

# TRANSYT 16

Version: 16.0.1.8473  
© Copyright TRL Limited, 2019

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

**The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution**

**Filename:** M62 JN 28 CRF Scheme\_Mar 20\_PF\_Sept 20\_RevC\_mitigation

**DS\_optA+D\_2032\_03.t16**

**Path:** P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\Transyt\Option A+D

**Report generation date:** 24/01/2021 15:58:59

## »Network Diagrams

### «A15 - AM Base 2032 : D15 - AM 2032, :

#### »Summary

#### »Network Options

#### »Traffic Nodes

#### »Arms and Traffic Streams

#### »Pedestrian Crossings

#### »Local OD Matrix - Local Matrix: 1

#### »Signal Timings

#### »Results - Link

#### »Results - Traffic Stream

#### »Data Entry - Stage Start and End

#### »Data Entry - Phase

#### »Data Entry - Traffic Stream

#### »Data entry - Link

#### »Results - Pedestrian

#### »Collections

#### »Point to Point Journey Time

#### »Final Prediction Table

## Summary of network performance

	Set ID	Cycle time (s)	PI (£ per hr)	Total delay (PCU-hr/hr)	Highest DOS	Number oversaturated
	AM Base 2032 - AM 2032					
Network	A15 D15	120	7721.94	584.16	146% (TS 50/1)	13 (9%)

*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-Ambler	Display End-Of-Green Ambler	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

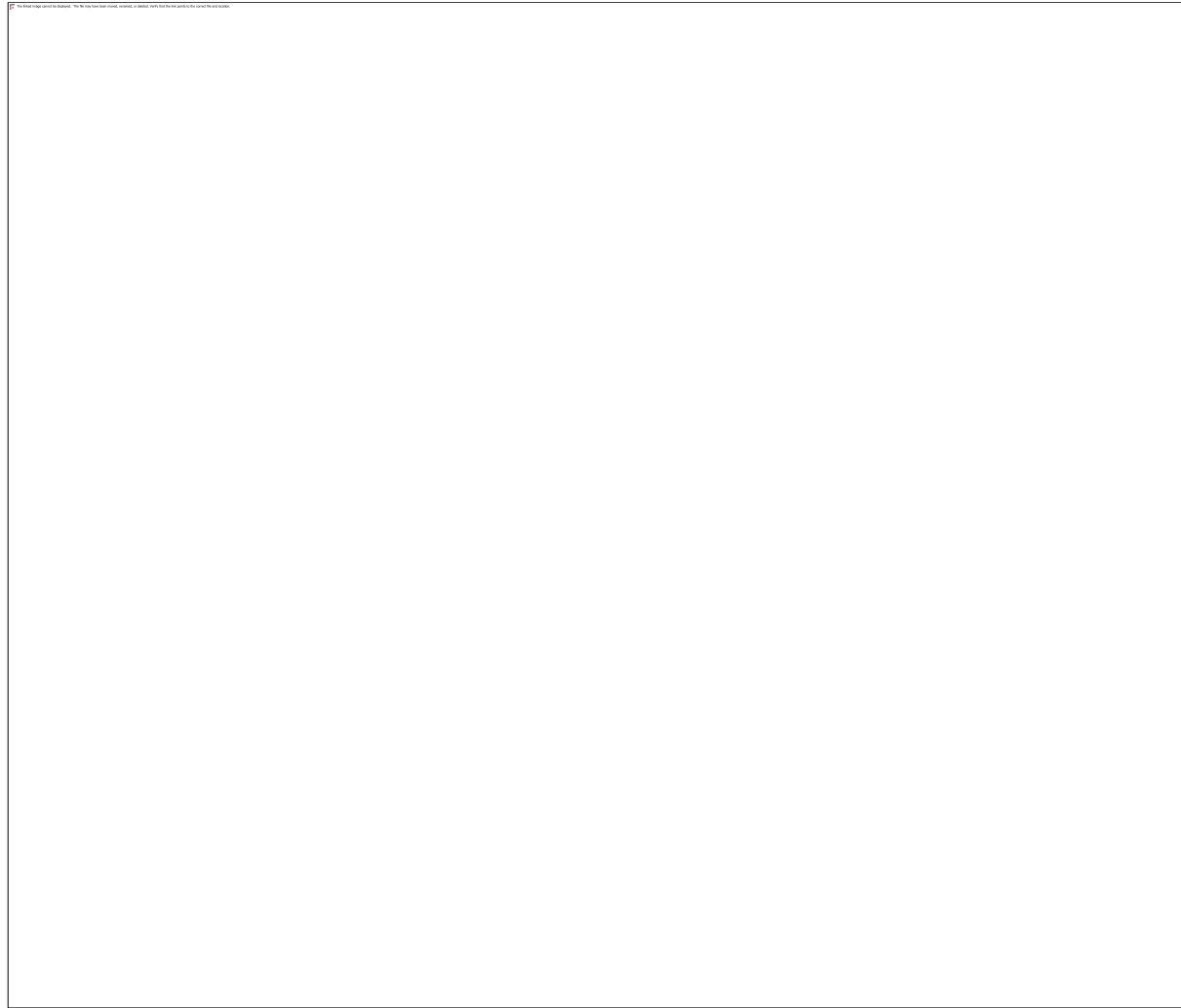
## Sorting

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 D15 - AM 2032,

## 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: Auto Calculate option is switched off - OD flows will not be allocated automatically to the network.
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)	Modeling 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 over all PRC	Network within capacity
15	24/01/2021 15:57:38	24/01/2021 15:57:49	11.84	07:30	120	7721.94	584.16	145.76	50/1	13	9	TC42/1	50/1	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			✓	D15		✓	

## Demand Set Details

Scenario name	Time Period name	Description	Composite	Demand sets	Start time (HH:mm)	Locked	Run automatically
AM 2032					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 <sup>[-2]</sup> )	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

### Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms <sup>[-2]</sup> )	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		✓	769-1, 769-2, 770-1, 770-2, 770-3, 770-4, 771-1, 771-2, 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-calculated 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	✓	74.35	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.69	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.40	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.11	✓	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)		✓	62.77	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	62.62	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.46	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.38	✓	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	✓	122.73	✓	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
<b>D</b>	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
	4	(untitled)	Leeds/M62/Wake	✓	55.42	✓	Directly entered	2250		2250	✓		Normal
<b>Dc</b>	1	(untitled)	Brad	✓	50.91	✓	Directly entered	2100		2100	✓		Normal
	2	(untitled)	Brad/M62W	✓	48.96	✓	Directly entered	2100		2100	✓		Normal
	3	(untitled)	Leeds	✓	47.02	✓	Directly entered	2100		2100	✓		Normal
	4	(untitled)	Leeds/M62E	✓	45.07	✓	Directly entered	2100		2100	✓		Normal
<b>Dcf</b>	1	(untitled)		✓	65.43	✓	Directly entered	2050		2050			Normal
	2	(untitled)		✓	65.28	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	65.54	✓	Directly entered	2100		2100			Normal
	4	(untitled)		✓	67.69	✓	Directly entered	2100		2100			Normal
	5	(untitled)		✓	66.13	✓	Directly entered	2100		2100			Normal
	6	(untitled)		✓	66.17	✓	Directly entered	2050		2050			Normal
<b>Df</b>	1	(untitled)			200.00	✓	Sum of lanes	1900					Normal
	2	(untitled)			200.00	✓	Directly entered	2250					Normal
<b>Dxp</b>	1	(untitled)		✓	45.75	✓	Directly entered	2050			✓		Normal
	2	(untitled)		✓	48.11	✓	Directly entered	2050			✓		Normal
<b>Ec</b>	1	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal
	4	(untitled)	M62E	✓	45.11	✓	Directly entered	2250		2250	✓		Normal
<b>Ecf</b>	1	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	46.95	✓	Directly entered	2263		2263			Normal
	4	(untitled)		✓	47.51	✓	Directly entered	2300		2300			Normal
	5	(untitled)		✓	48.55	✓	Directly entered	2300		2300			Normal
<b>Ef</b>	1	(untitled)		✓	127.54	✓	Directly entered	1900					Normal
	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal
<b>Exp</b>	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)		✓	77.45								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)		✓	121.44								Normal
	2	(untitled)		✓	122.12								Normal
xE	1	(untitled)		✓	173.89								Normal
	2	(untitled)		✓	173.83								Normal
xF	1	(untitled)		✓	162.53								Normal
Cc1	1	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal
E1	1	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal
Gf1	1	(untitled)		✓	47.81						✓		Normal
Cc2	2	(untitled)	Dews	✓	91.52	✓	Directly entered	2150		2100	✓		Normal
	3	(untitled)	Brad/M62W	✓	91.11	✓	Directly entered	2050		2050	✓		Normal
	4	(untitled)	Dews/Brad	✓	90.39	✓	Directly entered	2150		2100	✓		Normal
	5	(untitled)	Leeds	✓	90.48	✓	Directly entered	2050		2050	✓		Normal
	6	(untitled)	Leeds	✓	88.08	✓	Directly entered	2050		2050	✓		Normal
E2	3	(untitled)	Wake	✓	53.28	✓	Directly entered	2150		2050	✓		Normal









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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Ac	1	CTM	500	100	100		0.00	✓	16.50	9999.00				
	2	CTM	50	100	100		0.00	✓	16.50	9999.00				
	3	CTM	500	100	100		0.00	✓	16.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Bc	1	CTM	500	100	100		0.00	✓	22.50	9999.00				

	2	CTM	500	100	100		0.00	✓	22.50	9999.00				
	3	CTM	500	100	100		0.00	✓	22.50	9999.00				
<b>Bcf</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							
<b>Bf</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
<b>C</b>	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
<b>Cf</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
<b>D</b>	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
<b>Dc</b>	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
<b>Dcf</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							
	5	CTM	100	100	100		0.00							
	6	CTM	100	100	100		0.00							
<b>Df</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Dx P</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Ec</b>	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
<b>Ecf</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							
	5	CTM	100	100	100		0.00							
<b>Ef</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Exp</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							

F	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
Fc	1	CTM	500	100	100		0.00	✓	32.0 0	9999. 00				
	2	CTM	500	100	100		0.00	✓	32.0 0	9999. 00				
	3	CTM	500	100	100		0.00	✓	32.0 0	9999. 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	500	100	100		0.00	✓	26.0 0	9999. 00				
	2	CTM	500	100	100		0.00	✓	26.0 0	9999. 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	NetworkDe fault	100	100	100		0.00							
xC	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xD	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
xE	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
xF	1	NetworkDe fault	100	100	100		0.00							
Cc1	1	CTM	100	100	100		0.00							
E1	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
Gf1	1	NetworkDe fault	100	100	100		0.00							
Cc2	2	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	3	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	4	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	5	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	6	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
E2	3	CTM	0	20	100		0.00							
	4	CTM	0	20	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	NetworkDe fault	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	NetworkDe fault	100	100	100		0.00							
TC 43	1	NetworkDe fault	100	100	100		0.00							
47	1	CTM	100	100	100		0.00							
48	1	NetworkDe fault	100	100	100		0.00							
49	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
50	1	NetworkDe fault	100	100	100		0.00							
51	1	NetworkDe fault	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	284	284
	2	281	281
	3	348	348
	4	256	256
Ac	1	735	735
	2	772	772
	3	134	134
Acf	1	1508	1508
	2	134	134
Af	1	565	565
	2	348	348
	3	256	256
B	1	372	372
	2	498	498
	3	498	498
	4	491	491
Bc	1	570	570

	2	476	476
	3	262	262
<b>Bcf</b>	1	1019	1019
	2	1053	1053
	3	476	476
	4	262	262
<b>Bf</b>	1	870	870
	2	989	989
<b>C</b>	1	84	84
	2	904	904
	3	585	585
<b>Cf</b>	1	850	850
	2	723	723
<b>D</b>	1	419	419
	2	431	431
	3	537	537
	4	580	580
<b>Dc</b>	1	881	881
	2	933	933
	3	832	832
	4	779	779
<b>Dcf</b>	1	603	603
	2	299	299
	3	881	881
	4	933	933
	5	832	832
	6	779	779
<b>Df</b>	1	850	850
	2	1117	1117
<b>Dxp</b>	1	603	603
	2	299	299
<b>Ec</b>	1	665	665
	2	1262	1262
	3	1271	1271
	4	587	587
<b>Ecf</b>	1	1063	1063
	2	1170	1170
	3	1262	1262
	4	1271	1271
	5	625	625
<b>Ef</b>	1	922	922
	2	516	516
<b>Exp</b>	1	1063	1063
	2	505	505
<b>F</b>	1	299	299
	2	383	383
	3	50	50
<b>Fc</b>	1	1445	1445
	2	1447	1447
	3	1093	1093
<b>Ff</b>	1	682	682
	2	50	50
<b>G</b>	1	269	269
	2	286	286
<b>Gf</b>	1	269	269

	2	247	247
xA	1	1613	1613
	2	1462	1462
xB	1	1502	1502
xC	1	510	510
	2	459	459
xD	1	603	603
	2	299	299
xE	1	1063	1063
	2	505	505
xF	1	722	722
Cc1	1	415	415
E1	1	416	416
	2	506	506
Gf1	1	38	38
Cc2	2	528	528
	3	684	684
	4	290	290
	5	754	754
	6	497	497
E2	3	269	269
	4	247	247
TC5	2	1378	1378
	3	1462	1462
	4	0	0
TC9	1	546	546
	2	338	338
	3	256	256
TC35	1	235	235
TC36	1	44	44
TC37	1	15	15
TC38	1	15	15
TC39	2	1378	1378
	3	1462	1462
TC40	2	1393	1393
	3	1462	1462
TC41	1	29	29
TC42	1	0	0
TC43	1	0	0
47	1	969	969
48	1	1573	1573
49	1	570	570
	2	570	570
50	1	1859	1859
51	1	732	732

