TRANSYT 15

Filename: M62 JN 28 CRF Scheme_Mar 20- Scenario 3-AM.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: 19/07/2021 20:26:38

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 + Cumulative AM
D1 - 2033 Base + Committed + Cumulative AM*

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	19/07/2021 20:25:09	19/07/2021 20:25:23	07:30	120	20597.37	1378.09	389.43	51/1	26	18	TC42/1	51/1	TC4

Analysis Set Details

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

Demand Set Details

Name	Description	Composite	Demand sets	Start time (HH:mm)	Locked
2033 Base + Committed + Cumulative AM				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
✓		Offsets And Green Splits	✓

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
Hill Climb (Fast)	15, 40, -1, 15, 40, 1, -1, 1	50, 50, 5, 5, 0.5, 0.5, 0.05, 0.05		✓	770-1, 770-3, 771-1			Do nothing

Economics

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

Traffic Nodes

Traffic Nodes

Traffic node	Name	Description
(ALL)	(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

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	✓	53.54	✓	Directly entered	2050		2050			Normal	
	2	(untitled)	Dews	✓	52.96	✓	Directly entered	2050		2050			Normal	
	3	(untitled)	Brad/M62W	✓	52.75	✓	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	✓	52.87	✓	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)		✓	77.15								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)		✓	162.53								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	
	2	(untitled)		✓	55.07	✓	Directly entered	1850		1850	✓		Normal	
TC42	1	(untitled)		✓	23.35	✓	Sum of lanes	1771			✓		Normal	
TC43	1	(untitled)		✓	52.01	✓	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	

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
	1	1	(untitled)											

D	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)											
	2	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

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							
	1	CTM	100	100	100		0.00							

C	**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							
	2	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							

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	430	430
	2	224	224
	3	443	443
	4	404	404
Ac	1	1155	1155
	2	230	230
	3	401	401
Acf	1	1385	1385
	2	401	401
Af	1	654	654
	2	443	443
	3	404	404

B	**1**	422	422
	2	404	404
	3	571	571
	4	570	570
Bc	**1**	454	454
	2	764	764
	3	484	484
Bcf	**1**	1585	1585
	2	454	454
	3	764	764
	4	484	484
Bf	**1**	826	826
	2	1141	1141
C	**1**	602	602
	2	633	633
	3	370	370
Cf	**1**	602	602
	2	1003	1003
D	**1**	539	539
	2	927	927
	3	862	862
Dc	**1**	1043	1043
	2	830	830
	3	797	797
	4	940	940
Dcf	**1**	943	943
	2	1326	1326
	3	830	830
	4	797	797
	5	940	940
Df	**1**	1466	1466
	2	862	862
Dxp	**1**	943	943
	2	283	283
Ec	**1**	849	849
	2	1657	1657
	3	1199	1199
	4	632	632
Ecf	**1**	1219	1219
	2	1193	1193
	3	1657	1657
	4	1869	1869
Ef	**1**	907	907
	2	509	509
Exp	**1**	1219	1219
	2	344	344
F	**1**	390	390
	2	229	229
	3	323	323
Fc	**1**	1892	1892
	2	1243	1243
	3	1205	1205
Ff	**1**	619	619
	2	323	323
G	**1**	377	377
	2	170	170
Gf	**1**	374	374
	2	135	135

xA	1	2049	2049
	2	1447	1447
xB	1	1585	1585
xC	1	604	604
	2	380	380
xD	1	943	943
	2	283	283
xE	1	1219	1219
	2	344	344
xF	1	904	904
Cc1	1	437	437
E1	1	334	334
	2	573	573
Gf1	1	38	38
Cc2	2	855	855
	3	917	917
	4	889	889
	5	570	570
E2	3	374	374
	4	135	135
TC5	2	1461	1461
	3	1447	1447
	4	0	0
TC9	1	559	559
	2	422	422
	3	330	330
TC35	1	588	588
TC36	1	230	230
TC37	1	41	41
TC38	1	41	41
TC39	2	1461	1461
	3	1447	1447
TC40	2	1502	1502
	3	1447	1447
TC41	1	95	95
	2	95	95
TC42	1	0	0
TC43	1	0	0
47	1	984	984
48	1	1605	1605
49	1	559	559
	2	752	752
50	1	1967	1967
51	1	942	942

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	
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	
	2	TC777-1	D	
TC42	**1**	TC777-1	E	

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

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	6.42	30.00	✓	Nearside	10.60
	2	1	TC42/1	Af/2	6.36	30.00	✓	Nearside	10.60
	3	1	TC42/1	Af/3	6.33	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
Bcf	1	1	A/1	Bcf/1	4.70	48.00	✓	Nearside	68.65
	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	3.97	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	Bcf/1	xB/1	5.79	48.00	✓	Nearside	59.55
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**	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
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
	2	**1**	TC36/1	TC41/2	3.97	50.00	✓	Straight	Straight Movement
TC43	**1**	**1**	TC9/1	TC43/1	3.74	50.00	✓	Nearside	6.11
47	**1**	**1**	xC/1	47/1	16.04	30.00	✓	Straight	Straight Movement
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	6.42	30.00	✓	Straight	Straight Movement
	2	**2**	TC9/2	Af/2	6.36	30.00	✓	Straight	Straight Movement
	3	**2**	TC9/3	Af/3	6.33	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
	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

Dcf	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
xF	1	2	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
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	3.74	50.00	✓	Offside	21.45
47	1	2	xC/2	47/1	16.04	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	6.42	30.00	✓	Offside	6.19
	2	3	TC41/2	Af/2	6.36	30.00	✓	Offside	6.00
	3	3	TC41/2	Af/3	6.33	30.00	✓	Offside	6.00
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
	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

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	

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	51	396	2	479	170	869	0
	B28	38	0	97	287	625	51	507	0
	C28	601	38	0	363	176	61	1089	0
	D28	3	226	273	0	50	152	238	0
	E28	513	509	82	55	0	52	205	0
	F28	73	17	20	69	10	0	41	0
	G28	357	143	358	128	223	102	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	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
	23	I3	C28	A28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	
	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	
	41		E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	
	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	
49	I1	C28	D28	Df/1, D/1, Ecf/2, Ec/1, xF/1	Normal	
50		E28	D28	Ef/1, E1/1, xF/1	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	
97		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	
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	
113		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, xB/1	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	
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	
121		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, xB/1	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	
125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	
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	
134		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/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	
140		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, xF/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	
144		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/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	
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	
151		B28	A28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	
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	
154		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	

	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	
	158		B28	D28	48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/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	
	163		B28	A28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/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	
	168		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/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	
1	171		G28	H28	49/1, TC9/1, TC43/1	Normal	
	172		F28	D28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
	173		F28	E28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	174		F28	F28	TC36/1, TC41/2, 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	
	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	
	177		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/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	
	179		F28	E28	TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	180		F28	D28	TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Disabled	
	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	
	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	
	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		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	
	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	
	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		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, 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	
	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		A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/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	
	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	
	222		A28	D28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
	223		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	
	224		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, xF/1	Normal	
	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	
	226		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
	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	
	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	
	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	
	243		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/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	
	254		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, xB/1	Normal	
	255	I3	C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	
	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	
	258		C28	A28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	
	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	
	260		C28	A28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	
	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		F28	C28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	
	269		F28	E28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	
	270		F28	D28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	
	271		F28	E28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	
	272		F28	H28	TC36/1, TC41/2, 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	
	273		F28	H28	TC36/1, TC41/2, 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	
	274		F28	C28	TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Disabled	
	275		F28	C28	TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	276		F28	E28	TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	

Signal Timings

Network Default: 120s cycle time; 120 steps

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

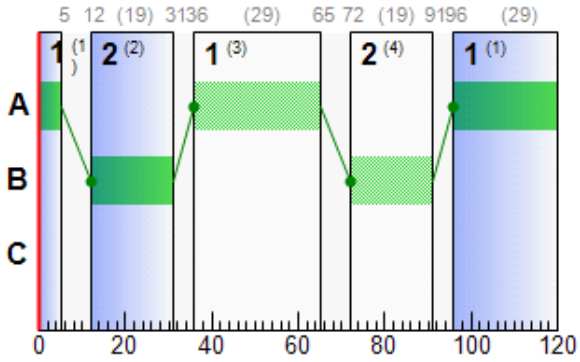
Resultant Phase Green Periods

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

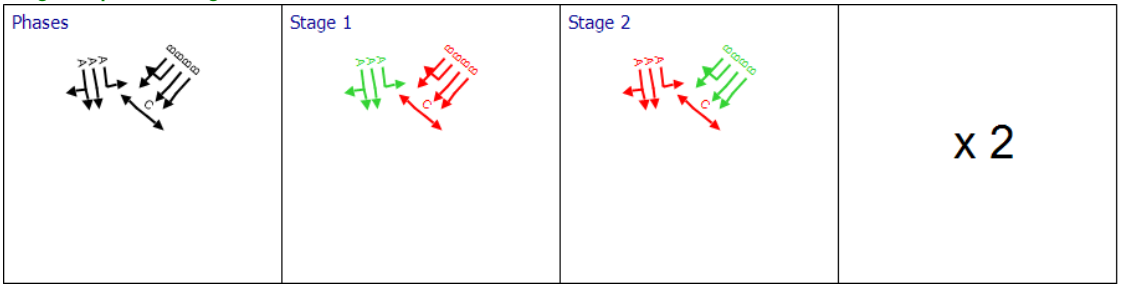
Traffic Stream Green Times

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
769-2	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	
	8	Losing	G	6	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

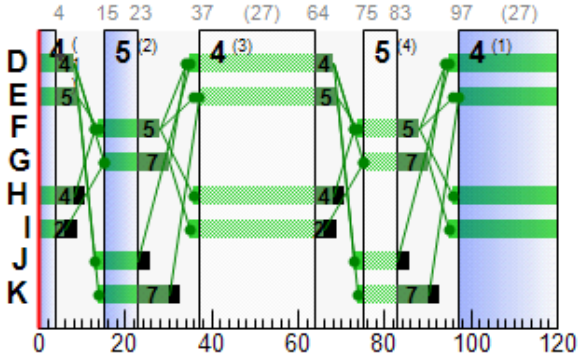
Resultant Phase Green Periods

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

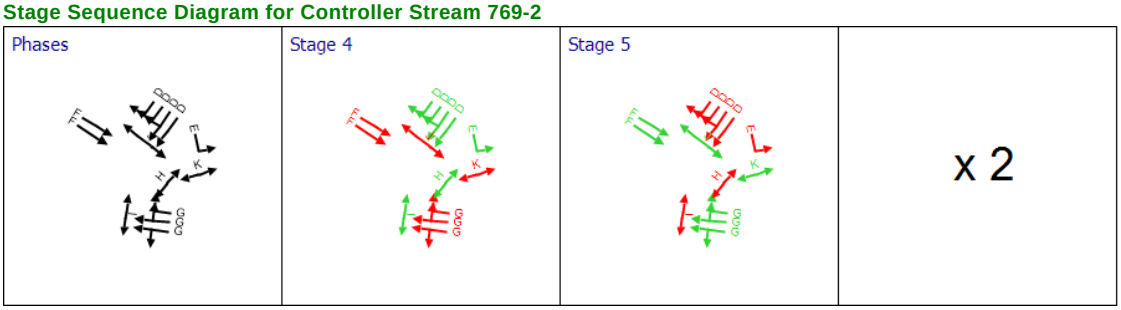
Traffic Stream Green Times

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	✓	✓	Offsets And Green Splits		

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	9, 35	1, 2	69, 95

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	100	9	29	1	5
	2	✓	2	B	16	35	19	1	7
	3		1	A,C	40	69	29	1	5
	4		2	B	76	95	19	1	7

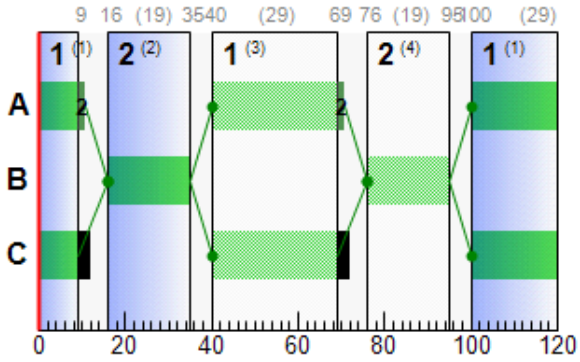
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-1	A	1		40	71	31
		2	✓	100	11	31
	B	1	✓	16	35	19
		2		76	95	19
	C	1		40	69	29
		2	✓	100	9	29

