TRANSYT 16

Version: 16.0.1.8473

For sales and distribution information, program advice and maintenance, contact TRL:
+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk

Filename: M62 JN 28 CRF Scheme_Mar 20_PF_Sept 20_RevE.t16
Path: P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\Transyt\Base
Report generation date: 24/01/2021 11:16:41

Summary of network performance

	Set ID	**Cycle time (s)**	**PI (£ per hr)**	**Total delay (PCU-hr/hr)**	**Highest DOS**	**Number oversaturated**
	AM Base 2032 + Com Dev + CP + Dev - AM 2032 + Com Dev + CP + Dev					
Network	A15 D15	120	20334.21	1352.55	154% (TS Df/1)	31 (21%)

There are warnings associated with this model run - see the 'Data Errors and Warnings' tables.

File summary

File description

File title	(untitled)
Location	
Site number	
UTCRegion	
Driving side	Left

Date	01/03/2017
Version	
Status	[no status]
Identifier	
Client	
Jobnumber	
Enumerator	LEEDS\00730414
Description	

Model and Results

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

Units

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

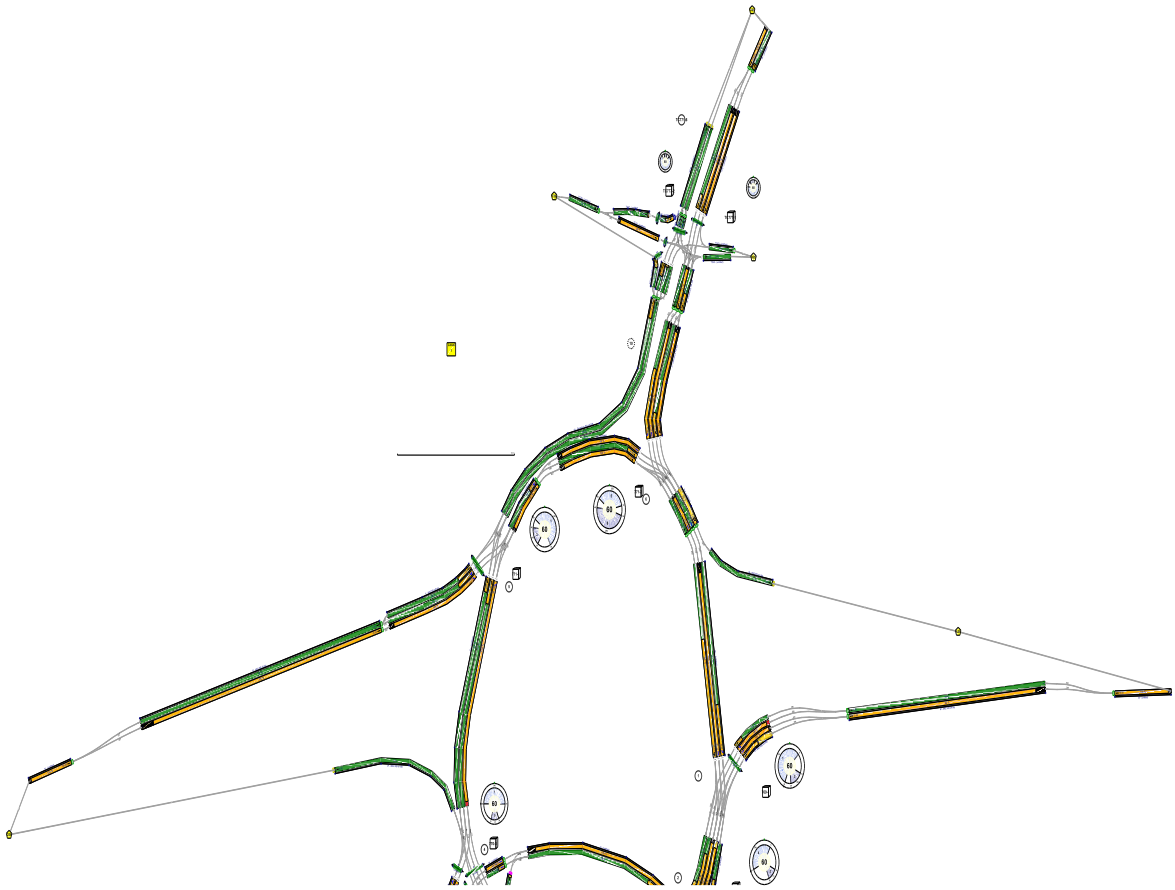
Sorting

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

Simulation options

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

Network Diagrams



A15 - AM Base 2032 + Com Dev + CP + Dev D15 - AM 2032 + Com Dev + CP + Dev,

Summary

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Traffic Stream Data	Arm Bf - Traffic Stream 1	Arm Bf - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Bf - Traffic Stream 2	Arm Bf - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Ff - Traffic Stream 1	Arm Ff - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm Ff - Traffic Stream 2	Arm Ff - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm xA - Traffic Stream 1	Arm xA - Traffic Stream 1 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm xA - Traffic Stream 2	Arm xA - Traffic Stream 2 is over 200m. Recommend the use of PDM to model platooning effects.
Warning	Traffic Stream Data	Arm TC38 - Traffic Stream 1	Traffic Stream 1: CTM uses a whole number of cells. CTM is using the length adjusted by 30%.

Warning	Traffic Stream Signals	Arm TC42 - Traffic Stream 1 - Signals (TC777-1, E)	Traffic Stream 1 controlling phase E never runs in the current stage sequence.
Info	Arm Data	Arm xC	No traffic node specified for arm(s): xC
Info	Traffic Stream Signals	Arm TC42 - Traffic Stream 1 - Signals (TC777-1, E)	Traffic Stream 1 controlling phase E never runs in stage sequence 1.

Run Summary

Analysis set used	Run start time	Run finish time	Run duration (s)	Modelling start time (HH:mm)	Network Cycle Time (s)	Performance Index (£ per hr)	Total network delay (PCU-hr/hr)	Highest DOS (%)	Item with highest DOS	Number of oversaturated items	Percentage of oversaturated items (%)	Item with worst signalised PRC	Item with worst unsignalised PRC	Item with worst overall PRC	Network within capacity
15	24/01/2021 11:15:33	24/01/2021 11:15:49	16.35	07:30	120	20334.21	1352.55	154.29	Df/1	31	21	TC42/1	Df/1	TC42/1	

Analysis Set Details

Name	Use Simulation	Description	Use specific Demand Set(s)	Specific Demand Set(s)	Optimise specific Demand Set(s)	Include in report	Locked
AM Base 2032 + Com Dev + CP + Dev			✓	D15		✓	

Demand Set Details

Scenario name	Time Period name	Description	Composite	Demand sets	Start time (HH:mm)	Locked	Run automatically
AM 2032 + Com Dev + CP + Dev		AM 2032 + Com Dev + CP + Dev			07:30		✓

Network Options

Network timings

Network cycle time (s)	Minimum possible cycle time (s)	Absolute minimum possible cycle time (s)	Restrict to SCOOT cycle times	Time segment length (min)	Number of time segments	Modelled time period (min)
120	72	64		60	1	60

Signals options

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

Advanced

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

Traffic options

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

Advanced

Resolution	DOS Threshold (%)	Cruise scaling factor (%)	Use link stop weightings	Use link delay weightings	Exclude pedestrians from traffic model	Exclude pedestrians from results calculation	Random delay mode	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
Standard accuracy Hill Climb	15, 40, -1, 15, 40, 1, -1, 1	50, 50, 5, 5, 0.5, 0.5, 0.05, 0.05		✓	TC777-1, TC777-2			Do nothing

Economics

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

Traffic Nodes

Traffic Nodes

Traffic node	Name	Description
(ALL)	(untitled)	

Arms and Traffic Streams

Arms

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

Traffic Streams

Arm	Traffic Stream	Name	Description	Auto length	Length (m)	Has Saturation Flow	Saturation flow source	Saturation flow (PCU/hr)	Auto-calculate cell saturation flow	Cell saturation flow (PCU/hr)	Is signal controlled	Is give way	Traffic type	Allow Nearside Turn On Red
A	1	(untitled)	M62E	✓	74.52	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.88	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.61	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.35	✓	Directly entered	2050		2050	✓		Normal	
Ac	1	(untitled)	M62E	✓	95.80	✓	Directly entered	2263		2263	✓		Normal	
	2	(untitled)	Wake	✓	92.34	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Dews/Brad	✓	87.95	✓	Directly entered	2263		2263	✓		Normal	
Acf	1	(untitled)		✓	69.59	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	70.42	✓	Directly entered	2263		2263			Normal	
Af	1	(untitled)	M62E/Wake	✓	53.54	✓	Directly entered	2050		2050			Normal	
	2	(untitled)	Dews	✓	53.19	✓	Directly entered	2050		2050			Normal	
	3	(untitled)	Brad/M62W	✓	53.01	✓	Directly entered	2050		2050			Normal	
B	1	(untitled)	Wake/Dews	✓	94.67	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Brad	✓	97.18	✓	Directly entered	2150		2150	✓		Normal	
	3	(untitled)	Leeds	✓	99.69	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)		✓	102.42	✓	Directly entered	2050		2050	✓		Normal	
Bc	1	(untitled)	Wake	✓	132.85	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Dews	✓	131.47	✓	Directly entered	2050		2263	✓		Normal	
	3	(untitled)	Brad/M62W	✓	130.10	✓	Directly entered	2050		2050	✓		Normal	
Bcf	1	(untitled)		✓	62.67	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	63.14	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.35	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.25	✓	Directly entered	2263		2050			Normal	
Bf	1	(untitled)		✓	227.81	✓	Sum of lanes	1800		1600			Normal	
	2	(untitled)		✓	228.44	✓	Sum of lanes	1800		1700			Normal	
C	1	(untitled)	Dews/Brad	✓	121.13	✓	Directly entered	2100		2050	✓		Normal	
	2	(untitled)	M62W/Brad/Leeds	✓	122.36	✓	Directly entered	2200		2100	✓		Normal	
	3	(untitled)	Leeds/M62E	✓	124.35	✓	Directly entered	2050		1900	✓		Normal	
Cf	1	(untitled)		✓	144.60	✓	Sum of lanes	1965		1965			Normal	
	2	(untitled)		✓	145.86	✓	Sum of lanes	1965		1965			Normal	

D	**1**	(untitled)	Brad/M62		55.00	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Leeds		55.00	✓	Directly entered	1850		2075	✓		Normal	
	3	(untitled)	Leeds/M62/Wake	✓	52.87	✓	Directly entered	2250		2250	✓		Normal	
Dc	**1**	(untitled)	Brad	✓	50.67	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Brad/M62W	✓	48.72	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Leeds	✓	46.78	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)	Leeds/M62E	✓	44.83	✓	Directly entered	2100		2100	✓		Normal	
Dcf	**1**	(untitled)		✓	65.95	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	65.92	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	68.61	✓	Directly entered	2100		2100			Normal	
	4	(untitled)		✓	66.73	✓	Directly entered	2100		2100			Normal	
	5	(untitled)		✓	66.90	✓	Directly entered	2100		2100			Normal	
Df	**1**	(untitled)			200.00	✓	Sum of lanes	1900					Normal	
	2	(untitled)			200.00	✓	Directly entered	2250					Normal	
Dxp	**1**	(untitled)		✓	46.62	✓	Directly entered	2050			✓		Normal	
	2	(untitled)		✓	48.64	✓	Directly entered	2050			✓		Normal	
Ec	**1**	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal	
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal	
	4	(untitled)	M62E	✓	45.93	✓	Directly entered	2250		2250	✓		Normal	
Ecf	**1**	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal	
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	46.93	✓	Directly entered	2263		2263			Normal	
	4	(untitled)		✓	50.37	✓	Directly entered	2300		2300			Normal	
Ef	**1**	(untitled)		✓	127.54	✓	Directly entered	1900					Normal	
	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal	
Exp	**1**	(untitled)		✓	51.83	✓	Directly entered	2050		2100	✓		Normal	
	2	(untitled)		✓	53.71	✓	Directly entered	2050		2100	✓		Normal	
F	**1**	(untitled)	Leeds	✓	85.13	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Wake	✓	85.72	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Dews/Brad	✓	87.25	✓	Directly entered	2100		2100	✓		Normal	
Fc	**1**	(untitled)	Leeds	✓	183.21	✓	Directly entered	2263		2263	✓		Normal	

	2	(untitled)	Leeds	✓	181.45	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	M62E/Dews	✓	180.28	✓	Directly entered	2263		2263	✓		Normal	
Ff	**1**	(untitled)		✓	275.73	✓	Sum of lanes	1900		1900			Normal	
	2	(untitled)		✓	275.39	✓	Sum of lanes	1900		1900			Normal	
G	**1**	(untitled)		✓	155.36	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)		✓	151.80	✓	Directly entered	2050		2050	✓		Normal	
Gf	**1**	(untitled)		✓	40.48	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	40.06	✓	Directly entered	2050		2050			Normal	
xA	**1**	(untitled)		✓	229.66	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	229.97	✓	Directly entered	2263		2263			Normal	
xB	**1**	(untitled)		✓	77.15								Normal	
xC	**1**	(untitled)		✓	115.60	✓	Sum of lanes	1900		1900			Normal	
	2	(untitled)		✓	115.98	✓	Sum of lanes	1900		1900			Normal	
xD	**1**	(untitled)		✓	121.71								Normal	
	2	(untitled)		✓	122.74								Normal	
xE	**1**	(untitled)		✓	173.89								Normal	
	2	(untitled)		✓	173.83								Normal	
xF	**1**	(untitled)		✓	162.53								Normal	
Cc1	**1**	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal	
E1	**1**	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal	
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal	
Gf1	**1**	(untitled)		✓	49.26							✓	Normal	
Cc2	**2**	(untitled)	Dews	✓	91.58	✓	Directly entered	2150		2100	✓		Normal	
	3	(untitled)	Brad/M62W	✓	89.25	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Dews/Brad	✓	88.96	✓	Directly entered	2150		2100	✓		Normal	
	5	(untitled)	Leeds	✓	88.65	✓	Directly entered	2050		2050	✓		Normal	
E2	**3**	(untitled)	Wake	✓	53.28	✓	Directly entered	2150		2050	✓		Normal	
	4	(untitled)	Wake	✓	54.33	✓	Directly entered	2050		2050	✓		Normal	
TC5	**2**	(untitled)		✓	23.03	✓	Sum of lanes	2263		2263	✓		Normal	
	3	(untitled)		✓	23.02	✓	Directly entered	2263		2263	✓		Normal	
	4	(untitled)		✓	24.43	✓	Sum of lanes	1800		2263	✓		Normal	
TC9	**1**	(untitled)		✓	91.71	✓	Directly entered	1925		1925	✓		Normal	

	2	(untitled)		✓	92.11	✓	Sum of lanes	1966		1966	✓		Normal	
	3	(untitled)		✓	92.69	✓	Sum of lanes	1947		1947	✓		Normal	
TC35	1	(untitled)		✓	24.16	✓	Directly entered	1900		2263	✓		Normal	
TC36	1	(untitled)		✓	25.22	✓	Sum of lanes	1800					Normal	
TC37	1	(untitled)		✓	44.32	✓	Directly entered	1850		1850	✓		Normal	
TC38	1	(untitled)		✓	21.32	✓	Directly entered	1850		1850		✓	Normal	
TC39	2	(untitled)		✓	35.24	✓	Directly entered	2263		2263			Normal	
	3	(untitled)		✓	33.28	✓	Directly entered	2263		2263			Normal	
TC40	2	(untitled)		✓	58.74								Normal	
	3	(untitled)		✓	55.82								Normal	
TC41	1	(untitled)		✓	54.63	✓	Directly entered	1850		1850	✓		Normal	
TC42	1	(untitled)		✓	23.35	✓	Sum of lanes	1771			✓		Normal	
TC43	1	(untitled)		✓	51.77	✓	Sum of lanes	1800					Normal	
47	1	(untitled)		✓	133.63	✓	Directly entered	1300		1300			Normal	
48	1	(untitled)		✓	55.12	✓	Sum of lanes	1965					Normal	
49	1	(untitled)		✓	26.24	✓	Directly entered	1900					Normal	
	2	(untitled)		✓	26.24	✓	Directly entered	1900					Normal	
50	1	(untitled)		✓	48.15	✓	Sum of lanes	1900					Normal	
51	1	(untitled)		✓	37.47	✓	Sum of lanes	1900					Normal	

Lanes

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

	2	**2**	(untitled)											
	3	**3**	(untitled)											
B	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
	4	**4**	(untitled)											
Bc	**1**	**1**	(untitled)											
	2	**1**	(untitled)											
	3	**1**	(untitled)											
Bcf	**1**	**1**	(untitled)											
	2	**1**	(untitled)											
	3	**1**	(untitled)											
	4	**1**	(untitled)											
Bf	**1**	**1**	(untitled)											1800
	2	**1**	(untitled)											1800
C	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
Cf	**1**	**2**	(untitled)											1965
	2	**1**	(untitled)											1965
D	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
Dc	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
	4	**4**	(untitled)											
Dcf	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
	4	**4**	(untitled)											
	5	**5**	(untitled)											

Df	**1**	**1**	(untitled)											1900
	2	**2**	(untitled)											
Dxp	**1**	**1**	(untitled)											
	2	**1**	(untitled)											
Ec	**1**	**1**	(untitled)											
	2	**1**	(untitled)											
	3	**1**	(untitled)											
	4	**1**	(untitled)											
Ecf	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
	4	**4**	(untitled)											
Ef	**1**	**1**	(untitled)											
	2	**2**	(untitled)											1900
Exp	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
F	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
Fc	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
Ff	**1**	**1**	(untitled)											1900
	2	**2**	(untitled)											1900
G	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
Gf	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
xA	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
xB	**1**	**1**	(untitled)											
xC	**1**	**1**	(untitled)											1900

	2	**2**	(untitled)											1900
xD	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
xE	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
xF	**1**	**1**	(untitled)											
Cc1	**1**	**1**	(untitled)											
E1	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
Gf1	**1**	**1**	(untitled)											
Cc2	**2**	**2**	(untitled)											
	3	**3**	(untitled)											
	4	**4**	(untitled)											
	5	**5**	(untitled)											
E2	**3**	**3**	(untitled)											
	4	**4**	(untitled)											
TC5	**2**	**1**	(untitled)		✓	N/A	Clearly Good	0	3.50	✓	0	99999.00		2263
	3	**1**	(untitled)											
	4	**1**	(untitled)											1800
TC9	**1**	**1**	(untitled)											
	2	**1**	(untitled)		✓	N/A	Average	0	3.70	✓	0	99999.00		1966
	3	**1**	(untitled)		✓	N/A	Average	0	3.50	✓	0	99999.00		1947
TC35	**1**	**1**	(untitled)											
TC36	**1**	**1**	(untitled)											1800
TC37	**1**	**1**	(untitled)											
TC38	**1**	**1**	(untitled)											
TC39	**2**	**1**	(untitled)											
	3	**1**	(untitled)											
TC40	**2**	**1**	(untitled)											
	3	**1**	(untitled)											
TC41	**1**	**1**	(untitled)											
TC42	**1**	**1**	(untitled)		✓	N/A	Average	0	3.00	✓	0	9.44	✓	1771

TC43	**1**	**1**	(untitled)											1800
47	**1**	**1**	(untitled)											
48	**1**	**1**	(untitled)											1965
49	**1**	**2**	(untitled)											
	2	**1**	(untitled)											
50	**1**	**1**	(untitled)											1900
51	**1**	**1**	(untitled)											1900

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 of saturation penalty (£)
A	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ac	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Acf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Af	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
B	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Bc	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Bcf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Bf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
C	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Cf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
D	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Dc	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							

	4	CTM	100	100	100		0.00							
Dcf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
Df	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Dxp	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Ec	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ecf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ef	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Exp	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
F	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Fc	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Ff	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00	✓	0.00	0.00	✓	2	0.00	0.00
G	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Gf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xA	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xB	**1**	NetworkDefault	100	100	100		0.00							
xC	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xD	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
xE	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
xF	**1**	NetworkDefault	100	100	100		0.00							
Cc1	**1**	CTM	100	100	100		0.00							
E1	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							

Gf1	**1**	NetworkDefault	100	100	100		0.00							
Cc2	**2**	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
E2	**3**	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
TC 5	**2**	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
TC 9	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
TC 35	**1**	CTM	100	100	100		0.00							
TC 36	**1**	NetworkDefault	100	100	100		0.00							
TC 37	**1**	CTM	100	100	100		0.00							
TC 38	**1**	CTM	100	100	100		0.00							
TC 39	**2**	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
TC 40	**2**	PDM	100	100	100		0.00							
	3	PDM	100	100	100		0.00							
TC 41	**1**	CTM	100	100	100		0.00							
TC 42	**1**	NetworkDefault	100	100	100		0.00							
TC 43	**1**	NetworkDefault	100	100	100		0.00							
47	**1**	CTM	100	100	100		0.00							
48	**1**	NetworkDefault	100	100	100		0.00							
49	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
50	**1**	NetworkDefault	100	100	100		0.00							
51	**1**	NetworkDefault	100	100	100		0.00							

Modelling - Advanced

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

Normal traffic - Modelling

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

Normal traffic - Advanced

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

Flows

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

A	**1**	431	431
	2	219	219
	3	490	490
	4	335	335
Ac	**1**	1220	1220
	2	202	202
	3	435	435
Acf	**1**	1422	1422
	2	435	435
Af	**1**	650	650
	2	490	490
	3	335	335
B	**1**	422	422
	2	446	446
	3	532	532
	4	617	617
Bc	**1**	457	457
	2	811	811
	3	412	412
Bcf	**1**	1651	1651
	2	457	457
	3	811	811
	4	412	412
Bf	**1**	868	868
	2	1149	1149
C	**1**	597	597
	2	684	684
	3	372	372
Cf	**1**	597	597
	2	1056	1056
D	**1**	548	548
	2	999	999
	3	905	905
Dc	**1**	1040	1040
	2	852	852
	3	739	739
	4	989	989
Dcf	**1**	978	978
	2	1349	1349
	3	852	852
	4	739	739
	5	989	989
Df	**1**	1547	1547
	2	905	905
Dxp	**1**	978	978
	2	309	309
Ec	**1**	854	854
	2	1671	1671
	3	1246	1246
	4	670	670
Ecf	**1**	1222	1222
	2	1218	1218
	3	1671	1671
	4	1961	1961
Ef	**1**	935	935

	2	521	521
Exp	**1**	1222	1222
	2	364	364
F	**1**	360	360
	2	201	201
	3	355	355
Fc	**1**	1902	1902
	2	1290	1290
	3	1272	1272
Ff	**1**	561	561
	2	355	355
G	**1**	389	389
	2	177	177
Gf	**1**	386	386
	2	135	135
xA	**1**	2029	2029
	2	1494	1494
xB	**1**	1651	1651
xC	**1**	636	636
	2	374	374
xD	**1**	978	978
	2	309	309
xE	**1**	1222	1222
	2	364	364
xF	**1**	912	912
Cc1	**1**	443	443
E1	**1**	333	333
	2	602	602
Gf1	**1**	45	45
Cc2	**2**	872	872
	3	799	799
	4	966	966
	5	617	617
E2	**3**	386	386
	4	135	135
TC5	**2**	1601	1601
	3	1494	1494
	4	0	0
TC9	**1**	564	564
	2	444	444
	3	300	300
TC35	**1**	428	428
TC36	**1**	201	201
TC37	**1**	35	35
TC38	**1**	35	35
TC39	**2**	1601	1601
	3	1494	1494
TC40	**2**	1636	1636
	3	1494	1494
TC41	**1**	166	166
TC42	**1**	0	0
TC43	**1**	0	0
47	**1**	1009	1009
48	**1**	1653	1653
49	**1**	564	564