## 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>B</b>	1	769-1	B	
	2	769-1	B	
	3	769-1	B	
	4	769-1	B	
<b>Bc</b>	1	769-1	A	
	2	769-1	A	
	3	769-1	A	
<b>C</b>	1	769-2	G	
	2	769-2	G	
	3	769-2	G	
<b>D</b>	1	770-1	B	
	2	770-1	B	
	3	770-1	B	
	4	770-1	B	
<b>Dc</b>	1	770-1	A	
	2	770-1	A	
	3	770-1	A	
	4	770-1	A	
<b>Dxp</b>	1	770-2	D	
	2	770-2	D	
<b>Ec</b>	1	770-3	F	
	2	770-3	F	
	3	770-3	F	
	4	770-3	F	
<b>Exp</b>	1	770-4	L	
	2	770-4	L	
<b>F</b>	1	771-1	B	
	2	771-1	B	
	3	771-1	B	
<b>Fc</b>	1	771-1	A	
	2	771-1	A	
	3	771-1	A	
<b>G</b>	1	769-2	F	
	2	769-2	F	
<b>Cc1</b>	1	769-2	E	
<b>E1</b>	1	770-3	G	
	2	770-3	G	
<b>Cc2</b>	2	769-2	D	
	3	769-2	D	
	4	769-2	D	
	5	769-2	D	
	6	769-2	D	
<b>E2</b>	3	770-3	H	
	4	770-3	H	
<b>TC5</b>	2	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
<b>TC9</b>	1	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
<b>TC35</b>	1	TC777-1	A	
<b>TC37</b>	1	TC777-2	J	
<b>TC41</b>	1	TC777-1	D	
<b>TC42</b>	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	5.58	48.00	✓	Straight	Straight Movement
	2	1	Af/1	A/2	5.75	48.00	✓	Straight	Straight Movement
	3	1	Af/2	A/3	5.88	48.00	✓	Straight	Straight Movement
	4	1	Af/3	A/4	6.01	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	4.71	48.00	✓	Nearside	68.09
	2	1	A/2	Bcf/2	6.63	34.00	✓	Nearside	71.40
	3	1	A/3	Bcf/3	6.61	34.00	✓	Nearside	74.72
	4	1	A/4	Bcf/4	6.60	34.00	✓	Nearside	78.03
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	14.73	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
	4	1	Df/2	D/4	4.16	48.00	✓	Straight	Straight Movement
Dc	1	1	Dcf/3	Dc/1	6.11	30.00	✓	Offside	56.19
	2	1	Dcf/4	Dc/2	5.88	30.00	✓	Offside	52.87
	3	1	Dcf/5	Dc/3	5.64	30.00	✓	Offside	49.56
	4	1	Dcf/6	Dc/4	5.41	30.00	✓	Offside	46.25
Dcf	1	1	Cc2/2	Dcf/1	4.91	48.00	✓	Straight	Straight Movement
	2	1	Cc2/4	Dcf/2	4.90	48.00	✓	Straight	Straight Movement
	3	1	C/2	Dcf/3	4.92	48.00	✓	Nearside	58.12
	4	1	C/2	Dcf/4	5.08	48.00	✓	Nearside	58.12
	5	1	C/3	Dcf/5	4.96	48.00	✓	Nearside	61.43
	6	1	C/3	Dcf/6	7.94	30.00	✓	Nearside	61.43
Dxp	1	1	Dcf/1	Dxp/1	3.43	48.00	✓	Nearside	60.22
	2	1	Dcf/2	Dxp/2	3.61	48.00	✓	Nearside	63.54
Ec	1	1	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	1	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	1	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	1	Ecf/5	Ec/4	5.41	30.00	✓	Offside	66.48
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	3.56	48.00	✓	Offside	66.17
	5	1	Dc/4	Ecf/5	3.64	48.00	✓	Offside	62.86
Exp	1	1	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	1	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	1	1	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	1	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	1	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	1	1	Ec/2	Fc/1	18.84	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	5.81	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	9.11	48.00	✓	Nearside	44.59
	2	1	Dxp/2	xD/2	9.16	48.00	✓	Nearside	47.90
xE	1	1	Exp/1	xE/1	13.04	48.00	✓	Straight	Straight Movement
	2	1	Exp/2	xE/2	13.04	48.00	✓	Straight	Straight Movement
xF	1	1	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
Cc1	1	1	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
E1	1	1	Ef/1	E1/1	6.00	48.00	✓	Nearside	26.33
	2	1	Ef/1	E1/2	6.00	48.00	✓	Nearside	28.96
Gf1	1	1	Ecf/5	Gf1/1	5.74	30.00	✓	Offside	21.77
Cc2	2	1	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	1	B/3	Cc2/3	8.20	40.00	✓	Straight	Straight Movement
	4	1	B/2	Cc2/4	8.14	40.00	✓	Straight	Straight Movement
	5	1	Bc/3	Cc2/5	6.03	54.00	✓	Offside	96.53
	6	1	Bc/3	Cc2/6	5.87	54.00	✓	Offside	93.22
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	11.07	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	3.95	57.00	✓	Offside	89.74
	3	2	Ac/3	Bcf/3	3.95	57.00	✓	Offside	86.42
	4	2	Ac/3	Bcf/4	3.94	57.00	✓	Offside	86.42
C	2	2	Cf/1	C/2	14.73	30.00	✓	Offside	56.58
Dcf	1	2	C/1	Dcf/1	4.91	48.00	✓	Nearside	54.80
	2	2	C/1	Dcf/2	4.90	48.00	✓	Nearside	54.80
	3	2	Cc2/3	Dcf/3	7.87	30.00	✓	Straight	Straight Movement
	4	2	Cc2/3	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
	5	2	Cc2/5	Dcf/5	7.94	30.00	✓	Offside	99.16
	6	2	Cc2/6	Dcf/6	7.94	30.00	✓	Offside	95.85
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	5.63	30.00	✓	Nearside	46.68
	4	2	D/3	Ecf/4	5.70	30.00	✓	Nearside	49.99
	5	2	D/4	Ecf/5	5.83	30.00	✓	Nearside	53.30
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
xB	1	2	Bcf/2	xB/1	9.29	30.00	✓	Nearside	60.96
xC	1	2	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	2	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
xF	1	2	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
Cc1	1	2	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	2	2	Bc/1	Cc2/2	10.98	30.00	✓	Straight	Straight Movement
	3	2	Bc/2	Cc2/3	10.93	30.00	✓	Offside	99.84
	4	2	Bc/2	Cc2/4	6.03	54.00	✓	Straight	Straight Movement
	5	2	B/4	Cc2/5	8.14	40.00	✓	Straight	Straight Movement
	6	2	B/4	Cc2/6	7.93	40.00	✓	Straight	Straight Movement
TC9	2	2	49/1	TC9/2	11.07	30.00	✓	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
Dcf	4	3	Cc2/5	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
xA	2	3	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	3	3	B/2	Cc2/3	10.93	30.00	✓	Straight	Straight Movement
	5	3	B/3	Cc2/5	10.86	30.00	✓	Straight	Straight Movement

### Give Way Data

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

### Give Way Data - All Movements - Conflicts

Traffic Stream	Description	Controlling type	Controlling traffic stream	Percentage opposing (%)	Slope coefficient	Upstream signals visible
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



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	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	422
	49	I1	C28	D28	Df/1, D/1, Ecf/2, Ec/1, xF/1	Normal	237
	50		E28	D28	Ef/1, E1/1, xF/1	Normal	57
	68		E28	G28	Ef/1, E1/1, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	150
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	33
	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Normal	247
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	319
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	0
	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	53
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	60
	112		F28	G28	TC36/1, TC37/1, TC38/1, TC40/2	Normal	15
	113		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	9
	125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	185
	137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	0
	138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	0
140		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	202	

14 1		B28	F28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	27
14 2		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	75
14 3		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
14 4		B28	G28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	243
14 5		B28	H28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
14 6		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
14 7		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
14 8		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
14 9		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	39
15 0		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	269
15 1		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
15 2		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
15 3		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	7
15 4		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	43
15 5		G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
15 6		G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
15 7		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
15 8		A28	G28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	491
15 9		A28	H28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
16 0		B28	D28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	289
16 1		B28	E28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	368
16 2		B28	D28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
16 3		B28	E28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
16 4		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
16 5		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
16 6		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	75
16 7		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
16 8		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	284
16 9		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	83
17 0		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	47
17 1		G28	H28	49/1, TC9/1, TC43/1	Normal	0
17 2		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
17 3		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0

174		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
175		A28	D28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
176		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
177		H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
178		B28	E28	48/1, Cf/1, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	109
179		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	138
180		A28	H28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
181		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	3
182		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
183		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	35
184		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	0
186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
187		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
188		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
189		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
190		G28	D28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	3
191		D28	F28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
192		D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
193		D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
194		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	251
196		D28	F28	51/1, Ff/1, F/1, xA/1, TC35/1	Normal	48
197		D28	G28	51/1, Ff/1, F/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
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	151
200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	74
201		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
202		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	6
203		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	4
205		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
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

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	84
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
252	F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
283	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
284	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
285	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
286	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
307	G28	C28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	21
317	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	537
318	C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
319	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
320	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
322	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	406
323	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	24
324	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
325	C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
330	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	228
331	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
332	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
334	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
342	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
343	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	32
364	B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
379	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
380	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
381	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
382	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
383	G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
384	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
385	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
386	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
387	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0

388	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
389	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
390	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
391	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
392	D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
393	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
394	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	6
395	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
396	H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
397	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
398	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
399	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
400	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
401	G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	30
402	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
403	G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
404	A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
405	A28	F28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
406	A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
407	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
408	H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
409	H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
410	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
411	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
412	F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
413	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
414	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
415	A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
417	A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
418	G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	51
423	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
424	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
425	E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0

428		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
431		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	155
439		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	129
440		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
441		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
442		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
443		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
444		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
445		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	44
446		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
447		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
448		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
449		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
450		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
451		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	128
452		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	98
453		A28	D28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
454		A28	E28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
455		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
456		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
457		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
458		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
459		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
460		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
461		A28	E28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
462		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	369
463		A28	F28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	73
464		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	56
465		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	461
466		A28	D28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	2
467		G28	A28	49/1, TC9/1, Af/1, A/2, Bcf/2, xB/1	Normal	81
468		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
469		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0

470	B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
471	B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
472	C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
473	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	320
474	E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	72
475	E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
476	D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
477	H28	A28	TC42/1, Af/1, A/2, Bcf/2, xB/1	Normal	0
478	F28	A28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, xB/1	Normal	9

## 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 (%)	Journey Time (s)	
07:30-08:30	A	1	(untitled)	E	284	2050	24	444	64	41	24.68	4.50	34.83	30.25	
		2	(untitled)	E	281	2050	24	444	63	42	25.77	4.81	36.06	31.52	
		3	(untitled)	E	348	2050	24	444	78	15	33.57	6.61	48.49	39.46	
		4	(untitled)	E	256	2050	24	444	58	56	23.01	3.87	27.80	29.01	
	Ac	1	(untitled)	D	733	2263	76	1471	50	81	1.78	4.91	29.46	8.97	
		2	(untitled)	D	769	2263	76	1421	54	66	10.77	7.60	47.33	20.27	
		3	(untitled)	D	134	2263	76	1471	9	888	5.82	2.32	15.19	12.41	
	Acf	1	(untitled)			1502	2263	120	2263	66	36	1.56	0.65	5.39	6.78
		2	(untitled)			134	2263	120	2263	6	1420	0.05	0.00	0.02	7.29
	Af	1	(untitled)			565	2050	120	2050	28	227	0.33	0.05	0.56	6.76

	2	(untitled)		348	2050	120	2050	17	430	0.18	0.02	0.19	6.56
	3	(untitled)		256	2050	120	2050	12	621	0.13	0.01	0.10	6.49
<b>B</b>	1	(untitled)	B	255	2050	18	342	75	20	45.53	5.31	32.26	52.63
	2	(untitled)	B	342	2150	18	342	100	-10	235.25	25.00	147.91	242.54
	3	(untitled)	B	342	2100	18	342	100	-10	234.26	25.00	144.19	241.73
	4	(untitled)	B	337	2050	18	342	99	-9	166.29	18.86	105.91	178.58
<b>Bc</b>	1	(untitled)	A	571	2050	78	1367	42	115	7.08	11.79	51.02	19.04
	2	(untitled)	A	476	2050	78	1367	35	158	12.06	7.19	31.46	23.89
	3	(untitled)	A	262	2050	78	1367	19	369	12.80	4.37	19.32	24.51
<b>Bcf</b>	1	(untitled)		1017	2263	120	2263	45	100	0.65	0.18	1.68	4.82
	2	(untitled)		1050	2263	120	2263	46	94	0.69	0.20	1.84	5.36
	3	(untitled)		476	2263	120	2263	21	328	0.21	0.03	0.26	6.11
	4	(untitled)		262	2263	120	2263	12	677	0.10	0.01	0.07	6.65
<b>Bf</b>	1	(untitled)		597	1800	120	638	94	-4	153.26	39.52	99.75	180.59
	2	(untitled)		679	1800	120	702	97	-7	165.29	47.11	118.58	192.71
<b>C</b>	1	(untitled)	G	84	2100	50	910	9	875	10.28	1.45	6.90	24.82
	2	(untitled)	G	904	2200	50	953	95	-5	43.26	20.22	94.73	57.99
	3	(untitled)	G	586	2050	50	888	66	36	17.65	8.00	36.97	32.57
<b>Cf</b>	1	(untitled)		850	1965	120	1965	43	108	0.70	0.16	0.65	18.05
	2	(untitled)		724	1965	120	1965	37	144	0.53	0.11	0.42	18.04
<b>D</b>	1	(untitled)	B	419	2050	30	547	77	17	30.77	6.87	71.78	34.89
	2	(untitled)	B	430	1850	30	493	87	3	43.31	8.46	88.45	47.44
	3	(untitled)	B	532	2250	30	532	100	-10	106.08	18.01	195.88	110.05
	4	(untitled)	B	575	2250	30	600	96	-6	72.22	14.14	146.70	76.38
<b>Dc</b>	1	(untitled)	A	736	2100	70	1260	58	54	5.79	4.17	47.07	11.90
	2	(untitled)	A	921	2100	70	1260	73	23	10.42	8.23	96.66	16.29
	3	(untitled)	A	676	2100	70	1260	54	68	6.12	5.01	61.33	11.76
	4	(untitled)	A	630	2100	70	1260	50	80	5.50	4.61	58.82	10.91
<b>Dcf</b>	1	(untitled)		503	2050	120	2050	25	267	0.29	0.04	0.35	5.19
	2	(untitled)		299	2100	120	2100	14	532	0.14	0.01	0.10	5.04
	3	(untitled)		736	2100	120	2100	35	157	0.46	0.09	0.83	7.34
	4	(untitled)		921	2100	120	1689	55	65	3.72	4.54	38.56	9.67