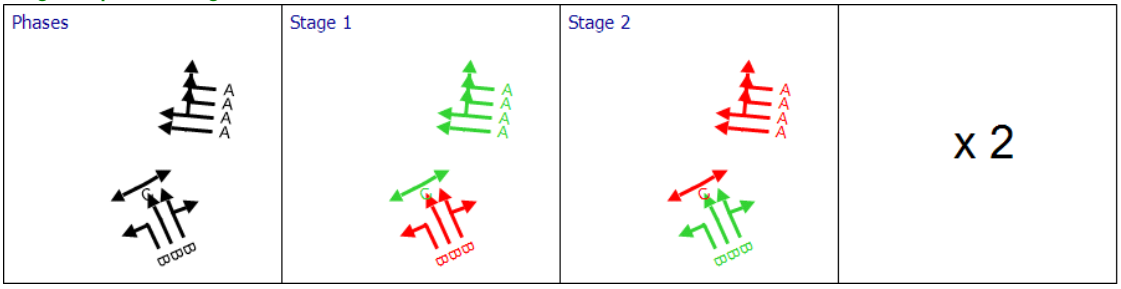
Traffic Stream Green Times

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	16	35	19	76	95	19
D	2	3	770-1	B	16	35	19	76	95	19
D	3	3	770-1	B	16	35	19	76	95	19
Dc	1	3	770-1	A	40	71	31	100	11	31
Dc	2	3	770-1	A	40	71	31	100	11	31
Dc	3	3	770-1	A	40	71	31	100	11	31
Dc	4	3	770-1	A	40	71	31	100	11	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

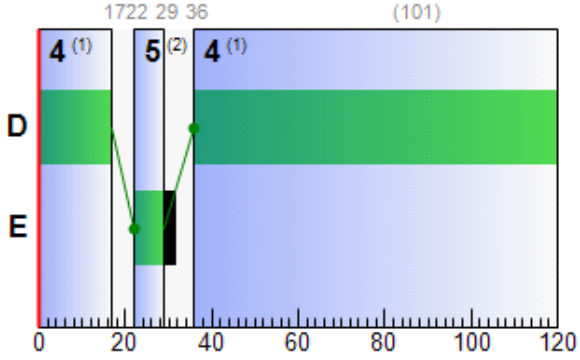
Resultant Phase Green Periods

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

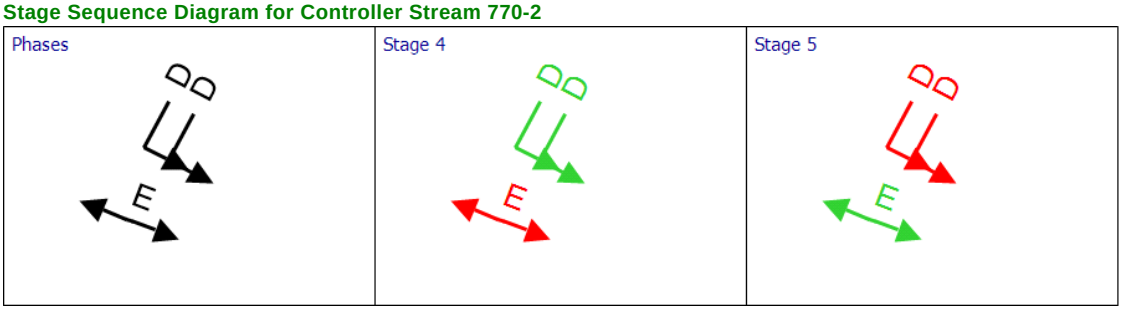
Traffic Stream Green Times

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	✓	✓	Offsets And Green Splits		

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			

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

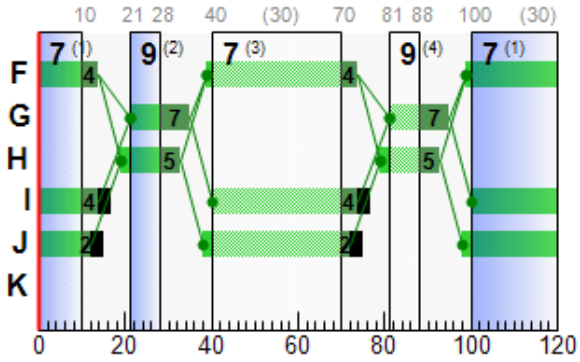
Resultant Phase Green Periods

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

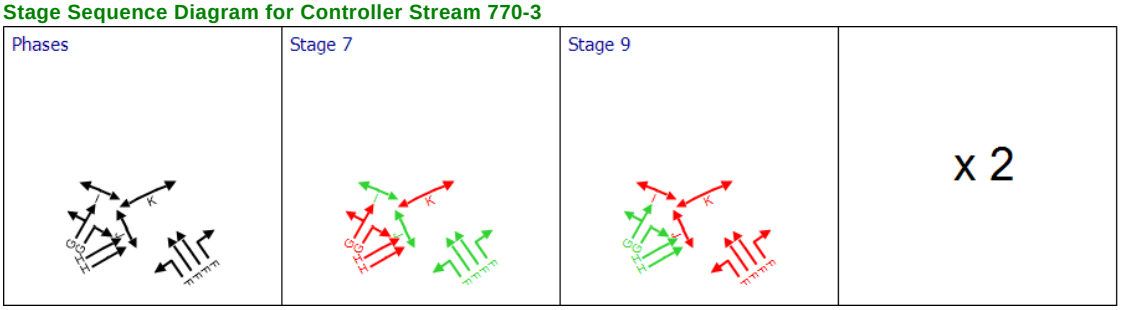
Traffic Stream Green Times

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

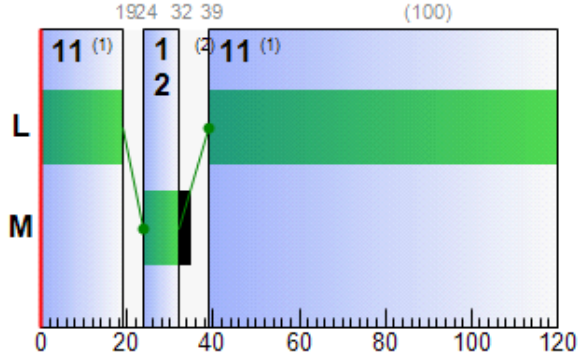
Resultant Phase Green Periods

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

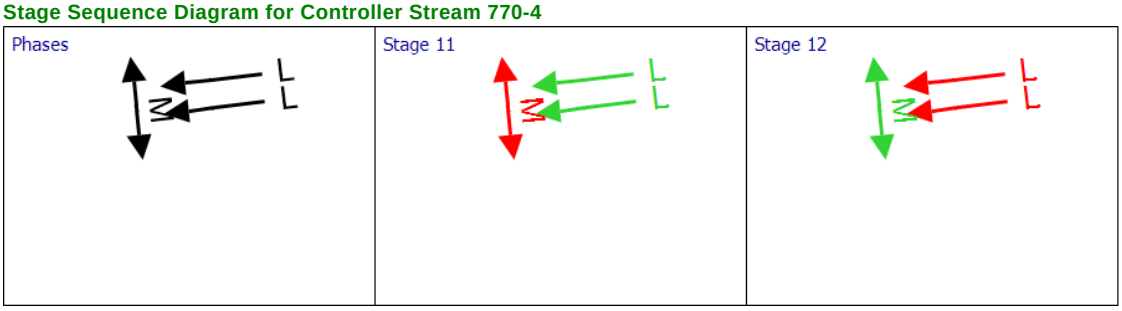
Traffic Stream Green Times

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	✓	✓	Offsets And Green Splits		

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	19, 40	1, 3	79, 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	19	34	1	9
	2	✓	3	B	30	40	10	1	7
	3		1	A,C	45	79	34	1	9
	4		3	B	90	100	10	1	7

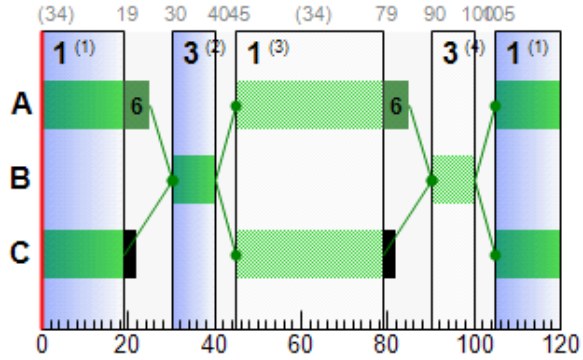
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
771-1	A	1		45	85	40
		2	✓	105	25	40
	B	1	✓	30	40	10
		2		90	100	10
	C	1		45	79	34
		2	✓	105	19	34

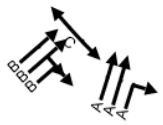
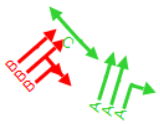
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1			Green Period 2		
					Start	End	Duration	Start	End	Duration
F	1	5	771-1	B	30	40	10	90	100	10
F	2	5	771-1	B	30	40	10	90	100	10
F	3	5	771-1	B	30	40	10	90	100	10
Fc	1	5	771-1	A	45	85	40	105	25	40
Fc	2	5	771-1	A	45	85	40	105	25	40
Fc	3	5	771-1	A	45	85	40	105	25	40

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

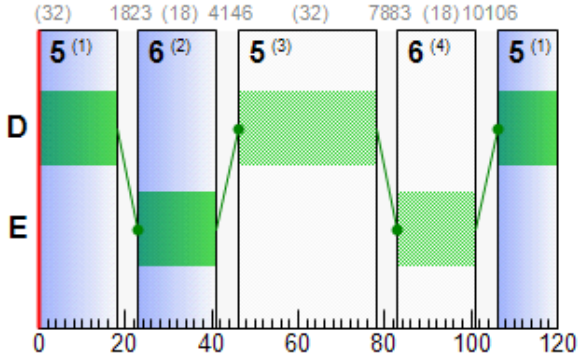
Resultant Phase Green Periods

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

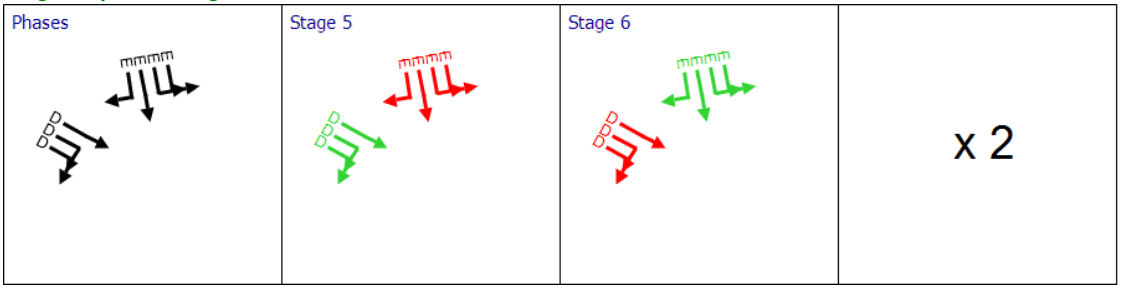
Traffic Stream Green Times

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

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

Stage Sequences

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

Intergreen Matrix for Controller Stream TC777-1

		To								
		A	B	C	D	E	F	G	H	I
From	A				5	5			7	5
	B			5	5	5		5		
	C		6		5	5				
	D	5	5	6			5			
	E	5	5	5					8	
	F				8					
	G		10							
	H	6				6				
	I	5								

Banned Stage transitions for Controller Stream TC777-1

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

Interstage Matrix for Controller Stream TC777-1

		To					
		1	2	3	4	5	6
From	1	0	5	7	8	8	5
	2	10	0	10	8	8	5
	3	6	6	0	8	8	6
	4	5	6	8	0	8	5
	5	6	6	5	6	0	6
	6	5	5	8	8	8	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	6	89	83	1	6
	2	✓	2	A,C,F,G	94	105	11	1	7
	3	✓	5	D,H,I	113	0	7	1	7

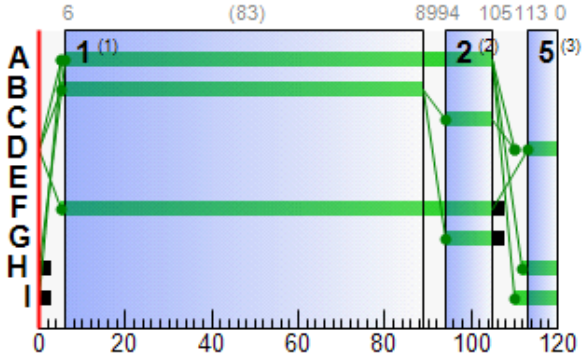
Resultant Phase Green Periods

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	✓	5	89	84
	C	1	✓	94	105	11
	D	1	✓	113	0	7
	F	1	✓	5	105	100
	G	1	✓	94	105	11
	H	1	✓	112	0	8
	I	1	✓	110	0	10

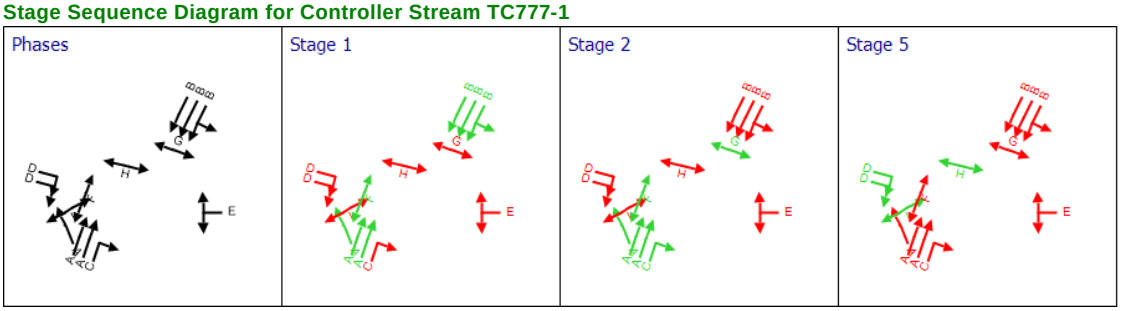
Traffic Stream Green Times

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	5	89	84			
TC9	2	TC771-6	TC777-1	B	5	89	84			
TC9	3	TC771-6	TC777-1	B	5	89	84			
TC35	1	TC771-6	TC777-1	A	6	105	99			
TC41	1	TC771-6	TC777-1	D	113	0	7			
TC41	2	TC771-6	TC777-1	D	113	0	7			
TC42	1	TC771-6	TC777-1	E						