	2	744	744
50	**1**	2017	2017
51	**1**	916	916

Signals

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

TC5	**2**	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
TC9	**1**	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
TC35	**1**	TC777-1	A	
TC37	**1**	TC777-2	J	
TC41	**1**	TC777-1	D	
TC42	**1**	TC777-1	E	

Entry Sources

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

Sources

Arm	Traffic Stream	Source	Source traffic stream	Destination traffic stream	Cruise time for Normal Traffic (s)	Cruise speed for Normal Traffic (kph)	Auto turning radius	Traffic turn style	Turning radius (m)
A	**1**	**1**	Af/1	A/1	5.59	48.00	✓	Straight	Straight Movement
	2	**1**	Af/1	A/2	5.77	48.00	✓	Straight	Straight Movement
	3	**1**	Af/2	A/3	5.90	48.00	✓	Straight	Straight Movement
	4	**1**	Af/3	A/4	6.03	48.00	✓	Straight	Straight Movement
Ac	**1**	**1**	Acf/1	Ac/1	7.19	48.00	✓	Offside	48.59
	2	**1**	Acf/1	Ac/2	9.50	35.00	✓	Offside	46.08
	3	**1**	Acf/2	Ac/3	6.60	48.00	✓	Offside	42.76
Acf	**1**	**1**	F/2	Acf/1	5.22	48.00	✓	Straight	Straight Movement
	2	**1**	F/3	Acf/2	7.24	35.00	✓	Straight	Straight Movement
Af	**1**	**1**	TC42/1	Af/1	6.42	30.00	✓	Nearside	10.60
	2	**1**	TC42/1	Af/2	6.38	30.00	✓	Nearside	10.60
	3	**1**	TC42/1	Af/3	6.36	30.00	✓	Nearside	10.60
B	**1**	**1**	Bf/1	B/1	7.10	48.00	✓	Straight	Straight Movement
	2	**1**	Bf/1	B/2	7.29	48.00	✓	Straight	Straight Movement
	3	**1**	Bf/2	B/3	7.48	48.00	✓	Straight	Straight Movement
	4	**1**	Bf/2	B/4	12.29	30.00	✓	Straight	Straight Movement
Bc	**1**	**1**	Bcf/2	Bc/1	11.96	40.00	✓	Offside	51.76
	2	**1**	Bcf/3	Bc/2	11.83	40.00	✓	Offside	48.45
	3	**1**	Bcf/4	Bc/3	11.71	40.00	✓	Offside	45.13

Bcf	**1**	**1**	A/1	Bcf/1	4.70	48.00	✓	Nearside	68.65
	2	**1**	A/2	Bcf/2	6.69	34.00	✓	Nearside	71.96
	3	**1**	A/3	Bcf/3	6.60	34.00	✓	Nearside	75.27
	4	**1**	A/4	Bcf/4	6.59	34.00	✓	Nearside	78.59
Bf	**1**	**1**	50/1	Bf/1	27.34	30.00	✓	Straight	Straight Movement
	2	**1**	50/1	Bf/2	27.41	30.00	✓	Straight	Straight Movement
C	**1**	**1**	Cf/1	C/1	14.54	30.00	✓	Offside	59.30
	2	**1**	Cf/2	C/2	14.68	30.00	✓	Offside	55.98
	3	**1**	Cf/2	C/3	14.92	30.00	✓	Offside	53.27
Cf	**1**	**1**	48/1	Cf/1	17.35	30.00	✓	Straight	Straight Movement
	2	**1**	48/1	Cf/2	17.50	30.00	✓	Straight	Straight Movement
D	**1**	**1**	Df/1	D/1	4.13	48.00	✓	Straight	Straight Movement
	2	**1**	Df/1	D/2	4.13	48.00	✓	Straight	Straight Movement
	3	**1**	Df/2	D/3	3.97	48.00	✓	Straight	Straight Movement
Dc	**1**	**1**	Dcf/2	Dc/1	3.80	48.00	✓	Offside	56.07
	2	**1**	Dcf/3	Dc/2	3.65	48.00	✓	Offside	52.76
	3	**1**	Dcf/4	Dc/3	3.51	48.00	✓	Offside	49.44
	4	**1**	Dcf/5	Dc/4	3.36	48.00	✓	Offside	46.13
Dcf	**1**	**1**	Cc2/2	Dcf/1	4.95	48.00	✓	Straight	Straight Movement
	2	**1**	Cc2/4	Dcf/2	4.94	48.00	✓	Straight	Straight Movement
	3	**1**	Cc2/3	Dcf/3	5.15	48.00	✓	Straight	Straight Movement
	4	**1**	C/2	Dcf/4	5.00	48.00	✓	Nearside	58.86
	5	**1**	Cc2/5	Dcf/5	5.02	48.00	✓	Straight	Straight Movement
Dxp	**1**	**1**	Dcf/1	Dxp/1	3.50	48.00	✓	Nearside	80.62
	2	**1**	Dcf/2	Dxp/2	3.65	48.00	✓	Nearside	83.93
Ec	**1**	**1**	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	**1**	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	**1**	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	**1**	Ecf/4	Ec/4	3.44	48.00	✓	Offside	67.06
Ecf	**1**	**1**	Dc/1	Ecf/1	3.45	48.00	✓	Offside	76.11
	2	**1**	Dc/2	Ecf/2	3.48	48.00	✓	Offside	72.80
	3	**1**	Dc/3	Ecf/3	3.52	48.00	✓	Offside	69.49
	4	**1**	Dc/4	Ecf/4	3.78	48.00	✓	Offside	66.17
Exp	**1**	**1**	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	**1**	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	**1**	**1**	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	**1**	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	**1**	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	**1**	**1**	Ec/2	Fc/1	18.84	35.00	✓	Straight	Straight Movement
	2	**1**	Ec/3	Fc/2	18.66	35.00	✓	Straight	Straight Movement
	3	**1**	Ec/4	Fc/3	18.54	35.00	✓	Straight	Straight Movement

Ff	**1**	**1**	51/1	Ff/1	33.09	30.00	✓	Straight	Straight Movement
	2	**1**	51/1	Ff/2	33.05	30.00	✓	Straight	Straight Movement
G	**1**	**1**	Gf/1	G/1	15.98	35.00	✓	Offside	88.54
	2	**1**	Gf/2	G/2	11.38	48.00	✓	Offside	85.22
Gf	**1**	**1**	E2/3	Gf/1	3.04	48.00	✓	Straight	Straight Movement
	2	**1**	E2/4	Gf/2	3.00	48.00	✓	Straight	Straight Movement
xA	**1**	**1**	F/1	xA/1	17.22	48.00	✓	Straight	Straight Movement
	2	**1**	F/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
xB	**1**	**1**	Bcf/1	xB/1	5.79	48.00	✓	Nearside	59.55
xC	**1**	**1**	G/1	xC/1	8.67	48.00	✓	Straight	Straight Movement
	2	**1**	G/2	xC/2	8.70	48.00	✓	Straight	Straight Movement
xD	**1**	**1**	Dxp/1	xD/1	9.13	48.00	✓	Nearside	30.26
	2	**1**	Dxp/2	xD/2	9.21	48.00	✓	Nearside	33.58
xE	**1**	**1**	Exp/1	xE/1	13.04	48.00	✓	Straight	Straight Movement
	2	**1**	Exp/2	xE/2	13.04	48.00	✓	Straight	Straight Movement
xF	**1**	**1**	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
Cc1	**1**	**1**	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
E1	**1**	**1**	Ef/1	E1/1	6.00	48.00	✓	Nearside	26.33
	2	**1**	Ef/1	E1/2	6.00	48.00	✓	Nearside	28.96
Gf1	**1**	**1**	Ecf/4	Gf1/1	3.69	48.00	✓	Offside	25.08
Cc2	**2**	**1**	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	**1**	Bc/3	Cc2/3	5.95	54.00	✓	Straight	Straight Movement
	4	**1**	Bc/3	Cc2/4	5.93	54.00	✓	Straight	Straight Movement
	5	**1**	Bc/3	Cc2/5	5.91	54.00	✓	Offside	97.08
E2	**3**	**1**	Ef/2	E2/3	4.00	48.00	✓	Nearside	43.25
	4	**1**	Ef/2	E2/4	4.07	48.00	✓	Nearside	43.25
TC5	**2**	**1**	xA/1	TC5/2	2.76	30.00	✓	Straight	Straight Movement
	3	**1**	xA/2	TC5/3	2.76	30.00	✓	Straight	Straight Movement
	4	**1**	xA/2	TC5/4	2.93	30.00	✓	Straight	Straight Movement
TC9	**1**	**1**	49/1	TC9/1	11.00	30.00	✓	Straight	Straight Movement
	2	**1**	49/2	TC9/2	11.05	30.00	✓	Straight	Straight Movement
	3	**1**	49/2	TC9/3	11.12	30.00	✓	Straight	Straight Movement
TC35	**1**	**1**	xA/1	TC35/1	2.90	30.00	✓	Straight	Straight Movement
TC37	**1**	**1**	TC36/1	TC37/1	3.19	50.00	✓	Nearside	46.04
TC38	**1**	**1**	TC37/1	TC38/1	1.53	50.00	✓	Straight	Straight Movement
TC39	**2**	**1**	TC5/2	TC39/2	2.54	50.00	✓	Straight	Straight Movement

	3	**1**	TC5/3	TC39/3	2.40	50.00	✓	Straight	Straight Movement
TC40	**2**	**1**	TC38/1	TC40/2	4.23	50.00	✓	Nearside	11.92
	3	**1**	TC39/3	TC40/3	4.02	50.00	✓	Offside	77.43
TC41	**1**	**1**	TC36/1	TC41/1	3.93	50.00	✓	Straight	Straight Movement
TC43	**1**	**1**	TC9/1	TC43/1	3.73	50.00	✓	Nearside	6.11
47	**1**	**1**	xC/1	47/1	16.04	30.00	✓	Straight	Straight Movement
Acf	**1**	**2**	Fc/3	Acf/1	5.22	48.00	✓	Straight	Straight Movement
	2	**2**	Fc/3	Acf/2	7.24	35.00	✓	Straight	Straight Movement
Af	**1**	**2**	TC9/1	Af/1	6.42	30.00	✓	Straight	Straight Movement
	2	**2**	TC9/2	Af/2	6.38	30.00	✓	Straight	Straight Movement
	3	**2**	TC9/3	Af/3	6.36	30.00	✓	Straight	Straight Movement
Bcf	**1**	**2**	Ac/1	Bcf/1	3.96	57.00	✓	Offside	93.05
	2	**2**	Ac/2	Bcf/2	3.99	57.00	✓	Offside	89.74
	3	**2**	Ac/3	Bcf/3	3.94	57.00	✓	Offside	86.42
	4	**2**	Ac/3	Bcf/4	3.93	57.00	✓	Offside	86.42
Dcf	**1**	**2**	C/1	Dcf/1	4.95	48.00	✓	Nearside	55.54
	2	**2**	C/1	Dcf/2	4.94	48.00	✓	Nearside	55.54
	3	**2**	C/2	Dcf/3	5.15	48.00	✓	Nearside	58.86
	4	**2**	Cc2/3	Dcf/4	8.01	30.00	✓	Straight	Straight Movement
	5	**2**	C/3	Dcf/5	5.02	48.00	✓	Nearside	62.17
Ecf	**1**	**2**	D/1	Ecf/1	3.45	48.00	✓	Nearside	43.36
	2	**2**	D/1	Ecf/2	3.48	48.00	✓	Nearside	43.36
	3	**2**	D/2	Ecf/3	3.52	48.00	✓	Nearside	46.68
	4	**2**	D/3	Ecf/4	3.78	48.00	✓	Nearside	49.99
Fc	**1**	**2**	E1/1	Fc/1	20.61	32.00	✓	Nearside	58.94
	2	**2**	E1/1	Fc/2	20.41	32.00	✓	Nearside	60.85
	3	**2**	E1/2	Fc/3	20.28	32.00	✓	Nearside	64.16
G	**1**	**2**	Gf1/1	G/1	15.98	35.00	✓	Offside	17.91
	2	**2**	Gf1/1	G/2	11.38	48.00	✓	Offside	15.13
xA	**1**	**2**	Fc/1	xA/1	17.22	48.00	✓	Straight	Straight Movement
	2	**2**	Fc/2	xA/2	17.25	48.00	✓	Straight	Straight Movement
xC	**1**	**2**	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	**2**	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
xF	**1**	**2**	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
Cc1	**1**	**2**	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	**2**	**2**	Bc/2	Cc2/2	6.11	54.00	✓	Straight	Straight Movement
	3	**2**	B/3	Cc2/3	8.03	40.00	✓	Straight	Straight Movement
	4	**2**	B/2	Cc2/4	8.01	40.00	✓	Straight	Straight Movement
	5	**2**	B/4	Cc2/5	7.98	40.00	✓	Straight	Straight Movement
TC39	**2**	**2**	TC42/1	TC39/2	2.54	50.00	✓	Offside	9.44
	3	**2**	TC42/1	TC39/3	2.40	50.00	✓	Offside	9.44

TC40	**2**	**2**	TC39/2	TC40/2	4.23	50.00	✓	Offside	80.74
TC43	**1**	**2**	TC5/4	TC43/1	3.73	50.00	✓	Offside	21.45
47	**1**	**2**	xC/2	47/1	16.04	30.00	✓	Straight	Straight Movement
Acf	**1**	**3**	Fc/2	Acf/1	5.22	48.00	✓	Straight	Straight Movement
Af	**1**	**3**	TC41/1	Af/1	6.42	30.00	✓	Offside	6.19
	2	**3**	TC41/1	Af/2	6.38	30.00	✓	Offside	6.19
	3	**3**	TC41/1	Af/3	6.36	30.00	✓	Offside	6.19
Bcf	**2**	**3**	Ac/3	Bcf/2	3.99	57.00	✓	Offside	86.42
Dcf	**3**	**3**	Cc2/4	Dcf/3	8.23	30.00	✓	Straight	Straight Movement
Ecf	**4**	**3**	D/2	Ecf/4	6.04	30.00	✓	Nearside	46.68
xA	**2**	**3**	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	**2**	**3**	B/2	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	4	**3**	Bc/2	Cc2/4	5.93	54.00	✓	Straight	Straight Movement
	2	**4**	Bc/1	Cc2/2	6.11	54.00	✓	Straight	Straight Movement

Give Way Data

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

Give Way Data - All Movements - Conflicts

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

Pedestrian Crossings

Pedestrian Crossings

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

Pedestrian Crossings - Signals

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

Pedestrian Crossings - Sides

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

Pedestrian Crossings - Modelling

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

Local OD Matrix - Local Matrix: 1

Local Matrix Options

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

Normal Input Flows (PCU/hr)

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	0	55	416	2	497	131	916	0
	B28	40	0	115	294	627	39	538	0
	C28	637	45	0	366	182	45	1177	0
	D28	3	234	275	0	44	109	251	0
	E28	540	521	84	58	0	40	213	0
	F28	66	14	17	61	8	0	35	0
	G28	365	140	380	131	228	64	0	0
	H28	0	0	0	0	0	0	0	0

Bus Input Flows not shown as they are blank.

Tram Input Flows not shown as they are blank.

Pedestrian Input Flows not shown as they are blank.

Locations

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

Normal Paths and Flows

OD Matrix	Path	Description	From location	To location	Path items	Allocation type	Normal Calculated Flow (PCU/hr)
1	**23**	I3	C28	A28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	630
	24		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	25		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	0
	32	I1	C28	E28	Df/1, D/1, Ecf/1, Exp/1, xE/1	Normal	182
	36		C28	E28	Df/1, D/1, Ecf/2, Exp/2, xE/2	Disabled	0
	41		E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	522
	42		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	40
	43		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	0
	44		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
	45		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	49	I1	C28	D28	Df/1, D/1, Ecf/2, Ec/1, xF/1	Normal	366
	50		E28	D28	Ef/1, E1/1, xF/1	Normal	58
	68		E28	G28	Ef/1, E1/1, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	191
	86		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	31
	91	I2	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	45
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	40
	96		A28	C28	50/1, Bf/1, B/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Disabled	0
	97		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	0
	98		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0
	99	I3	C28	B28	Df/2, D/3, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Normal	42
	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Fixed	135
	101		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	367
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	104	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	717
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	0
	106		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	161

	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	28
	108		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	332
	109	I3	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	230
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	22
	111		B28	G28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	0
	112		F28	G28	TC36/1, TC37/1, TC38/1, TC40/2	Normal	35
	113		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, xB/1	Normal	66
	114		C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	9
	116		F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	6
	117		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	118		F28	C28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	0
	119		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	2
	120		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	2
	121		A28	A28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
	122		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	123		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	124		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	126		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	127		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	128		H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	129		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	6
	130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	161
	131		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	123
	132		H28	C28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	133		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
	134		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	135		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	136		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
	137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	0
	138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	0
	139		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	6
	140		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	141		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	6
	142		C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	143		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	144		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	145		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	146		F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	147		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	2
	148		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	31
	149	I3	C28	B28	Df/2, D/3, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Fixed	3
	150		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	386
	151		B28	A28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	0
	152		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
	153		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	14
	154		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	18
	155		E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	4
	156		C28	G28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	60
	157		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
	158		B28	D28	48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	294

	159		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	145
	160		B28	G28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	206
	161		B28	F28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	39
	162		B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	163		B28	A28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	40
	164		B28	B28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Normal	0
	165		B28	B28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Normal	0
	166		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	106
	167		B28	E28	48/1, Cf/1, C/1, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	482
	168		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	365
	169		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	70
	170		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	70
	171		G28	H28	49/1, TC9/1, TC43/1	Normal	0
	175		G28	C28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	0
	176		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	71
	177		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	131
	178		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	34
	181		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
	185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	28
	186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	49
	187		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	327
	195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	198
	196		D28	F28	51/1, Ff/1, F/1, xA/1, TC35/1	Normal	109
	197		D28	G28	51/1, Ff/1, F/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	53
	198		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	3
	199		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	99
	200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	99
	201		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	230
	204		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	45
	205		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	27
	206		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	207		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	6
	210		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	617
	211		A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	212		A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	213		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	102
	214		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
	215		G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	64
	218		A28	G28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Fixed	289
	219		A28	F28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	131
	220		H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
	221		F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
	222		A28	D28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	2
	223		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	68
	224		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	225		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0
	226		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	227		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	228		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	0
	229		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0

	230		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
	231		A28	G28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	10
	232		A28	H28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	233		B28	H28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	234	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	170
	235		E28	G28	Ef/1, E1/1, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	0
	236		E28	H28	Ef/1, E1/1, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	237		F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	238		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Fixed	36
	239		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	240		G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	59
	241		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	242		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	243		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	244		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0
	245		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	246		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	40
	247		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	248		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	0
	249		H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	250		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
	251		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	252		F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	6
	253		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	2
	254		A28	A28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
	255	I3	C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	0
	256		C28	C28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	257		C28	H28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	258		C28	A28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	7
	259		C28	C28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	260		C28	A28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	0
	261		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	262		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	263		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	264		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	265		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	266		C28	B28	Df/1, D/2, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Fixed	0
	267		C28	B28	Df/1, D/2, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Fixed	0

Signal Timings

Network Default: 120s cycle time; 120 steps

Resultant penalties

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

Results - Link

Results - Traffic Stream

Results - Traffic Stream: Vehicle summary

Time Segment	Arm	Traffic Stream	Name	Phase	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual green (s (per cycle))	Calculated capacity (PCU/hr)	Degree of saturation (%)	Practical reserve capacity (%)	Mean Delay per Veh (s)	Mean max queue (PCU)	Utilised storage (%)	JourneyTime (s)
07:30-08:30	A	1	(untitled)	E	420	2050	36	649	65	39	18.60	7.60	58.63	24.18
		2	(untitled)	E	216	2050	36	649	33	171	12.21	2.84	21.28	17.97
		3	(untitled)	E	480	2050	36	480	100	-10	145.05	22.08	161.47	150.95
		4	(untitled)	E	329	2050	36	649	51	78	15.64	5.29	37.89	21.66
	Ac	1	(untitled)	D	1052	2263	64	1245	84	7	18.60	16.15	96.95	25.79
		2	(untitled)	D	139	2263	64	1223	11	690	1.19	1.95	12.16	10.68
		3	(untitled)	D	316	2263	64	316	100	-10	232.53	22.32	145.89	239.13
	Acf	1	(untitled)		1191	2263	120	2262	53	71	0.88	7.25	59.89	6.10
		2	(untitled)		316	2263	120	316	100	-10	203.49	20.23	165.15	210.73
	Af	1	(untitled)		635	2050	120	2050	31	191	0.39	0.07	0.75	6.82
		2	(untitled)		481	2050	120	480	100	-10	123.25	19.20	207.50	129.63
		3	(untitled)		329	2050	120	2050	16	461	0.17	0.02	0.17	6.53
	B	1	(untitled)	B	398	2050	38	683	58	54	20.21	5.35	32.51	27.31
		2	(untitled)	B	420	2150	38	707	59	52	20.36	5.62	33.25	27.65
		3	(untitled)	B	485	2100	38	688	70	28	32.09	8.91	51.39	39.57
		4	(untitled)	B	562	2050	38	562	100	-10	146.53	28.77	161.51	158.82
	Bc	1	(untitled)	A	379	2050	58	1025	37	143	2.72	0.64	2.77	14.68
		2	(untitled)	A	718	2050	58	718	100	-10	137.67	34.19	149.53	149.50
		3	(untitled)	A	382	2050	58	897	43	111	3.77	5.96	26.34	15.48
	Bcf	1	(untitled)		1472	2263	120	2263	65	38	1.48	0.60	5.54	5.65
		2	(untitled)		379	2263	120	2263	17	437	0.16	0.02	0.15	5.68
		3	(untitled)		718	2263	120	718	100	-10	98.08	23.28	214.67	103.80
		4	(untitled)		382	2263	120	2263	17	433	0.16	0.02	0.16	6.38
	Bf	1	(untitled)		818	1800	120	1800	45	98	0.83	0.19	0.48	28.17
		2	(untitled)		1082	1800	120	1099	98	-9	69.27	40.05	100.82	96.68
	C	1	(untitled)	G	493	2100	30	560	88	2	50.26	10.78	51.16	64.79
		2	(untitled)	G	564	2200	30	587	96	-6	136.62	27.38	128.65	151.30

