TRANSYT 15

Filename: M62 JN 28 CRF Scheme_Mar 20- Scenario 4b-PM - Mitigation - Revised LCC Scheme.t15
Path: Z:\Projects\10127ITM Capitol Park, Leeds F2 (F1A)\Tech\Transyt\TRANSYT - AGREED HE_LCC BASE MODEL (MARCH 2020)\Post-Submission Work\2033 Sensitivity Test
Report generation date: 20/07/2021 00:04:18

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

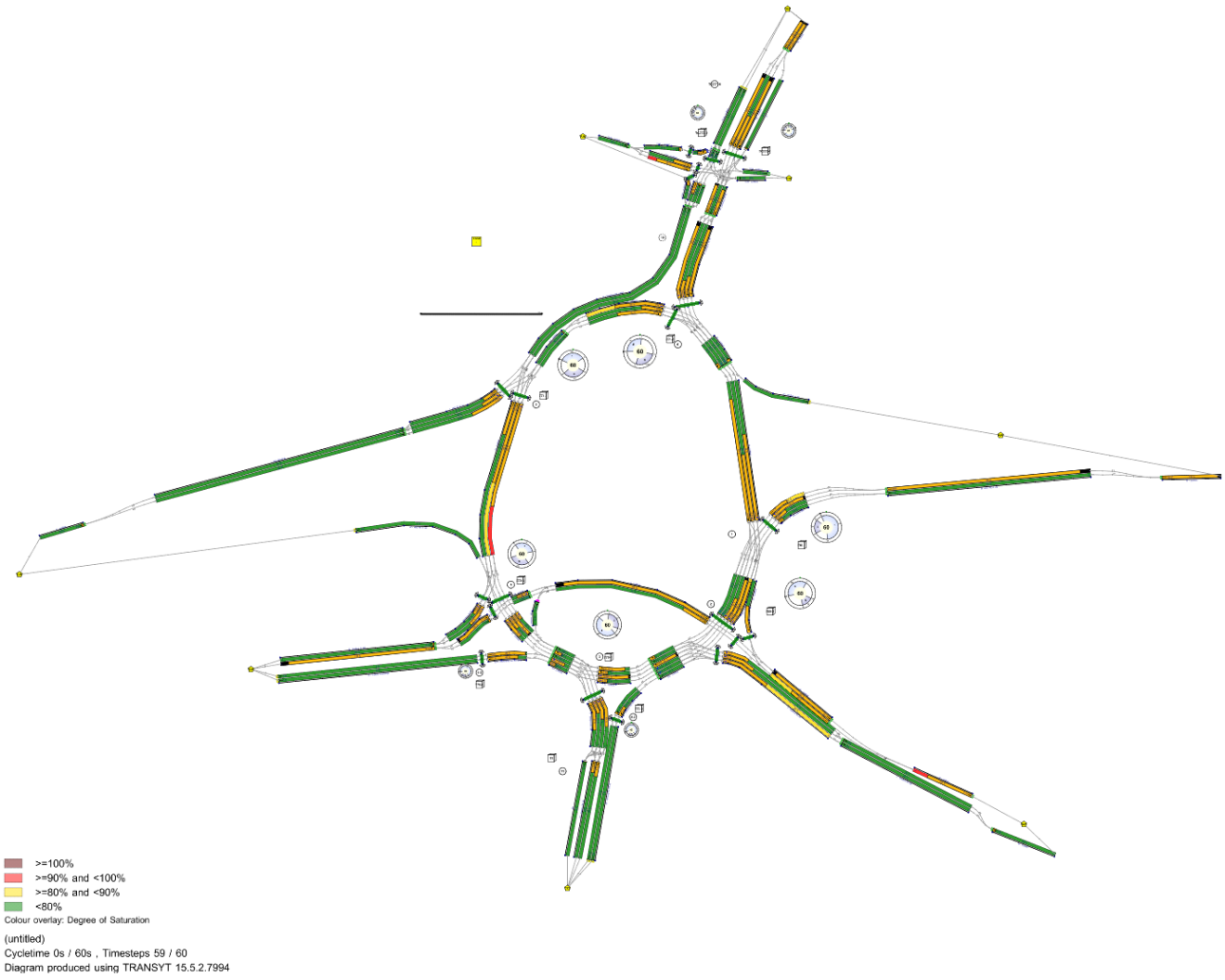
Units

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



A2 - 2033 Base + Committed + Cumulative PM - Mitigation + LCC Revsied Scheme
D2 - 2033 Base + Committed + Cumulative PM - Mitigation + Revised LCC Scheme*

Summary

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Traffic Stream Data	Arm Bf - Traffic Stream 1	Arm Bf - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Bf - Traffic Stream 2	Arm Bf - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Ff - Traffic Stream 1	Arm Ff - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Ff - Traffic Stream 2	Arm Ff - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm xA - Traffic Stream 1	Arm xA - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm xA - Traffic Stream 2	Arm xA - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm TC38 - Traffic Stream 1	Traffic Stream 1: CTM uses a whole number of cells. CTM is using the length adjusted by 30%.
Warning	Pedestrian Crossing Data	Pedestrian crossing 18	Pedestrian Crossing 18: Traffic Node ID 771-2 is missing.
Warning	Pedestrian Crossing Data	Pedestrian crossing 19	Pedestrian Crossing 19: Traffic Node ID 771-2 is missing.
Warning	Traffic Stream Signals	Arm TC5 - Traffic Stream 4 - Signals (TC777-1, C)	Traffic Stream 4 controlling phase C never runs in the current stage sequence.
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 TC5 - Traffic Stream 4 - Signals (TC777-1, C)	Traffic Stream 4 controlling phase C never runs in stage sequence 1.
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
2	20/07/2021 00:01:22	20/07/2021 00:01:34	16:30	60	12468.23	807.15	123.53	49/2	19	12	TC5/4	49/2	TC5

Analysis Set Details

Name	Description	Demand set	Include in report	Locked
2033 Base + Committed + Cumulative PM - Mitigation + LCC Revsied Scheme		D2	✓	

Demand Set Details

Name	Description	Composite	Demand sets	Start time (HH:mm)	Locked
2033 Base + Committed + Cumulative PM - Mitigation + Revised LCC Scheme				16:30	

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)
60		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		✓	769-1, 769-2, 770-1, 770-3, 771-1, 771-2, TC777-1, TC777-2, 11			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
53			TC771-6
54			3-2

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	✓	70.69	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	73.01	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	74.71	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	76.41	✓	Directly entered	2050		2050	✓		Normal	
Ac	1	(untitled)	M62E	✓	89.10	✓	Directly entered	2263		2263	✓		Normal	
	2	(untitled)	Wake	✓	86.29	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Dews/Brad	✓	82.56	✓	Directly entered	2263		2263	✓		Normal	
Acf	1	(untitled)		✓	71.57	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	71.88	✓	Directly entered	2263		2263			Normal	
Af	1	(untitled)	M62E/Wake	✓	55.35	✓	Directly entered	2050		2050			Normal	
	2	(untitled)	Dews	✓	55.14	✓	Directly entered	2050		2050			Normal	
	3	(untitled)	Brad/M62W	✓	55.30	✓	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	✓	133.42	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Dews	✓	132.05	✓	Directly entered	2050		2263	✓		Normal	
	3	(untitled)	Brad/M62W	✓	130.69	✓	Directly entered	2050		2050	✓		Normal	
Bcf	1	(untitled)		✓	68.43	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	68.75	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	67.45	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	67.45	✓	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	✓	56.07	✓	Directly entered	2250		2250	✓		Normal	
	4	(untitled)	Leeds/M62/Wake	✓	59.77	✓	Directly entered	2250		2250	✓		Normal	
Dc	**1**	(untitled)	Brad	✓	50.27	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Brad/M62W	✓	48.34	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Leeds	✓	46.42	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)	Leeds/M62E	✓	44.49	✓	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)		✓	66.37	✓	Directly entered	2100		2100			Normal	
	4	(untitled)		✓	66.58	✓	Directly entered	2100		2100			Normal	
	5	(untitled)		✓	66.90	✓	Directly entered	2100		2100			Normal	
	6	(untitled)		✓	67.13	✓	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	✓	45.11	✓	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)		✓	47.50	✓	Directly entered	2300		2300			Normal	
	5	(untitled)		✓	48.55	✓	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	
	1	(untitled)	Leeds	✓	180.19	✓	Directly entered	2263		2263	✓		Normal	

Fc	**2**	(untitled)	Leeds	✓	178.43	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	M62E/Dews	✓	177.26	✓	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)		✓	231.18	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	232.02	✓	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)		✓	47.81							✓	Normal	
Cc2	**2**	(untitled)	Dews	✓	90.61	✓	Directly entered	2150		2100	✓		Normal	
	3	(untitled)	Brad/M62W	✓	89.36	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Dews/Brad	✓	90.73	✓	Directly entered	2150		2100	✓		Normal	
	5	(untitled)	Leeds	✓	88.39	✓	Directly entered	2050		2050	✓		Normal	
	6	(untitled)	Leeds	✓	87.97	✓	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	
53	**1**				91.00	✓	Sum of lanes	1800			✓		Normal	
54	**1**				200.00	✓	Sum of lanes	1800			✓		Normal	

Lanes

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

Bf	**1**	**1**	(untitled)												1800
	2	**1**	(untitled)												1800
C	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
Cf	**1**	**2**	(untitled)												1965
	2	**1**	(untitled)												1965
D	**1**	**1**	(untitled)												
	2	**2**	(untitled)												
	3	**3**	(untitled)												
	4	**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)												
	6	**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)												
	5	**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)											
	6	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
53	1	1	(untitled)											1800
54	1	1	(untitled)											1800

Modelling

Arm	Traffic Stream	Traffic model	Stop weighting multiplier (%)	Delay weighting multiplier (%)	Assignment Cost Weighting (%)	Exclude from results calculation	Max queue storage (PCU)	Has queue limit	Queue limit (PCU)	Excess queue penalty (£)	Has degree of saturation limit	Degree of saturation limit (%)	Excess degree of saturation penalty (£)	Low degree o saturatio penalty (£)
A	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ac	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Acf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Af	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							

B	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Bc	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Bcf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Bf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
C	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Cf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
D	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	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							
	6	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							
	5	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							
	6	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							
53	1	NetworkDefault	100	100	100		0.00							
54	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	✓	60

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	955	955
	2	417	417
	3	651	651
	4	962	962
Ac	1	885	885
	2	291	291
	3	556	556
Acf	1	1176	1176
	2	556	556
Af	1	1372	1372
	2	651	651
	3	962	962
B	1	113	113
	2	391	391
	3	489	489
	4	427	427
Bc	1	795	795
	2	935	935
	3	1146	1146
Bcf	1	1840	1840
	2	795	795
	3	935	935
	4	1146	1146
Bf	1	504	504
	2	916	916
C	1	450	450
	2	344	344
	3	288	288
Cf	1	450	450
	2	632	632
D	1	413	413
	2	204	204
	3	323	323
	4	428	428
Dc	1	567	567
	2	1170	1170
	3	250	250
	4	565	565
Dcf	1	1154	1154
	2	885	885
	3	567	567
	4	1170	1170
	5	250	250
	6	565	565
Df	1	605	605
	2	751	751

Dxp	**1**	1154	1154
	2	885	885
Ec	**1**	733	733
	2	454	454
	3	867	867
	4	402	402
Ecf	**1**	667	667
	2	1483	1483
	3	454	454
	4	867	867
	5	449	449
Ef	**1**	859	859
	2	627	627
Exp	**1**	667	667
	2	750	750
F	**1**	233	233
	2	296	296
	3	462	462
Fc	**1**	620	620
	2	899	899
	3	949	949
Ff	**1**	529	529
	2	462	462
G	**1**	359	359
	2	316	316
Gf	**1**	335	335
	2	292	292
xA	**1**	788	788
	2	939	939
xB	**1**	1840	1840
xC	**1**	755	755
	2	707	707
xD	**1**	1154	1154
	2	885	885
xE	**1**	667	667
	2	750	750
xF	**1**	847	847
Cc1	**1**	788	788
E1	**1**	312	312
	2	547	547
Gf1	**1**	47	47
Cc2	**2**	1055	1055
	3	826	826
	4	1101	1101
	5	99	99
	6	427	427
E2	**3**	335	335
	4	292	292
TC5	**2**	595	595
	3	939	939
	4	0	0
TC9	**1**	1156	1156
	2	611	611
	3	742	742
TC35	**1**	193	193
TC36	**1**	567	567
TC37	**1**	110	110
TC38	**1**	110	110

TC39	2	595	595
	3	939	939
TC40	2	705	705
	3	939	939
TC41	1	202	202
	2	255	255
TC42	1	0	0
TC43	1	0	0
47	1	1462	1462
48	1	1082	1082
49	1	1174	1174
	2	1353	1353
50	1	1420	1420
51	1	991	991
53	1	18	18
54	1	12	12

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	
	4	770-1	B	
Dc	1	770-1	A	
	2	770-1	A	
	3	770-1	A	
	4	770-1	A	
Df	1	11	B	
	2	11	B	
Dxp	1	770-2	D	
	2	770-2	D	
Ec	1	770-3	F	
	2	770-3	F	
	3	770-3	F	
	4	770-3	F	
Exp	1	770-4	L	
	2	770-4	L	
F	1	771-1	B	
	2	771-1	B	
	3	771-1	B	
	1	771-1	A	

Fc	**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	
	6	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	
53	**1**	TC777-1	J	
54	**1**	11	A	

Entry Sources

Arm	Traffic Stream	Cruise time for Normal Traffic (s)	Cruise speed for Normal Traffic (kph)
Df	**1**	24.00	30.00
	2	24.00	30.00
Ef	**1**	15.31	30.00
	2	15.31	30.00
TC36	**1**	3.03	30.00
TC42	**1**	2.80	30.00
48	**1**	6.61	30.00
49	**1**	3.15	30.00
	2	3.15	30.00
50	**1**	5.78	30.00
51	**1**	4.50	30.00
54	**1**	24.00	30.00

Sources

Arm	Traffic Stream	Source	Source traffic stream	Destination traffic stream	Cruise time for Normal Traffic (s)	Cruise speed for Normal Traffic (kph)	Auto turning radius	Traffic turn style	Turning radius (m)
A	**1**	**1**	Af/1	A/1	5.30	48.00	✓	Straight	Straight Movement
	2	**1**	Af/1	A/2	5.48	48.00	✓	Straight	Straight Movement
	3	**1**	Af/2	A/3	5.60	48.00	✓	Straight	Straight Movement
	4	**1**	Af/3	A/4	5.73	48.00	✓	Straight	Straight Movement
Ac	**1**	**1**	Acf/1	Ac/1	6.68	48.00	✓	Offside	48.59
	2	**1**	Acf/1	Ac/2	8.88	35.00	✓	Offside	46.08
	3	**1**	Acf/2	Ac/3	6.19	48.00	✓	Offside	42.76

Acf	**1**	**1**	F/2	Acf/1	5.37	48.00	✓	Straight	Straight Movement
	2	**1**	F/3	Acf/2	7.39	35.00	✓	Straight	Straight Movement
Af	**1**	**1**	TC42/1	Af/1	6.64	30.00	✓	Nearside	10.60
	2	**1**	TC42/1	Af/2	6.62	30.00	✓	Nearside	10.60
	3	**1**	TC42/1	Af/3	6.64	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	10.01	48.00	✓	Offside	37.26
	2	**1**	Bcf/3	Bc/2	9.90	48.00	✓	Offside	33.95
	3	**1**	Bcf/4	Bc/3	9.80	48.00	✓	Offside	30.63
Bcf	**1**	**1**	A/1	Bcf/1	5.13	48.00	✓	Nearside	75.08
	2	**1**	A/2	Bcf/2	7.28	34.00	✓	Nearside	78.40
	3	**1**	A/3	Bcf/3	7.14	34.00	✓	Nearside	81.71
	4	**1**	A/4	Bcf/4	7.14	34.00	✓	Nearside	85.02
Bf	**1**	**1**	50/1	Bf/1	27.34	30.00	✓	Straight	Straight Movement
	2	**1**	50/1	Bf/2	27.41	30.00	✓	Straight	Straight Movement
C	**1**	**1**	Cf/1	C/1	14.54	30.00	✓	Offside	59.30
	2	**1**	Cf/2	C/2	14.68	30.00	✓	Offside	55.98
	3	**1**	Cf/2	C/3	14.92	30.00	✓	Offside	53.27
Cf	**1**	**1**	48/1	Cf/1	17.35	30.00	✓	Straight	Straight Movement
	2	**1**	48/1	Cf/2	17.50	30.00	✓	Straight	Straight Movement
D	**1**	**1**	Df/1	D/1	4.13	48.00	✓	Straight	Straight Movement
	2	**1**	Df/1	D/2	4.13	48.00	✓	Straight	Straight Movement
	3	**1**	Df/2	D/3	4.21	48.00	✓	Straight	Straight Movement
	4	**1**	Df/2	D/4	4.48	48.00	✓	Straight	Straight Movement
Dc	**1**	**1**	Dcf/3	Dc/1	3.77	48.00	✓	Offside	52.98
	2	**1**	Dcf/4	Dc/2	3.63	48.00	✓	Offside	49.67
	3	**1**	Dcf/5	Dc/3	3.48	48.00	✓	Offside	46.35
	4	**1**	Dcf/6	Dc/4	3.34	48.00	✓	Offside	43.04
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**	Cc2/4	Dcf/3	4.98	48.00	✓	Straight	Straight Movement
	4	**1**	C/2	Dcf/4	4.99	48.00	✓	Nearside	58.86
	5	**1**	Cc2/5	Dcf/5	5.02	48.00	✓	Straight	Straight Movement
	6	**1**	Cc2/6	Dcf/6	5.04	48.00	✓	Offside	96.74
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/5	Ec/4	3.38	48.00	✓	Offside	66.48
	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