	5	(untitled)		676	2100	120	2100	32	180	0.41	0.08	0.66	7.00
	6	(untitled)		630	2050	120	2050	31	193	0.39	0.07	0.59	8.33
Df	1	(untitled)		849	1900	120	1900	45	101	0.76	0.18	0.52	24.76
	2	(untitled)		1117	2250	120	1107	101	-11	74.67	37.10	106.65	98.67
Dxp	1	(untitled)	D	503	2050	102	1760	29	215	0.59	0.64	8.02	4.02
	2	(untitled)	D	299	2050	102	1760	17	430	0.25	0.05	0.62	3.85
Ec	1	(untitled)	F	664	2150	70	1290	52	75	6.84	5.09	58.48	10.60
	2	(untitled)	F	1106	2263	70	1358	81	11	12.76	8.12	96.40	16.40
	3	(untitled)	F	1117	2263	70	1358	82	9	12.47	8.04	98.83	15.97
	4	(untitled)	F	582	2250	70	1350	43	109	1.09	0.20	2.49	6.50
Ecf	1	(untitled)		918	2100	120	2100	44	106	0.67	2.49	31.15	4.11
	2	(untitled)		1158	2100	120	2100	55	63	1.05	0.34	4.20	4.53
	3	(untitled)		1106	2263	120	2031	54	65	2.39	6.56	80.39	6.73
	4	(untitled)		1117	2300	120	2081	54	68	2.83	7.07	85.56	7.41
	5	(untitled)		620	2300	120	2300	27	234	0.29	0.05	0.59	5.96
Ef	1	(untitled)		921	1900	120	1900	48	86	0.89	0.23	1.03	16.20
	2	(untitled)		516	1900	120	1900	27	231	0.35	0.05	0.23	15.66
Exp	1	(untitled)	L	918	2050	102	1760	52	72	2.17	4.93	54.71	6.06
	2	(untitled)	L	494	2050	102	1760	28	221	0.40	0.05	0.59	4.43
F	1	(untitled)	B	299	2100	20	385	78	16	38.85	5.52	37.31	45.23
	2	(untitled)	B	383	2100	20	385	99	-10	107.41	14.50	97.29	113.84
	3	(untitled)	B	50	2100	20	385	13	593	21.25	2.33	15.35	27.79
Fc	1	(untitled)	A	1289	2263	80	1546	83	8	10.14	9.11	28.58	29.24
	2	(untitled)	A	1292	2263	80	1390	93	-3	20.77	22.14	70.16	39.67
	3	(untitled)	A	1088	2263	80	1461	74	21	4.62	7.58	24.16	23.97
Ff	1	(untitled)		682	1900	120	1900	36	151	0.53	0.10	0.21	33.62
	2	(untitled)		50	1900	120	1900	3	3320	0.03	0.00	0.00	33.07
G	1	(untitled)	F	269	2050	48	837	32	180	1.26	3.49	12.92	17.24
	2	(untitled)	F	285	2050	48	837	34	164	4.12	4.74	17.95	15.50
Gf	1	(untitled)		269	2050	120	2050	13	586	0.13	0.01	0.14	3.17
	2	(untitled)		247	2050	120	2050	12	647	0.12	0.01	0.12	3.12
xA	1	(untitled)		1474	2263	120	2098	70	28	2.95	19.38	48.51	20.18

	2	(untitled)		1290	2263	120	2131	61	49	1.99	25.97	64.94	19.24
<b>xB</b>	1	(untitled)		1496	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	6.93
<b>xC</b>	1	(untitled)		510	1900	120	1230	41	117	4.95	7.11	35.38	13.62
	2	(untitled)		442	1900	120	1465	30	198	2.72	4.75	23.56	11.41
<b>xD</b>	1	(untitled)		503	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.11
	2	(untitled)		299	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.16
<b>xE</b>	1	(untitled)		918	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		494	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
<b>xF</b>	1	(untitled)		721	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
<b>Cc1</b>	1	(untitled)	E	398	2050	44	785	51	77	9.47	2.78	16.70	16.06
<b>E1</b>	1	(untitled)	G	415	2050	28	513	81	11	35.45	7.36	52.90	41.45
	2	(untitled)	G	506	2200	28	550	92	-2	52.43	11.67	83.86	58.43
<b>Gf1</b>	1	(untitled)		38	697	120	697	5	1563	0.15	0.00	0.02	5.89
<b>Cc2</b>	2	(untitled)	D	428	2150	46	845	51	78	11.47	5.60	35.19	21.05
	3	(untitled)	D	528	2050	46	814	65	39	8.98	7.90	49.83	19.91
	4	(untitled)	D	290	2150	46	859	34	167	8.29	2.69	17.14	14.31
	5	(untitled)	D	598	2050	46	813	74	22	6.11	4.74	30.11	14.90
	6	(untitled)	D	348	2050	46	820	42	112	2.59	7.97	52.06	10.49
<b>E2</b>	3	(untitled)	H	269	2150	28	528	51	76	22.96	3.78	40.75	26.96
	4	(untitled)	H	247	2050	28	513	48	87	22.45	3.45	36.49	26.52
<b>TC5</b>	2	(untitled)	A	1262	2263	101	1942	65	39	2.65	3.50	87.37	5.41
	3	(untitled)	A	1290	2263	101	1942	66	35	2.30	3.55	88.74	5.06
	4	(untitled)	C	0	1800	7	120	0	Unrestricted	0.00	0.00	0.00	0.00
<b>TC9</b>	1	(untitled)	B	546	1925	90	1492	37	146	4.94	5.16	32.33	15.94
	2	(untitled)	B	338	1966	90	1524	22	306	4.01	2.97	18.55	15.07
	3	(untitled)	B	256	1947	90	1509	17	430	3.74	2.08	12.90	14.87
<b>TC35</b>	1	(untitled)	A	212	1900	101	1631	13	592	1.06	0.53	12.61	3.96
<b>TC36</b>	1	(untitled)		44	1800	120	1800	2	3582	0.03	0.00	0.01	3.05
<b>TC37</b>	1	(untitled)	J	15	1850	105	1634	1	9705	0.89	0.06	0.76	4.08
<b>TC38</b>	1	(untitled)		15	258	120	258	6	1449	6.90	2.42	65.20	8.43
<b>TC39</b>	2	(untitled)		1262	2263	120	2263	56	61	1.00	0.35	5.73	3.54
	3	(untitled)		1290	2263	120	2263	57	58	1.05	0.38	6.52	3.45

	TC4 0	2	(untitled)		1277	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		1290	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC4 1	1	(untitled)	D	29	1850	8	139	21	331	55.61	2.44	25.71	59.55
	TC4 2	1	(untitled)	E	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC4 3	1	(untitled)		0	1800	120	1800	0	Unrestricted	0.00	0.00	0.00	0.00
	47	1	(untitled)		952	1300	120	1300	73	23	3.75	0.99	4.27	19.79
	48	1	(untitled)		1574	1965	120	1965	80	12	3.64	1.59	16.61	10.26
	49	1	(untitled)		570	1900	120	1900	30	200	0.41	0.06	1.41	3.55
		2	(untitled)		570	1900	120	1900	30	200	0.41	0.06	1.41	3.55
	50	1	(untitled)		1859	1900	120	1275	146	-38	573.27	313.78	3747.40	579.05
	51	1	(untitled)		732	1900	120	1900	39	134	0.59	0.12	1.85	5.09

## 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	23	62	39	1	7
	2	✓	2	B	69	78	9	1	7
	3		1	A	83	2	39	1	7
	4		2	B	9	18	9	1	7
769-2	1	✓	4	D,E,H,I	79	96	17	1	3
	2	✓	5	F,G,J,K	107	5	18	1	8
	3		4	D,E,H,I	19	36	17	1	3
	4		5	F,G,J,K	47	65	18	1	8
770-1	1	✓	1	A,C	13	46	33	1	5
	2	✓	2	B	53	68	15	1	7
	3		1	A,C	73	106	33	1	5
	4		2	B	113	8	15	1	7
770-2	1	✓	4	D	24	6	102	1	7
	2	✓	5	E	11	17	6	1	5
770-3	1	✓	7	F,I,J	57	87	30	1	2
	2	✓	9	G,H	98	105	7	1	1
	3		7	F,I,J	117	27	30	1	2
	4		9	G,H	38	45	7	1	1
770-4	1	✓	11	L	13	115	102	1	7
	2	✓	12	M	0	6	6	1	6
771-1	1	✓	1	A,C	56	90	34	1	9
	2	✓	3	B	101	111	10	1	7
	3		1	A,C	116	30	34	1	9
	4		3	B	41	51	10	1	7
771-2	1	✓	5	D	70	108	38	1	7
	2	✓	6	E	113	5	12	1	7
	3		5	D	10	48	38	1	7
	4		6	E	53	65	12	1	7

TC777-1	1	✓	1	A,B,F	22	111	89	1	6
	2	✓	2	A,C,F,G	116	3	7	1	7
	3	✓	5	D,H,I	10	16	6	1	6
TC777-2	1	✓	1	J	111	96	105	1	7
	2	✓	2	K	101	106	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
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	✓	74.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	2	✓	76.69	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	3	✓	78.40	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	4	✓	80.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Ac	1	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	50
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	20	0
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Bc	1	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
Bcf	1	✓	62.77	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	62.62	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.46	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	62.38	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	20	0
	2	✓	122.73	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	20	0
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	20	0
	3	✓	52.87	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
	4	✓	55.42	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
Dc	1	✓	50.91	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	2	✓	48.96	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	3	✓	47.02	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	4	✓	45.07	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
Dcf	1	✓	65.43	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.28	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	65.54	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	67.69	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.13	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	6	✓	66.17	CTM	0.00	Normal	✓			Directly entered	2050	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	✓	45.75	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.11	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	1	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	4	✓	45.11	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	500
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	✓	46.95	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	47.51	CTM	0.00	Normal	✓			Directly entered	2300	100	100
	5	✓	48.55	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	1	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	1	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	1	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0

	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
Fc	1	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	500
	2	✓	151.80	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
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	✓	77.45	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	✓	121.44	NetworkDefault	0.00	Normal						100	100
	2	✓	122.12	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	20	0
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
Gf1	1	✓	47.81	NetworkDefault	0.00	Normal			✓			100	100
Cc2	2	✓	91.52	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	3	✓	91.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	4	✓	90.39	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	5	✓	90.48	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	6	✓	88.08	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
E2	3	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0

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	✓	92.21	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	6	0.00	0.00
		2	0	0	6	0.00	0.00
	2	1	0	0	66	0.00	0.00
		2	0	0	66	0.00	0.00
	3	1	0	0	6	0.00	0.00
		2	0	0	6	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	40	0.00	0.00
		2	0	0	40	0.00	0.00
	10	1	0	0	52	0.00	0.00
		2	0	0	52	0.00	0.00
	11	1	0	0	44	0.00	0.00
		2	0	0	44	0.00	0.00
	12	1	0	0	42	0.00	0.00
		2	0	0	42	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	7	0.00	0.00
		2	0	0	7	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

Note: Auto Calculate disabled on this Local Matrix (Paths and Flow Allocation might not be up to date).

