2	7.29	48.00	✓	Straight	Straight Movement
	3	1	Bf/2	B/3	7.48	48.00	✓	Straight	Straight Movement
	4	1	Bf/2	B/4	12.29	30.00	✓	Straight	Straight Movement
Bc	1	1	Bcf/2	Bc/1	11.96	40.00	✓	Offside	51.76
	2	1	Bcf/3	Bc/2	11.83	40.00	✓	Offside	48.45
	3	1	Bcf/4	Bc/3	11.71	40.00	✓	Offside	45.13
	1	1	A/1	Bcf/1	4.70	48.00	✓	Nearside	68.65

Bcf	**2**	**1**	A/2	Bcf/2	6.69	34.00	✓	Nearside	71.96
	3	**1**	A/3	Bcf/3	6.60	34.00	✓	Nearside	75.27
	4	**1**	A/4	Bcf/4	6.59	34.00	✓	Nearside	78.59
Bf	**1**	**1**	50/1	Bf/1	27.34	30.00	✓	Straight	Straight Movement
	2	**1**	50/1	Bf/2	27.41	30.00	✓	Straight	Straight Movement
C	**1**	**1**	Cf/1	C/1	14.54	30.00	✓	Offside	59.30
	2	**1**	Cf/2	C/2	14.68	30.00	✓	Offside	55.98
	3	**1**	Cf/2	C/3	14.92	30.00	✓	Offside	53.27
Cf	**1**	**1**	48/1	Cf/1	17.35	30.00	✓	Straight	Straight Movement
	2	**1**	48/1	Cf/2	17.50	30.00	✓	Straight	Straight Movement
D	**1**	**1**	Df/1	D/1	4.13	48.00	✓	Straight	Straight Movement
	2	**1**	Df/1	D/2	4.13	48.00	✓	Straight	Straight Movement
	3	**1**	Df/2	D/3	4.46	48.00	✓	Straight	Straight Movement
Dc	**1**	**1**	Dcf/2	Dc/1	3.80	48.00	✓	Offside	56.07
	2	**1**	Dcf/3	Dc/2	3.65	48.00	✓	Offside	52.76
	3	**1**	Dcf/4	Dc/3	3.51	48.00	✓	Offside	49.44
	4	**1**	Dcf/5	Dc/4	3.36	48.00	✓	Offside	46.13
Dcf	**1**	**1**	Cc2/2	Dcf/1	4.95	48.00	✓	Straight	Straight Movement
	2	**1**	Cc2/4	Dcf/2	4.94	48.00	✓	Straight	Straight Movement
	3	**1**	Cc2/3	Dcf/3	5.15	48.00	✓	Straight	Straight Movement
	4	**1**	C/2	Dcf/4	5.00	48.00	✓	Nearside	58.86
	5	**1**	Cc2/5	Dcf/5	5.02	48.00	✓	Straight	Straight Movement
Dxp	**1**	**1**	Dcf/1	Dxp/1	3.50	48.00	✓	Nearside	80.62
	2	**1**	Dcf/2	Dxp/2	3.65	48.00	✓	Nearside	83.93
Ec	**1**	**1**	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	**1**	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	**1**	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	**1**	Ecf/4	Ec/4	3.44	48.00	✓	Offside	67.06
Ecf	**1**	**1**	Dc/1	Ecf/1	3.45	48.00	✓	Offside	76.11
	2	**1**	Dc/2	Ecf/2	3.48	48.00	✓	Offside	72.80
	3	**1**	Dc/3	Ecf/3	3.52	48.00	✓	Offside	69.49
	4	**1**	Dc/4	Ecf/4	3.78	48.00	✓	Offside	66.17
Exp	**1**	**1**	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	**1**	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	**1**	**1**	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	**1**	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	**1**	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	**1**	**1**	Ec/2	Fc/1	18.84	35.00	✓	Straight	Straight Movement
	2	**1**	Ec/3	Fc/2	18.66	35.00	✓	Straight	Straight Movement
	3	**1**	Ec/4	Fc/3	18.54	35.00	✓	Straight	Straight Movement
Ff	**1**	**1**	51/1	Ff/1	33.09	30.00	✓	Straight	Straight Movement
	2	**1**	51/1	Ff/2	33.05	30.00	✓	Straight	Straight Movement
G	**1**	**1**	Gf/1	G/1	16.06	35.00	✓	Offside	96.83
	2	**1**	Gf/2	G/2	11.45	48.00	✓	Offside	93.51

Gf	**1**	**1**	E2/3	Gf/1	2.92	48.00	✓	Straight	Straight Movement
	2	**1**	E2/4	Gf/2	2.88	48.00	✓	Straight	Straight Movement
xA	**1**	**1**	F/1	xA/1	17.22	48.00	✓	Straight	Straight Movement
	2	**1**	F/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
xB	**1**	**1**	54/1	xB/1	4.48	48.00	✓	Nearside	40.41
xC	**1**	**1**	G/1	xC/1	8.67	48.00	✓	Straight	Straight Movement
	2	**1**	G/2	xC/2	8.70	48.00	✓	Straight	Straight Movement
xD	**1**	**1**	Dxp/1	xD/1	9.13	48.00	✓	Nearside	30.26
	2	**1**	Dxp/2	xD/2	9.21	48.00	✓	Nearside	33.58
xE	**1**	**1**	Exp/1	xE/1	13.04	48.00	✓	Straight	Straight Movement
	2	**1**	Exp/2	xE/2	13.04	48.00	✓	Straight	Straight Movement
xF	**1**	**1**	55/1	xF/1	7.51	48.00	✓	Nearside	54.50
Cc1	**1**	**1**	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
E1	**1**	**1**	Ef/1	E1/1	6.00	48.00	✓	Nearside	26.33
	2	**1**	Ef/1	E1/2	6.00	48.00	✓	Nearside	28.96
Gf1	**1**	**1**	Ecf/4	Gf1/1	3.69	48.00	✓	Offside	25.08
Cc2	**2**	**1**	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	**1**	Bc/3	Cc2/3	5.95	54.00	✓	Straight	Straight Movement
	4	**1**	Bc/3	Cc2/4	5.93	54.00	✓	Straight	Straight Movement
	5	**1**	Bc/3	Cc2/5	5.91	54.00	✓	Offside	97.08
E2	**3**	**1**	Ef/2	E2/3	4.00	48.00	✓	Nearside	43.25
	4	**1**	Ef/2	E2/4	4.07	48.00	✓	Nearside	43.25
TC5	**2**	**1**	xA/1	TC5/2	2.76	30.00	✓	Straight	Straight Movement
	3	**1**	xA/2	TC5/3	2.76	30.00	✓	Straight	Straight Movement
	4	**1**	xA/2	TC5/4	2.93	30.00	✓	Straight	Straight Movement
TC9	**1**	**1**	49/1	TC9/1	11.00	30.00	✓	Straight	Straight Movement
	2	**1**	49/2	TC9/2	11.05	30.00	✓	Straight	Straight Movement
	3	**1**	49/2	TC9/3	11.12	30.00	✓	Straight	Straight Movement
TC35	**1**	**1**	xA/1	TC35/1	2.90	30.00	✓	Straight	Straight Movement
TC37	**1**	**1**	TC36/1	TC37/1	3.19	50.00	✓	Nearside	46.04
TC38	**1**	**1**	TC37/1	TC38/1	1.53	50.00	✓	Straight	Straight Movement
TC39	**2**	**1**	TC5/2	TC39/2	2.54	50.00	✓	Straight	Straight Movement
	3	**1**	TC5/3	TC39/3	2.40	50.00	✓	Straight	Straight Movement
TC40	**2**	**1**	TC38/1	TC40/2	4.23	50.00	✓	Nearside	11.92
	3	**1**	TC39/3	TC40/3	4.02	50.00	✓	Offside	77.43
TC41	**1**	**1**	TC36/1	TC41/1	3.93	50.00	✓	Straight	Straight Movement
TC43	**1**	**1**	TC9/1	TC43/1	3.73	50.00	✓	Nearside	6.11
47	**1**	**1**	xC/1	47/1	16.04	30.00	✓	Straight	Straight Movement
53	**1**	**1**	49/1	53/1	11.01	30.00	✓	Straight	Straight Movement
54	**1**	**1**	Bcf/1	54/1	2.25	40.00	✓	Nearside	48.48
55	**1**	**1**	E1/1	55/1	2.40	30.00	✓	Nearside	38.74

Acf	**1**	**2**	Fc/3	Acf/1	5.22	48.00	✓	Straight	Straight Movement
	2	**2**	Fc/3	Acf/2	7.24	35.00	✓	Straight	Straight Movement
Af	**1**	**2**	TC9/1	Af/1	6.57	30.00	✓	Straight	Straight Movement
	2	**2**	TC9/2	Af/2	6.56	30.00	✓	Straight	Straight Movement
	3	**2**	TC9/3	Af/3	6.59	30.00	✓	Straight	Straight Movement
Bcf	**1**	**2**	Ac/1	Bcf/1	3.96	57.00	✓	Offside	93.05
	2	**2**	Ac/2	Bcf/2	3.99	57.00	✓	Offside	89.74
	3	**2**	Ac/3	Bcf/3	3.94	57.00	✓	Offside	86.42
	4	**2**	Ac/3	Bcf/4	3.93	57.00	✓	Offside	86.42
D	**1**	**2**	52/1	D/1	4.13	48.00	✓	Straight	Straight Movement
	2	**2**	52/1	D/2	4.13	48.00	✓	Straight	Straight Movement
	3	**2**	52/1	D/3	4.46	48.00	✓	Straight	Straight Movement
Dcf	**1**	**2**	C/1	Dcf/1	4.95	48.00	✓	Nearside	55.54
	2	**2**	C/1	Dcf/2	4.94	48.00	✓	Nearside	55.54
	3	**2**	C/2	Dcf/3	5.15	48.00	✓	Nearside	58.86
	4	**2**	Cc2/3	Dcf/4	8.01	30.00	✓	Straight	Straight Movement
	5	**2**	C/3	Dcf/5	5.02	48.00	✓	Nearside	62.17
Ecf	**1**	**2**	D/1	Ecf/1	3.45	48.00	✓	Nearside	43.36
	2	**2**	D/1	Ecf/2	3.48	48.00	✓	Nearside	43.36
	3	**2**	D/2	Ecf/3	3.52	48.00	✓	Nearside	46.68
	4	**2**	D/3	Ecf/4	3.78	48.00	✓	Nearside	49.99
Fc	**1**	**2**	E1/1	Fc/1	20.61	32.00	✓	Nearside	58.94
	2	**2**	E1/1	Fc/2	20.41	32.00	✓	Nearside	60.85
	3	**2**	E1/2	Fc/3	20.28	32.00	✓	Nearside	64.16
G	**1**	**2**	Gf1/1	G/1	16.06	35.00	✓	Offside	17.91
	2	**2**	Gf1/1	G/2	11.45	48.00	✓	Offside	15.13
xA	**1**	**2**	Fc/1	xA/1	17.22	48.00	✓	Straight	Straight Movement
	2	**2**	Fc/2	xA/2	17.25	48.00	✓	Straight	Straight Movement
xC	**1**	**2**	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	**2**	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
Cc1	**1**	**2**	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	**2**	**2**	Bc/2	Cc2/2	6.11	54.00	✓	Straight	Straight Movement
	3	**2**	B/3	Cc2/3	8.03	40.00	✓	Straight	Straight Movement
	4	**2**	B/2	Cc2/4	8.01	40.00	✓	Straight	Straight Movement
	5	**2**	B/4	Cc2/5	7.98	40.00	✓	Straight	Straight Movement
TC39	**2**	**2**	TC42/1	TC39/2	2.54	50.00	✓	Offside	9.44
	3	**2**	TC42/1	TC39/3	2.40	50.00	✓	Offside	9.44
TC40	**2**	**2**	TC39/2	TC40/2	4.23	50.00	✓	Offside	80.74
TC43	**1**	**2**	TC5/4	TC43/1	3.73	50.00	✓	Offside	21.45
47	**1**	**2**	xC/2	47/1	16.04	30.00	✓	Straight	Straight Movement
55	**1**	**2**	Ec/1	55/1	2.40	30.00	✓	Straight	Straight Movement
Acf	**1**	**3**	Fc/2	Acf/1	5.22	48.00	✓	Straight	Straight Movement
Af	**1**	**3**	TC41/1	Af/1	6.57	30.00	✓	Offside	6.19
	2	**3**	TC41/1	Af/2	6.56	30.00	✓	Offside	6.19

	3	3	TC41/1	Af/3	6.59	30.00	✓	Offside	6.19
Bcf	2	3	Ac/3	Bcf/2	3.99	57.00	✓	Offside	86.42
Dcf	3	3	Cc2/4	Dcf/3	8.23	30.00	✓	Straight	Straight Movement
Ecf	4	3	D/2	Ecf/4	6.04	30.00	✓	Nearside	46.68
xA	2	3	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	2	3	B/2	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	4	3	Bc/2	Cc2/4	5.93	54.00	✓	Straight	Straight Movement
Af	1	4	53/1	Af/1	6.57	30.00	✓	Straight	Straight Movement
	2	4	53/1	Af/2	6.56	30.00	✓	Straight	Straight Movement
	3	4	53/1	Af/3	6.59	30.00	✓	Straight	Straight Movement
Cc2	2	4	Bc/1	Cc2/2	6.11	54.00	✓	Straight	Straight Movement

Give Way Data

Arm	Traffic Stream	Opposed traffic	Use Step-wise Opposed Turn Model	Visibility restricted
(ALL)	1	AllTraffic		

Give Way Data - All Movements - Conflicts

Traffic Stream	Description	Controlling type	Controlling traffic stream	Percentage opposing (%)	Slope coefficient	Upstream signals visible	Conflict shift	Conflict duration
1		TrafficStream	Gf/1	100	0.22		4	0
		TrafficStream	Gf/2	100	0.22		4	4
		TrafficStream	TC39/2	100	0.22		0	0
		TrafficStream	TC39/3	100	0.22		0	0

Pedestrian Crossings

Pedestrian Crossings

Crossing	Name	Description	Traffic node	Allow walk on red	Crossing type	Length (m)	Cruise time (seconds)	Cruise speed (kph)
1	(untitled)		3-2		Nearside	3.00	2.00	5.40
2	(untitled)		3		Nearside	3.00	2.00	5.40
3	(untitled)		4-2		Nearside	3.00	2.00	5.40
4	(untitled)		4		Nearside	3.00	2.00	5.40
5	(untitled)		4		Nearside	3.00	2.00	5.40
6	(untitled)		4		Nearside	3.00	2.00	5.40
7	(untitled)		5		Nearside	3.00	2.00	5.40
8	(untitled)		1		Nearside	3.00	2.00	5.40
9	(untitled)		2		Nearside	3.00	2.00	5.40
10	(untitled)		2		Nearside	3.00	2.00	5.40
11	(untitled)				Nearside	3.00	2.00	5.40
12	(untitled)		2		Nearside	3.00	2.00	5.40
13	(untitled)				Farside	3.00	2.00	5.40
14	(untitled)				Farside	3.00	2.00	5.40
15	(untitled)				Nearside	3.00	2.00	5.40
16	(untitled)				Nearside	3.00	2.00	5.40
17	(untitled)				Nearside	3.00	2.00	5.40
18	(untitled)		12		Farside	3.00	2.00	5.40
19	(untitled)		13		Farside	3.00	2.00	5.40

Pedestrian Crossings - Signals

Crossing	Controller stream	Phase	Second phase enabled
1	770-2	E	
2	770-1	C	
3	770-4	M	
4	770-3	J	
5	770-3	I	
6	770-3	K	
7	771-1	C	
8	769-1	C	
9	769-2	J	
10	769-2	K	
11	769-2	H	
12	769-2	I	
13	TC777-1	I	
14	TC777-1	F	
15	TC777-1	G	
16	TC777-1	H	
17	TC777-2	K	
18	12	B	
19	13	B	

Pedestrian Crossings - Sides

Crossing	Side	Saturation flow (Ped/hr)
(ALL)	(ALL)	11000

Pedestrian Crossings - Modelling

Crossing	Side	Delay weighting (%)	Assignment Cost Weighting (%)	Exclude from results calculation	Max queue storage (Ped)	Has queue limit	Has degree of saturation limit
(ALL)	(ALL)	100	100		0.00		

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
1	(untitled)	✓	✓	Lane Balancing			✓			✓	1.25		

Normal Input Flows (PCU/hr)

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	0	50	305	2	479	112	869	0
	B28	37	0	83	285	625	39	505	0
	C28	527	32	0	234	175	40	928	0
	D28	3	225	150	0	50	91	238	0
	E28	513	509	81	55	0	45	205	0
	F28	15	10	5	13	6	0	19	0
	G28	357	142	259	128	223	68	0	0
	H28	0	0	0	0	0	0	0	0

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	A28	(untitled)	50/1	xB/1	#FF0000
	B28	(untitled)	48/1	47/1	#00FF40
	C28	(untitled)	Df/2, Df/1, 52/1	xD/1, xD/2	#804000
	D28	(untitled)	51/1	xF/1	#FF00FF
	E28	(untitled)	Ef/2, Ef/1	xE/1, xE/2	#FF8000
	F28	(untitled)	TC36/1	TC35/1	#FFA500
	G28	(untitled)	49/2, 49/1	TC40/2, TC40/3	#0000FF
	H28	(untitled)	TC42/1	TC43/1	#008000

Normal Paths and Flows

OD Matrix	Path	Description	From location	To location	Path items	Allocation type	N Cal (P
	24		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	25		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	
	32	I1	C28	E28	Df/1, D/1, Ecf/1, Exp/1, xE/1	Normal	
	36		C28	E28	Df/1, D/1, Ecf/2, Exp/2, xE/2	Disabled	
	42		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	43		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	
	44		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	45		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	68		E28	G28	Ef/1, E1/1, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
	91	I2	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	
	96		A28	C28	50/1, Bf/1, B/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Disabled	
	98		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	
	99	I3	C28	B28	Df/2, D/3, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Normal	
	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Fixed	
	101		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	
	104	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	
	106		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	
	108		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
	109	I3	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
	111		B28	G28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
	112		F28	G28	TC36/1, TC37/1, TC38/1, TC40/2	Normal	
	114		C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	
	116		F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	117		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
	118		F28	C28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	
	119		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	120		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	122		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	123		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	124		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
	126		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
	127		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
	128		H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	129		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	

130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
131		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	
132		H28	C28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
133		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
135		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
136		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	
138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	
139		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
141		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
142		C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
143		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	
145		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
146		F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
147		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
149	I3	C28	B28	Df/2, D/3, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Fixed	
150		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	
152		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
153		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
155		E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
156		C28	G28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
157		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	
159		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	
160		B28	G28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
161		B28	F28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
162		B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
164		B28	B28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Normal	
165		B28	B28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Normal	
166		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	
167		B28	E28	48/1, Cf/1, C/1, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
169		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
170		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	
171		G28	H28	49/1, TC9/1, TC43/1	Normal	
172		C28	F28	52/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Fixed	
173		C28	G28	52/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Disabled	
174		C28	H28	52/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
175		G28	C28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	
176		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
178		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	
180		C28	C28	52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
181		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
182		C28	C28	52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
183		C28	C28	52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
184		C28	C28	52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	
186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	
187		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
188		C28	H28	52/1, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
190		C28	C28	52/1, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
192		C28	C28	52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
193		C28	C28	52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
194		C28	C28	52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
196		D28	F28	51/1, Ff/1, F/1, xA/1, TC35/1	Normal	
197		D28	G28	51/1, Ff/1, F/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
198		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Fixed	
199		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	

	201		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal
	202		G28	B28	49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Disabled
	203		G28	C28	49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed
	204		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed
	205		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed
	206		C28	D28	Df/1, D/1, Ecf/2, Ec/1, 55/1, xF/1	Normal
	207		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal
	208		G28	C28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled
	209		G28	E28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Disabled
1	210		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal
	211		A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal
	212		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal
	213		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed
	214		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal
	215		G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal
	216		G28	G28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal
	217		G28	G28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal
	218		A28	G28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Fixed
	219		A28	F28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal
	220		H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal
	221		F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal
	223		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed
	225		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed
	227		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal
	229		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed
	230		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal
	231		A28	G28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed
	232		A28	H28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal
	233		B28	H28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal
	234	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed
	235		E28	G28	Ef/1, E1/1, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed
	236		E28	H28	Ef/1, E1/1, Fc/1, xA/2, TC5/4, TC43/1	Normal
	237		F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal
	238		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Fixed
	239		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed
	240		G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed
	241		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed
	242		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal
	244		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed
	245		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal
	246		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal
	247		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal
	248		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled
	249		H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal
	250		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal
	251		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal
	252		F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal
	253		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal
	256		C28	C28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal
	257		C28	H28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal
	259		C28	C28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal
	261		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal
	262		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal
	263		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal
	264		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal
	265		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal
	266		C28	B28	Df/1, D/2, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Fixed
	267		C28	B28	Df/1, D/2, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Fixed

268		C28	E28	52/1, D/1, Ecf/1, Exp/1, xE/1	Fixed	
270		C28	E28	52/1, D/1, Ecf/2, Exp/2, xE/2	Disabled	
271		C28	G28	52/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Fixed	
272		C28	G28	52/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Disabled	
273		C28	H28	52/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
275		C28	C28	52/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
276		C28	C28	52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
277		C28	B28	52/1, D/2, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Disabled	
278		C28	B28	52/1, D/2, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Disabled	
279		C28	G28	52/1, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Disabled	
280		C28	C28	52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
281		C28	C28	52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
282		C28	B28	52/1, D/3, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Fixed	
283		C28	B28	52/1, D/3, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Disabled	
285		G28	C28	49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Disabled	
286		G28	B28	49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Fixed	
287		G28	C28	49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	
288		G28	E28	49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	
290		G28	E28	49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Disabled	
292		G28	E28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Disabled	
294		G28	E28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Disabled	
295		G28	G28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
296		G28	F28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Fixed	
297		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, 54/1, xB/1	Normal	
298		G28	A28	49/1, 53/1, Af/1, A/1, Bcf/1, 54/1, xB/1	Disabled	
299		A28	A28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Normal	
300		A28	A28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Normal	
301		B28	A28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Fixed	
302		B28	A28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Normal	
303		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Fixed	
304		C28	A28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Normal	
305		C28	A28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Fixed	
306		C28	A28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Fixed	
307		C28	A28	52/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Disabled	
308		C28	A28	52/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Disabled	
309		C28	A28	52/1, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Disabled	
310		C28	A28	52/1, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Disabled	
311		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Fixed	
312		E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Normal	
313		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, 54/1, xB/1	Normal	
314		H28	A28	TC42/1, Af/1, A/1, Bcf/1, 54/1, xB/1	Normal	
315		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, 54/1, xB/1	Normal	
316		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
317		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
318		G28	D28	49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Disabled	
319		G28	D28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Disabled	
320		G28	D28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Disabled	
321		A28	D28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
322		A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
323		B28	D28	48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
324		C28	D28	52/1, D/1, Ecf/2, Ec/1, 55/1, xF/1	Disabled	
325		E28	D28	Ef/1, E1/1, 55/1, xF/1	Normal	
326		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
327		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
328		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
329		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
330		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	
331		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal	