Ecf	**3**	**1**	Dc/3	Ecf/3	3.52	48.00	✓	Offside	69.49
	4	**1**	Dc/4	Ecf/4	3.56	48.00	✓	Offside	66.17
	5	**1**	Dc/4	Ecf/5	3.64	48.00	✓	Offside	62.86
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	18.53	35.00	✓	Straight	Straight Movement
	2	**1**	Ec/3	Fc/2	18.35	35.00	✓	Straight	Straight Movement
	3	**1**	Ec/4	Fc/3	18.23	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	17.34	48.00	✓	Straight	Straight Movement
	2	**1**	Fc/2	xA/2	17.40	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/5	Gf1/1	3.59	48.00	✓	Offside	21.77
Cc2	**2**	**1**	B/1	Cc2/2	8.16	40.00	✓	Straight	Straight Movement
	3	**1**	B/3	Cc2/3	8.04	40.00	✓	Straight	Straight Movement
	4	**1**	B/2	Cc2/4	8.17	40.00	✓	Straight	Straight Movement
	5	**1**	B/3	Cc2/5	7.96	40.00	✓	Straight	Straight Movement
	6	**1**	B/4	Cc2/6	7.92	40.00	✓	Straight	Straight Movement
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
53	1	1	49/1	53/1	10.92	30.00	✓	Straight	Straight Movement
Acf	1	2	Fc/3	Acf/1	5.37	48.00	✓	Straight	Straight Movement
	2	2	Fc/3	Acf/2	7.39	35.00	✓	Straight	Straight Movement
Af	1	2	TC9/1	Af/1	6.64	30.00	✓	Straight	Straight Movement
	2	2	TC9/2	Af/2	6.62	30.00	✓	Straight	Straight Movement
	3	2	TC9/3	Af/3	6.64	30.00	✓	Straight	Straight Movement
Bcf	1	2	Ac/1	Bcf/1	4.32	57.00	✓	Offside	77.01
	2	2	Ac/2	Bcf/2	4.34	57.00	✓	Offside	73.69
	3	2	Ac/3	Bcf/3	4.26	57.00	✓	Offside	70.38
	4	2	Ac/3	Bcf/4	4.26	57.00	✓	Offside	69.61
D	1	2	54/1	D/1	4.13	48.00	✓	Straight	Straight Movement
	2	2	54/1	D/2	4.13	48.00	✓	Straight	Straight Movement
	3	2	54/1	D/3	4.21	48.00	✓	Straight	Straight Movement
	4	2	54/1	D/4	4.48	48.00	✓	Straight	Straight Movement
Dcf	1	2	C/1	Dcf/1	4.95	48.00	✓	Nearside	55.54
	2	2	C/1	Dcf/2	4.94	48.00	✓	Nearside	55.54
	3	2	C/1	Dcf/3	4.98	48.00	✓	Nearside	55.54
	4	2	Cc2/3	Dcf/4	4.99	48.00	✓	Straight	Straight Movement
	5	2	C/3	Dcf/5	5.02	48.00	✓	Nearside	62.17
	6	2	C/3	Dcf/6	5.04	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	3.56	48.00	✓	Nearside	49.99
	5	2	D/4	Ecf/5	3.64	48.00	✓	Nearside	53.30
Fc	1	2	E1/1	Fc/1	20.27	32.00	✓	Nearside	58.94
	2	2	E1/1	Fc/2	20.07	32.00	✓	Nearside	60.85
	3	2	E1/2	Fc/3	19.94	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	17.34	48.00	✓	Straight	Straight Movement
	2	2	Fc/1	xA/2	17.40	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/1	Cc2/2	10.87	30.00	✓	Straight	Straight Movement
	3	2	Bc/3	Cc2/3	10.72	30.00	✓	Straight	Straight Movement
	4	2	Bc/3	Cc2/4	10.89	30.00	✓	Straight	Straight Movement
	5	2	Bc/3	Cc2/5	10.61	30.00	✓	Offside	98.66
	6	2	Bc/3	Cc2/6	10.56	30.00	✓	Offside	95.35
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	5.37	48.00	✓	Straight	Straight Movement
Af	1	3	TC41/1	Af/1	6.64	30.00	✓	Offside	6.19
	2	3	TC41/2	Af/2	6.62	30.00	✓	Offside	6.00
	3	3	TC41/2	Af/3	6.64	30.00	✓	Offside	6.00
Bcf	2	3	Ac/3	Bcf/2	4.34	57.00	✓	Offside	70.38
xA	2	3	F/2	xA/2	17.40	48.00	✓	Straight	Straight Movement
Cc2	2	3	Bc/2	Cc2/2	10.87	30.00	✓	Straight	Straight Movement
Af	1	4	53/1	Af/1	6.64	30.00	✓	Straight	Straight Movement
	2	4	53/1	Af/2	6.62	30.00	✓	Straight	Straight Movement
	3	4	53/1	Af/3	6.64	30.00	✓	Straight	Straight Movement

Give Way Data

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

Give Way Data - All Movements - Conflicts

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

Pedestrian Crossings

Pedestrian Crossings

Crossing	Name	Description	Traffic node	Allow walk on red	Crossing type	Length (m)	Cruise time (seconds)	Cruise speed (kph)
1	(untitled)		3-2		Nearside	3.00	2.00	5.40
2	(untitled)		3		Nearside	3.00	2.00	5.40
3	(untitled)		4-2		Nearside	3.00	2.00	5.40
4	(untitled)		4		Nearside	3.00	2.00	5.40
5	(untitled)		4		Nearside	3.00	2.00	5.40
6	(untitled)		4		Nearside	3.00	2.00	5.40
7	(untitled)		5		Nearside	3.00	2.00	5.40
8	(untitled)		1		Nearside	3.00	2.00	5.40
9	(untitled)		2		Nearside	3.00	2.00	5.40
10	(untitled)		2		Nearside	3.00	2.00	5.40
11	(untitled)				Nearside	3.00	2.00	5.40
12	(untitled)		2		Nearside	3.00	2.00	5.40
13	(untitled)				Farside	3.00	2.00	5.40
14	(untitled)				Farside	3.00	2.00	5.40
15	(untitled)				Nearside	3.00	2.00	5.40
16	(untitled)				Nearside	3.00	2.00	5.40
17	(untitled)				Nearside	3.00	2.00	5.40
18	(untitled)		771-2		Farside	3.00	2.00	5.40
19	(untitled)		771-2		Farside	3.00	2.00	5.40
20	(untitled)				Farside	3.00	2.00	5.40

Pedestrian Crossings - Signals

Crossing	Controller stream	Phase	Second phase enabled
1	770-2	E	
2	770-1	C	
3	770-4	M	
4	770-3	J	
5	770-3	I	
6	770-3	K	
7	771-1	C	
8	769-1	C	
9	769-2	J	
10	769-2	K	
11	769-2	H	
12	769-2	I	
13	TC777-1	I	
14	TC777-1	F	
15	TC777-1	G	
16	TC777-1	H	
17	TC777-2	K	
18	771-2	F	
19	771-2	A	
20	771-1	D	

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	3	53	411	13	446	60	434	0
	B28	19	0	103	178	513	13	256	0
	C28	381	47	0	313	100	21	506	0
	D28	5	378	358	0	17	60	173	0
	E28	477	627	93	114	1	10	164	0
	F28	162	40	79	88	88	0	110	0
	G28	793	317	995	141	252	29	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, 54/1	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
	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	
	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	
	81		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
	82		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	
	83		G28	B28	49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Fixed	
	84		G28	B28	49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Disabled	
	85		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
	86		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	
	87		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Fixed	
	88		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	

89		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
90		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	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	
100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Fixed	
102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
104	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Fixed	
107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	
109	I3	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
111		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
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	
116		G28	G28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
117		G28	F28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Fixed	
118		G28	G28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	
124		H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	
128		F28	F28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
129		F28	H28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
130		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
131		G28	G28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
132		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
133		F28	H28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	
138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	
140		B28	G28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
141		B28	H28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	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		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	
145		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	
147		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
148		G28	C28	49/1, 53/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
149		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	
150		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	
151		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	
152		C28	G28	54/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Fixed	
153		C28	F28	54/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Fixed	
154		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	
155		C28	H28	54/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
156		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
157		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
158		F28	D28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
159		F28	E28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
160		F28	E28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
162		B28	F28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
164		C28	A28	54/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	
166		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	
168		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	
170		C28	B28	54/1, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Fixed	
171		G28	H28	49/1, TC9/1, TC43/1	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	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	

1	198		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, xB/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	Disabled	
	236		E28	H28	Ef/1, E1/1, Fc/1, xA/2, TC5/4, TC43/1	Normal	
	255	I3	C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	
	291		C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	
	294		C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	
	295		C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	
	296		D28	G28	51/1, Ff/1, F/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
	297		D28	H28	51/1, Ff/1, F/2, xA/2, TC5/4, TC43/1	Normal	
	299		A28	G28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	
	300		A28	H28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
	301		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	
	302		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	
	312		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
	313		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
	314		B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
	323		B28	D28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
	324		B28	E28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	343		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Disabled	
	344		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	
	345		B28	E28	48/1, Cf/1, C/1, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	
	356		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	
	357		A28	F28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
	358		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	
	359		A28	H28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
	406		G28	A28	49/1, 53/1, Af/1, A/1, Bcf/1, xB/1	Fixed	
	410		C28	E28	54/1, D/1, Ecf/1, Exp/1, xE/1	Fixed	
	411		C28	D28	54/1, D/1, Ecf/2, Ec/1, xF/1	Fixed	
	412		C28	E28	54/1, D/1, Ecf/2, Exp/2, xE/2	Disabled	
	413		C28	G28	54/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Disabled	
	417		C28	G28	54/1, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Disabled	
	418		C28	H28	54/1, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	
	419		C28	A28	54/1, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Disabled	
	423		C28	B28	54/1, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Disabled	
	424		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	
	425		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	
	432		G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	
	433		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	
	436		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	
	437		G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
	438		G28	C28	49/1, 53/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	
	439		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	
	440		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	441		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	442		C28	C28	54/1, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	443		C28	C28	54/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	444		C28	C28	54/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	445		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	
	446		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	
	447		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	
	448		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	
	449		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	
	450		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	451		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Disabled	
	465		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
	466		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	467		G28	D28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	

	468		G28	E28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Disabled	
	469		A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
	470		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	471		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	472		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	
	473		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	
	474		G28	C28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	
	475		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	476		G28	C28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	
	477		G28	E28	49/1, 53/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	
	478		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	479		C28	C28	54/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	480		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	481		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	482		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	
	483		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	484		H28	C28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	485		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	
	486		F28	C28	TC36/1, TC41/2, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	
	487		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	488		C28	C28	54/1, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	489		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	
	490		H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	
	491		F28	C28	TC36/1, TC41/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	

Signal Timings

Network Default: 60s cycle time; 60 steps

Controller Stream 11

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
11	(untitled)		1	NetworkDefault	60

Controller Stream 11 - Properties

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

Controller Stream 11 - Optimisation

Controller Stream	Allow offset optimisation	Allow green split optimisation	Optimisation level	Auto redistribute	Enable stage constraint
11	✓	✓	Offsets And Green Splits		

Phases

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

Library Stages

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

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
11	**1**	(untitled)	Single	1, 2	42, 30

Intergreen Matrix for Controller Stream 11

		To	
		A	B
From	A		5
	B	5	

Banned Stage transitions for Controller Stream 11

		To	
		1	2
From	1		
	2		

Interstage Matrix for Controller Stream 11

		To	
		1	2
From	1	0	5
	2	5	0

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
11	1	✓	1	A	35	42	7	1	7
	2	✓	2	B	47	30	43	1	7

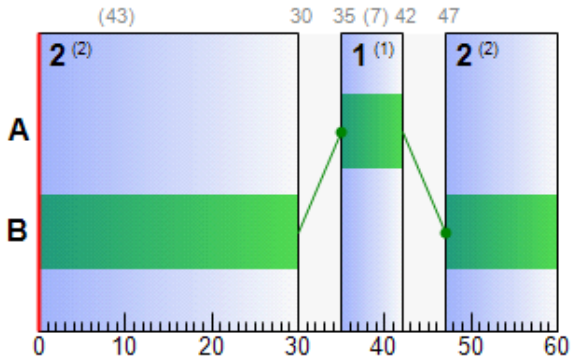
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
11	A	1	✓	35	42	7
	B	1	✓	47	30	43

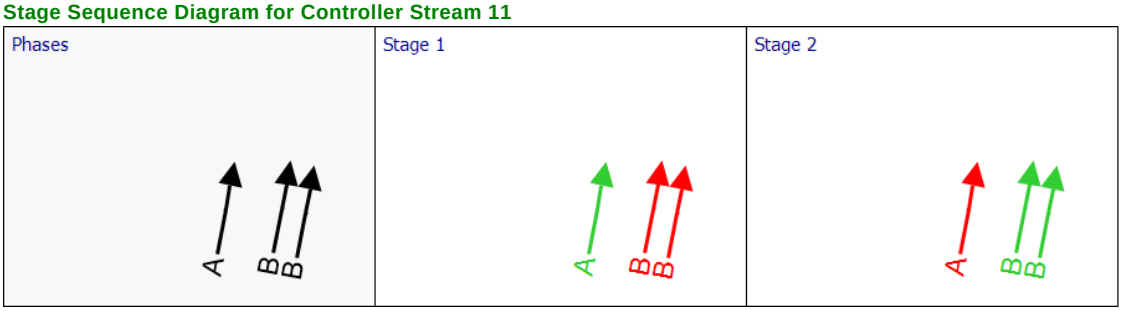
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
Df	1	3-2	11	B	47	30	43
Df	2	3-2	11	B	47	30	43
54	1	3-2	11	A	35	42	7

Phase Timings Diagram for Controller Stream 11



Stage Sequence Diagram for Controller Stream 11



Controller Stream 769-1

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
769-1	(untitled)		1	NetworkDefault	60

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	✓	✓	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)
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, C	1
	2	B	1

Losing / Gaining Phase Delays

Controller Stream	Delay	Type	Phase	From stage	To stage	Relative delay
769-1	1	Losing	A	1	2	4

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
769-1	1	(untitled)	Single	1, 2	29, 51

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	11
	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,C	56	29	33	1	7
	2	✓	2	B	40	51	11	1	7

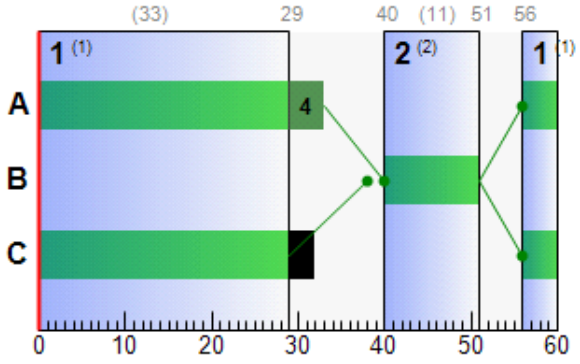
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
769-1	A	1	✓	56	33	37
	B	1	✓	40	51	11
	C	1	✓	56	29	33

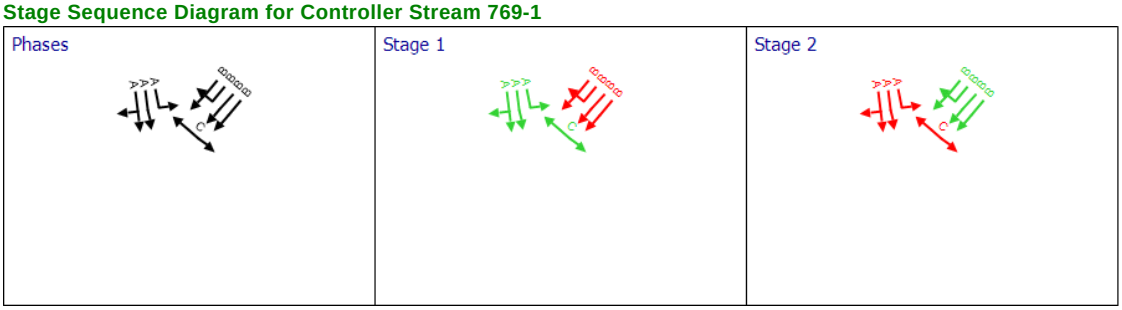
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
B	1	1	769-1	B	40	51	11
B	2	1	769-1	B	40	51	11
B	3	1	769-1	B	40	51	11
B	4	1	769-1	B	40	51	11
Bc	1	1	769-1	A	56	33	37
Bc	2	1	769-1	A	56	33	37
Bc	3	1	769-1	A	56	33	37

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	60

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	✓	✓	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)
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)	12	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	7	
	4	Losing	E	4	5	8	
	5	Losing	F	5	4	5	
	6	Losing	G	5	4	6	
	7	Losing	K	5	4	7	
	8	Losing	G	6	4	8	
	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	6	
	14	Losing	K	6	4	7	
	15	Gaining	G	4	5	0	13
	16	Gaining	F	4	5	0	12
	17	Gaining	D	5	4	0	11
	18	Gaining	E	5	4	1	15
	19	Gaining	J	4	5	0	12
	20	Losing	J	5	4	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
769-2	1	(untitled)	Single		4, 5	5, 28		
	2	(untitled)	Single		4, 6, 5	0, 16, 32		
	3	(untitled)	Single		4, 5, 6	0, 29, 38		
	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	14							
	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	14	13
	5	15	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	43	5	22	1	1
	2	✓	5	F,G,J,K	19	28	9	1	9

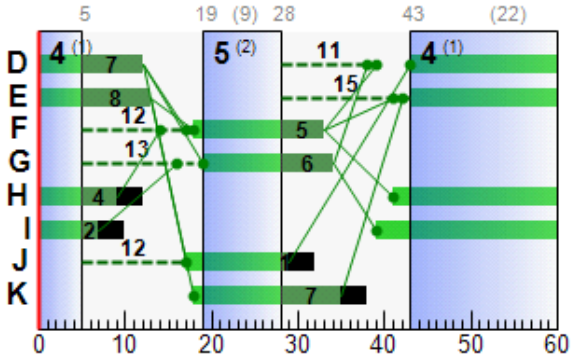
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
769-2	D	1	✓	43	12	29
	E	1	✓	43	13	30
	F	1	✓	18	33	15
	G	1	✓	19	34	15
	H	1	✓	41	9	28
	I	1	✓	39	7	28
	J	1	✓	17	29	12
	K	1	✓	18	35	17

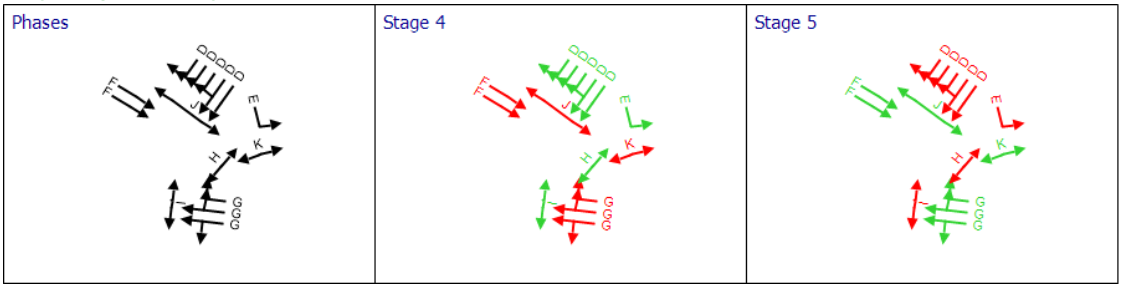
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
C	1	2	769-2	G	19	34	15
C	2	2	769-2	G	19	34	15
C	3	2	769-2	G	19	34	15
G	1	2	769-2	F	18	33	15
G	2	2	769-2	F	18	33	15
Cc1	1	2	769-2	E	43	13	30
Cc2	2	2	769-2	D	43	12	29
Cc2	3	2	769-2	D	43	12	29
Cc2	4	2	769-2	D	43	12	29
Cc2	5	2	769-2	D	43	12	29
Cc2	6	2	769-2	D	43	12	29

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	60

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)	7	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	Stage IDs	Stage ends
770-1	1	(untitled)	Single	1, 2	52, 18

Intergreen Matrix for Controller Stream 770-1

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

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	9
	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	23	52	29	1	7
	2	✓	2	B	1	18	17	1	7

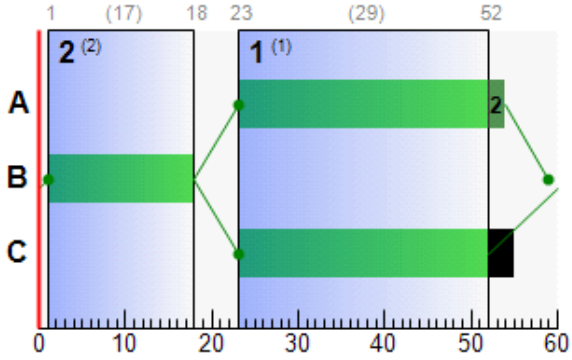
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-1	A	1	✓	23	54	31
	B	1	✓	1	18	17
	C	1	✓	23	52	29