#### Average Journey Time (s) for Local Matrix: 1

	To								
	A28	B28	C28	D28	E28	F28	G28	H28	
From	A28	0.0	853.0	842.4	1076.7	1056.1	1127.7	1103.4	0.0
	B28	155.1	0.0	72.5	143.8	133.6	164.2	179.4	0.0
	C28	241.2	252.1	0.0	82.6	87.0	139.6	233.2	0.0
	D28	171.9	256.4	261.2	0.0	207.1	109.5	118.8	0.0
	E28	126.4	95.2	182.8	69.8	0.0	113.2	125.3	0.0
	F28	132.0	188.9	181.8	222.1	212.0	0.0	19.8	0.0
	G28	68.9	128.8	122.5	148.9	155.5	189.9	0.0	0.0
	H28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

#### Path Journey Time

Path	From Location	To Location	Normal Calculated Flow (PCU/hr)	Normal journey time (s)	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)
32	C28	E28	182	87.01	526.66	0.00	0.00	0.00	182	87.01	526.66
36	C28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

41	E28	A28	422	125.55	693.45	0.00	0.00	0.00	422	125.55	693.45
49	C28	D28	237	82.58	514.00	0.00	0.00	0.00	237	82.58	514.00
50	E28	D28	57	69.83	370.08	0.00	0.00	0.00	57	69.83	370.08
68	E28	G28	150	122.43	737.43	0.00	0.00	0.00	150	122.43	737.43
92	E28	F28	33	113.25	644.57	0.00	0.00	0.00	33	113.25	644.57
100	E28	B28	247	90.72	623.35	0.00	0.00	0.00	247	90.72	623.35
102	A28	C28	319	842.43	694.76	0.00	0.00	0.00	319	842.43	694.76
103	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
105	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
107	A28	B28	53	856.36	716.08	0.00	0.00	0.00	53	856.36	716.08
110	E28	G28	60	132.40	731.08	0.00	0.00	0.00	60	132.40	731.08
112	F28	G28	15	19.79	149.60	0.00	0.00	0.00	15	19.79	149.60
113	F28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
115	B28	C28	9	72.36	556.36	0.00	0.00	0.00	9	72.36	556.36
125	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
130	G28	C28	185	122.69	769.88	0.00	0.00	0.00	185	122.69	769.88
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
140	B28	G28	202	174.00	1063.74	0.00	0.00	0.00	202	174.00	1063.74
141	B28	F28	27	164.25	970.89	0.00	0.00	0.00	27	164.25	970.89
142	B28	G28	75	172.42	1059.16	0.00	0.00	0.00	75	172.42	1059.16
143	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
144	B28	G28	243	185.95	1054.40	0.00	0.00	0.00	243	185.95	1054.40
145	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
146	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
147	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
148	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
149	B28	A28	39	156.03	1016.14	0.00	0.00	0.00	39	156.03	1016.14
150	E28	B28	269	99.25	625.89	0.00	0.00	0.00	269	99.25	625.89
151	B28	B28	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	7	188.91	750.62	0.00	0.00	0.00	7	188.91	750.62
154	E28	A28	43	125.03	694.61	0.00	0.00	0.00	43	125.03	694.61
155	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
156	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
157	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
158	A28	G28	491	1074.57	1196.15	0.00	0.00	0.00	491	1074.57	1196.15
159	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
160	B28	D28	289	143.84	698.10	0.00	0.00	0.00	289	143.84	698.10
161	B28	E28	368	136.97	713.02	0.00	0.00	0.00	368	136.97	713.02
162	B28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
163	B28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
164	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
165	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
166	B28	C28	75	72.49	553.47	0.00	0.00	0.00	75	72.49	553.47
167	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
168	G28	A28	284	67.68	386.06	0.00	0.00	0.00	284	67.68	386.06
169	G28	B28	83	129.18	788.72	0.00	0.00	0.00	83	129.18	788.72
170	G28	B28	47	128.09	789.10	0.00	0.00	0.00	47	128.09	789.10
171	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
172	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
173	F28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
174	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
175	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
176	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
177	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

178	B28	E28	109	128.51	710.57	0.00	0.00	0.00	109	128.51	710.57
179	B28	E28	138	128.50	711.82	0.00	0.00	0.00	138	128.50	711.82
180	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
181	F28	C28	3	181.84	729.68	0.00	0.00	0.00	3	181.84	729.68
182	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
183	A28	E28	35	1058.70	854.82	0.00	0.00	0.00	35	1058.70	854.82
184	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
185	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
186	A28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
187	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
188	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
189	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
190	G28	D28	3	176.84	910.75	0.00	0.00	0.00	3	176.84	910.75
191	D28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
192	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
193	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
194	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
195	D28	G28	251	118.85	744.99	0.00	0.00	0.00	251	118.85	744.99
196	D28	F28	48	109.47	652.14	0.00	0.00	0.00	48	109.47	652.14
197	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
198	D28	A28	3	190.18	704.54	0.00	0.00	0.00	3	190.18	704.54
199	D28	B28	151	257.75	1101.39	0.00	0.00	0.00	151	257.75	1101.39
200	D28	B28	74	256.44	1101.77	0.00	0.00	0.00	74	256.44	1101.77
201	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
202	F28	D28	6	222.10	872.14	0.00	0.00	0.00	6	222.10	872.14
203	F28	E28	4	211.96	887.06	0.00	0.00	0.00	4	211.96	887.06
205	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
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
246	E28	C28	84	182.76	1066.04	0.00	0.00	0.00	84	182.76	1066.04
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
252	F28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
283	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
284	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
285	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
286	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
307	G28	C28	21	122.69	769.88	0.00	0.00	0.00	21	122.69	769.88
317	C28	G28	537	297.11	870.70	0.00	0.00	0.00	537	297.11	870.70
318	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
319	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
320	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
322	C28	G28	406	148.77	880.26	0.00	0.00	0.00	406	148.77	880.26
323	C28	F28	24	139.59	787.41	0.00	0.00	0.00	24	139.59	787.41
324	C28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
325	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
330	C28	A28	228	236.00	834.99	0.00	0.00	0.00	228	236.00	834.99
331	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
332	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
334	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
342	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
343	C28	B28	32	252.10	753.20	0.00	0.00	0.00	32	252.10	753.20
364	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
379	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
380	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
381	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

382	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
383	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
384	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
385	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
386	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
387	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
388	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
389	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
390	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
391	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
392	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
393	D28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
394	D28	B28	6	223.32	1448.06	0.00	0.00	0.00	6	223.32	1448.06
395	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
396	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
397	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
398	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
399	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
400	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
401	G28	F28	30	189.86	1180.56	0.00	0.00	0.00	30	189.86	1180.56
402	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
403	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
404	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
405	A28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
406	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
407	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
408	H28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
409	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
410	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
411	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
412	F28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
413	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
414	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
415	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
417	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
418	G28	C28	51	121.62	767.78	0.00	0.00	0.00	51	121.62	767.78
423	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
424	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
425	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
428	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
431	D28	C28	155	261.22	1080.45	0.00	0.00	0.00	155	261.22	1080.45
439	G28	E28	129	168.20	923.21	0.00	0.00	0.00	129	168.20	923.21
440	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
441	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
442	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
443	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
444	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
445	D28	E28	44	207.08	1231.65	0.00	0.00	0.00	44	207.08	1231.65
446	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
447	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
448	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
449	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
450	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
451	G28	D28	128	148.24	910.65	0.00	0.00	0.00	128	148.24	910.65
452	G28	E28	98	138.71	925.57	0.00	0.00	0.00	98	138.71	925.57
453	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

454	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
455	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
456	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
457	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
458	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
459	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
460	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
461	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
462	A28	G28	369	1136.84	1205.17	0.00	0.00	0.00	369	1136.84	1205.17
463	A28	F28	73	1127.66	1112.32	0.00	0.00	0.00	73	1127.66	1112.32
464	A28	G28	56	1135.72	1200.59	0.00	0.00	0.00	56	1135.72	1200.59
465	A28	E28	461	1055.91	852.36	0.00	0.00	0.00	461	1055.91	852.36
466	A28	D28	2	1076.73	839.90	0.00	0.00	0.00	2	1076.73	839.90
467	G28	A28	81	73.34	388.25	0.00	0.00	0.00	81	73.34	388.25
468	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
469	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
470	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
471	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
472	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
473	C28	A28	320	244.87	831.37	0.00	0.00	0.00	320	244.87	831.37
474	E28	A28	72	132.14	690.99	0.00	0.00	0.00	72	132.14	690.99
475	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
476	D28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
477	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
478	F28	A28	9	132.00	350.15	0.00	0.00	0.00	9	132.00	350.15

## Final Prediction Table

### Traffic Stream Results

Arm	Traffic Stream	Name	Traffic node	SIGNALS		FLOWS		PERFORMANCE				PER PCU		QUES	WEIGHTS		PENALTIES	P.I.	
				Controller stream	Phase	Calculate d 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 que (PCU)	Delay weighting multiplier (%)	Stop weighting multiplier (%)	Cost of traffic penalties (£ per hr)	P.I.
A	1	(untitled)	6	771-2	E	284	2050	24	1.00	64	41	30.25	24.68	93.95	4.50	20	0	0.00	5.53
	2	(untitled)	6	771-2	E	281	2050	24	1.00	63	42	31.52	25.77	94.82	4.81	20	0	0.00	5.71
	3	(untitled)	6	771-2	E	348	2050	24	1.00	78	15	39.46	33.57	108.78	6.61	20	0	0.00	9.22
	4	(untitled)	6	771-2	E	256	2050	24	0.00	58	56	29.01	23.01	92.14	3.87	20	0	0.00	4.65
Ac	1	(untitled)	6	771-2	D	733	2263	76	14.00	50	81	8.97	1.78	14.52	4.91	100	500	0.00	22.22
	2	(untitled)	6	771-2	D	769	2263	76	22.64	54	66	20.27	10.77	60.57	7.60	100	50	0.00	36.65
	3	(untitled)	6	771-2	D	134	2263	76	46.00	9	888	12.41	5.82	37.52	2.32	100	500	0.00	11.14
Ac f	1	(untitled)	6			1502	2263	120	30.00	66	36	6.78	1.56	0.00	0.65	100	100	0.00	9.27
	2	(untitled)	6			134	2263	120	84.00	6	1420	7.29	0.05	0.00	0.00	100	100	0.00	0.03

Af	1	(untitled)	6			565	2050	120	25.00	28	227	6.76	0.33	0.00	0.05	100	100	0.00	0.74
	2	(untitled)	6			348	2050	120	25.00	17	430	6.56	0.18	0.00	0.02	100	100	0.00	0.25
	3	(untitled)	6			256	2050	120	27.00	12	621	6.49	0.13	0.00	0.01	100	100	0.00	0.13
B	1	(untitled)	1	769-1	B	255	2050	18	4.00	75	20	52.63	45.53	123.36	5.31	20	0	0.00	9.17
	2	(untitled)	1	769-1	B	342 <	2150	18	0.93	100	-10	242.54	235.25	281.60	25.00+	20	0	0.00	63.41
	3	(untitled)	1	769-1	B	342 <	2100	18	0.48	100	-10	241.73	234.26	284.17	25.00+	20	0	0.00	63.14
	4	(untitled)	1	769-1	B	337 <	2050	18	0.00	99	-9	178.58	166.29	256.31	18.86+	20	0	0.00	44.19
Bc	1	(untitled)	1	769-1	A	571	2050	78	45.00	42	115	19.04	7.08	57.78	11.79	100	500	0.00	52.72
	2	(untitled)	1	769-1	A	476	2050	78	42.00	35	158	23.89	12.06	88.72	7.19	100	500	0.00	69.71
	3	(untitled)	1	769-1	A	262	2050	78	64.00	19	369	24.51	12.80	102.28	4.37	100	500	0.00	43.10
Bc f	1	(untitled)	1			1017	2263	120	31.00	45	100	4.82	0.65	0.00	0.18	100	100	0.00	2.60
	2	(untitled)	1			1050	2263	120	37.00	46	94	5.36	0.69	0.00	0.20	100	100	0.00	2.85
	3	(untitled)	1			476	2263	120	63.00	21	328	6.11	0.21	0.00	0.03	100	100	0.00	0.40
	4	(untitled)	1			262	2263	120	90.00	12	677	6.65	0.10	0.00	0.01	100	100	0.00	0.11
Bf	1	(untitled)	1			597	1800	120	77.46	94	-4	180.59	153.26	349.32	39.52	100	100	0.00	386.97
	2	(untitled)	1			679 <	1800	120	73.23	97	-7	192.71	165.29	359.81	47.11+	100	100	0.00	473.01
C	1	(untitled)	2	769-2	G	84	2100	50	0.00	9	875	24.82	10.28	57.00	1.45	20	0	0.00	0.68
	2	(untitled)	2	769-2	G	904	2200	50	0.00	95	-5	57.99	43.26	128.30	20.22	20	0	0.00	30.85
	3	(untitled)	2	769-2	G	586	2050	50	0.00	66	36	32.57	17.65	78.59	8.00	20	0	0.00	8.16
Cf	1	(untitled)	2			850	1965	120	0.00	43	108	18.05	0.70	0.00	0.16	100	100	0.00	2.34
	2	(untitled)	2			724	1965	120	0.00	37	144	18.04	0.53	0.00	0.11	100	100	0.00	1.52
D	1	(untitled)	3	770-1	B	419	2050	30	0.00	77	17	34.89	30.77	97.43	6.87	20	0	0.00	10.17
	2	(untitled)	3	770-1	B	430	1850	30	0.00	87	3	47.44	43.31	114.72	8.46	20	0	0.00	14.69
	3	(untitled)	3	770-1	B	532 <	2250	30	3.62	100	-10	110.05	106.08	132.64	18.01+	20	0	0.00	44.53
	4	(untitled)	3	770-1	B	575 <	2250	30	0.00	96	-6	76.38	72.22	136.50	14.14+	20	0	0.00	32.74
Dc	1	(untitled)	3	770-1	A	736	2100	70	15.00	58	54	11.90	5.79	33.93	4.17	100	500	0.00	32.48
	2	(untitled)	3	770-1	A	921	2100	70	4.00	73	23	16.29	10.42	53.50	8.23	100	500	285.50	354.27
	3	(untitled)	3	770-1	A	676	2100	70	16.00	54	68	11.76	6.12	44.36	5.01	100	500	0.00	35.11