	332		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Fixed
	333		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, 55/1, xF/1	Normal

Signal Timings

Network Default: 120s cycle time; 120 steps

Controller Stream 11

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
11	(untitled)		1	NetworkDefault	120

Controller Stream 11 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
11	Unspecified						Absolute

Controller Stream 11 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
11	✓	✓	None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type
11	(ALL)	(untitled)	7	300	0	0	Traffic

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
11	1	A	1
	2	B	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
11	1	(untitled)	Single	1, 2	7, 115

Intergreen Matrix for Controller Stream 11

		To	
		A	B
From	A		5
	B	5	

Banned Stage transitions for Controller Stream 11

		To	
		1	2
From	1		
	2		

Interstage Matrix for Controller Stream 11

		To	
		1	2
From	1	0	5
	2	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
11	1	✓	1	A	0	7	7	1	7
	2	✓	2	B	12	115	103	1	7

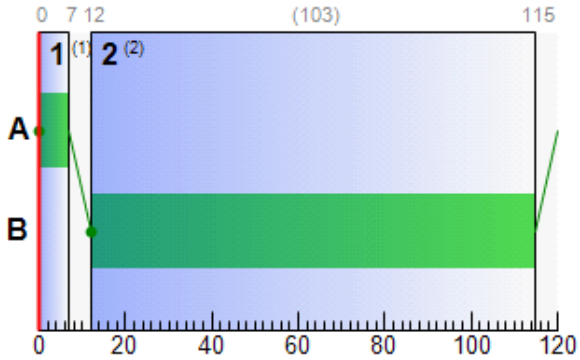
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
11	A	1	✓	0	7	7
	B	1	✓	12	115	103

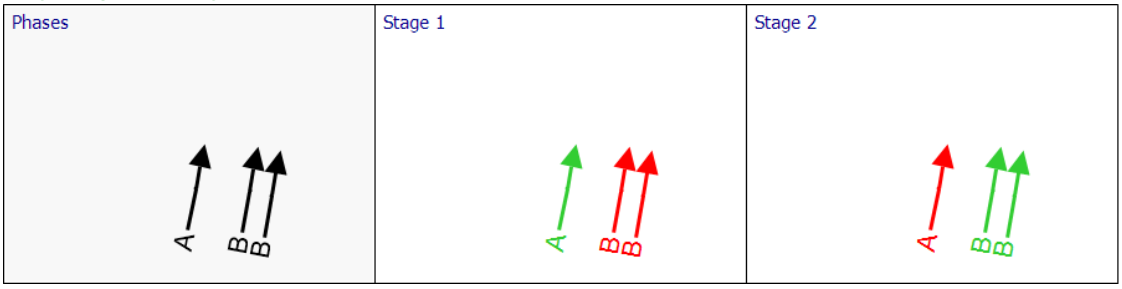
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
Df	1	3-2	11	B	12	115	103			
Df	2	3-2	11	B	12	115	103			
52	1	3-2	11	A	0	7	7			

Phase Timings Diagram for Controller Stream 11



Stage Sequence Diagram for Controller Stream 11



Controller Stream 12

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
12	(untitled)		1	NetworkDefault	120

Controller Stream 12 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
12	Unspecified						Absolute

Controller Stream 12 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
12	✓	✓	None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
12	A	(untitled)	7	300	0	0	Traffic	
	B	(untitled)	6	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
12	1	A	1
	2	B	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
12	1	(untitled)	Single	1, 2	87, 98

Intergreen Matrix for Controller Stream 12

		To	
		A	B
From	A		5
	B	5	

Banned Stage transitions for Controller Stream 12

		To	
		1	2
From	1		
	2		

Interstage Matrix for Controller Stream 12

		To	
		1	2
From	1	0	5
	2	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
12	1	✓	1	A	103	87	104	1	7
	2	✓	2	B	92	98	6	1	6

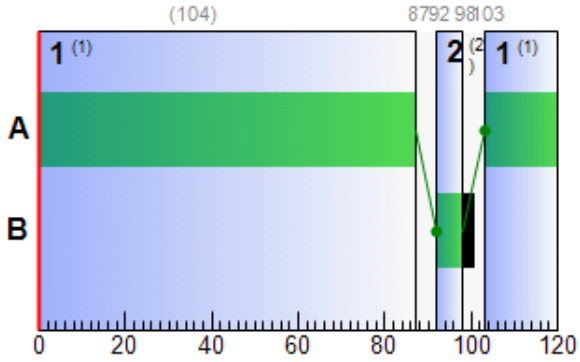
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
12	A	1	✓	103	87	104
	B	1	✓	92	98	6

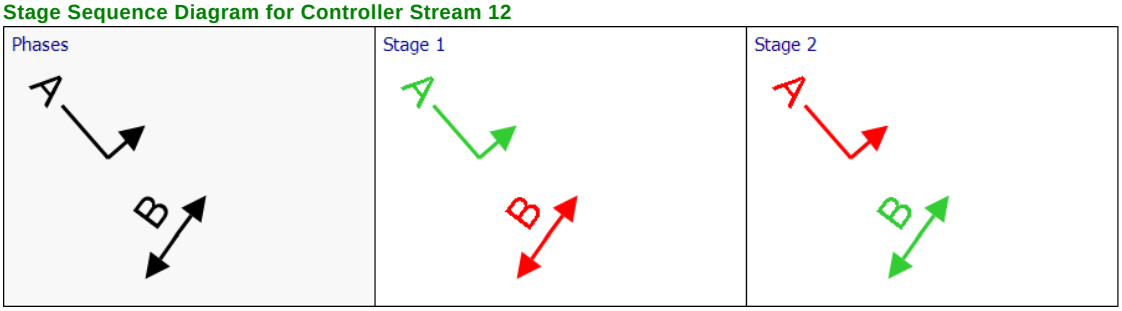
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
54	1	6	12	A	103	87	104			

Phase Timings Diagram for Controller Stream 12



Stage Sequence Diagram for Controller Stream 12



Controller Stream 13

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
13	(untitled)		1	NetworkDefault	120

Controller Stream 13 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
13	Unspecified						Absolute

Controller Stream 13 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
13	✓	✓	None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
13	A	(untitled)	7	300	0	0	Traffic	
	B	(untitled)	6	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
13	1	A	1
	2	B	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
13	1	(untitled)	Single	1, 2	28, 39

Intergreen Matrix for Controller Stream 13

		To	
		A	B
From	A		5
	B	5	

Banned Stage transitions for Controller Stream 13

		To	
		1	2
From	1		
	2		

Interstage Matrix for Controller Stream 13

		To	
		1	2
From	1	0	5
	2	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
13	1	✓	1	A	44	28	104	1	7
	2	✓	2	B	33	39	6	1	6

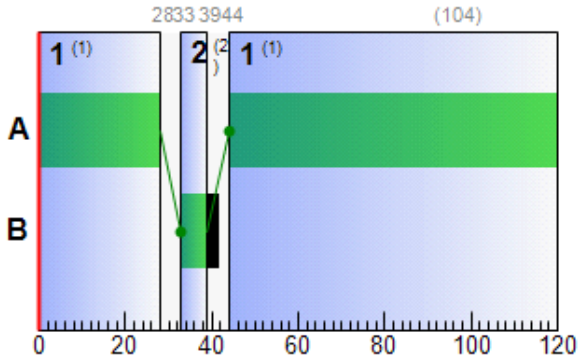
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
13	A	1	✓	44	28	104
	B	1	✓	33	39	6

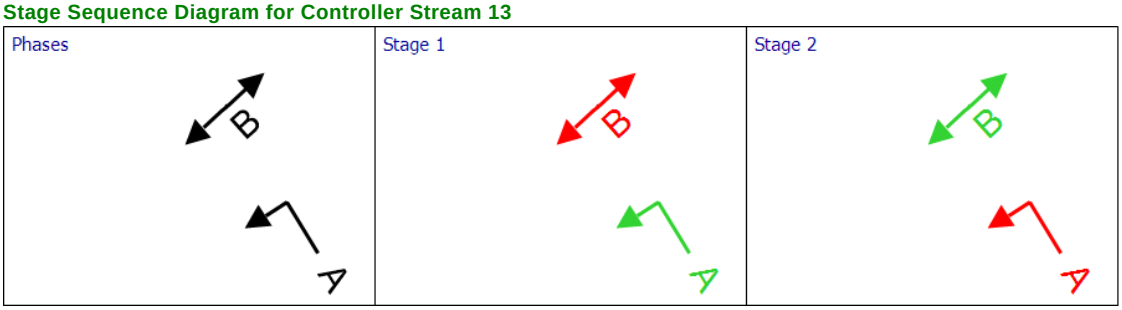
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
55	1	4	13	A	44	28	104			

Phase Timings Diagram for Controller Stream 13



Stage Sequence Diagram for Controller Stream 13



Controller Stream 769-1

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
769-1	(untitled)		1	NetworkDefault	120

Controller Stream 769-1 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
769-1	Unspecified						Absolute

Controller Stream 769-1 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
769-1			None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
769-1	A	(untitled)	7	300	0	0	Traffic	
	B	(untitled)	7	300	0	0	Traffic	
	C	(untitled)	7	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
769-1	1	A	1
	2	B	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Equal length multiple cycling	Stage IDs	Stage ends	Multiple cycling stage IDs	Multiple cycling stage ends
769-1	1	(untitled)	Double	✓	1, 2	5, 31	1, 2	65, 91

Intergreen Matrix for Controller Stream 769-1

		To		
		A	B	C
From	A		7	
	B	5		5
	C		9	

Banned Stage transitions for Controller Stream 769-1

		To	
		1	2
From	1		
	2		

Interstage Matrix for Controller Stream 769-1

		To	
		1	2
From	1	0	7
	2	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
769-1	1	✓	1	A	96	5	29	1	7
	2	✓	2	B	12	31	19	1	7
	3		1	A	36	65	29	1	7
	4		2	B	72	91	19	1	7

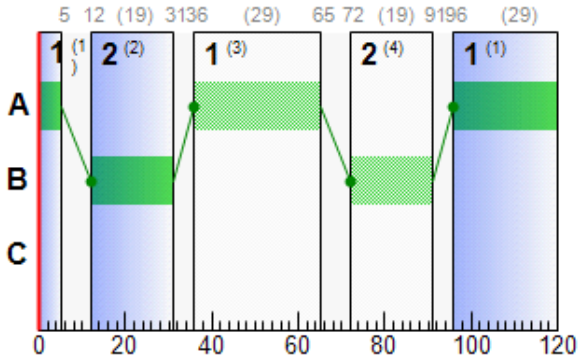
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
769-1	A	1		36	65	29
		2	✓	96	5	29
	B	1	✓	12	31	19
		2		72	91	19

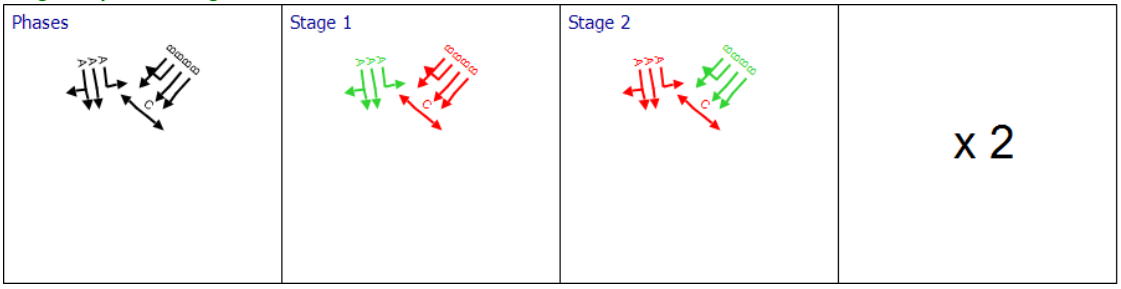
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
B	1	1	769-1	B	12	31	19	72	91	19
B	2	1	769-1	B	12	31	19	72	91	19
B	3	1	769-1	B	12	31	19	72	91	19
B	4	1	769-1	B	12	31	19	72	91	19
Bc	1	1	769-1	A	36	65	29	96	5	29
Bc	2	1	769-1	A	36	65	29	96	5	29
Bc	3	1	769-1	A	36	65	29	96	5	29

Phase Timings Diagram for Controller Stream 769-1



Stage Sequence Diagram for Controller Stream 769-1



Controller Stream 769-2

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
769-2	(untitled)		1	NetworkDefault	120

Controller Stream 769-2 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
769-2	Unspecified						Absolute

Controller Stream 769-2 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
769-2			None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
769-2	D	(untitled)	7	300	0	0	Traffic	
	E	(untitled)	7	300	0	0	Traffic	
	F	(untitled)	4	300	0	0	Traffic	
	G	(untitled)	4	300	0	0	Traffic	
	H	(untitled)	5	300	0	0	Pedestrian	3
	I	(untitled)	7	300	0	0	Pedestrian	3
	J	(untitled)	10	300	0	0	Pedestrian	3
	K	(untitled)	5	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
769-2	4	D, E, H, I	1
	5	F, G, J, K	1
	6	F, G, K	1

Losing / Gaining Phase Delays

Controller Stream	Delay	Type	Phase	From stage	To stage	Relative delay	Absolute delay
	1	Losing	I	4	5	2	
	2	Losing	H	4	5	4	
	3	Losing	D	4	5	4	
	4	Losing	E	4	5	5	
	5	Losing	F	5	4	5	
	6	Losing	G	5	4	7	
	7	Losing	K	5	4	7	
	9	Losing	I	4	6	4	
	10	Losing	H	4	6	6	
	11	Losing	D	4	6	6	
	12	Losing	E	4	6	7	
	13	Losing	F	6	4	5	
	14	Losing	K	6	4	7	
	15	Gaining	D	6	4	0	11

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Equal length multiple cycling	Stage IDs	Stage ends	Multiple cycling stage IDs	Multiple cycling stage ends
769-2	1	(untitled)	Double	✓	4, 5	4, 23	4, 5	64, 83
	2	(untitled)	Double	✓	4, 6, 5	0, 16, 32	4, 6, 5	33, 34, 35
	3	(untitled)	Double	✓	4, 5, 6	0, 26, 34	4, 5, 6	60, 88, 95
	4	(untitled)	Double	✓	4, 6	2, 23	4, 6	62, 83

Intergreen Matrix for Controller Stream 769-2

		To							
		D	E	F	G	H	I	J	K
From	D			5	7			5	
	E			5					5
	F	6	8			8			
	G	4					5		
	H			5					
	I				9				
	J	12							
	K		7						

Banned Stage transitions for Controller Stream 769-2

		To		
		4	5	6
From	4			
	5			
	6			

Interstage Matrix for Controller Stream 769-2

		To		
		4	5	6
From	4	0	11	13
	5	14	0	0
	6	14	0	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
769-2	1	✓	4	D,E,H,I	97	4	27	1	3
	2	✓	5	F,G,J,K	15	23	8	1	8
	3		4	D,E,H,I	37	64	27	1	3
	4		5	F,G,J,K	75	83	8	1	8

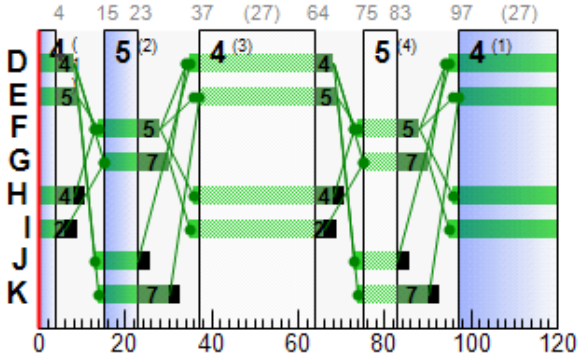
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
769-2	D	1		35	68	33
		2	✓	95	8	33
	E	1		37	69	32
		2	✓	97	9	32
	F	1	✓	14	28	14
		2		74	88	14
	G	1	✓	15	30	15
		2		75	90	15
	H	1		36	68	32
		2	✓	96	8	32
	I	1		35	66	31
		2	✓	95	6	31
	J	1	✓	13	23	10
		2		73	83	10
	K	1	✓	14	30	16
		2		74	90	16

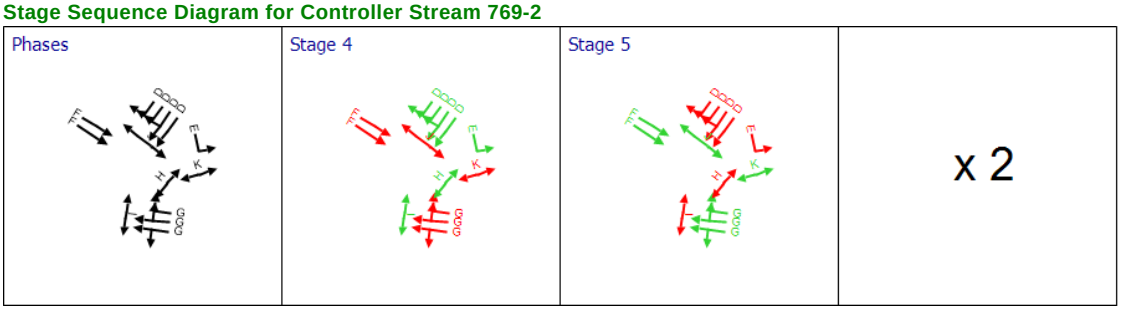
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
C	1	2	769-2	G	15	30	15	75	90	15
C	2	2	769-2	G	15	30	15	75	90	15
C	3	2	769-2	G	15	30	15	75	90	15
G	1	2	769-2	F	14	28	14	74	88	14
G	2	2	769-2	F	14	28	14	74	88	14
Cc1	1	2	769-2	E	37	69	32	97	9	32
Cc2	2	2	769-2	D	35	68	33	95	8	33
Cc2	3	2	769-2	D	35	68	33	95	8	33
Cc2	4	2	769-2	D	35	68	33	95	8	33
Cc2	5	2	769-2	D	35	68	33	95	8	33

Phase Timings Diagram for Controller Stream 769-2



Stage Sequence Diagram for Controller Stream 769-2



Controller Stream 770-1

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
770-1	(untitled)		1	NetworkDefault	120

Controller Stream 770-1 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
770-1	Unspecified						Absolute

Controller Stream 770-1 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
770-1			None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
770-1	A	(untitled)	7	300	0	0	Traffic	
	B	(untitled)	7	300	0	0	Traffic	
	C	(untitled)	5	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
770-1	1	A, C	1
	2	B	1

Losing / Gaining Phase Delays

Controller Stream	Delay	Type	Phase	From stage	To stage	Relative delay
770-1	1	Losing	A	1	2	2

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Equal length multiple cycling	Stage IDs	Stage ends	Multiple cycling stage IDs	Multiple cycling stage ends
770-1	1	(untitled)	Double	✓	1, 2	10, 36	1, 2	70, 96

Intergreen Matrix for Controller Stream 770-1

		To		
		A	B	C
From	A		5	
	B	5		5
	C		7	

Banned Stage transitions for Controller Stream 770-1

		To	
		1	2
From	1		
	2		

Interstage Matrix for Controller Stream 770-1

		To	
		1	2
From	1	0	7
	2	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
770-1	1	✓	1	A,C	101	10	29	1	5
	2	✓	2	B	17	36	19	1	7
	3		1	A,C	41	70	29	1	5
	4		2	B	77	96	19	1	7

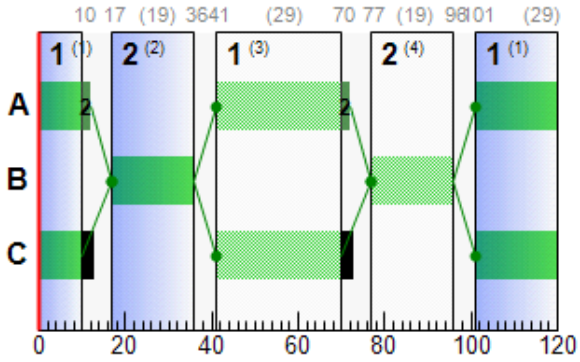
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-1	A	1		41	72	31
		2	✓	101	12	31
	B	1	✓	17	36	19
		2		77	96	19
	C	1		41	70	29
		2	✓	101	10	29

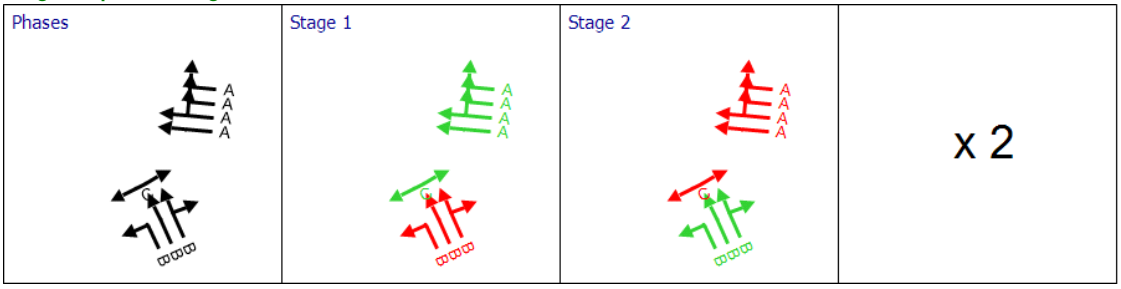
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
D	1	3	770-1	B	17	36	19	77	96	19
D	2	3	770-1	B	17	36	19	77	96	19
D	3	3	770-1	B	17	36	19	77	96	19
Dc	1	3	770-1	A	41	72	31	101	12	31
Dc	2	3	770-1	A	41	72	31	101	12	31
Dc	3	3	770-1	A	41	72	31	101	12	31
Dc	4	3	770-1	A	41	72	31	101	12	31

Phase Timings Diagram for Controller Stream 770-1



Stage Sequence Diagram for Controller Stream 770-1



Controller Stream 770-2

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
770-2	(untitled)		1	Manual	120

Controller Stream 770-2 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
770-2	Unspecified						Absolute

Controller Stream 770-2 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
770-2			None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
770-2	D	(untitled)	7	300	0	0	Traffic	
	E	(untitled)	5	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
770-2	4	D	1
	5	E	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
770-2	1	(untitled)	Single	4, 5	17, 29