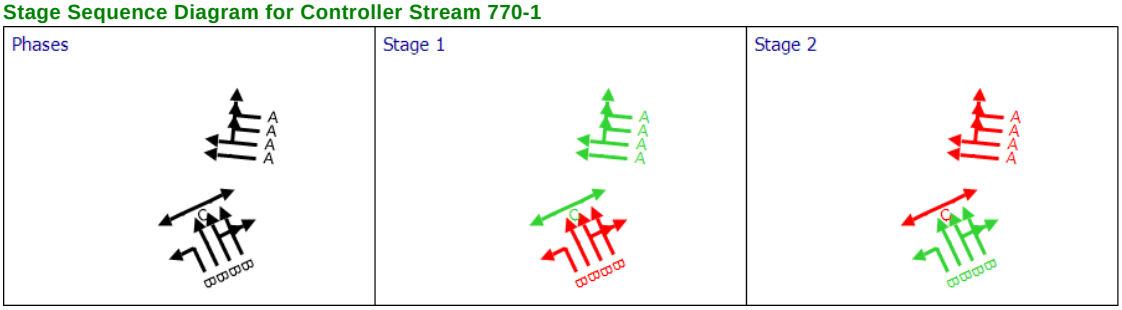
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
D	1	3	770-1	B	1	18	17
D	2	3	770-1	B	1	18	17
D	3	3	770-1	B	1	18	17
D	4	3	770-1	B	1	18	17
Dc	1	3	770-1	A	23	54	31
Dc	2	3	770-1	A	23	54	31
Dc	3	3	770-1	A	23	54	31
Dc	4	3	770-1	A	23	54	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	60

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

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	23, 35

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	42	23	41	1	7
	2	✓	5	E	28	35	7	1	5

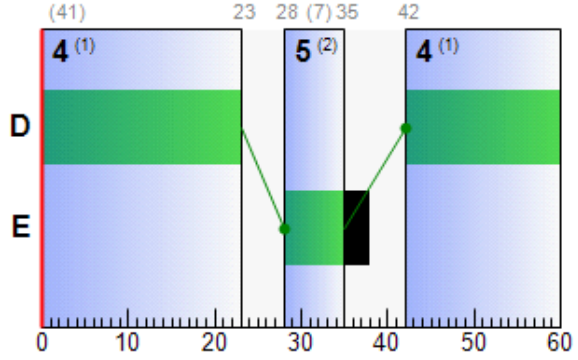
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-2	D	1	✓	42	23	41
	E	1	✓	28	35	7

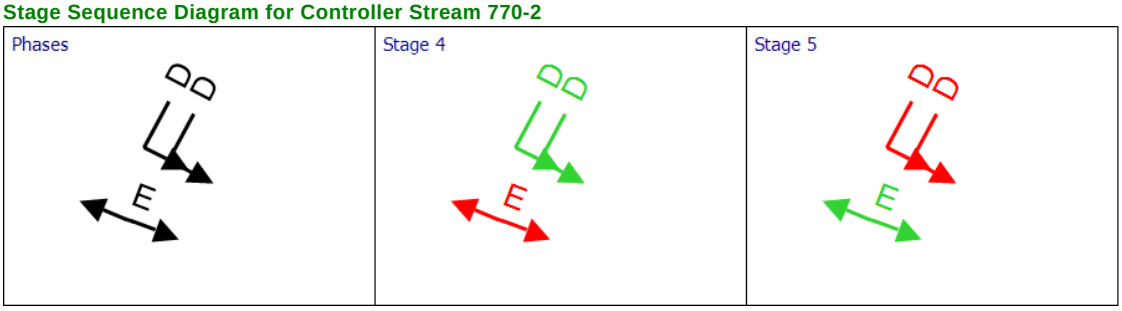
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
Dxp	1	3-2	770-2	D	42	23	41
Dxp	2	3-2	770-2	D	42	23	41

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	60

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	Stage IDs	Stage ends
770-3	1	(untitled)	Single	7, 9	13, 42

Intergreen Matrix for Controller Stream 770-3

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

Banned Stage transitions for Controller Stream 770-3

		To		
		7	8	9
From	7			
	8			
	9			

Interstage Matrix for Controller Stream 770-3

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

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
770-3	1	✓	7	F,I,J	54	13	19	1	2
	2	✓	9	G,H	24	42	18	1	1

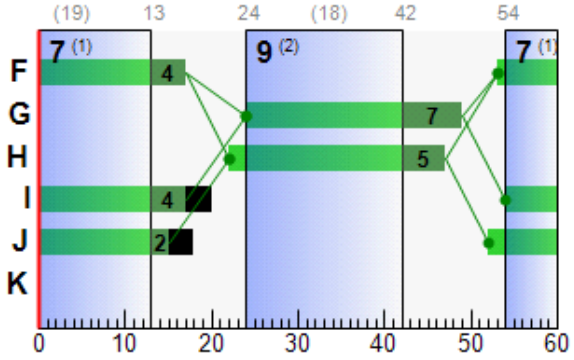
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-3	F	1	✓	53	17	24
	G	1	✓	24	49	25
	H	1	✓	22	47	25
	I	1	✓	54	17	23
	J	1	✓	52	15	23

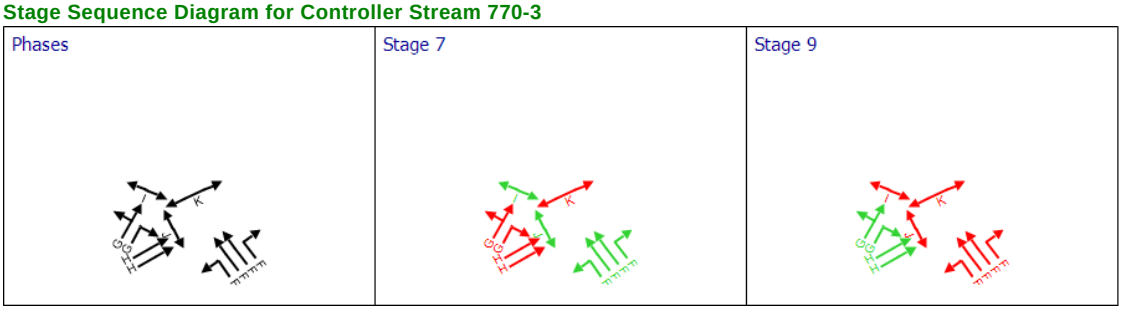
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
Ec	1	4	770-3	F	53	17	24
Ec	2	4	770-3	F	53	17	24
Ec	3	4	770-3	F	53	17	24
Ec	4	4	770-3	F	53	17	24
E1	1	4	770-3	G	24	49	25
E1	2	4	770-3	G	24	49	25
E2	3	4	770-3	H	22	47	25
E2	4	4	770-3	H	22	47	25

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	60

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	24, 37

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	44	24	40	1	7
	2	✓	12	M	29	37	8	1	6

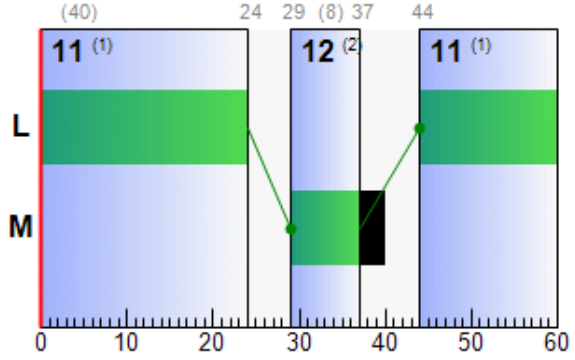
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
770-4	L	1	✓	44	24	40
	M	1	✓	29	37	8

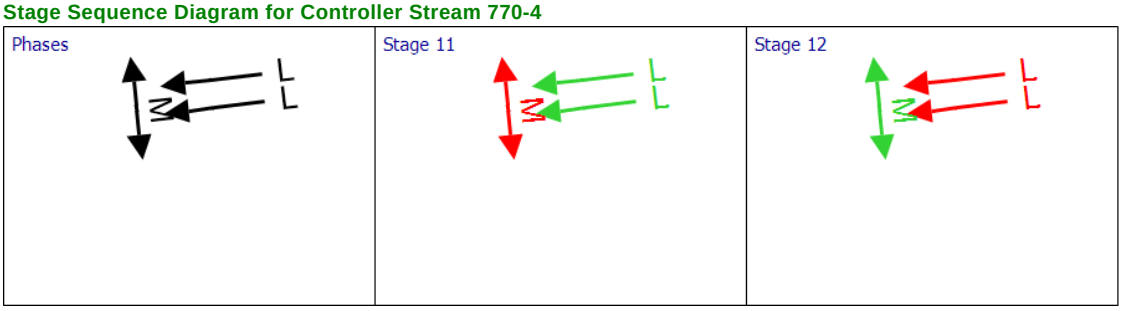
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
Exp	1	4-2	770-4	L	44	24	40
Exp	2	4-2	770-4	L	44	24	40

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	60

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
	D	(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, D	1

Losing / Gaining Phase Delays

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

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
771-1	1	(untitled)	Single	1, 3	9, 38

Intergreen Matrix for Controller Stream 771-1

		To			
		A	B	C	D
From	A		5		5
	B	5		5	
	C		11		
	D	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	11	11	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	49	9	20	1	9
	2	✓	3	B,D	20	38	18	1	9

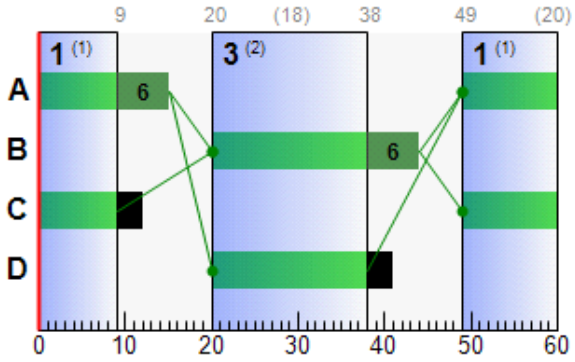
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
771-1	A	1	✓	49	15	26
	B	1	✓	20	44	24
	C	1	✓	49	9	20
	D	1	✓	20	38	18

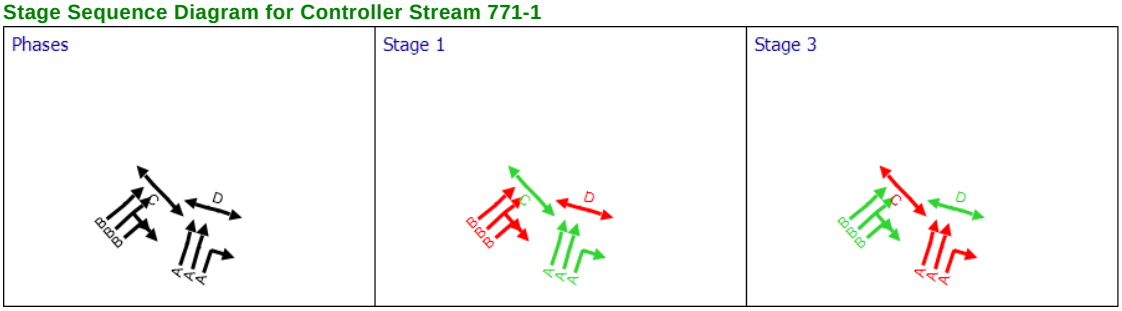
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
F	1	5	771-1	B	20	44	24
F	2	5	771-1	B	20	44	24
F	3	5	771-1	B	20	44	24
Fc	1	5	771-1	A	49	15	26
Fc	2	5	771-1	A	49	15	26
Fc	3	5	771-1	A	49	15	26

Phase Timings Diagram for Controller Stream 771-1



Stage Sequence Diagram for Controller Stream 771-1



Controller Stream 771-2

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
771-2	(untitled)		1	NetworkDefault	60

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	✓	✓	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)
771-2	A	(untitled)	7	300	0	0	Pedestrian	3
	D	(untitled)	7	300	0	0	Traffic	
	E	(untitled)	7	300	0	0	Traffic	
	F	(untitled)	7	300	0	0	Pedestrian	3

Library Stages

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

Losing / Gaining Phase Delays

Controller Stream	Delay	Type	Phase	From stage	To stage	Relative delay
771-2	1	Losing	E	6	5	7
	2	Losing	D	5	6	11

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
771-2	1	(untitled)	Single	5, 6	1, 33

Intergreen Matrix for Controller Stream 771-2

		To			
		A	D	E	F
From	A		12		
	D	5		5	
	E		5		5
	F			16	

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	16
	6	12	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,F	45	1	16	1	7
	2	✓	6	E,A	17	33	16	1	7

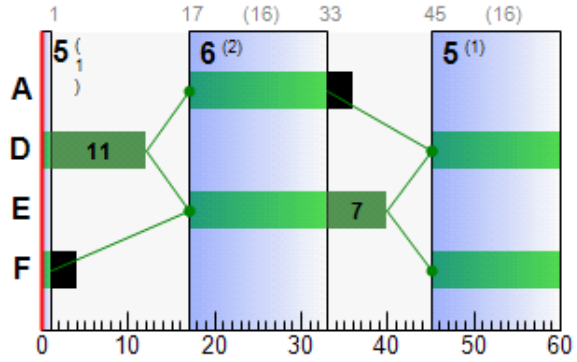
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
771-2	A	1	✓	17	33	16
	D	1	✓	45	12	27
	E	1	✓	17	40	23
	F	1	✓	45	1	16

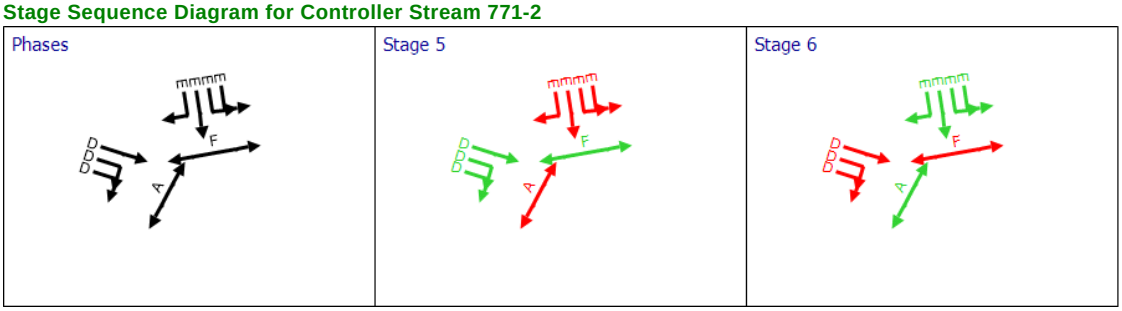
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
A	1	6	771-2	E	17	40	23
A	2	6	771-2	E	17	40	23
A	3	6	771-2	E	17	40	23
A	4	6	771-2	E	17	40	23
Ac	1	6	771-2	D	45	12	27
Ac	2	6	771-2	D	45	12	27
Ac	3	6	771-2	D	45	12	27

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	60

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	✓	✓	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)
TC777-1	A	Dewsbury Rd NB	7	300	0	1	Traffic	
	B	Dewsbury Rd SB	7	300	0	2	Traffic	
	C	Dewsbury Rd NB RT	7	300	0	0	Traffic	
	D	Topcliffe Ln RT	7	300	0	0	Traffic	
	E	Side Road	7	300	0	0	Traffic	
	F	Ped Xing at D	5	300	0	0	Pedestrian	3
	G	Ped Xing at B	7	300	0	0	Pedestrian	3
	H	Ped Xing at A AH	6	300	0	0	Pedestrian	3
	I	Ped Xing at A LT	5	300	0	0	Pedestrian	3
	J	(untitled)	7	300	0	0	Traffic	

Library Stages

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

Losing / Gaining Phase Delays

Controller Stream	Delay	Type	Phase	From stage	To stage	Relative delay
TC777-1	1	Losing	B	1	5	3

Stage Sequences

Controller Stream	Sequence	Name	Multiple cycling	Stage IDs	Stage ends
TC777-1	1	(untitled)	Single	1, 5, 7	38, 54, 6

Intergreen Matrix for Controller Stream TC777-1

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

Banned Stage transitions for Controller Stream TC777-1

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

Interstage Matrix for Controller Stream TC777-1

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

Resultant Stages

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
TC777-1	1	✓	1	A,B,F	11	38	27	1	4
	2	✓	5	D,H,I	46	54	8	1	7
	3	✓	7	A,F,J	0	6	6	1	6

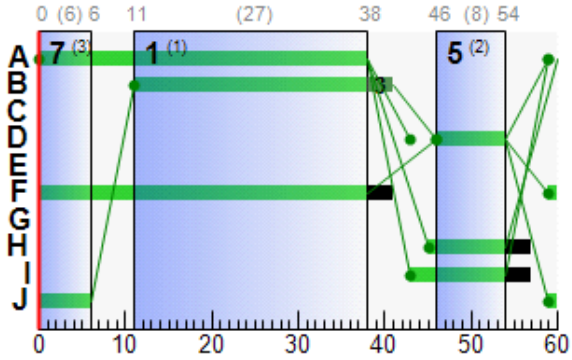
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
TC777-1	A	1	✓	0	38	38
	B	1	✓	11	41	30
	D	1	✓	46	54	8
	F	1	✓	59	38	39
	H	1	✓	45	54	9
	I	1	✓	43	54	11
	J	1	✓	59	6	7

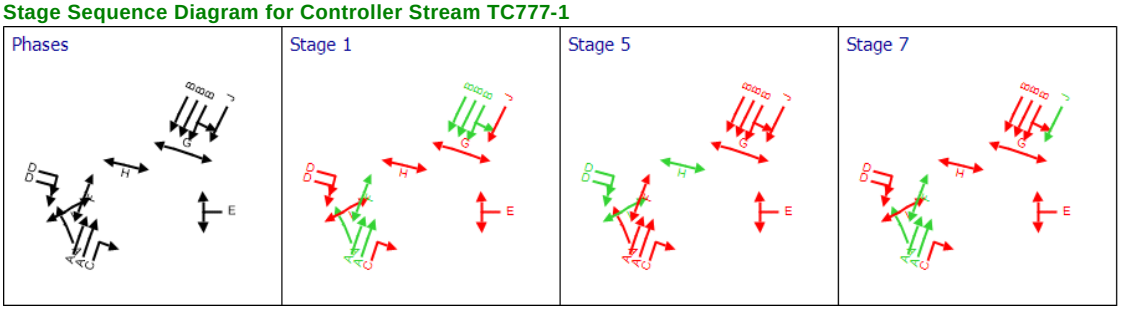
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
TC5	2	TC771-6	TC777-1	A	0	38	38
TC5	3	TC771-6	TC777-1	A	0	38	38
TC5	4	TC771-6	TC777-1	C			
TC9	1	TC771-6	TC777-1	B	11	41	30
TC9	2	TC771-6	TC777-1	B	11	41	30
TC9	3	TC771-6	TC777-1	B	11	41	30
TC35	1	TC771-6	TC777-1	A	0	38	38
TC41	1	TC771-6	TC777-1	D	46	54	8
TC41	2	TC771-6	TC777-1	D	46	54	8
TC42	1	TC771-6	TC777-1	E			
53	1	TC771-6	TC777-1	J	59	6	7