	4	(untitled)	3	770-1	A	630	2100	70	28.00	50	80	10.91	5.50	42.25	4.61	100	500	0.00	30.33
Dc f	1	(untitled)	3			503	2050	120	30.00	25	267	5.19	0.29	0.00	0.04	100	100	0.00	0.57
	2	(untitled)	3			299	2100	120	87.00	14	532	5.04	0.14	0.00	0.01	100	100	0.00	0.17
	3	(untitled)	3			736	2100	120	27.00	35	157	7.34	0.46	0.00	0.09	100	100	0.00	1.34
	4	(untitled)	3			921	2100	120	43.46	55	65	9.67	3.72	26.78	4.54	100	100	0.00	20.06
	5	(untitled)	3			676	2100	120	32.00	32	180	7.00	0.41	0.00	0.08	100	100	0.00	1.08
	6	(untitled)	3			630	2050	120	46.00	31	193	8.33	0.39	0.00	0.07	100	100	0.00	0.97
Df	1	(untitled)	3-2			849	1900	120	0.00	45	101	24.76	0.76	0.00	0.18	100	100	0.00	2.56
	2	(untitled)	3-2			1117 <	2250	120	60.97	101	-11	98.67	74.67	174.04	37.10+	100	100	0.00	353.16
Dx P	1	(untitled)	3-2	770-2	D	503	2050	102	12.00	29	215	4.02	0.59	2.00	0.64	100	100	0.00	1.50
	2	(untitled)	3-2	770-2	D	299	2050	102	56.00	17	430	3.85	0.25	0.50	0.05	100	100	0.00	0.34
Ec	1	(untitled)	4	770-3	F	664	2150	70	8.00	52	75	10.60	6.84	37.72	5.09	100	500	0.00	58.16
	2	(untitled)	4	770-3	F	1106	2263	70	6.00	81	11	16.40	12.76	44.60	8.12	100	500	35.89	170.70
	3	(untitled)	4	770-3	F	1117	2263	70	0.00	82	9	15.97	12.47	44.06	8.04	100	500	6.54	140.43
	4	(untitled)	4	770-3	F	582	2250	70	22.00	43	109	6.50	1.09	2.01	0.20	100	500	0.00	3.23
Ec f	1	(untitled)	4			918	2100	120	31.00	44	106	4.11	0.67	1.11	2.49	100	100	0.00	2.74
	2	(untitled)	4			1158	2100	120	20.00	55	63	4.53	1.05	0.00	0.34	100	100	0.00	4.81
	3	(untitled)	4			1106	2263	120	38.29	54	65	6.73	2.39	22.49	6.56	100	100	0.00	16.50
	4	(untitled)	4			1117	2300	120	45.40	54	68	7.41	2.83	25.92	7.07	100	100	0.00	19.06
	5	(untitled)	4			620	2300	120	72.00	27	234	5.96	0.29	0.00	0.05	100	100	0.00	0.71
Ef	1	(untitled)	4			921	1900	120	0.00	48	86	16.20	0.89	0.00	0.23	100	100	0.00	3.23
	2	(untitled)	4			516	1900	120	0.00	27	231	15.66	0.35	0.00	0.05	100	100	0.00	0.72
Ex P	1	(untitled)	4-2	770-4	L	918	2050	102	24.00	52	72	6.06	2.17	13.25	4.93	100	100	0.00	11.77
	2	(untitled)	4-2	770-4	L	494	2050	102	35.00	28	221	4.43	0.40	0.00	0.05	100	100	0.00	0.78
F	1	(untitled)	5	771-1	B	299	2100	20	0.00	78	16	45.23	38.85	109.25	5.52	20	0	0.00	9.16
	2	(untitled)	5	771-1	B	383	2100	20	0.00	99	-10	113.84	107.41	188.72	14.50	20	0	0.00	32.45
	3	(untitled)	5	771-1	B	50	2100	20	18.00	13	593	27.79	21.25	82.83	2.33	20	0	0.00	0.84
Fc	1	(untitled)	5	771-1	A	1289	2263	80	6.00	83	8	29.24	10.14	41.47	9.11	100	500	0.00	96.09
	2	(untitled)	5	771-1	A	1292	2263	80	12.28	93	-3	39.67	20.77	62.89	22.14	100	500	0.00	173.61
	3	(untitled)	5	771-1	A	1088	2263	80	18.50	74	21	23.97	4.62	19.82	7.58	100	500	0.00	36.80
Ff	1	(untitled)	5			682	1900	120	0.00	36	151	33.62	0.53	0.00	0.10	100	100	0.00	1.43

	2	(untitled)	5			50	1900	120	120.00	3	3320	33.07	0.03	0.00	0.00	100	100	0.00	0.01
G	1	(untitled)	2	769-2	F	269	2050	48	21.02	32	180	17.24	1.26	7.29	3.49	100	500	0.00	3.01
	2	(untitled)	2	769-2	F	285	2050	48	17.02	34	164	15.50	4.12	22.17	4.74	100	500	0.00	14.75
Gf	1	(untitled)	4			269	2050	120	90.00	13	586	3.17	0.13	0.00	0.01	100	100	0.00	0.14
	2	(untitled)	4			247	2050	120	90.00	12	647	3.12	0.12	0.00	0.01	100	100	0.00	0.12
xA	1	(untitled)	10			1474	2263	120	27.73	70	28	20.18	2.95	13.46	19.38	100	100	0.00	23.55
	2	(untitled)	10			1290	2263	120	46.00	61	49	19.24	1.99	10.53	25.97	100	100	0.00	14.48
xB	1	(untitled)				1496	Unrestricted	120	0.00	0	Unrestricted	6.93	0.00	0.00	0.00	100	100	0.00	0.00
xC	1	(untitled)				510	1900	120	83.34	41	117	13.62	4.95	44.63	7.11	100	100	0.00	17.27
	2	(untitled)				442	1900	120	68.50	30	198	11.41	2.72	34.40	4.75	100	100	0.00	9.62
xD	1	(untitled)				503	Unrestricted	120	19.00	0	Unrestricted	9.11	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				299	Unrestricted	120	50.00	0	Unrestricted	9.16	0.00	0.00	0.00	100	100	0.00	0.00
xE	1	(untitled)				918	Unrestricted	120	8.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				494	Unrestricted	120	29.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
xF	1	(untitled)				721	Unrestricted	120	0.00	0	Unrestricted	12.19	0.00	0.00	0.00	100	100	0.00	0.00
Cc 1	1	(untitled)	2	769-2	E	398	2050	44	12.07	51	77	16.06	9.47	27.63	2.78	100	100	0.00	19.16
E1	1	(untitled)	4	770-3	G	415	2050	28	0.00	81	11	41.45	35.45	104.88	7.36	20	0	0.00	11.61
	2	(untitled)	4	770-3	G	506	2200	28	0.00	92	-2	58.43	52.43	130.58	11.67	20	0	0.00	20.93
Gf 1	1	(untitled)	4			38	697	120	86.00	5	1563	5.89	0.15	0.01	0.00	100	100	0.00	0.02
Cc 2	2	(untitled)	2	769-2	D	428	2150	46	10.84	51	78	21.05	11.47	46.20	5.60	100	500	0.00	36.68
	3	(untitled)	2	769-2	D	528	2050	46	7.35	65	39	19.91	8.98	27.15	7.90	100	500	0.00	27.67
	4	(untitled)	2	769-2	D	290	2150	46	19.07	34	167	14.31	8.29	22.70	2.69	100	500	0.00	22.85
	5	(untitled)	2	769-2	D	598	2050	46	12.42	74	22	14.90	6.11	7.25	4.74	100	500	0.00	19.74
	6	(untitled)	2	769-2	D	348	2050	46	26.00	42	112	10.49	2.59	28.59	7.97	100	500	0.00	14.79
E2	3	(untitled)	4	770-3	H	269	2150	28	0.56	51	76	26.96	22.96	84.13	3.78	20	0	0.00	4.87
	4	(untitled)	4	770-3	H	247	2050	28	0.00	48	87	26.52	22.45	83.67	3.45	20	0	0.00	4.37
TC5	2	(untitled)	TC 771-6	TC77 7-1	A	1262	2263	101	15.00	65	39	5.41	2.65	8.32	3.50	100	100	0.00	14.51
	3	(untitled)	TC 771-6	TC77 7-1	A	1290	2263	101	29.00	66	35	5.06	2.30	8.25	3.55	100	100	0.00	13.03
	4	(untitled)	TC 771-6	TC77 7-1	C	0	1800	7	8.00	0	Unrestricted	0.00	0.00	0.00	0.00	100	100	0.00	0.00
TC9	1	(untitled)	TC 771-6	TC77 7-1	B	546	1925	90	0.00	37	146	15.94	4.94	28.29	5.16	100	100	0.00	12.57

	2	(untitled)	TC 771-6	TC77 7-1	B	338	1966	90	0.00	22	306	15.07	4.01	24.84	2.97	100	100	0.00	6.40
	3	(untitled)	TC 771-6	TC77 7-1	B	256	1947	90	0.00	17	430	14.87	3.74	24.37	2.08	100	100	0.00	4.56
T C3 5	1	(untitled)	TC 771-6	TC77 7-1	A	212	1900	101	25.00	13	592	3.96	1.06	7.50	0.53	100	100	0.00	1.09
T C3 6	1	(untitled)	TC 771-6			44	1800	120	120.00	2	3582	3.05	0.03	0.00	0.00	100	100	0.00	0.00
T C3 7	1	(untitled)	TC 771-6	TC77 7-2	J	15	1850	105	105.00	1	9705	4.08	0.89	11.68	0.06	100	100	0.00	0.11
T C3 8	1	(untitled)	TC 771-6			15	258	120	51.00	6	1449	8.43	6.90	54.40	2.42	100	100	0.00	0.69
T C3 9	2	(untitled)	TC 771-6			1262	2263	120	32.00	56	61	3.54	1.00	0.00	0.35	100	100	0.00	4.98
	3	(untitled)	TC 771-6			1290	2263	120	46.00	57	58	3.45	1.05	0.00	0.38	100	100	0.00	5.36
T C4 0	2	(untitled)	TC 771-6			1277	Unrestricted	120	13.00	0	Unrestricted	4.23	0.00	0.00	0.00	100	100	0.00	0.00
	3	(untitled)	TC 771-6			1290	Unrestricted	120	35.00	0	Unrestricted	4.02	0.00	0.00	0.00	100	100	0.00	0.00
T C4 1	1	(untitled)	TC 771-6	TC77 7-1	D	29	1850	8	7.00	21	331	59.55	55.61	95.32	2.44	100	100	0.00	7.32
T C4 2	1	(untitled)	TC 771-6	TC77 7-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
T C4 3	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			952	1300	120	29.00	73	23	19.79	3.75	0.00	0.99	100	100	0.00	14.09
48	1	(untitled)	2			1574	1965	120	0.00	80	12	10.26	3.64	0.00	1.59	100	100	0.00	22.62
49	1	(untitled)	TC 771-6			570	1900	120	0.00	30	200	3.55	0.41	0.00	0.06	100	100	0.00	0.91
	2	(untitled)	TC 771-6			570	1900	120	0.00	30	200	3.55	0.41	0.00	0.06	100	100	0.00	0.91
50	1	(untitled)	1			1859 <	1900	120	39.45	146	-38	579.05	57.32	38.81	313.78 +	100	100	0.00	426.57
51	1	(untitled)	4-2			732	1900	120	0.00	39	134	5.09	0.59	0.00	0.12	100	100	0.00	1.71

## 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 queue (Ped)	Delay weighting (%)	Cost of traffic penalties (£ per hr)	P.I.
1	1	(untitled)	3-2	770-2	E	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00

	2	(untitled)	3-2	770-2	E	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
2	1	(untitled)	3	770-1	C	0	11000	66	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3	770-1	C	0	11000	66	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
3	1	(untitled)	4-2	770-4	M	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4-2	770-4	M	0	11000	6	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	40	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	J	0	11000	40	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
10	1	(untitled)	2	769-2	K	0	11000	52	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	K	0	11000	52	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
11	1	(untitled)		769-2	H	0	11000	44	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		769-2	H	0	11000	44	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
12	1	(untitled)	2	769-2	I	0	11000	42	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	I	0	11000	42	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	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	G	0	11000	7	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)
<b>Normal traffic</b>	6656.53	762.74	8.73	584.16	6570.77	823.23	327.94	7721.94
<b>Bus</b>								
<b>Tram</b>								
<b>Pedestrians</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	6656.53	762.74	8.73	584.16	6570.77	823.23	327.94	7721.94

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

# TRANSYT 16

Version: 16.0.1.8473  
© Copyright TRL Limited, 2019

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

**The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution**

**Filename:** M62 JN 28 CRF Scheme\_Mar 20\_PF\_Sept 20\_RevC\_mitigation  
DS\_optA+D\_2032\_03.t16  
**Path:** P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\Transyt\Option A+D  
**Report generation date:** 24/01/2021 16:02:00

- » Network Diagrams
- « A16 - PM Base 2032 : D16 - PM 2032, :
- » Summary
- » Network Options
- » Traffic Nodes
- » Arms and Traffic Streams
- » Pedestrian Crossings
- » Local OD Matrix - Local Matrix: 1
- » Signal Timings
- » Results - Link
- » Results - Traffic Stream
- » Data Entry - Stage Start and End
- » Data Entry - Phase
- » Data Entry - Traffic Stream
- » Data entry - Link
- » Results - Pedestrian
- » Collections
- » Point to Point Journey Time
- » Final Prediction Table

## Summary of network performance

	Set ID	Cycle time (s)	PI (£ per hr)	Total delay (PCU-hr/hr)	Highest DOS	Number oversaturated
	PM Base 2032 - PM 2032					
Network	A16 D16	60	172501.64	706.59	123% (TS 51/1)	18 (12%)

*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-Ambler	Display End-Of-Green Ambler	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