Intergreen Matrix for Controller Stream 770-2

		To	
		D	E
From	D		5
	E	7	

Banned Stage transitions for Controller Stream 770-2

		To	
		4	5
From	4		
	5		

Interstage Matrix for Controller Stream 770-2

		To	
		4	5
From	4	0	5
	5	7	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
770-2	1	✓	4	D	36	17	101	1	7
	2	✓	5	E	22	29	7	1	5

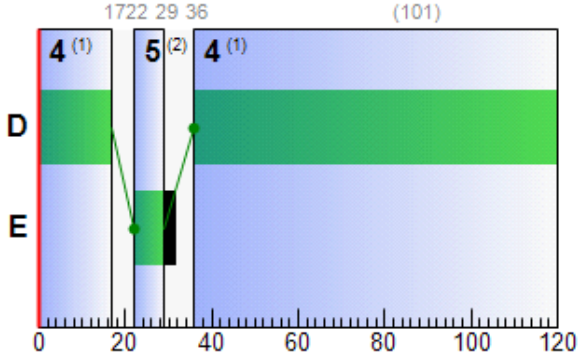
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-2	D	1	✓	36	17	101
	E	1	✓	22	29	7

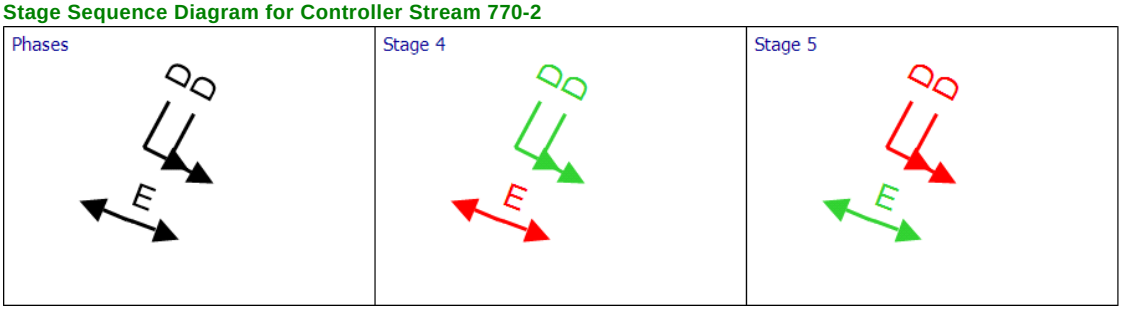
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
Dxp	1	3-2	770-2	D	36	17	101			
Dxp	2	3-2	770-2	D	36	17	101			

Phase Timings Diagram for Controller Stream 770-2



Stage Sequence Diagram for Controller Stream 770-2



Controller Stream 770-3

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
770-3	(untitled)		1	NetworkDefault	120

Controller Stream 770-3 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
770-3	Unspecified						Absolute

Controller Stream 770-3 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
770-3			None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
770-3	F	(untitled)	7	300	0	0	Traffic	
	G	(untitled)	4	300	0	0	Traffic	
	H	(untitled)	4	300	0	0	Traffic	
	I	(untitled)	5	300	0	0	Pedestrian	3
	J	(untitled)	5	300	0	0	Pedestrian	3
	K	(untitled)	10	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
770-3	7	F, I, J	1
	8	G, H, K	1
	9	G, H	1

Losing / Gaining Phase Delays

Controller Stream	Delay	Type	Phase	From stage	To stage	Relative delay
770-3	1	Losing	I	7	8	2
	2	Losing	F	7	8	2
	3	Losing	G	8	7	7
	4	Losing	H	8	7	5
	5	Losing	I	7	9	4
	6	Losing	F	7	9	4
	7	Losing	G	9	7	7
	8	Losing	H	9	7	5
	9	Losing	J	7	9	2

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Equal length multiple cycling	Stage IDs	Stage ends	Multiple cycling stage IDs	Multiple cycling stage ends
770-3	1	(untitled)	Double	✓	7, 9	10, 28	7, 9	70, 88

Intergreen Matrix for Controller Stream 770-3

		To					
		F	G	H	I	J	K
From	F		7	5			6
	G	4			5		
	H	6				5	
	I		7				
	J			7			
	K	11					

Banned Stage transitions for Controller Stream 770-3

		To		
		7	8	9
From	7			
	8			
	9			

Interstage Matrix for Controller Stream 770-3

		To		
		7	8	9
From	7	0	9	11
	8	12	0	0
	9	12	0	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
770-3	1	✓	7	F,I,J	100	10	30	1	2
	2	✓	9	G,H	21	28	7	1	1
	3		7	F,I,J	40	70	30	1	2
	4		9	G,H	81	88	7	1	1

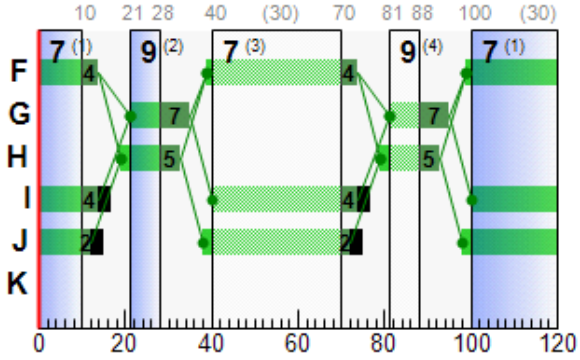
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-3	F	1		39	74	35
		2	✓	99	14	35
	G	1	✓	21	35	14
		2		81	95	14
	H	1	✓	19	33	14
		2		79	93	14
	I	1		40	74	34
		2	✓	100	14	34
	J	1		38	72	34
		2	✓	98	12	34

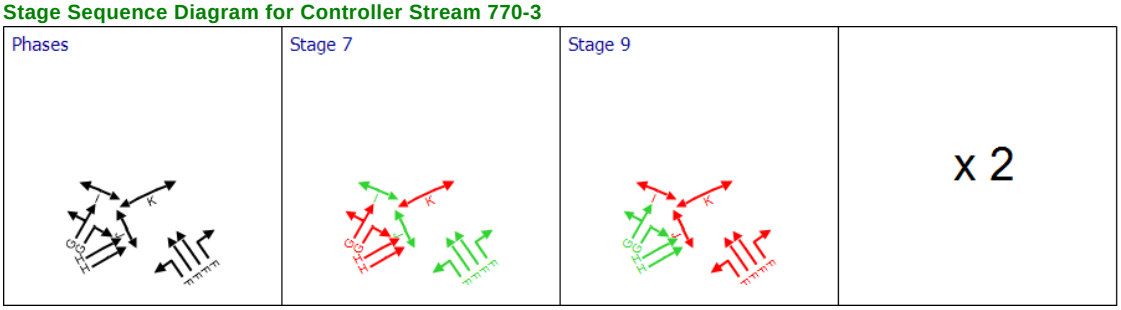
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
Ec	1	4	770-3	F	39	74	35	99	14	35
Ec	2	4	770-3	F	39	74	35	99	14	35
Ec	3	4	770-3	F	39	74	35	99	14	35
Ec	4	4	770-3	F	39	74	35	99	14	35
E1	1	4	770-3	G	21	35	14	81	95	14
E1	2	4	770-3	G	21	35	14	81	95	14
E2	3	4	770-3	H	19	33	14	79	93	14
E2	4	4	770-3	H	19	33	14	79	93	14

Phase Timings Diagram for Controller Stream 770-3



Stage Sequence Diagram for Controller Stream 770-3



Controller Stream 770-4

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
770-4	(untitled)		1	NetworkDefault	120

Controller Stream 770-4 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
770-4	Unspecified						Absolute

Controller Stream 770-4 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
770-4			None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
770-4	L	(untitled)	7	300	0	0	Traffic	
	M	(untitled)	6	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
770-4	11	L	1
	12	M	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
770-4	1	(untitled)	Single	11, 12	19, 32

Intergreen Matrix for Controller Stream 770-4

		To	
		L	M
From	L		5
	M	7	

Banned Stage transitions for Controller Stream 770-4

		To	
		11	12
From	11		
	12		

Interstage Matrix for Controller Stream 770-4

		To	
		11	12
From	11	0	5
	12	7	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
770-4	1	✓	11	L	39	19	100	1	7
	2	✓	12	M	24	32	8	1	6

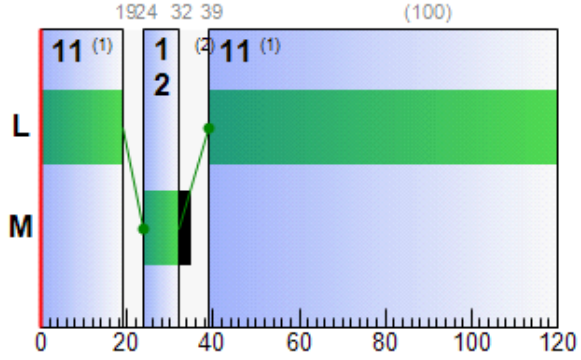
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-4	L	1	✓	39	19	100
	M	1	✓	24	32	8

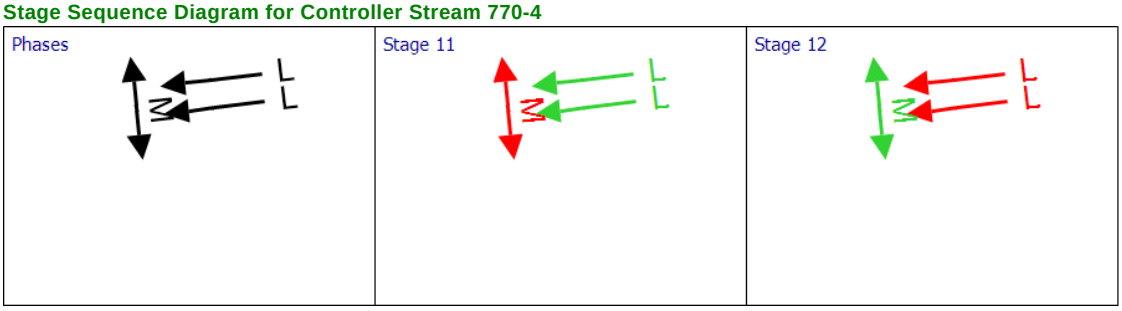
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
Exp	1	4-2	770-4	L	39	19	100			
Exp	2	4-2	770-4	L	39	19	100			

Phase Timings Diagram for Controller Stream 770-4



Stage Sequence Diagram for Controller Stream 770-4



Controller Stream 771-1

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
771-1	(untitled)		1	NetworkDefault	120

Controller Stream 771-1 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
771-1	Unspecified						Absolute

Controller Stream 771-1 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
771-1			None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
771-1	A	(untitled)	7	300	0	0	Traffic	
	B	(untitled)	7	300	0	0	Traffic	
	C	(untitled)	9	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
771-1	1	A, C	1
	2	A	1
	3	B	1

Losing / Gaining Phase Delays

Controller Stream	Delay	Type	Phase	From stage	To stage	Relative delay
771-1	1	Losing	A	1	3	6

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Equal length multiple cycling	Stage IDs	Stage ends	Multiple cycling stage IDs	Multiple cycling stage ends
771-1	1	(untitled)	Double	✓	1, 3	21, 40	1, 3	81, 100

Intergreen Matrix for Controller Stream 771-1

		To		
		A	B	C
From	A		5	
	B	5		5
	C		11	

Banned Stage transitions for Controller Stream 771-1

		To		
		1	2	3
From	1			
	2			
	3			

Interstage Matrix for Controller Stream 771-1

		To		
		1	2	3
From	1	0	0	11
	2	0	0	5
	3	5	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
771-1	1	✓	1	A,C	105	21	36	1	9
	2	✓	3	B	32	40	8	1	7
	3		1	A,C	45	81	36	1	9
	4		3	B	92	100	8	1	7

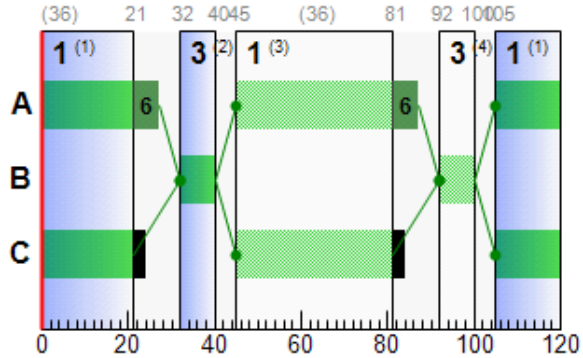
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
771-1	A	1		45	87	42
		2	✓	105	27	42
	B	1	✓	32	40	8
		2		92	100	8
	C	1		45	81	36
		2	✓	105	21	36

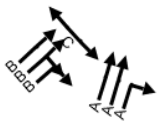
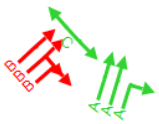
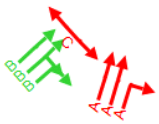
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
F	1	5	771-1	B	32	40	8	92	100	8
F	2	5	771-1	B	32	40	8	92	100	8
F	3	5	771-1	B	32	40	8	92	100	8
Fc	1	5	771-1	A	45	87	42	105	27	42
Fc	2	5	771-1	A	45	87	42	105	27	42
Fc	3	5	771-1	A	45	87	42	105	27	42

Phase Timings Diagram for Controller Stream 771-1



Stage Sequence Diagram for Controller Stream 771-1

Phases	Stage 1	Stage 3	
			x 2

Controller Stream 771-2

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
771-2	(untitled)		1	NetworkDefault	120

Controller Stream 771-2 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
771-2	Unspecified						Absolute

Controller Stream 771-2 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
771-2			None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type
771-2	**(ALL)**	(untitled)	7	300	0	0	Traffic

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
771-2	**5**	D	1
	6	E	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Equal length multiple cycling	Stage IDs	Stage ends	Multiple cycling stage IDs	Multiple cycling stage ends
771-2	**1**	(untitled)	Double	✓	5, 6	18, 41	5, 6	78, 101

Intergreen Matrix for Controller Stream 771-2

		To	
		D	**E**
From	**D**		5
	E	5	

Banned Stage transitions for Controller Stream 771-2

		To	
		5	**6**
From	**5**		
	6		

Interstage Matrix for Controller Stream 771-2

		To	
		5	**6**
From	**5**	0	5
	6	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
771-2	1	✓	5	D	106	18	32	1	7
	2	✓	6	E	23	41	18	1	7
	3		5	D	46	78	32	1	7
	4		6	E	83	101	18	1	7

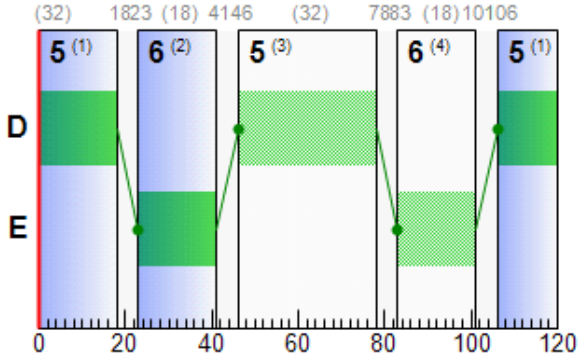
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
771-2	D	1		46	78	32
		2	✓	106	18	32
	E	1	✓	23	41	18
		2		83	101	18

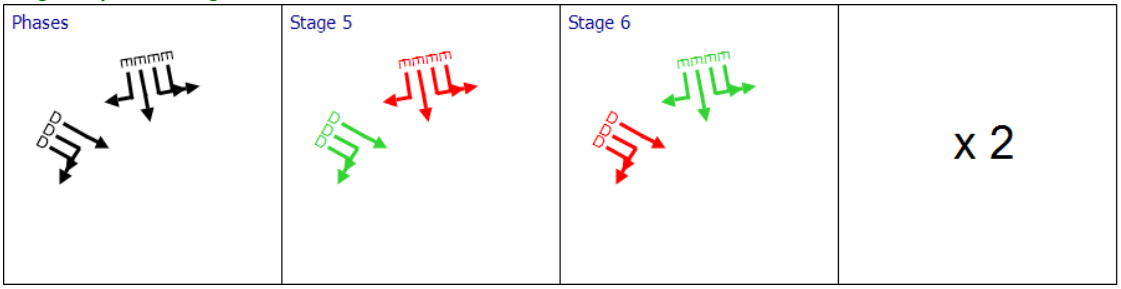
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
A	1	6	771-2	E	23	41	18	83	101	18
A	2	6	771-2	E	23	41	18	83	101	18
A	3	6	771-2	E	23	41	18	83	101	18
A	4	6	771-2	E	23	41	18	83	101	18
Ac	1	6	771-2	D	46	78	32	106	18	32
Ac	2	6	771-2	D	46	78	32	106	18	32
Ac	3	6	771-2	D	46	78	32	106	18	32

Phase Timings Diagram for Controller Stream 771-2



Stage Sequence Diagram for Controller Stream 771-2



Controller Stream TC777-1

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
TC777-1	A653 Dewsbury Road / Topcliffe Lane		1	NetworkDefault	120

Controller Stream TC777-1 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
TC777-1	Unspecified						Absolute

Controller Stream TC777-1 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
TC777-1	✓	✓	None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
TC777-1	A	Dewsbury Rd NB	7	300	0	1	Traffic	
	B	Dewsbury Rd SB	7	300	0	2	Traffic	
	C	Dewsbury Rd NB RT	7	300	0	0	Traffic	
	D	Topcliffe Ln RT	7	300	0	0	Traffic	
	E	Side Road	7	300	0	0	Traffic	
	F	Ped Xing at D	5	300	0	0	Pedestrian	3
	G	Ped Xing at B	7	300	0	0	Pedestrian	3
	H	Ped Xing at A AH	6	300	0	0	Pedestrian	3
	I	Ped Xing at A LT	5	300	0	0	Pedestrian	3
	J	(untitled)	7	300	0	0	Traffic	

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
TC777-1	1	A, B, F	1
	2	A, C, F, G	1
	3	B, F, H, I	1
	4	D, E	1
	5	D, H, I	1
	6	E, F, I	1
	7	J, F, A	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
TC777-1	1	(untitled)	Single	1, 2, 5, 7	89, 105, 0, 12

Intergreen Matrix for Controller Stream TC777-1

		To									
		A	B	C	D	E	F	G	H	I	J
From	A				5	5			7	5	
	B			5	5	5		5			5
	C		6		5	5					6
	D	5	5	6			5				5
	E	5	5	5					8		5
	F				5						
	G		16								16
	H	6				6					
	I	5									
	J		5	5	5	5		5			

Banned Stage transitions for Controller Stream TC777-1

		To						
		1	2	3	4	5	6	7
From	1							
	2							
	3							
	4							
	5							
	6							
	7							

Interstage Matrix for Controller Stream TC777-1

		To						
		1	2	3	4	5	6	7
From	1	0	5	7	5	7	5	5
	2	16	0	16	5	7	5	16
	3	6	6	0	6	5	6	6
	4	5	6	8	0	8	5	5
	5	6	6	5	6	0	6	6
	6	5	5	8	5	8	0	5
	7	5	5	7	5	7	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
TC777-1	1	✓	1	A,B,F	17	89	72	1	7
	2	✓	2	A,C,F,G	94	105	11	1	7
	3	✓	5	D,H,I	112	0	8	1	6
	4	✓	7	J,F,A	6	12	6	1	6

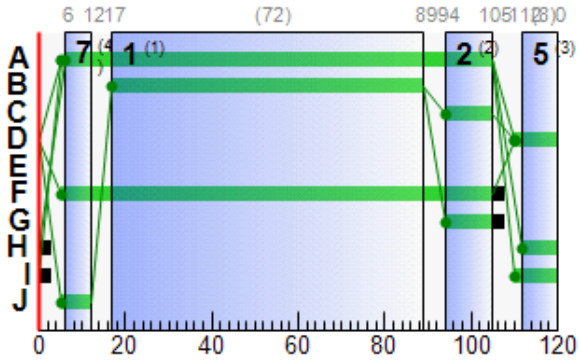
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
TC777-1	A	1	✓	6	105	99
	B	1	✓	17	89	72
	C	1	✓	94	105	11
	D	1	✓	110	0	10
	F	1	✓	5	105	100
	G	1	✓	94	105	11
	H	1	✓	112	0	8
	I	1	✓	110	0	10
	J	1	✓	5	12	7

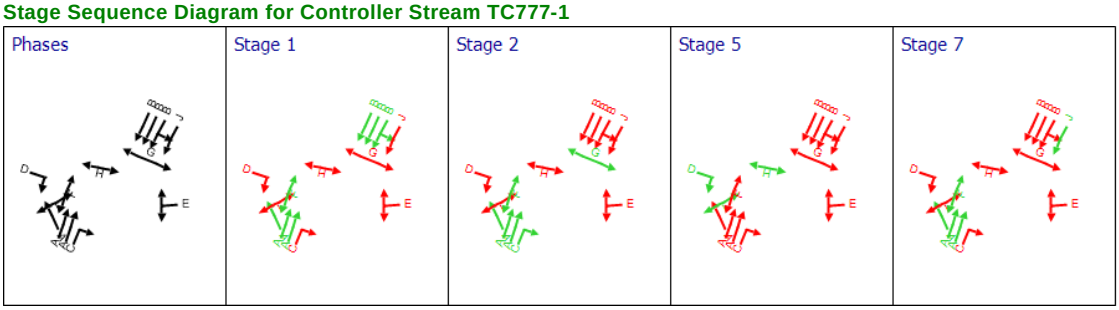
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
TC5	2	TC771-6	TC777-1	A	6	105	99			
TC5	3	TC771-6	TC777-1	A	6	105	99			
TC5	4	TC771-6	TC777-1	C	94	105	11			
TC9	1	TC771-6	TC777-1	B	17	89	72			
TC9	2	TC771-6	TC777-1	B	17	89	72			
TC9	3	TC771-6	TC777-1	B	17	89	72			
TC35	1	TC771-6	TC777-1	A	6	105	99			
TC41	1	TC771-6	TC777-1	D	110	0	10			
TC42	1	TC771-6	TC777-1	E						
53	1	TC771-6	TC777-1	J	5	12	7			

Phase Timings Diagram for Controller Stream TC777-1



Stage Sequence Diagram for Controller Stream TC777-1



Controller Stream TC777-2

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
TC777-2	Topcliffe Ln LT Ped		1	NetworkDefault	120

Controller Stream TC777-2 - Properties

Controller Stream	Manufacturer name	Type	Model number	(Telephone) Line Number	Site number	Grid reference	Gaining delay type
TC777-2	Unspecified						Absolute

Controller Stream TC777-2 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
TC777-2	✓	✓	None		