	3	(untitled)	G	307	2050	30	547	56	60	22.91	5.47	25.31	37.83
Cf	1	(untitled)		493	1965	120	1965	25	259	0.31	0.04	0.17	17.66
	2	(untitled)		871	1965	120	871	100	-10	111.14	38.91	153.40	128.64
D	1	(untitled)	B	355	2050	40	718	50	82	25.22	4.57	47.75	29.34
	2	(untitled)	B	648	1850	40	648	100	-10	101.84	21.52	224.95	105.96
	3	(untitled)	B	761	2250	40	761	100	-10	85.17	20.27	220.42	89.13
Dc	1	(untitled)	A	925	2100	60	1085	85	6	19.15	9.30	105.59	22.95
	2	(untitled)	A	749	2100	60	1085	69	30	11.81	7.62	89.95	15.47
	3	(untitled)	A	658	2100	60	782	84	7	19.44	8.05	98.92	22.95
	4	(untitled)	A	869	2100	60	869	100	-10	75.93	21.21	272.08	79.30
Dcf	1	(untitled)		859	2050	120	2050	42	115	0.63	0.15	1.31	5.58
	2	(untitled)		1210	2100	120	1473	82	10	11.04	10.53	91.84	15.98
	3	(untitled)		749	2100	120	1886	40	127	0.83	2.34	19.60	6.38
	4	(untitled)		658	2100	120	2058	32	181	0.43	1.81	15.62	7.52
	5	(untitled)		869	2100	120	869	100	-10	80.88	25.57	219.77	85.90
Df	1	(untitled)		1547	1900	120	1003	154	-42	643.88	289.50	832.33	667.88
	2	(untitled)		905	2250	120	761	119	-24	309.48	86.95	249.99	333.48
Dxp	1	(untitled)	D	859	2050	101	1743	49	83	1.42	1.74	21.48	4.92
	2	(untitled)	D	285	2050	101	1743	16	450	0.36	0.15	1.74	4.00
Ec	1	(untitled)	F	664	2150	70	1290	51	75	7.01	4.26	48.95	10.77
	2	(untitled)	F	1262	2263	70	1358	93	-3	21.28	12.35	146.63	24.91
	3	(untitled)	F	1073	2263	70	1358	79	14	8.12	5.13	63.01	11.63
	4	(untitled)	F	563	2250	70	1350	42	116	13.21	7.07	88.56	16.65
Ecf	1	(untitled)		1043	2100	120	2097	50	81	0.86	4.89	61.17	4.31
	2	(untitled)		986	2100	120	2100	47	92	0.76	0.21	2.57	4.24
	3	(untitled)		1262	2263	120	1644	77	17	7.73	7.71	94.51	11.25
	4	(untitled)		1674	2300	120	1852	90	0	11.01	10.29	117.42	14.85
Ef	1	(untitled)		935	1900	120	835	112	-20	220.34	67.58	304.66	235.64
	2	(untitled)		521	1900	120	1900	27	228	0.36	0.05	0.23	15.66
Exp	1	(untitled)	L	1043	2050	100	1725	60	49	2.45	5.15	57.09	6.33
	2	(untitled)	L	322	2050	100	1725	19	382	0.24	2.34	25.05	4.27
F	1	(untitled)	B	247	2100	20	385	64	40	19.09	3.77	25.46	25.47

	2	(untitled)	B	138	2100	20	385	36	152	12.32	2.42	16.22	18.75
	3	(untitled)	B	244	2100	20	244	100	-10	289.55	21.25	140.07	296.09
Fc	**1**	(untitled)	A	1468	2263	80	1546	95	-5	21.47	13.61	42.72	40.56
	2	(untitled)	A	1112	2263	80	1485	75	20	7.72	7.95	25.20	26.44
	3	(untitled)	A	1100	2263	80	1434	77	17	10.18	20.77	66.24	29.57
Ff	**1**	(untitled)		385	1900	120	1900	20	345	0.24	0.03	0.05	33.33
	2	(untitled)		244	1900	120	244	100	-10	723.36	55.15	115.14	756.40
G	**1**	(untitled)	F	389	2050	28	483	81	12	51.96	10.04	37.15	67.94
	2	(untitled)	F	170	2050	28	500	34	164	40.55	2.93	11.09	51.94
Gf	**1**	(untitled)		386	2050	120	2049	19	378	0.22	4.66	66.23	3.25
	2	(untitled)		135	2050	120	2050	7	1267	0.06	0.00	0.03	3.07
xA	**1**	(untitled)		1559	2263	120	2234	70	29	2.01	7.90	19.79	19.24
	2	(untitled)		1244	2263	120	2263	55	64	0.97	0.33	0.84	18.22
xB	**1**	(untitled)		1472	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	5.79
xC	**1**	(untitled)		589	1900	120	1177	50	80	8.33	11.85	58.94	17.00
	2	(untitled)		335	1900	120	1358	25	265	3.25	4.71	23.34	11.95
xD	**1**	(untitled)		859	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.13
	2	(untitled)		285	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.21
xE	**1**	(untitled)		1043	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		322	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
xF	**1**	(untitled)		716	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
Cc1	**1**	(untitled)	E	365	2050	64	1128	32	178	5.28	2.60	15.60	11.99
E1	**1**	(untitled)	G	297	2050	28	513	58	55	36.39	5.34	38.39	42.39
	2	(untitled)	G	537	2200	28	550	98	-8	124.23	22.32	160.42	130.23
Gf1	**1**	(untitled)		38	690	120	690	5	1542	0.48	0.11	1.33	4.17
Cc2	**2**	(untitled)	D	771	2150	66	1194	65	39	11.98	7.71	48.42	19.04
	3	(untitled)	D	745	2050	66	1162	64	40	13.74	13.53	87.18	21.04
	4	(untitled)	D	902	2150	66	902	100	-10	82.04	27.83	179.85	88.94
	5	(untitled)	D	562	2050	66	562	100	-10	117.40	24.59	159.51	125.38
E2	**3**	(untitled)	H	386	2150	28	521	74	21	30.44	6.34	68.44	34.44
	4	(untitled)	H	135	2050	28	513	26	242	19.34	2.37	25.04	23.41
TC5	**2**	(untitled)	A	1204	2263	101	1942	62	45	2.23	3.20	79.91	4.99

		3	(untitled)	A	1244	2263	101	1942	64	41	1.80	1.18	29.39	4.57
		4	(untitled)	C	0	1800	11	180	0	Unrestricted	0.00	0.00	0.00	0.00
	TC9	1	(untitled)	B	564	1925	86	1428	40	128	6.49	6.34	39.74	17.49
		2	(untitled)	B	445	1966	86	442	101	-11	130.89	21.47	134.00	141.94
		3	(untitled)	B	300	1947	86	1444	21	333	5.07	2.97	18.43	16.19
	TC35	1	(untitled)	A	355	1900	101	1631	22	313	1.54	1.52	36.17	4.44
	TC36	1	(untitled)		203	1800	120	168	121	-26	385.53	25.24	575.37	388.55
	TC37	1	(untitled)	J	29	1850	105	1634	2	4988	0.04	0.00	0.03	3.23
	TC38	1	(untitled)		29	248	120	248	12	673	5.51	2.42	65.35	7.05
	TC39	2	(untitled)		1204	2263	120	2263	53	69	0.90	0.30	4.93	3.44
		3	(untitled)		1244	2263	120	2263	55	64	0.97	0.33	5.78	3.37
	TC40	2	(untitled)		1233	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		1244	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC41	1	(untitled)	D	139	1850	8	139	100	-10	315.41	12.68	133.42	319.34
	TC42	1	(untitled)	E	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC43	1	(untitled)		0	1800	120	1800	0	Unrestricted	0.00	0.00	0.00	0.00
	47	1	(untitled)		924	1300	120	1300	71	27	3.37	0.86	3.72	19.41
	48	1	(untitled)		1653	1965	120	1364	121	-26	327.03	169.16	1764.52	333.64
	49	1	(untitled)		564	1900	120	1900	30	203	0.40	0.06	1.37	3.55
		2	(untitled)		745	1900	120	1900	39	130	0.61	0.13	2.77	3.76
	50	1	(untitled)		2018	1900	120	1900	106	-15	117.89	66.08	789.20	123.66
	51	1	(untitled)		917	1900	120	629	146	-38	578.38	165.84	2545.05	582.88

Data Entry - Stage Start and End

Resultant Stage

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
769-1	1	✓	1	A	96	5	29	1	7
	2	✓	2	B	12	31	19	1	7
	3		1	A	36	65	29	1	7
	4		2	B	72	91	19	1	7
769-2	1	✓	4	D,E,H,I	97	4	27	1	3
	2	✓	5	F,G,J,K	15	23	8	1	8
	3		4	D,E,H,I	37	64	27	1	3
	4		5	F,G,J,K	75	83	8	1	8
770-1	1	✓	1	A,C	99	7	28	1	5
	2	✓	2	B	14	34	20	1	7

	3		1	A,C	39	67	28	1	5
	4		2	B	74	94	20	1	7
770-2	**1**	✓	4	D	36	17	101	1	7
	2	✓	5	E	22	29	7	1	5
770-3	**1**	✓	7	F,I,J	100	10	30	1	2
	2	✓	9	G,H	21	28	7	1	1
	3		7	F,I,J	40	70	30	1	2
	4		9	G,H	81	88	7	1	1
770-4	**1**	✓	11	L	39	19	100	1	7
	2	✓	12	M	24	32	8	1	6
771-1	**1**	✓	1	A,C	106	20	34	1	9
	2	✓	3	B	31	41	10	1	7
	3		1	A,C	46	80	34	1	9
	4		3	B	91	101	10	1	7
771-2	**1**	✓	5	D	106	18	32	1	7
	2	✓	6	E	23	41	18	1	7
	3		5	D	46	78	32	1	7
	4		6	E	83	101	18	1	7
TC777-1	**1**	✓	1	A,B,F	4	89	85	1	6
	2	✓	2	A,C,F,G	94	105	11	1	7
	3	✓	5	D,H,I	112	118	6	1	6
TC777-2	**1**	✓	1	J	45	30	105	1	7
	2	✓	2	K	35	40	5	1	5

Data Entry - Phase

Phase

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

771-1	A	A	7	300	0	0	Traffic
	B	B	7	300	0	0	Traffic
	C	C	9	300	0	0	Pedestrian
771-2	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
TC777-1	A	A	7	300	0	1	Traffic
	B	B	7	300	0	2	Traffic
	C	C	7	300	0	0	Traffic
	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
	F	F	5	300	0	0	Pedestrian
	G	G	7	300	0	0	Pedestrian
	H	H	6	300	0	0	Pedestrian
	I	I	5	300	0	0	Pedestrian
TC777-2	J	J	7	300	0	0	Traffic
	K	K	5	300	0	0	Pedestrian

Data Entry - Traffic Stream

Traffic Stream

Arm	Traffic Stream	Auto length	Length (m)	Traffic model	Max queue storage (PCU)	Traffic type	Has Saturation Flow	Is signal controlled	Is give way	Saturation flow source	Saturation flow (PCU/hr)	Delay weighting multiplier (%)	Stop weighting multiplier (%)
A	1	✓	74.52	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	76.88	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	3	✓	78.61	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	4	✓	80.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ac	1	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
Acf	1	✓	69.59	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	70.42	CTM	0.00	Normal	✓			Directly entered	2263	100	100
Af	1	✓	53.54	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	53.19	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	3	✓	53.01	CTM	0.00	Normal	✓			Directly entered	2050	100	100
B	1	✓	94.67	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Bc	1	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100

	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Bcf	**1**	✓	62.67	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	63.14	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.35	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	62.25	CTM	0.00	Normal	✓			Directly entered	2263	100	100
Bf	**1**	✓	227.81	CTM	0.00	Normal	✓			Sum of lanes	1800	100	100
	2	✓	228.44	CTM	0.00	Normal	✓			Sum of lanes	1800	100	100
C	**1**	✓	121.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	122.36	CTM	0.00	Normal	✓	✓		Directly entered	2200	100	100
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Cf	**1**	✓	144.60	CTM	0.00	Normal	✓			Sum of lanes	1965	100	100
	2	✓	145.86	CTM	0.00	Normal	✓			Sum of lanes	1965	100	100
D	**1**		55.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
	3	✓	52.87	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
Dc	**1**	✓	50.67	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	48.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	46.78	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	4	✓	44.83	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
Dcf	**1**	✓	65.95	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.92	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	68.61	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	66.73	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.90	CTM	0.00	Normal	✓			Directly entered	2100	100	100
Df	**1**		200.00	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
	2		200.00	NetworkDefault	0.00	Normal	✓			Directly entered	2250	100	100
Dxp	**1**	✓	46.62	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.64	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	**1**	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	4	✓	45.93	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100

Ecf	**1**	✓	45.94	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	2	✓	46.37	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	46.93	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	50.37	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	**1**	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	**1**	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	**1**	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
Fc	**1**	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
Ff	**1**	✓	275.73	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
	2	✓	275.39	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
G	**1**	✓	155.36	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	151.80	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Gf	**1**	✓	40.48	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	40.06	CTM	0.00	Normal	✓			Directly entered	2050	100	100
xA	**1**	✓	229.66	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	229.97	CTM	0.00	Normal	✓			Directly entered	2263	100	100
xB	**1**	✓	77.15	NetworkDefault	0.00	Normal						100	100
xC	**1**	✓	115.60	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
	2	✓	115.98	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
xD	**1**	✓	121.71	NetworkDefault	0.00	Normal						100	100
	2	✓	122.74	NetworkDefault	0.00	Normal						100	100
xE	**1**	✓	173.89	NetworkDefault	0.00	Normal						100	100
	2	✓	173.83	NetworkDefault	0.00	Normal						100	100
xF	**1**	✓	162.53	NetworkDefault	0.00	Normal						100	100
Cc1	**1**	✓	95.84	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
E1	**1**		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100

	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	100	100
Gf1	**1**	✓	49.26	NetworkDefault	0.00	Normal			✓			100	100
Cc2	**2**	✓	91.58	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	3	✓	89.25	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	4	✓	88.96	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	5	✓	88.65	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
E2	**3**	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
TC5	**2**	✓	23.03	CTM	0.00	Normal	✓	✓		Sum of lanes	2263	100	100
	3	✓	23.02	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	4	✓	24.43	CTM	0.00	Normal	✓	✓		Sum of lanes	1800	100	100
TC9	**1**	✓	91.71	CTM	0.00	Normal	✓	✓		Directly entered	1925	100	100
	2	✓	92.11	CTM	0.00	Normal	✓	✓		Sum of lanes	1966	100	100
	3	✓	92.69	CTM	0.00	Normal	✓	✓		Sum of lanes	1947	100	100
TC35	**1**	✓	24.16	CTM	0.00	Normal	✓	✓		Directly entered	1900	100	100
TC36	**1**	✓	25.22	NetworkDefault	0.00	Normal	✓			Sum of lanes	1800	100	100
TC37	**1**	✓	44.32	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
TC38	**1**	✓	21.32	CTM	0.00	Normal	✓		✓	Directly entered	1850	100	100
TC39	**2**	✓	35.24	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	33.28	CTM	0.00	Normal	✓			Directly entered	2263	100	100
TC40	**2**	✓	58.74	PDM	0.00	Normal						100	100
	3	✓	55.82	PDM	0.00	Normal						100	100
TC41	**1**	✓	54.63	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
TC42	**1**	✓	23.35	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1771	100	100
TC43	**1**	✓	51.77	NetworkDefault	0.00	Normal	✓			Sum of lanes	1800	100	100
47	**1**	✓	133.63	CTM	0.00	Normal	✓			Directly entered	1300	100	100
48	**1**	✓	55.12	NetworkDefault	0.00	Normal	✓			Sum of lanes	1965	100	100
49	**1**	✓	26.24	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	26.24	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
50	**1**	✓	48.15	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
51	**1**	✓	37.47	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100

Data entry - Link

Results - Pedestrian

Pedestrian Crossings: Pedestrian summary

Time Segment	Pedestrian crossing	Side	Calculated Flow Entering (Ped/hr)	Degree of saturation (%)	Actual green (s (per cycle))	Mean Delay Per Ped (s)	Mean max queue (Ped)
07:30-08:30	1	1	0	0	7	0.00	0.00
		2	0	0	7	0.00	0.00
	2	1	0	0	56	0.00	0.00
		2	0	0	56	0.00	0.00
	3	1	0	0	8	0.00	0.00
		2	0	0	8	0.00	0.00
	4	1	0	0	68	0.00	0.00
		2	0	0	68	0.00	0.00
	5	1	0	0	68	0.00	0.00
		2	0	0	68	0.00	0.00
	6	1	0	0	0	0.00	0.00
		2	0	0	0	0.00	0.00
	7	1	0	0	68	0.00	0.00
		2	0	0	68	0.00	0.00
	8	1	0	0	0	0.00	0.00
		2	0	0	0	0.00	0.00
	9	1	0	0	20	0.00	0.00
		2	0	0	20	0.00	0.00
	10	1	0	0	32	0.00	0.00
		2	0	0	32	0.00	0.00
	11	1	0	0	64	0.00	0.00
		2	0	0	64	0.00	0.00
	12	1	0	0	62	0.00	0.00
		2	0	0	62	0.00	0.00
	13	1	0	0	8	0.00	0.00
		2	0	0	8	0.00	0.00
	14	1	0	0	102	0.00	0.00
		2	0	0	102	0.00	0.00
	15	1	0	0	11	0.00	0.00
		2	0	0	11	0.00	0.00
	16	1	0	0	6	0.00	0.00
		2	0	0	6	0.00	0.00
	17	1	0	0	5	0.00	0.00
		2	0	0	5	0.00	0.00

Collections

Point to Point Journey Time

Average Journey Time (s) for Local Matrix: 1

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	0.0	234.5	234.9	308.7	321.7	409.8	644.7	0.0
	B28	751.6	0.0	439.6	662.5	523.4	739.4	743.6	0.0
	C28	539.5	525.7	0.0	734.1	726.8	875.8	810.0	0.0
	D28	678.6	936.2	2340.5	0.0	2302.4	669.8	678.4	0.0
	E28	426.6	151.9	1129.0	290.2	0.0	348.5	355.6	0.0
	F28	756.6	798.3	1129.7	1090.6	1120.5	0.0	403.1	0.0

	G28	63.2	102.2	657.2	115.3	537.9	211.3	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)	Normal journey dist (m)	Bus journeydist (m)	Tram journey dist (m)	Pedestrian journey dist (m)	Calculated Total Flow (PCU/hr)	Avg journey time (s)	Avg journey dist (m)
23	C28	A28	630	535.83	834.67	0.00	0.00	0.00	630	535.83	834.67
24	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
25	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
32	C28	E28	182	726.80	526.66	0.00	0.00	0.00	182	726.80	526.66
36	C28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
41	E28	A28	522	429.42	693.05	0.00	0.00	0.00	522	429.42	693.05
42	E28	C28	40	1116.90	1065.88	0.00	0.00	0.00	40	1116.90	1065.88
43	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
44	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
45	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
49	C28	D28	366	734.05	514.00	0.00	0.00	0.00	366	734.05	514.00
50	E28	D28	58	290.22	370.08	0.00	0.00	0.00	58	290.22	370.08
68	E28	G28	191	357.27	737.43	0.00	0.00	0.00	191	357.27	737.43
86	F28	D28	31	807.50	871.13	0.00	0.00	0.00	31	807.50	871.13
91	C28	F28	45	875.76	787.40	0.00	0.00	0.00	45	875.76	787.40
92	E28	F28	40	348.54	644.57	0.00	0.00	0.00	40	348.54	644.57
96	A28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
97	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
98	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
99	C28	B28	42	524.21	753.91	0.00	0.00	0.00	42	524.21	753.91
100	E28	B28	135	128.60	623.35	0.00	0.00	0.00	135	128.60	623.35
101	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
102	A28	C28	367	226.07	696.48	0.00	0.00	0.00	367	226.07	696.48
103	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
104	C28	G28	717	884.49	880.25	0.00	0.00	0.00	717	884.49	880.25
105	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
106	G28	C28	161	718.96	769.84	0.00	0.00	0.00	161	718.96	769.84
107	A28	B28	28	232.12	716.08	0.00	0.00	0.00	28	232.12	716.08
108	B28	G28	332	740.78	1057.75	0.00	0.00	0.00	332	740.78	1057.75
109	C28	G28	230	509.61	873.55	0.00	0.00	0.00	230	509.61	873.55
110	E28	G28	22	340.71	731.08	0.00	0.00	0.00	22	340.71	731.08
111	B28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
112	F28	G28	35	403.06	149.60	0.00	0.00	0.00	35	403.06	149.60
113	F28	A28	66	756.57	347.74	0.00	0.00	0.00	66	756.57	347.74
114	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
115	B28	C28	9	446.99	558.16	0.00	0.00	0.00	9	446.99	558.16
116	F28	C28	6	1259.49	731.34	0.00	0.00	0.00	6	1259.49	731.34
117	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
118	F28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
119	F28	E28	2	917.28	882.77	0.00	0.00	0.00	2	917.28	882.77
120	F28	E28	2	807.38	886.05	0.00	0.00	0.00	2	807.38	886.05
121	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
122	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
123	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
124	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
125	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
126	D28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
127	D28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

128	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
129	F28	C28	6	790.66	732.12	0.00	0.00	0.00	6	790.66	732.12
130	G28	C28	161	802.29	770.24	0.00	0.00	0.00	161	802.29	770.24
131	G28	E28	123	836.96	921.19	0.00	0.00	0.00	123	836.96	921.19
132	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
133	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
134	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
135	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
136	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
137	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
138	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
139	D28	E28	6	2487.43	1229.52	0.00	0.00	0.00	6	2487.43	1229.52
140	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
141	D28	E28	6	2473.41	1232.51	0.00	0.00	0.00	6	2473.41	1232.51
142	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
143	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
144	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
145	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
146	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
147	F28	E28	2	1384.19	882.69	0.00	0.00	0.00	2	1384.19	882.69
148	F28	D28	31	1373.64	870.77	0.00	0.00	0.00	31	1373.64	870.77
149	C28	B28	3	546.76	757.09	0.00	0.00	0.00	3	546.76	757.09
150	E28	B28	386	160.07	625.89	0.00	0.00	0.00	386	160.07	625.89
151	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
152	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
153	F28	B28	14	798.30	751.33	0.00	0.00	0.00	14	798.30	751.33
154	E28	A28	18	343.43	694.21	0.00	0.00	0.00	18	343.43	694.21
155	E28	C28	4	391.03	1072.77	0.00	0.00	0.00	4	391.03	1072.77
156	C28	G28	60	863.10	875.68	0.00	0.00	0.00	60	863.10	875.68
157	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
158	B28	D28	294	662.50	699.67	0.00	0.00	0.00	294	662.50	699.67
159	B28	E28	145	662.36	714.59	0.00	0.00	0.00	145	662.36	714.59
160	B28	G28	206	748.16	1062.09	0.00	0.00	0.00	206	748.16	1062.09
161	B28	F28	39	739.43	969.24	0.00	0.00	0.00	39	739.43	969.24
162	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
163	B28	A28	40	751.58	1018.87	0.00	0.00	0.00	40	751.58	1018.87
164	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
165	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
166	B28	C28	106	438.97	555.13	0.00	0.00	0.00	106	438.97	555.13
167	B28	E28	482	481.61	709.11	0.00	0.00	0.00	482	481.61	709.11
168	G28	A28	365	63.16	385.83	0.00	0.00	0.00	365	63.16	385.83
169	G28	B28	70	103.54	789.43	0.00	0.00	0.00	70	103.54	789.43
170	G28	B28	70	100.90	789.81	0.00	0.00	0.00	70	100.90	789.81
171	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
175	G28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
176	G28	E28	71	222.37	921.85	0.00	0.00	0.00	71	222.37	921.85
177	G28	D28	131	115.34	910.21	0.00	0.00	0.00	131	115.34	910.21
178	G28	E28	34	114.80	925.13	0.00	0.00	0.00	34	114.80	925.13
181	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
185	A28	B28	28	236.88	715.70	0.00	0.00	0.00	28	236.88	715.70
186	A28	C28	49	300.98	699.40	0.00	0.00	0.00	49	300.98	699.40
187	A28	E28	327	323.79	850.36	0.00	0.00	0.00	327	323.79	850.36
195	D28	G28	198	678.79	744.99	0.00	0.00	0.00	198	678.79	744.99
196	D28	F28	109	669.75	652.14	0.00	0.00	0.00	109	669.75	652.14
197	D28	G28	53	677.11	740.41	0.00	0.00	0.00	53	677.11	740.41
198	D28	A28	3	678.57	704.14	0.00	0.00	0.00	3	678.57	704.14