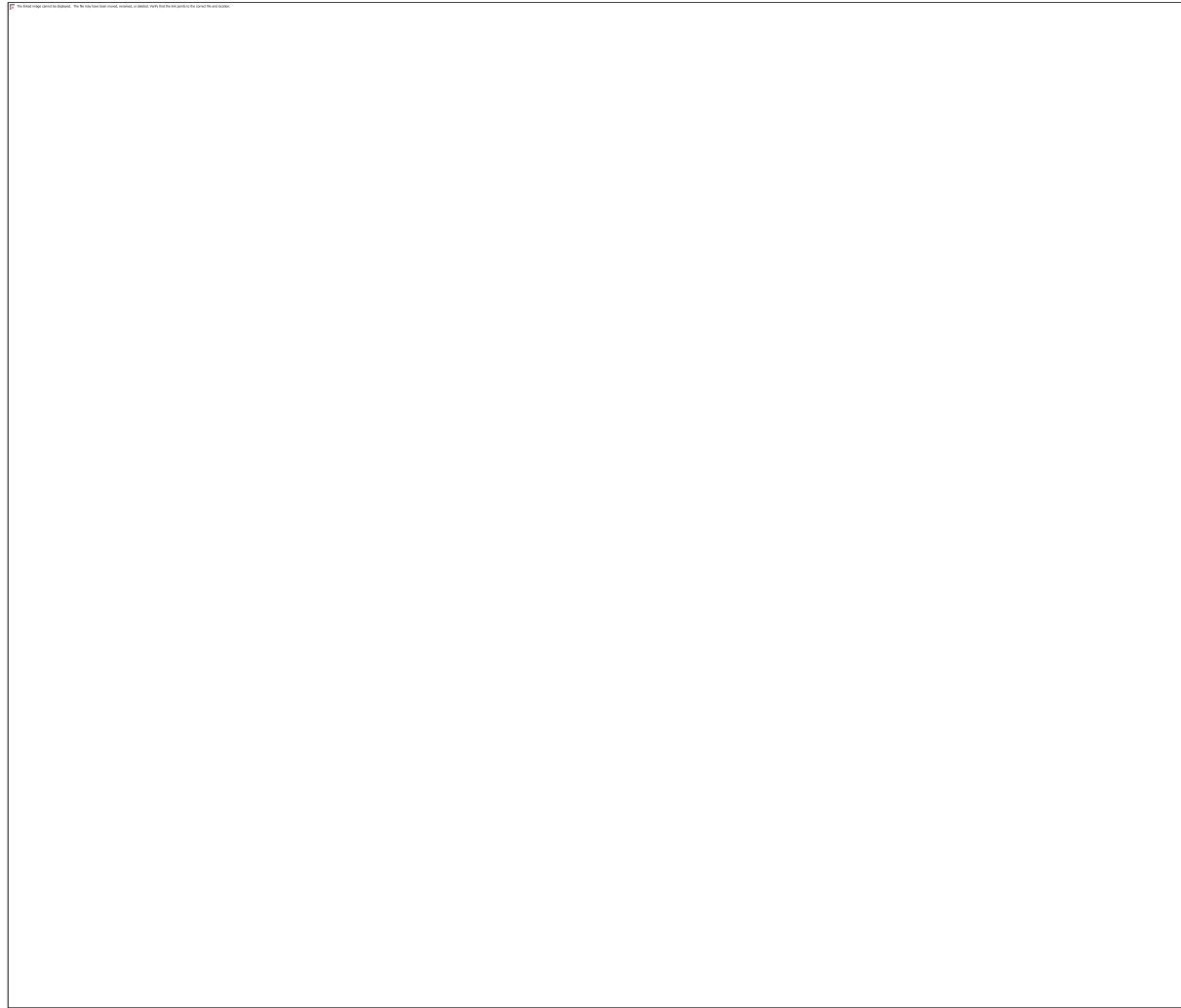
## Sorting

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 D16 - PM 2032,

## 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: Auto Calculate option is switched off - OD flows will not be allocated automatically to the network.
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)	Modeling 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 16:00:58	24/01/2021 16:01:10	12.63	16:30	60	172501.64	706.59	122.50	51/1	18	12	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			✓	D16		✓	

## Demand Set Details

Scenario name	Time Period name	Description	Composite	Demand sets	Start time (HH:mm)	Locked	Run automatically
PM 2032					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 <sup>-2</sup> )	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

## Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms <sup>-2</sup> )	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		✓	769-1, 769-2, 770-1, 770-2, 770-3, 770-4, 771-1, 771-2, 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-calculated 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	✓	74.35	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.69	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.40	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.11	✓	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)		✓	62.77	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	62.62	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.46	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.38	✓	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	✓	122.73	✓	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
	4	(untitled)	Leeds/M62/Wake	✓	55.42	✓	Directly entered	2250		2250	✓		Normal
Dc	1	(untitled)	Brad	✓	50.91	✓	Directly entered	2100		2100	✓		Normal
	2	(untitled)	Brad/M62W	✓	48.96	✓	Directly entered	2100		2100	✓		Normal
	3	(untitled)	Leeds	✓	47.02	✓	Directly entered	2100		2100	✓		Normal
	4	(untitled)	Leeds/M62E	✓	45.07	✓	Directly entered	2100		2100	✓		Normal
Dcf	1	(untitled)		✓	65.43	✓	Directly entered	2050		2050			Normal
	2	(untitled)		✓	65.28	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	65.54	✓	Directly entered	2100		2100			Normal
	4	(untitled)		✓	67.69	✓	Directly entered	2100		2100			Normal
	5	(untitled)		✓	66.13	✓	Directly entered	2100		2100			Normal
	6	(untitled)		✓	66.17	✓	Directly entered	2050		2050			Normal
Df	1	(untitled)			200.00	✓	Sum of lanes	1900					Normal
	2	(untitled)			200.00	✓	Directly entered	2250					Normal
Dxp	1	(untitled)		✓	45.75	✓	Directly entered	2050			✓		Normal
	2	(untitled)		✓	48.11	✓	Directly entered	2050			✓		Normal
Ec	1	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal
	4	(untitled)	M62E	✓	45.11	✓	Directly entered	2250		2250	✓		Normal
Ecf	1	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	46.95	✓	Directly entered	2263		2263			Normal
	4	(untitled)		✓	47.51	✓	Directly entered	2300		2300			Normal
	5	(untitled)		✓	48.55	✓	Directly entered	2300		2300			Normal
Ef	1	(untitled)		✓	127.54	✓	Directly entered	1900					Normal

	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal
Exp	1	(untitled)		✓	51.83	✓	Directly entered	2050		2100	✓		Normal
	2	(untitled)		✓	53.71	✓	Directly entered	2050		2100	✓		Normal
F	1	(untitled)	Leeds	✓	85.13	✓	Directly entered	2100		2100	✓		Normal
	2	(untitled)	Wake	✓	85.72	✓	Directly entered	2100		2100	✓		Normal
	3	(untitled)	Dews/Brad	✓	87.25	✓	Directly entered	2100		2100	✓		Normal
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)		✓	77.45								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)		✓	121.44								Normal
	2	(untitled)		✓	122.12								Normal
xE	1	(untitled)		✓	173.89								Normal
	2	(untitled)		✓	173.83								Normal
xF	1	(untitled)		✓	162.53								Normal
Cc1	1	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal
E1	1	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal
Gf1	1	(untitled)		✓	47.81						✓		Normal
Cc2	2	(untitled)	Dews	✓	91.52	✓	Directly entered	2150		2100	✓		Normal
	3	(untitled)	Brad/M62W	✓	91.11	✓	Directly entered	2050		2050	✓		Normal
	4	(untitled)	Dews/Brad	✓	90.39	✓	Directly entered	2150		2100	✓		Normal









	2	1	(untitled)		✓	N/A	Average	0	3.70	✓	0	9999.00		1966
	3	1	(untitled)		✓	N/A	Average	0	3.50	✓	0	9999.00		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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Ac	1	CTM	500	100	100		0.00	✓	16.50	9999.00				
	2	CTM	500	100	100		0.00	✓	16.50	9999.00				
	3	CTM	500	100	100		0.00	✓	16.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							

	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Bc	1	CTM	500	100	100		0.00	✓	22.50	9999.00				
	2	CTM	500	100	100		0.00	✓	22.50	9999.00				
	3	CTM	500	100	100		0.00	✓	22.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
Cf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
D	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Dc	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
Dcf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
	6	CTM	100	100	100		0.00							
Df	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
Dx P	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
Ec	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
Ecf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
Ef	1	NetworkDe fault	100	100	100		0.00							

	2	NetworkDe fault	100	100	100		0.00								
Exp	1	CTM	100	100	100		0.00								
	2	CTM	100	100	100		0.00								
F	1	CTM	0	20	100		0.00								
	2	CTM	0	20	100		0.00								
	3	CTM	0	20	100		0.00								
Fc	1	CTM	500	100	100		0.00	✓	32.0 0	9999. 00					
	2	CTM	500	100	100		0.00	✓	32.0 0	9999. 00					
	3	CTM	500	100	100		0.00	✓	32.0 0	9999. 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	500	100	100		0.00	✓	26.0 0	9999. 00					
	2	CTM	500	100	100		0.00	✓	26.0 0	9999. 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	NetworkDe fault	100	100	100		0.00								
xC	1	CTM	100	100	100		0.00								
	2	CTM	100	100	100		0.00								
xD	1	NetworkDe fault	100	100	100		0.00								
	2	NetworkDe fault	100	100	100		0.00								
xE	1	NetworkDe fault	100	100	100		0.00								
	2	NetworkDe fault	100	100	100		0.00								
xF	1	NetworkDe fault	100	100	100		0.00								
Cc1	1	CTM	100	100	100		0.00								
E1	1	CTM	0	20	100		0.00								
	2	CTM	0	20	100		0.00								
Gf1	1	NetworkDe fault	100	100	100		0.00								
Cc2	2	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
	3	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
	4	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
	5	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
	6	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
E2	3	CTM	0	20	100		0.00								
	4	CTM	0	20	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	NetworkDe fault	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	NetworkDe fault	100	100	100		0.00										
TC 43	1	NetworkDe fault	100	100	100		0.00										
47	1	CTM	100	100	100		0.00										
48	1	NetworkDe fault	100	100	100		0.00										
49	1	NetworkDe fault	100	100	100		0.00										
	2	NetworkDe fault	100	100	100		0.00										
50	1	NetworkDe fault	100	100	100		0.00										
51	1	NetworkDe fault	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	718	718
	2	713	713
	3	745	745
	4	477	477
Ac	1	619	619
	2	635	635
	3	333	333
Acf	1	1253	1253
	2	333	333
Af	1	1431	1431
	2	745	745
	3	477	477
B	1	380	380

	2	334	334
	3	322	322
	4	326	326
Bc	1	957	957
	2	1009	1009
	3	546	546
Bcf	1	1337	1337
	2	1347	1347
	3	1009	1009
	4	546	546
Bf	1	714	714
	2	649	649
C	1	95	95
	2	692	692
	3	280	280
Cf	1	621	621
	2	446	446
D	1	290	290
	2	178	178
	3	265	265
	4	283	283
Dc	1	748	748
	2	915	915
	3	388	388
	4	410	410
Dcf	1	700	700
	2	1054	1054
	3	748	748
	4	915	915
	5	388	388
	6	410	410
Df	1	468	468
	2	548	548
Dxp	1	700	700
	2	1054	1054
Ec	1	572	572
	2	566	566
	3	602	602
	4	275	275
Ecf	1	853	853
	2	1100	1100
	3	566	566
	4	602	602
	5	356	356
Ef	1	876	876
	2	617	617
Exp	1	853	853
	2	528	528
F	1	188	188
	2	343	343
	3	332	332
Fc	1	712	712
	2	762	762
	3	731	731
Ff	1	531	531

	2	332	332
G	1	344	344
	2	354	354
Gf	1	321	321
	2	296	296
xA	1	723	723
	2	759	759
xB	1	1727	1727
xC	1	730	730
	2	695	695
xD	1	700	700
	2	1054	1054
xE	1	853	853
	2	528	528
xF	1	686	686
Cc1	1	727	727
E1	1	420	420
	2	456	456
Gf1	1	81	81
Cc2	2	609	609
	3	482	482
	4	1050	1050
	5	630	630
	6	377	377
E2	3	321	321
	4	296	296
TC5	2	683	683
	3	759	759
	4	0	0
TC9	1	1301	1301
	2	745	745
	3	414	414
TC35	1	40	40
TC36	1	236	236
TC37	1	43	43
TC38	1	43	43
TC39	2	683	683
	3	759	759
TC40	2	726	726
	3	759	759
TC41	1	193	193
TC42	1	0	0
TC43	1	0	0
47	1	1425	1425
48	1	1067	1067
49	1	1301	1301
	2	1159	1159
50	1	1363	1363
51	1	863	863

## Signals

Arm	Traffic Stream	Controller stream	Phase	Second phase enabled
A	1	771-2	E	
	2	771-2	E	
	3	771-2	E	

	4	771-2	E	
Ac	1	771-2	D	
	2	771-2	D	
	3	771-2	D	
B	1	769-1	B	
	2	769-1	B	
	3	769-1	B	
	4	769-1	B	
Bc	1	769-1	A	
	2	769-1	A	
	3	769-1	A	
C	1	769-2	G	
	2	769-2	G	
	3	769-2	G	
D	1	770-1	B	
	2	770-1	B	
	3	770-1	B	
	4	770-1	B	
Dc	1	770-1	A	
	2	770-1	A	
	3	770-1	A	
	4	770-1	A	
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	
	6	769-2	D	
E2	3	770-3	H	
	4	770-3	H	
TC5	2	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
TC9	1	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
TC35	1	TC777-1	A	