Phase Timings Diagram for Controller Stream TC777-1



Stage Sequence Diagram for Controller Stream TC777-1



Controller Stream TC777-2

Controller Stream	Name	Description	Use sequence	Cycle time source	Cycle time (s)
TC777-2	Topcliffe Ln LT Ped		1	NetworkDefault	60

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	✓	✓	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)
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	40, 50

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	55	40	45	1	7
	2	✓	2	K	45	50	5	1	5

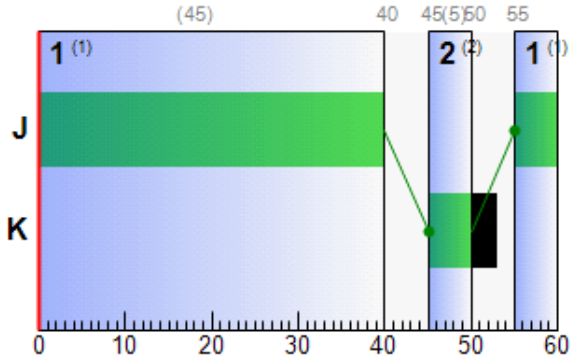
Resultant Phase Green Periods

Controller Stream	Phase	Green period	Is base green period	Start time (s)	End time (s)	Duration (s)
TC777-2	J	1	✓	55	40	45
	K	1	✓	45	50	5

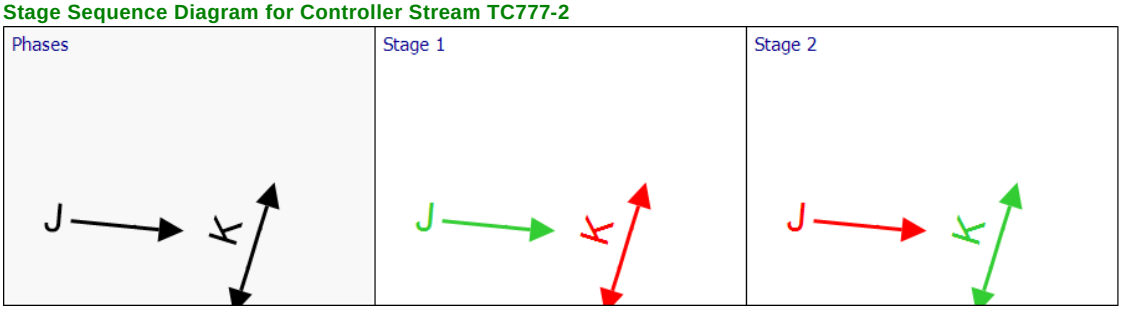
Traffic Stream Green Times

Arm	Traffic Stream	Traffic Node	Controller Stream	Phase	Green Period 1		
					Start	End	Duration
TC37	1	TC771-6	TC777-2	J	55	40	45

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)
16:30-17:30	(ALL)	0.00	0.00	0.00	0.00

Results - Link

Results - Traffic Stream

Results - Traffic Stream: Vehicle summary

Time Segment	Arm	Traffic Stream	Name	Phase	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual green (s (per cycle))	Calculated capacity (PCU/hr)	Degree of saturation (%)	Practical reserve capacity (%)	Mean Delay per Veh (s)	Mean max queue (PCU)	Utilised storage (%)	JourneyTime (s)
	A	1	(untitled)	E	820	2050	23	820	100	-10	84.21	24.81	201.77	89.51
		2	(untitled)	E	354	2050	23	820	43	109	17.87	3.55	27.95	23.35
		3	(untitled)	E	535	2050	23	820	65	38	10.07	2.93	22.53	15.67
		4	(untitled)	E	820	2050	23	820	100	-10	91.27	25.43	191.35	97.00
	Ac	1	(untitled)	D	885	2263	27	1056	84	7	23.29	9.66	62.34	29.97
		2	(untitled)	D	292	2263	27	976	30	201	10.88	4.20	27.99	19.75
		3	(untitled)	D	557	2263	27	1056	53	71	15.89	8.61	59.94	22.09
	Acf	1	(untitled)		1177	2263	60	2263	52	73	0.86	0.28	2.26	6.23
		2	(untitled)		557	2263	60	2263	25	266	0.26	0.04	0.32	7.65
	Af	1	(untitled)		1174	2050	60	1890	62	45	3.41	8.45	87.78	10.05
		2	(untitled)		535	2050	60	2050	26	245	0.31	0.05	0.48	6.93
		3	(untitled)		820	2050	60	829	99	-9	63.84	20.50	213.21	70.48
	B	1	(untitled)	B	98	2050	11	410	24	277	15.52	2.36	14.31	22.62
		2	(untitled)	B	336	2150	11	423	79	13	31.95	6.11	36.16	39.24
		3	(untitled)	B	420	2100	11	420	100	-10	192.77	26.00	149.97	200.25
		4	(untitled)	B	368	2050	11	410	90	0	56.15	9.38	52.63	68.44
	Bc	1	(untitled)	A	733	2050	37	1298	56	59	11.20	14.29	61.58	21.21
		2	(untitled)	A	820	2050	37	1258	65	38	16.86	10.90	47.46	26.77
		3	(untitled)	A	1005	2050	37	1298	77	16	23.62	19.89	87.50	33.42
	Bcf	1	(untitled)		1705	2263	60	2263	75	19	2.42	1.14	9.62	7.13
		2	(untitled)		733	2263	60	2263	32	178	0.38	0.08	0.65	6.14
		3	(untitled)		820	2263	60	2263	36	148	0.45	0.10	0.88	6.59
		4	(untitled)		1005	2263	60	2249	45	101	0.65	2.00	17.05	7.26
	Bf	1	(untitled)		434	1800	60	1800	24	273	0.32	0.04	0.10	27.65
		2	(untitled)		788	1800	60	819	96	-6	130.54	46.85	117.93	157.95
	C	1	(untitled)	G	450	2100	15	560	80	12	33.21	8.10	38.44	47.75
		2	(untitled)	G	344	2200	15	560	61	46	24.39	5.26	24.73	39.08
		3	(untitled)	G	287	2050	15	547	53	71	22.47	4.11	19.03	37.39
	Cf	1	(untitled)		450	1965	60	1965	23	293	0.27	0.03	0.14	17.62
		2	(untitled)		631	1965	60	1965	32	180	0.43	0.08	0.30	17.94
		1	(untitled)	B	413	2050	17	615	67	34	21.24	6.04	63.19	25.37

	D	2	(untitled)	B	204	1850	17	555	37	145	15.81	2.67	27.92	19.94
		3	(untitled)	B	323	2250	17	675	48	88	16.40	4.17	42.77	20.60
		4	(untitled)	B	429	2250	17	675	64	42	19.57	6.08	58.47	24.05
	Dc	1	(untitled)	A	537	2100	31	1120	48	88	5.50	2.54	29.04	9.27
		2	(untitled)	A	1060	2100	31	1118	95	-5	34.16	13.78	163.87	37.78
		3	(untitled)	A	234	2100	31	1120	21	331	6.45	2.35	29.07	9.93
		4	(untitled)	A	505	2100	31	1120	45	100	22.31	6.55	84.66	25.65
	Dcf	1	(untitled)		1020	2050	60	2050	50	81	0.87	0.25	2.14	5.81
		2	(untitled)		775	2100	60	2100	37	144	0.50	0.11	0.94	5.44
		3	(untitled)		537	2100	60	2100	26	252	0.29	0.04	0.38	5.27
		4	(untitled)		1060	2100	60	1126	94	-4	27.80	14.06	121.40	32.79
		5	(untitled)		234	2100	60	2100	11	709	0.11	0.01	0.06	5.12
		6	(untitled)		505	2100	60	1891	27	237	0.70	2.37	20.28	5.74
	Df	1	(untitled)	B	605	1900	43	1393	43	107	4.12	4.03	11.59	28.12
		2	(untitled)	B	752	2250	43	1650	46	97	4.12	5.20	14.96	28.12
	Dxp	1	(untitled)	D	1028	2050	41	1435	72	26	4.14	2.57	31.75	7.63
		2	(untitled)	D	816	2050	41	1435	57	58	1.71	0.46	5.40	5.36
	Ec	1	(untitled)	F	704	2150	24	896	79	14	14.37	6.97	80.03	18.13
		2	(untitled)	F	438	2263	24	943	46	94	14.08	4.27	50.65	17.72
		3	(untitled)	F	807	2263	24	943	86	5	23.84	9.38	115.27	27.35
		4	(untitled)	F	402	2250	24	938	43	110	5.69	2.48	31.60	9.07
	Ecf	1	(untitled)		637	2100	60	1684	38	138	1.69	2.43	30.47	5.14
		2	(untitled)		1373	2100	60	1968	70	29	2.68	5.81	72.07	6.16
		3	(untitled)		438	2263	60	2263	19	365	0.19	0.02	0.28	3.71
		4	(untitled)		807	2300	60	1388	58	55	4.84	3.00	36.26	8.40
		5	(untitled)		450	2300	60	2300	20	360	0.19	0.02	0.28	3.83
	Ef	1	(untitled)		859	1900	60	1900	45	99	0.78	0.19	0.84	16.09
		2	(untitled)		627	1900	60	532	118	-24	300.29	58.60	264.17	315.60
16:30-17:30	Exp	1	(untitled)	L	637	2050	40	1401	45	98	10.66	7.03	78.02	14.54
		2	(untitled)	L	669	2050	40	1401	48	88	11.40	9.05	96.90	15.42
	F	1	(untitled)	B	233	2100	24	875	27	238	12.24	2.48	16.74	18.63
		2	(untitled)	B	297	2100	24	875	34	165	12.95	3.14	21.07	19.38
		3	(untitled)	B	463	2100	24	875	53	70	15.40	5.40	35.57	21.94
	Fc	1	(untitled)	A	604	2263	26	1018	59	52	16.25	6.75	21.53	35.26
		2	(untitled)	A	839	2263	26	956	88	3	39.65	16.43	52.93	58.06
		3	(untitled)	A	949	2263	26	1003	95	-5	40.26	21.12	68.52	59.48
	Ff	1	(untitled)		530	1900	60	1900	28	223	0.37	0.05	0.11	33.45
		2	(untitled)		463	1900	60	1900	24	269	0.31	0.04	0.08	33.35
	G	1	(untitled)	F	320	2050	15	320	100	-10	351.82	35.53	130.83	367.88
		2	(untitled)	F	268	2050	15	527	51	77	33.31	4.55	17.14	44.76
	Gf	1	(untitled)		285	2050	60	906	32	186	26.34	4.68	69.22	29.26
		2	(untitled)		244	2050	60	2050	12	657	0.12	0.01	0.12	3.00
	xA	1	(untitled)		773	2263	60	2263	34	163	0.41	0.09	0.22	17.75
		2	(untitled)		877	2263	60	2263	39	132	0.50	0.12	0.30	17.90
	xB	1	(untitled)		1705	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	5.79
	xC	1	(untitled)		687	1900	60	676	102	-11	136.73	33.11	164.67	145.40
		2	(untitled)		640	1900	60	713	90	0	25.50	12.80	63.47	34.19
	xD	1	(untitled)		1028	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.13
		2	(untitled)		816	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.21
	xE	1	(untitled)		637	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
		2	(untitled)		669	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	xF	1	(untitled)		818	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
	Cc1	1	(untitled)	E	729	2050	30	1059	69	31	15.12	8.46	50.75	21.65
	E1	1	(untitled)	G	312	2050	25	888	35	156	12.46	3.22	23.13	18.46
		2	(untitled)	G	547	2200	25	953	57	57	15.38	6.25	44.89	21.38
	Gf1	1	(untitled)		48	652	60	457	10	757	0.81	0.03	0.40	4.40
		2	(untitled)	D	921	2150	29	1032	89	1	33.19	14.69	93.25	43.91
		3	(untitled)	D	716	2050	29	1025	70	29	13.11	7.72	49.69	22.48

	Cc2	4	(untitled)	D	961	2150	29	1075	89	1	26.98	16.87	106.94	36.91
		5	(untitled)	D	84	2050	29	1025	8	1003	3.08	0.21	1.36	11.78
		6	(untitled)	D	368	2050	29	1025	36	151	0.98	0.10	0.65	8.90
	E2	3	(untitled)	H	285	2150	25	285	100	-10	173.93	14.72	158.89	177.93
		4	(untitled)	H	248	2050	25	888	28	222	3.48	0.43	4.51	7.56
	TC5	2	(untitled)	A	594	2263	38	1509	39	129	4.59	2.48	61.97	7.35
		3	(untitled)	A	877	2263	38	1509	58	55	1.65	0.40	10.04	4.41
		4	(untitled)	C	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC9	1	(untitled)	B	960	1925	30	960	100	-10	86.49	30.95	194.06	97.50
		2	(untitled)	B	495	1966	30	1081	46	97	16.63	6.88	42.97	27.69
		3	(untitled)	B	601	1947	30	601	100	-10	134.07	27.72	171.94	145.19
	TC35	1	(untitled)	A	179	1900	38	1267	14	537	4.34	1.46	34.77	7.24
	TC36	1	(untitled)		568	1800	60	1800	32	185	0.46	0.07	1.66	3.49
	TC37	1	(untitled)	J	110	1850	45	1418	8	1060	1.86	0.43	5.59	5.05
	TC38	1	(untitled)		110	426	60	426	26	249	3.84	2.46	66.36	5.37
	TC39	2	(untitled)		594	2263	60	2263	26	243	0.28	0.05	0.76	2.82
		3	(untitled)		877	2263	60	2263	39	132	0.50	0.12	2.12	2.90
	TC40	2	(untitled)		704	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		877	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC41	1	(untitled)	D	202	1850	8	278	73	24	40.97	3.91	41.15	44.90
		2	(untitled)	D	256	1850	8	278	92	-2	78.82	7.58	79.19	82.78
	TC42	1	(untitled)	E	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC43	1	(untitled)		0	1800	60	1800	0	Unrestricted	0.00	0.00	0.00	0.00
	47	1	(untitled)		1300	1300	60	1300	100	-10	48.58	17.54	75.48	64.61
	48	1	(untitled)		1081	1965	60	1965	55	64	1.12	0.34	3.50	7.73
	49	1	(untitled)		1175	1900	60	975	121	-25	322.19	118.35	2593.14	325.34
		2	(untitled)		1353	1900	60	1095	124	-27	356.19	148.87	3261.81	359.34
	50	1	(untitled)		1422	1900	60	1221	116	-23	269.10	123.27	1472.20	274.88
	51	1	(untitled)		993	1900	60	1900	52	72	1.04	0.29	4.38	5.53
	53	1		J	15	1800	7	240	6	1346	15.76	0.20	1.24	26.68
	54	1		A	12	1800	7	240	5	1700	23.36	0.17	0.50	47.36

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)
11	1	✓	1	A	35	42	7	1	7
	2	✓	2	B	47	30	43	1	7
769-1	1	✓	1	A,C	56	29	33	1	7
	2	✓	2	B	40	51	11	1	7
769-2	1	✓	4	D,E,H,I	43	5	22	1	1
	2	✓	5	F,G,J,K	19	28	9	1	9
770-1	1	✓	1	A,C	23	52	29	1	7
	2	✓	2	B	1	18	17	1	7
770-2	1	✓	4	D	42	23	41	1	7
	2	✓	5	E	28	35	7	1	5
770-3	1	✓	7	F,I,J	54	13	19	1	2
	2	✓	9	G,H	24	42	18	1	1
770-4	1	✓	11	L	44	24	40	1	7
	2	✓	12	M	29	37	8	1	6
771-1	1	✓	1	A,C	49	9	20	1	9
	2	✓	3	B,D	20	38	18	1	9
771-2	1	✓	5	D,F	45	1	16	1	7
	2	✓	6	E,A	17	33	16	1	7
TC777-1	1	✓	1	A,B,F	11	38	27	1	4
	2	✓	5	D,H,I	46	54	8	1	7
	3	✓	7	A,F,J	0	6	6	1	6
TC777-2	1	✓	1	J	55	40	45	1	7
	2	✓	2	K	45	50	5	1	5

Data Entry - Phase

Phase

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

Data Entry - Traffic Stream

Traffic Stream

Arm	Traffic Stream	Auto length	Length (m)	Traffic model	Max queue storage (PCU)	Traffic type	Has Saturation Flow	Is signal controlled	Is give way	Saturation flow source	Saturation flow (PCU/hr)	Delay weighting multiplier (%)	Stop weighting multiplier (%)
A	1	✓	70.69	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	73.01	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	3	✓	74.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	4	✓	76.41	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ac	1	✓	89.10	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	2	✓	86.29	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	82.56	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
Acf	1	✓	71.57	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	71.88	CTM	0.00	Normal	✓			Directly entered	2263	100	100
Af	1	✓	55.35	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	55.14	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	3	✓	55.30	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	✓	133.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	132.05	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	3	✓	130.69	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Bcf	1	✓	68.43	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	68.75	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	67.45	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	67.45	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
	1		55.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100

D	**2**		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
	3	✓	56.07	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
	4	✓	59.77	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
Dc	**1**	✓	50.27	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	48.34	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	46.42	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	4	✓	44.49	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	✓	66.37	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	66.58	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.90	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	6	✓	67.13	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	✓	45.11	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	✓	47.50	CTM	0.00	Normal	✓			Directly entered	2300	100	100
	5	✓	48.55	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
	1	✓	180.19	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100

Fc	**2**	✓	178.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	177.26	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**	✓	231.18	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	232.02	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**	✓	47.81	NetworkDefault	0.00	Normal			✓			100	100
Cc2	**2**	✓	90.61	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	3	✓	89.36	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	4	✓	90.73	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	5	✓	88.39	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	6	✓	87.97	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
53	**1**		91.00	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1800	100	100
54	**1**		200.00	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1800	100	100

Data entry - Link

Results - Pedestrian

Pedestrian Crossings: Pedestrian summary

Time Segment	Pedestrian crossing	Side	Calculated Flow Entering (Ped/hr)	Degree of saturation (%)	Actual green (s (per cycle))	Mean Delay Per Ped (s)	Mean max queue (Ped)
16:30-17:30	1	1	0	0	7	0.00	0.00
		2	0	0	7	0.00	0.00
	2	1	0	0	29	0.00	0.00
		2	0	0	29	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	23	0.00	0.00
		2	0	0	23	0.00	0.00
	5	1	0	0	23	0.00	0.00
		2	0	0	23	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	20	0.00	0.00
		2	0	0	20	0.00	0.00
	8	1	0	0	33	0.00	0.00
		2	0	0	33	0.00	0.00
	9	1	0	0	12	0.00	0.00
		2	0	0	12	0.00	0.00
	10	1	0	0	17	0.00	0.00
		2	0	0	17	0.00	0.00
	11	1	0	0	28	0.00	0.00
		2	0	0	28	0.00	0.00
	12	1	0	0	28	0.00	0.00
		2	0	0	28	0.00	0.00
	13	1	0	0	11	0.00	0.00
		2	0	0	11	0.00	0.00
	14	1	0	0	39	0.00	0.00
		2	0	0	39	0.00	0.00
	15	1	0	0	0	0.00	0.00
		2	0	0	0	0.00	0.00
	16	1	0	0	9	0.00	0.00
		2	0	0	9	0.00	0.00
	17	1	0	0	5	0.00	0.00
		2	0	0	5	0.00	0.00
	18	1	0	0	16	0.00	0.00
		2	0	0	16	0.00	0.00
	19	1	0	0	16	0.00	0.00
		2	0	0	16	0.00	0.00
	20	1	0	0	18	0.00	0.00
		2	0	0	18	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)
		1	100	-10	820	2050	23	84.21	24.81	201.77	272.36	41.96	314.33