Phases

Controller Stream	Phase	Name	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type	Blackout Time (s)
TC777-2	J	Topcliffe Ln LT	7	300	0	0	Traffic	
	K	Ped Xing at J	5	300	0	0	Pedestrian	3

Library Stages

Controller Stream	Library Stage	Phases in stage	User stage minimum (s)
TC777-2	1	J	1
	2	K	1

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
TC777-2	1	(untitled)	Single	1, 2	30, 40

Intergreen Matrix for Controller Stream TC777-2

		To	
		J	K
From	J		5
	K	5	

Banned Stage transitions for Controller Stream TC777-2

		To	
		1	2
From	1		
	2		

Interstage Matrix for Controller Stream TC777-2

		To	
		1	2
From	1	0	5
	2	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
TC777-2	1	✓	1	J	45	30	105	1	7
	2	✓	2	K	35	40	5	1	5

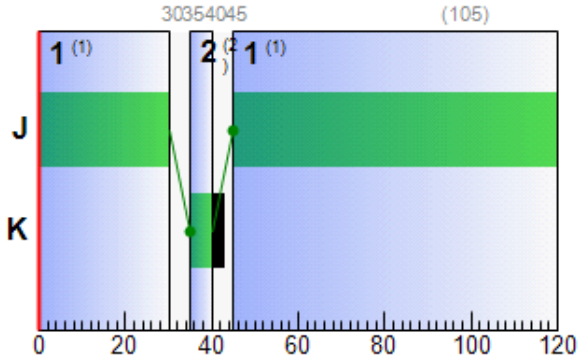
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
TC777-2	J	1	✓	45	30	105
	K	1	✓	35	40	5

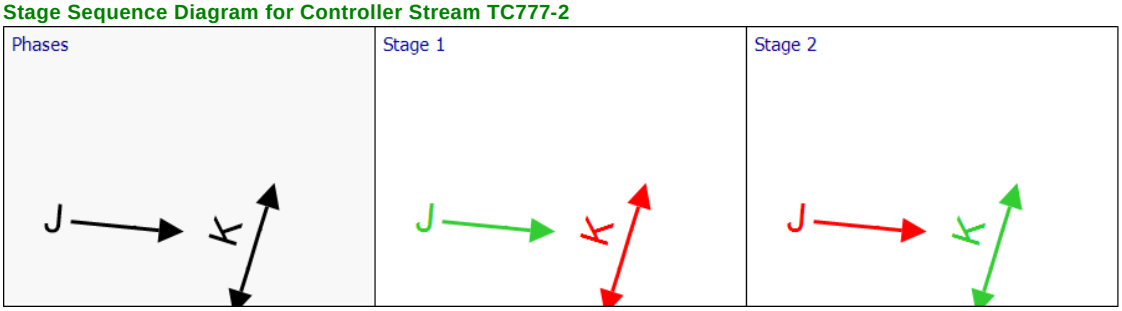
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
TC37	1	TC771-6	TC777-2	J	45	30	105			

Phase Timings Diagram for Controller Stream TC777-2



Stage Sequence Diagram for Controller Stream TC777-2



Resultant penalties

Time Segment	Controller stream	Phase min max penalty (£ per hr)	Intergreen broken penalty (£ per hr)	Stage constraint broken penalty (£ per hr)	Cost of controller stream penalties (£ per hr)
07:30-08:30	(ALL)	0.00	0.00	0.00	0.00

Results - Link

Results - Traffic Stream

Results - Traffic Stream: Vehicle summary

Time Segment	Arm	Traffic Stream	Name	Phase	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual green (s (per cycle))	Calculated capacity (PCU/hr)	Degree of saturation (%)	Practical reserve capacity (%)	Mean Delay per Veh (s)	Mean max queue (PCU)	Utilised storage (%)	JourneyTime (s)
	A	1	(untitled)	E	372	2050	36	649	57	57	17.02	5.91	45.62	22.61
		2	(untitled)	E	213	2050	36	649	33	174	13.62	3.00	22.44	19.39
		3	(untitled)	E	338	2050	36	649	52	73	12.14	4.07	29.75	18.04
		4	(untitled)	E	307	2050	36	649	47	90	11.70	3.72	26.65	17.72
	Ac	1	(untitled)	D	995	2263	64	1245	80	13	11.83	6.29	37.76	19.01
		2	(untitled)	D	186	2263	64	1189	16	476	0.83	1.81	11.27	10.32
		3	(untitled)	D	310	2263	64	1245	25	261	1.03	4.70	30.76	7.63
	Acf	1	(untitled)		1181	2263	120	2263	52	72	0.87	0.28	2.35	6.09
		2	(untitled)		310	2263	120	2263	14	557	0.13	0.01	0.09	7.37
	Af	1	(untitled)		585	2050	120	2050	29	215	0.35	0.06	0.60	6.92
		2	(untitled)		338	2050	120	2050	16	446	0.17	0.02	0.17	6.74
		3	(untitled)		307	2050	120	2050	15	501	0.15	0.01	0.14	6.74
	B	1	(untitled)	B	306	2050	38	683	45	101	17.80	3.75	22.78	24.90
		2	(untitled)	B	428	2150	38	708	60	49	20.60	5.75	33.99	27.89
		3	(untitled)	B	513	2100	38	689	74	21	25.24	7.41	42.74	32.72
		4	(untitled)	B	570	2050	38	683	83	8	31.10	10.01	56.20	43.39
	Bc	1	(untitled)	A	435	2050	58	1025	42	112	4.70	2.09	9.04	16.66
		2	(untitled)	A	532	2050	58	911	58	54	8.32	2.69	11.78	20.15
		3	(untitled)	A	387	2050	58	1023	38	138	3.27	2.05	9.05	14.98
	Bcf	1	(untitled)		1367	2263	120	2263	60	49	1.21	0.46	4.22	5.37
		2	(untitled)		435	2263	120	2263	19	369	0.19	0.02	0.21	5.50
		3	(untitled)		532	2263	120	2263	24	283	0.24	0.04	0.33	5.87
		4	(untitled)		387	2263	120	2263	17	426	0.16	0.02	0.16	6.21
	Bf	1	(untitled)		734	1800	120	1800	41	121	0.69	0.14	0.35	28.03
		2	(untitled)		1083	1800	120	1800	60	50	1.51	0.45	1.14	28.92
	C	1	(untitled)	G	495	2100	30	560	88	2	50.72	10.94	51.92	65.25
		2	(untitled)	G	564	2200	30	587	96	-6	136.40	27.38	128.65	151.08
		3	(untitled)	G	324	2050	30	547	59	52	23.53	5.84	26.98	38.45
	Cf	1	(untitled)		495	1965	120	1965	25	257	0.31	0.04	0.17	17.66
		2	(untitled)		889	1965	120	889	100	-10	108.43	39.06	153.98	125.94
		1	(untitled)	B	339	2050	38	683	50	82	27.16	4.61	48.17	31.28

	D	2	(untitled)	B	617	1850	38	617	100	-10	105.73	21.21	221.75	109.85
		3	(untitled)	B	711	2250	38	711	100	-10	97.37	22.13	214.13	101.82
	Dc	1	(untitled)	A	967	2100	62	1120	86	4	19.12	9.55	108.39	22.93
		2	(untitled)	A	748	2100	62	1120	67	35	11.63	7.32	86.37	15.28
		3	(untitled)	A	665	2100	62	926	72	25	11.26	6.34	77.97	14.77
		4	(untitled)	A	894	2100	62	1060	84	7	17.02	8.63	110.72	20.38
	Dcf	1	(untitled)		636	2050	120	2050	31	190	0.39	0.07	0.61	5.34
		2	(untitled)		1206	2100	120	1447	83	8	12.05	10.78	94.00	16.99
		3	(untitled)		747	2100	120	1869	40	125	0.83	2.36	19.76	6.34
		4	(untitled)		665	2100	120	2100	32	184	0.40	0.07	0.63	7.56
		5	(untitled)		894	2100	120	1782	50	79	4.89	9.89	85.01	9.91
	Df	1	(untitled)	B	1140	1900	103	944	121	-25	328.42	131.21	377.22	352.42
		2	(untitled)	B	782	2250	103	711	110	-18	197.05	51.43	147.86	221.05
	Dxp	1	(untitled)	D	636	2050	101	1743	36	147	0.97	1.16	14.37	4.47
		2	(untitled)	D	239	2050	101	1743	14	557	0.40	0.17	2.05	4.05
	Ec	1	(untitled)	F	588	2150	70	1290	46	97	5.84	3.61	41.50	9.59
		2	(untitled)	F	1227	2263	70	1358	90	0	16.52	10.82	128.51	20.16
		3	(untitled)	F	1127	2263	70	1358	83	8	8.41	5.70	70.06	11.92
		4	(untitled)	F	505	2250	70	1350	37	140	11.42	6.93	86.75	14.87
	Ecf	1	(untitled)		1109	2100	120	2096	53	70	0.98	4.94	61.84	4.42
		2	(untitled)		942	2100	120	2100	45	101	0.70	0.18	2.26	4.17
		3	(untitled)		1227	2263	120	1772	69	30	5.31	6.82	83.55	8.83
		4	(untitled)		1661	2300	120	2019	82	9	5.12	7.26	82.91	8.97
	Ef	1	(untitled)		900	1900	120	844	107	-16	148.98	47.77	215.34	164.29
		2	(untitled)		509	1900	120	1900	27	236	0.35	0.05	0.22	15.65
	Exp	1	(untitled)	L	1110	2050	100	1725	64	40	2.70	5.26	58.39	6.59
		2	(untitled)	L	351	2050	100	1725	20	342	0.27	2.34	25.10	4.30
07:30-08:30	F	1	(untitled)	B	315	2100	16	315	100	-10	231.15	22.31	150.72	237.54
		2	(untitled)	B	185	2100	16	315	59	53	42.28	3.49	23.41	48.71
		3	(untitled)	B	237	2100	16	315	75	20	41.03	4.58	30.19	47.57
	Fc	1	(untitled)	A	1440	2263	84	1622	89	1	10.39	8.64	27.11	29.49
		2	(untitled)	A	1168	2263	84	1513	77	17	7.04	11.41	36.17	25.77
		3	(untitled)	A	1043	2263	84	1607	65	39	5.34	18.40	58.68	24.78
	Ff	1	(untitled)		522	1900	120	500	104	-14	172.11	30.99	64.63	205.19
		2	(untitled)		237	1900	120	1900	12	622	0.13	0.01	0.02	33.18
	G	1	(untitled)	F	377	2050	28	485	78	16	49.67	8.22	30.25	65.73
		2	(untitled)	F	161	2050	28	500	32	179	41.12	2.77	10.43	52.57
	Gf	1	(untitled)		374	2050	120	2050	18	393	0.20	2.34	34.61	3.12
		2	(untitled)		135	2050	120	2049	7	1266	0.07	2.32	34.71	2.95
	xA	1	(untitled)		1554	2263	120	2068	75	20	3.28	10.40	26.05	20.50
		2	(untitled)		1343	2263	120	2201	61	48	1.35	2.80	6.99	18.60
	xB	1	(untitled)		1367	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.48
	xC	1	(untitled)		612	1900	120	1193	51	76	8.03	11.86	59.01	16.70
		2	(untitled)		346	1900	120	1379	25	258	2.91	4.71	23.35	11.61
	xD	1	(untitled)		634	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.13
		2	(untitled)		242	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.21
	xE	1	(untitled)		1110	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
		2	(untitled)		351	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	xF	1	(untitled)		640	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	7.51
	Cc1	1	(untitled)	E	420	2050	64	1128	37	142	7.26	2.64	15.84	13.92
	E1	1	(untitled)	G	307	2050	28	513	60	50	36.69	5.54	39.84	42.69
		2	(untitled)	G	537	2200	28	550	98	-8	124.02	22.32	160.41	130.02
	Gf1	1	(untitled)		29	670	120	670	4	1971	1.81	0.21	2.48	5.50
	Cc2	2	(untitled)	D	567	2150	66	1198	47	90	11.34	5.32	33.41	18.40
		3	(untitled)	D	760	2050	66	1162	65	38	14.32	13.53	87.15	21.67
		4	(untitled)	D	854	2150	66	866	99	-9	69.49	24.19	156.37	76.46
		5	(untitled)	D	570	2050	66	1161	49	83	17.37	11.88	77.06	25.35

	E2	3	(untitled)	H	374	2150	28	521	72	25	29.26	6.04	65.20	33.26
		4	(untitled)	H	135	2050	28	513	26	242	19.34	2.37	25.04	23.41
	TC5	2	(untitled)	A	1177	2263	99	1905	62	46	2.48	3.40	84.82	5.24
		3	(untitled)	A	1343	2263	99	1905	71	28	2.61	3.64	91.03	5.37
		4	(untitled)	C	0	1800	11	180	0	Unrestricted	0.00	0.00	0.00	0.00
	TC9	1	(untitled)	B	554	1925	72	1203	46	95	13.12	9.19	57.60	24.13
		2	(untitled)	B	317	1966	72	1229	26	249	10.57	4.54	28.36	21.63
		3	(untitled)	B	294	1947	72	1217	24	273	10.41	4.04	25.06	21.53
	TC35	1	(untitled)	A	377	1900	99	1599	24	282	1.70	1.49	35.36	4.60
	TC36	1	(untitled)		72	1800	120	1800	4	2150	0.04	0.00	0.02	3.07
	TC37	1	(untitled)	J	19	1850	105	1634	1	7641	0.89	0.07	0.96	4.08
	TC38	1	(untitled)		19	242	120	242	8	1046	4.00	2.42	65.24	5.53
	TC39	2	(untitled)		1177	2263	120	2263	52	73	0.86	0.28	4.59	3.40
		3	(untitled)		1343	2263	120	2263	59	52	1.16	0.43	7.47	3.55
	TC40	2	(untitled)		1196	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		1343	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC41	1	(untitled)	D	53	1850	10	170	31	188	55.78	2.49	26.17	59.72
	TC42	1	(untitled)	E	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC43	1	(untitled)		0	1800	120	1800	0	Unrestricted	0.00	0.00	0.00	0.00
	47	1	(untitled)		958	1300	120	1300	74	22	3.84	1.02	4.40	19.88
	48	1	(untitled)		1574	1965	120	1384	114	-21	232.79	120.87	1260.86	239.41
	49	1	(untitled)		566	1900	120	1900	30	202	0.40	0.06	1.38	3.55
		2	(untitled)		611	1900	120	1900	32	180	0.45	0.08	1.67	3.60
	50	1	(untitled)		1817	1900	120	1900	96	-6	16.88	8.52	101.78	22.66
	51	1	(untitled)		759	1900	120	1900	40	125	0.63	0.13	2.04	5.13
	52	1	Dewsbury Road NB Bus Gate	A	14	1800	7	11	125	-28	629.68	2.65	7.62	653.68
	53	1		J	12	1800	7	120	10	800	54.40	0.38	2.38	65.40
	54	1		A	1367	1800	104	1575	87	4	11.50	27.34	628.88	13.75
	55	1		A	640	1800	104	1575	41	121	1.71	6.26	179.87	4.11

Data Entry - Stage Start and End

Resultant Stage

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
11	1	✓	1	A	0	7	7	1	7
	2	✓	2	B	12	115	103	1	7
12	1	✓	1	A	103	87	104	1	7
	2	✓	2	B	92	98	6	1	6
13	1	✓	1	A	44	28	104	1	7
	2	✓	2	B	33	39	6	1	6
769-1	1	✓	1	A	96	5	29	1	7
	2	✓	2	B	12	31	19	1	7
	3		1	A	36	65	29	1	7
	4		2	B	72	91	19	1	7
769-2	1	✓	4	D,E,H,I	97	4	27	1	3
	2	✓	5	F,G,J,K	15	23	8	1	8
	3		4	D,E,H,I	37	64	27	1	3
	4		5	F,G,J,K	75	83	8	1	8
770-1	1	✓	1	A,C	101	10	29	1	5
	2	✓	2	B	17	36	19	1	7
	3		1	A,C	41	70	29	1	5
	4		2	B	77	96	19	1	7
770-2	1	✓	4	D	36	17	101	1	7
	2	✓	5	E	22	29	7	1	5
770-3	1	✓	7	F,I,J	100	10	30	1	2
	2	✓	9	G,H	21	28	7	1	1
	3		7	F,I,J	40	70	30	1	2
	4		9	G,H	81	88	7	1	1
770-4	1	✓	11	L	39	19	100	1	7
	2	✓	12	M	24	32	8	1	6
771-1	1	✓	1	A,C	105	21	36	1	9
	2	✓	3	B	32	40	8	1	7
	3		1	A,C	45	81	36	1	9
	4		3	B	92	100	8	1	7
771-2	1	✓	5	D	106	18	32	1	7
	2	✓	6	E	23	41	18	1	7
	3		5	D	46	78	32	1	7
	4		6	E	83	101	18	1	7
TC777-1	1	✓	1	A,B,F	17	89	72	1	7
	2	✓	2	A,C,F,G	94	105	11	1	7
	3	✓	5	D,H,I	112	0	8	1	6
	4	✓	7	J,F,A	6	12	6	1	6
TC777-2	1	✓	1	J	45	30	105	1	7
	2	✓	2	K	35	40	5	1	5

Data Entry - Phase

Phase

Controller Stream	Phase	Phase	Minimum green (s)	Maximum green (s)	Relative start displacement (s)	Relative end displacement (s)	Type
11	A	A	7	300	0	0	Traffic
	B	B	7	300	0	0	Traffic
12	A	A	7	300	0	0	Traffic
	B	B	6	300	0	0	Pedestrian
13	A	A	7	300	0	0	Traffic
	B	B	6	300	0	0	Pedestrian
769-1	A	A	7	300	0	0	Traffic
	B	B	7	300	0	0	Traffic
	C	C	7	300	0	0	Pedestrian
769-2	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
	F	F	4	300	0	0	Traffic
	G	G	4	300	0	0	Traffic
	H	H	5	300	0	0	Pedestrian
	I	I	7	300	0	0	Pedestrian
	J	J	10	300	0	0	Pedestrian
	K	K	5	300	0	0	Pedestrian
770-1	A	A	7	300	0	0	Traffic
	B	B	7	300	0	0	Traffic
	C	C	5	300	0	0	Pedestrian
770-2	D	D	7	300	0	0	Traffic
	E	E	5	300	0	0	Pedestrian
770-3	F	F	7	300	0	0	Traffic
	G	G	4	300	0	0	Traffic
	H	H	4	300	0	0	Traffic
	I	I	5	300	0	0	Pedestrian
	J	J	5	300	0	0	Pedestrian
	K	K	10	300	0	0	Pedestrian
770-4	L	L	7	300	0	0	Traffic
	M	M	6	300	0	0	Pedestrian
771-1	A	A	7	300	0	0	Traffic
	B	B	7	300	0	0	Traffic
	C	C	9	300	0	0	Pedestrian
771-2	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
TC777-1	A	A	7	300	0	1	Traffic
	B	B	7	300	0	2	Traffic
	C	C	7	300	0	0	Traffic
	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
	F	F	5	300	0	0	Pedestrian
	G	G	7	300	0	0	Pedestrian
	H	H	6	300	0	0	Pedestrian
	I	I	5	300	0	0	Pedestrian
	J	J	7	300	0	0	Traffic
TC777-2	J	J	7	300	0	0	Traffic
	K	K	5	300	0	0	Pedestrian

Data Entry - Traffic Stream

Traffic Stream

Arm	Traffic Stream	Auto length	Length (m)	Traffic model	Max queue storage (PCU)	Traffic type	Has Saturation Flow	Is signal controlled	Is give way	Saturation flow source	Saturation flow (PCU/hr)	Delay weighting multiplier (%)	Stop weighting multiplier (%)
A	1	✓	74.52	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	76.88	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	3	✓	78.61	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	4	✓	80.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ac	1	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
Acf	1	✓	69.59	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	70.42	CTM	0.00	Normal	✓			Directly entered	2263	100	100
Af	1	✓	54.74	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	54.70	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	3	✓	54.88	CTM	0.00	Normal	✓			Directly entered	2050	100	100
B	1	✓	94.67	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Bc	1	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Bcf	1	✓	62.67	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	63.14	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.35	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	62.25	CTM	0.00	Normal	✓			Directly entered	2263	100	100
Bf	1	✓	227.81	CTM	0.00	Normal	✓			Sum of lanes	1800	100	100
	2	✓	228.44	CTM	0.00	Normal	✓			Sum of lanes	1800	100	100
C	1	✓	121.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	122.36	CTM	0.00	Normal	✓	✓		Directly entered	2200	100	100
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Cf	1	✓	144.60	CTM	0.00	Normal	✓			Sum of lanes	1965	100	100
	2	✓	145.86	CTM	0.00	Normal	✓			Sum of lanes	1965	100	100
D	1		55.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100

	3	✓	59.42	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
Dc	1	✓	50.67	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	48.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	46.78	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	4	✓	44.83	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
Dcf	1	✓	65.95	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.92	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	68.61	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	66.73	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.90	CTM	0.00	Normal	✓			Directly entered	2100	100	100
Df	1		200.00	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1900	100	100
	2		200.00	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2250	100	100
Dxp	1	✓	46.62	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.64	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	1	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	4	✓	45.93	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
Ecf	1	✓	45.94	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	2	✓	46.37	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	46.93	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	50.37	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	1	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	1	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	1	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
Fc	1	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
Ff	1	✓	275.73	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
	2	✓	275.39	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100

G	1	✓	156.15	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	152.60	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Gf	1	✓	38.89	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	38.45	CTM	0.00	Normal	✓			Directly entered	2050	100	100
xA	1	✓	229.66	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	229.97	CTM	0.00	Normal	✓			Directly entered	2263	100	100
xB	1	✓	59.77	NetworkDefault	0.00	Normal						100	100
xC	1	✓	115.60	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
	2	✓	115.98	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
xD	1	✓	121.71	NetworkDefault	0.00	Normal						100	100
	2	✓	122.74	NetworkDefault	0.00	Normal						100	100
xE	1	✓	173.89	NetworkDefault	0.00	Normal						100	100
	2	✓	173.83	NetworkDefault	0.00	Normal						100	100
xF	1	✓	100.14	NetworkDefault	0.00	Normal						100	100
Cc1	1	✓	95.84	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
E1	1		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	100	100
Gf1	1	✓	49.26	NetworkDefault	0.00	Normal			✓			100	100
Cc2	2	✓	91.58	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	3	✓	89.25	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	4	✓	88.96	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	5	✓	88.65	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
E2	3	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
TC5	2	✓	23.03	CTM	0.00	Normal	✓	✓		Sum of lanes	2263	100	100
	3	✓	23.02	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	4	✓	24.43	CTM	0.00	Normal	✓	✓		Sum of lanes	1800	100	100
TC9	1	✓	91.71	CTM	0.00	Normal	✓	✓		Directly entered	1925	100	100
	2	✓	92.11	CTM	0.00	Normal	✓	✓		Sum of lanes	1966	100	100
	3	✓	92.69	CTM	0.00	Normal	✓	✓		Sum of lanes	1947	100	100
TC35	1	✓	24.16	CTM	0.00	Normal	✓	✓		Directly entered	1900	100	100
TC36	1	✓	25.22	NetworkDefault	0.00	Normal	✓			Sum of lanes	1800	100	100
TC37	1	✓	44.32	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
TC38	1	✓	21.32	CTM	0.00	Normal	✓		✓	Directly entered	1850	100	100
TC39	2	✓	35.24	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	33.28	CTM	0.00	Normal	✓			Directly entered	2263	100	100
TC40	2	✓	58.74	PDM	0.00	Normal						100	100
	3	✓	55.82	PDM	0.00	Normal						100	100