TC37	1	TC777-2	J	
TC41	1	TC777-1	D	
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	5.58	48.00	✓	Straight	Straight Movement
	2	1	Af/1	A/2	5.75	48.00	✓	Straight	Straight Movement
	3	1	Af/2	A/3	5.88	48.00	✓	Straight	Straight Movement
	4	1	Af/3	A/4	6.01	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	4.71	48.00	✓	Nearside	68.09
	2	1	A/2	Bcf/2	6.63	34.00	✓	Nearside	71.40
	3	1	A/3	Bcf/3	6.61	34.00	✓	Nearside	74.72
	4	1	A/4	Bcf/4	6.60	34.00	✓	Nearside	78.03
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	14.73	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
	4	1	Df/2	D/4	4.16	48.00	✓	Straight	Straight Movement
Dc	1	1	Dcf/3	Dc/1	6.11	30.00	✓	Offside	56.19
	2	1	Dcf/4	Dc/2	5.88	30.00	✓	Offside	52.87
	3	1	Dcf/5	Dc/3	5.64	30.00	✓	Offside	49.56
	4	1	Dcf/6	Dc/4	5.41	30.00	✓	Offside	46.25
Dcf	1	1	Cc2/2	Dcf/1	4.91	48.00	✓	Straight	Straight Movement
	2	1	Cc2/4	Dcf/2	4.90	48.00	✓	Straight	Straight Movement
	3	1	C/2	Dcf/3	4.92	48.00	✓	Nearside	58.12
	4	1	C/2	Dcf/4	5.08	48.00	✓	Nearside	58.12
	5	1	C/3	Dcf/5	4.96	48.00	✓	Nearside	61.43
	6	1	C/3	Dcf/6	7.94	30.00	✓	Nearside	61.43
Dxp	1	1	Dcf/1	Dxp/1	3.43	48.00	✓	Nearside	60.22
	2	1	Dcf/2	Dxp/2	3.61	48.00	✓	Nearside	63.54
Ec	1	1	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	1	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	1	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	1	Ecf/5	Ec/4	5.41	30.00	✓	Offside	66.48
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	3.56	48.00	✓	Offside	66.17
	5	1	Dc/4	Ecf/5	3.64	48.00	✓	Offside	62.86
Exp	1	1	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	1	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	1	1	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	1	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	1	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	1	1	Ec/2	Fc/1	18.84	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

<b>G</b>	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
<b>Gf</b>	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
<b>xA</b>	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
<b>xB</b>	1	1	Bcf/1	xB/1	5.81	48.00	✓	Nearside	59.55
<b>xC</b>	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
<b>xD</b>	1	1	Dxp/1	xD/1	9.11	48.00	✓	Nearside	44.59
	2	1	Dxp/2	xD/2	9.16	48.00	✓	Nearside	47.90
<b>xE</b>	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
<b>xF</b>	1	1	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
<b>Cc1</b>	1	1	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
<b>E1</b>	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
<b>Gf1</b>	1	1	Ecf/5	Gf1/1	5.74	30.00	✓	Offside	21.77
<b>Cc2</b>	2	1	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	1	B/3	Cc2/3	8.20	40.00	✓	Straight	Straight Movement
	4	1	B/2	Cc2/4	8.14	40.00	✓	Straight	Straight Movement
	5	1	Bc/3	Cc2/5	6.03	54.00	✓	Offside	96.53
	6	1	Bc/3	Cc2/6	5.87	54.00	✓	Offside	93.22
<b>E2</b>	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
<b>TC5</b>	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
<b>TC9</b>	1	1	49/1	TC9/1	11.00	30.00	✓	Straight	Straight Movement
	2	1	49/2	TC9/2	11.07	30.00	✓	Straight	Straight Movement
	3	1	49/2	TC9/3	11.12	30.00	✓	Straight	Straight Movement
<b>TC35</b>	1	1	xA/1	TC35/1	2.90	30.00	✓	Straight	Straight Movement
<b>TC37</b>	1	1	TC36/1	TC37/1	3.19	50.00	✓	Nearside	46.04
<b>TC38</b>	1	1	TC37/1	TC38/1	1.53	50.00	✓	Straight	Straight Movement
<b>TC39</b>	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
<b>TC40</b>	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	3.95	57.00	✓	Offside	89.74
	3	2	Ac/3	Bcf/3	3.95	57.00	✓	Offside	86.42
	4	2	Ac/3	Bcf/4	3.94	57.00	✓	Offside	86.42
C	2	2	Cf/1	C/2	14.73	30.00	✓	Offside	56.58
Dcf	1	2	C/1	Dcf/1	4.91	48.00	✓	Nearside	54.80
	2	2	C/1	Dcf/2	4.90	48.00	✓	Nearside	54.80
	3	2	Cc2/3	Dcf/3	7.87	30.00	✓	Straight	Straight Movement
	4	2	Cc2/3	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
	5	2	Cc2/5	Dcf/5	7.94	30.00	✓	Offside	99.16
	6	2	Cc2/6	Dcf/6	7.94	30.00	✓	Offside	95.85
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	5.63	30.00	✓	Nearside	46.68
	4	2	D/3	Ecf/4	5.70	30.00	✓	Nearside	49.99
	5	2	D/4	Ecf/5	5.83	30.00	✓	Nearside	53.30
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
xB	1	2	Bcf/2	xB/1	9.29	30.00	✓	Nearside	60.96
xC	1	2	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	2	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
xF	1	2	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
Cc1	1	2	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	2	2	Bc/1	Cc2/2	10.98	30.00	✓	Straight	Straight Movement
	3	2	Bc/2	Cc2/3	10.93	30.00	✓	Offside	99.84
	4	2	Bc/2	Cc2/4	6.03	54.00	✓	Straight	Straight Movement
	5	2	B/4	Cc2/5	8.14	40.00	✓	Straight	Straight Movement

	6	2	B/4	Cc2/6	7.93	40.00	✓	Straight	Straight Movement
TC9	2	2	49/1	TC9/2	11.07	30.00	✓	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
Dcf	4	3	Cc2/5	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
xA	2	3	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	3	3	B/2	Cc2/3	10.93	30.00	✓	Straight	Straight Movement
	5	3	B/3	Cc2/5	10.86	30.00	✓	Straight	Straight Movement

### Give Way Data

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

### Give Way Data - All Movements - Conflicts

Traffic Stream	Description	Controlling type	Controlling traffic stream	Percentage opposing (%)	Slope coefficient	Upstream signals visible
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	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)	✓	User Equilibrium			✓								

Note: Auto Calculate disabled on this Local Matrix - Paths and Flow Allocation might not be up to date.

### Normal Input Flows (PCU/hr)

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	3	55	365	13	469	8	450	0
	B28	19	0	95	180	512	6	255	0
	C28	298	30	0	185	105	7	391	0
	D28	6	388	264	0	17	8	180	0
	E28	496	617	94	114	1	5	166	0

	<b>F28</b>	69	16	45	46	17	0	43	0
	<b>G28</b>	836	319	891	148	260	6	0	0
	<b>H28</b>	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	<b>A28</b>	(untitled)	50/1	xB/1	#FF0000
	<b>B28</b>	(untitled)	48/1	47/1	#00FF40
	<b>C28</b>	(untitled)	Df/2, Df/1	xD/1, xD/2	#804000
	<b>D28</b>	(untitled)	51/1	xF/1	#FF00FF
	<b>E28</b>	(untitled)	Ef/2, Ef/1	xE/1, xE/2	#FF8000
	<b>F28</b>	(untitled)	TC36/1	TC35/1	#FFA500
	<b>G28</b>	(untitled)	49/2, 49/1	TC40/2, TC40/3	#0000FF
	<b>H28</b>	(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	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	407
	49	I1	C28	D28	Df/1, D/1, Ecf/2, Ec/1, xF/1	Normal	185
	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	140
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	5
	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Normal	296
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	325
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	0
	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	55
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	26
	112		F28	G28	TC36/1, TC37/1, TC38/1, TC40/2	Normal	43
	113		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	4
	125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	745	
137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	0	

138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	0
140		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	237
141		B28	F28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	6
142		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	5
143		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
144		B28	G28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	14
145		B28	H28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
146		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
147		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
148		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
149		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	16
150		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	321
151		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	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	16
154		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	4
155		G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
156		G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
157		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
158		A28	G28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	323
159		A28	H28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
160		B28	D28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	178
161		B28	E28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	48
162		B28	D28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	2
163		B28	E28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
164		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
165		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
166		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	91
167		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
168		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	718
169		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	60
170		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	259
171		G28	H28	49/1, TC9/1, TC43/1	Normal	0

172		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
173		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	46
174		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
175		A28	D28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
176		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
177		H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
178		B28	E28	48/1, Cf/1, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	301
179		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	163
180		A28	H28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
181		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	45
182		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
183		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
184		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	45
185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	0
186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	40
187		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
188		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
189		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
190		G28	D28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
191		D28	F28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
192		D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
193		D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
194		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	179
196		D28	F28	51/1, Ff/1, F/1, xA/1, TC35/1	Normal	8
197		D28	G28	51/1, Ff/1, F/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	1
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	310
200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	27
201		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
202		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
203		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
205		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	185

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
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	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	Normal	264
249	H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/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	0
283	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
284	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
285	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
286	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
307	G28	C28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
317	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	220
318	C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
319	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
320	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
322	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	1
323	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	7
324	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	171
325	C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
330	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	137
331	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
332	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
334	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
342	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	3
343	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	27
364	B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
379	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
380	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
381	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
382	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
383	G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
384	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
385	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0

386	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
387	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	3
388	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
389	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
390	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
391	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
392	D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
393	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	19
394	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	31
395	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
396	H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
397	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
398	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
399	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
400	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
401	G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	6
402	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
403	G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
404	A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
405	A28	F28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
406	A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
407	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
408	H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
409	H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
410	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
411	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
412	F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
413	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
414	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
415	A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
417	A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	3
418	G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	146
423	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

424		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
425		E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	45
428		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	49
431		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
439		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
440		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
441		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
442		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
443		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
444		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
445		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
446		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
447		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
448		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
449		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
450		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
451		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	148
452		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	260
453		A28	D28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
454		A28	E28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
455		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
456		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	1
457		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
458		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	17
459		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
460		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	17
461		A28	E28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
462		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	127
463		A28	F28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	8
464		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
465		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	281
466		A28	D28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	13
467		G28	A28	49/1, TC9/1, Af/1, A/2, Bcf/2, xB/1	Normal	118

468		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
469		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
470		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
471		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	3
472		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
473		C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	116
474		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	85
475		E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
476		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
477		H28	A28	TC42/1, Af/1, A/2, Bcf/2, xB/1	Normal	0
478		F28	A28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, xB/1	Normal	69

## 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 (%)	Journey Time (s)
16:30-17:30	A	1	(untitled)	E	718	2050	26	923	78	16	19.30	6.98	53.96	24.87
		2	(untitled)	E	713	2050	26	923	77	16	20.29	8.79	65.90	26.04
		3	(untitled)	E	745	2050	26	923	81	11	17.87	11.47	84.10	23.75
		4	(untitled)	E	477	2050	26	923	52	74	11.36	5.27	37.80	17.37
	Ac	1	(untitled)	D	614	2263	24	943	65	38	12.48	5.42	32.52	19.67
		2	(untitled)	D	573	2263	24	904	63	42	7.90	7.60	47.34	17.40
		3	(untitled)	D	281	2263	24	943	30	202	0.84	0.07	0.44	7.44
Acf	1	(untitled)			1187	2263	60	2263	52	72	0.88	0.29	2.39	6.10

	2	(untitled)		281	2263	60	2263	12	625	0.11	0.01	0.07	7.36
Af	1	(untitled)		1431	2050	60	2050	70	29	2.02	0.80	8.62	8.44
	2	(untitled)		745	2050	60	2039	37	146	0.52	1.55	16.80	6.90
	3	(untitled)		477	2050	60	2050	23	287	0.27	0.04	0.38	6.63
B	1	(untitled)	B	323	2050	11	410	79	14	45.57	6.78	41.20	52.67
	2	(untitled)	B	284	2150	11	284	100	-10	278.51	24.19	143.11	285.80
	3	(untitled)	B	275	2100	11	375	73	23	30.23	4.31	24.84	37.71
	4	(untitled)	B	277	2050	11	410	68	33	29.17	4.31	24.17	41.46
Bc	1	(untitled)	A	895	2050	37	1298	69	31	9.91	10.67	46.18	21.86
	2	(untitled)	A	968	2050	37	1298	75	21	4.70	6.90	30.18	16.53
	3	(untitled)	A	535	2050	37	1298	41	119	1.42	9.81	43.35	13.13
Bcf	1	(untitled)		1332	2263	60	2263	59	53	1.14	0.42	3.85	5.50
	2	(untitled)		1286	2263	60	2263	57	58	1.04	0.37	3.43	6.48
	3	(untitled)		968	2263	60	2263	43	110	0.59	0.16	1.47	6.59
	4	(untitled)		535	2263	60	2263	24	281	0.25	0.04	0.34	6.56
Bf	1	(untitled)		607	1800	60	648	94	-4	174.81	44.41	112.10	202.15
	2	(untitled)		552	1800	60	1800	31	193	0.44	0.07	0.17	27.86
C	1	(untitled)	G	82	2100	16	595	14	551	16.92	1.46	6.93	31.46
	2	(untitled)	G	599	2200	16	623	96	-6	130.02	27.47	128.68	144.75
	3	(untitled)	G	243	2050	16	581	42	115	27.03	4.21	19.45	41.95
Cf	1	(untitled)		539	1965	60	539	100	-10	192.06	35.76	142.21	209.42
	2	(untitled)		386	1965	60	1080	36	152	8.10	4.87	19.18	25.60
D	1	(untitled)	B	290	2050	10	376	77	17	38.77	5.35	55.97	42.89
	2	(untitled)	B	178	1850	10	339	52	71	27.95	2.82	29.45	32.08
	3	(untitled)	B	265	2250	10	413	64	40	30.41	4.32	47.00	34.37
	4	(untitled)	B	283	2250	10	413	69	31	32.22	4.74	49.20	36.38
Dc	1	(untitled)	A	643	2100	40	1435	45	101	3.50	1.76	19.92	9.61
	2	(untitled)	A	852	2100	40	1435	59	52	11.06	7.68	90.18	16.94
	3	(untitled)	A	336	2100	40	1435	23	285	0.56	0.12	1.44	6.21
	4	(untitled)	A	348	2100	40	1435	24	271	2.91	1.49	18.98	8.32
Dcf	1	(untitled)		640	2050	60	2050	31	188	0.40	0.07	0.62	5.31
	2	(untitled)		1006	2100	60	2100	48	88	0.79	0.22	1.94	5.68