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

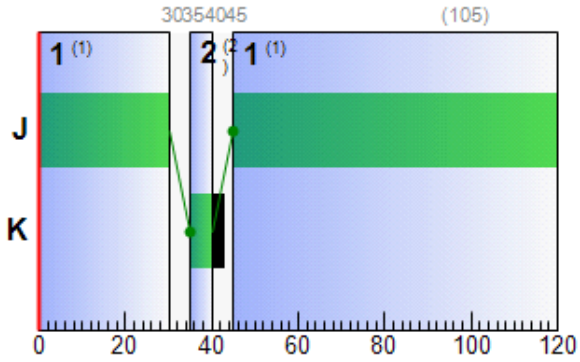
Resultant Phase Green Periods

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

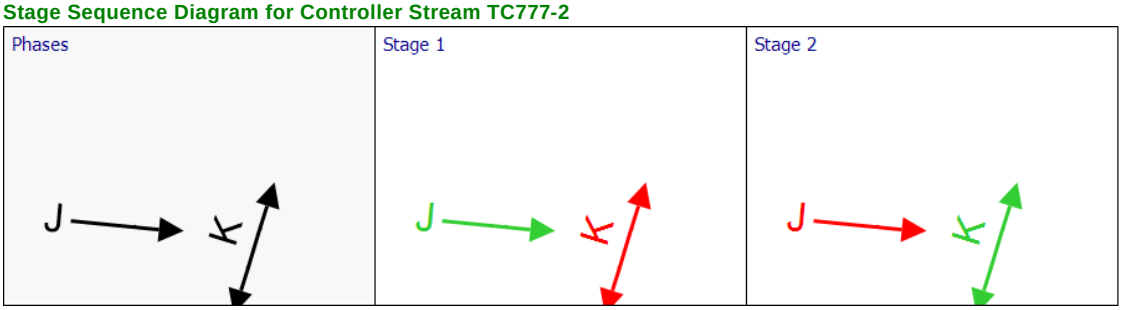
Traffic Stream Green Times

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)
		1	(untitled)	E	430	2050	36	649	66	36	18.76	8.07	62.26	24.35

	A	2	(untitled)	E	224	2050	36	649	35	161	11.75	2.71	20.30	17.52
		3	(untitled)	E	387	2050	36	387	100	-10	174.25	20.93	153.08	180.15
		4	(untitled)	E	350	2050	36	649	54	67	23.47	5.80	41.53	29.50
	Ac	1	(untitled)	D	1014	2263	64	1245	81	10	23.26	16.72	100.36	30.45
		2	(untitled)	D	63	2263	64	1241	5	1680	1.65	1.69	10.54	11.15
		3	(untitled)	D	155	2263	64	156	99	-10	430.46	19.47	127.29	437.05
	Acf	1	(untitled)		1081	2263	120	2199	49	83	0.91	2.64	21.85	6.13
		2	(untitled)		155	2263	120	155	100	-10	385.61	17.58	143.52	392.85
	Af	1	(untitled)		654	2050	120	2050	32	182	0.41	0.07	0.80	6.84
		2	(untitled)		386	2050	120	387	100	-10	142.02	17.64	191.50	148.38
		3	(untitled)		350	2050	120	2050	17	427	0.18	0.02	0.19	6.51
	B	1	(untitled)	B	408	2050	38	683	60	51	20.54	5.51	33.44	27.64
		2	(untitled)	B	390	2150	38	595	66	37	22.76	5.46	32.30	30.05
		3	(untitled)	B	551	2100	38	688	80	12	28.41	8.88	51.24	35.89
		4	(untitled)	B	550	2050	38	683	81	12	28.75	9.34	52.44	41.04
	Bc	1	(untitled)	A	287	2050	58	1025	28	222	1.26	0.19	0.80	13.22
		2	(untitled)	A	522	2050	58	533	98	-8	170.77	29.67	129.76	182.60
		3	(untitled)	A	376	2050	58	845	45	102	6.29	9.84	43.51	17.99
	Bcf	1	(untitled)		1445	2263	120	2263	64	41	1.40	0.56	5.17	5.58
		2	(untitled)		287	2263	120	2263	13	611	0.12	0.01	0.08	6.21
		3	(untitled)		522	2263	120	522	100	-10	128.91	21.42	197.54	134.83
		4	(untitled)		377	2263	120	2263	17	441	0.16	0.02	0.15	6.60
	Bf	1	(untitled)		798	1800	120	1800	44	103	0.80	0.18	0.45	28.13
		2	(untitled)		1102	1800	120	1800	61	47	1.57	0.48	1.21	28.99
	C	1	(untitled)	G	537	2100	30	560	96	-6	98.88	20.37	96.71	113.42
		2	(untitled)	G	564	2200	30	587	96	-6	136.33	27.38	128.65	151.01
		3	(untitled)	G	330	2050	30	547	60	49	23.75	5.95	27.53	38.68
	Cf	1	(untitled)		537	1965	120	1965	27	229	0.34	0.05	0.20	17.70
		2	(untitled)		894	1965	120	894	100	-10	107.10	39.11	154.16	124.60
	D	1	(untitled)	B	359	2050	38	683	52	72	27.23	4.93	51.52	31.35
		2	(untitled)	B	617	1850	38	617	100	-10	105.99	21.21	221.75	110.12
		3	(untitled)	B	722	2250	38	722	100	-10	88.57	19.91	216.53	92.54
	Dc	1	(untitled)	A	933	2100	62	1120	83	8	18.28	8.96	101.72	22.08
		2	(untitled)	A	740	2100	62	1120	66	36	12.74	7.54	89.01	16.39
		3	(untitled)	A	750	2100	62	802	94	-4	35.31	11.65	143.23	38.82
		4	(untitled)	A	880	2100	62	988	89	1	22.62	9.67	124.08	25.98
	Dcf	1	(untitled)		735	2050	120	2050	36	151	0.49	0.10	0.87	5.44
		2	(untitled)		1158	2100	120	1396	83	8	13.92	10.90	95.05	18.86
		3	(untitled)		740	2100	120	1732	43	111	1.16	2.40	20.09	6.60
		4	(untitled)		738	2100	120	1794	41	119	1.87	3.54	30.50	9.06
		5	(untitled)		880	2100	120	1747	50	79	4.88	9.88	84.89	9.90
	Df	1	(untitled)		1466	1900	120	975	150	-40	613.87	262.09	753.49	637.87
		2	(untitled)		862	2250	120	722	119	-25	315.85	84.04	241.63	339.85
	Dxp	1	(untitled)	D	733	2050	101	1743	42	114	1.16	1.49	18.38	4.66
		2	(untitled)	D	225	2050	101	1743	13	597	0.28	0.10	1.23	3.93
	Ec	1	(untitled)	F	673	2150	70	1290	52	73	7.27	5.07	58.23	11.03
		2	(untitled)	F	1326	2263	70	1326	100	-10	54.29	24.67	292.84	57.92
		3	(untitled)	F	1084	2263	70	1358	80	13	7.18	4.79	58.87	10.69
		4	(untitled)	F	531	2250	70	1350	39	129	12.14	7.01	87.77	15.59
	Ecf	1	(untitled)		1050	2100	120	2095	50	79	0.88	4.90	61.32	4.33
		2	(untitled)		981	2100	120	2100	47	93	0.75	0.20	2.54	4.23
		3	(untitled)		1326	2263	120	1616	82	10	9.31	8.45	103.55	12.83
		4	(untitled)		1647	2300	120	1941	85	6	6.76	8.19	93.47	10.60
	Ef	1	(untitled)		907	1900	120	851	107	-16	148.80	47.86	215.77	164.10
		2	(untitled)		509	1900	120	1900	27	236	0.35	0.05	0.22	15.65
07:30-08:30	Exp	1	(untitled)	L	1050	2050	100	1725	61	48	2.39	5.16	57.26	6.28
		2	(untitled)	L	308	2050	100	1725	18	404	0.23	2.34	25.03	4.26
		1	(untitled)	B	101	2100	20	385	26	242	11.79	2.37	15.98	18.17

F	2	(untitled)	B	60	2100	20	385	15	482	10.59	2.33	15.65	17.02
	3	(untitled)	B	82	2100	20	82	100	-10	769.92	17.99	118.56	776.46
Fc	1	(untitled)	A	1546	2263	80	1546	100	-10	52.63	49.63	155.76	71.72
	2	(untitled)	A	1125	2263	80	1479	76	18	9.43	11.36	35.99	28.15
	3	(untitled)	A	1069	2263	80	1070	100	-10	74.16	38.38	122.41	93.58
Ff	1	(untitled)		159	1900	120	1900	8	976	0.09	0.00	0.01	33.17
	2	(untitled)		83	1900	120	82	102	-12	2176.38	52.35	109.30	2209.42
G	1	(untitled)	F	377	2050	28	485	78	16	49.64	8.21	30.24	65.70
	2	(untitled)	F	164	2050	28	500	33	174	41.06	2.82	10.62	52.50
Gf	1	(untitled)		374	2050	120	2050	18	393	0.20	2.34	34.62	3.12
	2	(untitled)		135	2050	120	2048	7	1265	0.08	2.32	34.71	2.96
xA	1	(untitled)		1511	2263	120	2246	67	34	1.79	10.06	25.18	19.01
	2	(untitled)		1236	2263	120	2218	56	61	1.17	3.14	7.85	18.42
xB	1	(untitled)		1445	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	5.79
xC	1	(untitled)		521	1900	120	1289	40	123	7.52	11.73	58.36	16.19
	2	(untitled)		292	1900	120	1410	21	335	3.25	4.69	23.28	11.95
xD	1	(untitled)		732	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.13
	2	(untitled)		224	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.21
xE	1	(untitled)		1050	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		308	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
xF	1	(untitled)		724	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
Cc1	1	(untitled)	E	272	2050	64	1128	24	273	3.19	2.57	15.40	9.99
E1	1	(untitled)	G	313	2050	28	513	61	47	37.01	5.69	40.86	43.01
	2	(untitled)	G	537	2200	28	550	98	-8	123.95	22.32	160.41	129.95
Gf1	1	(untitled)		32	669	120	669	5	1793	1.97	0.26	3.07	5.67
Cc2	2	(untitled)	D	664	2150	66	1198	55	62	11.73	7.34	46.08	18.99
	3	(untitled)	D	843	2050	66	1162	73	24	15.09	14.16	91.20	22.40
	4	(untitled)	D	757	2150	66	759	100	-10	102.02	26.61	171.99	109.02
	5	(untitled)	D	550	2050	66	1161	47	90	17.22	11.82	76.69	25.20
E2	3	(untitled)	H	374	2150	28	521	72	25	29.27	6.04	65.21	33.26
	4	(untitled)	H	135	2050	28	513	26	242	19.34	2.37	25.04	23.41
TC5	2	(untitled)	A	1083	2263	99	1905	57	58	1.75	2.81	70.26	4.51
	3	(untitled)	A	1239	2263	99	1905	65	38	1.99	3.23	80.64	4.76
	4	(untitled)	C	0	1800	11	180	0	Unrestricted	0.00	0.00	0.00	0.00
TC9	1	(untitled)	B	560	1925	84	1396	40	124	7.26	6.61	41.42	18.27
	2	(untitled)	B	365	1966	84	365	100	-10	216.23	25.01	156.15	227.29
	3	(untitled)	B	284	1947	84	1412	20	347	3.61	1.47	9.15	14.73
TC35	1	(untitled)	A	428	1900	99	1599	27	236	1.33	1.68	40.09	4.23
TC36	1	(untitled)		230	1800	120	1800	13	604	0.15	0.01	0.21	3.17
TC37	1	(untitled)	J	41	1850	105	1634	3	3487	0.90	0.16	2.07	4.09
TC38	1	(untitled)		41	275	120	275	15	505	3.83	2.43	65.50	5.36
TC39	2	(untitled)		1084	2263	120	2263	48	88	0.73	0.22	3.59	3.27
	3	(untitled)		1239	2263	120	2263	55	64	0.96	0.33	5.72	3.36
TC40	2	(untitled)		1125	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
	3	(untitled)		1239	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
TC41	1	(untitled)	D	94	1850	7	123	76	18	96.62	4.06	42.76	100.56
	2	(untitled)	D	95	1850	7	123	77	17	98.25	4.15	43.30	102.21
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)		813	1300	120	1300	63	44	2.30	0.52	2.24	18.34
48	1	(untitled)		1605	1965	120	1431	112	-20	210.71	114.30	1192.26	217.33
49	1	(untitled)		560	1900	120	1900	29	205	0.40	0.06	1.35	3.54
	2	(untitled)		753	1900	120	851	88	2	44.88	44.13	966.87	48.03
50	1	(untitled)		1968	1900	120	1900	104	-13	81.31	44.45	530.88	87.09
51	1	(untitled)		943	1900	120	242	389	-77	1341.86	358.60	5503.25	1346.36