TC41	**1**	✓	54.63	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
TC42	**1**	✓	23.35	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1771	100	100
TC43	**1**	✓	51.77	NetworkDefault	0.00	Normal	✓			Sum of lanes	1800	100	100
47	**1**	✓	133.63	CTM	0.00	Normal	✓			Directly entered	1300	100	100
48	**1**	✓	55.12	NetworkDefault	0.00	Normal	✓			Sum of lanes	1965	100	100
49	**1**	✓	26.24	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	26.24	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
50	**1**	✓	48.15	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
51	**1**	✓	37.47	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
52	**1**		200.00	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1800	100	100
53	**1**		91.71	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1800	100	100
54	**1**		25.00	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1800	100	100
55	**1**		20.00	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1800	100	100

Data entry - Link

Results - Pedestrian

Pedestrian Crossings: Pedestrian summary

Time Segment	Pedestrian crossing	Side	Calculated Flow Entering (Ped/hr)	Degree of saturation (%)	Actual green (s (per cycle))	Mean Delay Per Ped (s)	Mean max queue (Ped)
07:30-08:30	1	1	0	0	7	0.00	0.00
		2	0	0	7	0.00	0.00
	2	1	0	0	58	0.00	0.00
		2	0	0	58	0.00	0.00
	3	1	0	0	8	0.00	0.00
		2	0	0	8	0.00	0.00
	4	1	0	0	68	0.00	0.00
		2	0	0	68	0.00	0.00
	5	1	0	0	68	0.00	0.00
		2	0	0	68	0.00	0.00
	6	1	0	0	0	0.00	0.00
		2	0	0	0	0.00	0.00
	7	1	0	0	72	0.00	0.00
		2	0	0	72	0.00	0.00
	8	1	0	0	0	0.00	0.00
		2	0	0	0	0.00	0.00
	9	1	0	0	20	0.00	0.00
		2	0	0	20	0.00	0.00
	10	1	0	0	32	0.00	0.00
		2	0	0	32	0.00	0.00
	11	1	0	0	64	0.00	0.00
		2	0	0	64	0.00	0.00
	12	1	0	0	62	0.00	0.00
		2	0	0	62	0.00	0.00
	13	1	0	0	10	0.00	0.00
		2	0	0	10	0.00	0.00
	14	1	0	0	100	0.00	0.00
		2	0	0	100	0.00	0.00
	15	1	0	0	11	0.00	0.00
		2	0	0	11	0.00	0.00
	16	1	0	0	8	0.00	0.00
		2	0	0	8	0.00	0.00
	17	1	0	0	5	0.00	0.00
		2	0	0	5	0.00	0.00
	18	1	0	0	6	0.00	0.00
		2	0	0	6	0.00	0.00
	19	1	0	0	6	0.00	0.00
		2	0	0	6	0.00	0.00

Traffic Stream Results

Traffic Stream Results: Vehicle summary

Time Segment	Arm	Traffic Stream	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)
	A	1	57	57	372	2050	36	17.02	5.91	45.62	24.98	6.62	31.60
		2	33	174	213	2050	36	13.62	3.00	22.44	11.45	3.53	14.98
		3	52	73	338	2050	36	12.14	4.07	29.75	16.19	4.94	21.13

		4	47	90	307	2050	36	11.70	3.72	26.65	14.16	4.36	18.52
	Ac	1	80	13	995	2263	64	11.83	6.29	37.76	46.44	10.53	56.97
		2	16	476	186	2263	64	0.83	1.81	11.27	0.61	0.53	1.13
		3	25	261	310	2263	64	1.03	4.70	30.76	1.27	1.77	3.04
	Acf	1	52	72	1181	2263	120	0.87	0.28	2.35	4.04	0.00	4.04
		2	14	557	310	2263	120	0.13	0.01	0.09	0.15	0.00	0.15
	Af	1	29	215	585	2050	120	0.35	0.06	0.60	0.81	0.00	0.81
		2	16	446	338	2050	120	0.17	0.02	0.17	0.23	0.00	0.23
		3	15	501	307	2050	120	0.15	0.01	0.14	0.19	0.00	0.19
	B	1	45	101	306	2050	38	17.80	3.75	22.78	21.49	7.22	28.71
		2	60	49	428	2150	38	20.60	5.75	33.99	34.78	11.00	45.78
		3	74	21	513	2100	38	25.24	7.41	42.74	51.08	14.21	65.28
		4	83	8	570	2050	38	31.10	10.01	56.20	69.93	7.45	77.38
	Bc	1	42	112	435	2050	58	4.70	2.09	9.04	8.06	1.34	9.40
		2	58	54	532	2050	58	8.32	2.69	11.78	17.46	4.94	22.40
		3	38	138	387	2050	58	3.27	2.05	9.05	4.99	0.89	5.88
	Bcf	1	60	49	1367	2263	120	1.21	0.46	4.22	6.53	0.00	6.53
		2	19	369	435	2263	120	0.19	0.02	0.21	0.32	0.00	0.32
		3	24	283	532	2263	120	0.24	0.04	0.33	0.51	0.00	0.51
		4	17	426	387	2263	120	0.16	0.02	0.16	0.25	0.00	0.25
	Bf	1	41	121	734	1800	120	0.69	0.14	0.35	1.99	0.00	1.99
		2	60	50	1083	1800	120	1.51	0.45	1.14	6.43	0.00	6.43
	C	1	88	2	495	2100	30	50.72	10.94	51.92	99.02	8.03	107.05
		2	96	-6	564	2200	30	136.40	27.38	128.65	303.67	17.70	321.37
		3	59	52	324	2050	30	23.53	5.84	26.98	30.11	4.38	34.49
	Cf	1	25	257	495	1965	120	0.31	0.04	0.17	0.60	0.00	0.60
		2	100	-10	889	1965	120	108.43	39.06	153.98	380.16	23.42	403.58
	D	1	50	82	339	2050	38	27.16	4.61	48.17	36.28	8.75	45.03
		2	100	-10	617	1850	38	105.73	21.21	221.75	257.17	26.79	283.96
		3	100	-10	711	2250	38	97.37	22.13	214.13	273.14	27.49	300.62
	Dc	1	86	4	967	2100	62	19.12	9.55	108.39	72.95	18.24	91.18
		2	67	35	748	2100	62	11.63	7.32	86.37	34.29	14.12	48.41
		3	72	25	665	2100	62	11.26	6.34	77.97	29.57	12.09	41.66
		4	84	7	894	2100	62	17.02	8.63	110.72	60.05	17.77	77.82
	Dcf	1	31	190	636	2050	120	0.39	0.07	0.61	0.99	0.01	1.00
		2	83	8	1206	2100	120	12.05	10.78	94.00	57.29	19.77	77.06
		3	40	125	747	2100	120	0.83	2.36	19.76	2.44	1.39	3.83
		4	32	184	665	2100	120	0.40	0.07	0.63	1.04	0.00	1.04
		5	50	79	894	2100	120	4.89	9.89	85.01	17.25	11.64	28.88
	Df	1	121	-25	1140	1900	103	328.42	131.21	377.22	1476.78	32.69	1509.47
		2	110	-18	782	2250	103	197.05	51.43	147.86	607.82	24.10	631.92
	Dxp	1	36	147	636	2050	101	0.97	1.16	14.37	2.44	0.99	3.43
		2	14	557	239	2050	101	0.40	0.17	2.05	0.38	0.16	0.53
	Ec	1	46	97	588	2150	70	5.84	3.61	41.50	13.55	6.78	20.33
		2	90	0	1227	2263	70	16.52	10.82	128.51	79.95	20.46	100.41
		3	83	8	1127	2263	70	8.41	5.70	70.06	37.36	10.85	48.21
		4	37	140	505	2250	70	11.42	6.93	86.75	22.77	13.29	36.06
	Ecf	1	53	70	1109	2100	120	0.98	4.94	61.84	4.27	0.69	4.96
		2	45	101	942	2100	120	0.70	0.18	2.26	2.58	0.03	2.61
		3	69	30	1227	2263	120	5.31	6.82	83.55	25.68	12.12	37.80
		4	82	9	1661	2300	120	5.12	7.26	82.91	33.52	10.77	44.29
	Ef	1	107	-16	900	1900	120	148.98	47.77	215.34	528.89	25.58	554.47
		2	27	236	509	1900	120	0.35	0.05	0.22	0.70	0.00	0.70
	Exp	1	64	40	1110	2050	100	2.70	5.26	58.39	11.83	3.99	15.82
		2	20	342	351	2050	100	0.27	2.34	25.10	0.38	0.08	0.45
07:30-08:30	F	1	100	-10	315	2100	16	231.15	22.31	150.72	287.21	27.01	314.22
		2	59	53	185	2100	16	42.28	3.49	23.41	30.82	6.69	37.51
		3	75	20	237	2100	16	41.03	4.58	30.19	38.36	8.68	47.04

	Fc	1	89	1	1440	2263	84	10.39	8.64	27.11	59.02	8.36	67.37
		2	77	17	1168	2263	84	7.04	11.41	36.17	32.44	7.79	40.23
		3	65	39	1043	2263	84	5.34	18.40	58.68	21.97	10.27	32.24
	Ff	1	104	-14	522	1900	120	172.11	30.99	64.63	354.37	14.62	368.99
		2	12	622	237	1900	120	0.13	0.01	0.02	0.13	0.00	0.13
	G	1	78	16	377	2050	28	49.67	8.22	30.25	73.81	7.86	81.67
		2	32	179	161	2050	28	41.12	2.77	10.43	26.18	5.68	31.86
	Gf	1	18	393	374	2050	120	0.20	2.34	34.61	0.29	0.05	0.34
		2	7	1266	135	2050	120	0.07	2.32	34.71	0.04	0.03	0.06
	xA	1	75	20	1554	2263	120	3.28	10.40	26.05	20.08	6.19	26.27
		2	61	48	1343	2263	120	1.35	2.80	6.99	7.16	1.45	8.62
	xB	1	0	Unrestricted	1367	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	xC	1	51	76	612	1900	120	8.03	11.86	59.01	19.37	11.65	31.02
		2	25	258	346	1900	120	2.91	4.71	23.35	3.97	4.93	8.90
	xD	1	0	Unrestricted	634	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	Unrestricted	242	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	xE	1	0	Unrestricted	1110	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	Unrestricted	351	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	xF	1	0	Unrestricted	640	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	Cc1	1	37	142	420	2050	64	7.26	2.64	15.84	12.03	4.77	16.80
	E1	1	60	50	307	2050	28	36.69	5.54	39.84	44.39	10.66	55.05
		2	98	-8	537	2200	28	124.02	22.32	160.41	262.94	32.98	295.92
	Gf1	1	4	1971	29	670	120	1.81	0.21	2.48	0.21	0.30	0.51
	Cc2	2	47	90	567	2150	66	11.34	5.32	33.41	25.37	11.30	36.67
		3	65	38	760	2050	66	14.32	13.53	87.15	42.92	17.60	60.53
		4	99	-9	854	2150	66	69.49	24.19	156.37	233.96	41.39	275.34
		5	49	83	570	2050	66	17.37	11.88	77.06	39.05	13.61	52.66
	E2	3	72	25	374	2150	28	29.26	6.04	65.20	43.17	11.50	54.67
		4	26	242	135	2050	28	19.34	2.37	25.04	10.30	3.34	13.64
	TC5	2	62	46	1177	2263	99	2.48	3.40	84.82	11.50	1.28	12.78
		3	71	28	1343	2263	99	2.61	3.64	91.03	13.82	1.36	15.18
		4	0	Unrestricted	0	1800	11	0.00	0.00	0.00	0.00	0.00	0.00
	TC9	1	46	95	554	1925	72	13.12	9.19	57.60	28.68	3.41	32.08
		2	26	249	317	1966	72	10.57	4.54	28.36	13.22	1.69	14.91
		3	24	273	294	1947	72	10.41	4.04	25.06	12.07	1.52	13.59
	TC35	1	24	282	377	1900	99	1.70	1.49	35.36	2.53	0.57	3.10
	TC36	1	4	2150	72	1800	120	0.04	0.00	0.02	0.01	0.00	0.01
	TC37	1	1	7641	19	1850	105	0.89	0.07	0.96	0.07	0.08	0.14
	TC38	1	8	1046	19	242	120	4.00	2.42	65.24	0.30	0.38	0.68
	TC39	2	52	73	1177	2263	120	0.86	0.28	4.59	4.00	0.00	4.00
		3	59	52	1343	2263	120	1.16	0.43	7.47	6.14	0.00	6.14
	TC40	2	0	Unrestricted	1196	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
		3	0	Unrestricted	1343	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	TC41	1	31	188	53	1850	10	55.78	2.49	26.17	11.66	1.75	13.41
	TC42	1	0	-100	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	TC43	1	0	Unrestricted	0	1800	120	0.00	0.00	0.00	0.00	0.00	0.00
	47	1	74	22	958	1300	120	3.84	1.02	4.40	14.51	0.00	14.51
	48	1	114	-21	1574	1965	120	232.79	120.87	1260.86	1445.31	50.71	1496.02
	49	1	30	202	566	1900	120	0.40	0.06	1.38	0.90	0.00	0.90
		2	32	180	611	1900	120	0.45	0.08	1.67	1.08	0.00	1.08
	50	1	96	-6	1817	1900	120	16.88	8.52	101.78	121.01	0.00	121.01
	51	1	40	125	759	1900	120	0.63	0.13	2.04	1.88	0.00	1.88
	52	1	125	-28	14	1800	7	629.68	2.65	7.62	34.77	0.46	35.23
	53	1	10	800	12	1800	7	54.40	0.38	2.38	2.57	0.14	2.72
	54	1	87	4	1367	1800	104	11.50	27.34	628.88	62.04	21.49	83.53
	55	1	41	121	640	1800	104	1.71	6.26	179.87	4.32	1.92	6.24

Traffic Stream Results: Flows and signals

Time Segment	Arm	Traffic Stream	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))
	A	1	372	372	0		2050	649	57		57	0.73	36
		2	213	213	0		2050	649	33		174	0.74	36
		3	338	338	-2	✓	2050	649	52		73	0.74	36
		4	307	307	-2	✓	2050	649	47		90	0.72	36
	Ac	1	995	995	85	✓	2263	1245	80		13	1.02	64
		2	186	186	7	✓	2263	1189	16		476	1.76	64
		3	310	310	3	✓	2263	1245	25		261	1.24	64
	Acf	1	1181	1181	92	✓	2263	2263	52		72	0.85	120
		2	310	310	3	✓	2263	2263	14		557	1.24	120
	Af	1	585	585	0		2050	2050	29		215	0.72	120
		2	338	338	-2	✓	2050	2050	16		446	0.74	120
		3	307	307	-2	✓	2050	2050	15		501	0.72	120
	B	1	306	306	0		2050	683	45		101	0.00	38
		2	428	428	0		2150	708	60		49	0.00	38
		3	513	513	0		2100	689	74		21	0.00	38
		4	570	570	0		2050	683	83		8	0.00	38
	Bc	1	435	435	7	✓	2050	1025	42		112	1.30	58
		2	532	532	1	✓	2050	911	58		54	1.03	58
		3	387	387	-2	✓	2050	1023	38		138	1.29	58
	Bcf	1	1367	1367	85	✓	2263	2263	60		49	0.61	120
		2	435	435	7	✓	2263	2263	19		369	1.30	120
		3	532	532	1	✓	2263	2263	24		283	1.03	120
		4	387	387	-2	✓	2263	2263	17		426	1.29	120
	Bf	1	734	734	0		1800	1800	41		121	0.00	120
		2	1083	1083	0		1800	1800	60		50	0.00	120
	C	1	495	495	68	✓	2100	560	88		2	0.53	30
		2	564	564	78	✓	2200	587	96	✓	-6	1.02	30
		3	324	324	45	✓	2050	547	59		52	1.02	30
	Cf	1	495	495	68	✓	1965	1965	25		257	0.53	120
		2	889	889	122	✓	1965	889	100	✓	-10	0.53	120
	D	1	339	339	70	✓	2050	683	50		82	0.89	38
		2	617	617	128	✓	1850	617	100	✓	-10	0.87	38
		3	711	711	71	✓	2250	711	100	✓	-10	1.04	38
	Dc	1	967	964	49	✓	2100	1120	86		4	0.66	62
		2	748	748	48	✓	2100	1120	67		35	0.72	62
		3	665	665	26	✓	2100	926	72		25	0.75	62
		4	894	894	45	✓	2100	1060	84		7	0.88	62
	Dcf	1	636	636	7	✓	2050	2050	31		190	0.99	120
		2	1206	1206	50	✓	2100	1447	83		8	0.55	120
		3	747	748	48	✓	2100	1869	40		125	0.67	120
		4	665	665	26	✓	2100	2100	32		184	0.75	120
		5	894	894	45	✓	2100	1782	50		79	1.10	120
	Df	1	1140	944	0		1900	944	121	✓	-25	0.00	103
		2	782	711	0		2250	711	110	✓	-18	0.00	103
	Dxp	1	636	634	7	✓	2050	1743	36		147	0.89	101
		2	239	242	1	✓	2050	1743	14		557	1.11	101
	Ec	1	588	588	74	✓	2150	1290	46		97	0.87	70
		2	1227	1227	142	✓	2263	1358	90	✓	0	0.65	70
		3	1127	1127	72	✓	2263	1358	83		8	0.72	70
		4	505	505	52	✓	2250	1350	37		140	1.05	70
	Ecf	1	1109	1110	82	✓	2100	2096	53		70	0.69	120
		2	942	940	88	✓	2100	2100	45		101	0.77	120
		3	1227	1227	142	✓	2263	1772	69		30	0.53	120
		4	1661	1661	127	✓	2300	2019	82		9	0.43	120

07:30-08:30	Ef	1	900	844	-1	✓	1900	844	107	✓	-16	0.00	120
		2	509	509	0		1900	1900	27		236	0.00	120
	Exp	1	1110	1110	81	✓	2050	1725	64		40	0.69	100
		2	351	351	16	✓	2050	1725	20		342	1.12	100
	F	1	315	315	14	✓	2100	315	100	✓	-10	1.11	16
		2	185	185	7	✓	2100	315	59		53	1.11	16
		3	237	237	-1		2100	315	75		20	0.00	16
	Fc	1	1440	1440	157	✓	2263	1622	89		1	0.60	84
		2	1168	1168	75	✓	2263	1513	77		17	0.85	84
		3	1043	1043	86	✓	2263	1607	65		39	1.02	84
	Ff	1	522	500	-1	✓	1900	500	104	✓	-14	0.00	120
		2	237	237	-1		1900	1900	12		622	0.00	120
	G	1	377	377	0		2050	485	78		16	1.49	28
		2	161	161	3	✓	2050	500	32		179	1.41	28
	Gf	1	374	374	0		2050	2050	18		393	1.50	120
		2	135	135	0		2050	2049	7		1266	1.50	120
	xA	1	1554	1554	139	✓	2263	2068	75		20	0.42	120
		2	1343	1343	104	✓	2263	2201	61		48	0.73	120
	xB	1	1367	1367	85	✓	Unrestricted	Unrestricted	0		Unrestricted	0.37	120
	xC	1	612	612	4	✓	1900	1193	51		76	1.09	120
		2	346	346	6	✓	1900	1379	25		258	1.21	120
	xD	1	634	632	9	✓	Unrestricted	Unrestricted	0		Unrestricted	0.80	120
		2	242	241	-1	✓	Unrestricted	Unrestricted	0		Unrestricted	0.97	120
	xE	1	1110	1110	81	✓	Unrestricted	Unrestricted	0		Unrestricted	0.58	120
		2	351	351	16	✓	Unrestricted	Unrestricted	0		Unrestricted	0.97	120
	xF	1	640	640	77	✓	Unrestricted	Unrestricted	0		Unrestricted	0.77	120
	Cc1	1	420	420	7	✓	2050	1128	37		142	1.10	64
	E1	1	307	307	20	✓	2050	513	60		50	0.94	28
		2	537	537	35	✓	2200	550	98	✓	-8	0.94	28
	Gf1	1	29	29	3	✓	670	670	4		1971	1.09	120
	Cc2	2	567	571	1	✓	2150	1198	47		90	0.89	66
		3	760	760	-1	✓	2050	1162	65		38	1.02	66
		4	854	864	-1	✓	2150	866	99	✓	-9	0.77	66
		5	570	570	0		2050	1161	49		83	1.33	66
	E2	3	374	374	0		2150	521	72		25	0.00	28
		4	135	135	0		2050	513	26		242	0.00	28
	TC5	2	1177	1177	121	✓	2263	1905	62		46	0.48	99
		3	1343	1343	104	✓	2263	1905	71		28	0.72	99
		4	0	0	0		1800	180	0		Unrestricted	0.00	11
	TC9	1	554	554	0		1925	1203	46		95	0.00	72
		2	317	317	0		1966	1229	26		249	0.00	72
		3	294	294	0		1947	1217	24		273	0.00	72
	TC35	1	377	377	18	✓	1900	1599	24		282	0.72	99
	TC36	1	72	72	-4	✓	1800	1800	4		2150	0.00	120
	TC37	1	19	19	0		1850	1634	1		7641	0.00	105
	TC38	1	19	19	0		242	242	8		1046	0.23	120
	TC39	2	1177	1177	121	✓	2263	2263	52		73	0.56	120
		3	1343	1343	104	✓	2263	2263	59		52	0.75	120
	TC40	2	1196	1196	121	✓	Unrestricted	Unrestricted	0		Unrestricted	0.47	120
		3	1343	1343	104	✓	Unrestricted	Unrestricted	0		Unrestricted	0.63	120
	TC41	1	53	53	-4	✓	1850	170	31		188	0.00	10
	TC42	1	0	0	0		0	0	0		-100	0.00	0
	TC43	1	0	0	0		1800	1800	0		Unrestricted	0.00	120
	47	1	958	958	10	✓	1300	1300	74		22	0.48	120
	48	1	1574	1384	0		1965	1384	114	✓	-21	0.00	120
	49	1	566	566	0		1900	1900	30		202	0.00	120
		2	611	611	0		1900	1900	32		180	0.00	120
	50	1	1817	1817	0		1900	1900	96	✓	-6	0.00	120