199	D28	B28	99	716.70	1101.91	0.00	0.00	0.00	99	716.70	1101.91
200	D28	B28	99	714.08	1102.29	0.00	0.00	0.00	99	714.08	1102.29
201	D28	C28	230	2362.90	1078.16	0.00	0.00	0.00	230	2362.90	1078.16
204	D28	C28	45	2225.94	1077.09	0.00	0.00	0.00	45	2225.94	1077.09
205	D28	E28	27	2255.51	1228.05	0.00	0.00	0.00	27	2255.51	1228.05
206	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
207	D28	E28	6	2169.76	1231.32	0.00	0.00	0.00	6	2169.76	1231.32
210	A28	G28	617	754.28	1200.07	0.00	0.00	0.00	617	754.28	1200.07
211	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
212	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
213	A28	E28	102	323.87	856.77	0.00	0.00	0.00	102	323.87	856.77
214	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
215	G28	F28	64	211.26	1179.78	0.00	0.00	0.00	64	211.26	1179.78
218	A28	G28	289	418.63	1204.28	0.00	0.00	0.00	289	418.63	1204.28
219	A28	F28	131	409.77	1111.43	0.00	0.00	0.00	131	409.77	1111.43
220	H28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
221	F28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
222	A28	D28	2	308.68	838.43	0.00	0.00	0.00	2	308.68	838.43
223	A28	E28	68	308.41	853.35	0.00	0.00	0.00	68	308.41	853.35
224	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
225	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
226	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
227	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
228	F28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
229	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
230	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
231	A28	G28	10	417.32	1199.70	0.00	0.00	0.00	10	417.32	1199.70
232	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
233	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
234	C28	G28	170	883.48	875.67	0.00	0.00	0.00	170	883.48	875.67
235	E28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
236	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
237	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
238	D28	B28	36	2150.96	1099.55	0.00	0.00	0.00	36	2150.96	1099.55
239	D28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
240	G28	C28	59	94.50	770.21	0.00	0.00	0.00	59	94.50	770.21
241	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
242	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
243	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
244	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
245	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
246	E28	C28	40	1214.95	1066.29	0.00	0.00	0.00	40	1214.95	1066.29
247	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
248	D28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
249	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
250	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
251	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
252	F28	C28	6	1338.88	731.74	0.00	0.00	0.00	6	1338.88	731.74
253	F28	E28	2	1373.05	885.69	0.00	0.00	0.00	2	1373.05	885.69
254	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
255	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
256	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
257	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
258	C28	A28	7	869.44	838.81	0.00	0.00	0.00	7	869.44	838.81
259	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
260	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

261	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
262	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
263	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
264	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
265	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
266	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
267	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

Final Prediction Table

Traffic Stream Results

				SIGNALS		FLOWS		PERFORMANCE				PER PCU			QUEUES	WEIGHTS		PENALTIES	P.I.
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)**	**Delay weighting multiplier (%)**	**Stop weighting multiplier (%)**	**Cost of traffic penalties (£ per hr)**	**P.I.**
A	**1**	(untitled)	6	771-2	E	420	2050	36	0.00	65	39	24.18	18.60	85.50	7.60	100	100	0.00	42.28
	2	(untitled)	6	771-2	E	216	2050	36	0.00	33	171	17.97	12.21	70.77	2.84	100	100	0.00	15.27
	3	(untitled)	6	771-2	E	480 <	2050	36	9.88	100	-10	150.95	145.05	161.18	22.08 +	100	100	0.00	299.76
	4	(untitled)	6	771-2	E	329	2050	36	0.00	51	78	21.66	15.64	81.36	5.29	100	100	0.00	28.87
Ac	**1**	(untitled)	6	771-2	D	1052	2263	64	3.00	84	7	25.79	18.60	51.09	16.15	100	100	0.00	94.43
	2	(untitled)	6	771-2	D	139	2263	64	43.17	11	690	10.68	1.19	38.98	1.95	100	100	0.00	1.58
	3	(untitled)	6	771-2	D	316 <	2263	64	49.27	100	-10	239.13	232.53	219.21	22.32 +	100	100	0.00	311.63
Acf	**1**	(untitled)	6			1191	2263	120	23.03	53	71	6.10	0.88	0.78	7.25	100	100	0.00	4.46
	2	(untitled)	6			316 <	2263	120	103.27	100	-10	210.73	203.49	197.67	20.23 +	100	100	0.00	263.94
Af	**1**	(untitled)	6			635	2050	120	22.00	31	191	6.82	0.39	0.00	0.07	100	100	0.00	0.99
	2	(untitled)	6			481 <	2050	120	91.88	100	-10	129.63	123.25	143.19	19.20 +	100	100	0.00	242.24
	3	(untitled)	6			329	2050	120	22.00	16	461	6.53	0.17	0.00	0.02	100	100	0.00	0.22
B	**1**	(untitled)	1	769-1	B	398	2050	38	0.00	58	54	27.31	20.21	79.05	5.35	100	100	0.00	41.86
	2	(untitled)	1	769-1	B	420	2150	38	0.52	59	52	27.65	20.36	79.66	5.62	100	100	0.00	44.46
	3	(untitled)	1	769-1	B	485	2100	38	10.67	70	28	39.57	32.09	109.94	8.91	100	100	0.00	78.48
	4	(untitled)	1	769-1	B	562 <	2050	38	7.08	100	-10	158.82	146.53	238.67	28.77 +	100	100	0.00	341.84
Bc	**1**	(untitled)	1	769-1	A	379	2050	58	10.00	37	143	14.68	2.72	9.96	0.64	100	100	0.00	4.92

	2	(untitled)	1	769-1	A	718 <	2050	58	17.99	100	-10	149.50	137.67	246.43	34.19 +	100	100	0.00	429.23
	3	(untitled)	1	769-1	A	382	2050	58	17.49	43	111	15.48	3.77	34.68	5.96	100	100	0.00	8.65
Bcf	**1**	(untitled)	1			1472	2263	120	19.00	65	38	5.65	1.48	0.00	0.60	100	100	0.00	8.57
	2	(untitled)	1			379	2263	120	48.00	17	437	5.68	0.16	0.00	0.02	100	100	0.00	0.24
	3	(untitled)	1			718 <	2263	120	81.94	100	-10	103.80	98.08	125.06	23.28 +	100	100	0.00	300.83
	4	(untitled)	1			382	2263	120	48.00	17	433	6.38	0.16	0.00	0.02	100	100	0.00	0.24
Bf	**1**	(untitled)	1			818	1800	120	0.00	45	98	28.17	0.83	0.00	0.19	100	100	0.00	2.69
	2	(untitled)	1			1082 <	1800	120	46.73	98	-9	96.68	69.27	179.13	40.05 +	100	100	0.00	319.11
C	**1**	(untitled)	2	769-2	G	493	2100	30	0.00	88	2	64.79	50.26	128.34	10.78	100	100	0.00	105.58
	2	(untitled)	2	769-2	G	564 <	2200	30	0.00	96	-6	151.30	136.62	250.08	27.38 +	100	100	0.00	321.86
	3	(untitled)	2	769-2	G	307	2050	30	12.00	56	60	37.83	22.91	106.85	5.47	100	100	0.00	31.85
Cf	**1**	(untitled)	2			493	1965	120	26.00	25	259	17.66	0.31	0.00	0.04	100	100	0.00	0.60
	2	(untitled)	2			871 <	1965	120	66.79	100	-10	128.64	111.14	213.44	38.91 +	100	100	0.00	405.32
D	**1**	(untitled)	3	770-1	B	355	2050	40	2.00	50	82	29.34	25.22	77.11	4.57	100	100	0.00	44.12
	2	(untitled)	3	770-1	B	648 <	1850	40	0.00	100	-10	105.96	101.84	130.30	21.52 +	100	100	0.00	287.17
	3	(untitled)	3	770-1	B	761 <	2250	40	1.41	100	-10	89.13	85.17	97.08	20.27 +	100	100	0.00	279.40
Dc	**1**	(untitled)	3	770-1	A	925 <	2100	60	0.00	85	6	22.95	19.15	60.57	9.30 +	100	100	0.00	87.81
	2	(untitled)	3	770-1	A	749	2100	60	0.00	69	30	15.47	11.81	58.47	7.62	100	100	0.00	48.95
	3	(untitled)	3	770-1	A	658	2100	60	17.31	84	7	22.95	19.44	82.91	8.05	100	100	0.00	67.97
	4	(untitled)	3	770-1	A	869 <	2100	60	12.33	100	-10	79.30	75.93	103.09	21.21 +	100	100	0.00	289.12
Dcf	**1**	(untitled)	3			859	2050	120	22.00	42	115	5.58	0.63	0.00	0.15	100	100	0.00	2.14
	2	(untitled)	3			1210	2100	120	46.82	82	10	15.98	11.04	48.58	10.53	100	100	0.00	71.53
	3	(untitled)	3			749	2100	120	31.21	40	127	6.38	0.83	4.82	2.34	100	100	0.00	3.53
	4	(untitled)	3			658	2100	120	30.42	32	181	7.52	0.43	1.96	1.81	100	100	0.00	1.36
	5	(untitled)	3			869 <	2100	120	70.33	100	-10	85.90	80.88	125.17	25.57 +	100	100	0.00	312.24
Df	**1**	(untitled)	3-2			1547 <	1900	120	56.67	154	-42	667.88	638.88	405.86	289.50 +	100	100	0.00	3979.99
	2	(untitled)	3-2			905 <	2250	120	79.41	119	-24	333.48	309.48	315.95	86.95 +	100	100	0.00	1134.91

Dxp	**1**	(untitled)	3-2	770-2	D	859	2050	101	8.00	49	83	4.92	1.42	5.48	1.74	100	100	0.00	6.33
	2	(untitled)	3-2	770-2	D	285	2050	101	49.00	16	450	4.00	0.36	1.46	0.15	100	100	0.00	0.53
Ec	**1**	(untitled)	4	770-3	F	664	2150	70	10.00	51	75	10.77	7.01	39.09	4.26	100	100	0.00	26.69
	2	(untitled)	4	770-3	F	1262 <	2263	70	0.00	93	-3	24.91	21.28	57.10	12.35 +	100	100	0.00	129.08
	3	(untitled)	4	770-3	F	1073	2263	70	2.00	79	14	11.63	8.12	28.48	5.13	100	100	0.00	44.20
	4	(untitled)	4	770-3	F	563	2250	70	24.00	42	116	16.65	13.21	75.33	7.07	100	100	0.00	42.93
Ecf	**1**	(untitled)	4			1043	2100	120	22.20	50	81	4.31	0.86	1.72	4.89	100	100	0.00	4.11
	2	(untitled)	4			986	2100	120	20.00	47	92	4.24	0.76	0.00	0.21	100	100	0.00	2.95
	3	(untitled)	4			1262	2263	120	40.83	77	17	11.25	7.73	35.87	7.71	100	100	0.00	53.00
	4	(untitled)	4			1674 <	2300	120	31.37	90	0	14.85	11.01	36.30	10.29 +	100	100	0.00	91.91
Ef	**1**	(untitled)	4			935 <	1900	120	67.28	112	-20	235.64	220.34	282.58	67.58 +	100	100	0.00	842.20
	2	(untitled)	4			521	1900	120	0.00	27	228	15.66	0.36	0.00	0.05	100	100	0.00	0.74
Exp	**1**	(untitled)	4-2	770-4	L	1043	2050	100	17.00	60	49	6.33	2.45	10.14	5.15	100	100	0.00	13.45
	2	(untitled)	4-2	770-4	L	322	2050	100	40.00	19	382	4.27	0.24	0.47	2.34	100	100	0.00	0.35
F	**1**	(untitled)	5	771-1	B	247	2100	20	0.00	64	40	25.47	19.09	89.92	3.77	100	100	0.00	25.70
	2	(untitled)	5	771-1	B	138	2100	20	0.00	36	152	18.75	12.32	73.88	2.42	100	100	0.00	9.96
	3	(untitled)	5	771-1	B	244 <	2100	20	8.05	100	-10	296.09	289.55	268.62	21.25 +	100	100	0.00	299.89
Fc	**1**	(untitled)	5	771-1	A	1468	2263	80	4.00	95	-5	40.56	21.47	53.46	13.61	100	100	0.00	137.44
	2	(untitled)	5	771-1	A	1112	2263	80	11.25	75	20	26.44	7.72	42.70	7.95	100	100	0.00	41.93
	3	(untitled)	5	771-1	A	1100	2263	80	12.97	77	17	29.57	10.18	100.37	20.77	100	100	0.00	61.51
Ff	**1**	(untitled)	5			385	1900	120	34.00	20	345	33.33	0.24	0.02	0.03	100	100	0.00	0.37
	2	(untitled)	5			244 <	1900	120	104.58	100	-10	756.40	723.36	532.34	55.15 +	100	100	0.00	712.68
G	**1**	(untitled)	2	769-2	F	389	2050	28	5.76	81	12	67.94	51.96	125.66	10.04	100	100	0.00	87.97
	2	(untitled)	2	769-2	F	170	2050	28	18.73	34	164	51.94	40.55	109.69	2.93	100	100	0.00	33.24
Gf	**1**	(untitled)	4			386	2050	120	90.07	19	378	3.25	0.22	0.66	4.66	100	100	0.00	0.41
	2	(untitled)	4			135	2050	120	90.00	7	1267	3.07	0.06	0.00	0.00	100	100	0.00	0.03
xA	**1**	(untitled)	10			1559	2263	120	19.55	70	29	19.24	2.01	5.60	7.90	100	100	0.00	15.19
	2	(untitled)	10			1244	2263	120	32.00	55	64	18.22	0.97	0.00	0.33	100	100	0.00	4.75
xB	**1**	(untitled)				1472	Unrestricted	120	1.00	0	Unrestricted	5.79	0.00	0.00	0.00	100	100	0.00	0.00
xC	**1**	(untitled)				589	1900	120	57.65	50	80	17.00	8.33	60.30	11.85	100	100	0.00	30.76

	2	(untitled)				335	1900	120	64.21	25	265	11.95	3.25	45.46	4.71	100	100	0.00	9.17
xD	**1**	(untitled)				859	Unrestricted	120	10.00	0	Unrestricted	9.13	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				285	Unrestricted	120	52.00	0	Unrestricted	9.21	0.00	0.00	0.00	100	100	0.00	0.00
xE	**1**	(untitled)				1043	Unrestricted	120	10.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				322	Unrestricted	120	48.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
xF	**1**	(untitled)				716	Unrestricted	120	6.00	0	Unrestricted	12.19	0.00	0.00	0.00	100	100	0.00	0.00
Cc1	**1**	(untitled)	2	769-2	E	365	2050	64	14.00	32	178	11.99	5.28	24.62	2.60	100	100	0.00	11.00
E1	**1**	(untitled)	4	770-3	G	297	2050	28	12.00	58	55	42.39	36.39	107.61	5.34	100	100	0.00	52.94
	2	(untitled)	4	770-3	G	537 <	2200	28	0.00	98	-8	130.23	124.23	191.18	22.32 +	100	100	0.00	296.36
Gf1	**1**	(untitled)	4			38	690	120	82.00	5	1542	4.17	0.48	10.45	0.11	100	100	0.00	0.20
Cc2	**2**	(untitled)	2	769-2	D	771	2150	66	1.35	65	39	19.04	11.98	55.75	7.71	100	100	0.00	50.38
	3	(untitled)	2	769-2	D	745	2050	66	8.00	64	40	21.04	13.74	78.63	13.53	100	100	0.00	57.19
	4	(untitled)	2	769-2	D	902 <	2150	66	17.68	100	-10	88.94	82.04	161.33	27.83 +	100	100	0.00	338.40
	5	(untitled)	2	769-2	D	562 <	2050	66	35.08	100	-10	125.38	117.40	227.31	24.59 +	100	100	0.00	288.88
E2	**3**	(untitled)	4	770-3	H	386	2150	28	0.93	74	21	34.44	30.44	97.59	6.34	100	100	0.00	58.44
	4	(untitled)	4	770-3	H	135	2050	28	0.00	26	242	23.41	19.34	77.08	2.37	100	100	0.00	13.64
TC5	**2**	(untitled)	TC771-6	TC777-1	A	1204	2263	101	11.00	62	45	4.99	2.23	7.96	3.20	100	100	0.00	11.80
	3	(untitled)	TC771-6	TC777-1	A	1244	2263	101	21.00	64	41	4.57	1.80	2.83	1.18	100	100	0.00	9.29
	4	(untitled)	TC771-6	TC777-1	C	0	1800	11	12.00	0	Unrestricted	0.00	0.00	0.00	0.00	100	100	0.00	0.00
TC9	**1**	(untitled)	TC771-6	TC777-1	B	564	1925	86	0.00	40	128	17.49	6.49	33.36	6.34	100	100	0.00	16.79
	2	(untitled)	TC771-6	TC777-1	B	445 <	1966	86	62.04	101	-11	141.94	130.89	182.15	21.47 +	100	100	0.00	239.84
	3	(untitled)	TC771-6	TC777-1	B	300	1947	86	0.00	21	333	16.19	5.07	28.22	2.97	100	100	0.00	7.06
TC35	**1**	(untitled)	TC771-6	TC777-1	A	355	1900	101	11.00	22	313	4.44	1.54	11.16	1.52	100	100	0.00	2.66
TC36	**1**	(untitled)	TC771-6			203 <	1800	120	108.82	121	-26	388.55	385.53	283.95	25.24 +	100	100	0.00	314.67
TC37	**1**	(untitled)	TC771-6	TC777-2	J	29	1850	105	88.00	2	4988	3.23	0.04	0.21	0.00	100	100	0.00	0.01
TC38	**1**	(untitled)	TC771-6			29	248	120	74.00	12	673	7.05	5.51	49.35	2.42	100	100	0.00	1.13

TC39	2	(untitled)	TC771-6			1204	2263	120	28.00	53	69	3.44	0.90	0.00	0.30	100	100	0.00	4.29
	3	(untitled)	TC771-6			1244	2263	120	38.00	55	64	3.37	0.97	0.00	0.33	100	100	0.00	4.75
TC40	2	(untitled)	TC771-6			1233	Unrestricted	120	10.00	0	Unrestricted	4.23	0.00	0.00	0.00	100	100	0.00	0.00
	3	(untitled)	TC771-6			1244	Unrestricted	120	18.00	0	Unrestricted	4.02	0.00	0.00	0.00	100	100	0.00	0.00
TC41	1	(untitled)	TC771-6	TC777-1	D	139 <	1850	8	0.00	100	-10	319.34	315.41	210.02	12.68 +	100	100	0.00	182.77
TC42	1	(untitled)	TC771-6	TC777-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
TC43	1	(untitled)				0	1800	120	120.00	0	Unrestricted	0.00	0.00	0.00	0.00	100	100	0.00	0.00
47	1	(untitled)	2			924	1300	120	12.00	71	27	19.41	3.37	0.00	0.86	100	100	0.00	12.27
48	1	(untitled)	2			1653 <	1965	120	36.70	121	-26	333.64	327.03	325.04	169.16 +	100	100	0.00	2187.88
49	1	(untitled)	TC771-6			564	1900	120	0.00	30	203	3.55	0.40	0.00	0.06	100	100	0.00	0.89
	2	(untitled)	TC771-6			745	1900	120	0.00	39	130	3.76	0.61	0.00	0.13	100	100	0.00	1.79
50	1	(untitled)	1			2018 <	1900	120	0.00	106	-15	123.66	117.89	76.22	66.08 +	100	100	0.00	956.51
51	1	(untitled)	4-2			917 <	1900	120	80.29	146	-38	582.88	578.38	362.63	165.84 +	100	100	0.00	2120.63

Pedestrian Crossing Results

				SIGNALS		FLOWS		PERFORMANCE			PER PED		QUEUES	WEIGHTS	PENALTIES	P.I.
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	Journey Time (s)	Mean Delay per Ped (s)	Mean max queue (Ped)	Delay weighting (%)	Cost of traffic penalties (£ per hr)	P.I.
1	1	(untitled)	3-2	770-2	E	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3-2	770-2	E	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
2	1	(untitled)	3	770-1	C	0	11000	56	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3	770-1	C	0	11000	56	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
3	1	(untitled)	4-2	770-4	M	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4-2	770-4	M	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
4	1	(untitled)	4	770-3	J	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	J	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
5	1	(untitled)	4	770-3	I	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00

	2	(untitled)	4	770-3	I	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
6	1	(untitled)	4	770-3	K	0	0	0	0	-100	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	K	0	0	0	0	-100	0.00	0.00	0.00	100	0.00	0.00
7	1	(untitled)	5	771-1	C	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	5	771-1	C	0	11000	68	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
8	1	(untitled)	1	769-1	C	0	0	0	0	-100	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	1	769-1	C	0	0	0	0	-100	0.00	0.00	0.00	100	0.00	0.00
9	1	(untitled)	2	769-2	J	0	11000	20	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	J	0	11000	20	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
10	1	(untitled)	2	769-2	K	0	11000	32	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	K	0	11000	32	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
11	1	(untitled)		769-2	H	0	11000	64	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		769-2	H	0	11000	64	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
12	1	(untitled)	2	769-2	I	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	I	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
13	1	(untitled)		TC777-1	I	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	I	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
14	1	(untitled)		TC777-1	F	0	11000	102	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	F	0	11000	102	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
15	1	(untitled)		TC777-1	G	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	G	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
16	1	(untitled)		TC777-1	H	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	H	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
17	1	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00

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	7111.72	1538.16	4.62	1352.55	19206.21	1127.99	0.00	20334.21
Bus								
Tram								
Pedestrians	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	7111.72	1538.16	4.62	1352.55	19206.21	1127.99	0.00	20334.21

- *< = 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***

TRANSYT 16

Version: 16.0.1.8473

For sales and distribution information, program advice and maintenance, contact TRL:
+44 (0)1344 379777 software@trl.co.uk www.trlsoftware.co.uk

Filename: M62 JN 28 CRF Scheme_Mar 20_PF_Sept 20_RevE.t16
Path: P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\Transyt\Base
Report generation date: 24/01/2021 11:21:49

Summary of network performance

	Set ID	Cycle time (s)	PI (£ per hr)	Total delay (PCU-hr/hr)	Highest DOS	Number oversaturated
	PM Base 2032 + Com Dev + CP + Dev - PM 2032 + Com Dev + CP + Dev					
Network	A16 D16	60	19042.12	1250.00	159% (TS 51/1)	34 (23%)

There are warnings associated with this model run - see the 'Data Errors and Warnings' tables.