A	2	43	109	354	2050	23	17.87	3.55	27.95	24.93	6.92	31.85
	3	65	38	535	2050	23	10.07	2.93	22.53	21.24	5.36	26.60
	4	100	-10	820	2050	23	91.27	25.43	191.35	295.21	43.06	338.27
Ac	1	84	7	885	2263	27	23.29	9.66	62.34	81.34	18.49	99.83
	2	30	201	292	2263	27	10.88	4.20	27.99	12.53	4.43	16.96
	3	53	71	557	2263	27	15.89	8.61	59.94	34.92	16.49	51.41
Acf	1	52	73	1177	2263	60	0.86	0.28	2.26	4.00	0.00	4.00
	2	25	266	557	2263	60	0.26	0.04	0.32	0.57	0.00	0.57
Af	1	62	45	1174	2050	60	3.41	8.45	87.78	15.78	3.85	19.63
	2	26	245	535	2050	60	0.31	0.05	0.48	0.65	0.00	0.65
	3	99	-9	820	2050	60	63.84	20.50	213.21	206.50	14.18	220.68
B	1	24	277	98	2050	11	15.52	2.36	14.31	5.99	2.24	8.23
	2	79	13	336	2150	11	31.95	6.11	36.16	42.32	10.65	52.97
	3	100	-10	420	2100	11	192.77	26.00	149.97	319.36	40.95	360.30
	4	90	0	368	2050	11	56.15	9.38	52.63	81.42	6.76	88.17
Bc	1	56	59	733	2050	37	11.20	14.29	61.58	32.37	15.71	48.08
	2	65	38	820	2050	37	16.86	10.90	47.46	54.52	20.80	75.32
	3	77	16	1005	2050	37	23.62	19.89	87.50	93.62	33.00	126.62
Bcf	1	75	19	1705	2263	60	2.42	1.14	9.62	16.26	0.00	16.26
	2	32	178	733	2263	60	0.38	0.08	0.65	1.10	0.00	1.10
	3	36	148	820	2263	60	0.45	0.10	0.88	1.46	0.00	1.46
	4	45	101	1005	2263	60	0.65	2.00	17.05	2.56	0.24	2.80
Bf	1	24	273	434	1800	60	0.32	0.04	0.10	0.54	0.00	0.54
	2	96	-6	788	1800	60	130.54	46.85	117.93	405.53	33.37	438.90
C	1	80	12	450	2100	15	33.21	8.10	38.44	58.95	6.03	64.98
	2	61	46	344	2200	15	24.39	5.26	24.73	33.10	4.01	37.11
	3	53	71	287	2050	15	22.47	4.11	19.03	25.44	3.09	28.53
Cf	1	23	293	450	1965	60	0.27	0.03	0.14	0.48	0.00	0.48
	2	32	180	631	1965	60	0.43	0.08	0.30	1.08	0.00	1.08
D	1	67	34	413	2050	17	21.24	6.04	63.19	34.61	11.44	46.05
	2	37	145	204	1850	17	15.81	2.67	27.92	12.72	5.03	17.75
	3	48	88	323	2250	17	16.40	4.17	42.77	20.89	8.01	28.90
	4	64	42	429	2250	17	19.57	6.08	58.47	33.11	11.59	44.70
Dc	1	48	88	537	2100	31	5.50	2.54	29.04	11.65	4.41	16.06
	2	95	-5	1060	2100	31	34.16	13.78	163.87	142.85	25.34	168.19
	3	21	331	234	2100	31	6.45	2.35	29.07	5.95	2.34	8.29
	4	45	100	505	2100	31	22.31	6.55	84.66	44.41	12.90	57.31
Dcf	1	50	81	1020	2050	60	0.87	0.25	2.14	3.49	0.00	3.49
	2	37	144	775	2100	60	0.50	0.11	0.94	1.53	0.00	1.53
	3	26	252	537	2100	60	0.29	0.04	0.38	0.62	0.00	0.62
	4	94	-4	1060	2100	60	27.80	14.06	121.40	116.24	26.07	142.31
	5	11	709	234	2100	60	0.11	0.01	0.06	0.10	0.00	0.10
	6	27	237	505	2100	60	0.70	2.37	20.28	1.40	1.74	3.14
Df	1	43	107	605	1900	43	4.12	4.03	11.59	9.84	2.79	12.64
	2	46	97	752	2250	43	4.12	5.20	14.96	12.21	3.51	15.72
Dxp	1	72	26	1028	2050	41	4.14	2.57	31.75	16.78	4.76	21.54
	2	57	58	816	2050	41	1.71	0.46	5.40	5.52	0.86	6.38
Ec	1	79	14	704	2150	24	14.37	6.97	80.03	39.93	13.09	53.02
	2	46	94	438	2263	24	14.08	4.27	50.65	24.31	8.37	32.68
	3	86	5	807	2263	24	23.84	9.38	115.27	75.89	17.85	93.75
	4	43	110	402	2250	24	5.69	2.48	31.60	9.01	2.40	11.41
Ecf	1	38	138	637	2100	60	1.69	2.43	30.47	4.25	2.20	6.46
	2	70	29	1373	2100	60	2.68	5.81	72.07	14.53	6.41	20.94
	3	19	365	438	2263	60	0.19	0.02	0.28	0.33	0.00	0.33
	4	58	55	807	2300	60	4.84	3.00	36.26	15.41	4.72	20.13
	5	20	360	450	2300	60	0.19	0.02	0.28	0.34	0.00	0.34
Ef	1	45	99	859	1900	60	0.78	0.19	0.84	2.65	0.00	2.65
	2	118	-24	627	1900	60	300.29	58.60	264.17	742.67	20.71	763.38

16:30-17:30	Exp	1	45	98	637	2050	40	10.66	7.03	78.02	26.79	13.47	40.26
		2	48	88	669	2050	40	11.40	9.05	96.90	30.07	16.84	46.91
	F	1	27	238	233	2100	24	12.24	2.48	16.74	11.25	4.62	15.87
		2	34	165	297	2100	24	12.95	3.14	21.07	15.18	6.04	21.22
		3	53	70	463	2100	24	15.40	5.40	35.57	28.13	10.24	38.37
	Fc	1	59	52	604	2263	26	16.25	6.75	21.53	38.68	6.59	45.28
		2	88	3	839	2263	26	39.65	16.43	52.93	131.19	14.59	145.78
		3	95	-5	949	2263	26	40.26	21.12	68.52	150.65	19.62	170.27
	Ff	1	28	223	530	1900	60	0.37	0.05	0.11	0.77	0.00	0.77
		2	24	269	463	1900	60	0.31	0.04	0.08	0.56	0.00	0.56
	G	1	100	-10	320	2050	15	351.82	35.53	130.83	444.23	22.48	466.71
		2	51	77	268	2050	15	33.31	4.55	17.14	35.19	8.62	43.80
	Gf	1	32	186	285	2050	60	26.34	4.68	69.22	29.64	9.17	38.81
		2	12	657	244	2050	60	0.12	0.01	0.12	0.11	0.00	0.11
	xA	1	34	163	773	2263	60	0.41	0.09	0.22	1.26	0.00	1.26
		2	39	132	877	2263	60	0.50	0.12	0.30	1.74	0.00	1.74
	xB	1	0	Unrestricted	1705	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	xC	1	102	-11	687	1900	60	136.73	33.11	164.67	370.46	32.01	402.47
		2	90	0	640	1900	60	25.50	12.80	63.47	64.35	15.74	80.09
	xD	1	0	Unrestricted	1028	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	Unrestricted	816	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	xE	1	0	Unrestricted	637	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
		2	0	Unrestricted	669	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	xF	1	0	Unrestricted	818	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	Cc1	1	69	31	729	2050	30	15.12	8.46	50.75	43.48	17.17	60.66
	E1	1	35	156	312	2050	25	12.46	3.22	23.13	15.34	6.18	21.52
		2	57	57	547	2200	25	15.38	6.25	44.89	33.18	11.99	45.18
	Gf1	1	10	757	48	652	60	0.81	0.03	0.40	0.15	0.05	0.21
	Cc2	2	89	1	921	2150	29	33.19	14.69	93.25	120.58	11.81	132.39
		3	70	29	716	2050	29	13.11	7.72	49.69	37.03	5.91	42.94
		4	89	1	961	2150	29	26.98	16.87	106.94	102.25	15.30	117.56
		5	8	1003	84	2050	29	3.08	0.21	1.36	1.02	0.25	1.26
		6	36	151	368	2050	29	0.98	0.10	0.65	1.42	0.00	1.42
	E2	3	100	-10	285	2150	25	173.93	14.72	158.89	195.19	19.86	215.05
		4	28	222	248	2050	25	3.48	0.43	4.51	3.41	0.87	4.28
	TC5	2	39	129	594	2263	38	4.59	2.48	61.97	10.75	1.87	12.61
		3	58	55	877	2263	38	1.65	0.40	10.04	5.71	0.00	5.71
		4	0	-100	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
	TC9	1	100	-10	960	1925	30	86.49	30.95	194.06	327.53	22.36	349.89
		2	46	97	495	1966	30	16.63	6.88	42.97	32.45	5.18	37.63
		3	100	-10	601	1947	30	134.07	27.72	171.94	317.67	22.89	340.55
	TC35	1	14	537	179	1900	38	4.34	1.46	34.77	3.06	0.62	3.69
	TC36	1	32	185	568	1800	60	0.46	0.07	1.66	1.03	0.00	1.03
	TC37	1	8	1060	110	1850	45	1.86	0.43	5.59	0.81	0.90	1.71
	TC38	1	26	249	110	426	60	3.84	2.46	66.36	1.67	1.84	3.51
	TC39	2	26	243	594	2263	60	0.28	0.05	0.76	0.66	0.00	0.66
		3	39	132	877	2263	60	0.50	0.12	2.12	1.74	0.00	1.74
	TC40	2	0	Unrestricted	704	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
		3	0	Unrestricted	877	Unrestricted	60	0.00	0.00	0.00	0.00	0.00	0.00
	TC41	1	73	24	202	1850	8	40.97	3.91	41.15	32.64	8.03	40.67
		2	92	-2	256	1850	8	78.82	7.58	79.19	79.59	14.31	93.89
	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	60	0.00	0.00	0.00	0.00	0.00	0.00
	47	1	100	-10	1300	1300	60	48.58	17.54	75.48	249.09	0.00	249.09
	48	1	55	64	1081	1965	60	1.12	0.34	3.50	4.77	0.00	4.77
	49	1	121	-25	1175	1900	60	322.19	118.35	2593.14	1493.27	39.08	1532.35
		2	124	-27	1353	1900	60	356.19	148.87	3261.81	1900.94	45.35	1946.28
	50	1	116	-23	1422	1900	60	269.10	123.27	1472.20	1509.37	46.48	1555.85

	51	1	52	72	993	1900	60	1.04	0.29	4.38	4.06	0.00	4.06
	53	1	6	1346	15	1800	7	15.76	0.20	1.24	0.93	0.14	1.07
	54	1	5	1700	12	1800	7	23.36	0.17	0.50	1.11	0.13	1.23

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	820	820	135	✓	2050	820	100	✓	-10	0.71	23
		2	354	354	63	✓	2050	820	43		109	0.66	23
		3	535	535	116	✓	2050	820	65		38	1.17	23
		4	820	820	142	✓	2050	820	100	✓	-10	0.85	23
	Ac	1	885	885	0		2263	1056	84		7	1.12	27
		2	292	292	-1		2263	976	30		201	1.17	27
		3	557	557	-2	✓	2263	1056	53		71	0.91	27
	Acf	1	1177	1177	-1		2263	2263	52		73	0.77	60
		2	557	557	-2	✓	2263	2263	25		266	0.91	60
	Af	1	1174	1174	198	✓	2050	1890	62		45	0.66	60
		2	535	535	116	✓	2050	2050	26		245	1.17	60
		3	820	820	142	✓	2050	829	99	✓	-9	0.90	60
	B	1	98	98	15	✓	2050	410	24		277	0.56	11
		2	336	336	55	✓	2150	423	79		13	0.56	11
		3	420	420	69	✓	2100	420	100	✓	-10	0.92	11
		4	368	368	59	✓	2050	410	90		0	0.92	11
	Bc	1	733	733	62	✓	2050	1298	56		59	0.95	37
		2	820	820	115	✓	2050	1258	65		38	0.94	37
		3	1005	1005	140	✓	2050	1298	77		16	0.84	37
	Bcf	1	1705	1705	135	✓	2263	2263	75		19	0.39	60
		2	733	733	62	✓	2263	2263	32		178	0.95	60
		3	820	820	115	✓	2263	2263	36		148	0.94	60
		4	1005	1005	140	✓	2263	2249	45		101	0.84	60
	Bf	1	434	434	70	✓	1800	1800	24		273	0.56	60
		2	788	788	128	✓	1800	819	96	✓	-6	0.56	60
	C	1	450	450	0		2100	560	80		12	0.00	15
		2	344	344	0		2200	560	61		46	0.00	15
		3	287	287	1		2050	547	53		71	0.00	15
	Cf	1	450	450	0		1965	1965	23		293	0.00	60
		2	631	631	1		1965	1965	32		180	0.00	60
	D	1	413	413	0		2050	615	67		34	0.53	17
		2	204	204	0		1850	555	37		145	0.55	17
		3	323	323	0		2250	675	48		88	0.53	17
		4	429	429	-1		2250	675	64		42	0.53	17
	Dc	1	537	537	29	✓	2100	1120	48		88	0.89	31
		2	1060	1060	109	✓	2100	1118	95	✓	-5	0.76	31
		3	234	234	16	✓	2100	1120	21		331	1.03	31
		4	505	505	60	✓	2100	1120	45		100	1.21	31
	Dcf	1	1020	1020	134	✓	2050	2050	50		81	0.91	60
		2	775	775	110	✓	2100	2100	37		144	0.99	60
		3	537	537	29	✓	2100	2100	26		252	0.89	60
		4	1060	1060	109	✓	2100	1126	94	✓	-4	0.83	60
		5	234	234	16	✓	2100	2100	11		709	1.03	60
		6	505	505	60	✓	2100	1891	27		237	1.29	60
	Df	1	605	605	0		1900	1393	43		107	0.00	43
		2	752	752	-1		2250	1650	46		97	0.00	43
	Dxp	1	1028	1028	126	✓	2050	1435	72		26	0.78	41
		2	816	816	69	✓	2050	1435	57		58	0.95	41
		1	704	704	29	✓	2150	896	79		14	0.74	24

16:30-17:30	Ec	2	438	438	16	✓	2263	943	46		94	1.16	24
		3	807	807	60	✓	2263	943	86		5	0.96	24
		4	402	402	0		2250	938	43		110	1.31	24
	Ecf	1	637	637	29	✓	2100	1684	38		138	0.94	60
		2	1373	1373	109	✓	2100	1968	70		29	0.57	60
		3	438	438	16	✓	2263	2263	19		365	1.16	60
		4	807	807	60	✓	2300	1388	58		55	1.12	60
		5	450	450	-1		2300	2300	20		360	1.32	60
	Ef	1	859	859	-1	✓	1900	1900	45		99	0.00	60
		2	627	532	0		1900	532	118	✓	-24	0.00	60
	Exp	1	637	637	29	✓	2050	1401	45		98	0.81	40
		2	669	669	81	✓	2050	1401	48		88	0.92	40
	F	1	233	233	0		2100	875	27		238	0.00	24
		2	297	297	-1		2100	875	34		165	0.00	24
		3	463	463	-1	✓	2100	875	53		70	0.00	24
	Fc	1	604	604	16	✓	2263	1018	59		52	1.12	26
		2	839	839	60	✓	2263	956	88		3	1.17	26
		3	949	949	-1	✓	2263	1003	95	✓	-5	0.92	26
	Ff	1	530	530	-1		1900	1900	28		223	0.00	60
		2	463	463	-1	✓	1900	1900	24		269	0.00	60
	G	1	320	320	38	✓	2050	320	100	✓	-10	1.02	15
		2	268	277	48	✓	2050	527	51		77	1.19	15
	Gf	1	285	296	50	✓	2050	906	32		186	1.45	60
		2	244	244	48	✓	2050	2050	12		657	1.36	60
	xA	1	773	773	14	✓	2263	2263	34		163	1.04	60
		2	877	877	62	✓	2263	2263	39		132	1.20	60
	xB	1	1705	1705	135	✓	Unrestricted	Unrestricted	0		Unrestricted	0.28	60
	xC	1	687	676	68	✓	1900	676	102	✓	-11	0.71	60
		2	640	624	67	✓	1900	713	90		0	0.92	60
	xD	1	1028	1028	126	✓	Unrestricted	Unrestricted	0		Unrestricted	0.67	60
		2	816	816	69	✓	Unrestricted	Unrestricted	0		Unrestricted	0.87	60
	xE	1	637	637	29	✓	Unrestricted	Unrestricted	0		Unrestricted	0.89	60
		2	669	669	81	✓	Unrestricted	Unrestricted	0		Unrestricted	1.08	60
	xF	1	818	818	29	✓	Unrestricted	Unrestricted	0		Unrestricted	0.72	60
	Cc1	1	729	729	59	✓	2050	1059	69		31	1.16	30
	E1	1	312	312	0		2050	888	35		156	0.00	25
		2	547	547	-1	✓	2200	953	57		57	0.00	25
	Gf1	1	48	48	-1		652	457	10		757	1.37	60
	Cc2	2	921	921	134	✓	2150	1032	89		1	1.05	29
		3	716	716	109	✓	2050	1025	70		29	0.77	29
		4	961	961	140	✓	2150	1075	89		1	0.68	29
		5	84	84	15	✓	2050	1025	8		1003	1.04	29
		6	368	368	59	✓	2050	1025	36		151	1.63	29
	E2	3	285	285	50	✓	2150	285	100	✓	-10	1.19	25
		4	248	244	44	✓	2050	888	28		222	1.19	25
	TC5	2	594	594	1		2263	1509	39		129	1.07	38
		3	877	877	62	✓	2263	1509	58		55	1.20	38
		4	0	0	0		0	0	0		-100	0.00	0
	TC9	1	960	960	196	✓	1925	960	100	✓	-10	0.73	30
		2	495	495	116	✓	1966	1081	46		97	0.70	30
		3	601	601	141	✓	1947	601	100	✓	-10	0.70	30
	TC35	1	179	179	14	✓	1900	1267	14		537	1.11	38
	TC36	1	568	568	-1		1800	1800	32		185	0.00	60
	TC37	1	110	110	0		1850	1418	8		1060	0.00	45
	TC38	1	110	110	0		426	426	26		249	0.47	60
	TC39	2	594	594	1		2263	2263	26		243	1.26	60
		3	877	877	62	✓	2263	2263	39		132	1.20	60