	51	**1**	759	759	-2	✓	1900	1900	40		125	0.00	120
	52	**1**	14	11	0		1800	11	125	✓	-28	0.00	7
	53	**1**	12	12	0		1800	120	10		800	0.00	7
	54	**1**	1367	1367	85	✓	1800	1575	87		4	0.53	104
	55	**1**	640	640	77	✓	1800	1575	41		121	0.86	104

Traffic Stream Results: Stops and delays

Time Segment	Arm	Traffic Stream	Mean Cruise Time per Veh (s)	Mean Delay per Veh (s)	Total delay (PCU-hr/hr)	Weighted cost of delay (£ per hr)	Mean stops per Veh (%)	Total stops (Stops per hr)	Weighted cost of stops (£ per hr)
	A	**1**	5.59	17.02	1.76	24.98	55.44	206.24	6.62
		2	5.77	13.62	0.81	11.45	51.62	109.94	3.53
		3	5.90	12.14	1.14	16.19	45.52	153.85	4.94
		4	6.03	11.70	1.00	14.16	44.22	135.76	4.36
	Ac	**1**	7.19	11.83	3.27	46.44	32.97	328.18	10.53
		2	9.50	0.83	0.04	0.61	16.67	30.96	0.53
		3	6.60	1.03	0.09	1.27	17.77	55.13	1.77
	Acf	**1**	5.22	0.87	0.28	4.04	0.00	0.00	0.00
		2	7.24	0.13	0.01	0.15	0.00	0.00	0.00
	Af	**1**	6.57	0.35	0.06	0.81	0.00	0.00	0.00
		2	6.56	0.17	0.02	0.23	0.00	0.00	0.00
		3	6.59	0.15	0.01	0.19	0.00	0.00	0.00
	B	**1**	7.10	17.80	1.51	21.49	73.51	224.95	7.22
		2	7.29	20.60	2.45	34.78	80.05	342.60	11.00
		3	7.48	25.24	3.60	51.08	86.27	442.56	14.21
		4	12.29	31.10	4.92	69.93	104.26	594.25	7.45
	Bc	**1**	11.96	4.70	0.57	8.06	13.83	60.13	1.34
		2	11.83	8.32	1.23	17.46	41.62	221.47	4.94
		3	11.71	3.27	0.35	4.99	10.30	39.85	0.89
	Bcf	**1**	4.16	1.21	0.46	6.53	0.00	0.00	0.00
		2	5.31	0.19	0.02	0.32	0.00	0.00	0.00
		3	5.63	0.24	0.04	0.51	0.00	0.00	0.00
		4	6.04	0.16	0.02	0.25	0.00	0.00	0.00
	Bf	**1**	27.34	0.69	0.14	1.99	0.00	0.00	0.00
		2	27.41	1.51	0.45	6.43	0.00	0.00	0.00
	C	**1**	14.54	50.72	6.97	99.02	129.45	640.74	8.03
		2	14.68	136.40	21.39	303.67	250.08	1411.48	17.70
		3	14.92	23.53	2.12	30.11	107.78	349.64	4.38
	Cf	**1**	17.35	0.31	0.04	0.60	0.00	0.00	0.00
		2	17.50	108.43	26.77	380.16	210.14	1867.81	23.42
	D	**1**	4.13	27.16	2.56	36.28	80.49	272.60	8.75
		2	4.13	105.73	18.11	257.17	135.35	834.69	26.79
		3	4.46	97.37	19.23	273.14	120.41	856.35	27.49
	Dc	**1**	3.80	19.12	5.14	72.95	58.95	568.13	18.24
		2	3.65	11.63	2.41	34.29	58.82	439.81	14.12
		3	3.51	11.26	2.08	29.57	56.62	376.76	12.09
		4	3.36	17.02	4.23	60.05	61.88	553.49	17.77
	Dcf	**1**	4.95	0.39	0.07	0.99	0.04	0.25	0.01
		2	4.94	12.05	4.03	57.29	51.08	615.85	19.77
		3	5.51	0.83	0.17	2.44	6.25	46.75	1.39
		4	7.17	0.40	0.07	1.04	0.00	0.00	0.00
		5	5.02	4.89	1.21	17.25	40.54	362.59	11.64
	Df	**1**	24.00	328.42	104.00	1476.78	276.12	2607.00	32.69
		2	24.00	197.05	42.80	607.82	270.24	1921.91	24.10
	Dxp	**1**	3.50	0.97	0.17	2.44	4.84	30.75	0.99
		2	3.65	0.40	0.03	0.38	2.03	4.88	0.16
	Ec	**1**	3.76	5.84	0.95	13.55	35.91	211.29	6.78
		2	3.63	16.52	5.63	79.95	51.97	637.44	20.46
		3	3.51	8.41	2.63	37.36	30.00	337.94	10.85

07:30-08:30		4	3.44	11.42	1.60	22.77	81.90	413.96	13.29
	Ecf	1	3.45	0.98	0.30	4.27	1.95	21.59	0.69
		2	3.48	0.70	0.18	2.58	0.09	0.83	0.03
		3	3.52	5.31	1.81	25.68	30.77	377.43	12.12
		4	3.85	5.12	2.36	33.52	20.62	342.50	10.77
	Ef	1	15.31	148.98	37.25	528.89	241.67	2040.26	25.58
		2	15.31	0.35	0.05	0.70	0.00	0.00	0.00
	Exp	1	3.89	2.70	0.83	11.83	11.20	124.23	3.99
		2	4.03	0.27	0.03	0.38	0.67	2.35	0.08
	F	1	6.38	231.15	20.23	287.21	267.15	841.53	27.01
		2	6.43	42.28	2.17	30.82	112.87	208.57	6.69
		3	6.54	41.03	2.70	38.36	114.14	270.52	8.68
	Fc	1	19.11	10.39	4.16	59.02	34.84	501.85	8.36
		2	18.73	7.04	2.28	32.44	39.31	459.12	7.79
		3	19.44	5.34	1.55	21.97	63.06	657.66	10.27
	Ff	1	33.09	172.11	24.96	354.37	233.32	1166.11	14.62
		2	33.05	0.13	0.01	0.13	0.00	0.00	0.00
	G	1	16.06	49.67	5.20	73.81	122.27	460.62	7.86
		2	11.45	41.12	1.84	26.18	109.72	177.07	5.68
	Gf	1	2.92	0.20	0.02	0.29	0.40	1.48	0.05
		2	2.88	0.07	0.00	0.04	0.58	0.79	0.03
	xA	1	17.22	3.28	1.41	20.08	12.41	192.82	6.19
		2	17.25	1.35	0.50	7.16	3.37	45.20	1.45
	xB	1	4.48	0.00	0.00	0.00	0.00	0.00	0.00
	xC	1	8.67	8.03	1.36	19.37	59.33	362.94	11.65
		2	8.70	2.91	0.28	3.97	44.36	153.62	4.93
	xD	1	9.13	0.00	0.00	0.00	0.00	0.00	0.00
		2	9.21	0.00	0.00	0.00	0.00	0.00	0.00
	xE	1	13.04	0.00	0.00	0.00	0.00	0.00	0.00
		2	13.04	0.00	0.00	0.00	0.00	0.00	0.00
	xF	1	7.51	0.00	0.00	0.00	0.00	0.00	0.00
	Cc1	1	6.66	7.26	0.85	12.03	29.55	124.10	4.77
	E1	1	6.00	36.69	3.13	44.39	108.22	331.95	10.66
		2	6.00	124.02	18.52	262.94	191.18	1027.58	32.98
	Gf1	1	3.69	1.81	0.01	0.21	32.21	9.37	0.30
	Cc2	2	7.07	11.34	1.79	25.37	61.18	349.30	11.30
		3	7.36	14.32	3.02	42.92	82.00	623.17	17.60
		4	6.97	69.49	16.48	233.96	152.38	1316.69	41.39
		5	7.98	17.37	2.75	39.05	107.15	610.77	13.61
	E2	3	4.00	29.26	3.04	43.17	95.80	358.29	11.50
		4	4.07	19.34	0.73	10.30	77.08	104.06	3.34
	TC5	2	2.76	2.48	0.81	11.50	8.65	101.86	1.28
		3	2.76	2.61	0.97	13.82	8.06	108.22	1.36
		4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TC9	1	11.00	13.12	2.02	28.68	49.02	271.58	3.41
		2	11.05	10.57	0.93	13.22	42.54	134.86	1.69
		3	11.12	10.41	0.85	12.07	41.23	121.20	1.52
	TC35	1	2.90	1.70	0.18	2.53	12.04	45.35	0.57
	TC36	1	3.03	0.04	0.00	0.01	0.00	0.00	0.00
	TC37	1	3.19	0.89	0.00	0.07	11.68	2.22	0.08
	TC38	1	1.53	4.00	0.02	0.30	56.99	10.83	0.38
	TC39	2	2.54	0.86	0.28	4.00	0.00	0.00	0.00
		3	2.40	1.16	0.43	6.14	0.00	0.00	0.00
	TC40	2	4.23	0.00	0.00	0.00	0.00	0.00	0.00
		3	4.02	0.00	0.00	0.00	0.00	0.00	0.00
	TC41	1	3.93	55.78	0.82	11.66	94.79	50.24	1.75
	TC42	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TC43	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	47	1	16.04	3.84	1.02	14.51	0.00	0.00	0.00
	48	1	6.61	232.79	101.78	1445.31	292.29	4044.70	50.71
	49	1	3.15	0.40	0.06	0.90	0.00	0.00	0.00
		2	3.15	0.45	0.08	1.08	0.00	0.00	0.00
	50	1	5.78	16.88	8.52	121.01	0.00	0.00	0.00
	51	1	4.50	0.63	0.13	1.88	0.00	0.00	0.00
	52	1	24.00	629.68	2.45	34.77	328.66	36.75	0.46
	53	1	11.01	54.40	0.18	2.57	93.73	11.25	0.14
	54	1	2.25	11.50	4.37	62.04	70.49	963.86	21.49
	55	1	2.40	1.71	0.30	4.32	23.88	152.80	1.92

Traffic Stream Results: Queues and blocking

Time Segment	Arm	Traffic Stream	Initial queue (PCU)	Mean max queue (PCU)	Max queue storage (PCU)	Utilised storage (%)	Excess queue penalty (£ per hr)	Wasted time total (s (per cycle))	Estimated blocking
	A	1	0.00	5.91	12.96	45.62	0.00	3.00	
		2	0.00	3.00	13.37	22.44	0.00	3.00	
		3	0.00	4.07	13.67	29.75	0.00	3.00	
		4	0.00	3.72	13.97	26.65	0.00	4.00	
	Ac	1	0.00	6.29	16.66	37.76	0.00	8.00	
		2	0.00	1.81	16.06	11.27	0.00	50.95	
		3	0.00	4.70	15.30	30.76	0.00	20.00	
	Acf	1	0.00	0.28	12.10	2.35	0.00	42.00	
		2	0.00	0.01	12.25	0.09	0.00	72.00	
	Af	1	0.00	0.06	9.52	0.60	0.00	40.00	
		2	0.00	0.02	9.51	0.17	0.00	40.00	
		3	0.00	0.01	9.54	0.14	0.00	40.00	
	B	1	0.00	3.75	16.46	22.78	0.00	0.00	
		2	0.00	5.75	16.90	33.99	0.00	0.47	
		3	0.00	7.41	17.34	42.74	0.00	0.62	
		4	0.00	10.01	17.81	56.20	0.00	0.00	
	Bc	1	0.00	2.09	23.10	9.04	0.00	11.00	
		2	0.00	2.69	22.87	11.78	0.00	17.70	
		3	0.00	2.05	22.63	9.05	0.00	16.14	
	Bcf	1	0.00	0.46	10.90	4.22	0.00	92.00	
		2	0.00	0.02	10.98	0.21	0.00	67.00	
		3	0.00	0.04	10.84	0.33	0.00	39.00	
		4	0.00	0.02	10.83	0.16	0.00	70.00	
	Bf	1	0.00	0.14	39.62	0.35	0.00	0.00	
		2	0.00	0.45	39.73	1.14	0.00	0.00	
	C	1	0.00	10.94	21.07	51.92	0.00	0.00	
		2	0.00	27.38	21.28	128.65	0.00	0.00	
		3	0.00	5.84	21.63	26.98	0.00	12.00	
	Cf	1	0.00	0.04	25.15	0.17	0.00	24.00	
		2	0.00	39.06	25.37	153.98	0.00	65.72	
	D	1	0.00	4.61	9.57	48.17	0.00	4.00	
		2	0.00	21.21	9.57	221.75	0.00	0.00	
		3	0.00	22.13	10.33	214.13	0.00	2.07	
	Dc	1	0.00	9.55	8.81	108.39	0.00	0.00	
		2	0.00	7.32	8.47	86.37	0.00	0.00	
		3	0.00	6.34	8.14	77.97	0.00	11.06	
		4	0.00	8.63	7.80	110.72	0.00	11.43	
	Dcf	1	0.00	0.07	11.47	0.61	0.00	34.00	
		2	0.00	10.78	11.46	94.00	0.00	47.29	
		3	0.00	2.36	11.93	19.76	0.00	39.22	
		4	0.00	0.07	11.60	0.63	0.00	28.00	
		5	0.00	9.89	11.64	85.01	0.00	65.19	
	Df	1	0.00	131.21	34.78	377.22	0.00	44.37	
		2	0.00	51.43	34.78	147.86	0.00	66.07	

07:30-08:30	Dxp	1	0.00	1.16	8.11	14.37	0.00	16.00	
		2	0.00	0.17	8.46	2.05	0.00	52.00	
	Ec	1	0.00	3.61	8.71	41.50	0.00	20.00	
		2	0.00	10.82	8.42	128.51	0.00	0.00	
		3	0.00	5.70	8.13	70.06	0.00	0.00	
		4	0.00	6.93	7.99	86.75	0.00	32.00	
	Ecf	1	0.00	4.94	7.99	61.84	0.00	22.22	
		2	0.00	0.18	8.06	2.26	0.00	20.00	
		3	0.00	6.82	8.16	83.55	0.00	34.06	
		4	0.00	7.26	8.76	82.91	0.00	30.65	
	Ef	1	0.00	47.77	22.18	215.34	0.00	66.68	
		2	0.00	0.05	22.18	0.22	0.00	0.00	
	Exp	1	0.00	5.26	9.01	58.39	0.00	15.00	
		2	0.00	2.34	9.34	25.10	0.00	41.00	
	F	1	0.00	22.31	14.80	150.72	0.00	0.00	
		2	0.00	3.49	14.91	23.41	0.00	6.00	
		3	0.00	4.58	15.17	30.19	0.00	0.00	
	Fc	1	0.00	8.64	31.86	27.11	0.00	8.00	
		2	0.00	11.41	31.56	36.17	0.00	17.75	
		3	0.00	18.40	31.35	58.68	0.00	20.81	
	Ff	1	0.00	30.99	47.95	64.63	0.00	88.43	
		2	0.00	0.01	47.89	0.02	0.00	0.00	
	G	1	0.00	8.22	27.16	30.25	0.00	7.61	
		2	0.00	2.77	26.54	10.43	0.00	18.73	
	Gf	1	0.00	2.34	6.76	34.61	0.00	90.01	
		2	0.00	2.32	6.69	34.71	0.00	90.04	
	xA	1	0.00	10.40	39.94	26.05	0.00	26.35	
		2	0.00	2.80	39.99	6.99	0.00	28.29	
	xB	1	0.00	0.00	10.39	0.00	0.00	10.00	
	xC	1	0.00	11.86	20.10	59.01	0.00	57.65	
		2	0.00	4.71	20.17	23.35	0.00	66.89	
	xD	1	0.00	0.00	21.17	0.00	0.00	15.00	
		2	0.00	0.00	21.35	0.00	0.00	54.00	
	xE	1	0.00	0.00	30.24	0.00	0.00	8.00	
		2	0.00	0.00	30.23	0.00	0.00	49.00	
	xF	1	0.00	0.00	17.42	0.00	0.00	17.00	
	Cc1	1	0.00	2.64	16.67	15.84	0.00	13.00	
	E1	1	0.00	5.54	13.91	39.84	0.00	10.00	
		2	0.00	22.32	13.91	160.41	0.00	0.00	
	Gf1	1	0.00	0.21	8.57	2.48	0.00	88.00	
	Cc2	2	0.00	5.32	15.93	33.41	0.00	11.12	
		3	0.00	13.53	15.52	87.15	0.00	8.00	
		4	0.00	24.19	15.47	156.37	0.00	19.67	
		5	0.00	11.88	15.42	77.06	0.00	34.05	
	E2	3	0.00	6.04	9.27	65.20	0.00	0.93	
		4	0.00	2.37	9.45	25.04	0.00	0.00	
	TC5	2	0.00	3.40	4.01	84.82	0.00	12.00	
		3	0.00	3.64	4.00	91.03	0.00	17.00	
		4	0.00	0.00	4.25	0.00	0.00	12.00	
	TC9	1	0.00	9.19	15.95	57.60	0.00	0.00	
		2	0.00	4.54	16.02	28.36	0.00	0.00	
		3	0.00	4.04	16.12	25.06	0.00	0.00	
	TC35	1	0.00	1.49	4.20	35.36	0.00	14.00	
	TC36	1	0.00	0.00	4.39	0.02	0.00	0.00	
	TC37	1	0.00	0.07	7.71	0.96	0.00	105.00	
	TC38	1	0.00	2.42	3.71	65.24	0.00	49.00	
	TC39	2	0.00	0.28	6.13	4.59	0.00	31.00	
		3	0.00	0.43	5.79	7.47	0.00	36.00	

	TC40	2	0.00	0.00	10.22	0.00	0.00	13.00	
		3	0.00	0.00	9.71	0.00	0.00	18.00	
	TC41	1	0.00	2.49	9.50	26.17	0.00	7.00	
	TC42	1	0.00	0.00	4.06	0.00	0.00	0.00	
	TC43	1	0.00	0.00	9.00	0.00	0.00	120.00	
	47	1	0.00	1.02	23.24	4.40	0.00	13.00	
	48	1	0.00	120.87	9.59	1260.86	0.00	35.49	
	49	1	0.00	0.06	4.56	1.38	0.00	0.00	
		2	0.00	0.08	4.56	1.67	0.00	0.00	
	50	1	0.00	8.52	8.37	101.78	0.00	0.00	
	51	1	0.00	0.13	6.52	2.04	0.00	0.00	
	52	1	0.00	2.65	34.78	7.62	0.00	7.26	
	53	1	0.00	0.38	15.95	2.38	0.00	7.00	
	54	1	0.00	27.34	4.35	628.88	0.00	4.00	
	55	1	0.00	6.26	3.48	179.87	0.00	22.00	

Traffic Stream Results: Advanced

Time Segment	Arm	Traffic Stream	Degree of saturation penalty (£ per hr)	Ped gap accepting penalty (£ per hr)	Warmed up	Mean Max Queue EoTS (PCU)	Max End of Green Queue EoTS (PCU)	Max End of Red Queue EoTS (PCU)	PCU Factor	Cost of traffic penalties (£ per hr)	Performance Index (£ per hr)
	A	1	0.00	0.00	✓	5.91	0.38	5.67	1.00	0.00	31.60
		2	0.00	0.00	✓	3.00	0.08	2.94	1.00	0.00	14.98
		3	0.00	0.00	✓	4.07	0.28	3.98	1.00	0.00	21.13
		4	0.00	0.00	✓	3.72	0.21	3.64	1.00	0.00	18.52
	Ac	1	0.00	0.00	✓	6.31	1.58	5.42	1.00	0.00	56.97
		2	0.00	0.00	✓	1.81	0.01	0.01	1.00	0.00	1.13
		3	0.00	0.00	✓	4.70	0.04	0.62	1.00	0.00	3.04
	Acf	1	0.00	0.00	✓	0.28			1.00	0.00	4.04
		2	0.00	0.00	✓	0.01			1.00	0.00	0.15
	Af	1	0.00	0.00	✓	0.06			1.00	0.00	0.81
		2	0.00	0.00	✓	0.02			1.00	0.00	0.23
		3	0.00	0.00	✓	0.01			1.00	0.00	0.19
	B	1	0.00	0.00	✓	3.75	0.18	3.67	1.00	0.00	28.71
		2	0.00	0.00		5.75	0.46	5.44	1.00	0.00	45.78
		3	0.00	0.00	✓	7.42	1.07	7.06	1.00	0.00	65.28
		4	0.00	0.00	✓	10.06	2.05	9.01	1.00	0.00	77.38
	Bc	1	0.00	0.00	✓	2.09	0.16	1.00	1.00	0.00	9.40
		2	0.00	0.00		2.69	0.41	2.36	1.00	0.00	22.40
		3	0.00	0.00		2.05	0.12	0.60	1.00	0.00	5.88
	Bcf	1	0.00	0.00	✓	0.46			1.00	0.00	6.53
		2	0.00	0.00	✓	0.02			1.00	0.00	0.32
		3	0.00	0.00	✓	0.04			1.00	0.00	0.51
		4	0.00	0.00	✓	0.02			1.00	0.00	0.25
	Bf	1	0.00	0.00	✓	0.14			1.00	0.00	1.99
		2	0.00	0.00	✓	0.45			1.00	0.00	6.43
	C	1	0.00	0.00	✓	11.10	3.17	11.09	1.00	0.00	107.05
		2	0.00	0.00	✓	28.84	13.51	28.84	1.00	0.00	321.37
		3	0.00	0.00	✓	5.84	0.43	5.84	1.00	0.00	34.49
	Cf	1	0.00	0.00	✓	0.04			1.00	0.00	0.60
		2	0.00	0.00	✓	45.23			1.00	0.00	403.58
	D	1	0.00	0.00	✓	4.61	0.24	4.61	1.00	0.00	45.03
		2	0.00	0.00	✓	26.35	17.98	26.35	1.00	0.00	283.96
		3	0.00	0.00	✓	27.65	19.09	27.65	1.00	0.00	300.62
	Dc	1	0.00	0.00		9.61	2.67	9.59	1.00	0.00	91.18
		2	0.00	0.00		7.32	0.67	6.96	1.00	0.00	48.41
		3	0.00	0.00	✓	6.35	0.91	4.03	1.00	0.00	41.66
		4	0.00	0.00	✓	8.67	2.24	7.64	1.00	0.00	77.82
		1	0.00	0.00		0.07			1.00	0.00	1.00