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)
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	100	9	29	1	5
	2	✓	2	B	16	35	19	1	7
	3		1	A,C	40	69	29	1	5
	4		2	B	76	95	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	19	34	1	9
	2	✓	3	B	30	40	10	1	7
	3		1	A,C	45	79	34	1	9
	4		3	B	90	100	10	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	6	89	83	1	6
	2	✓	2	A,C,F,G	94	105	11	1	7
	3	✓	5	D,H,I	113	0	7	1	7
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
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
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	✓	53.54	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	52.96	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	3	✓	52.75	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	✓	52.87	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	✓	77.15	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	✓	162.53	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
	2	✓	55.07	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	✓	52.01	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

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	68	0.00	0.00
		2	0	0	68	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

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	66	36	430	2050	36	18.76	8.07	62.26	31.82	12.09	43.91
		2	35	161	224	2050	36	11.75	2.71	20.30	10.38	4.75	15.13
		3	100	-10	387	2050	36	174.25	20.93	153.08	266.11	21.10	287.21
		4	54	67	350	2050	36	23.47	5.80	41.53	32.43	9.79	42.22
	Ac	1	81	10	1014	2263	64	23.26	16.72	100.36	93.03	29.78	122.81
		2	5	1680	63	2263	64	1.65	1.69	10.54	0.41	0.84	1.24
		3	99	-10	155	2263	64	430.46	19.47	127.29	262.97	12.61	275.58
	Acf	1	49	83	1081	2263	120	0.91	2.64	21.85	3.87	1.41	5.28
		2	100	-10	155	2263	120	385.61	17.58	143.52	235.49	5.58	241.07
	Af	1	32	182	654	2050	120	0.41	0.07	0.80	1.06	0.00	1.06
		2	100	-10	386	2050	120	142.02	17.64	191.50	215.98	7.42	223.39
		3	17	427	350	2050	120	0.18	0.02	0.19	0.25	0.00	0.25
	B	1	60	51	408	2050	38	20.54	5.51	33.44	33.08	10.46	43.54
		2	66	37	390	2150	38	22.76	5.46	32.30	35.01	10.38	45.39
		3	80	12	551	2100	38	28.41	8.88	51.24	61.78	16.55	78.32
		4	81	12	550	2050	38	28.75	9.34	52.44	62.40	6.95	69.35
	Bc	1	28	222	287	2050	58	1.26	0.19	0.80	1.42	0.27	1.70
		2	98	-8	522	2050	58	170.77	29.67	129.76	351.49	29.95	381.44
		3	45	102	376	2050	58	6.29	9.84	43.51	9.33	5.02	14.35
	Bcf	1	64	41	1445	2263	120	1.40	0.56	5.17	8.00	0.00	8.00
		2	13	611	287	2263	120	0.12	0.01	0.08	0.13	0.00	0.13
		3	100	-10	522	2263	120	128.91	21.42	197.54	265.27	17.85	283.12
		4	17	441	377	2263	120	0.16	0.02	0.15	0.24	0.00	0.24
	Bf	1	44	103	798	1800	120	0.80	0.18	0.45	2.51	0.00	2.51
		2	61	47	1102	1800	120	1.57	0.48	1.21	6.83	0.00	6.83
	C	1	96	-6	537	2100	30	98.88	20.37	96.71	209.36	12.35	221.71
		2	96	-6	564	2200	30	136.33	27.38	128.65	303.51	17.70	321.21
		3	60	49	330	2050	30	23.75	5.95	27.53	30.91	4.47	35.38
	Cf	1	27	229	537	1965	120	0.34	0.05	0.20	0.73	0.00	0.73
		2	100	-10	894	1965	120	107.10	39.11	154.16	377.81	23.39	401.20
	D	1	52	72	359	2050	38	27.23	4.93	51.52	38.51	9.24	47.75
		2	100	-10	617	1850	38	105.99	21.21	221.75	257.82	26.62	284.44
		3	100	-10	722	2250	38	88.57	19.91	216.53	252.28	23.31	275.59
	Dc	1	83	8	933	2100	62	18.28	8.96	101.72	67.25	17.87	85.12
		2	66	36	740	2100	62	12.74	7.54	89.01	37.18	14.32	51.50
		3	94	-4	750	2100	62	35.31	11.65	143.23	104.42	22.74	127.16
		4	89	1	880	2100	62	22.62	9.67	124.08	78.54	20.96	99.50
	Dcf	1	36	151	735	2050	120	0.49	0.10	0.87	1.42	0.03	1.45
		2	83	8	1158	2100	120	13.92	10.90	95.05	63.56	20.72	84.28
		3	43	111	740	2100	120	1.16	2.40	20.09	3.38	1.69	5.07
		4	41	119	738	2100	120	1.87	3.54	30.50	5.45	1.89	7.34
		5	50	79	880	2100	120	4.88	9.88	84.89	16.96	10.65	27.61
	Df	1	150	-40	1466	1900	120	613.87	262.09	753.49	3549.75	48.67	3598.42
		2	119	-25	862	2250	120	315.85	84.04	241.63	1073.94	28.83	1102.77
	Dxp	1	42	114	733	2050	101	1.16	1.49	18.38	3.35	1.24	4.59
		2	13	597	225	2050	101	0.28	0.10	1.23	0.25	0.09	0.34
	Ec	1	52	73	673	2150	70	7.27	5.07	58.23	19.30	8.86	28.16
		2	100	-10	1326	2263	70	54.29	24.67	292.84	283.94	29.06	313.00
		3	80	13	1084	2263	70	7.18	4.79	58.87	30.70	9.13	39.84
		4	39	129	531	2250	70	12.14	7.01	87.77	25.46	13.47	38.93
	Ecf	1	50	79	1050	2100	120	0.88	4.90	61.32	3.66	0.63	4.30
		2	47	93	981	2100	120	0.75	0.20	2.54	2.91	0.00	2.91
		3	82	10	1326	2263	120	9.31	8.45	103.55	48.68	16.04	64.71
		4	85	6	1647	2300	120	6.76	8.19	93.47	43.89	14.85	58.74

07:30-08:30	Ef	1	107	-16	907	1900	120	148.80	47.86	215.77	532.34	25.84	558.18
		2	27	236	509	1900	120	0.35	0.05	0.22	0.70	0.00	0.70
	Exp	1	61	48	1050	2050	100	2.39	5.16	57.26	9.91	3.36	13.26
		2	18	404	308	2050	100	0.23	2.34	25.03	0.28	0.05	0.33
	F	1	26	242	101	2100	20	11.79	2.37	15.98	4.72	2.59	7.30
		2	15	482	60	2100	20	10.59	2.33	15.65	2.49	1.49	3.98
		3	100	-10	82	2100	20	769.92	17.99	118.56	247.80	8.24	256.04
	Fc	1	100	-10	1546	2263	80	52.63	49.63	155.76	321.00	24.48	345.48
		2	76	18	1125	2263	80	9.43	11.36	35.99	41.82	8.93	50.75
		3	100	-10	1069	2263	80	74.16	38.38	122.41	312.69	36.76	349.45
	Ff	1	8	976	159	1900	120	0.09	0.00	0.01	0.05	0.16	0.22
		2	102	-12	83	1900	120	2176.38	52.35	109.30	714.23	5.95	720.17
	G	1	78	16	377	2050	28	49.64	8.21	30.24	73.73	7.86	81.58
		2	33	174	164	2050	28	41.06	2.82	10.62	26.61	5.78	32.40
	Gf	1	18	393	374	2050	120	0.20	2.34	34.62	0.30	0.05	0.35
		2	7	1265	135	2050	120	0.08	2.32	34.71	0.04	0.06	0.11
	xA	1	67	34	1511	2263	120	1.79	10.06	25.18	10.65	1.99	12.64
		2	56	61	1236	2263	120	1.17	3.14	7.85	5.70	1.93	7.62
	xB	1	0	Unrestricted	1445	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	xC	1	40	123	521	1900	120	7.52	11.73	58.36	15.46	9.97	25.43
		2	21	335	292	1900	120	3.25	4.69	23.28	3.75	4.39	8.14
	xD	1	0	Unrestricted	732	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	Unrestricted	224	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	xE	1	0	Unrestricted	1050	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	Unrestricted	308	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	xF	1	0	Unrestricted	724	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	Cc1	1	24	273	272	2050	64	3.19	2.57	15.40	3.42	2.01	5.44
	E1	1	61	47	313	2050	28	37.01	5.69	40.86	45.74	10.93	56.67
		2	98	-8	537	2200	28	123.95	22.32	160.41	262.80	32.98	295.78
	Gf1	1	5	1793	32	669	120	1.97	0.26	3.07	0.25	0.36	0.61
	Cc2	2	55	62	664	2150	66	11.73	7.34	46.08	30.73	12.58	43.31
		3	73	24	843	2050	66	15.09	14.16	91.20	50.20	19.18	69.39
		4	100	-10	757	2150	66	102.02	26.61	171.99	304.68	44.48	349.15
		5	47	90	550	2050	66	17.22	11.82	76.69	37.38	12.99	50.37
	E2	3	72	25	374	2150	28	29.27	6.04	65.21	43.17	11.50	54.68
		4	26	242	135	2050	28	19.34	2.37	25.04	10.30	3.34	13.64
	TC5	2	57	58	1083	2263	99	1.75	2.81	70.26	7.46	1.03	8.49
		3	65	38	1239	2263	99	1.99	3.23	80.64	9.74	1.16	10.90
		4	0	Unrestricted	0	1800	11	0.00	0.00	0.00	0.00	0.00	0.00
	TC9	1	40	124	560	1925	84	7.26	6.61	41.42	16.05	2.48	18.53
		2	100	-10	365	1966	84	216.23	25.01	156.15	310.92	11.73	322.64
		3	20	347	284	1947	84	3.61	1.47	9.15	4.04	0.46	4.50
	TC35	1	27	236	428	1900	99	1.33	1.68	40.09	2.25	0.55	2.80
	TC36	1	13	604	230	1800	120	0.15	0.01	0.21	0.13	0.00	0.13
	TC37	1	3	3487	41	1850	105	0.90	0.16	2.07	0.15	0.17	0.31
	TC38	1	15	505	41	275	120	3.83	2.43	65.50	0.62	0.77	1.39
	TC39	2	48	88	1084	2263	120	0.73	0.22	3.59	3.13	0.00	3.13
		3	55	64	1239	2263	120	0.96	0.33	5.72	4.70	0.00	4.70
	TC40	2	0	Unrestricted	1125	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
		3	0	Unrestricted	1239	Unrestricted	120	0.00	0.00	0.00	0.00	0.00	0.00
	TC41	1	76	18	94	1850	7	96.62	4.06	42.76	35.83	4.15	39.98
		2	77	17	95	1850	7	98.25	4.15	43.30	36.82	4.23	41.05
	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	63	44	813	1300	120	2.30	0.52	2.24	7.38	0.00	7.38
	48	1	112	-20	1605	1965	120	210.71	114.30	1192.26	1333.97	50.71	1384.68
	49	1	29	205	560	1900	120	0.40	0.06	1.35	0.87	0.00	0.87
		2	88	2	753	1900	120	44.88	44.13	966.87	133.31	7.42	140.73

	50	1	104	-13	1968	1900	120	81.31	44.45	530.88	631.22	15.18	646.39
	51	1	389	-77	943	1900	120	1341.86	358.60	5503.25	4991.20	26.57	5017.77

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	430	430	0		2050	649	66		36	0.65	36
		2	224	224	-1		2050	649	35		161	0.56	36
		3	387	387	55	✓	2050	387	100	✓	-10	0.97	36
		4	350	355	54	✓	2050	649	54		67	1.10	36
	Ac	1	1014	1015	141	✓	2263	1245	81		10	0.90	64
		2	63	63	167	✓	2263	1241	5		1680	1.68	64
		3	155	156	246	✓	2263	156	99	✓	-10	0.62	64
	Acf	1	1081	1077	304	✓	2263	2199	49		83	0.86	120
		2	155	155	246	✓	2263	155	100	✓	-10	1.02	120
	Af	1	654	654	-1		2050	2050	32		182	0.62	120
		2	386	387	57	✓	2050	387	100	✓	-10	1.13	120
		3	350	350	54	✓	2050	2050	17		427	1.10	120
	B	1	408	408	14	✓	2050	683	60		51	0.00	38
		2	390	390	14	✓	2150	595	66		37	0.00	38
		3	551	551	20	✓	2100	688	80		12	0.00	38
		4	550	550	20	✓	2050	683	81		12	0.00	38
	Bc	1	287	289	167	✓	2050	1025	28		222	1.36	58
		2	522	533	242	✓	2050	533	98	✓	-8	0.88	58
		3	376	365	107	✓	2050	845	45		102	1.45	58
	Bcf	1	1445	1445	140	✓	2263	2263	64		41	0.64	120
		2	287	287	167	✓	2263	2263	13		611	1.36	120
		3	522	522	242	✓	2263	522	100	✓	-10	0.94	120
		4	377	376	107	✓	2263	2263	17		441	1.45	120
	Bf	1	798	798	28	✓	1800	1800	44		103	0.00	120
		2	1102	1102	39	✓	1800	1800	61		47	0.00	120
	C	1	537	550	65	✓	2100	560	96	✓	-6	0.50	30
		2	564	564	69	✓	2200	587	96	✓	-6	1.01	30
		3	330	330	40	✓	2050	547	60		49	1.01	30
	Cf	1	537	537	65	✓	1965	1965	27		229	0.50	120
		2	894	894	109	✓	1965	894	100	✓	-10	0.50	120
	D	1	359	359	180	✓	2050	683	52		72	0.87	38
		2	617	617	310	✓	1850	617	100	✓	-10	0.87	38
		3	722	722	140	✓	2250	722	100	✓	-10	1.09	38
	Dc	1	933	933	110	✓	2100	1120	83		8	0.70	62
		2	740	740	90	✓	2100	1120	66		36	0.68	62
		3	750	754	47	✓	2100	802	94	✓	-4	0.55	62
		4	880	880	60	✓	2100	988	89		1	0.81	62
	Dcf	1	735	733	208	✓	2050	2050	36		151	0.89	120
		2	1158	1158	168	✓	2100	1396	83		8	0.58	120
		3	740	740	90	✓	2100	1732	43		111	0.71	120
		4	738	750	59	✓	2100	1794	41		119	0.69	120
		5	880	880	60	✓	2100	1747	50		79	1.11	120
	Df	1	1466	975	0		1900	975	150	✓	-40	0.00	120
		2	862	722	0		2250	722	119	✓	-25	0.00	120
	Dxp	1	733	732	210	✓	2050	1743	42		114	0.82	101
		2	225	224	58	✓	2050	1743	13		597	1.27	101
	Ec	1	673	673	176	✓	2150	1290	52		73	0.84	70
		2	1326	1326	331	✓	2263	1326	100	✓	-10	0.61	70
		3	1084	1084	115	✓	2263	1358	80		13	0.77	70
		4	531	531	101	✓	2250	1350	39		129	1.04	70
		1	1050	1050	168	✓	2100	2095	50		79	0.75	120