File summary

File description

File title	(untitled)
Location	
Site number	
UTCRegion	
Driving side	Left

Date	01/03/2017
Version	
Status	[no status]
Identifier	
Client	
Jobnumber	
Enumerator	LEEDS\00730414
Description	

Model and Results

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

Units

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

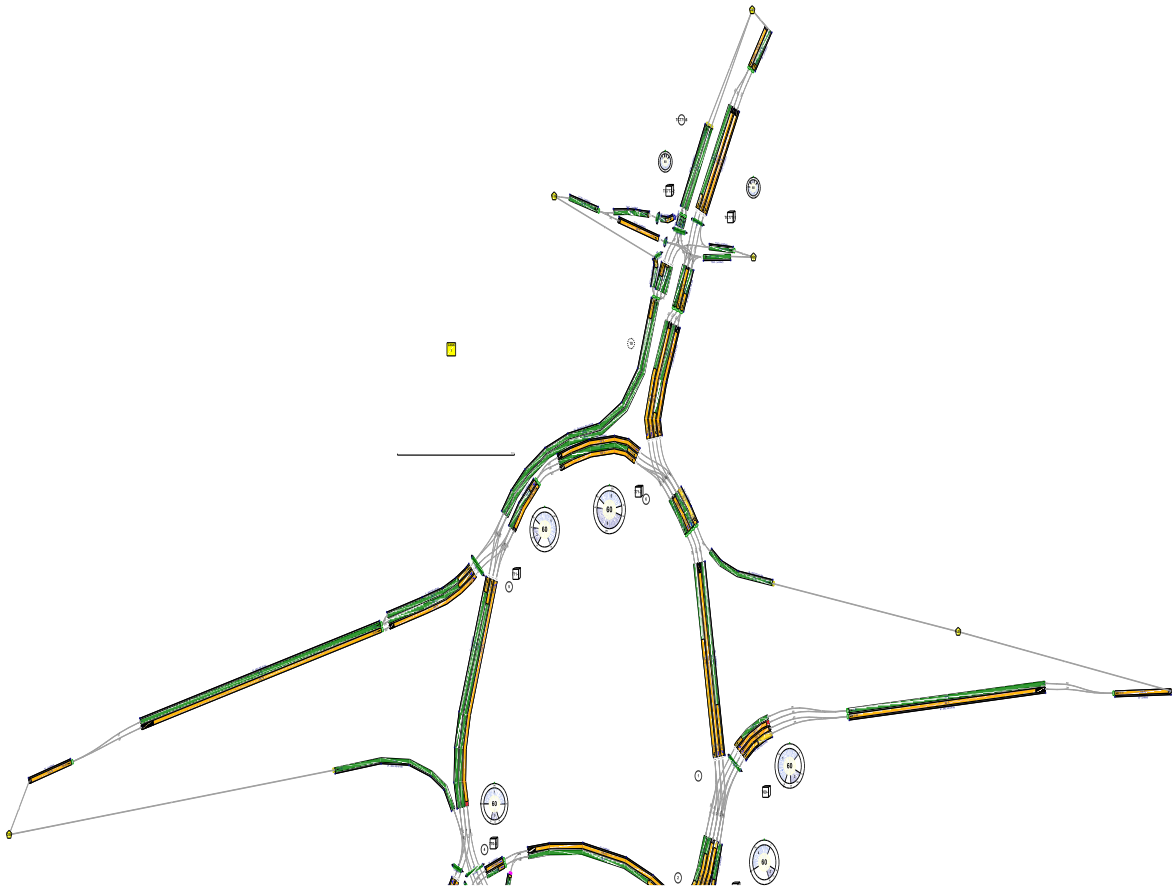
Sorting

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

Simulation options

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

Network Diagrams



A16 - PM Base 2032 + Com Dev + CP + Dev D16 - PM 2032 + Com Dev + CP + Dev,

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	Local Matrix	Local Matrix 1	Local Matrix 1: Resultant Flows have warnings in one or more time segments - see the Resultant Flows tab of the OD Matrix screen.
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	Run duration (s)	Modelling start time (HH:mm)	Network Cycle Time (s)	Performance Index (£ per hr)	Total network delay (PCU-hr/hr)	Highest DOS (%)	Item with highest DOS	Number of oversaturated items	Percentage of oversaturated items (%)	Item with worst signalised PRC	Item with worst unsignalised PRC	Item with worst overall PRC	Network within capacity
16	24/01/2021 11:20:46	24/01/2021 11:21:02	16.48	16:30	60	19042.12	1250.00	159.14	51/1	34	23	TC5/4	51/1	TC5/4	

Analysis Set Details

Name	Use Simulation	Description	Use specific Demand Set(s)	Specific Demand Set(s)	Optimise specific Demand Set(s)	Include in report	Locked
PM Base 2032 + Com Dev + CP + Dev			✓	D16		✓	

Demand Set Details

Scenario name	Time Period name	Description	Composite	Demand sets	Start time (HH:mm)	Locked	Run automatically
PM 2032 + Com Dev + CP + Dev		PM 2032 + Com Dev + CP + Dev			16:30		✓

Network Options

Network timings

Network cycle time (s)	Minimum possible cycle time (s)	Absolute minimum possible cycle time (s)	Restrict to SCOOT cycle times	Time segment length (min)	Number of time segments	Modelled time period (min)
60	37	37		60	1	60

Signals options

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

Advanced

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

Traffic options

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

Advanced

Resolution	DOS Threshold (%)	Cruise scaling factor (%)	Use link stop weightings	Use link delay weightings	Exclude pedestrians from traffic model	Exclude pedestrians from results calculation	Random delay mode	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
Standard accuracy Hill Climb	15, 40, -1, 15, 40, 1, -1, 1	50, 50, 5, 5, 0.5, 0.5, 0.05, 0.05		✓	TC777-1, TC777-2			Do nothing

Economics

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

Traffic Nodes

Traffic Nodes

Traffic node	Name	Description

(ALL)	(untitled)	

Arms and Traffic Streams

Arms

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

49	(untitled)		TC771-6
50	(untitled)		1
51	(untitled)		4-2

Traffic Streams

Arm	Traffic Stream	Name	Description	Auto length	Length (m)	Has Saturation Flow	Saturation flow source	Saturation flow (PCU/hr)	Auto-calculate cell saturation flow	Cell saturation flow (PCU/hr)	Is signal controlled	Is give way	Traffic type	Allow Nearside Turn On Red
A	1	(untitled)	M62E	✓	74.52	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.88	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.61	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.35	✓	Directly entered	2050		2050	✓		Normal	
Ac	1	(untitled)	M62E	✓	95.80	✓	Directly entered	2263		2263	✓		Normal	
	2	(untitled)	Wake	✓	92.34	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Dews/Brad	✓	87.95	✓	Directly entered	2263		2263	✓		Normal	
Acf	1	(untitled)		✓	69.59	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	70.42	✓	Directly entered	2263		2263			Normal	
Af	1	(untitled)	M62E/Wake	✓	53.54	✓	Directly entered	2050		2050			Normal	
	2	(untitled)	Dews	✓	53.19	✓	Directly entered	2050		2050			Normal	
	3	(untitled)	Brad/M62W	✓	53.01	✓	Directly entered	2050		2050			Normal	
B	1	(untitled)	Wake/Dews	✓	94.67	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Brad	✓	97.18	✓	Directly entered	2150		2150	✓		Normal	
	3	(untitled)	Leeds	✓	99.69	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)		✓	102.42	✓	Directly entered	2050		2050	✓		Normal	
Bc	1	(untitled)	Wake	✓	132.85	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Dews	✓	131.47	✓	Directly entered	2050		2263	✓		Normal	
	3	(untitled)	Brad/M62W	✓	130.10	✓	Directly entered	2050		2050	✓		Normal	
Bcf	1	(untitled)		✓	62.67	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	63.14	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.35	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.25	✓	Directly entered	2263		2050			Normal	
Bf	1	(untitled)		✓	227.81	✓	Sum of lanes	1800		1600			Normal	
	2	(untitled)		✓	228.44	✓	Sum of lanes	1800		1700			Normal	
C	1	(untitled)	Dews/Brad	✓	121.13	✓	Directly entered	2100		2050	✓		Normal	
	2	(untitled)	M62W/Brad/Leeds	✓	122.36	✓	Directly entered	2200		2100	✓		Normal	

	3	(untitled)	Leeds/M62E	✓	124.35	✓	Directly entered	2050		1900	✓		Normal	
Cf	**1**	(untitled)		✓	144.60	✓	Sum of lanes	1965		1965			Normal	
	2	(untitled)		✓	145.86	✓	Sum of lanes	1965		1965			Normal	
D	**1**	(untitled)	Brad/M62		55.00	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Leeds		55.00	✓	Directly entered	1850		2075	✓		Normal	
	3	(untitled)	Leeds/M62/Wake	✓	52.87	✓	Directly entered	2250		2250	✓		Normal	
Dc	**1**	(untitled)	Brad	✓	50.67	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Brad/M62W	✓	48.72	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Leeds	✓	46.78	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)	Leeds/M62E	✓	44.83	✓	Directly entered	2100		2100	✓		Normal	
Dcf	**1**	(untitled)		✓	65.95	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	65.92	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	68.61	✓	Directly entered	2100		2100			Normal	
	4	(untitled)		✓	66.73	✓	Directly entered	2100		2100			Normal	
	5	(untitled)		✓	66.90	✓	Directly entered	2100		2100			Normal	
Df	**1**	(untitled)			200.00	✓	Sum of lanes	1900					Normal	
	2	(untitled)			200.00	✓	Directly entered	2250					Normal	
Dxp	**1**	(untitled)		✓	46.62	✓	Directly entered	2050			✓		Normal	
	2	(untitled)		✓	48.64	✓	Directly entered	2050			✓		Normal	
Ec	**1**	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal	
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal	
	4	(untitled)	M62E	✓	45.93	✓	Directly entered	2250		2250	✓		Normal	
Ecf	**1**	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal	
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	46.93	✓	Directly entered	2263		2263			Normal	
	4	(untitled)		✓	50.37	✓	Directly entered	2300		2300			Normal	
Ef	**1**	(untitled)		✓	127.54	✓	Directly entered	1900					Normal	
	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal	
Exp	**1**	(untitled)		✓	51.83	✓	Directly entered	2050		2100	✓		Normal	
	2	(untitled)		✓	53.71	✓	Directly entered	2050		2100	✓		Normal	
F	**1**	(untitled)	Leeds	✓	85.13	✓	Directly entered	2100		2100	✓		Normal	

	2	(untitled)	Wake	✓	85.72	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Dews/Brad	✓	87.25	✓	Directly entered	2100		2100	✓		Normal	
Fc	**1**	(untitled)	Leeds	✓	183.21	✓	Directly entered	2263		2263	✓		Normal	
	2	(untitled)	Leeds	✓	181.45	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	M62E/Dews	✓	180.28	✓	Directly entered	2263		2263	✓		Normal	
Ff	**1**	(untitled)		✓	275.73	✓	Sum of lanes	1900		1900			Normal	
	2	(untitled)		✓	275.39	✓	Sum of lanes	1900		1900			Normal	
G	**1**	(untitled)		✓	155.36	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)		✓	151.80	✓	Directly entered	2050		2050	✓		Normal	
Gf	**1**	(untitled)		✓	40.48	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	40.06	✓	Directly entered	2050		2050			Normal	
xA	**1**	(untitled)		✓	229.66	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	229.97	✓	Directly entered	2263		2263			Normal	
xB	**1**	(untitled)		✓	77.15								Normal	
xC	**1**	(untitled)		✓	115.60	✓	Sum of lanes	1900		1900			Normal	
	2	(untitled)		✓	115.98	✓	Sum of lanes	1900		1900			Normal	
xD	**1**	(untitled)		✓	121.71								Normal	
	2	(untitled)		✓	122.74								Normal	
xE	**1**	(untitled)		✓	173.89								Normal	
	2	(untitled)		✓	173.83								Normal	
xF	**1**	(untitled)		✓	162.53								Normal	
Cc1	**1**	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal	
E1	**1**	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal	
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal	
Gf1	**1**	(untitled)		✓	49.26							✓	Normal	
Cc2	**2**	(untitled)	Dews	✓	91.58	✓	Directly entered	2150		2100	✓		Normal	
	3	(untitled)	Brad/M62W	✓	89.25	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Dews/Brad	✓	88.96	✓	Directly entered	2150		2100	✓		Normal	
	5	(untitled)	Leeds	✓	88.65	✓	Directly entered	2050		2050	✓		Normal	
E2	**3**	(untitled)	Wake	✓	53.28	✓	Directly entered	2150		2050	✓		Normal	
	4	(untitled)	Wake	✓	54.33	✓	Directly entered	2050		2050	✓		Normal	
TC5	**2**	(untitled)		✓	23.03	✓	Sum of lanes	2263		2263	✓		Normal	

	3	(untitled)		✓	23.02	✓	Directly entered	2263		2263	✓		Normal	
	4	(untitled)		✓	24.43	✓	Sum of lanes	1800		2263	✓		Normal	
TC9	1	(untitled)		✓	91.71	✓	Directly entered	1925		1925	✓		Normal	
	2	(untitled)		✓	92.11	✓	Sum of lanes	1966		1966	✓		Normal	
	3	(untitled)		✓	92.69	✓	Sum of lanes	1947		1947	✓		Normal	
TC35	1	(untitled)		✓	24.16	✓	Directly entered	1900		2263	✓		Normal	
TC36	1	(untitled)		✓	25.22	✓	Sum of lanes	1800					Normal	
TC37	1	(untitled)		✓	44.32	✓	Directly entered	1850		1850	✓		Normal	
TC38	1	(untitled)		✓	21.32	✓	Directly entered	1850		1850		✓	Normal	
TC39	2	(untitled)		✓	35.24	✓	Directly entered	2263		2263			Normal	
	3	(untitled)		✓	33.28	✓	Directly entered	2263		2263			Normal	
TC40	2	(untitled)		✓	58.74								Normal	
	3	(untitled)		✓	55.82								Normal	
TC41	1	(untitled)		✓	54.63	✓	Directly entered	1850		1850	✓		Normal	
TC42	1	(untitled)		✓	23.35	✓	Sum of lanes	1771			✓		Normal	
TC43	1	(untitled)		✓	51.77	✓	Sum of lanes	1800					Normal	
47	1	(untitled)		✓	133.63	✓	Directly entered	1300		1300			Normal	
48	1	(untitled)		✓	55.12	✓	Sum of lanes	1965					Normal	
49	1	(untitled)		✓	26.24	✓	Directly entered	1900					Normal	
	2	(untitled)		✓	26.24	✓	Directly entered	1900					Normal	
50	1	(untitled)		✓	48.15	✓	Sum of lanes	1900					Normal	
51	1	(untitled)		✓	37.47	✓	Sum of lanes	1900					Normal	

Lanes

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

Acf	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
Af	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
B	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
	4	**4**	(untitled)											
Bc	**1**	**1**	(untitled)											
	2	**1**	(untitled)											
	3	**1**	(untitled)											
Bcf	**1**	**1**	(untitled)											
	2	**1**	(untitled)											
	3	**1**	(untitled)											
	4	**1**	(untitled)											
Bf	**1**	**1**	(untitled)											1800
	2	**1**	(untitled)											1800
C	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
Cf	**1**	**2**	(untitled)											1965
	2	**1**	(untitled)											1965
D	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
Dc	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
	3	**3**	(untitled)											
	4	**4**	(untitled)											
Dcf	**1**	**1**	(untitled)											
	2	**2**	(untitled)											

	3	3	(untitled)											
	4	4	(untitled)											
	5	5	(untitled)											
Df	1	1	(untitled)											1900
	2	2	(untitled)											
Dxp	1	1	(untitled)											
	2	1	(untitled)											
Ec	1	1	(untitled)											
	2	1	(untitled)											
	3	1	(untitled)											
	4	1	(untitled)											
Ecf	1	1	(untitled)											
	2	2	(untitled)											
	3	3	(untitled)											
	4	4	(untitled)											
Ef	1	1	(untitled)											
	2	2	(untitled)											1900
Exp	1	1	(untitled)											
	2	2	(untitled)											
F	1	1	(untitled)											
	2	2	(untitled)											
	3	3	(untitled)											
Fc	1	1	(untitled)											
	2	2	(untitled)											
	3	3	(untitled)											
Ff	1	1	(untitled)											1900
	2	2	(untitled)											1900
G	1	1	(untitled)											
	2	2	(untitled)											
Gf	1	1	(untitled)											
	2	2	(untitled)											
xA	1	1	(untitled)											

	2	**2**	(untitled)											
xB	**1**	**1**	(untitled)											
xC	**1**	**1**	(untitled)											1900
	2	**2**	(untitled)											1900
xD	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
xE	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
xF	**1**	**1**	(untitled)											
Cc1	**1**	**1**	(untitled)											
E1	**1**	**1**	(untitled)											
	2	**2**	(untitled)											
Gf1	**1**	**1**	(untitled)											
Cc2	**2**	**2**	(untitled)											
	3	**3**	(untitled)											
	4	**4**	(untitled)											
	5	**5**	(untitled)											
E2	**3**	**3**	(untitled)											
	4	**4**	(untitled)											
TC5	**2**	**1**	(untitled)		✓	N/A	Clearly Good	0	3.50	✓	0	99999.00		2263
	3	**1**	(untitled)											
	4	**1**	(untitled)											1800
TC9	**1**	**1**	(untitled)											
	2	**1**	(untitled)		✓	N/A	Average	0	3.70	✓	0	99999.00		1966
	3	**1**	(untitled)		✓	N/A	Average	0	3.50	✓	0	99999.00		1947
TC35	**1**	**1**	(untitled)											
TC36	**1**	**1**	(untitled)											1800
TC37	**1**	**1**	(untitled)											
TC38	**1**	**1**	(untitled)											
TC39	**2**	**1**	(untitled)											
	3	**1**	(untitled)											
TC40	**2**	**1**	(untitled)											

	3	1	(untitled)											
TC41	1	1	(untitled)											
TC42	1	1	(untitled)		✓	N/A	Average	0	3.00	✓	0	9.44	✓	1771
TC43	1	1	(untitled)											1800
47	1	1	(untitled)											
48	1	1	(untitled)											1965
49	1	2	(untitled)											
	2	1	(untitled)											
50	1	1	(untitled)											1900
51	1	1	(untitled)											1900

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 of saturation penalty (£)
A	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ac	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Acf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Af	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
B	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Bc	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Bcf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Bf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
C	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Cf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
D	1	CTM	100	100	100		0.00							

	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Dc	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Dcf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
Df	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Dxp	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Ec	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ecf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
Ef	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
Exp	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
F	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Fc	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
Ff	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00	✓	0.00	0.00	✓	2	0.00	0.00
G	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Gf	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xA	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xB	**1**	NetworkDefault	100	100	100		0.00							
xC	**1**	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xD	**1**	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
xE	**1**	NetworkDefault	100	100	100		0.00							

	2	NetworkDefault	100	100	100		0.00							
xF	1	NetworkDefault	100	100	100		0.00							
Cc1	1	CTM	100	100	100		0.00							
E1	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
Gf1	1	NetworkDefault	100	100	100		0.00							
Cc2	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
E2	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
TC 5	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
TC 9	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
TC 35	1	CTM	100	100	100		0.00							
TC 36	1	NetworkDefault	100	100	100		0.00							
TC 37	1	CTM	100	100	100		0.00							
TC 38	1	CTM	100	100	100		0.00							
TC 39	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
TC 40	2	PDM	100	100	100		0.00							
	3	PDM	100	100	100		0.00							
TC 41	1	CTM	100	100	100		0.00							
TC 42	1	NetworkDefault	100	100	100		0.00							
TC 43	1	NetworkDefault	100	100	100		0.00							
47	1	CTM	100	100	100		0.00							
48	1	NetworkDefault	100	100	100		0.00							
49	1	NetworkDefault	100	100	100		0.00							
	2	NetworkDefault	100	100	100		0.00							
50	1	NetworkDefault	100	100	100		0.00							
51	1	NetworkDefault	100	100	100		0.00							

Modelling - Advanced

Arm	Traffic Stream	Initial queue (PCU)	Type of Vehicle-in-Service	Vehicle-in-Service	Type of random parameter	Random parameter	Auto cycle time	Cycle time
(ALL)	(ALL)	0.00	NetworkDefault	Not-Included	NetworkDefault	0.50	✓	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	962	962
	2	435	435
	3	1012	1012
	4	629	629
Ac	1	925	925
	2	306	306
	3	562	562
Acf	1	1231	1231
	2	562	562
Af	1	1397	1397
	2	1012	1012
	3	629	629
B	1	364	364
	2	425	425
	3	388	388
	4	260	260
Bc	1	828	828
	2	1428	1428
	3	688	688
Bcf	1	1887	1887
	2	828	828
	3	1428	1428
	4	688	688
Bf	1	789	789
	2	648	648
C	1	513	513
	2	445	445
	3	144	144
Cf	1	513	513
	2	589	589
D	1	423	423
	2	511	511
	3	500	500
Dc	1	886	886
	2	858	858
	3	381	381
	4	404	404
Dcf	1	1339	1339
	2	1675	1675
	3	858	858
	4	381	381
	5	404	404
Df	1	934	934
	2	500	500
Dxp	1	1339	1339
	2	790	790
Ec	1	767	767
	2	822	822
	3	518	518

	4	411	411
Ecf	**1**	991	991
	2	1176	1176
	3	822	822
	4	974	974
Ef	**1**	882	882
	2	630	630
Exp	**1**	991	991
	2	409	409
F	**1**	235	235
	2	312	312
	3	467	467
Fc	**1**	931	931
	2	609	609
	3	979	979
Ff	**1**	547	547
	2	467	467
G	**1**	389	389
	2	287	287
Gf	**1**	385	385
	2	245	245
xA	**1**	1076	1076
	2	663	663
xB	**1**	1887	1887
xC	**1**	817	817
	2	685	685
xD	**1**	1339	1339
	2	790	790
xE	**1**	991	991
	2	409	409
xF	**1**	881	881
Cc1	**1**	825	825
E1	**1**	314	314
	2	568	568
Gf1	**1**	46	46
Cc2	**2**	1242	1242
	3	728	728
	4	1325	1325
	5	260	260
E2	**3**	385	385
	4	245	245
TC5	**2**	898	898
	3	663	663
	4	0	0
TC9	**1**	1231	1231
	2	991	991
	3	463	463
TC35	**1**	178	178
TC36	**1**	431	431
TC37	**1**	78	78
TC38	**1**	78	78
TC39	**2**	898	898
	3	663	663
TC40	**2**	976	976
	3	663	663