	TC40	2	704	704	1		Unrestricted	Unrestricted	0		Unrestricted	0.76	60
		3	877	877	62	✓	Unrestricted	Unrestricted	0		Unrestricted	1.06	60
	TC41	1	202	202	0		1850	278	73		24	0.00	8
		2	256	256	-1		1850	278	92	✓	-2	0.00	8
	TC42	1	0	0	0		0	0	0		-100	0.00	0
	TC43	1	0	0	0		1800	1800	0		Unrestricted	0.00	60
	47	1	1300	1300	162	✓	1300	1300	100	✓	-10	0.00	60
	48	1	1081	1081	1		1965	1965	55		64	0.00	60
	49	1	1175	975	-1	✓	1900	975	121	✓	-25	0.00	60
		2	1353	1095	0		1900	1095	124	✓	-27	0.00	60
	50	1	1422	1221	-2	✓	1900	1221	116	✓	-23	0.00	60
	51	1	993	993	-2	✓	1900	1900	52		72	0.00	60
	53	1	15	15	3	✓	1800	240	6		1346	0.67	7
	54	1	12	12	0		1800	240	5		1700	0.00	7

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	5.30	84.21	19.18	272.36	159.43	1307.33	41.96
		2	5.48	17.87	1.76	24.93	60.92	215.46	6.92
		3	5.60	10.07	1.50	21.24	31.26	167.10	5.36
		4	5.73	91.27	20.79	295.21	163.58	1341.36	43.06
	Ac	1	6.68	23.29	5.73	81.34	65.06	576.08	18.49
		2	8.88	10.88	0.88	12.53	88.82	259.35	4.43
		3	6.19	15.89	2.46	34.92	92.24	513.77	16.49
	Acf	1	5.37	0.86	0.28	4.00	0.00	0.00	0.00
		2	7.39	0.26	0.04	0.57	0.00	0.00	0.00
	Af	1	6.64	3.41	1.11	15.78	26.19	307.37	3.85
		2	6.62	0.31	0.05	0.65	0.00	0.00	0.00
		3	6.64	63.84	14.54	206.50	137.89	1130.68	14.18
	B	1	7.10	15.52	0.42	5.99	71.17	69.68	2.24
		2	7.29	31.95	2.98	42.32	98.78	331.72	10.65
		3	7.48	192.77	22.49	319.36	303.72	1275.61	40.95
		4	12.29	56.15	5.73	81.42	146.56	538.76	6.76
	Bc	1	10.01	11.20	2.28	32.37	66.79	489.37	15.71
		2	9.90	16.86	3.84	54.52	79.06	647.99	20.80
		3	9.80	23.62	6.59	93.62	102.28	1027.92	33.00
	Bcf	1	4.71	2.42	1.14	16.26	0.00	0.00	0.00
		2	5.76	0.38	0.08	1.10	0.00	0.00	0.00
		3	6.14	0.45	0.10	1.46	0.00	0.00	0.00
		4	6.61	0.65	0.18	2.56	1.09	10.95	0.24
	Bf	1	27.34	0.32	0.04	0.54	0.00	0.00	0.00
		2	27.41	130.54	28.56	405.53	337.87	2661.12	33.37
	C	1	14.54	33.21	4.15	58.95	106.90	481.04	6.03
		2	14.68	24.39	2.33	33.10	92.93	319.69	4.01
		3	14.92	22.47	1.79	25.44	85.94	246.64	3.09
	Cf	1	17.35	0.27	0.03	0.48	0.00	0.00	0.00
		2	17.50	0.43	0.08	1.08	0.00	0.00	0.00
	D	1	4.13	21.24	2.44	34.61	86.30	356.41	11.44
		2	4.13	15.81	0.90	12.72	76.78	156.64	5.03
		3	4.21	16.40	1.47	20.89	77.25	249.50	8.01
		4	4.48	19.57	2.33	33.11	84.15	361.00	11.59
	Dc	1	3.77	5.50	0.82	11.65	25.59	137.48	4.41
		2	3.63	34.16	10.06	142.85	74.47	789.54	25.34
		3	3.48	6.45	0.42	5.95	31.23	72.96	2.34
		4	3.34	22.31	3.13	44.41	79.65	401.90	12.90
		1	4.95	0.87	0.25	3.49	0.00	0.00	0.00
		2	4.94	0.50	0.11	1.53	0.00	0.00	0.00

	Dcf	3	4.98	0.29	0.04	0.62	0.00	0.00	0.00
		4	4.99	27.80	8.19	116.24	76.60	812.16	26.07
		5	5.02	0.11	0.01	0.10	0.00	0.00	0.00
		6	5.04	0.70	0.10	1.40	10.76	54.30	1.74
	Df	1	24.00	4.12	0.69	9.84	36.84	222.86	2.79
		2	24.00	4.12	0.86	12.21	37.20	279.71	3.51
	Dxp	1	3.50	4.14	1.18	16.78	14.42	148.25	4.76
		2	3.65	1.71	0.39	5.52	3.30	26.92	0.86
	Ec	1	3.76	14.37	2.81	39.93	57.91	407.89	13.09
		2	3.63	14.08	1.71	24.31	59.55	260.60	8.37
		3	3.51	23.84	5.34	75.89	68.94	556.23	17.85
		4	3.38	5.69	0.63	9.01	18.60	74.73	2.40
	Ecf	1	3.45	1.69	0.30	4.25	10.77	68.60	2.20
		2	3.48	2.68	1.02	14.53	14.54	199.65	6.41
		3	3.52	0.19	0.02	0.33	0.00	0.00	0.00
		4	3.56	4.84	1.09	15.41	18.22	147.03	4.72
		5	3.64	0.19	0.02	0.34	0.00	0.00	0.00
	Ef	1	15.31	0.78	0.19	2.65	0.00	0.00	0.00
		2	15.31	300.29	52.30	742.67	310.22	1651.89	20.71
16:30-17:30	Exp	1	3.89	10.66	1.89	26.79	65.86	419.64	13.47
		2	4.03	11.40	2.12	30.07	78.45	524.77	16.84
	F	1	6.38	12.24	0.79	11.25	61.74	143.86	4.62
		2	6.43	12.95	1.07	15.18	63.37	188.21	6.04
		3	6.54	15.40	1.98	28.13	68.90	319.02	10.24
	Fc	1	19.01	16.25	2.72	38.68	67.03	404.62	6.59
		2	18.42	39.65	9.24	131.19	102.54	860.22	14.59
		3	19.22	40.26	10.61	150.65	133.85	1269.89	19.62
	Ff	1	33.09	0.37	0.05	0.77	0.00	0.00	0.00
		2	33.05	0.31	0.04	0.56	0.00	0.00	0.00
	G	1	16.06	351.82	31.28	444.23	411.51	1317.19	22.48
		2	11.45	33.31	2.48	35.19	98.48	268.42	8.62
	Gf	1	2.92	26.34	2.09	29.64	96.49	285.72	9.17
		2	2.88	0.12	0.01	0.11	0.00	0.00	0.00
	xA	1	17.34	0.41	0.09	1.26	0.00	0.00	0.00
		2	17.40	0.50	0.12	1.74	0.00	0.00	0.00
	xB	1	5.79	0.00	0.00	0.00	0.00	0.00	0.00
	xC	1	8.67	136.73	26.09	370.46	147.57	997.17	32.01
		2	8.70	25.50	4.53	64.35	78.77	490.34	15.74
	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	6.53	15.12	3.06	43.48	59.69	435.25	17.17
	E1	1	6.00	12.46	1.08	15.34	61.75	192.65	6.18
		2	6.00	15.38	2.34	33.18	68.30	373.61	11.99
	Gf1	1	3.59	0.81	0.01	0.15	3.56	1.71	0.05
	Cc2	2	10.72	33.19	8.49	120.58	98.02	902.67	11.81
		3	9.38	13.11	2.61	37.03	47.31	338.84	5.91
		4	9.94	26.98	7.20	102.25	99.86	959.62	15.30
		5	8.70	3.08	0.07	1.02	15.00	12.55	0.25
		6	7.92	0.98	0.10	1.42	0.00	0.00	0.00
	E2	3	4.00	173.93	13.75	195.19	216.82	618.60	19.86
		4	4.07	3.48	0.24	3.41	11.15	27.17	0.87
	TC5	2	2.76	4.59	0.76	10.75	25.06	148.88	1.87
		3	2.76	1.65	0.40	5.71	0.00	0.00	0.00
		4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1	11.00	86.49	23.07	327.53	185.78	1783.55	22.36

	TC9	2	11.05	16.63	2.29	32.45	83.48	412.90	5.18
		3	11.12	134.07	22.37	317.67	303.86	1825.24	22.89
	TC35	1	2.90	4.34	0.22	3.06	27.79	49.76	0.62
	TC36	1	3.03	0.46	0.07	1.03	0.00	0.00	0.00
	TC37	1	3.19	1.86	0.06	0.81	23.51	25.86	0.90
	TC38	1	1.53	3.84	0.12	1.67	48.03	52.83	1.84
	TC39	2	2.54	0.28	0.05	0.66	0.00	0.00	0.00
		3	2.40	0.50	0.12	1.74	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	40.97	2.30	32.64	114.13	230.55	8.03
		2	3.97	78.82	5.60	79.59	160.44	410.72	14.31
	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	48.58	17.54	249.09	0.00	0.00	0.00
	48	1	6.61	1.12	0.34	4.77	0.00	0.00	0.00
	49	1	3.15	322.19	105.16	1493.27	319.69	3116.90	39.08
		2	3.15	356.19	133.87	1900.94	330.18	3616.48	45.35
	50	1	5.78	269.10	106.29	1509.37	303.48	3706.61	46.48
	51	1	4.50	1.04	0.29	4.06	0.00	0.00	0.00
	53	1	10.92	15.76	0.07	0.93	74.83	11.18	0.14
	54	1	24.00	23.36	0.08	1.11	85.35	10.24	0.13

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	24.81	12.29	201.77	0.00	0.00	
		2	0.00	3.55	12.70	27.95	0.00	0.00	
		3	0.00	2.93	12.99	22.53	0.00	7.00	
		4	0.00	25.43	13.29	191.35	0.00	0.00	
	Ac	1	0.00	9.66	15.50	62.34	0.00	3.00	
		2	0.00	4.20	15.01	27.99	0.00	17.14	
		3	0.00	8.61	14.36	59.94	0.00	10.00	
	Acf	1	0.00	0.28	12.45	2.26	0.00	9.00	
		2	0.00	0.04	12.50	0.32	0.00	18.00	
	Af	1	0.00	8.45	9.63	87.78	0.00	20.69	
		2	0.00	0.05	9.59	0.48	0.00	29.00	
		3	0.00	20.50	9.62	213.21	0.00	35.75	
	B	1	0.00	2.36	16.46	14.31	0.00	0.00	
		2	0.00	6.11	16.90	36.16	0.00	0.19	
		3	0.00	26.00	17.34	149.97	0.00	0.00	
		4	0.00	9.38	17.81	52.63	0.00	1.00	
	Bc	1	0.00	14.29	23.20	61.58	0.00	16.00	
		2	0.00	10.90	22.97	47.46	0.00	12.19	
		3	0.00	19.89	22.73	87.50	0.00	6.00	
	Bcf	1	0.00	1.14	11.90	9.62	0.00	11.00	
		2	0.00	0.08	11.96	0.65	0.00	21.00	
		3	0.00	0.10	11.73	0.88	0.00	26.00	
		4	0.00	2.00	11.73	17.05	0.00	19.38	
	Bf	1	0.00	0.04	39.62	0.10	0.00	6.00	
		2	0.00	46.85	39.73	117.93	0.00	32.71	
	C	1	0.00	8.10	21.07	38.44	0.00	0.00	
		2	0.00	5.26	21.28	24.73	0.00	0.73	
		3	0.00	4.11	21.63	19.03	0.00	0.00	
	Cf	1	0.00	0.03	25.15	0.14	0.00	0.00	
		2	0.00	0.08	25.37	0.30	0.00	0.00	
		1	0.00	6.04	9.57	63.19	0.00	0.00	

	D	2	0.00	2.67	9.57	27.92	0.00	0.00	
		3	0.00	4.17	9.75	42.77	0.00	0.00	
		4	0.00	6.08	10.39	58.47	0.00	0.00	
	Dc	1	0.00	2.54	8.74	29.04	0.00	8.00	
		2	0.00	13.78	8.41	163.87	0.00	1.05	
		3	0.00	2.35	8.07	29.07	0.00	12.00	
		4	0.00	6.55	7.74	84.66	0.00	12.00	
	Dcf	1	0.00	0.25	11.47	2.14	0.00	17.00	
		2	0.00	0.11	11.46	0.94	0.00	30.00	
		3	0.00	0.04	11.54	0.38	0.00	14.00	
		4	0.00	14.06	11.58	121.40	0.00	28.82	
		5	0.00	0.01	11.64	0.06	0.00	22.00	
		6	0.00	2.37	11.68	20.28	0.00	36.97	
	Df	1	0.00	4.03	34.78	11.59	0.00	0.00	
		2	0.00	5.20	34.78	14.96	0.00	0.00	
	Dxp	1	0.00	2.57	8.11	31.75	0.00	5.00	
		2	0.00	0.46	8.46	5.40	0.00	7.00	
	Ec	1	0.00	6.97	8.71	80.03	0.00	2.00	
		2	0.00	4.27	8.42	50.65	0.00	7.00	
		3	0.00	9.38	8.13	115.27	0.00	0.00	
		4	0.00	2.48	7.85	31.60	0.00	12.00	
	Ecf	1	0.00	2.43	7.99	30.47	0.00	21.88	
		2	0.00	5.81	8.06	72.07	0.00	10.78	
		3	0.00	0.02	8.16	0.28	0.00	22.00	
		4	0.00	3.00	8.26	36.26	0.00	27.78	
		5	0.00	0.02	8.44	0.28	0.00	38.00	
	Ef	1	0.00	0.19	22.18	0.84	0.00	0.00	
		2	0.00	58.60	22.18	264.17	0.00	43.18	
16:30-17:30	Exp	1	0.00	7.03	9.01	78.02	0.00	6.00	
		2	0.00	9.05	9.34	96.90	0.00	21.00	
	F	1	0.00	2.48	14.80	16.74	0.00	0.00	
		2	0.00	3.14	14.91	21.07	0.00	0.00	
		3	0.00	5.40	15.17	35.57	0.00	0.00	
	Fc	1	0.00	6.75	31.34	21.53	0.00	3.00	
		2	0.00	16.43	31.03	52.93	0.00	4.64	
		3	0.00	21.12	30.83	68.52	0.00	1.39	
	Ff	1	0.00	0.05	47.95	0.11	0.00	0.00	
		2	0.00	0.04	47.89	0.08	0.00	0.00	
	G	1	0.00	35.53	27.16	130.83	0.00	6.63	
		2	0.00	4.55	26.54	17.14	0.00	5.59	
	Gf	1	0.00	4.68	6.76	69.22	0.00	50.49	
		2	0.00	0.01	6.69	0.12	0.00	40.00	
	xA	1	0.00	0.09	40.21	0.22	0.00	11.00	
		2	0.00	0.12	40.35	0.30	0.00	36.00	
	xB	1	0.00	0.00	13.42	0.00	0.00	0.00	
	xC	1	0.00	33.11	20.10	164.67	0.00	38.64	
		2	0.00	12.80	20.17	63.47	0.00	39.50	
	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	18.00	
	xE	1	0.00	0.00	30.24	0.00	0.00	15.00	
		2	0.00	0.00	30.23	0.00	0.00	26.00	
	xF	1	0.00	0.00	28.27	0.00	0.00	1.00	
	Cc1	1	0.00	8.46	16.67	50.75	0.00	4.00	
	E1	1	0.00	3.22	13.91	23.13	0.00	0.00	
		2	0.00	6.25	13.91	44.89	0.00	0.00	
	Gf1	1	0.00	0.03	8.32	0.40	0.00	45.89	
		2	0.00	14.69	15.76	93.25	0.00	4.21	
		3	0.00	7.72	15.54	49.69	0.00	3.00	

	Cc2	4	0.00	16.87	15.78	106.94	0.00	0.00	
		5	0.00	0.21	15.37	1.36	0.00	8.00	
		6	0.00	0.10	15.30	0.65	0.00	19.00	
	E2	3	0.00	14.72	9.27	158.89	0.00	18.04	
		4	0.00	0.43	9.45	4.51	0.00	6.00	
	TC5	2	0.00	2.48	4.01	61.97	0.00	12.00	
		3	0.00	0.40	4.00	10.04	0.00	16.00	
		4	0.00	0.00	4.25	0.00	0.00	0.00	
	TC9	1	0.00	30.95	15.95	194.06	0.00	3.08	
		2	0.00	6.88	16.02	42.97	0.00	11.00	
		3	0.00	27.72	16.12	171.94	0.00	14.49	
	TC35	1	0.00	1.46	4.20	34.77	0.00	20.00	
	TC36	1	0.00	0.07	4.39	1.66	0.00	0.00	
	TC37	1	0.00	0.43	7.71	5.59	0.00	0.00	
	TC38	1	0.00	2.46	3.71	66.36	0.00	14.00	
	TC39	2	0.00	0.05	6.13	0.76	0.00	32.00	
		3	0.00	0.12	5.79	2.12	0.00	36.00	
	TC40	2	0.00	0.00	10.22	0.00	0.00	10.00	
		3	0.00	0.00	9.71	0.00	0.00	28.00	
	TC41	1	0.00	3.91	9.50	41.15	0.00	0.00	
		2	0.00	7.58	9.58	79.19	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	60.00	
	47	1	0.00	17.54	23.24	75.48	0.00	0.00	
	48	1	0.00	0.34	9.59	3.50	0.00	0.00	
	49	1	0.00	118.35	4.56	2593.14	0.00	29.21	
		2	0.00	148.87	4.56	3261.81	0.00	25.41	
	50	1	0.00	123.27	8.37	1472.20	0.00	21.43	
	51	1	0.00	0.29	6.52	4.38	0.00	0.00	
	53	1	0.00	0.20	15.83	1.24	0.00	7.00	
	54	1	0.00	0.17	34.78	0.50	0.00	7.00	

Traffic Stream Results: Advanced

Time Segment	Arm	Traffic Stream	Degree of saturation penalty (£ per hr)	Ped gap accepting penalty (£ per hr)	Warmed up	Mean Max Queue EoTS (PCU)	Max End of Green Queue EoTS (PCU)	Max End of Red Queue EoTS (PCU)	PCU Factor	Cost of traffic penalties (£ per hr)	Performance Index (£ per hr)
	A	1	0.00	0.00	✓	30.73	19.78	28.49	1.00	0.00	314.33
		2	0.00	0.00	✓	3.55	0.16	3.55	1.00	0.00	31.85
		3	0.00	0.00	✓	2.93	0.61	2.79	1.00	0.00	26.60
		4	0.00	0.00	✓	31.35	20.01	31.35	1.00	0.00	338.27
	Ac	1	0.00	0.00	✓	9.69	2.14	9.15	1.00	0.00	99.83
		2	0.00	0.00	✓	4.20	0.06	4.04	1.00	0.00	16.96
		3	0.00	0.00	✓	8.61	0.29	8.00	1.00	0.00	51.41
	Acf	1	0.00	0.00	✓	0.28			1.00	0.00	4.00
		2	0.00	0.00	✓	0.04			1.00	0.00	0.57
	Af	1	0.00	0.00	✓	8.45			1.00	0.00	19.63
		2	0.00	0.00	✓	0.05			1.00	0.00	0.65
		3	0.00	0.00	✓	24.57			1.00	0.00	220.68
	B	1	0.00	0.00	✓	2.36	0.04	1.16	1.00	0.00	8.23
		2	0.00	0.00	✓	6.15	1.48	5.48	1.00	0.00	52.97
		3	0.00	0.00	✓	30.24	21.13	30.24	1.00	0.00	360.30
		4	0.00	0.00	✓	9.64	3.52	9.63	1.00	0.00	88.17
	Bc	1	0.00	0.00	✓	14.29	0.36	5.09	1.00	0.00	48.08
		2	0.00	0.00	✓	10.90	0.74	7.93	1.00	0.00	75.32
		3	0.00	0.00	✓	19.90	1.32	14.12	1.00	0.00	126.62
	Bcf	1	0.00	0.00	✓	1.15			1.00	0.00	16.26
		2	0.00	0.00	✓	0.08			1.00	0.00	1.10
		3	0.00	0.00	✓	0.10			1.00	0.00	1.46