07:30-08:30	Ecf	2	981	981	212	✓	2100	2100	47		93	0.74	120
		3	1326	1326	331	✓	2263	1616	82		10	0.48	120
		4	1647	1647	222	✓	2300	1941	85		6	0.43	120
	Ef	1	907	851	0		1900	851	107	✓	-16	0.00	120
		2	509	509	0		1900	1900	27		236	0.00	120
	Exp	1	1050	1050	168	✓	2050	1725	61		48	0.75	100
		2	308	308	36	✓	2050	1725	18		404	1.02	100
	F	1	101	102	289	✓	2100	385	26		242	0.98	20
		2	60	60	169	✓	2100	385	15		482	0.98	20
		3	82	82	241	✓	2100	82	100	✓	-10	1.10	20
	Fc	1	1546	1546	346	✓	2263	1546	100	✓	-10	0.51	80
		2	1125	1125	118	✓	2263	1479	76		18	0.88	80
		3	1069	1070	136	✓	2263	1070	100	✓	-10	0.98	80
	Ff	1	159	161	460	✓	1900	1900	8		976	0.92	120
		2	83	82	240	✓	1900	82	102	✓	-12	0.92	120
	G	1	377	377	0		2050	485	78		16	1.50	28
		2	164	164	6	✓	2050	500	33		174	1.42	28
	Gf	1	374	374	0		2050	2050	18		393	1.50	120
		2	135	135	0		2050	2048	7		1265	1.50	120
	xA	1	1511	1511	538	✓	2263	2246	67		34	0.53	120
		2	1236	1239	211	✓	2263	2218	56		61	0.81	120
	xB	1	1445	1445	140	✓	Unrestricted	Unrestricted	0		Unrestricted	0.52	120
	xC	1	521	521	83	✓	1900	1289	40		123	1.21	120
		2	292	292	88	✓	1900	1410	21		335	1.37	120
	xD	1	732	733	211	✓	Unrestricted	Unrestricted	0		Unrestricted	0.68	120
		2	224	224	59	✓	Unrestricted	Unrestricted	0		Unrestricted	1.17	120
	xE	1	1050	1050	168	✓	Unrestricted	Unrestricted	0		Unrestricted	0.58	120
		2	308	308	36	✓	Unrestricted	Unrestricted	0		Unrestricted	0.81	120
	xF	1	724	724	180	✓	Unrestricted	Unrestricted	0		Unrestricted	0.72	120
	Cc1	1	272	272	165	✓	2050	1128	24		273	1.09	64
	E1	1	313	313	21	✓	2050	513	61		47	0.94	28
		2	537	537	36	✓	2200	550	98	✓	-8	0.94	28
	Gf1	1	32	32	6	✓	669	669	5		1793	1.07	120
	Cc2	2	664	654	191	✓	2150	1198	55		62	0.76	66
		3	843	843	73	✓	2050	1162	73		24	0.96	66
		4	757	759	132	✓	2150	759	100	✓	-10	0.70	66
		5	550	550	20	✓	2050	1161	47		90	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	1083	1084	378	✓	2263	1905	57		58	0.58	99
		3	1239	1239	208	✓	2263	1905	65		38	0.79	99
		4	0	0	0		1800	180	0		Unrestricted	0.00	11
	TC9	1	560	560	-1		1925	1396	40		124	0.00	84
		2	365	365	57	✓	1966	365	100	✓	-10	0.94	84
		3	284	276	46	✓	1947	1412	20		347	0.94	84
	TC35	1	428	430	160	✓	1900	1599	27		236	0.77	99
	TC36	1	230	230	0		1800	1800	13		604	0.00	120
	TC37	1	41	41	0		1850	1634	3		3487	0.00	105
	TC38	1	41	41	0		275	275	15		505	0.23	120
	TC39	2	1084	1084	377	✓	2263	2263	48		88	0.65	120
		3	1239	1239	208	✓	2263	2263	55		64	0.82	120
	TC40	2	1125	1125	377	✓	Unrestricted	Unrestricted	0		Unrestricted	0.55	120
		3	1239	1239	208	✓	Unrestricted	Unrestricted	0		Unrestricted	0.69	120
	TC41	1	94	94	1		1850	123	76		18	0.00	7
		2	95	95	-1		1850	123	77		17	0.00	7
	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	813	813	171	✓	1300	1300	63		44	0.70	120

	48	1	1605	1431	0		1965	1431	112	✓	-20	0.00	120
	49	1	560	560	-1		1900	1900	29		205	0.00	120
		2	753	649	-1		1900	851	88		2	0.00	120
	50	1	1968	1900	-1		1900	1900	104	✓	-13	0.00	120
	51	1	943	242	-1		1900	242	389	✓	-77	0.00	120

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	18.76	2.24	31.82	87.61	376.71	12.09
		2	5.77	11.75	0.73	10.38	66.02	147.88	4.75
		3	5.90	174.25	18.74	266.11	169.74	657.28	21.10
		4	6.03	23.47	2.28	32.43	85.79	304.93	9.79
	Ac	1	7.19	23.26	6.55	93.03	91.36	927.65	29.78
		2	9.50	1.65	0.03	0.41	78.21	48.98	0.84
		3	6.60	430.46	18.52	262.97	252.99	392.79	12.61
	Acf	1	5.22	0.91	0.27	3.87	4.08	43.89	1.41
		2	7.24	385.61	16.58	235.49	211.08	326.92	5.58
	Af	1	6.42	0.41	0.07	1.06	0.00	0.00	0.00
		2	6.36	142.02	15.21	215.98	152.78	591.50	7.42
		3	6.33	0.18	0.02	0.25	0.00	0.00	0.00
	B	1	7.10	20.54	2.33	33.08	79.79	325.86	10.46
		2	7.29	22.76	2.47	35.01	82.94	323.48	10.38
		3	7.48	28.41	4.35	61.78	93.50	515.44	16.55
		4	12.29	28.75	4.39	62.40	100.80	554.69	6.95
	Bc	1	11.96	1.26	0.10	1.42	4.26	12.31	0.27
		2	11.83	170.77	24.75	351.49	253.87	1343.75	29.95
		3	11.71	6.29	0.66	9.33	61.78	225.42	5.02
	Bcf	1	4.18	1.40	0.56	8.00	0.00	0.00	0.00
		2	6.10	0.12	0.01	0.13	0.01	0.01	0.00
		3	5.92	128.91	18.68	265.27	144.92	755.76	17.85
		4	6.44	0.16	0.02	0.24	0.07	0.28	0.00
	Bf	1	27.34	0.80	0.18	2.51	0.00	0.00	0.00
		2	27.41	1.57	0.48	6.83	0.00	0.00	0.00
	C	1	14.54	98.88	14.74	209.36	179.27	985.20	12.35
		2	14.68	136.33	21.37	303.51	250.08	1411.48	17.70
		3	14.92	23.75	2.18	30.91	108.10	356.63	4.47
	Cf	1	17.35	0.34	0.05	0.73	0.00	0.00	0.00
		2	17.50	107.10	26.61	377.81	208.61	1865.68	23.39
	D	1	4.13	27.23	2.71	38.51	80.24	287.71	9.24
		2	4.13	105.99	18.16	257.82	134.49	829.33	26.62
		3	3.97	88.57	17.77	252.28	100.58	726.26	23.31
	Dc	1	3.80	18.28	4.74	67.25	59.66	556.78	17.87
		2	3.65	12.74	2.62	37.18	60.31	446.15	14.32
		3	3.51	35.31	7.35	104.42	94.01	708.59	22.74
		4	3.36	22.62	5.53	78.54	74.18	652.93	20.96
	Dcf	1	4.95	0.49	0.10	1.42	0.11	0.84	0.03
		2	4.94	13.92	4.48	63.56	55.87	645.38	20.72
		3	5.44	1.16	0.24	3.38	7.57	56.02	1.69
		4	7.19	1.87	0.38	5.45	14.11	105.81	1.89
		5	5.02	4.88	1.19	16.96	37.69	331.80	10.65
	Df	1	24.00	613.87	249.98	3549.75	398.01	3881.53	48.67
		2	24.00	315.85	75.63	1073.94	318.38	2298.99	28.83
	Dxp	1	3.50	1.16	0.24	3.35	5.28	38.71	1.24
		2	3.65	0.28	0.02	0.25	1.30	2.92	0.09
	Ec	1	3.76	7.27	1.36	19.30	41.01	275.98	8.86
		2	3.63	54.29	20.00	283.94	68.28	905.37	29.06
		3	3.51	7.18	2.16	30.70	26.26	284.57	9.13

07:30-08:30		4	3.44	12.14	1.79	25.46	78.95	419.60	13.47
	Ecf	1	3.45	0.88	0.26	3.66	1.88	19.74	0.63
		2	3.48	0.75	0.20	2.91	0.00	0.01	0.00
		3	3.52	9.31	3.43	48.68	37.71	499.56	16.04
		4	3.84	6.76	3.09	43.89	28.56	470.29	14.85
	Ef	1	15.31	148.80	37.49	532.34	242.24	2060.99	25.84
		2	15.31	0.35	0.05	0.70	0.00	0.00	0.00
	Exp	1	3.89	2.39	0.70	9.91	9.96	104.61	3.36
		2	4.03	0.23	0.02	0.28	0.51	1.56	0.05
	F	1	6.38	11.79	0.33	4.72	79.40	80.66	2.59
		2	6.43	10.59	0.18	2.49	78.06	46.56	1.49
		3	6.54	769.92	17.45	247.80	314.94	256.83	8.24
	Fc	1	19.10	52.63	22.61	321.00	95.08	1468.62	24.48
		2	18.73	9.43	2.94	41.82	46.80	526.48	8.93
		3	19.42	74.16	22.02	312.69	219.44	2347.59	36.76
	Ff	1	33.09	0.09	0.00	0.05	7.99	12.86	0.16
		2	33.05	2176.38	50.30	714.23	581.40	474.40	5.95
	G	1	16.06	49.64	5.19	73.73	122.27	460.38	7.86
		2	11.45	41.06	1.87	26.61	109.68	180.22	5.78
	Gf	1	2.92	0.20	0.02	0.30	0.43	1.61	0.05
		2	2.88	0.08	0.00	0.04	1.44	1.95	0.06
	xA	1	17.22	1.79	0.75	10.65	4.11	62.04	1.99
		2	17.25	1.17	0.40	5.70	4.85	60.06	1.93
	xB	1	5.79	0.00	0.00	0.00	0.00	0.00	0.00
	xC	1	8.67	7.52	1.09	15.46	59.59	310.51	9.97
		2	8.70	3.25	0.26	3.75	46.86	136.78	4.39
	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	12.19	0.00	0.00	0.00	0.00	0.00	0.00
	Cc1	1	6.80	3.19	0.24	3.42	19.88	54.10	2.01
	E1	1	6.00	37.01	3.22	45.74	108.67	340.46	10.93
		2	6.00	123.95	18.51	262.80	191.18	1027.58	32.98
	Gf1	1	3.69	1.97	0.02	0.25	35.27	11.23	0.36
	Cc2	2	7.26	11.73	2.16	30.73	62.67	409.24	12.58
		3	7.31	15.09	3.54	50.20	79.41	669.80	19.18
		4	7.00	102.02	21.46	304.68	188.55	1426.41	44.48
		5	7.98	17.22	2.63	37.38	105.87	582.61	12.99
	E2	3	4.00	29.27	3.04	43.17	95.81	358.32	11.50
		4	4.07	19.34	0.73	10.30	77.08	104.06	3.34
	TC5	2	2.76	1.75	0.53	7.46	7.59	82.28	1.03
		3	2.76	1.99	0.69	9.74	7.47	92.54	1.16
		4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TC9	1	11.00	7.26	1.13	16.05	35.31	197.75	2.48
		2	11.05	216.23	21.90	310.92	256.54	935.18	11.73
		3	11.12	3.61	0.28	4.04	13.17	36.40	0.46
	TC35	1	2.90	1.33	0.16	2.25	10.24	44.02	0.55
	TC36	1	3.03	0.15	0.01	0.13	0.00	0.00	0.00
	TC37	1	3.19	0.90	0.01	0.15	11.69	4.79	0.17
	TC38	1	1.53	3.83	0.04	0.62	54.26	22.24	0.77
	TC39	2	2.54	0.73	0.22	3.13	0.00	0.00	0.00
		3	2.40	0.96	0.33	4.70	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	96.62	2.52	35.83	126.80	119.19	4.15
		2	3.97	98.25	2.59	36.82	127.91	121.51	4.23
	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	2.30	0.52	7.38	0.01	0.10	0.00
	48	1	6.61	210.71	93.94	1333.97	282.62	4044.53	50.71
	49	1	3.15	0.40	0.06	0.87	0.00	0.00	0.00
		2	3.15	44.88	9.39	133.31	91.22	591.95	7.42
	50	1	5.78	81.31	44.45	631.22	63.70	1210.27	15.18
	51	1	4.50	1341.86	351.49	4991.20	875.01	2118.82	26.57