TC41	**1**	353	353
TC42	**1**	0	0
TC43	**1**	0	0
47	**1**	1501	1501
48	**1**	1102	1102
49	**1**	1231	1231
	2	1454	1454
50	**1**	1437	1437
51	**1**	1014	1014

Signals

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

Cc2	**2**	769-2	D	
	3	769-2	D	
	4	769-2	D	
	5	769-2	D	
E2	**3**	770-3	H	
	4	770-3	H	
TC5	**2**	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
TC9	**1**	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
TC35	**1**	TC777-1	A	
TC37	**1**	TC777-2	J	
TC41	**1**	TC777-1	D	
TC42	**1**	TC777-1	E	

Entry Sources

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

Sources

Arm	Traffic Stream	Source	Source traffic stream	Destination traffic stream	Cruise time for Normal Traffic (s)	Cruise speed for Normal Traffic (kph)	Auto turning radius	Traffic turn style	Turning radius (m)
A	**1**	**1**	Af/1	A/1	5.59	48.00	✓	Straight	Straight Movement
	2	**1**	Af/1	A/2	5.77	48.00	✓	Straight	Straight Movement
	3	**1**	Af/2	A/3	5.90	48.00	✓	Straight	Straight Movement
	4	**1**	Af/3	A/4	6.03	48.00	✓	Straight	Straight Movement
Ac	**1**	**1**	Acf/1	Ac/1	7.19	48.00	✓	Offside	48.59
	2	**1**	Acf/1	Ac/2	9.50	35.00	✓	Offside	46.08
	3	**1**	Acf/2	Ac/3	6.60	48.00	✓	Offside	42.76
Acf	**1**	**1**	F/2	Acf/1	5.22	48.00	✓	Straight	Straight Movement
	2	**1**	F/3	Acf/2	7.24	35.00	✓	Straight	Straight Movement
Af	**1**	**1**	TC42/1	Af/1	6.42	30.00	✓	Nearside	10.60
	2	**1**	TC42/1	Af/2	6.38	30.00	✓	Nearside	10.60
	3	**1**	TC42/1	Af/3	6.36	30.00	✓	Nearside	10.60
B	**1**	**1**	Bf/1	B/1	7.10	48.00	✓	Straight	Straight Movement
	2	**1**	Bf/1	B/2	7.29	48.00	✓	Straight	Straight Movement

	3	**1**	Bf/2	B/3	7.48	48.00	✓	Straight	Straight Movement
	4	**1**	Bf/2	B/4	12.29	30.00	✓	Straight	Straight Movement
Bc	**1**	**1**	Bcf/2	Bc/1	11.96	40.00	✓	Offside	51.76
	2	**1**	Bcf/3	Bc/2	11.83	40.00	✓	Offside	48.45
	3	**1**	Bcf/4	Bc/3	11.71	40.00	✓	Offside	45.13
Bcf	**1**	**1**	A/1	Bcf/1	4.70	48.00	✓	Nearside	68.65
	2	**1**	A/2	Bcf/2	6.69	34.00	✓	Nearside	71.96
	3	**1**	A/3	Bcf/3	6.60	34.00	✓	Nearside	75.27
	4	**1**	A/4	Bcf/4	6.59	34.00	✓	Nearside	78.59
Bf	**1**	**1**	50/1	Bf/1	27.34	30.00	✓	Straight	Straight Movement
	2	**1**	50/1	Bf/2	27.41	30.00	✓	Straight	Straight Movement
C	**1**	**1**	Cf/1	C/1	14.54	30.00	✓	Offside	59.30
	2	**1**	Cf/2	C/2	14.68	30.00	✓	Offside	55.98
	3	**1**	Cf/2	C/3	14.92	30.00	✓	Offside	53.27
Cf	**1**	**1**	48/1	Cf/1	17.35	30.00	✓	Straight	Straight Movement
	2	**1**	48/1	Cf/2	17.50	30.00	✓	Straight	Straight Movement
D	**1**	**1**	Df/1	D/1	4.13	48.00	✓	Straight	Straight Movement
	2	**1**	Df/1	D/2	4.13	48.00	✓	Straight	Straight Movement
	3	**1**	Df/2	D/3	3.97	48.00	✓	Straight	Straight Movement
Dc	**1**	**1**	Dcf/2	Dc/1	3.80	48.00	✓	Offside	56.07
	2	**1**	Dcf/3	Dc/2	3.65	48.00	✓	Offside	52.76
	3	**1**	Dcf/4	Dc/3	3.51	48.00	✓	Offside	49.44
	4	**1**	Dcf/5	Dc/4	3.36	48.00	✓	Offside	46.13
Dcf	**1**	**1**	Cc2/2	Dcf/1	4.95	48.00	✓	Straight	Straight Movement
	2	**1**	Cc2/4	Dcf/2	4.94	48.00	✓	Straight	Straight Movement
	3	**1**	Cc2/3	Dcf/3	5.15	48.00	✓	Straight	Straight Movement
	4	**1**	C/2	Dcf/4	5.00	48.00	✓	Nearside	58.86
	5	**1**	Cc2/5	Dcf/5	5.02	48.00	✓	Straight	Straight Movement
Dxp	**1**	**1**	Dcf/1	Dxp/1	3.50	48.00	✓	Nearside	80.62
	2	**1**	Dcf/2	Dxp/2	3.65	48.00	✓	Nearside	83.93
Ec	**1**	**1**	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	**1**	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	**1**	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	**1**	Ecf/4	Ec/4	3.44	48.00	✓	Offside	67.06
Ecf	**1**	**1**	Dc/1	Ecf/1	3.45	48.00	✓	Offside	76.11
	2	**1**	Dc/2	Ecf/2	3.48	48.00	✓	Offside	72.80
	3	**1**	Dc/3	Ecf/3	3.52	48.00	✓	Offside	69.49
	4	**1**	Dc/4	Ecf/4	3.78	48.00	✓	Offside	66.17
Exp	**1**	**1**	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	**1**	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	**1**	**1**	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	**1**	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement

	3	**1**	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	**1**	**1**	Ec/2	Fc/1	18.84	35.00	✓	Straight	Straight Movement
	2	**1**	Ec/3	Fc/2	18.66	35.00	✓	Straight	Straight Movement
	3	**1**	Ec/4	Fc/3	18.54	35.00	✓	Straight	Straight Movement
Ff	**1**	**1**	51/1	Ff/1	33.09	30.00	✓	Straight	Straight Movement
	2	**1**	51/1	Ff/2	33.05	30.00	✓	Straight	Straight Movement
G	**1**	**1**	Gf/1	G/1	15.98	35.00	✓	Offside	88.54
	2	**1**	Gf/2	G/2	11.38	48.00	✓	Offside	85.22
Gf	**1**	**1**	E2/3	Gf/1	3.04	48.00	✓	Straight	Straight Movement
	2	**1**	E2/4	Gf/2	3.00	48.00	✓	Straight	Straight Movement
xA	**1**	**1**	F/1	xA/1	17.22	48.00	✓	Straight	Straight Movement
	2	**1**	F/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
xB	**1**	**1**	Bcf/1	xB/1	5.79	48.00	✓	Nearside	59.55
xC	**1**	**1**	G/1	xC/1	8.67	48.00	✓	Straight	Straight Movement
	2	**1**	G/2	xC/2	8.70	48.00	✓	Straight	Straight Movement
xD	**1**	**1**	Dxp/1	xD/1	9.13	48.00	✓	Nearside	30.26
	2	**1**	Dxp/2	xD/2	9.21	48.00	✓	Nearside	33.58
xE	**1**	**1**	Exp/1	xE/1	13.04	48.00	✓	Straight	Straight Movement
	2	**1**	Exp/2	xE/2	13.04	48.00	✓	Straight	Straight Movement
xF	**1**	**1**	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
Cc1	**1**	**1**	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
E1	**1**	**1**	Ef/1	E1/1	6.00	48.00	✓	Nearside	26.33
	2	**1**	Ef/1	E1/2	6.00	48.00	✓	Nearside	28.96
Gf1	**1**	**1**	Ecf/4	Gf1/1	3.69	48.00	✓	Offside	25.08
Cc2	**2**	**1**	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	**1**	Bc/3	Cc2/3	5.95	54.00	✓	Straight	Straight Movement
	4	**1**	Bc/3	Cc2/4	5.93	54.00	✓	Straight	Straight Movement
	5	**1**	Bc/3	Cc2/5	5.91	54.00	✓	Offside	97.08
E2	**3**	**1**	Ef/2	E2/3	4.00	48.00	✓	Nearside	43.25
	4	**1**	Ef/2	E2/4	4.07	48.00	✓	Nearside	43.25
TC5	**2**	**1**	xA/1	TC5/2	2.76	30.00	✓	Straight	Straight Movement
	3	**1**	xA/2	TC5/3	2.76	30.00	✓	Straight	Straight Movement
	4	**1**	xA/2	TC5/4	2.93	30.00	✓	Straight	Straight Movement
TC9	**1**	**1**	49/1	TC9/1	11.00	30.00	✓	Straight	Straight Movement
	2	**1**	49/2	TC9/2	11.05	30.00	✓	Straight	Straight Movement
	3	**1**	49/2	TC9/3	11.12	30.00	✓	Straight	Straight Movement

TC35	**1**	**1**	xA/1	TC35/1	2.90	30.00	✓	Straight	Straight Movement
TC37	**1**	**1**	TC36/1	TC37/1	3.19	50.00	✓	Nearside	46.04
TC38	**1**	**1**	TC37/1	TC38/1	1.53	50.00	✓	Straight	Straight Movement
TC39	**2**	**1**	TC5/2	TC39/2	2.54	50.00	✓	Straight	Straight Movement
	3	**1**	TC5/3	TC39/3	2.40	50.00	✓	Straight	Straight Movement
TC40	**2**	**1**	TC38/1	TC40/2	4.23	50.00	✓	Nearside	11.92
	3	**1**	TC39/3	TC40/3	4.02	50.00	✓	Offside	77.43
TC41	**1**	**1**	TC36/1	TC41/1	3.93	50.00	✓	Straight	Straight Movement
TC43	**1**	**1**	TC9/1	TC43/1	3.73	50.00	✓	Nearside	6.11
47	**1**	**1**	xC/1	47/1	16.04	30.00	✓	Straight	Straight Movement
Acf	**1**	**2**	Fc/3	Acf/1	5.22	48.00	✓	Straight	Straight Movement
	2	**2**	Fc/3	Acf/2	7.24	35.00	✓	Straight	Straight Movement
Af	**1**	**2**	TC9/1	Af/1	6.42	30.00	✓	Straight	Straight Movement
	2	**2**	TC9/2	Af/2	6.38	30.00	✓	Straight	Straight Movement
	3	**2**	TC9/3	Af/3	6.36	30.00	✓	Straight	Straight Movement
Bcf	**1**	**2**	Ac/1	Bcf/1	3.96	57.00	✓	Offside	93.05
	2	**2**	Ac/2	Bcf/2	3.99	57.00	✓	Offside	89.74
	3	**2**	Ac/3	Bcf/3	3.94	57.00	✓	Offside	86.42
	4	**2**	Ac/3	Bcf/4	3.93	57.00	✓	Offside	86.42
Dcf	**1**	**2**	C/1	Dcf/1	4.95	48.00	✓	Nearside	55.54
	2	**2**	C/1	Dcf/2	4.94	48.00	✓	Nearside	55.54
	3	**2**	C/2	Dcf/3	5.15	48.00	✓	Nearside	58.86
	4	**2**	Cc2/3	Dcf/4	8.01	30.00	✓	Straight	Straight Movement
	5	**2**	C/3	Dcf/5	5.02	48.00	✓	Nearside	62.17
Ecf	**1**	**2**	D/1	Ecf/1	3.45	48.00	✓	Nearside	43.36
	2	**2**	D/1	Ecf/2	3.48	48.00	✓	Nearside	43.36
	3	**2**	D/2	Ecf/3	3.52	48.00	✓	Nearside	46.68
	4	**2**	D/3	Ecf/4	3.78	48.00	✓	Nearside	49.99
Fc	**1**	**2**	E1/1	Fc/1	20.61	32.00	✓	Nearside	58.94
	2	**2**	E1/1	Fc/2	20.41	32.00	✓	Nearside	60.85
	3	**2**	E1/2	Fc/3	20.28	32.00	✓	Nearside	64.16
G	**1**	**2**	Gf1/1	G/1	15.98	35.00	✓	Offside	17.91
	2	**2**	Gf1/1	G/2	11.38	48.00	✓	Offside	15.13
xA	**1**	**2**	Fc/1	xA/1	17.22	48.00	✓	Straight	Straight Movement
	2	**2**	Fc/2	xA/2	17.25	48.00	✓	Straight	Straight Movement
xC	**1**	**2**	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	**2**	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
xF	**1**	**2**	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
Cc1	**1**	**2**	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	**2**	**2**	Bc/2	Cc2/2	6.11	54.00	✓	Straight	Straight Movement

	3	2	B/3	Cc2/3	8.03	40.00	✓	Straight	Straight Movement
	4	2	B/2	Cc2/4	8.01	40.00	✓	Straight	Straight Movement
	5	2	B/4	Cc2/5	7.98	40.00	✓	Straight	Straight Movement
TC39	2	2	TC42/1	TC39/2	2.54	50.00	✓	Offside	9.44
	3	2	TC42/1	TC39/3	2.40	50.00	✓	Offside	9.44
TC40	2	2	TC39/2	TC40/2	4.23	50.00	✓	Offside	80.74
TC43	1	2	TC5/4	TC43/1	3.73	50.00	✓	Offside	21.45
47	1	2	xC/2	47/1	16.04	30.00	✓	Straight	Straight Movement
Acf	1	3	Fc/2	Acf/1	5.22	48.00	✓	Straight	Straight Movement
Af	1	3	TC41/1	Af/1	6.42	30.00	✓	Offside	6.19
	2	3	TC41/1	Af/2	6.38	30.00	✓	Offside	6.19
	3	3	TC41/1	Af/3	6.36	30.00	✓	Offside	6.19
Bcf	2	3	Ac/3	Bcf/2	3.99	57.00	✓	Offside	86.42
Dcf	3	3	Cc2/4	Dcf/3	8.23	30.00	✓	Straight	Straight Movement
Ecf	4	3	D/2	Ecf/4	6.04	30.00	✓	Nearside	46.68
xA	2	3	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	2	3	B/2	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	4	3	Bc/2	Cc2/4	5.93	54.00	✓	Straight	Straight Movement
	2	4	Bc/1	Cc2/2	6.11	54.00	✓	Straight	Straight Movement

Give Way Data

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

Give Way Data - All Movements - Conflicts

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

Pedestrian Crossings

Pedestrian Crossings

Crossing	Name	Description	Traffic node	Allow walk on red	Crossing type	Length (m)	Cruise time (seconds)	Cruise speed (kph)
1	(untitled)		3-2		Nearside	3.00	2.00	5.40
2	(untitled)		3		Nearside	3.00	2.00	5.40
3	(untitled)		4-2		Nearside	3.00	2.00	5.40
4	(untitled)		4		Nearside	3.00	2.00	5.40
5	(untitled)		4		Nearside	3.00	2.00	5.40
6	(untitled)		4		Nearside	3.00	2.00	5.40
7	(untitled)		5		Nearside	3.00	2.00	5.40
8	(untitled)		1		Nearside	3.00	2.00	5.40
9	(untitled)		2		Nearside	3.00	2.00	5.40

10	(untitled)		2		Nearside	3.00	2.00	5.40
11	(untitled)				Nearside	3.00	2.00	5.40
12	(untitled)		2		Nearside	3.00	2.00	5.40
13	(untitled)				Farside	3.00	2.00	5.40
14	(untitled)				Farside	3.00	2.00	5.40
15	(untitled)				Nearside	3.00	2.00	5.40
16	(untitled)				Nearside	3.00	2.00	5.40
17	(untitled)				Nearside	3.00	2.00	5.40

Pedestrian Crossings - Signals

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

Pedestrian Crossings - Sides

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

Pedestrian Crossings - Modelling

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

Local OD Matrix - Local Matrix: 1

Local Matrix Options

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

Normal Input Flows (PCU/hr)

	To								
From		**A28**	**B28**	**C28**	**D28**	**E28**	**F28**	**G28**	**H28**

	A28	3	58	436	13	470	55	450	0
	B28	19	0	101	182	520	13	267	0
	C28	400	46	0	318	105	20	545	0
	D28	6	393	363	0	17	55	180	0
	E28	497	630	94	114	1	9	167	0
	F28	126	29	67	106	25	0	78	0
	G28	836	345	1068	148	262	26	0	0
	H28	0	0	0	0	0	0	0	0

Bus Input Flows not shown as they are blank.

Tram Input Flows not shown as they are blank.

Pedestrian Input Flows not shown as they are blank.

Locations

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

Normal Paths and Flows

OD Matrix	Path	Description	From location	To location	Path items	Allocation type	Normal Calculated Flow (PCU/hr)
1	**23**	I3	C28	A28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	390
	24		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	25		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	0
	32	I1	C28	E28	Df/1, D/1, Ecf/1, Exp/1, xE/1	Normal	105
	36		C28	E28	Df/1, D/1, Ecf/2, Exp/2, xE/2	Disabled	0
	41		E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	473
	42		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	47
	43		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Disabled	0
	44		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
	45		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	49	I1	C28	D28	Df/1, D/1, Ecf/2, Ec/1, xF/1	Normal	318
	50		E28	D28	Ef/1, E1/1, xF/1	Normal	114
	68		E28	G28	Ef/1, E1/1, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	100
	86		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	106
	91	I2	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	20
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	9
	96		A28	C28	50/1, Bf/1, B/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	71
	97		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	0
	98		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0
	99	I3	C28	B28	Df/2, D/3, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Normal	42

	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Fixed	245
	101		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	306
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	104	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	380
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	0
	106		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	460
	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	29
	108		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	125
	109	I3	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	64
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	67
	111		B28	G28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	19
	112		F28	G28	TC36/1, TC37/1, TC38/1, TC40/2	Normal	78
	113		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, xB/1	Normal	126
	114		C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	4
	116		F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	11
	117		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	118		F28	C28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	35
	119		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	13
	120		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	13
	121		A28	A28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	2
	122		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	123		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	124		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	126		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	127		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	128		H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	129		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	11
	130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	448
	131		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	72
	132		H28	C28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	133		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
	134		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	135		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	136		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
	137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	0
	138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	0
	139		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	2
	140		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	141		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	2
	142		C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	143		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	144		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	145		H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	146		F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	147		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	0
	148		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	0
	149	I3	C28	B28	Df/2, D/3, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Fixed	4
	150		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	385
	151		B28	A28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	0

	152		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
	153		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	29
	154		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	24
	155		E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	156		C28	G28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	60
	157		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
	158		B28	D28	48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	182
	159		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	108
	160		B28	G28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	123
	161		B28	F28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	13
	162		B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	163		B28	A28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	19
	164		B28	B28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Normal	0
	165		B28	B28	48/1, Cf/2, C/3, Dcf/5, Dc/4, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Normal	0
	166		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	97
	167		B28	E28	48/1, Cf/1, C/1, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	412
	168		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	836
	169		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	173
	170		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	173
	171		G28	H28	49/1, TC9/1, TC43/1	Normal	0
	175		G28	C28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	110
	176		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	133
	177		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	137
	178		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	57
	181		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
	185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	29
	186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	59
	187		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	242
	195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	160
	196		D28	F28	51/1, Ff/1, F/1, xA/1, TC35/1	Normal	55
	197		D28	G28	51/1, Ff/1, F/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	20
	198		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	6
	199		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	153
	200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	153
	201		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	287
	204		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	45
	205		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Fixed	12
	206		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	207		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	2
	210		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Fixed	257
	211		A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	212		A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	13
	213		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	175
	214		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
	215		G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	26
	218		A28	G28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Fixed	135
	219		A28	F28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	55
	220		H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
	221		F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
	222		A28	D28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	0
	223		A28	E28	50/1, Bf/1, B/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	53

	224		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	225		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0
	226		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
	227		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	228		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	0
	229		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0
	230		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
	231		A28	G28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	10
	232		A28	H28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	233		B28	H28	48/1, Cf/2, C/2, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	234	I2	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	41
	235		E28	G28	Ef/1, E1/1, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Fixed	0
	236		E28	H28	Ef/1, E1/1, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	237		F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/3, Dcf/4, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
	238		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Fixed	44
	239		D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	43
	240		G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	50
	241		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Fixed	0
	242		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	243		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Ec/1, xF/1	Fixed	11
	244		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0
	245		C28	C28	Df/2, D/3, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	246		E28	C28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	47
	247		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	248		D28	C28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Fixed	31
	249		H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	250		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
	251		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
	252		F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	11
	253		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/3, Dc/2, Ecf/2, Exp/2, xE/2	Fixed	0
	254		A28	A28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	2
	255	I3	C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	0
	256		C28	C28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	257		C28	H28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
	258		C28	A28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	10
	259		C28	C28	Df/1, D/2, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	260		C28	A28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Fixed	0
	261		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	262		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	263		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
	264		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	265		C28	C28	Df/1, D/2, Ecf/4, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
	266		C28	B28	Df/1, D/2, Ecf/4, Gf1/1, G/1, xC/1, 47/1	Fixed	0
	267		C28	B28	Df/1, D/2, Ecf/4, Gf1/1, G/2, xC/2, 47/1	Fixed	0

Signal Timings

Network Default: 60s cycle time; 60 steps

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)
16:30-17:30	A	1	(untitled)	E	962	2050	28	991	97	-7	46.42	19.73	152.26	52.01
		2	(untitled)	E	436	2050	28	991	44	105	8.84	2.82	21.05	14.61
		3	(untitled)	E	782	2050	28	782	100	-10	94.94	25.07	183.35	100.83
		4	(untitled)	E	522	2050	28	991	53	71	16.58	8.19	58.62	22.61
	Ac	1	(untitled)	D	850	2263	22	867	98	-8	65.52	24.60	147.65	72.71
		2	(untitled)	D	192	2263	22	835	23	291	1.69	2.08	12.98	11.18
		3	(untitled)	D	383	2263	22	383	100	-10	196.06	23.22	151.83	202.66
	Acf	1	(untitled)		1042	2263	60	2263	46	95	0.68	2.52	20.78	5.90
		2	(untitled)		383	2263	60	383	100	-10	174.90	21.15	172.65	182.14
	Af	1	(untitled)		1398	2050	60	2022	69	30	2.07	3.74	40.15	8.49
		2	(untitled)		782	2050	60	1106	71	27	18.81	9.50	102.71	25.19
		3	(untitled)		522	2050	60	2050	25	254	0.30	0.04	0.47	6.66
	B	1	(untitled)	B	338	2050	10	376	90	0	64.54	8.88	53.96	71.64
		2	(untitled)	B	394	2150	10	394	100	-10	204.91	25.68	151.95	212.20
		3	(untitled)	B	360	2100	10	376	96	-6	120.94	15.99	92.21	128.42
		4	(untitled)	B	242	2050	10	376	64	40	31.05	3.94	22.10	43.34
	Bc	1	(untitled)	A	683	2050	38	1333	51	76	3.25	6.11	26.43	15.21
		2	(untitled)	A	1073	2050	38	1073	100	-10	90.82	37.10	162.26	102.65
		3	(untitled)	A	559	2050	38	1073	52	73	4.51	13.81	61.04	16.22
	Bcf	1	(untitled)		1812	2263	60	2263	80	12	3.16	1.59	14.61	7.52
		2	(untitled)		683	2263	60	2263	30	198	0.34	0.07	0.59	6.05
		3	(untitled)		1073	2263	60	1073	100	-10	68.29	25.51	235.22	74.16
		4	(untitled)		559	2263	60	2263	25	264	0.26	0.04	0.37	6.68
	Bf	1	(untitled)		732	1800	60	795	92	-2	125.05	43.58	109.99	152.38