07:30-08:30	Dcf	2	0.00	0.00		10.80			1.00	0.00	77.06
		3	0.00	0.00		2.36			1.00	0.00	3.83
		4	0.00	0.00	✓	0.07			1.00	0.00	1.04
		5	0.00	0.00	✓	9.89			1.00	0.00	28.88
	Df	1	0.00	0.00	✓	229.16	198.22	202.41	1.00	0.00	1509.47
		2	0.00	0.00	✓	87.13	76.27	79.44	1.00	0.00	631.92
	Dxp	1	0.00	0.00		1.16	0.10	1.12	1.00	0.00	3.43
		2	0.00	0.00		0.17	0.01	0.17	1.00	0.00	0.53
	Ec	1	0.00	0.00		3.62	0.19	3.50	1.00	0.00	20.33
		2	0.00	0.00	✓	10.96	4.07	10.86	1.00	0.00	100.41
		3	0.00	0.00	✓	5.72	2.00	5.62	1.00	0.00	48.21
		4	0.00	0.00	✓	6.93	0.11	6.72	1.00	0.00	36.06
	Ecf	1	0.00	0.00		4.94			1.00	0.00	4.96
		2	0.00	0.00		0.18			1.00	0.00	2.61
		3	0.00	0.00	✓	6.82			1.00	0.00	37.80
		4	0.00	0.00	✓	7.28			1.00	0.00	44.29
	Ef	1	0.00	0.00	✓	76.26			1.00	0.00	554.47
		2	0.00	0.00	✓	0.05			1.00	0.00	0.70
	Exp	1	0.00	0.00		5.27	0.58	2.66	1.00	0.00	15.82
		2	0.00	0.00		2.34	0.03	0.03	1.00	0.00	0.45
	F	1	0.00	0.00	✓	25.98	19.18	25.98	1.00	0.00	314.22
		2	0.00	0.00	✓	3.49	0.41	3.49	1.00	0.00	37.51
		3	0.00	0.00	✓	4.61	1.12	4.54	1.00	0.00	47.04
	Fc	1	0.00	0.00	✓	8.71	3.44	7.88	1.00	0.00	67.37
		2	0.00	0.00	✓	11.42	1.48	4.66	1.00	0.00	40.23
		3	0.00	0.00	✓	18.40	0.60	5.05	1.00	0.00	32.24
	Ff	1	0.00	0.00		43.44			1.00	0.00	368.99
		2	0.00	0.00	✓	0.01			1.00	0.00	0.13
	G	1	0.00	0.00	✓	8.24	1.33	7.60	1.00	0.00	81.67
		2	0.00	0.00	✓	2.77	0.08	2.77	1.00	0.00	31.86
	Gf	1	0.00	0.00	✓	2.34			1.00	0.00	0.34
		2	0.00	0.00	✓	2.32			1.00	0.00	0.06
	xA	1	0.00	0.00	✓	10.41			1.00	0.00	26.27
		2	0.00	0.00	✓	2.80			1.00	0.00	8.62
	xB	1	0.00	0.00	✓	0.00			1.00	0.00	0.00
	xC	1	0.00	0.00	✓	11.86			1.00	0.00	31.02
		2	0.00	0.00	✓	4.71			1.00	0.00	8.90
	xD	1	0.00	0.00		0.00			1.00	0.00	0.00
		2	0.00	0.00		0.00			1.00	0.00	0.00
	xE	1	0.00	0.00		0.00			1.00	0.00	0.00
		2	0.00	0.00		0.00			1.00	0.00	0.00
	xF	1	0.00	0.00		0.00			1.00	0.00	0.00
	Cc1	1	0.00	0.00	✓	2.64	0.11	2.07	1.00	0.00	16.80
	E1	1	0.00	0.00	✓	5.54	0.44	5.54	1.00	0.00	55.05
		2	0.00	0.00	✓	24.73	13.75	24.72	1.00	0.00	295.92
	Gf1	1	0.00	0.00	✓	0.21			1.00	0.00	0.51
	Cc2	2	0.00	0.00		5.32	0.21	5.24	1.00	0.00	36.67
		3	0.00	0.00		13.53	0.62	9.13	1.00	0.00	60.53
		4	0.00	0.00		27.74	16.27	24.51	1.00	0.00	275.34
		5	0.00	0.00	✓	11.88	0.24	9.58	1.00	0.00	52.66
	E2	3	0.00	0.00	✓	6.05	0.91	5.77	1.00	0.00	54.67
		4	0.00	0.00	✓	2.37	0.05	1.73	1.00	0.00	13.64
	TC5	2	0.00	0.00	✓	3.40	0.50	3.40	1.00	0.00	12.78
		3	0.00	0.00	✓	3.65	0.84	3.42	1.00	0.00	15.18
		4	0.00	0.00	✓	0.00	0.00	0.00	1.00	0.00	0.00
	TC9	1	0.00	0.00	✓	9.19	0.20	7.88	1.00	0.00	32.08
		2	0.00	0.00	✓	4.54	0.04	4.18	1.00	0.00	14.91
		3	0.00	0.00	✓	4.04	0.04	3.88	1.00	0.00	13.59

	TC35	**1**	0.00	0.00	✓	1.49	0.04	1.46	1.00	0.00	3.10
	TC36	**1**	0.00	0.00	✓	0.00			1.00	0.00	0.01
	TC37	**1**	0.00	0.00	✓	0.07	0.00	0.07	1.00	0.00	0.14
	TC38	**1**	0.00	0.00	✓	2.42			1.00	0.00	0.68
	TC39	**2**	0.00	0.00	✓	0.28			1.00	0.00	4.00
		3	0.00	0.00	✓	0.43			1.00	0.00	6.14
	TC40	**2**	0.00	0.00	✓	0.00			1.00	0.00	0.00
		3	0.00	0.00	✓	0.00			1.00	0.00	0.00
	TC41	**1**	0.00	0.00	✓	2.49	0.07	1.68	1.00	0.00	13.41
	TC42	**1**	0.00	0.00	✓	0.00	0.00	0.00	1.00	0.00	0.00
	TC43	**1**	0.00	0.00	✓	0.00			1.00	0.00	0.00
	47	**1**	0.00	0.00	✓	1.03			1.00	0.00	14.51
	48	**1**	0.00	0.00	✓	216.06			1.00	0.00	1496.02
	49	**1**	0.00	0.00	✓	0.06			1.00	0.00	0.90
		2	0.00	0.00	✓	0.08			1.00	0.00	1.08
	50	**1**	0.00	0.00	✓	9.32			1.00	0.00	121.01
	51	**1**	0.00	0.00	✓	0.13			1.00	0.00	1.88
	52	**1**	0.00	0.00	✓	4.33	3.96	4.30	1.00	0.00	35.23
	53	**1**	0.00	0.00	✓	0.38	0.01	0.38	1.00	0.00	2.72
	54	**1**	0.00	0.00	✓	27.39	3.23	9.66	1.00	0.00	83.53
	55	**1**	0.00	0.00		6.26	0.14	1.90	1.00	0.00	6.24

Pedestrian Crossing Results

Pedestrian Crossings: Pedestrian summary

Time Segment	Crossing	Side	Degree of saturation (%)	Calculated Flow Entering (Ped/hr)	Calculated sat flow (Ped/hr)	Actual green (s (per cycle))	Mean Delay Per Ped (s)	Mean max queue (Ped)	Weighted cost of delay (£ per hr)	Performance Index (£ per hr)
07:30-08:30	1	1	0	0	11000	7	0.00	0.00	0.00	0.00
		2	0	0	11000	7	0.00	0.00	0.00	0.00
	2	1	0	0	11000	58	0.00	0.00	0.00	0.00
		2	0	0	11000	58	0.00	0.00	0.00	0.00
	3	1	0	0	11000	8	0.00	0.00	0.00	0.00
		2	0	0	11000	8	0.00	0.00	0.00	0.00
	4	1	0	0	11000	68	0.00	0.00	0.00	0.00
		2	0	0	11000	68	0.00	0.00	0.00	0.00
	5	1	0	0	11000	68	0.00	0.00	0.00	0.00
		2	0	0	11000	68	0.00	0.00	0.00	0.00
	6	1	0	0	0	0	0.00	0.00	0.00	0.00
		2	0	0	0	0	0.00	0.00	0.00	0.00
	7	1	0	0	11000	72	0.00	0.00	0.00	0.00
		2	0	0	11000	72	0.00	0.00	0.00	0.00
	8	1	0	0	0	0	0.00	0.00	0.00	0.00
		2	0	0	0	0	0.00	0.00	0.00	0.00
	9	1	0	0	11000	20	0.00	0.00	0.00	0.00
		2	0	0	11000	20	0.00	0.00	0.00	0.00
	10	1	0	0	11000	32	0.00	0.00	0.00	0.00
		2	0	0	11000	32	0.00	0.00	0.00	0.00
	11	1	0	0	11000	64	0.00	0.00	0.00	0.00
		2	0	0	11000	64	0.00	0.00	0.00	0.00
	12	1	0	0	11000	62	0.00	0.00	0.00	0.00
		2	0	0	11000	62	0.00	0.00	0.00	0.00
	13	1	0	0	11000	10	0.00	0.00	0.00	0.00
		2	0	0	11000	10	0.00	0.00	0.00	0.00
	14	1	0	0	11000	100	0.00	0.00	0.00	0.00
		2	0	0	11000	100	0.00	0.00	0.00	0.00
	15	1	0	0	11000	11	0.00	0.00	0.00	0.00
		2	0	0	11000	11	0.00	0.00	0.00	0.00
	16	1	0	0	11000	8	0.00	0.00	0.00	0.00
		2	0	0	11000	8	0.00	0.00	0.00	0.00
	17	1	0	0	11000	5	0.00	0.00	0.00	0.00
		2	0	0	11000	5	0.00	0.00	0.00	0.00
	18	1	0	0	11000	6	0.00	0.00	0.00	0.00
		2	0	0	11000	6	0.00	0.00	0.00	0.00
	19	1	0	0	11000	6	0.00	0.00	0.00	0.00
		2	0	0	11000	6	0.00	0.00	0.00	0.00

Pedestrian Crossings: Flows and signals

Time Segment	Crossing	Side	Calculated flow entering (Ped/hr)	Calculated flow out (Ped/hr)	Flow discrepancy (Ped/hr)	Adjusted flow warning	Calculated sat flow (Ped/hr)	Calculated capacity (Ped/hr)	Degree of saturation (%)	DOS Threshold exceeded	Practical reserve capacity	Mean modulus of error	Actual green (s (per cycle))
07:30-08:30	1	1	0	0	0		11000	917	0		Unrestricted	0.00	7
		2	0	0	0		11000	917	0		Unrestricted	0.00	7
	2	1	0	0	0		11000	5867	0		Unrestricted	0.00	58
		2	0	0	0		11000	5867	0		Unrestricted	0.00	58
	3	1	0	0	0		11000	1008	0		Unrestricted	0.00	8
		2	0	0	0		11000	1008	0		Unrestricted	0.00	8
	4	1	0	0	0		11000	6783	0		Unrestricted	0.00	68
		2	0	0	0		11000	6783	0		Unrestricted	0.00	68
	5	1	0	0	0		11000	6783	0		Unrestricted	0.00	68
		2	0	0	0		11000	6783	0		Unrestricted	0.00	68
	6	1	0	0	0		0	0	0		-100	0.00	0
		2	0	0	0		0	0	0		-100	0.00	0
	7	1	0	0	0		11000	7150	0		Unrestricted	0.00	72
		2	0	0	0		11000	7150	0		Unrestricted	0.00	72
	8	1	0	0	0		0	0	0		-100	0.00	0
		2	0	0	0		0	0	0		-100	0.00	0
	9	1	0	0	0		11000	2383	0		Unrestricted	0.00	20
		2	0	0	0		11000	2383	0		Unrestricted	0.00	20
	10	1	0	0	0		11000	3483	0		Unrestricted	0.00	32
		2	0	0	0		11000	3483	0		Unrestricted	0.00	32
	11	1	0	0	0		11000	6417	0		Unrestricted	0.00	64
		2	0	0	0		11000	6417	0		Unrestricted	0.00	64
	12	1	0	0	0		11000	6233	0		Unrestricted	0.00	62
		2	0	0	0		11000	6233	0		Unrestricted	0.00	62
	13	1	0	0	0		11000	1192	0		Unrestricted	0.00	10
		2	0	0	0		11000	1192	0		Unrestricted	0.00	10
	14	1	0	0	0		11000	9442	0		Unrestricted	0.00	100
		2	0	0	0		11000	9442	0		Unrestricted	0.00	100
	15	1	0	0	0		11000	1283	0		Unrestricted	0.00	11
		2	0	0	0		11000	1283	0		Unrestricted	0.00	11
	16	1	0	0	0		11000	1008	0		Unrestricted	0.00	8
		2	0	0	0		11000	1008	0		Unrestricted	0.00	8
	17	1	0	0	0		11000	733	0		Unrestricted	0.00	5
		2	0	0	0		11000	733	0		Unrestricted	0.00	5
	18	1	0	0	0		11000	825	0		Unrestricted	0.00	6
		2	0	0	0		11000	825	0		Unrestricted	0.00	6
	19	1	0	0	0		11000	825	0		Unrestricted	0.00	6
		2	0	0	0		11000	825	0		Unrestricted	0.00	6

Pedestrian Crossings: Stops and delays

Time Segment	Crossing	Side	Mean Cruise Time per Ped (s)	Mean Delay per Ped (s)	Total delay (Ped-hr/hr)	Weighted cost of delay (£ per hr)
07:30-08:30	(ALL)	(ALL)	1.00	0.00	0.00	0.00

Pedestrian Crossings: Queues and blocking

Time Segment	Crossing	Side	Mean max queue (Ped)	Max queue storage (Ped)	Utilised storage (%)	Excess queue penalty (£ per hr)
07:30-08:30	(ALL)	(ALL)	0.00	10.00	0.00	0.00

Pedestrian Crossings: Advanced

Time Segment	Crossing	Side	Degree of saturation penalty (£ per hr)	Ped gap accepting penalty (£ per hr)	Mean Max Queue EoTS (Ped)	Ped Factor	Cost of traffic penalties (£ per hr)	Performance Index (£ per hr)
07:30-08:30	(ALL)	(ALL)	0.00	0.00	0.00	1.00	0.00	0.00

Network Results

Run Summary

Analysis set used	Run start time	Run finish time	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	Ite wit wor over PR
1	23/07/2021 08:34:30	23/07/2021 08:34:46	07:30	120	9140.10	586.70	125.19	52/1	15	10	TC42/1	48/1	TC4

Network Results: Vehicle summary

Time Segment	Degree of saturation (%)	Practical reserve capacity (%)	Calculated flow entering (PCU/hr)	Actual green (s (per cycle))	Mean Delay per Veh (s)	Weighted cost of delay (£ per hr)	Weighted cost of stops (£ per hr)	Performance Index (£ per hr)
07:30-08:30	125	-100	75609	9899	27.93	8331.17	808.93	9140.10

Network Results: Pedestrian summary

Time Segment	Degree of saturation (%)	Calculated Flow Entering (Ped/hr)	Actual green (s (per cycle))	Mean Delay Per Ped (s)	Weighted cost of delay (£ per hr)	Performance Index (£ per hr)
07:30-08:30	0	0	1210	0.00	0.00	0.00

Network Results: Flows and signals

Time Segment	Calculated flow entering (PCU/hr)	Calculated flow out (PCU/hr)	Flow discrepancy (PCU/hr)	Adjusted flow warning	Degree of saturation (%)	DOS Threshold exceeded	Practical reserve capacity (%)	Actual green (s (per cycle))
07:30-08:30	75609	75081	3930	✓	125	✓	-100	11109

Network Results: Stops and delays

Time Segment	Mean Cruise Time per Veh (s)	Mean Delay per Veh (s)	Total delay (PCU-hr/hr)	Weighted cost of delay (£ per hr)	Mean stops per Veh (%)	Total stops (Stops per hr)	Weighted cost of stops (£ per hr)
07:30-08:30	8.52	27.93	586.70	8331.17	51.71	37628.06	808.93

Network Results: Queues and blocking

Time Segment	Utilised storage (%)	Excess queue penalty (£ per hr)	Wasted time total (s (per cycle))
07:30-08:30	1260.86	0.00	2831.02

Network Results: Advanced

Time Segment	Degree of saturation penalty (£ per hr)	Ped gap accepting penalty (£ per hr)	Warmed up	PCU Factor	Cost of traffic penalties (£ per hr)	Controller stream penalties (£ per hr)	Performance Index (£ per hr)
07:30-08:30	0.00	0.00		1.00	0.00	0.00	9140.10

Point to Point Journey Time

Average Journey Time (s) for Local Matrix: 1

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	0.0	133.9	131.5	193.6	197.3	207.6	221.8	0.0
	B28	542.7	0.0	345.3	564.6	431.1	620.1	553.6	0.0
	C28	424.2	420.8	0.0	417.8	416.0	547.4	521.6	0.0
	D28	305.6	318.7	190.3	0.0	250.7	476.9	485.7	0.0
	E28	358.4	149.4	428.0	220.4	0.0	268.0	276.0	0.0
	F28	121.0	157.5	169.4	205.1	217.2	0.0	16.9	0.0
	G28	85.5	112.8	129.4	113.2	195.0	189.8	0.0	0.0
	H28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Path Journey Time

Path	From Location	To Location	Normal Calculated Flow (PCU/hr)	Normal journey time (s)	Calculated Total Flow (PCU/hr)	Avg journey time (s)
24	C28	C28	0	0.00	0	0.00

25	C28	C28	0	0.00	0	0.00
32	C28	E28	173	412.55	173	412.55
36	C28	E28	0	0.00	0	0.00
42	E28	C28	39	399.27	39	399.27
43	E28	C28	0	0.00	0	0.00
44	E28	E28	0	0.00	0	0.00
45	E28	E28	0	0.00	0	0.00
68	E28	G28	183	276.65	183	276.65
91	C28	F28	40	547.41	40	547.41
92	E28	F28	45	267.98	45	267.98
96	A28	C28	0	0.00	0	0.00
98	G28	E28	0	0.00	0	0.00
99	C28	B28	29	418.70	29	418.70
100	E28	B28	135	129.46	135	129.46
101	E28	E28	0	0.00	0	0.00
102	A28	C28	256	120.29	256	120.29
103	F28	B28	0	0.00	0	0.00
104	C28	G28	456	556.08	456	556.08
105	D28	H28	0	0.00	0	0.00
106	G28	C28	97	98.32	97	98.32
107	A28	B28	25	131.24	25	131.24
108	B28	G28	332	514.44	332	514.44
109	C28	G28	230	404.73	230	404.73
110	E28	G28	22	270.38	22	270.38
111	B28	G28	0	0.00	0	0.00
112	F28	G28	19	16.91	19	16.91
114	C28	H28	0	0.00	0	0.00
115	B28	C28	9	353.05	9	353.05
116	F28	C28	2	147.17	2	147.17
117	H28	H28	0	0.00	0	0.00
118	F28	C28	0	0.00	0	0.00
119	F28	E28	2	236.53	2	236.53
120	F28	E28	2	164.07	2	164.07
122	C28	C28	0	0.00	0	0.00
123	C28	C28	0	0.00	0	0.00
124	E28	C28	0	0.00	0	0.00
126	D28	C28	0	0.00	0	0.00
127	D28	C28	0	0.00	0	0.00
128	H28	C28	0	0.00	0	0.00
129	F28	C28	2	144.82	2	144.82
130	G28	C28	97	177.74	97	177.74
131	G28	E28	123	211.48	123	211.48
132	H28	C28	0	0.00	0	0.00
133	H28	E28	0	0.00	0	0.00
135	H28	E28	0	0.00	0	0.00
136	E28	E28	0	0.00	0	0.00
137	H28	G28	0	0.00	0	0.00
138	H28	G28	0	0.00	0	0.00
139	D28	E28	8	264.75	8	264.75
141	D28	E28	8	249.88	8	249.88
142	C28	H28	0	0.00	0	0.00
143	E28	H28	0	0.00	0	0.00
145	H28	H28	0	0.00	0	0.00
146	F28	H28	0	0.00	0	0.00
147	F28	E28	2	240.07	2	240.07
149	C28	B28	3	440.67	3	440.67
150	E28	B28	374	156.59	374	156.59
152	H28	B28	0	0.00	0	0.00

153	F28	B28	10	157.55	10	157.55
155	E28	C28	4	317.37	4	317.37
156	C28	G28	60	546.58	60	546.58
157	H28	B28	0	0.00	0	0.00
159	B28	E28	145	566.05	145	566.05
160	B28	G28	173	628.77	173	628.77
161	B28	F28	39	620.10	39	620.10
162	B28	H28	0	0.00	0	0.00
164	B28	B28	0	0.00	0	0.00
165	B28	B28	0	0.00	0	0.00
166	B28	C28	74	344.32	74	344.32
167	B28	E28	480	390.34	480	390.34
169	G28	B28	69	113.28	69	113.28
170	G28	B28	69	110.19	69	110.19
171	G28	H28	0	0.00	0	0.00
172	C28	F28	0	0.00	0	0.00
173	C28	G28	0	0.00	0	0.00
174	C28	H28	0	0.00	0	0.00
175	G28	C28	0	0.00	0	0.00
176	G28	E28	66	206.25	66	206.25
178	G28	E28	34	113.25	34	113.25
180	C28	C28	0	0.00	0	0.00
181	G28	G28	0	0.00	0	0.00
182	C28	C28	0	0.00	0	0.00
183	C28	C28	0	0.00	0	0.00
184	C28	C28	0	0.00	0	0.00
185	A28	B28	25	136.64	25	136.64
186	A28	C28	49	190.01	49	190.01
187	A28	E28	309	213.72	309	213.72
188	C28	H28	0	0.00	0	0.00
190	C28	C28	0	0.00	0	0.00
192	C28	C28	0	0.00	0	0.00
193	C28	C28	0	0.00	0	0.00
194	C28	C28	0	0.00	0	0.00
195	D28	G28	185	486.05	185	486.05
196	D28	F28	91	476.91	91	476.91
197	D28	G28	53	484.59	53	484.59
198	G28	D28	0	0.00	0	0.00
199	D28	B28	95	348.14	95	348.14
200	D28	B28	95	344.59	95	344.59
201	D28	C28	105	169.48	105	169.48
202	G28	B28	0	0.00	0	0.00
203	G28	C28	6	139.80	6	139.80
204	D28	C28	45	239.01	45	239.01
205	D28	E28	27	262.78	27	262.78
206	C28	D28	234	417.81	234	417.81
207	D28	E28	8	195.03	8	195.03
208	G28	C28	0	0.00	0	0.00
209	G28	E28	0	0.00	0	0.00
210	A28	G28	570	224.74	570	224.74
211	A28	H28	0	0.00	0	0.00
212	H28	D28	0	0.00	0	0.00
213	A28	E28	102	148.87	102	148.87
214	G28	G28	0	0.00	0	0.00
215	G28	F28	66	188.45	66	188.45
216	G28	G28	0	0.00	0	0.00
217	G28	G28	0	0.00	0	0.00
218	A28	G28	289	216.31	289	216.31