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	8.07	12.96	62.26	0.00	0.00	
		2	0.00	2.71	13.37	20.30	0.00	0.00	
		3	0.00	20.93	13.67	153.08	0.00	15.33	
		4	0.00	5.80	13.97	41.53	0.00	11.00	
	Ac	1	0.00	16.72	16.66	100.36	0.00	0.00	
		2	0.00	1.69	16.06	10.54	0.00	52.19	
		3	0.00	19.47	15.30	127.29	0.00	57.74	
	Acf	1	0.00	2.64	12.10	21.85	0.00	28.41	
		2	0.00	17.58	12.25	143.52	0.00	111.79	
	Af	1	0.00	0.07	9.31	0.80	0.00	25.00	
		2	0.00	17.64	9.21	191.50	0.00	97.34	
		3	0.00	0.02	9.17	0.19	0.00	59.00	
	B	1	0.00	5.51	16.46	33.44	0.00	0.00	
		2	0.00	5.46	16.90	32.30	0.00	6.82	
		3	0.00	8.88	17.34	51.24	0.00	0.67	
		4	0.00	9.34	17.81	52.44	0.00	0.00	
	Bc	1	0.00	0.19	23.10	0.80	0.00	14.00	
		2	0.00	29.67	22.87	129.76	0.00	28.78	
		3	0.00	9.84	22.63	43.51	0.00	27.53	
	Bcf	1	0.00	0.56	10.90	5.17	0.00	16.00	
		2	0.00	0.01	10.98	0.08	0.00	68.00	
		3	0.00	21.42	10.84	197.54	0.00	92.33	
		4	0.00	0.02	10.83	0.15	0.00	80.00	
	Bf	1	0.00	0.18	39.62	0.45	0.00	0.00	
		2	0.00	0.48	39.73	1.21	0.00	0.00	
	C	1	0.00	20.37	21.07	96.71	0.00	0.00	
		2	0.00	27.38	21.28	128.65	0.00	0.00	
		3	0.00	5.95	21.63	27.53	0.00	10.00	
	Cf	1	0.00	0.05	25.15	0.20	0.00	22.00	
		2	0.00	39.11	25.37	154.16	0.00	65.38	
	D	1	0.00	4.93	9.57	51.52	0.00	2.00	
		2	0.00	21.21	9.57	221.75	0.00	0.00	
		3	0.00	19.91	9.20	216.53	0.00	1.49	
	Dc	1	0.00	8.96	8.81	101.72	0.00	0.01	
		2	0.00	7.54	8.47	89.01	0.00	0.00	
		3	0.00	11.65	8.14	143.23	0.00	19.20	
		4	0.00	9.67	7.80	124.08	0.00	13.54	
	Dcf	1	0.00	0.10	11.47	0.87	0.00	20.00	
		2	0.00	10.90	11.46	95.05	0.00	50.26	
		3	0.00	2.40	11.93	20.09	0.00	35.05	
		4	0.00	3.54	11.60	30.50	0.00	48.48	
		5	0.00	9.88	11.64	84.89	0.00	66.19	
	Df	1	0.00	262.09	34.78	753.49	0.00	58.41	
		2	0.00	84.04	34.78	241.63	0.00	81.49	
	Dxp	1	0.00	1.49	8.11	18.38	0.00	7.00	
		2	0.00	0.10	8.46	1.23	0.00	59.00	
		1	0.00	5.07	8.71	58.23	0.00	14.00	

07:30-08:30	Ec	2	0.00	24.67	8.42	292.84	0.00	1.69	
		3	0.00	4.79	8.13	58.87	0.00	0.00	
		4	0.00	7.01	7.99	87.77	0.00	30.00	
	Ecf	1	0.00	4.90	7.99	61.32	0.00	22.30	
		2	0.00	0.20	8.06	2.54	0.00	20.00	
		3	0.00	8.45	8.16	103.55	0.00	43.32	
		4	0.00	8.19	8.76	93.47	0.00	32.72	
	Ef	1	0.00	47.86	22.18	215.77	0.00	66.27	
		2	0.00	0.05	22.18	0.22	0.00	0.00	
	Exp	1	0.00	5.16	9.01	57.26	0.00	16.00	
		2	0.00	2.34	9.34	25.03	0.00	37.00	
	F	1	0.00	2.37	14.80	15.98	0.00	8.00	
		2	0.00	2.33	14.91	15.65	0.00	9.00	
		3	0.00	17.99	15.17	118.56	0.00	17.34	
	Fc	1	0.00	49.63	31.86	155.76	0.00	0.00	
		2	0.00	11.36	31.56	35.99	0.00	9.56	
		3	0.00	38.38	31.35	122.41	0.00	25.27	
	Ff	1	0.00	0.00	47.95	0.01	0.00	57.00	
		2	0.00	52.35	47.89	109.30	0.00	114.85	
	G	1	0.00	8.21	27.16	30.24	0.00	7.61	
		2	0.00	2.82	26.54	10.62	0.00	18.73	
	Gf	1	0.00	2.34	6.76	34.62	0.00	90.02	
		2	0.00	2.32	6.69	34.71	0.00	90.11	
	xA	1	0.00	10.06	39.94	25.18	0.00	24.92	
		2	0.00	3.14	39.99	7.85	0.00	38.39	
	xB	1	0.00	0.00	13.42	0.00	0.00	1.00	
	xC	1	0.00	11.73	20.10	58.36	0.00	56.57	
		2	0.00	4.69	20.17	23.28	0.00	66.92	
	xD	1	0.00	0.00	21.17	0.00	0.00	11.00	
		2	0.00	0.00	21.35	0.00	0.00	68.00	
	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	42.00	
	xF	1	0.00	0.00	28.27	0.00	0.00	6.00	
	Cc1	1	0.00	2.57	16.67	15.40	0.00	18.00	
	E1	1	0.00	5.69	13.91	40.86	0.00	10.00	
		2	0.00	22.32	13.91	160.41	0.00	0.00	
	Gf1	1	0.00	0.26	8.57	3.07	0.00	88.00	
	Cc2	2	0.00	7.34	15.93	46.08	0.00	1.16	
		3	0.00	14.16	15.52	91.20	0.00	12.00	
		4	0.00	26.61	15.47	171.99	0.00	25.66	
		5	0.00	11.82	15.42	76.69	0.00	34.06	
	E2	3	0.00	6.04	9.27	65.21	0.00	0.94	
		4	0.00	2.37	9.45	25.04	0.00	0.00	
	TC5	2	0.00	2.81	4.01	70.26	0.00	15.00	
		3	0.00	3.23	4.00	80.64	0.00	22.00	
		4	0.00	0.00	4.25	0.00	0.00	12.00	
	TC9	1	0.00	6.61	15.95	41.42	0.00	0.00	
		2	0.00	25.01	16.02	156.15	0.00	64.75	
		3	0.00	1.47	16.12	9.15	0.00	34.00	
	TC35	1	0.00	1.68	4.20	40.09	0.00	15.00	
	TC36	1	0.00	0.01	4.39	0.21	0.00	0.00	
	TC37	1	0.00	0.16	7.71	2.07	0.00	105.00	
	TC38	1	0.00	2.43	3.71	65.50	0.00	50.00	
	TC39	2	0.00	0.22	6.13	3.59	0.00	34.00	
		3	0.00	0.33	5.79	5.72	0.00	41.00	
	TC40	2	0.00	0.00	10.22	0.00	0.00	18.00	
		3	0.00	0.00	9.71	0.00	0.00	26.00	

	TC41	1	0.00	4.06	9.50	42.76	0.00	0.00	
		2	0.00	4.15	9.58	43.30	0.00	0.00	
	TC42	1	0.00	0.00	4.06	0.00	0.00	0.00	
	TC43	1	0.00	0.00	9.04	0.00	0.00	120.00	
	47	1	0.00	0.52	23.24	2.24	0.00	18.00	
	48	1	0.00	114.30	9.59	1192.26	0.00	32.60	
	49	1	0.00	0.06	4.56	1.35	0.00	0.00	
		2	0.00	44.13	4.56	966.87	0.00	66.23	
	50	1	0.00	44.45	8.37	530.88	0.00	0.00	
	51	1	0.00	358.60	6.52	5503.25	0.00	104.71	

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	✓	8.07	0.65	6.20	1.00	0.00	43.91
		2	0.00	0.00	✓	2.71	0.09	2.44	1.00	0.00	15.13
		3	0.00	0.00		24.97	19.22	24.97	1.00	0.00	287.21
		4	0.00	0.00		5.80	0.32	5.58	1.00	0.00	42.22
	Ac	1	0.00	0.00		16.74	1.77	12.30	1.00	0.00	122.81
		2	0.00	0.00		1.69	0.00	0.82	1.00	0.00	1.24
		3	0.00	0.00		21.84	20.88	21.83	1.00	0.00	275.58
	Acf	1	0.00	0.00		2.64			1.00	0.00	5.28
		2	0.00	0.00		20.13			1.00	0.00	241.07
	Af	1	0.00	0.00	✓	0.07			1.00	0.00	1.06
		2	0.00	0.00		21.30			1.00	0.00	223.39
		3	0.00	0.00		0.02			1.00	0.00	0.25
	B	1	0.00	0.00	✓	5.51	0.44	5.17	1.00	0.00	43.54
		2	0.00	0.00		5.46	0.62	5.10	1.00	0.00	45.39
		3	0.00	0.00		8.91	1.58	8.01	1.00	0.00	78.32
		4	0.00	0.00	✓	9.37	1.64	8.36	1.00	0.00	69.35
	Bc	1	0.00	0.00		0.19	0.05	0.19	1.00	0.00	1.70
		2	0.00	0.00		32.15	21.84	31.96	1.00	0.00	381.44
		3	0.00	0.00		9.84	0.18	0.35	1.00	0.00	14.35
	Bcf	1	0.00	0.00		0.56			1.00	0.00	8.00
		2	0.00	0.00		0.01			1.00	0.00	0.13
		3	0.00	0.00		26.11			1.00	0.00	283.12
		4	0.00	0.00		0.02			1.00	0.00	0.24
	Bf	1	0.00	0.00	✓	0.18			1.00	0.00	2.51
		2	0.00	0.00	✓	0.48			1.00	0.00	6.83
	C	1	0.00	0.00		21.68	8.61	20.58	1.00	0.00	221.71
		2	0.00	0.00	✓	28.84	13.51	28.84	1.00	0.00	321.21
		3	0.00	0.00	✓	5.96	0.46	5.95	1.00	0.00	35.38
	Cf	1	0.00	0.00	✓	0.05			1.00	0.00	0.73
		2	0.00	0.00	✓	45.29			1.00	0.00	401.20
	D	1	0.00	0.00	✓	4.93	0.29	4.80	1.00	0.00	47.75
		2	0.00	0.00	✓	26.35	18.07	26.35	1.00	0.00	284.44
		3	0.00	0.00	✓	25.47	19.05	25.47	1.00	0.00	275.59
	Dc	1	0.00	0.00		8.99	2.05	8.98	1.00	0.00	85.12
		2	0.00	0.00		7.54	0.64	7.48	1.00	0.00	51.50
		3	0.00	0.00		12.19	5.97	9.93	1.00	0.00	127.16
		4	0.00	0.00	✓	9.80	3.49	8.98	1.00	0.00	99.50
	Dcf	1	0.00	0.00		0.10			1.00	0.00	1.45
		2	0.00	0.00		10.92			1.00	0.00	84.28
		3	0.00	0.00		2.40			1.00	0.00	5.07
		4	0.00	0.00		3.54			1.00	0.00	7.34
		5	0.00	0.00	✓	9.88			1.00	0.00	27.61