	2	(untitled)		602	1800	60	1800	33	169	0.50	0.08	0.21	27.91
C	**1**	(untitled)	G	481	2100	13	490	98	-8	179.87	28.81	136.74	194.40
	2	(untitled)	G	422	2200	13	513	82	9	47.71	8.66	40.69	62.39
	3	(untitled)	G	137	2050	13	478	29	215	30.07	2.28	10.52	44.99
Cf	**1**	(untitled)		481	1965	60	481	100	-10	213.68	35.13	139.68	231.03
	2	(untitled)		553	1965	60	1965	28	220	0.36	0.05	0.22	17.86
D	**1**	(untitled)	B	332	2050	12	444	75	20	49.56	6.31	65.94	53.69
	2	(untitled)	B	401	1850	12	401	100	-10	151.59	18.81	196.65	155.72
	3	(untitled)	B	443	2250	12	443	100	-10	127.26	17.01	184.97	131.22
Dc	**1**	(untitled)	A	790	2100	38	1356	58	55	7.80	6.92	78.50	11.60
	2	(untitled)	A	782	2100	38	1365	57	57	5.27	5.28	62.37	8.92
	3	(untitled)	A	359	2100	38	1365	26	242	3.42	2.59	31.79	6.93
	4	(untitled)	A	377	2100	38	1365	28	226	4.74	2.79	35.81	8.11
Dcf	**1**	(untitled)		1090	2050	60	2050	53	69	1.00	0.30	2.63	5.94
	2	(untitled)		1414	2100	60	2015	70	28	2.13	3.14	27.40	7.07
	3	(untitled)		782	2100	60	2100	37	142	0.51	0.11	0.93	5.89
	4	(untitled)		359	2100	60	2100	17	426	0.18	0.02	0.15	6.97
	5	(untitled)		377	2100	60	2100	18	401	0.19	0.02	0.17	5.21
Df	**1**	(untitled)		934	1900	60	733	127	-29	407.60	114.46	329.07	431.60
	2	(untitled)		500	2250	60	443	113	-20	244.24	38.95	111.97	268.24
Dxp	**1**	(untitled)	D	1090	2050	41	1435	76	18	4.74	2.73	33.61	8.23
	2	(untitled)	D	625	2050	41	1435	44	107	1.03	0.24	2.79	4.68
Ec	**1**	(untitled)	F	652	2150	35	1290	51	78	8.38	6.17	70.84	12.13
	2	(untitled)	F	705	2263	35	1358	52	73	9.36	6.95	82.55	12.99
	3	(untitled)	F	469	2263	35	1358	35	160	3.71	2.97	36.51	7.22
	4	(untitled)	F	366	2250	35	1350	27	232	14.18	6.05	75.80	17.62
Ecf	**1**	(untitled)		872	2100	60	2048	43	111	1.10	5.02	62.89	4.55
	2	(untitled)		1031	2100	60	2076	50	81	0.89	2.56	31.79	4.37
	3	(untitled)		705	2263	60	1976	36	152	1.38	2.53	31.01	4.90
	4	(untitled)		875	2300	60	2300	38	136	0.48	0.12	1.33	4.40
Ef	**1**	(untitled)		881	1900	60	835	105	-15	134.94	43.41	195.70	150.24
	2	(untitled)		630	1900	60	584	108	-17	175.10	37.45	168.82	190.40

Exp	**1**	(untitled)	L	872	2050	40	1401	62	45	3.94	5.51	61.16	7.83
	2	(untitled)	L	379	2050	40	1401	27	232	0.48	0.05	0.54	4.50
F	**1**	(untitled)	B	148	2100	10	385	38	135	12.64	2.44	16.47	19.03
	2	(untitled)	B	196	2100	10	385	51	77	15.03	2.84	19.03	21.46
	3	(untitled)	B	294	2100	10	294	100	-10	245.65	22.01	145.08	252.19
Fc	**1**	(untitled)	A	808	2263	40	1546	52	72	1.77	2.03	6.36	20.84
	2	(untitled)	A	555	2263	40	1517	37	146	1.34	3.45	10.93	20.27
	3	(untitled)	A	903	2263	40	903	100	-10	78.66	30.74	98.06	98.24
Ff	**1**	(untitled)		344	1900	60	1900	18	398	0.21	0.02	0.04	33.30
	2	(untitled)		294	1900	60	294	100	-10	594.69	55.92	116.77	627.74
G	**1**	(untitled)	F	359	2050	13	359	100	-10	301.29	34.52	127.76	317.27
	2	(untitled)	F	266	2050	13	458	58	55	43.44	5.22	19.77	54.83
Gf	**1**	(untitled)		357	2050	60	356	100	-10	121.46	15.96	226.71	124.49
	2	(untitled)		228	2050	60	2050	11	708	0.11	2.33	33.39	3.11
xA	**1**	(untitled)		884	2263	60	2256	39	130	0.52	2.44	6.12	17.74
	2	(untitled)		595	2263	60	2263	26	242	0.28	0.05	0.12	17.53
xB	**1**	(untitled)		1812	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	5.79
xC	**1**	(untitled)		711	1900	60	710	100	-10	116.37	30.65	152.44	125.04
	2	(untitled)		590	1900	60	796	74	21	12.87	8.03	39.83	21.57
xD	**1**	(untitled)		1090	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.13
	2	(untitled)		625	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.21
xE	**1**	(untitled)		872	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		379	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
xF	**1**	(untitled)		760	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
Cc1	**1**	(untitled)	E	676	2050	32	1128	60	50	12.31	8.73	52.37	18.87
E1	**1**	(untitled)	G	298	2050	14	513	58	55	36.27	5.35	38.44	42.27
	2	(untitled)	G	537	2200	14	550	98	-8	124.09	22.32	160.41	130.09
Gf1	**1**	(untitled)		41	671	60	565	7	1146	5.02	0.66	7.65	8.71
Cc2	**2**	(untitled)	D	999	2150	33	1182	85	6	20.46	14.32	89.88	27.31
	3	(untitled)	D	665	2050	33	1162	57	57	11.82	11.63	74.90	18.95
	4	(untitled)	D	1083	2150	33	1218	89	1	21.63	17.07	110.31	28.19
	5	(untitled)	D	242	2050	33	1162	21	332	13.18	4.21	27.29	21.16

E2	3	(untitled)	H	357	2150	14	357	100	-10	147.81	15.94	172.01	151.81
	4	(untitled)	H	227	2050	14	513	44	103	32.54	2.98	31.54	36.62
TC5	2	(untitled)	A	740	2263	38	1509	49	84	2.79	1.93	48.16	5.55
	3	(untitled)	A	595	2263	38	1509	39	128	1.01	0.34	8.44	3.77
	4	(untitled)	C	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
TC9	1	(untitled)	B	1232	1925	39	1348	91	-2	20.54	19.20	120.36	31.54
	2	(untitled)	B	760	1966	39	760	100	-10	108.15	29.23	182.50	119.21
	3	(untitled)	B	355	1947	39	1363	26	246	5.07	2.20	13.62	16.19
TC35	1	(untitled)	A	144	1900	38	1267	11	691	3.62	1.46	34.67	6.52
TC36	1	(untitled)		433	1800	60	1800	24	274	0.32	0.04	0.87	3.34
TC37	1	(untitled)	J	78	1850	45	1418	5	1537	1.82	0.30	3.96	5.01
TC38	1	(untitled)		78	463	60	463	17	434	2.47	2.43	65.61	4.01
TC39	2	(untitled)		740	2263	60	2263	33	175	0.39	0.08	1.29	2.92
	3	(untitled)		595	2263	60	2263	26	242	0.28	0.05	0.81	2.68
TC40	2	(untitled)		818	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
	3	(untitled)		595	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
TC41	1	(untitled)	D	355	1850	11	370	96	-6	83.86	11.15	117.34	87.79
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)		1102	1965	60	1101	100	-10	67.28	41.05	428.21	73.90
49	1	(untitled)		1232	1900	60	1900	65	39	1.74	0.60	13.05	4.89
	2	(untitled)		1454	1900	60	1115	130	-31	429.81	189.60	4154.26	432.96
50	1	(untitled)		1438	1900	60	1334	108	-17	151.76	79.69	951.70	157.54
51	1	(untitled)		1015	1900	60	638	159	-43	679.42	199.89	3067.66	683.92

Data Entry - Stage Start and End

Resultant Stage

Controller Stream	Resultant Stage	Is base stage	Library Stage ID	Phases in this stage	Stage start (s)	Stage end (s)	Stage duration (s)	User stage minimum (s)	Stage minimum (s)
769-1	1	✓	1	A,C	34	8	34	1	7
	2	✓	2	B	19	29	10	1	7
769-2	1	✓	4	D,E,H,I	41	5	24	1	1
	2	✓	5	F,G,J,K	19	26	7	1	7
770-1	1	✓	1	A,C	39	15	36	1	5

	2	✓	2	B	22	34	12	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	45	15	30	1	2
	2	✓	9	G,H	26	33	7	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	51	25	34	1	9
	2	✓	3	B	36	46	10	1	7
771-2	**1**	✓	5	D	51	13	22	1	7
	2	✓	6	E	18	46	28	1	7
TC777-1	**1**	✓	1	A,B,F	8	46	38	1	7
	2	✓	5	D,H,I	53	2	9	1	6
TC777-2	**1**	✓	1	J	8	53	45	1	7
	2	✓	2	K	58	3	5	1	5

Data Entry - Phase

Phase

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

	C	C	7	300	0	0	Traffic
	D	D	7	300	0	0	Traffic
	E	E	7	300	0	0	Traffic
	F	F	5	300	0	0	Pedestrian
	G	G	7	300	0	0	Pedestrian
	H	H	6	300	0	0	Pedestrian
	I	I	5	300	0	0	Pedestrian
TC777-2	**J**	J	7	300	0	0	Traffic
	K	K	5	300	0	0	Pedestrian

Data Entry - Traffic Stream

Traffic Stream

Arm	Traffic Stream	Auto length	Length (m)	Traffic model	Max queue storage (PCU)	Traffic type	Has Saturation Flow	Is signal controlled	Is give way	Saturation flow source	Saturation flow (PCU/hr)	Delay weighting multiplier (%)	Stop weighting multiplier (%)
A	**1**	✓	74.52	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	76.88	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	3	✓	78.61	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	4	✓	80.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ac	**1**	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
Acf	**1**	✓	69.59	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	70.42	CTM	0.00	Normal	✓			Directly entered	2263	100	100
Af	**1**	✓	53.54	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	53.19	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	3	✓	53.01	CTM	0.00	Normal	✓			Directly entered	2050	100	100
B	**1**	✓	94.67	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Bc	**1**	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Bcf	**1**	✓	62.67	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	63.14	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.35	CTM	0.00	Normal	✓			Directly entered	2263	100	100

	4	✓	62.25	CTM	0.00	Normal	✓			Directly entered	2263	100	100
Bf	**1**	✓	227.81	CTM	0.00	Normal	✓			Sum of lanes	1800	100	100
	2	✓	228.44	CTM	0.00	Normal	✓			Sum of lanes	1800	100	100
C	**1**	✓	121.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	122.36	CTM	0.00	Normal	✓	✓		Directly entered	2200	100	100
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Cf	**1**	✓	144.60	CTM	0.00	Normal	✓			Sum of lanes	1965	100	100
	2	✓	145.86	CTM	0.00	Normal	✓			Sum of lanes	1965	100	100
D	**1**		55.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
	3	✓	52.87	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
Dc	**1**	✓	50.67	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	48.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	46.78	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	4	✓	44.83	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
Dcf	**1**	✓	65.95	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.92	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	68.61	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	66.73	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.90	CTM	0.00	Normal	✓			Directly entered	2100	100	100
Df	**1**		200.00	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
	2		200.00	NetworkDefault	0.00	Normal	✓			Directly entered	2250	100	100
Dxp	**1**	✓	46.62	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.64	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	**1**	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	4	✓	45.93	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	100
Ecf	**1**	✓	45.94	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	2	✓	46.37	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	46.93	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	50.37	CTM	0.00	Normal	✓			Directly entered	2300	100	100

Ef	**1**	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	**1**	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	**1**	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	100
Fc	**1**	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
Ff	**1**	✓	275.73	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
	2	✓	275.39	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
G	**1**	✓	155.36	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	151.80	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
Gf	**1**	✓	40.48	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	40.06	CTM	0.00	Normal	✓			Directly entered	2050	100	100
xA	**1**	✓	229.66	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	229.97	CTM	0.00	Normal	✓			Directly entered	2263	100	100
xB	**1**	✓	77.15	NetworkDefault	0.00	Normal						100	100
xC	**1**	✓	115.60	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
	2	✓	115.98	CTM	0.00	Normal	✓			Sum of lanes	1900	100	100
xD	**1**	✓	121.71	NetworkDefault	0.00	Normal						100	100
	2	✓	122.74	NetworkDefault	0.00	Normal						100	100
xE	**1**	✓	173.89	NetworkDefault	0.00	Normal						100	100
	2	✓	173.83	NetworkDefault	0.00	Normal						100	100
xF	**1**	✓	162.53	NetworkDefault	0.00	Normal						100	100
Cc1	**1**	✓	95.84	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
E1	**1**		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	100	100
Gf1	**1**	✓	49.26	NetworkDefault	0.00	Normal			✓			100	100
Cc2	**2**	✓	91.58	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	3	✓	89.25	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100

	4	✓	88.96	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	5	✓	88.65	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
E2	**3**	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	100
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
TC5	**2**	✓	23.03	CTM	0.00	Normal	✓	✓		Sum of lanes	2263	100	100
	3	✓	23.02	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	100
	4	✓	24.43	CTM	0.00	Normal	✓	✓		Sum of lanes	1800	100	100
TC9	**1**	✓	91.71	CTM	0.00	Normal	✓	✓		Directly entered	1925	100	100
	2	✓	92.11	CTM	0.00	Normal	✓	✓		Sum of lanes	1966	100	100
	3	✓	92.69	CTM	0.00	Normal	✓	✓		Sum of lanes	1947	100	100
TC35	**1**	✓	24.16	CTM	0.00	Normal	✓	✓		Directly entered	1900	100	100
TC36	**1**	✓	25.22	NetworkDefault	0.00	Normal	✓			Sum of lanes	1800	100	100
TC37	**1**	✓	44.32	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
TC38	**1**	✓	21.32	CTM	0.00	Normal	✓		✓	Directly entered	1850	100	100
TC39	**2**	✓	35.24	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	33.28	CTM	0.00	Normal	✓			Directly entered	2263	100	100
TC40	**2**	✓	58.74	PDM	0.00	Normal						100	100
	3	✓	55.82	PDM	0.00	Normal						100	100
TC41	**1**	✓	54.63	CTM	0.00	Normal	✓	✓		Directly entered	1850	100	100
TC42	**1**	✓	23.35	NetworkDefault	0.00	Normal	✓	✓		Sum of lanes	1771	100	100
TC43	**1**	✓	51.77	NetworkDefault	0.00	Normal	✓			Sum of lanes	1800	100	100
47	**1**	✓	133.63	CTM	0.00	Normal	✓			Directly entered	1300	100	100
48	**1**	✓	55.12	NetworkDefault	0.00	Normal	✓			Sum of lanes	1965	100	100
49	**1**	✓	26.24	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	26.24	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
50	**1**	✓	48.15	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
51	**1**	✓	37.47	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100

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	36	0.00	0.00
		2	0	0	36	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	34	0.00	0.00
		2	0	0	34	0.00	0.00
	5	1	0	0	34	0.00	0.00
		2	0	0	34	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	34	0.00	0.00
		2	0	0	34	0.00	0.00
	8	1	0	0	34	0.00	0.00
		2	0	0	34	0.00	0.00
	9	1	0	0	10	0.00	0.00
		2	0	0	10	0.00	0.00
	10	1	0	0	15	0.00	0.00
		2	0	0	15	0.00	0.00
	11	1	0	0	30	0.00	0.00
		2	0	0	30	0.00	0.00
	12	1	0	0	30	0.00	0.00
		2	0	0	30	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

Collections

Point to Point Journey Time

Average Journey Time (s) for Local Matrix: 1

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	419.8	545.0	480.1	371.0	511.1	401.0	348.6	0.0
	B28	363.9	0.0	531.2	201.5	475.4	228.6	226.4	0.0
	C28	616.5	587.0	0.0	521.7	520.7	651.5	636.3	0.0
	D28	826.5	1202.5	2145.3	0.0	2066.5	768.2	776.6	0.0
	E28	460.6	739.5	984.1	204.7	0.0	238.4	246.1	0.0
	F28	172.1	350.0	265.7	189.0	197.3	0.0	16.6	0.0
	G28	109.6	232.0	831.2	574.2	656.6	585.4	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)	Normal journey dist (m)	Bus journeydist (m)	Tram journey dist (m)	Pedestrian journey dist (m)	Calculated Total Flow (PCU/hr)	Avg journey time (s)	Avg journey dist (m)
23	C28	A28	390	613.52	834.67	0.00	0.00	0.00	390	613.52	834.67
24	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
25	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
32	C28	E28	105	520.71	526.66	0.00	0.00	0.00	105	520.71	526.66
36	C28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
41	E28	A28	473	469.12	693.05	0.00	0.00	0.00	473	469.12	693.05
42	E28	C28	47	983.57	1065.88	0.00	0.00	0.00	47	983.57	1065.88
43	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
44	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
45	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
49	C28	D28	318	521.66	514.00	0.00	0.00	0.00	318	521.66	514.00
50	E28	D28	114	204.70	370.08	0.00	0.00	0.00	114	204.70	370.08
68	E28	G28	100	246.71	737.43	0.00	0.00	0.00	100	246.71	737.43
86	F28	D28	106	188.97	871.13	0.00	0.00	0.00	106	188.97	871.13
91	C28	F28	20	651.45	787.40	0.00	0.00	0.00	20	651.45	787.40
92	E28	F28	9	238.37	644.57	0.00	0.00	0.00	9	238.37	644.57
96	A28	C28	71	578.97	699.00	0.00	0.00	0.00	71	578.97	699.00
97	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
98	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
99	C28	B28	42	556.22	753.91	0.00	0.00	0.00	42	556.22	753.91
100	E28	B28	245	372.52	623.35	0.00	0.00	0.00	245	372.52	623.35
101	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
102	A28	C28	306	438.47	696.48	0.00	0.00	0.00	306	438.47	696.48
103	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
104	C28	G28	380	659.43	880.25	0.00	0.00	0.00	380	659.43	880.25
105	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
106	G28	C28	460	903.97	769.84	0.00	0.00	0.00	460	903.97	769.84
107	A28	B28	29	492.87	716.08	0.00	0.00	0.00	29	492.87	716.08
108	B28	G28	125	215.04	1057.75	0.00	0.00	0.00	125	215.04	1057.75
109	C28	G28	64	466.05	873.55	0.00	0.00	0.00	64	466.05	873.55
110	E28	G28	67	245.19	731.08	0.00	0.00	0.00	67	245.19	731.08
111	B28	G28	19	235.51	1057.51	0.00	0.00	0.00	19	235.51	1057.51
112	F28	G28	78	16.59	149.60	0.00	0.00	0.00	78	16.59	149.60
113	F28	A28	126	172.08	347.74	0.00	0.00	0.00	126	172.08	347.74
114	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
115	B28	C28	4	528.73	558.16	0.00	0.00	0.00	4	528.73	558.16
116	F28	C28	11	425.08	731.34	0.00	0.00	0.00	11	425.08	731.34
117	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
118	F28	C28	35	190.59	731.82	0.00	0.00	0.00	35	190.59	731.82
119	F28	E28	13	205.55	882.77	0.00	0.00	0.00	13	205.55	882.77
120	F28	E28	13	189.14	886.05	0.00	0.00	0.00	13	189.14	886.05
121	A28	A28	2	455.97	1161.19	0.00	0.00	0.00	2	455.97	1161.19
122	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
123	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
124	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
125	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
126	D28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
127	D28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
128	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
129	F28	C28	11	190.15	732.12	0.00	0.00	0.00	11	190.15	732.12
130	G28	C28	448	905.32	770.24	0.00	0.00	0.00	448	905.32	770.24

131	G28	E28	72	920.89	921.19	0.00	0.00	0.00	72	920.89	921.19
132	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
133	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
134	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
135	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
136	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
137	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
138	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
139	D28	E28	2	2187.39	1229.52	0.00	0.00	0.00	2	2187.39	1229.52
140	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
141	D28	E28	2	2186.62	1232.51	0.00	0.00	0.00	2	2186.62	1232.51
142	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
143	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
144	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
145	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
146	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
147	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
148	F28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
149	C28	B28	4	910.03	757.09	0.00	0.00	0.00	4	910.03	757.09
150	E28	B28	385	972.99	625.89	0.00	0.00	0.00	385	972.99	625.89
151	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
152	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
153	F28	B28	29	350.03	751.33	0.00	0.00	0.00	29	350.03	751.33
154	E28	A28	24	293.41	694.21	0.00	0.00	0.00	24	293.41	694.21
155	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
156	C28	G28	60	656.18	875.68	0.00	0.00	0.00	60	656.18	875.68
157	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
158	B28	D28	182	201.53	699.67	0.00	0.00	0.00	182	201.53	699.67
159	B28	E28	108	197.27	714.59	0.00	0.00	0.00	108	197.27	714.59
160	B28	G28	123	236.54	1062.09	0.00	0.00	0.00	123	236.54	1062.09
161	B28	F28	13	228.56	969.24	0.00	0.00	0.00	13	228.56	969.24
162	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
163	B28	A28	19	363.91	1018.87	0.00	0.00	0.00	19	363.91	1018.87
164	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
165	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
166	B28	C28	97	531.28	555.13	0.00	0.00	0.00	97	531.28	555.13
167	B28	E28	412	548.31	709.11	0.00	0.00	0.00	412	548.31	709.11
168	G28	A28	836	109.56	385.83	0.00	0.00	0.00	836	109.56	385.83
169	G28	B28	173	285.11	789.43	0.00	0.00	0.00	173	285.11	789.43
170	G28	B28	173	178.89	789.81	0.00	0.00	0.00	173	178.89	789.81
171	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
175	G28	C28	110	546.27	770.89	0.00	0.00	0.00	110	546.27	770.89
176	G28	E28	133	561.23	921.85	0.00	0.00	0.00	133	561.23	921.85
177	G28	D28	137	546.07	910.21	0.00	0.00	0.00	137	546.07	910.21
178	G28	E28	57	545.41	925.13	0.00	0.00	0.00	57	545.41	925.13
181	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
185	A28	B28	29	597.11	715.70	0.00	0.00	0.00	29	597.11	715.70
186	A28	C28	59	577.23	699.40	0.00	0.00	0.00	59	577.23	699.40
187	A28	E28	242	594.76	850.36	0.00	0.00	0.00	242	594.76	850.36
195	D28	G28	160	776.77	744.99	0.00	0.00	0.00	160	776.77	744.99
196	D28	F28	55	768.15	652.14	0.00	0.00	0.00	55	768.15	652.14
197	D28	G28	20	774.85	740.41	0.00	0.00	0.00	20	774.85	740.41
198	D28	A28	6	826.52	704.14	0.00	0.00	0.00	6	826.52	704.14
199	D28	B28	153	991.00	1101.91	0.00	0.00	0.00	153	991.00	1101.91
200	D28	B28	153	886.69	1102.29	0.00	0.00	0.00	153	886.69	1102.29
201	D28	C28	287	2162.45	1078.16	0.00	0.00	0.00	287	2162.45	1078.16