219	A28	F28	112	207.63	112	207.63
220	H28	F28	0	0.00	0	0.00
221	F28	F28	0	0.00	0	0.00
223	A28	E28	68	195.30	68	195.30
225	D28	E28	0	0.00	0	0.00
227	H28	E28	0	0.00	0	0.00
229	F28	E28	0	0.00	0	0.00
230	G28	G28	0	0.00	0	0.00
231	A28	G28	10	215.54	10	215.54
232	A28	H28	0	0.00	0	0.00
233	B28	H28	0	0.00	0	0.00
234	C28	G28	170	555.31	170	555.31
235	E28	G28	0	0.00	0	0.00
236	E28	H28	0	0.00	0	0.00
237	F28	H28	0	0.00	0	0.00
238	D28	B28	36	173.43	36	173.43
239	D28	B28	0	0.00	0	0.00
240	G28	C28	59	100.06	59	100.06
241	E28	C28	0	0.00	0	0.00
242	H28	C28	0	0.00	0	0.00
244	G28	E28	0	0.00	0	0.00
245	C28	C28	0	0.00	0	0.00
246	E28	C28	39	468.27	39	468.27
247	E28	E28	0	0.00	0	0.00
248	D28	C28	0	0.00	0	0.00
249	H28	C28	0	0.00	0	0.00
250	H28	E28	0	0.00	0	0.00
251	H28	E28	0	0.00	0	0.00
252	F28	C28	2	216.35	2	216.35
253	F28	E28	2	228.18	2	228.18
256	C28	C28	0	0.00	0	0.00
257	C28	H28	0	0.00	0	0.00
259	C28	C28	0	0.00	0	0.00
261	C28	C28	0	0.00	0	0.00
262	C28	C28	0	0.00	0	0.00
263	C28	C28	0	0.00	0	0.00
264	C28	C28	0	0.00	0	0.00
265	C28	C28	0	0.00	0	0.00
266	C28	B28	0	0.00	0	0.00
267	C28	B28	0	0.00	0	0.00
268	C28	E28	2	714.10	2	714.10
270	C28	E28	0	0.00	0	0.00
271	C28	G28	12	847.78	12	847.78
272	C28	G28	0	0.00	0	0.00
273	C28	H28	0	0.00	0	0.00
275	C28	C28	0	0.00	0	0.00
276	C28	C28	0	0.00	0	0.00
277	C28	B28	0	0.00	0	0.00
278	C28	B28	0	0.00	0	0.00
279	C28	G28	0	0.00	0	0.00
280	C28	C28	0	0.00	0	0.00
281	C28	C28	0	0.00	0	0.00
282	C28	B28	0	0.00	0	0.00
283	C28	B28	0	0.00	0	0.00
285	G28	C28	0	0.00	0	0.00
286	G28	B28	4	150.02	4	150.02
287	G28	C28	0	0.00	0	0.00
288	G28	E28	0	0.00	0	0.00

290	G28	E28	0	0.00	0	0.00
292	G28	E28	0	0.00	0	0.00
294	G28	E28	0	0.00	0	0.00
295	G28	G28	0	0.00	0	0.00
296	G28	F28	2	234.93	2	234.93
297	G28	A28	357	85.46	357	85.46
298	G28	A28	0	0.00	0	0.00
299	A28	A28	0	0.00	0	0.00
300	A28	A28	0	0.00	0	0.00
301	B28	A28	0	0.00	0	0.00
302	B28	A28	37	542.73	37	542.73
303	C28	A28	0	0.00	0	0.00
304	C28	A28	520	422.41	520	422.41
305	C28	A28	7	558.00	7	558.00
306	C28	A28	0	0.00	0	0.00
307	C28	A28	0	0.00	0	0.00
308	C28	A28	0	0.00	0	0.00
309	C28	A28	0	0.00	0	0.00
310	C28	A28	0	0.00	0	0.00
311	E28	A28	18	277.34	18	277.34
312	E28	A28	495	361.39	495	361.39
313	D28	A28	3	305.62	3	305.62
314	H28	A28	0	0.00	0	0.00
315	F28	A28	15	121.02	15	121.02
316	G28	D28	0	0.00	0	0.00
317	G28	D28	128	113.15	128	113.15
318	G28	D28	0	0.00	0	0.00
319	G28	D28	0	0.00	0	0.00
320	G28	D28	0	0.00	0	0.00
321	A28	D28	2	193.60	2	193.60
322	A28	D28	0	0.00	0	0.00
323	B28	D28	285	564.64	285	564.64
324	C28	D28	0	0.00	0	0.00
325	E28	D28	55	220.40	55	220.40
326	D28	D28	0	0.00	0	0.00
327	D28	D28	0	0.00	0	0.00
328	D28	D28	0	0.00	0	0.00
329	H28	D28	0	0.00	0	0.00
330	H28	D28	0	0.00	0	0.00
331	F28	D28	7	247.91	7	247.91
332	F28	D28	0	0.00	0	0.00
333	F28	D28	7	162.35	7	162.35

Final Prediction Table

Traffic Stream Results

				SIGNALS		FLOWS		PERFORMANCE				PER PCU			QUEUE
Arm	**Traffic Stream**	**Name**	**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)**
A	**1**	(untitled)	6	771-2	E	372	2050	36	3.00	57	57	22.61	17.02	55.44	5.91
	2	(untitled)	6	771-2	E	213	2050	36	3.00	33	174	19.39	13.62	51.62	3.00
	3	(untitled)	6	771-2	E	338	2050	36	3.00	52	73	18.04	12.14	45.52	4.07
	4	(untitled)	6	771-2	E	307	2050	36	4.00	47	90	17.72	11.70	44.22	3.72
Ac	**1**	(untitled)	6	771-2	D	995	2263	64	8.00	80	13	19.01	11.83	32.97	6.29
	2	(untitled)	6	771-2	D	186	2263	64	50.95	16	476	10.32	0.83	16.67	1.81

	3	(untitled)	6	771-2	D	310	2263	64	20.00	25	261	7.63	1.03	17.77	4.70
Acf	1	(untitled)	6			1181	2263	120	42.00	52	72	6.09	0.87	0.00	0.28
	2	(untitled)	6			310	2263	120	72.00	14	557	7.37	0.13	0.00	0.01
Af	1	(untitled)	6			585	2050	120	40.00	29	215	6.92	0.35	0.00	0.06
	2	(untitled)	6			338	2050	120	40.00	16	446	6.74	0.17	0.00	0.02
	3	(untitled)	6			307	2050	120	40.00	15	501	6.74	0.15	0.00	0.01
B	1	(untitled)	1	769-1	B	306	2050	38	0.00	45	101	24.90	17.80	73.51	3.75
	2	(untitled)	1	769-1	B	428	2150	38	0.47	60	49	27.89	20.60	80.05	5.75
	3	(untitled)	1	769-1	B	513	2100	38	0.62	74	21	32.72	25.24	86.27	7.41
	4	(untitled)	1	769-1	B	570	2050	38	0.00	83	8	43.39	31.10	104.26	10.01
Bc	1	(untitled)	1	769-1	A	435	2050	58	11.00	42	112	16.66	4.70	13.83	2.09
	2	(untitled)	1	769-1	A	532	2050	58	17.70	58	54	20.15	8.32	41.62	2.69
	3	(untitled)	1	769-1	A	387	2050	58	16.14	38	138	14.98	3.27	10.30	2.05
Bcf	1	(untitled)	1			1367	2263	120	92.00	60	49	5.37	1.21	0.00	0.46
	2	(untitled)	1			435	2263	120	67.00	19	369	5.50	0.19	0.00	0.02
	3	(untitled)	1			532	2263	120	39.00	24	283	5.87	0.24	0.00	0.04
	4	(untitled)	1			387	2263	120	70.00	17	426	6.21	0.16	0.00	0.02
Bf	1	(untitled)	1			734	1800	120	0.00	41	121	28.03	0.69	0.00	0.14
	2	(untitled)	1			1083	1800	120	0.00	60	50	28.92	1.51	0.00	0.45
C	1	(untitled)	2	769-2	G	495	2100	30	0.00	88	2	65.25	50.72	129.45	10.94
	2	(untitled)	2	769-2	G	564 <	2200	30	0.00	96	-6	151.08	136.40	250.08	27.38 +
	3	(untitled)	2	769-2	G	324	2050	30	12.00	59	52	38.45	23.53	107.78	5.84
Cf	1	(untitled)	2			495	1965	120	24.00	25	257	17.66	0.31	0.00	0.04
	2	(untitled)	2			889 <	1965	120	65.72	100	-10	125.94	108.43	210.14	39.06 +
D	1	(untitled)	3	770-1	B	339	2050	38	4.00	50	82	31.28	27.16	80.49	4.61
	2	(untitled)	3	770-1	B	617 <	1850	38	0.00	100	-10	109.85	105.73	135.35	21.21 +
	3	(untitled)	3	770-1	B	711 <	2250	38	2.07	100	-10	101.82	97.37	120.41	22.13 +
Dc	1	(untitled)	3	770-1	A	967 <	2100	62	0.00	86	4	22.93	19.12	58.95	9.55 +
	2	(untitled)	3	770-1	A	748	2100	62	0.00	67	35	15.28	11.63	58.82	7.32
	3	(untitled)	3	770-1	A	665	2100	62	11.06	72	25	14.77	11.26	56.62	6.34
	4	(untitled)	3	770-1	A	894 <	2100	62	11.43	84	7	20.38	17.02	61.88	8.63 +
Dcf	1	(untitled)	3			636	2050	120	34.00	31	190	5.34	0.39	0.04	0.07
	2	(untitled)	3			1206	2100	120	47.29	83	8	16.99	12.05	51.08	10.78
	3	(untitled)	3			747	2100	120	39.22	40	125	6.34	0.83	6.25	2.36
	4	(untitled)	3			665	2100	120	28.00	32	184	7.56	0.40	0.00	0.07
	5	(untitled)	3			894	2100	120	65.19	50	79	9.91	4.89	40.54	9.89
Df	1	(untitled)	3-2	11	B	1140 <	1900	103	44.37	121	-25	352.42	328.42	276.12	131.21
	2	(untitled)	3-2	11	B	782 <	2250	103	66.07	110	-18	221.05	197.05	270.24	51.43 +
Dxp	1	(untitled)	3-2	770-2	D	636	2050	101	16.00	36	147	4.47	0.97	4.84	1.16
	2	(untitled)	3-2	770-2	D	239	2050	101	52.00	14	557	4.05	0.40	2.03	0.17
Ec	1	(untitled)	4	770-3	F	588	2150	70	20.00	46	97	9.59	5.84	35.91	3.61
	2	(untitled)	4	770-3	F	1227 <	2263	70	0.00	90	0	20.16	16.52	51.97	10.82 +
	3	(untitled)	4	770-3	F	1127	2263	70	0.00	83	8	11.92	8.41	30.00	5.70
	4	(untitled)	4	770-3	F	505	2250	70	32.00	37	140	14.87	11.42	81.90	6.93
Ecf	1	(untitled)	4			1109	2100	120	22.22	53	70	4.42	0.98	1.95	4.94
	2	(untitled)	4			942	2100	120	20.00	45	101	4.17	0.70	0.09	0.18
	3	(untitled)	4			1227	2263	120	34.06	69	30	8.83	5.31	30.77	6.82
	4	(untitled)	4			1661	2300	120	30.65	82	9	8.97	5.12	20.62	7.26
Ef	1	(untitled)	4			900 <	1900	120	66.68	107	-16	164.29	148.98	241.67	47.77 +
	2	(untitled)	4			509	1900	120	0.00	27	236	15.65	0.35	0.00	0.05
Exp	1	(untitled)	4-2	770-4	L	1110	2050	100	15.00	64	40	6.59	2.70	11.20	5.26
	2	(untitled)	4-2	770-4	L	351	2050	100	41.00	20	342	4.30	0.27	0.67	2.34
F	1	(untitled)	5	771-1	B	315 <	2100	16	0.00	100	-10	237.54	231.15	267.15	22.31 +
	2	(untitled)	5	771-1	B	185	2100	16	6.00	59	53	48.71	42.28	112.87	3.49
	3	(untitled)	5	771-1	B	237	2100	16	0.00	75	20	47.57	41.03	114.14	4.58
Fc	1	(untitled)	5	771-1	A	1440	2263	84	8.00	89	1	29.49	10.39	34.84	8.64
	2	(untitled)	5	771-1	A	1168	2263	84	17.75	77	17	25.77	7.04	39.31	11.41
	3	(untitled)	5	771-1	A	1043	2263	84	20.81	65	39	24.78	5.34	63.06	18.40

Ff	**1**	(untitled)	5			522	1900	120	88.43	104	-14	205.19	172.11	233.32	30.99
	2	(untitled)	5			237	1900	120	0.00	12	622	33.18	0.13	0.00	0.01
G	**1**	(untitled)	2	769-2	F	377	2050	28	7.61	78	16	65.73	49.67	122.27	8.22
	2	(untitled)	2	769-2	F	161	2050	28	18.73	32	179	52.57	41.12	109.72	2.77
Gf	**1**	(untitled)	4			374	2050	120	90.01	18	393	3.12	0.20	0.40	2.34
	2	(untitled)	4			135	2050	120	90.04	7	1266	2.95	0.07	0.58	2.32
xA	**1**	(untitled)	10			1554	2263	120	26.35	75	20	20.50	3.28	12.41	10.40
	2	(untitled)	10			1343	2263	120	28.29	61	48	18.60	1.35	3.37	2.80
xB	**1**	(untitled)				1367	Unrestricted	120	10.00	0	Unrestricted	4.48	0.00	0.00	0.00
xC	**1**	(untitled)				612	1900	120	57.65	51	76	16.70	8.03	59.33	11.86
	2	(untitled)				346	1900	120	66.89	25	258	11.61	2.91	44.36	4.71
xD	**1**	(untitled)				634	Unrestricted	120	15.00	0	Unrestricted	9.13	0.00	0.00	0.00
	2	(untitled)				242	Unrestricted	120	54.00	0	Unrestricted	9.21	0.00	0.00	0.00
xE	**1**	(untitled)				1110	Unrestricted	120	8.00	0	Unrestricted	13.04	0.00	0.00	0.00
	2	(untitled)				351	Unrestricted	120	49.00	0	Unrestricted	13.04	0.00	0.00	0.00
xF	**1**	(untitled)				640	Unrestricted	120	17.00	0	Unrestricted	7.51	0.00	0.00	0.00
Cc1	**1**	(untitled)	2	769-2	E	420	2050	64	13.00	37	142	13.92	7.26	29.55	2.64
E1	**1**	(untitled)	4	770-3	G	307	2050	28	10.00	60	50	42.69	36.69	108.22	5.54
	2	(untitled)	4	770-3	G	537 <	2200	28	0.00	98	-8	130.02	124.02	191.18	22.32 +
Gf1	**1**	(untitled)	4			29	670	120	88.00	4	1971	5.50	1.81	32.21	0.21
Cc2	**2**	(untitled)	2	769-2	D	567	2150	66	11.12	47	90	18.40	11.34	61.18	5.32
	3	(untitled)	2	769-2	D	760	2050	66	8.00	65	38	21.67	14.32	82.00	13.53
	4	(untitled)	2	769-2	D	854 <	2150	66	19.67	99	-9	76.46	69.49	152.38	24.19 +
	5	(untitled)	2	769-2	D	570	2050	66	34.05	49	83	25.35	17.37	107.15	11.88
E2	**3**	(untitled)	4	770-3	H	374	2150	28	0.93	72	25	33.26	29.26	95.80	6.04
	4	(untitled)	4	770-3	H	135	2050	28	0.00	26	242	23.41	19.34	77.08	2.37
TC5	**2**	(untitled)	TC771-6	TC777-1	A	1177	2263	99	12.00	62	46	5.24	2.48	8.65	3.40
	3	(untitled)	TC771-6	TC777-1	A	1343	2263	99	17.00	71	28	5.37	2.61	8.06	3.64
	4	(untitled)	TC771-6	TC777-1	C	0	1800	11	12.00	0	Unrestricted	0.00	0.00	0.00	0.00
TC9	**1**	(untitled)	TC771-6	TC777-1	B	554	1925	72	0.00	46	95	24.13	13.12	49.02	9.19
	2	(untitled)	TC771-6	TC777-1	B	317	1966	72	0.00	26	249	21.63	10.57	42.54	4.54
	3	(untitled)	TC771-6	TC777-1	B	294	1947	72	0.00	24	273	21.53	10.41	41.23	4.04
TC35	**1**	(untitled)	TC771-6	TC777-1	A	377	1900	99	14.00	24	282	4.60	1.70	12.04	1.49
TC36	**1**	(untitled)	TC771-6			72	1800	120	0.00	4	2150	3.07	0.04	0.00	0.00
TC37	**1**	(untitled)	TC771-6	TC777-2	J	19	1850	105	105.00	1	7641	4.08	0.89	11.68	0.07
TC38	**1**	(untitled)	TC771-6			19	242	120	49.00	8	1046	5.53	4.00	56.99	2.42
TC39	**2**	(untitled)	TC771-6			1177	2263	120	31.00	52	73	3.40	0.86	0.00	0.28
	3	(untitled)	TC771-6			1343	2263	120	36.00	59	52	3.55	1.16	0.00	0.43
TC40	**2**	(untitled)	TC771-6			1196	Unrestricted	120	13.00	0	Unrestricted	4.23	0.00	0.00	0.00
	3	(untitled)	TC771-6			1343	Unrestricted	120	18.00	0	Unrestricted	4.02	0.00	0.00	0.00
TC41	**1**	(untitled)	TC771-6	TC777-1	D	53	1850	10	7.00	31	188	59.72	55.78	94.79	2.49
TC42	**1**	(untitled)	TC771-6	TC777-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00
TC43	**1**	(untitled)				0	1800	120	120.00	0	Unrestricted	0.00	0.00	0.00	0.00
47	**1**	(untitled)	2			958	1300	120	13.00	74	22	19.88	3.84	0.00	1.02
48	**1**	(untitled)	2			1574 <	1965	120	35.49	114	-21	239.41	232.79	292.29	120.87

49	1	(untitled)	TC771-6			566	1900	120	0.00	30	202	3.55	0.40	0.00	0.06
	2	(untitled)	TC771-6			611	1900	120	0.00	32	180	3.60	0.45	0.00	0.08
50	1	(untitled)	1			1817 <	1900	120	0.00	96	-6	22.66	16.88	0.00	8.52 +
51	1	(untitled)	4-2			759	1900	120	0.00	40	125	5.13	0.63	0.00	0.13
52	1	Dewsbury Road NB Bus Gate	3-2	11	A	14	1800	7	7.26	125	-28	653.68	629.68	328.66	2.65
53	1		TC771-6	TC777-1	J	12	1800	7	7.00	10	800	65.40	54.40	93.73	0.38
54	1		6	12	A	1367 <	1800	104	4.00	87	4	13.75	11.50	70.49	27.34 +
55	1		4	13	A	640 <	1800	104	22.00	41	121	4.11	1.71	23.88	6.26 +

Pedestrian Crossing Results

				SIGNALS		FLOWS		PERFORMANCE			PER PED		QUEUES	WEIGHTS	P
Pedestrian	Side	Name	Traffic node	Controller stream	Phase	Calculated Flow Entering (Ped/hr)	Calculated sat flow (Ped/hr)	Actual green (s (per cycle))	Degree of saturation (%)	Practical reserve capacity	JourneyTime (s)	Mean Delay per Ped (s)	Mean max queue (Ped)	Delay weighting (%)	(
1	1	(untitled)	3-2	770-2	E	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	3-2	770-2	E	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	
2	1	(untitled)	3	770-1	C	0	11000	58	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	3	770-1	C	0	11000	58	0	Unrestricted	0.00	0.00	0.00	100	
3	1	(untitled)	4-2	770-4	M	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	4-2	770-4	M	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	
4	1	(untitled)	4	770-3	J	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	4	770-3	J	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	
5	1	(untitled)	4	770-3	I	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	4	770-3	I	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	
6	1	(untitled)	4	770-3	K	0	0	0	0	-100	0.00	0.00	0.00	100	
	2	(untitled)	4	770-3	K	0	0	0	0	-100	0.00	0.00	0.00	100	
7	1	(untitled)	5	771-1	C	0	11000	72	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	5	771-1	C	0	11000	72	0	Unrestricted	0.00	0.00	0.00	100	
8	1	(untitled)	1	769-1	C	0	0	0	0	-100	0.00	0.00	0.00	100	
	2	(untitled)	1	769-1	C	0	0	0	0	-100	0.00	0.00	0.00	100	
9	1	(untitled)	2	769-2	J	0	11000	20	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	J	0	11000	20	0	Unrestricted	0.00	0.00	0.00	100	
10	1	(untitled)	2	769-2	K	0	11000	32	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	K	0	11000	32	0	Unrestricted	0.00	0.00	0.00	100	
11	1	(untitled)		769-2	H	0	11000	64	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		769-2	H	0	11000	64	0	Unrestricted	0.00	0.00	0.00	100	
12	1	(untitled)	2	769-2	I	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	I	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	
13	1	(untitled)		TC777-1	I	0	11000	10	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	I	0	11000	10	0	Unrestricted	0.00	0.00	0.00	100	
14	1	(untitled)		TC777-1	F	0	11000	100	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	F	0	11000	100	0	Unrestricted	0.00	0.00	0.00	100	
15	1	(untitled)		TC777-1	G	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	G	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	
16	1	(untitled)		TC777-1	H	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	H	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	
17	1	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	
18	1	(untitled)	12	12	B	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	12	12	B	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	
19	1	(untitled)	13	13	B	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	13	13	B	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	

Network Results

	Distance travelled (PCU-km/hr)	Time spent (PCU-hr/hr)	Mean journey speed (kph)	Total 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	6860.75	765.64	8.96	586.70	8331.17	808.93	0.00	9140.10
Bus	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tram	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pedestrians	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	6860.75	765.64	8.96	586.70	8331.17	808.93	0.00	9140.10

- *< = 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***