	Df	1	0.00	0.00	✓	507.48			1.00	0.00	3598.42
		2	0.00	0.00	✓	154.05			1.00	0.00	1102.77
	Dxp	1	0.00	0.00		1.49	0.15	1.32	1.00	0.00	4.59
		2	0.00	0.00		0.10	0.01	0.10	1.00	0.00	0.34
	Ec	1	0.00	0.00		5.07	0.28	4.77	1.00	0.00	28.16
		2	0.00	0.00		32.20	25.73	32.19	1.00	0.00	313.00
		3	0.00	0.00	✓	4.80	1.56	4.75	1.00	0.00	39.84
		4	0.00	0.00	✓	7.01	0.13	6.90	1.00	0.00	38.93
	Ecf	1	0.00	0.00		4.90			1.00	0.00	4.30
		2	0.00	0.00		0.20			1.00	0.00	2.91
		3	0.00	0.00		8.47			1.00	0.00	64.71
		4	0.00	0.00	✓	8.21			1.00	0.00	58.74
	Ef	1	0.00	0.00	✓	76.58			1.00	0.00	558.18
		2	0.00	0.00	✓	0.05			1.00	0.00	0.70
07:30-08:30	Exp	1	0.00	0.00		5.16	0.47	2.23	1.00	0.00	13.26
		2	0.00	0.00		2.34	0.02	0.02	1.00	0.00	0.33
	F	1	0.00	0.00		2.37	0.05	1.35	1.00	0.00	7.30
		2	0.00	0.00		2.33	0.01	0.78	1.00	0.00	3.98
		3	0.00	0.00		19.86	18.18	19.86	1.00	0.00	256.04
	Fc	1	0.00	0.00		57.77	27.32	36.85	1.00	0.00	345.48
		2	0.00	0.00		11.36	1.75	6.51	1.00	0.00	50.75
		3	0.00	0.00		44.94	22.24	32.55	1.00	0.00	349.45
	Ff	1	0.00	0.00		0.00			1.00	0.00	0.22
		2	0.00	0.00		54.66			1.00	0.00	720.17
	G	1	0.00	0.00	✓	8.24	1.32	7.60	1.00	0.00	81.58
		2	0.00	0.00	✓	2.82	0.08	2.82	1.00	0.00	32.40
	Gf	1	0.00	0.00	✓	2.34			1.00	0.00	0.35
		2	0.00	0.00	✓	2.32			1.00	0.00	0.11
	xA	1	0.00	0.00		10.06			1.00	0.00	12.64
		2	0.00	0.00		3.14			1.00	0.00	7.62
	xB	1	0.00	0.00		0.00			1.00	0.00	0.00
	xC	1	0.00	0.00		11.73			1.00	0.00	25.43
		2	0.00	0.00		4.69			1.00	0.00	8.14
	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		2.57	0.04	0.91	1.00	0.00	5.44
	E1	1	0.00	0.00	✓	5.69	0.48	5.69	1.00	0.00	56.67
		2	0.00	0.00	✓	24.73	13.75	24.72	1.00	0.00	295.78
	Gf1	1	0.00	0.00	✓	0.26			1.00	0.00	0.61
	Cc2	2	0.00	0.00		7.34	0.34	6.75	1.00	0.00	43.31
		3	0.00	0.00		14.16	0.96	10.03	1.00	0.00	69.39
		4	0.00	0.00		31.95	22.82	31.20	1.00	0.00	349.15
		5	0.00	0.00	✓	11.82	0.21	9.33	1.00	0.00	50.37
	E2	3	0.00	0.00	✓	6.05	0.91	5.77	1.00	0.00	54.68
		4	0.00	0.00	✓	2.37	0.05	1.73	1.00	0.00	13.64
	TC5	2	0.00	0.00		2.81	0.37	2.39	1.00	0.00	8.49
		3	0.00	0.00		3.23	0.60	2.64	1.00	0.00	10.90
		4	0.00	0.00	✓	0.00	0.00	0.00	1.00	0.00	0.00
	TC9	1	0.00	0.00	✓	6.61	0.13	5.77	1.00	0.00	18.53
		2	0.00	0.00		28.96	28.12	28.96	1.00	0.00	322.64
		3	0.00	0.00		1.47	0.03	1.08	1.00	0.00	4.50
	TC35	1	0.00	0.00		1.68	0.05	1.22	1.00	0.00	2.80
	TC36	1	0.00	0.00	✓	0.01			1.00	0.00	0.13
	TC37	1	0.00	0.00	✓	0.16	0.00	0.16	1.00	0.00	0.31
	TC38	1	0.00	0.00		2.43			1.00	0.00	1.39

	TC39	2	0.00	0.00		0.22			1.00	0.00	3.13
		3	0.00	0.00		0.33			1.00	0.00	4.70
	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	✓	4.12	1.15	4.10	1.00	0.00	39.98
		2	0.00	0.00	✓	4.22	1.21	4.19	1.00	0.00	41.05
	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		0.52			1.00	0.00	7.38
	48	1	0.00	0.00	✓	201.35			1.00	0.00	1384.68
	49	1	0.00	0.00	✓	0.06			1.00	0.00	0.87
		2	0.00	0.00		44.25			1.00	0.00	140.73
	50	1	0.00	0.00	✓	79.76			1.00	0.00	646.39
	51	1	0.00	0.00		709.03			1.00	0.00	5017.77

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	68	0.00	0.00	0.00	0.00
		2	0	0	11000	68	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

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	6783	0		Unrestricted	0.00	68
		2	0	0	0		11000	6783	0		Unrestricted	0.00	68
	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

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	19/07/2021 20:25:09	19/07/2021 20:25:23	07:30	120	20597.37	1378.09	389.43	51/1	26	18	TC42/1	51/1	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	389	-100	73246	9751	67.73	19568.89	1028.48	20597.37

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	1178	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	73246	71537	13173	✓	389	✓	-100	10929

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	8.65	67.73	1378.09	19568.89	81.11	50139.45	1028.48

Network Results: Queues and blocking

Time Segment	Utilised storage (%)	Excess queue penalty (£ per hr)	Wasted time total (s (per cycle))
07:30-08:30	5503.25	0.00	3373.10

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	20597.37

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	194.6	194.0	309.5	292.5	392.9	332.8	0.0
	B28	580.4	0.0	371.6	543.0	439.3	697.9	568.5	0.0
	C28	607.0	530.1	0.0	705.0	698.0	913.0	830.1	0.0
	D28	1446.0	1468.6	5494.1	0.0	5436.7	1428.2	1436.3	0.0
	E28	426.8	147.4	1529.9	219.3	0.0	307.6	311.1	0.0
	F28	151.7	189.1	731.8	208.4	560.5	0.0	16.9	0.0
	G28	63.9	99.8	860.7	178.9	715.8	351.9	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)
23	C28	A28	594	604.31	594	604.31

24	C28	C28	0	0.00	0	0.00
25	C28	C28	0	0.00	0	0.00
32	C28	E28	176	698.01	176	698.01
36	C28	E28	0	0.00	0	0.00
41	E28	A28	495	432.27	495	432.27
42	E28	C28	39	1537.62	39	1537.62
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
49	C28	D28	363	704.97	363	704.97
50	E28	D28	55	219.30	55	219.30
68	E28	G28	183	315.82	183	315.82
91	C28	F28	61	913.03	61	913.03
92	E28	F28	52	307.63	52	307.63
96	A28	C28	0	0.00	0	0.00
97	G28	D28	0	0.00	0	0.00
98	G28	E28	0	0.00	0	0.00
99	C28	B28	35	528.50	35	528.50
100	E28	B28	135	127.94	135	127.94
101	E28	E28	0	0.00	0	0.00
102	A28	C28	371	188.09	371	188.09
103	F28	B28	0	0.00	0	0.00
104	C28	G28	629	921.22	629	921.22
105	D28	H28	0	0.00	0	0.00
106	G28	C28	150	954.65	150	954.65
107	A28	B28	26	192.99	26	192.99
108	B28	G28	332	496.01	332	496.01
109	C28	G28	230	513.44	230	513.44
110	E28	G28	22	271.96	22	271.96
111	B28	G28	0	0.00	0	0.00
112	F28	G28	41	16.86	41	16.86
113	F28	A28	73	151.68	73	151.68
114	C28	H28	0	0.00	0	0.00
115	B28	C28	9	382.30	9	382.30
117	H28	H28	0	0.00	0	0.00
121	A28	A28	0	0.00	0	0.00
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
125	H28	A28	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	5	183.06	5	183.06
130	G28	C28	150	1070.08	150	1070.08
131	G28	E28	123	1091.62	123	1091.62
132	H28	C28	0	0.00	0	0.00
133	H28	E28	0	0.00	0	0.00
134	H28	D28	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	5656.33	8	5656.33
140	D28	D28	0	0.00	0	0.00
141	D28	E28	8	5636.51	8	5636.51
142	C28	H28	0	0.00	0	0.00
143	E28	H28	0	0.00	0	0.00

144	H28	D28	0	0.00	0	0.00
145	H28	H28	0	0.00	0	0.00
149	C28	B28	3	549.30	3	549.30
150	E28	B28	374	154.46	374	154.46
151	B28	A28	0	0.00	0	0.00
152	H28	B28	0	0.00	0	0.00
153	F28	B28	17	189.08	17	189.08
154	E28	A28	18	276.04	18	276.04
155	E28	C28	4	318.20	4	318.20
156	C28	G28	60	831.30	60	831.30
157	H28	B28	0	0.00	0	0.00
158	B28	D28	287	543.03	287	543.03
159	B28	E28	120	542.85	120	542.85
160	B28	G28	175	706.12	175	706.12
161	B28	F28	51	697.92	51	697.92
162	B28	H28	0	0.00	0	0.00
163	B28	A28	38	580.38	38	580.38
164	B28	B28	0	0.00	0	0.00
165	B28	B28	0	0.00	0	0.00
166	B28	C28	88	370.48	88	370.48
167	B28	E28	505	414.65	505	414.65
168	G28	A28	357	63.89	357	63.89
169	G28	B28	72	100.25	72	100.25
170	G28	B28	72	99.37	72	99.37
171	G28	H28	0	0.00	0	0.00
172	F28	D28	69	208.42	69	208.42
173	F28	E28	5	208.25	5	208.25
174	F28	F28	0	0.00	0	0.00
175	G28	C28	0	0.00	0	0.00
176	G28	E28	66	294.37	66	294.37
177	G28	D28	128	178.93	128	178.93
178	G28	E28	34	174.28	34	174.28
179	F28	E28	5	912.76	5	912.76
180	F28	D28	0	0.00	0	0.00
181	G28	G28	0	0.00	0	0.00
185	A28	B28	26	196.13	26	196.13
186	A28	C28	25	281.17	25	281.17
187	A28	E28	309	314.78	309	314.78
195	D28	G28	185	1436.37	185	1436.37
196	D28	F28	152	1428.17	152	1428.17
197	D28	G28	53	1436.01	53	1436.01
198	D28	A28	3	1445.98	3	1445.98
199	D28	B28	113	1468.90	113	1468.90
200	D28	B28	113	1468.21	113	1468.21
201	D28	C28	228	5523.86	228	5523.86
204	D28	C28	45	5343.60	45	5343.60
205	D28	E28	27	5365.67	27	5365.67
206	D28	D28	0	0.00	0	0.00
207	D28	E28	8	5267.72	8	5267.72
210	A28	G28	570	296.93	570	296.93
211	A28	H28	0	0.00	0	0.00
212	A28	D28	0	0.00	0	0.00
213	A28	E28	102	217.12	102	217.12
214	G28	G28	0	0.00	0	0.00
215	G28	F28	102	351.93	102	351.93
218	A28	G28	289	401.24	289	401.24
219	A28	F28	170	392.92	170	392.92
220	H28	F28	0	0.00	0	0.00

222	A28	D28	2	309.49	2	309.49
223	A28	E28	68	304.12	68	304.12
224	D28	D28	0	0.00	0	0.00
225	D28	E28	0	0.00	0	0.00
226	H28	D28	0	0.00	0	0.00
227	H28	E28	0	0.00	0	0.00
230	G28	G28	0	0.00	0	0.00
231	A28	G28	10	401.17	10	401.17
232	A28	H28	0	0.00	0	0.00
233	B28	H28	0	0.00	0	0.00
234	C28	G28	170	920.97	170	920.97
235	E28	G28	0	0.00	0	0.00
236	E28	H28	0	0.00	0	0.00
238	D28	B28	0	0.00	0	0.00
239	D28	B28	0	0.00	0	0.00
240	G28	C28	59	92.23	59	92.23
241	E28	C28	0	0.00	0	0.00
242	H28	C28	0	0.00	0	0.00
243	G28	D28	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	1646.37	39	1646.37
247	E28	E28	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
254	A28	A28	0	0.00	0	0.00
255	C28	A28	0	0.00	0	0.00
256	C28	C28	0	0.00	0	0.00
257	C28	H28	0	0.00	0	0.00
258	C28	A28	7	835.07	7	835.07
259	C28	C28	0	0.00	0	0.00
260	C28	A28	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	F28	C28	0	0.00	0	0.00
269	F28	E28	0	0.00	0	0.00
270	F28	D28	0	0.00	0	0.00
271	F28	E28	0	0.00	0	0.00
272	F28	H28	0	0.00	0	0.00
273	F28	H28	0	0.00	0	0.00
274	F28	C28	0	0.00	0	0.00
275	F28	C28	16	891.09	16	891.09
276	F28	E28	0	0.00	0	0.00