204	D28	C28	45	2023.19	1077.09	0.00	0.00	0.00	45	2023.19	1077.09
205	D28	E28	12	2038.72	1228.05	0.00	0.00	0.00	12	2038.72	1228.05
206	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
207	D28	E28	2	2025.22	1231.32	0.00	0.00	0.00	2	2025.22	1231.32
210	A28	G28	257	314.62	1200.07	0.00	0.00	0.00	257	314.62	1200.07
211	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
212	A28	D28	13	371.04	841.86	0.00	0.00	0.00	13	371.04	841.86
213	A28	E28	175	370.94	856.77	0.00	0.00	0.00	175	370.94	856.77
214	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
215	G28	F28	26	585.38	1179.78	0.00	0.00	0.00	26	585.38	1179.78
218	A28	G28	135	408.94	1204.28	0.00	0.00	0.00	135	408.94	1204.28
219	A28	F28	55	400.96	1111.43	0.00	0.00	0.00	55	400.96	1111.43
220	H28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
221	F28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
222	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
223	A28	E28	53	592.36	853.35	0.00	0.00	0.00	53	592.36	853.35
224	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
225	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
226	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
227	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
228	F28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
229	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
230	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
231	A28	G28	10	407.91	1199.70	0.00	0.00	0.00	10	407.91	1199.70
232	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
233	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
234	C28	G28	41	658.40	875.67	0.00	0.00	0.00	41	658.40	875.67
235	E28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
236	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
237	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
238	D28	B28	44	2181.26	1099.55	0.00	0.00	0.00	44	2181.26	1099.55
239	D28	B28	43	2077.03	1099.93	0.00	0.00	0.00	43	2077.03	1099.93
240	G28	C28	50	123.57	770.21	0.00	0.00	0.00	50	123.57	770.21
241	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
242	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
243	G28	D28	11	924.09	909.27	0.00	0.00	0.00	11	924.09	909.27
244	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
245	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
246	E28	C28	47	984.70	1066.29	0.00	0.00	0.00	47	984.70	1066.29
247	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
248	D28	C28	31	2163.30	1078.57	0.00	0.00	0.00	31	2163.30	1078.57
249	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
250	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
251	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
252	F28	C28	11	428.54	731.74	0.00	0.00	0.00	11	428.54	731.74
253	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
254	A28	A28	2	383.61	1163.20	0.00	0.00	0.00	2	383.61	1163.20
255	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
256	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
257	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
258	C28	A28	10	734.42	838.81	0.00	0.00	0.00	10	734.42	838.81
259	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
260	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
261	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
262	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
263	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

264	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
265	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
266	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
267	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

Final Prediction Table

Traffic Stream Results

				SIGNALS		FLOWS		PERFORMANCE				PER PCU			QUEUES	WEIGHTS		PENALTIES	P.I.
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)**	**Delay weighting multiplier (%)**	**Stop weighting multiplier (%)**	**Cost of traffic penalties (£ per hr)**	**P.I.**
A	**1**	(untitled)	6	771-2	E	962 <	2050	28	0.00	97	-7	52.01	46.42	109.01	19.73 +	100	100	0.00	209.81
	2	(untitled)	6	771-2	E	436	2050	28	0.00	44	105	14.61	8.84	38.50	2.82	100	100	0.00	20.60
	3	(untitled)	6	771-2	E	782 <	2050	28	6.12	100	-10	100.83	94.94	155.88	25.07 +	100	100	0.00	331.82
	4	(untitled)	6	771-2	E	522	2050	28	9.00	53	71	22.61	16.58	90.39	8.19	100	100	0.00	49.28
Ac	**1**	(untitled)	6	771-2	D	850 <	2263	22	0.00	98	-8	72.71	65.52	158.43	24.60 +	100	100	0.00	262.95
	2	(untitled)	6	771-2	D	192	2263	22	13.86	23	291	11.18	1.69	31.36	2.08	100	100	0.00	2.31
	3	(untitled)	6	771-2	D	383 <	2263	22	12.84	100	-10	202.66	196.06	253.06	23.22 +	100	100	0.00	327.46
Acf	**1**	(untitled)	6			1042	2263	60	13.01	46	95	5.90	0.68	1.16	2.52	100	100	0.00	3.18
	2	(untitled)	6			383 <	2263	60	49.84	100	-10	182.14	174.90	230.01	21.15 +	100	100	0.00	279.39
Af	**1**	(untitled)	6			1398	2050	60	6.82	69	30	8.49	2.07	5.22	3.74	100	100	0.00	12.32
	2	(untitled)	6			782 <	2050	60	32.62	71	27	25.19	18.81	74.82	9.50 +	100	100	0.00	65.33
	3	(untitled)	6			522	2050	60	15.00	25	254	6.66	0.30	0.00	0.04	100	100	0.00	0.62
B	**1**	(untitled)	1	769-1	B	338	2050	10	1.00	90	0	71.64	64.54	150.25	8.88	100	100	0.00	102.22
	2	(untitled)	1	769-1	B	394 <	2150	10	0.00	100	-10	212.20	204.91	315.28	25.68 +	100	100	0.00	358.48
	3	(untitled)	1	769-1	B	360	2100	10	0.26	96	-6	128.42	120.94	222.50	15.99	100	100	0.00	198.50
	4	(untitled)	1	769-1	B	242	2050	10	0.00	64	40	43.34	31.05	97.04	3.94	100	100	0.00	32.59
Bc	**1**	(untitled)	1	769-1	A	683	2050	38	4.00	51	76	15.21	3.25	23.06	6.11	100	100	0.00	12.27
	2	(untitled)	1	769-1	A	1073 <	2050	38	7.59	100	-10	102.65	90.82	224.39	37.10 +	100	100	0.00	438.08

	3	(untitled)	1	769-1	A	559	2050	38	18.59	52	73	16.22	4.51	42.97	13.81	100	100	0.00	15.29
Bcf	1	(untitled)	1			1812	2263	60	8.00	80	12	7.52	3.16	0.00	1.59	100	100	0.00	22.61
	2	(untitled)	1			683	2263	60	8.00	30	198	6.05	0.34	0.00	0.07	100	100	0.00	0.93
	3	(untitled)	1			1073 <	2263	60	31.55	100	-10	74.16	68.29	133.55	25.51 +	100	100	0.00	323.47
	4	(untitled)	1			559	2263	60	28.00	25	264	6.68	0.26	0.00	0.04	100	100	0.00	0.58
Bf	1	(untitled)	1			732 <	1800	60	33.50	92	-2	152.38	125.05	335.41	43.58 +	100	100	0.00	391.71
	2	(untitled)	1			602	1800	60	0.00	33	169	27.91	0.50	0.00	0.08	100	100	0.00	1.19
C	1	(untitled)	2	769-2	G	481 <	2100	13	0.00	98	-8	194.40	179.87	333.05	28.81 +	100	100	0.00	361.51
	2	(untitled)	2	769-2	G	422	2200	13	0.00	82	9	62.39	47.71	128.91	8.66	100	100	0.00	86.19
	3	(untitled)	2	769-2	G	137	2050	13	10.00	29	215	44.99	30.07	107.12	2.28	100	100	0.00	18.02
Cf	1	(untitled)	2			481 <	1965	60	45.31	100	-10	231.03	213.68	384.16	35.13 +	100	100	0.00	428.76
	2	(untitled)	2			553	1965	60	18.00	28	220	17.86	0.36	0.56	0.05	100	100	0.00	0.82
D	1	(untitled)	3	770-1	B	332	2050	12	0.00	75	20	53.69	49.56	113.15	6.31	100	100	0.00	76.92
	2	(untitled)	3	770-1	B	401 <	1850	12	0.00	100	-10	155.72	151.59	223.82	18.81 +	100	100	0.00	268.47
	3	(untitled)	3	770-1	B	443 <	2250	12	1.18	100	-10	131.22	127.26	180.32	17.01 +	100	100	0.00	248.25
Dc	1	(untitled)	3	770-1	A	790	2100	38	1.25	58	55	11.60	7.80	52.27	6.92	100	100	0.00	37.54
	2	(untitled)	3	770-1	A	782	2100	38	2.00	57	57	8.92	5.27	38.90	5.28	100	100	0.00	26.01
	3	(untitled)	3	770-1	A	359	2100	38	19.00	26	242	6.93	3.42	39.84	2.59	100	100	0.00	9.43
	4	(untitled)	3	770-1	A	377	2100	38	27.00	28	226	8.11	4.74	42.99	2.79	100	100	0.00	12.26
Dcf	1	(untitled)	3			1090	2050	60	12.00	53	69	5.94	1.00	0.00	0.30	100	100	0.00	4.28
	2	(untitled)	3			1414	2100	60	12.44	70	28	7.07	2.13	8.46	3.14	100	100	0.00	15.70
	3	(untitled)	3			782	2100	60	17.00	37	142	5.89	0.51	0.00	0.11	100	100	0.00	1.57
	4	(untitled)	3			359	2100	60	33.00	17	426	6.97	0.18	0.00	0.02	100	100	0.00	0.25
	5	(untitled)	3			377	2100	60	48.00	18	401	5.21	0.19	0.00	0.02	100	100	0.00	0.28
Df	1	(untitled)	3-2			934 <	1900	60	36.86	127	-29	431.60	407.60	342.96	114.46 +	100	100	0.00	1533.15
	2	(untitled)	3-2			500 <	2250	60	48.18	113	-20	268.24	244.24	285.56	38.95 +	100	100	0.00	497.73
Dxp	1	(untitled)	3-2	770-2	D	1090	2050	41	1.00	76	18	8.23	4.74	14.35	2.73	100	100	0.00	25.39
	2	(untitled)	3-2	770-2	D	625	2050	41	5.00	44	107	4.68	1.03	2.20	0.24	100	100	0.00	2.97

Ec	**1**	(untitled)	4	770-3	F	652	2150	35	2.00	51	78	12.13	8.38	55.37	6.17	100	100	0.00	33.15
	2	(untitled)	4	770-3	F	705	2263	35	11.00	52	73	12.99	9.36	60.02	6.95	100	100	0.00	39.61
	3	(untitled)	4	770-3	F	469	2263	35	21.00	35	160	7.22	3.71	32.13	2.97	100	100	0.00	11.70
	4	(untitled)	4	770-3	F	366	2250	35	26.00	27	232	17.62	14.18	101.06	6.05	100	100	0.00	32.30
Ecf	**1**	(untitled)	4			872	2100	60	11.49	43	111	4.55	1.10	6.63	5.02	100	100	0.00	5.65
	2	(untitled)	4			1031	2100	60	10.70	50	81	4.37	0.89	3.07	2.56	100	100	0.00	4.64
	3	(untitled)	4			705	2263	60	30.62	36	152	4.90	1.38	13.50	2.53	100	100	0.00	6.90
	4	(untitled)	4			875	2300	60	35.00	38	136	4.40	0.48	0.00	0.12	100	100	0.00	1.66
Ef	**1**	(untitled)	4			881 <	1900	60	33.63	105	-15	150.24	134.94	229.35	43.41 +	100	100	0.00	492.93
	2	(untitled)	4			630 <	1900	60	41.55	108	-17	190.40	175.10	254.24	37.45 +	100	100	0.00	453.75
Exp	**1**	(untitled)	4-2	770-4	L	872	2050	40	2.00	62	45	7.83	3.94	18.75	5.51	100	100	0.00	18.82
	2	(untitled)	4-2	770-4	L	379	2050	40	8.00	27	232	4.50	0.48	0.00	0.05	100	100	0.00	0.71
F	**1**	(untitled)	5	771-1	B	148	2100	10	0.00	38	135	19.03	12.64	73.65	2.44	100	100	0.00	10.85
	2	(untitled)	5	771-1	B	196	2100	10	0.00	51	77	21.46	15.03	81.99	2.84	100	100	0.00	16.78
	3	(untitled)	5	771-1	B	294 <	2100	10	2.60	100	-10	252.19	245.65	309.43	22.01 +	100	100	0.00	314.15
Fc	**1**	(untitled)	5	771-1	A	808	2263	40	13.00	52	72	20.84	1.77	12.05	2.03	100	100	0.00	7.28
	2	(untitled)	5	771-1	A	555	2263	40	23.77	37	146	20.27	1.34	18.39	3.45	100	100	0.00	4.63
	3	(untitled)	5	771-1	A	903	2263	40	17.06	100	-10	98.24	78.66	228.80	30.74	100	100	0.00	312.02
Ff	**1**	(untitled)	5			344	1900	60	17.00	18	398	33.30	0.21	0.00	0.02	100	100	0.00	0.28
	2	(untitled)	5			294 <	1900	60	50.71	100	-10	627.74	594.69	576.11	55.92 +	100	100	0.00	711.06
G	**1**	(untitled)	2	769-2	F	359 <	2050	13	3.50	100	-10	317.27	301.29	417.59	34.52 +	100	100	0.00	452.70
	2	(untitled)	2	769-2	F	266	2050	13	5.59	58	55	54.83	43.44	118.06	5.22	100	100	0.00	55.63
Gf	**1**	(untitled)	4			357 <	2050	60	49.58	100	-10	124.49	121.46	214.76	15.96 +	100	100	0.00	195.61
	2	(untitled)	4			228	2050	60	48.00	11	708	3.11	0.11	0.19	2.33	100	100	0.00	0.11
xA	**1**	(untitled)	10			884	2263	60	20.17	39	130	17.74	0.52	1.03	2.44	100	100	0.00	2.09
	2	(untitled)	10			595	2263	60	36.00	26	242	17.53	0.28	0.00	0.05	100	100	0.00	0.67
xB	**1**	(untitled)				1812	Unrestricted	60	0.00	0	Unrestricted	5.79	0.00	0.00	0.00	100	100	0.00	0.00
xC	**1**	(untitled)				711 <	1900	60	37.57	100	-10	125.04	116.37	145.91	30.65 +	100	100	0.00	359.84

	2	(untitled)				590	1900	60	39.87	74	21	21.57	12.87	66.19	8.03	100	100	0.00	42.45
xD	1	(untitled)				1090	Unrestricted	60	12.00	0	Unrestricted	9.13	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				625	Unrestricted	60	17.00	0	Unrestricted	9.21	0.00	0.00	0.00	100	100	0.00	0.00
xE	1	(untitled)				872	Unrestricted	60	14.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				379	Unrestricted	60	21.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
xF	1	(untitled)				760	Unrestricted	60	0.00	0	Unrestricted	12.19	0.00	0.00	0.00	100	100	0.00	0.00
Cc1	1	(untitled)	2	769-2	E	676	2050	32	4.00	60	50	18.87	12.31	66.49	8.73	100	100	0.00	50.40
E1	1	(untitled)	4	770-3	G	298	2050	14	6.00	58	55	42.27	36.27	107.64	5.35	100	100	0.00	52.87
	2	(untitled)	4	770-3	G	537 <	2200	14	0.00	98	-8	130.09	124.09	224.26	22.32 +	100	100	0.00	301.77
Gf1	1	(untitled)	4			41	671	60	55.55	7	1146	8.71	5.02	76.16	0.66	100	100	0.00	1.80
Cc2	2	(untitled)	2	769-2	D	999	2150	33	1.02	85	6	27.31	20.46	84.55	14.32	100	100	0.00	109.53
	3	(untitled)	2	769-2	D	665	2050	33	6.00	57	57	18.95	11.82	83.35	11.63	100	100	0.00	47.75
	4	(untitled)	2	769-2	D	1083 <	2150	33	0.00	89	1	28.19	21.63	88.31	17.07 +	100	100	0.00	125.93
	5	(untitled)	2	769-2	D	242	2050	33	26.00	21	332	21.16	13.18	105.46	4.21	100	100	0.00	18.28
E2	3	(untitled)	4	770-3	H	357 <	2150	14	5.03	100	-10	151.81	147.81	203.22	15.94 +	100	100	0.00	231.51
	4	(untitled)	4	770-3	H	227	2050	14	3.00	44	103	36.62	32.54	77.98	2.98	100	100	0.00	34.89
TC5	2	(untitled)	TC771-6	TC777-1	A	740	2263	38	12.00	49	84	5.55	2.79	15.64	1.93	100	100	0.00	9.58
	3	(untitled)	TC771-6	TC777-1	A	595	2263	38	19.00	39	128	3.77	1.01	3.40	0.34	100	100	0.00	2.61
	4	(untitled)	TC771-6	TC777-1	C	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
TC9	1	(untitled)	TC771-6	TC777-1	B	1232 <	1925	39	0.00	91	-2	31.54	20.54	85.56	19.20 +	100	100	0.00	113.01
	2	(untitled)	TC771-6	TC777-1	B	760 <	1966	39	18.82	100	-10	119.21	108.15	273.03	29.23 +	100	100	0.00	350.08
	3	(untitled)	TC771-6	TC777-1	B	355	1947	39	9.00	26	246	16.19	5.07	37.12	2.20	100	100	0.00	8.75
TC35	1	(untitled)	TC771-6	TC777-1	A	144	1900	38	12.00	11	691	6.52	3.62	28.31	1.46	100	100	0.00	2.57
TC36	1	(untitled)	TC771-6			433	1800	60	0.00	24	274	3.34	0.32	0.00	0.04	100	100	0.00	0.54
TC37	1	(untitled)	TC771-6	TC777-2	J	78	1850	45	0.00	5	1537	5.01	1.82	23.46	0.30	100	100	0.00	1.20
TC38	1	(untitled)	TC771-6			78	463	60	14.00	17	434	4.01	2.47	36.99	2.43	100	100	0.00	1.76

TC39	2	(untitled)	TC771-6			740	2263	60	32.00	33	175	2.92	0.39	0.00	0.08	100	100	0.00	1.13
	3	(untitled)	TC771-6			595	2263	60	39.00	26	242	2.68	0.28	0.00	0.05	100	100	0.00	0.67
TC40	2	(untitled)	TC771-6			818	Unrestricted	60	14.00	0	Unrestricted	4.23	0.00	0.00	0.00	100	100	0.00	0.00
	3	(untitled)	TC771-6			595	Unrestricted	60	29.00	0	Unrestricted	4.02	0.00	0.00	0.00	100	100	0.00	0.00
TC41	1	(untitled)	TC771-6	TC777-1	D	355 <	1850	11	0.00	96	-6	87.79	83.86	165.62	11.15 +	100	100	0.00	137.91
TC42	1	(untitled)	TC771-6	TC777-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
TC43	1	(untitled)				0	1800	60	60.00	0	Unrestricted	0.00	0.00	0.00	0.00	100	100	0.00	0.00
47	1	(untitled)	2			1300	1300	60	0.00	100	-10	64.61	48.58	0.00	17.54	100	100	0.00	249.09
48	1	(untitled)	2			1102 <	1965	60	26.37	100	-10	73.90	67.28	89.97	41.05 +	100	100	0.00	304.12
49	1	(untitled)	TC771-6			1232	1900	60	0.00	65	39	4.89	1.74	0.00	0.60	100	100	0.00	8.46
	2	(untitled)	TC771-6			1454 <	1900	60	24.80	130	-31	432.96	429.81	351.06	189.60 +	100	100	0.00	2514.11
50	1	(untitled)	1			1438 <	1900	60	17.88	108	-17	157.54	151.76	247.20	79.69 +	100	100	0.00	902.15
51	1	(untitled)	4-2			1015 <	1900	60	39.86	159	-43	683.92	679.42	413.29	199.89 +	100	100	0.00	2753.19

Pedestrian Crossing Results

				SIGNALS		FLOWS		PERFORMANCE			PER PED		QUEUES	WEIGHTS	PENALTIES	P.I.
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	Journey Time (s)	Mean Delay per Ped (s)	Mean max queue (Ped)	Delay weighting (%)	Cost of traffic penalties (£ per hr)	P.I.
1	1	(untitled)	3-2	770-2	E	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3-2	770-2	E	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
2	1	(untitled)	3	770-1	C	0	11000	36	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3	770-1	C	0	11000	36	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
3	1	(untitled)	4-2	770-4	M	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4-2	770-4	M	0	11000	8	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
4	1	(untitled)	4	770-3	J	0	11000	34	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	J	0	11000	34	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
5	1	(untitled)	4	770-3	I	0	11000	34	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00

	2	(untitled)	4	770-3	I	0	11000	34	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
6	**1**	(untitled)	4	770-3	K	0	0	0	0	-100	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	K	0	0	0	0	-100	0.00	0.00	0.00	100	0.00	0.00
7	**1**	(untitled)	5	771-1	C	0	11000	34	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	5	771-1	C	0	11000	34	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
8	**1**	(untitled)	1	769-1	C	0	11000	34	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	1	769-1	C	0	11000	34	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
9	**1**	(untitled)	2	769-2	J	0	11000	10	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	J	0	11000	10	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
10	**1**	(untitled)	2	769-2	K	0	11000	15	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	K	0	11000	15	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
11	**1**	(untitled)		769-2	H	0	11000	30	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		769-2	H	0	11000	30	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
12	**1**	(untitled)	2	769-2	I	0	11000	30	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	I	0	11000	30	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
13	**1**	(untitled)		TC777-1	I	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	I	0	11000	11	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
14	**1**	(untitled)		TC777-1	F	0	11000	39	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	F	0	11000	39	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
15	**1**	(untitled)		TC777-1	G	0	0	0	0	-100	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	G	0	0	0	0	-100	0.00	0.00	0.00	100	0.00	0.00
16	**1**	(untitled)		TC777-1	H	0	11000	9	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	H	0	11000	9	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
17	**1**	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-2	K	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00

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	6402.18	1415.74	4.52	1250.00	17749.96	1292.16	0.00	19042.12
Bus								
Tram								
Pedestrians	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	6402.18	1415.74	4.52	1250.00	17749.96	1292.16	0.00	19042.12

- *< = 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***