		4	0.00	0.00	✓	2.00			1.00	0.00	2.80
	Bf	1	0.00	0.00	✓	0.04			1.00	0.00	0.54
		2	0.00	0.00	✓	48.24			1.00	0.00	438.90
	C	1	0.00	0.00	✓	8.13	1.61	7.59	1.00	0.00	64.98
		2	0.00	0.00	✓	5.26	0.49	4.97	1.00	0.00	37.11
		3	0.00	0.00	✓	4.12	0.29	3.96	1.00	0.00	28.53
	Cf	1	0.00	0.00	✓	0.03			1.00	0.00	0.48
		2	0.00	0.00	✓	0.08			1.00	0.00	1.08
	D	1	0.00	0.00	✓	6.05	0.68	5.70	1.00	0.00	46.05
		2	0.00	0.00	✓	2.67	0.11	2.57	1.00	0.00	17.75
		3	0.00	0.00	✓	4.17	0.22	4.07	1.00	0.00	28.90
		4	0.00	0.00	✓	6.08	0.55	5.77	1.00	0.00	44.70
	Dc	1	0.00	0.00	✓	2.54	0.22	2.29	1.00	0.00	16.06
		2	0.00	0.00	✓	14.50	7.55	14.50	1.00	0.00	168.19
		3	0.00	0.00	✓	2.35	0.03	1.22	1.00	0.00	8.29
		4	0.00	0.00	✓	6.55	0.18	6.31	1.00	0.00	57.31
	Dcf	1	0.00	0.00	✓	0.25			1.00	0.00	3.49
		2	0.00	0.00	✓	0.11			1.00	0.00	1.53
		3	0.00	0.00	✓	0.04			1.00	0.00	0.62
		4	0.00	0.00	✓	14.61			1.00	0.00	142.31
		5	0.00	0.00	✓	0.01			1.00	0.00	0.10
		6	0.00	0.00	✓	2.37			1.00	0.00	3.14
	Df	1	0.00	0.00	✓	4.03	0.17	2.86	1.00	0.00	12.64
		2	0.00	0.00	✓	5.20	0.19	3.53	1.00	0.00	15.72
	Dxp	1	0.00	0.00	✓	2.58	0.90	2.55	1.00	0.00	21.54
		2	0.00	0.00	✓	0.46	0.37	0.46	1.00	0.00	6.38
	Ec	1	0.00	0.00	✓	6.99	1.43	6.00	1.00	0.00	53.02
		2	0.00	0.00	✓	4.27	0.20	4.27	1.00	0.00	32.68
		3	0.00	0.00	✓	9.43	2.48	9.43	1.00	0.00	93.75
		4	0.00	0.00	✓	2.48	0.16	1.25	1.00	0.00	11.41
	Ecf	1	0.00	0.00	✓	2.43			1.00	0.00	6.46
		2	0.00	0.00	✓	5.81			1.00	0.00	20.94
		3	0.00	0.00	✓	0.02			1.00	0.00	0.33
		4	0.00	0.00	✓	3.00			1.00	0.00	20.13
		5	0.00	0.00	✓	0.02			1.00	0.00	0.34
	Ef	1	0.00	0.00	✓	0.19			1.00	0.00	2.65
		2	0.00	0.00		105.94			1.00	0.00	763.38
16:30-17:30	Exp	1	0.00	0.00	✓	7.03	0.19	6.89	1.00	0.00	40.26
		2	0.00	0.00	✓	9.05	0.22	7.74	1.00	0.00	46.91
	F	1	0.00	0.00	✓	2.48	0.05	2.35	1.00	0.00	15.87
		2	0.00	0.00	✓	3.14	0.09	3.06	1.00	0.00	21.22
		3	0.00	0.00	✓	5.40	0.30	5.02	1.00	0.00	38.37
	Fc	1	0.00	0.00	✓	6.75	0.43	6.61	1.00	0.00	45.28
		2	0.00	0.00	✓	16.52	3.63	14.15	1.00	0.00	145.78
		3	0.00	0.00	✓	21.81	7.14	19.89	1.00	0.00	170.27
	Ff	1	0.00	0.00	✓	0.05			1.00	0.00	0.77
		2	0.00	0.00	✓	0.04			1.00	0.00	0.56
	G	1	0.00	0.00		39.23	31.30	39.15	1.00	0.00	466.71
		2	0.00	0.00		4.55	0.26	4.52	1.00	0.00	43.80
	Gf	1	0.00	0.00		4.68			1.00	0.00	38.81
		2	0.00	0.00		0.01			1.00	0.00	0.11
	xA	1	0.00	0.00	✓	0.09			1.00	0.00	1.26
		2	0.00	0.00	✓	0.12			1.00	0.00	1.74
	xB	1	0.00	0.00	✓	0.00			1.00	0.00	0.00
	xC	1	0.00	0.00		41.60			1.00	0.00	402.47
		2	0.00	0.00		13.00			1.00	0.00	80.09
	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	✓	8.46	0.76	5.94	1.00	0.00	60.66
	E1	1	0.00	0.00	✓	3.22	0.09	3.13	1.00	0.00	21.52
		2	0.00	0.00	✓	6.25	0.39	5.85	1.00	0.00	45.18
	Gf1	1	0.00	0.00		0.03			1.00	0.00	0.21
	Cc2	2	0.00	0.00	✓	14.82	3.69	14.07	1.00	0.00	132.39
		3	0.00	0.00	✓	7.73	0.81	5.11	1.00	0.00	42.94
		4	0.00	0.00	✓	17.00	3.62	11.29	1.00	0.00	117.56
		5	0.00	0.00	✓	0.21	0.00	0.21	1.00	0.00	1.26
		6	0.00	0.00	✓	0.10	0.10	0.10	1.00	0.00	1.42
	E2	3	0.00	0.00		18.01	17.68	18.01	1.00	0.00	215.05
		4	0.00	0.00		0.43	0.05	0.42	1.00	0.00	4.28
	TC5	2	0.00	0.00	✓	2.48	0.13	2.43	1.00	0.00	12.61
		3	0.00	0.00	✓	0.40	0.40	0.40	1.00	0.00	5.71
		4	0.00	0.00	✓	0.00	0.00	0.00	1.00	0.00	0.00
	TC9	1	0.00	0.00	✓	37.36	24.12	37.32	1.00	0.00	349.89
		2	0.00	0.00	✓	6.88	0.19	6.74	1.00	0.00	37.63
		3	0.00	0.00	✓	32.79	25.76	32.77	1.00	0.00	340.55
	TC35	1	0.00	0.00	✓	1.46	0.01	0.79	1.00	0.00	3.69
	TC36	1	0.00	0.00	✓	0.07			1.00	0.00	1.03
	TC37	1	0.00	0.00	✓	0.43	0.00	0.43	1.00	0.00	1.71
	TC38	1	0.00	0.00	✓	2.46			1.00	0.00	3.51
	TC39	2	0.00	0.00	✓	0.05			1.00	0.00	0.66
		3	0.00	0.00	✓	0.12			1.00	0.00	1.74
	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	✓	3.93	0.95	3.87	1.00	0.00	40.67
		2	0.00	0.00	✓	8.17	4.40	8.10	1.00	0.00	93.89
	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		25.00			1.00	0.00	249.09
	48	1	0.00	0.00	✓	0.34			1.00	0.00	4.77
	49	1	0.00	0.00	✓	218.41			1.00	0.00	1532.35
		2	0.00	0.00	✓	277.74			1.00	0.00	1946.28
	50	1	0.00	0.00	✓	223.65			1.00	0.00	1555.85
	51	1	0.00	0.00	✓	0.29			1.00	0.00	4.06
	53	1	0.00	0.00	✓	0.20	0.00	0.20	1.00	0.00	1.07
	54	1	0.00	0.00	✓	0.17	0.00	0.17	1.00	0.00	1.23

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)
16:30-17:30	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	29	0.00	0.00	0.00	0.00
		2	0	0	11000	29	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	23	0.00	0.00	0.00	0.00
		2	0	0	11000	23	0.00	0.00	0.00	0.00
	5	1	0	0	11000	23	0.00	0.00	0.00	0.00
		2	0	0	11000	23	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	20	0.00	0.00	0.00	0.00
		2	0	0	11000	20	0.00	0.00	0.00	0.00
	8	1	0	0	11000	33	0.00	0.00	0.00	0.00
		2	0	0	11000	33	0.00	0.00	0.00	0.00
	9	1	0	0	11000	12	0.00	0.00	0.00	0.00
		2	0	0	11000	12	0.00	0.00	0.00	0.00
	10	1	0	0	11000	17	0.00	0.00	0.00	0.00
		2	0	0	11000	17	0.00	0.00	0.00	0.00
	11	1	0	0	11000	28	0.00	0.00	0.00	0.00
		2	0	0	11000	28	0.00	0.00	0.00	0.00
	12	1	0	0	11000	28	0.00	0.00	0.00	0.00
		2	0	0	11000	28	0.00	0.00	0.00	0.00
	13	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
	14	1	0	0	11000	39	0.00	0.00	0.00	0.00
		2	0	0	11000	39	0.00	0.00	0.00	0.00
	15	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
	16	1	0	0	11000	9	0.00	0.00	0.00	0.00
		2	0	0	11000	9	0.00	0.00	0.00	0.00
	17	1	0	0	11000	5	0.00	0.00	0.00	0.00
		2	0	0	11000	5	0.00	0.00	0.00	0.00
	18	1	0	0	11000	16	0.00	0.00	0.00	0.00
		2	0	0	11000	16	0.00	0.00	0.00	0.00
	19	1	0	0	11000	16	0.00	0.00	0.00	0.00
		2	0	0	11000	16	0.00	0.00	0.00	0.00
	20	1	0	0	11000	18	0.00	0.00	0.00	0.00
		2	0	0	11000	18	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))
16:30-17:30	1	1	0	0	0		11000	1833	0		Unrestricted	0.00	7
		2	0	0	0		11000	1833	0		Unrestricted	0.00	7
	2	1	0	0	0		11000	5867	0		Unrestricted	0.00	29
		2	0	0	0		11000	5867	0		Unrestricted	0.00	29
	3	1	0	0	0		11000	2017	0		Unrestricted	0.00	8
		2	0	0	0		11000	2017	0		Unrestricted	0.00	8
	4	1	0	0	0		11000	4767	0		Unrestricted	0.00	23
		2	0	0	0		11000	4767	0		Unrestricted	0.00	23
	5	1	0	0	0		11000	4767	0		Unrestricted	0.00	23
		2	0	0	0		11000	4767	0		Unrestricted	0.00	23
	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	4217	0		Unrestricted	0.00	20
		2	0	0	0		11000	4217	0		Unrestricted	0.00	20
	8	1	0	0	0		11000	6600	0		Unrestricted	0.00	33
		2	0	0	0		11000	6600	0		Unrestricted	0.00	33
	9	1	0	0	0		11000	2750	0		Unrestricted	0.00	12
		2	0	0	0		11000	2750	0		Unrestricted	0.00	12
	10	1	0	0	0		11000	3667	0		Unrestricted	0.00	17
		2	0	0	0		11000	3667	0		Unrestricted	0.00	17
	11	1	0	0	0		11000	5683	0		Unrestricted	0.00	28
		2	0	0	0		11000	5683	0		Unrestricted	0.00	28
	12	1	0	0	0		11000	5683	0		Unrestricted	0.00	28
		2	0	0	0		11000	5683	0		Unrestricted	0.00	28
	13	1	0	0	0		11000	2567	0		Unrestricted	0.00	11
		2	0	0	0		11000	2567	0		Unrestricted	0.00	11
	14	1	0	0	0		11000	7700	0		Unrestricted	0.00	39
		2	0	0	0		11000	7700	0		Unrestricted	0.00	39
	15	1	0	0	0		0	0	0		-100	0.00	0
		2	0	0	0		0	0	0		-100	0.00	0
	16	1	0	0	0		11000	2200	0		Unrestricted	0.00	9
		2	0	0	0		11000	2200	0		Unrestricted	0.00	9
	17	1	0	0	0		11000	1467	0		Unrestricted	0.00	5
		2	0	0	0		11000	1467	0		Unrestricted	0.00	5
	18	1	0	0	0		11000	3483	0		Unrestricted	0.00	16
		2	0	0	0		11000	3483	0		Unrestricted	0.00	16
	19	1	0	0	0		11000	3483	0		Unrestricted	0.00	16
		2	0	0	0		11000	3483	0		Unrestricted	0.00	16
	20	1	0	0	0		11000	3850	0		Unrestricted	0.00	18
		2	0	0	0		11000	3850	0		Unrestricted	0.00	18

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)
16:30-17:30	(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)
16:30-17:30	(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)
16:30-17:30	(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
2	20/07/2021 00:01:22	20/07/2021 00:01:34	16:30	60	12468.23	807.15	123.53	49/2	19	12	TC5/4	49/2	TC5

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)
16:30-17:30	124	-100	74551	4883	38.98	11461.52	1006.71	12468.23

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)
16:30-17:30	0	0	684	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))
16:30-17:30	74551	73788	5722	✓	124	✓	-100	5567

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)
16:30-17:30	8.39	38.98	807.15	11461.52	67.76	48108.67	1006.71

Network Results: Queues and blocking

Time Segment	Utilised storage (%)	Excess queue penalty (£ per hr)	Wasted time total (s (per cycle))
16:30-17:30	3261.81	0.00	1469.87

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)
16:30-17:30	0.00	0.00		1.00	0.00	0.00	12468.23

Point to Point Journey Time

Average Journey Time (s) for Local Matrix: 1

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	687.3	497.5	388.1	774.3	733.7	747.7	676.9	0.0
	B28	205.9	0.0	104.5	168.6	133.6	154.9	186.7	0.0
	C28	164.7	439.7	0.0	85.9	76.1	124.4	152.1	0.0
	D28	110.2	288.5	188.8	0.0	256.1	90.7	99.0	0.0
	E28	151.8	807.9	235.0	46.7	0.0	87.3	95.7	0.0
	F28	165.6	287.1	284.5	427.1	400.3	0.0	18.1	0.0
	G28	534.6	653.5	597.2	855.0	825.6	820.1	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)

32	C28	E28	98	75.54	98	75.54
36	C28	E28	0	0.00	0	0.00
41	E28	A28	453	151.90	453	151.90
49	C28	D28	313	85.93	313	85.93
50	E28	D28	114	46.74	114	46.74
68	E28	G28	156	94.72	156	94.72
81	G28	B28	157	709.78	157	709.78
82	G28	B28	157	597.70	157	597.70
83	G28	B28	4	636.81	4	636.81
84	G28	B28	0	0.00	0	0.00
85	D28	B28	146	341.62	146	341.62
86	D28	B28	146	229.36	146	229.36
87	D28	B28	44	354.75	44	354.75
88	D28	B28	43	240.98	43	240.98
89	H28	B28	0	0.00	0	0.00
90	H28	B28	0	0.00	0	0.00
91	C28	F28	21	124.38	21	124.38
92	E28	F28	10	87.26	10	87.26
100	E28	B28	292	473.68	292	473.68
102	A28	C28	60	377.75	60	377.75
104	C28	G28	137	131.83	137	131.83
107	A28	B28	27	440.39	27	440.39
109	C28	G28	323	162.65	323	162.65
110	E28	G28	8	114.35	8	114.35
111	G28	G28	0	0.00	0	0.00
112	F28	G28	110	18.14	110	18.14
113	F28	A28	162	165.58	162	165.58
114	C28	H28	0	0.00	0	0.00
115	B28	C28	4	101.95	4	101.95
116	G28	G28	0	0.00	0	0.00
117	G28	F28	2	674.43	2	674.43
118	G28	G28	0	0.00	0	0.00
124	H28	F28	0	0.00	0	0.00
125	H28	A28	0	0.00	0	0.00
128	F28	F28	0	0.00	0	0.00
129	F28	H28	0	0.00	0	0.00
130	G28	G28	0	0.00	0	0.00
131	G28	G28	0	0.00	0	0.00
132	H28	H28	0	0.00	0	0.00
133	F28	H28	0	0.00	0	0.00
137	H28	G28	0	0.00	0	0.00
138	H28	G28	0	0.00	0	0.00
140	B28	G28	119	214.89	119	214.89
141	B28	H28	0	0.00	0	0.00
142	C28	H28	0	0.00	0	0.00
143	E28	H28	0	0.00	0	0.00
144	B28	B28	0	0.00	0	0.00
145	B28	B28	0	0.00	0	0.00
147	G28	C28	611	509.91	611	509.91
148	G28	C28	0	0.00	0	0.00
149	A28	E28	40	434.56	40	434.56
150	E28	B28	335	1099.30	335	1099.30
151	E28	C28	47	235.23	47	235.23
152	C28	G28	10	159.88	10	159.88
153	C28	F28	0	0.00	0	0.00
154	E28	A28	24	150.49	24	150.49
155	C28	H28	0	0.00	0	0.00
156	H28	D28	0	0.00	0	0.00

157	H28	E28	0	0.00	0	0.00
158	F28	D28	88	427.12	88	427.12
159	F28	E28	44	418.23	44	418.23
160	F28	E28	44	382.30	44	382.30
162	B28	F28	13	154.87	13	154.87
164	C28	A28	0	0.00	0	0.00
166	B28	C28	99	104.61	99	104.61
168	G28	A28	793	534.63	793	534.63
170	C28	B28	0	0.00	0	0.00
171	G28	H28	0	0.00	0	0.00
185	A28	B28	27	554.59	27	554.59
186	A28	C28	351	389.91	351	389.91
195	D28	G28	173	99.04	173	99.04
196	D28	F28	60	90.72	60	90.72
198	D28	A28	5	110.17	5	110.17
234	C28	G28	36	132.73	36	132.73
235	E28	G28	0	0.00	0	0.00
236	E28	H28	0	0.00	0	0.00
255	C28	A28	0	0.00	0	0.00
291	C28	A28	381	164.72	381	164.72
294	C28	B28	24	678.52	24	678.52
295	C28	B28	24	200.89	24	200.89
296	D28	G28	0	0.00	0	0.00
297	D28	H28	0	0.00	0	0.00
299	A28	G28	424	675.04	424	675.04
300	A28	H28	0	0.00	0	0.00
301	A28	A28	2	690.22	2	690.22
302	A28	A28	2	684.47	2	684.47
312	B28	G28	119	162.32	119	162.32
313	B28	G28	19	163.22	19	163.22
314	B28	H28	0	0.00	0	0.00
323	B28	D28	178	168.60	178	168.60
324	B28	E28	166	162.33	166	162.33
343	B28	A28	0	0.00	0	0.00
344	B28	A28	19	205.90	19	205.90
345	B28	E28	347	119.83	347	119.83
356	A28	G28	0	0.00	0	0.00
357	A28	F28	60	747.66	60	747.66
358	A28	G28	10	755.99	10	755.99
359	A28	H28	0	0.00	0	0.00
406	G28	A28	0	0.00	0	0.00
410	C28	E28	2	104.02	2	104.02
411	C28	D28	0	0.00	0	0.00
412	C28	E28	0	0.00	0	0.00
413	C28	G28	0	0.00	0	0.00
417	C28	G28	0	0.00	0	0.00
418	C28	H28	0	0.00	0	0.00
419	C28	A28	0	0.00	0	0.00
423	C28	B28	0	0.00	0	0.00
424	F28	B28	20	342.94	20	342.94
425	F28	B28	20	231.25	20	231.25
432	G28	F28	27	830.93	27	830.93
433	G28	G28	0	0.00	0	0.00
436	H28	H28	0	0.00	0	0.00
437	G28	C28	50	544.63	50	544.63
438	G28	C28	10	466.48	10	466.48
439	C28	C28	0	0.00	0	0.00
440	C28	C28	0	0.00	0	0.00