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	430	2050	36	0.00	66	36	24.35	18.76	87.61	8.07
	2	(untitled)	6	771-2	E	224	2050	36	0.00	35	161	17.52	11.75	66.02	2.71
	3	(untitled)	6	771-2	E	387 <	2050	36	15.33	100	-10	180.15	174.25	169.74	20.93 +
	4	(untitled)	6	771-2	E	350	2050	36	11.00	54	67	29.50	23.47	85.79	5.80
Ac	1	(untitled)	6	771-2	D	1014 <	2263	64	0.00	81	10	30.45	23.26	91.36	16.72 +
	2	(untitled)	6	771-2	D	63	2263	64	52.19	5	1680	11.15	1.65	78.21	1.69
	3	(untitled)	6	771-2	D	155 <	2263	64	57.74	99	-10	437.05	430.46	252.99	19.47 +
Acf	1	(untitled)	6			1081	2263	120	28.41	49	83	6.13	0.91	4.08	2.64
	2	(untitled)	6			155 <	2263	120	111.79	100	-10	392.85	385.61	211.08	17.58 +
Af	1	(untitled)	6			654	2050	120	25.00	32	182	6.84	0.41	0.00	0.07
	2	(untitled)	6			386 <	2050	120	97.34	100	-10	148.38	142.02	152.78	17.64 +
	3	(untitled)	6			350	2050	120	59.00	17	427	6.51	0.18	0.00	0.02
B	1	(untitled)	1	769-1	B	408	2050	38	0.00	60	51	27.64	20.54	79.79	5.51
	2	(untitled)	1	769-1	B	390	2150	38	6.82	66	37	30.05	22.76	82.94	5.46
	3	(untitled)	1	769-1	B	551	2100	38	0.67	80	12	35.89	28.41	93.50	8.88
	4	(untitled)	1	769-1	B	550	2050	38	0.00	81	12	41.04	28.75	100.80	9.34
Bc	1	(untitled)	1	769-1	A	287	2050	58	14.00	28	222	13.22	1.26	4.26	0.19
	2	(untitled)	1	769-1	A	522 <	2050	58	28.78	98	-8	182.60	170.77	253.87	29.67 +
	3	(untitled)	1	769-1	A	376	2050	58	27.53	45	102	17.99	6.29	61.78	9.84
Bcf	1	(untitled)	1			1445	2263	120	16.00	64	41	5.58	1.40	0.00	0.56
	2	(untitled)	1			287	2263	120	68.00	13	611	6.21	0.12	0.01	0.01
	3	(untitled)	1			522 <	2263	120	92.33	100	-10	134.83	128.91	144.92	21.42 +
	4	(untitled)	1			377	2263	120	80.00	17	441	6.60	0.16	0.07	0.02
Bf	1	(untitled)	1			798	1800	120	0.00	44	103	28.13	0.80	0.00	0.18
	2	(untitled)	1			1102	1800	120	0.00	61	47	28.99	1.57	0.00	0.48
C	1	(untitled)	2	769-2	G	537	2100	30	0.00	96	-6	113.42	98.88	179.27	20.37
	2	(untitled)	2	769-2	G	564 <	2200	30	0.00	96	-6	151.01	136.33	250.08	27.38 +
	3	(untitled)	2	769-2	G	330	2050	30	10.00	60	49	38.68	23.75	108.10	5.95
Cf	1	(untitled)	2			537	1965	120	22.00	27	229	17.70	0.34	0.00	0.05
	2	(untitled)	2			894 <	1965	120	65.38	100	-10	124.60	107.10	208.61	39.11 +
D	1	(untitled)	3	770-1	B	359	2050	38	2.00	52	72	31.35	27.23	80.24	4.93
	2	(untitled)	3	770-1	B	617 <	1850	38	0.00	100	-10	110.12	105.99	134.49	21.21 +
	3	(untitled)	3	770-1	B	722 <	2250	38	1.49	100	-10	92.54	88.57	100.58	19.91 +
Dc	1	(untitled)	3	770-1	A	933 <	2100	62	0.01	83	8	22.08	18.28	59.66	8.96 +
	2	(untitled)	3	770-1	A	740	2100	62	0.00	66	36	16.39	12.74	60.31	7.54
	3	(untitled)	3	770-1	A	750 <	2100	62	19.20	94	-4	38.82	35.31	94.01	11.65 +
	4	(untitled)	3	770-1	A	880 <	2100	62	13.54	89	1	25.98	22.62	74.18	9.67 +
Dcf	1	(untitled)	3			735	2050	120	20.00	36	151	5.44	0.49	0.11	0.10
	2	(untitled)	3			1158	2100	120	50.26	83	8	18.86	13.92	55.87	10.90
	3	(untitled)	3			740	2100	120	35.05	43	111	6.60	1.16	7.57	2.40
	4	(untitled)	3			738	2100	120	48.48	41	119	9.06	1.87	14.11	3.54
	5	(untitled)	3			880	2100	120	66.19	50	79	9.90	4.88	37.69	9.88
Df	1	(untitled)	3-2			1466 <	1900	120	58.41	150	-40	637.87	613.87	398.01	262.09
	2	(untitled)	3-2			862 <	2250	120	81.49	119	-25	339.85	315.85	318.38	84.04 +
Dxp	1	(untitled)	3-2	770-2	D	733	2050	101	7.00	42	114	4.66	1.16	5.28	1.49
	2	(untitled)	3-2	770-2	D	225	2050	101	59.00	13	597	3.93	0.28	1.30	0.10
Ec	1	(untitled)	4	770-3	F	673	2150	70	14.00	52	73	11.03	7.27	41.01	5.07
	2	(untitled)	4	770-3	F	1326 <	2263	70	1.69	100	-10	57.92	54.29	68.28	24.67 +
	3	(untitled)	4	770-3	F	1084	2263	70	0.00	80	13	10.69	7.18	26.26	4.79
	4	(untitled)	4	770-3	F	531	2250	70	30.00	39	129	15.59	12.14	78.95	7.01
Ecf	1	(untitled)	4			1050	2100	120	22.30	50	79	4.33	0.88	1.88	4.90
	2	(untitled)	4			981	2100	120	20.00	47	93	4.23	0.75	0.00	0.20
	3	(untitled)	4			1326 <	2263	120	43.32	82	10	12.83	9.31	37.71	8.45 +
	4	(untitled)	4			1647	2300	120	32.72	85	6	10.60	6.76	28.56	8.19

Ef	**1**	(untitled)	4			907 <	1900	120	66.27	107	-16	164.10	148.80	242.24	47.86 +
	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	1050	2050	100	16.00	61	48	6.28	2.39	9.96	5.16
	2	(untitled)	4-2	770-4	L	308	2050	100	37.00	18	404	4.26	0.23	0.51	2.34
F	**1**	(untitled)	5	771-1	B	101	2100	20	8.00	26	242	18.17	11.79	79.40	2.37
	2	(untitled)	5	771-1	B	60	2100	20	9.00	15	482	17.02	10.59	78.06	2.33
	3	(untitled)	5	771-1	B	82 <	2100	20	17.34	100	-10	776.46	769.92	314.94	17.99 +
Fc	**1**	(untitled)	5	771-1	A	1546 <	2263	80	0.00	100	-10	71.72	52.63	95.08	49.63 +
	2	(untitled)	5	771-1	A	1125	2263	80	9.56	76	18	28.15	9.43	46.80	11.36
	3	(untitled)	5	771-1	A	1069 <	2263	80	25.27	100	-10	93.58	74.16	219.44	38.38 +
Ff	**1**	(untitled)	5			159	1900	120	57.00	8	976	33.17	0.09	7.99	0.00
	2	(untitled)	5			83 <	1900	120	114.85	102	-12	2209.42	2176.38	581.40	52.35 +
G	**1**	(untitled)	2	769-2	F	377	2050	28	7.61	78	16	65.70	49.64	122.27	8.21
	2	(untitled)	2	769-2	F	164	2050	28	18.73	33	174	52.50	41.06	109.68	2.82
Gf	**1**	(untitled)	4			374	2050	120	90.02	18	393	3.12	0.20	0.43	2.34
	2	(untitled)	4			135	2050	120	90.11	7	1265	2.96	0.08	1.44	2.32
xA	**1**	(untitled)	10			1511	2263	120	24.92	67	34	19.01	1.79	4.11	10.06
	2	(untitled)	10			1236	2263	120	38.39	56	61	18.42	1.17	4.85	3.14
xB	**1**	(untitled)				1445	Unrestricted	120	1.00	0	Unrestricted	5.79	0.00	0.00	0.00
xC	**1**	(untitled)				521	1900	120	56.57	40	123	16.19	7.52	59.59	11.73
	2	(untitled)				292	1900	120	66.92	21	335	11.95	3.25	46.86	4.69
xD	**1**	(untitled)				732	Unrestricted	120	11.00	0	Unrestricted	9.13	0.00	0.00	0.00
	2	(untitled)				224	Unrestricted	120	68.00	0	Unrestricted	9.21	0.00	0.00	0.00
xE	**1**	(untitled)				1050	Unrestricted	120	8.00	0	Unrestricted	13.04	0.00	0.00	0.00
	2	(untitled)				308	Unrestricted	120	42.00	0	Unrestricted	13.04	0.00	0.00	0.00
xF	**1**	(untitled)				724	Unrestricted	120	6.00	0	Unrestricted	12.19	0.00	0.00	0.00
Cc1	**1**	(untitled)	2	769-2	E	272	2050	64	18.00	24	273	9.99	3.19	19.88	2.57
E1	**1**	(untitled)	4	770-3	G	313	2050	28	10.00	61	47	43.01	37.01	108.67	5.69
	2	(untitled)	4	770-3	G	537 <	2200	28	0.00	98	-8	129.95	123.95	191.18	22.32 +
Gf1	**1**	(untitled)	4			32	669	120	88.00	5	1793	5.67	1.97	35.27	0.26
Cc2	**2**	(untitled)	2	769-2	D	664	2150	66	1.16	55	62	18.99	11.73	62.67	7.34
	3	(untitled)	2	769-2	D	843	2050	66	12.00	73	24	22.40	15.09	79.41	14.16
	4	(untitled)	2	769-2	D	757 <	2150	66	25.66	100	-10	109.02	102.02	188.55	26.61 +
	5	(untitled)	2	769-2	D	550	2050	66	34.06	47	90	25.20	17.22	105.87	11.82
E2	**3**	(untitled)	4	770-3	H	374	2150	28	0.94	72	25	33.26	29.27	95.81	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	1083	2263	99	15.00	57	58	4.51	1.75	7.59	2.81
	3	(untitled)	TC771-6	TC777-1	A	1239	2263	99	22.00	65	38	4.76	1.99	7.47	3.23
	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	560	1925	84	0.00	40	124	18.27	7.26	35.31	6.61
	2	(untitled)	TC771-6	TC777-1	B	365 <	1966	84	64.75	100	-10	227.29	216.23	256.54	25.01 +
	3	(untitled)	TC771-6	TC777-1	B	284	1947	84	34.00	20	347	14.73	3.61	13.17	1.47
TC35	**1**	(untitled)	TC771-6	TC777-1	A	428	1900	99	15.00	27	236	4.23	1.33	10.24	1.68
TC36	**1**	(untitled)	TC771-6			230	1800	120	0.00	13	604	3.17	0.15	0.00	0.01
TC37	**1**	(untitled)	TC771-6	TC777-2	J	41	1850	105	105.00	3	3487	4.09	0.90	11.69	0.16
TC38	**1**	(untitled)	TC771-6			41	275	120	50.00	15	505	5.36	3.83	54.26	2.43
TC39	**2**	(untitled)	TC771-6			1084	2263	120	34.00	48	88	3.27	0.73	0.00	0.22
	3	(untitled)	TC771-6			1239	2263	120	41.00	55	64	3.36	0.96	0.00	0.33

TC40	2	(untitled)	TC771-6			1125	Unrestricted	120	18.00	0	Unrestricted	4.23	0.00	0.00	0.00
	3	(untitled)	TC771-6			1239	Unrestricted	120	26.00	0	Unrestricted	4.02	0.00	0.00	0.00
TC41	1	(untitled)	TC771-6	TC777-1	D	94	1850	7	0.00	76	18	100.56	96.62	126.80	4.06
	2	(untitled)	TC771-6	TC777-1	D	95	1850	7	0.00	77	17	102.21	98.25	127.91	4.15
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			813	1300	120	18.00	63	44	18.34	2.30	0.01	0.52
48	1	(untitled)	2			1605 <	1965	120	32.60	112	-20	217.33	210.71	282.62	114.30
49	1	(untitled)	TC771-6			560	1900	120	0.00	29	205	3.54	0.40	0.00	0.06
	2	(untitled)	TC771-6			753 <	1900	120	66.23	88	2	48.03	44.88	91.22	44.13 +
50	1	(untitled)	1			1968 <	1900	120	0.00	104	-13	87.09	81.31	63.70	44.45 +
51	1	(untitled)	4-2			943 <	1900	120	104.71	389	-77	1346.36	1341.86	875.01	358.60

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	68	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	5	771-1	C	0	11000	68	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	

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	6741.54	1554.02	4.34	1378.09	19568.89	1028.48	0.00	20597.37
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	6741.54	1554.02	4.34	1378.09	19568.89	1028.48	0.00	20597.37

- *< = 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***