441	C28	C28	0	0.00	0	0.00
442	C28	C28	0	0.00	0	0.00
443	C28	C28	0	0.00	0	0.00
444	C28	C28	0	0.00	0	0.00
445	E28	C28	0	0.00	0	0.00
446	E28	C28	0	0.00	0	0.00
447	E28	C28	0	0.00	0	0.00
448	D28	C28	0	0.00	0	0.00
449	D28	C28	0	0.00	0	0.00
450	H28	C28	0	0.00	0	0.00
451	F28	C28	0	0.00	0	0.00
465	G28	D28	141	855.02	141	855.02
466	G28	E28	125	846.48	125	846.48
467	G28	D28	0	0.00	0	0.00
468	G28	E28	0	0.00	0	0.00
469	A28	D28	13	774.29	13	774.29
470	A28	E28	406	763.20	406	763.20
471	E28	E28	1	0.00	1	0.00
472	D28	D28	0	0.00	0	0.00
473	D28	E28	9	273.10	9	273.10
474	G28	C28	324	774.06	324	774.06
475	G28	E28	125	807.32	125	807.32
476	G28	C28	0	0.00	0	0.00
477	G28	E28	2	667.83	2	667.83
478	C28	C28	0	0.00	0	0.00
479	C28	C28	0	0.00	0	0.00
480	E28	C28	47	234.68	47	234.68
481	E28	E28	1	0.00	1	0.00
482	D28	C28	120	187.56	120	187.56
483	D28	E28	9	239.00	9	239.00
484	H28	C28	0	0.00	0	0.00
485	H28	E28	0	0.00	0	0.00
486	F28	C28	40	359.78	40	359.78
487	C28	C28	0	0.00	0	0.00
488	C28	C28	0	0.00	0	0.00
489	D28	C28	238	189.36	238	189.36
490	H28	C28	0	0.00	0	0.00
491	F28	C28	40	209.25	40	209.25

Final Prediction Table

Traffic Stream Results

				SIGNALS		FLOWS		PERFORMANCE				PER PCU			QUEUES
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	820 <	2050	23	0.00	100	-10	89.51	84.21	159.43	24.81 +
	2	(untitled)	6	771-2	E	354	2050	23	0.00	43	109	23.35	17.87	60.92	3.55
	3	(untitled)	6	771-2	E	535	2050	23	7.00	65	38	15.67	10.07	31.26	2.93
	4	(untitled)	6	771-2	E	820 <	2050	23	0.00	100	-10	97.00	91.27	163.58	25.43 +
Ac	1	(untitled)	6	771-2	D	885	2263	27	3.00	84	7	29.97	23.29	65.06	9.66
	2	(untitled)	6	771-2	D	292	2263	27	17.14	30	201	19.75	10.88	88.82	4.20
	3	(untitled)	6	771-2	D	557	2263	27	10.00	53	71	22.09	15.89	92.24	8.61
Acf	1	(untitled)	6			1177	2263	60	9.00	52	73	6.23	0.86	0.00	0.28
	2	(untitled)	6			557	2263	60	18.00	25	266	7.65	0.26	0.00	0.04
	1	(untitled)	6			1174	2050	60	20.69	62	45	10.05	3.41	26.19	8.45

Af	**2**	(untitled)	6			535	2050	60	29.00	26	245	6.93	0.31	0.00	0.05
	3	(untitled)	6			820 <	2050	60	35.75	99	-9	70.48	63.84	137.89	20.50 +
B	**1**	(untitled)	1	769-1	B	98	2050	11	0.00	24	277	22.62	15.52	71.17	2.36
	2	(untitled)	1	769-1	B	336	2150	11	0.19	79	13	39.24	31.95	98.78	6.11
	3	(untitled)	1	769-1	B	420 <	2100	11	0.00	100	-10	200.25	192.77	303.72	26.00 +
	4	(untitled)	1	769-1	B	368	2050	11	1.00	90	0	68.44	56.15	146.56	9.38
Bc	**1**	(untitled)	1	769-1	A	733	2050	37	16.00	56	59	21.21	11.20	66.79	14.29
	2	(untitled)	1	769-1	A	820	2050	37	12.19	65	38	26.77	16.86	79.06	10.90
	3	(untitled)	1	769-1	A	1005	2050	37	6.00	77	16	33.42	23.62	102.28	19.89
Bcf	**1**	(untitled)	1			1705	2263	60	11.00	75	19	7.13	2.42	0.00	1.14
	2	(untitled)	1			733	2263	60	21.00	32	178	6.14	0.38	0.00	0.08
	3	(untitled)	1			820	2263	60	26.00	36	148	6.59	0.45	0.00	0.10
	4	(untitled)	1			1005	2263	60	19.38	45	101	7.26	0.65	1.09	2.00
Bf	**1**	(untitled)	1			434	1800	60	6.00	24	273	27.65	0.32	0.00	0.04
	2	(untitled)	1			788 <	1800	60	32.71	96	-6	157.95	130.54	337.87	46.85 +
C	**1**	(untitled)	2	769-2	G	450	2100	15	0.00	80	12	47.75	33.21	106.90	8.10
	2	(untitled)	2	769-2	G	344	2200	15	0.73	61	46	39.08	24.39	92.93	5.26
	3	(untitled)	2	769-2	G	287	2050	15	0.00	53	71	37.39	22.47	85.94	4.11
Cf	**1**	(untitled)	2			450	1965	60	0.00	23	293	17.62	0.27	0.00	0.03
	2	(untitled)	2			631	1965	60	0.00	32	180	17.94	0.43	0.00	0.08
D	**1**	(untitled)	3	770-1	B	413	2050	17	0.00	67	34	25.37	21.24	86.30	6.04
	2	(untitled)	3	770-1	B	204	1850	17	0.00	37	145	19.94	15.81	76.78	2.67
	3	(untitled)	3	770-1	B	323	2250	17	0.00	48	88	20.60	16.40	77.25	4.17
	4	(untitled)	3	770-1	B	429	2250	17	0.00	64	42	24.05	19.57	84.15	6.08
Dc	**1**	(untitled)	3	770-1	A	537	2100	31	8.00	48	88	9.27	5.50	25.59	2.54
	2	(untitled)	3	770-1	A	1060 <	2100	31	1.05	95	-5	37.78	34.16	74.47	13.78 +
	3	(untitled)	3	770-1	A	234	2100	31	12.00	21	331	9.93	6.45	31.23	2.35
	4	(untitled)	3	770-1	A	505	2100	31	12.00	45	100	25.65	22.31	79.65	6.55
Dcf	**1**	(untitled)	3			1020	2050	60	17.00	50	81	5.81	0.87	0.00	0.25
	2	(untitled)	3			775	2100	60	30.00	37	144	5.44	0.50	0.00	0.11
	3	(untitled)	3			537	2100	60	14.00	26	252	5.27	0.29	0.00	0.04
	4	(untitled)	3			1060 <	2100	60	28.82	94	-4	32.79	27.80	76.60	14.06 +
	5	(untitled)	3			234	2100	60	22.00	11	709	5.12	0.11	0.00	0.01
	6	(untitled)	3			505	2100	60	36.97	27	237	5.74	0.70	10.76	2.37
Df	**1**	(untitled)	3-2	11	B	605	1900	43	0.00	43	107	28.12	4.12	36.84	4.03
	2	(untitled)	3-2	11	B	752	2250	43	0.00	46	97	28.12	4.12	37.20	5.20
Dxp	**1**	(untitled)	3-2	770-2	D	1028	2050	41	5.00	72	26	7.63	4.14	14.42	2.57
	2	(untitled)	3-2	770-2	D	816	2050	41	7.00	57	58	5.36	1.71	3.30	0.46
Ec	**1**	(untitled)	4	770-3	F	704	2150	24	2.00	79	14	18.13	14.37	57.91	6.97
	2	(untitled)	4	770-3	F	438	2263	24	7.00	46	94	17.72	14.08	59.55	4.27
	3	(untitled)	4	770-3	F	807 <	2263	24	0.00	86	5	27.35	23.84	68.94	9.38 +
	4	(untitled)	4	770-3	F	402	2250	24	12.00	43	110	9.07	5.69	18.60	2.48
Ecf	**1**	(untitled)	4			637	2100	60	21.88	38	138	5.14	1.69	10.77	2.43
	2	(untitled)	4			1373	2100	60	10.78	70	29	6.16	2.68	14.54	5.81
	3	(untitled)	4			438	2263	60	22.00	19	365	3.71	0.19	0.00	0.02
	4	(untitled)	4			807	2300	60	27.78	58	55	8.40	4.84	18.22	3.00
	5	(untitled)	4			450	2300	60	38.00	20	360	3.83	0.19	0.00	0.02
Ef	**1**	(untitled)	4			859	1900	60	0.00	45	99	16.09	0.78	0.00	0.19
	2	(untitled)	4			627 <	1900	60	43.18	118	-24	315.60	300.29	310.22	58.60 +
Exp	**1**	(untitled)	4-2	770-4	L	637	2050	40	6.00	45	98	14.54	10.66	65.86	7.03
	2	(untitled)	4-2	770-4	L	669	2050	40	21.00	48	88	15.42	11.40	78.45	9.05
F	**1**	(untitled)	5	771-1	B	233	2100	24	0.00	27	238	18.63	12.24	61.74	2.48
	2	(untitled)	5	771-1	B	297	2100	24	0.00	34	165	19.38	12.95	63.37	3.14
	3	(untitled)	5	771-1	B	463	2100	24	0.00	53	70	21.94	15.40	68.90	5.40
Fc	**1**	(untitled)	5	771-1	A	604	2263	26	3.00	59	52	35.26	16.25	67.03	6.75
	2	(untitled)	5	771-1	A	839	2263	26	4.64	88	3	58.06	39.65	102.54	16.43
	3	(untitled)	5	771-1	A	949	2263	26	1.39	95	-5	59.48	40.26	133.85	21.12

Ff	**1**	(untitled)	5			530	1900	60	0.00	28	223	33.45	0.37	0.00	0.05
	2	(untitled)	5			463	1900	60	0.00	24	269	33.35	0.31	0.00	0.04
G	**1**	(untitled)	2	769-2	F	320 <	2050	15	6.63	100	-10	367.88	351.82	411.51	35.53 +
	2	(untitled)	2	769-2	F	268	2050	15	5.59	51	77	44.76	33.31	98.48	4.55
Gf	**1**	(untitled)	4			285	2050	60	50.49	32	186	29.26	26.34	96.49	4.68
	2	(untitled)	4			244	2050	60	40.00	12	657	3.00	0.12	0.00	0.01
xA	**1**	(untitled)	10			773	2263	60	11.00	34	163	17.75	0.41	0.00	0.09
	2	(untitled)	10			877	2263	60	36.00	39	132	17.90	0.50	0.00	0.12
xB	**1**	(untitled)				1705	Unrestricted	60	0.00	0	Unrestricted	5.79	0.00	0.00	0.00
xC	**1**	(untitled)				687 <	1900	60	38.64	102	-11	145.40	136.73	147.57	33.11 +
	2	(untitled)				640	1900	60	39.50	90	0	34.19	25.50	78.77	12.80
xD	**1**	(untitled)				1028	Unrestricted	60	11.00	0	Unrestricted	9.13	0.00	0.00	0.00
	2	(untitled)				816	Unrestricted	60	18.00	0	Unrestricted	9.21	0.00	0.00	0.00
xE	**1**	(untitled)				637	Unrestricted	60	15.00	0	Unrestricted	13.04	0.00	0.00	0.00
	2	(untitled)				669	Unrestricted	60	26.00	0	Unrestricted	13.04	0.00	0.00	0.00
xF	**1**	(untitled)				818	Unrestricted	60	1.00	0	Unrestricted	12.19	0.00	0.00	0.00
Cc1	**1**	(untitled)	2	769-2	E	729	2050	30	4.00	69	31	21.65	15.12	59.69	8.46
E1	**1**	(untitled)	4	770-3	G	312	2050	25	0.00	35	156	18.46	12.46	61.75	3.22
	2	(untitled)	4	770-3	G	547	2200	25	0.00	57	57	21.38	15.38	68.30	6.25
Gf1	**1**	(untitled)	4			48	652	60	45.89	10	757	4.40	0.81	3.56	0.03
Cc2	**2**	(untitled)	2	769-2	D	921	2150	29	4.21	89	1	43.91	33.19	98.02	14.69
	3	(untitled)	2	769-2	D	716	2050	29	3.00	70	29	22.48	13.11	47.31	7.72
	4	(untitled)	2	769-2	D	961 <	2150	29	0.00	89	1	36.91	26.98	99.86	16.87 +
	5	(untitled)	2	769-2	D	84	2050	29	8.00	8	1003	11.78	3.08	15.00	0.21
	6	(untitled)	2	769-2	D	368	2050	29	19.00	36	151	8.90	0.98	0.00	0.10
E2	**3**	(untitled)	4	770-3	H	285 <	2150	25	18.04	100	-10	177.93	173.93	216.82	14.72 +
	4	(untitled)	4	770-3	H	248	2050	25	6.00	28	222	7.56	3.48	11.15	0.43
TC5	**2**	(untitled)	TC771-6	TC777-1	A	594	2263	38	12.00	39	129	7.35	4.59	25.06	2.48
	3	(untitled)	TC771-6	TC777-1	A	877	2263	38	16.00	58	55	4.41	1.65	0.00	0.40
	4	(untitled)	TC771-6	TC777-1	C	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00
TC9	**1**	(untitled)	TC771-6	TC777-1	B	960 <	1925	30	3.08	100	-10	97.50	86.49	185.78	30.95 +
	2	(untitled)	TC771-6	TC777-1	B	495	1966	30	11.00	46	97	27.69	16.63	83.48	6.88
	3	(untitled)	TC771-6	TC777-1	B	601 <	1947	30	14.49	100	-10	145.19	134.07	303.86	27.72 +
TC35	**1**	(untitled)	TC771-6	TC777-1	A	179	1900	38	20.00	14	537	7.24	4.34	27.79	1.46
TC36	**1**	(untitled)	TC771-6			568	1800	60	0.00	32	185	3.49	0.46	0.00	0.07
TC37	**1**	(untitled)	TC771-6	TC777-2	J	110	1850	45	0.00	8	1060	5.05	1.86	23.51	0.43
TC38	**1**	(untitled)	TC771-6			110	426	60	14.00	26	249	5.37	3.84	48.03	2.46
TC39	**2**	(untitled)	TC771-6			594	2263	60	32.00	26	243	2.82	0.28	0.00	0.05
	3	(untitled)	TC771-6			877	2263	60	36.00	39	132	2.90	0.50	0.00	0.12
TC40	**2**	(untitled)	TC771-6			704	Unrestricted	60	10.00	0	Unrestricted	4.23	0.00	0.00	0.00
	3	(untitled)	TC771-6			877	Unrestricted	60	28.00	0	Unrestricted	4.02	0.00	0.00	0.00
TC41	**1**	(untitled)	TC771-6	TC777-1	D	202	1850	8	0.00	73	24	44.90	40.97	114.13	3.91
	2	(untitled)	TC771-6	TC777-1	D	256	1850	8	0.00	92	-2	82.78	78.82	160.44	7.58
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	60	60.00	0	Unrestricted	0.00	0.00	0.00	0.00
47	**1**	(untitled)	2			1300	1300	60	0.00	100	-10	64.61	48.58	0.00	17.54

48	**1**	(untitled)	2			1081	1965	60	0.00	55	64	7.73	1.12	0.00	0.34
49	**1**	(untitled)	TC771-6			1175 <	1900	60	29.21	121	-25	325.34	322.19	319.69	118.35 +
	2	(untitled)	TC771-6			1353 <	1900	60	25.41	124	-27	359.34	356.19	330.18	148.87 +
50	**1**	(untitled)	1			1422 <	1900	60	21.43	116	-23	274.88	269.10	303.48	123.27 +
51	**1**	(untitled)	4-2			993	1900	60	0.00	52	72	5.53	1.04	0.00	0.29
53	**1**		TC771-6	TC777-1	J	15	1800	7	7.00	6	1346	26.68	15.76	74.83	0.20
54	**1**		3-2	11	A	12	1800	7	7.00	5	1700	47.36	23.36	85.35	0.17

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	29	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	3	770-1	C	0	11000	29	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	23	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	4	770-3	J	0	11000	23	0	Unrestricted	0.00	0.00	0.00	100	
5	**1**	(untitled)	4	770-3	I	0	11000	23	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	4	770-3	I	0	11000	23	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	20	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	5	771-1	C	0	11000	20	0	Unrestricted	0.00	0.00	0.00	100	
8	**1**	(untitled)	1	769-1	C	0	11000	33	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	1	769-1	C	0	11000	33	0	Unrestricted	0.00	0.00	0.00	100	
9	**1**	(untitled)	2	769-2	J	0	11000	12	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	J	0	11000	12	0	Unrestricted	0.00	0.00	0.00	100	
10	**1**	(untitled)	2	769-2	K	0	11000	17	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	K	0	11000	17	0	Unrestricted	0.00	0.00	0.00	100	
11	**1**	(untitled)		769-2	H	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		769-2	H	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	
12	**1**	(untitled)	2	769-2	I	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	2	769-2	I	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	
13	**1**	(untitled)		TC777-1	I	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	I	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	
14	**1**	(untitled)		TC777-1	F	0	11000	39	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	F	0	11000	39	0	Unrestricted	0.00	0.00	0.00	100	
15	**1**	(untitled)		TC777-1	G	0	0	0	0	-100	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	G	0	0	0	0	-100	0.00	0.00	0.00	100	
16	**1**	(untitled)		TC777-1	H	0	11000	9	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-1	H	0	11000	9	0	Unrestricted	0.00	0.00	0.00	100	
17	**1**	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	
18	**1**	(untitled)	771-2	771-2	F	0	11000	16	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	771-2	771-2	F	0	11000	16	0	Unrestricted	0.00	0.00	0.00	100	
19	**1**	(untitled)	771-2	771-2	A	0	11000	16	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)	771-2	771-2	A	0	11000	16	0	Unrestricted	0.00	0.00	0.00	100	
20	**1**	(untitled)		771-1	D	0	11000	18	0	Unrestricted	0.00	0.00	0.00	100	
	2	(untitled)		771-1	D	0	11000	18	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	6701.98	980.84	6.83	807.15	11461.52	1006.71	0.00	12468.23
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	6701.98	980.84	6.83	807.15	11461.52	1006.71	0.00	12468.23

- *< = 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***