		3	(untitled)		643	2100	60	2100	31	194	0.38	0.07	0.59	6.40
		4	(untitled)		852	2100	60	1608	53	70	1.75	1.96	16.68	9.17
		5	(untitled)		336	2100	60	2100	16	463	0.16	0.02	0.13	6.19
		6	(untitled)		348	2050	60	2050	17	430	0.18	0.02	0.15	8.12
	Df	1	(untitled)		468	1900	60	1900	25	265	0.31	0.04	0.12	24.31
		2	(untitled)		548	2250	60	2250	24	270	0.26	0.04	0.11	24.26
	Dxp	1	(untitled)	D	701	2050	43	1503	47	93	2.32	1.66	20.89	5.75
		2	(untitled)	D	1003	2050	43	1503	67	35	2.48	2.40	28.65	6.09
	Ec	1	(untitled)	F	546	2150	36	1326	41	119	8.93	4.42	50.73	12.68
		2	(untitled)	F	514	2263	36	1396	37	145	9.47	4.93	58.48	13.10
		3	(untitled)	F	552	2263	36	1396	40	128	1.17	0.33	4.07	4.68
		4	(untitled)	F	272	2250	36	1388	20	359	1.03	0.30	3.80	6.45
	Ecf	1	(untitled)		748	2100	60	2100	36	153	0.47	0.10	1.23	3.92
		2	(untitled)		1037	2100	60	2100	49	82	0.84	0.24	2.99	4.31
		3	(untitled)		514	2263	60	2263	23	297	0.23	0.03	0.41	4.49
		4	(untitled)		552	2300	60	2300	24	275	0.25	0.04	0.46	4.84
		5	(untitled)		344	2300	60	2300	15	501	0.14	0.01	0.16	5.58
	Ef	1	(untitled)		876	1900	60	1900	46	95	0.81	0.20	0.89	16.11
		2	(untitled)		617	1900	60	1900	32	177	0.46	0.08	0.35	15.76
	Exp	1	(untitled)	L	748	2050	40	1401	53	68	4.30	3.64	40.39	8.19
		2	(untitled)	L	491	2050	40	1401	35	157	1.00	2.41	25.84	5.03
	F	1	(untitled)	B	153	2100	7	280	55	64	42.06	2.89	19.49	48.44
		2	(untitled)	B	280	2100	7	280	100	-10	256.54	21.81	146.28	262.96
		3	(untitled)	B	280	2100	7	280	100	-10	256.54	21.81	143.72	263.08
	Fc	1	(untitled)	A	659	2263	43	1533	43	109	1.23	1.87	5.86	20.46
		2	(untitled)	A	712	2263	43	1547	46	96	2.41	3.76	11.91	21.47
		3	(untitled)	A	729	2263	43	1508	48	86	3.35	6.98	22.27	22.98
	Ff	1	(untitled)		433	1900	60	433	100	-10	389.40	57.75	120.44	422.48
		2	(untitled)		270	1900	60	280	97	-7	246.99	21.04	43.92	280.03
	G	1	(untitled)	F	340	2050	16	321	106	-15	270.63	29.92	110.75	286.61
		2	(untitled)	F	349	2050	16	322	108	-17	379.48	42.34	160.36	390.86
	Gf	1	(untitled)		321	2050	60	2050	16	475	0.16	2.33	33.14	3.20

	2	(untitled)		296	2050	60	1923	15	485	0.84	4.65	66.79	3.84
xA	1	(untitled)		636	2263	60	2023	31	186	0.89	2.39	5.99	18.12
	2	(untitled)		709	2263	60	2263	31	187	0.36	0.07	0.18	17.61
xB	1	(untitled)		1723	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	6.60
xC	1	(untitled)		650	1900	60	650	100	-10	131.45	30.00	149.22	140.12
	2	(untitled)		650	1900	60	650	100	-10	127.81	30.00	148.72	136.51
xD	1	(untitled)		701	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.11
	2	(untitled)		1003	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.16
xE	1	(untitled)		748	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		491	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
xF	1	(untitled)		660	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
Cc1	1	(untitled)	E	657	2050	29	876	75	20	12.64	6.26	37.57	19.19
E1	1	(untitled)	G	419	2050	13	478	88	3	45.91	8.64	62.14	51.91
	2	(untitled)	G	457	2200	13	513	89	1	47.18	9.56	68.74	53.18
Gf1	1	(untitled)		72	672	60	672	11	736	0.33	0.01	0.08	6.07
Cc2	2	(untitled)	D	561	2150	30	1096	51	76	5.87	5.83	36.61	15.50
	3	(untitled)	D	410	2050	30	1059	39	132	5.08	8.42	53.12	14.95
	4	(untitled)	D	1002	2150	30	1104	91	-1	21.10	9.54	60.66	27.20
	5	(untitled)	D	607	2050	30	1018	60	51	5.88	9.88	62.79	12.82
	6	(untitled)	D	320	2050	30	1059	30	198	8.52	8.16	53.24	16.17
E2	3	(untitled)	H	321	2150	13	488	66	37	27.88	5.26	56.77	31.88
	4	(untitled)	H	296	2050	13	478	62	45	26.65	4.44	47.02	30.73
TC5	2	(untitled)	A	599	2263	38	1509	40	127	4.96	3.03	75.63	7.73
	3	(untitled)	A	709	2263	38	1509	47	92	1.36	1.66	41.39	4.13
	4	(untitled)	C	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
TC9	1	(untitled)	B	1301	1925	39	1348	97	-7	34.01	24.74	155.14	45.01
	2	(untitled)	B	745	1966	39	1376	54	66	5.89	5.37	33.51	16.95
	3	(untitled)	B	414	1947	39	1363	30	196	4.01	2.37	14.68	15.13
TC35	1	(untitled)	A	37	1900	38	1267	3	3020	3.24	0.21	5.02	6.14
TC36	1	(untitled)		236	1800	60	1800	13	586	0.15	0.01	0.23	3.18
TC37	1	(untitled)	J	43	1850	43	1357	3	2740	2.31	0.19	2.49	5.50
TC38	1	(untitled)		43	440	60	440	10	821	0.86	2.42	65.29	2.40

	TC39	2	(untitled)		599	2263	60	2263	26	240	0.29	0.05	0.78	2.82
		3	(untitled)		709	2263	60	2263	31	187	0.36	0.07	1.23	2.76
	TC40	2	(untitled)		642	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		709	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC41	1	(untitled)	D	193	1850	11	370	52	73	26.71	2.98	31.32	30.64
	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)		1068	1965	60	925	115	-22	263.84	89.41	932.67	270.46
	49	1	(untitled)		1301	1900	60	1777	73	23	2.96	5.33	116.76	6.11
		2	(untitled)		1159	1900	60	1900	61	48	1.48	0.48	10.42	4.63
	50	1	(untitled)		1363	1900	60	1160	118	-23	283.93	123.49	1474.83	289.70
	51	1	(untitled)		862	1900	60	704	123	-27	349.39	92.83	1424.66	353.89

## 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	30	3	33	1	7
	2	✓	2	B	14	25	11	1	7
769-2	1	✓	4	D,E,H,I	29	50	21	1	1
	2	✓	5	F,G,J,K	4	14	10	1	7
770-1	1	✓	1	A,C	6	44	38	1	5
	2	✓	2	B	51	1	10	1	7
770-2	1	✓	4	D	23	6	43	1	7
	2	✓	5	E	11	16	5	1	5
770-3	1	✓	7	F,I,J	42	13	31	1	2
	2	✓	9	G,H	24	30	6	1	1
770-4	1	✓	11	L	15	55	40	1	7
	2	✓	12	M	0	8	8	1	6
771-1	1	✓	1	A,C	43	20	37	1	9
	2	✓	3	B	31	38	7	1	7
771-2	1	✓	5	D	44	8	24	1	7
	2	✓	6	E	13	39	26	1	7
TC777-1	1	✓	1	A,B,F	6	44	38	1	7
	2	✓	5	D,H,I	51	0	9	1	6
TC777-2	1	✓	1	J	44	27	43	1	7
	2	✓	2	K	32	39	7	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
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	✓	74.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	2	✓	76.69	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0

	3	✓	78.40	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	4	✓	80.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Ac	1	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	20	0
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Bc	1	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
Bcf	1	✓	62.77	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	62.62	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.46	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	62.38	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	20	0
	2	✓	122.73	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	20	0
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	20	0
	3	✓	52.87	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
	4	✓	55.42	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0

Dc	1	✓	50.91	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	2	✓	48.96	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	3	✓	47.02	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	4	✓	45.07	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
Dcf	1	✓	65.43	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.28	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	65.54	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	67.69	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.13	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	6	✓	66.17	CTM	0.00	Normal	✓			Directly entered	2050	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	✓	45.75	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.11	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	1	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	4	✓	45.11	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	500
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	✓	46.95	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	47.51	CTM	0.00	Normal	✓			Directly entered	2300	100	100
	5	✓	48.55	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	1	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	1	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	1	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
Fc	1	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500

	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	500
	2	✓	151.80	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
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	✓	77.45	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	✓	121.44	NetworkDefault	0.00	Normal						100	100
	2	✓	122.12	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	20	0
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
Gf1	1	✓	47.81	NetworkDefault	0.00	Normal			✓			100	100
Cc2	2	✓	91.52	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	3	✓	91.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	4	✓	90.39	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	5	✓	90.48	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	6	✓	88.08	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
E2	3	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	✓	92.21	CTM	0.00	Normal	✓	✓		Sum of lanes	1966	100	100
	3	✓	92.69	CTM	0.00	Normal	✓	✓		Sum of lanes	1947	100	100
TC3	5	1	✓	24.16	CTM	0.00	Normal	✓	✓	Directly entered	1900	100	100
TC3	6	1	✓	25.22	NetworkDefault	0.00	Normal	✓		Sum of lanes	1800	100	100
TC3	7	1	✓	44.32	CTM	0.00	Normal	✓	✓	Directly entered	1850	100	100
TC3	8	1	✓	21.32	CTM	0.00	Normal	✓		Directly entered	1850	100	100
TC3	9	2	✓	35.24	CTM	0.00	Normal	✓		Directly entered	2263	100	100
	3	✓	33.28	CTM	0.00	Normal	✓			Directly entered	2263	100	100
TC4	0	2	✓	58.74	PDM	0.00	Normal					100	100
	3	✓	55.82	PDM	0.00	Normal						100	100
TC4	1	1	✓	54.63	CTM	0.00	Normal	✓	✓	Directly entered	1850	100	100
TC4	2	1	✓	23.35	NetworkDefault	0.00	Normal	✓	✓	Sum of lanes	1771	100	100
TC4	3	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	5	0.00	0.00
		2	0	0	5	0.00	0.00
	2	1	0	0	38	0.00	0.00
		2	0	0	38	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	35	0.00	0.00
		2	0	0	35	0.00	0.00
	5	1	0	0	35	0.00	0.00
		2	0	0	35	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	37	0.00	0.00

	2	0	0	37	0.00	0.00
8	1	0	0	33	0.00	0.00
	2	0	0	33	0.00	0.00
9	1	0	0	13	0.00	0.00
	2	0	0	13	0.00	0.00
10	1	0	0	18	0.00	0.00
	2	0	0	18	0.00	0.00
11	1	0	0	27	0.00	0.00
	2	0	0	27	0.00	0.00
12	1	0	0	27	0.00	0.00
	2	0	0	27	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	7	0.00	0.00
	2	0	0	7	0.00	0.00

## Collections

### Point to Point Journey Time

Note: Auto Calculate disabled on this Local Matrix (Paths and Flow Allocation might not be up to date).

#### Average Journey Time (s) for Local Matrix: 1

	To								
	A28	B28	C28	D28	E28	F28	G28	H28	
From	A28	454.5	768.1	605.9	821.2	668.3	438.7	448.6	0.0
	B28	454.9	0.0	539.7	672.6	600.7	417.8	425.3	0.0
	C28	133.7	641.0	0.0	88.4	104.8	107.9	117.3	0.0
	D28	1070.6	1347.6	995.3	0.0	998.3	859.7	868.8	0.0
	E28	127.1	592.2	185.2	80.2	210.1	112.8	121.0	0.0
	F28	89.9	319.6	131.9	153.7	148.1	0.0	15.3	0.0
	G28	96.9	325.5	124.2	140.4	129.3	160.5	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)
32	C28	E28	105	104.76	526.66	0.00	0.00	0.00	105	104.76	526.66
36	C28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
41	E28	A28	407	127.78	693.45	0.00	0.00	0.00	407	127.78	693.45
49	C28	D28	185	88.41	514.00	0.00	0.00	0.00	185	88.41	514.00
50	E28	D28	114	80.22	370.08	0.00	0.00	0.00	114	80.22	370.08
68	E28	G28	140	121.33	737.43	0.00	0.00	0.00	140	121.33	737.43
92	E28	F28	5	112.84	644.57	0.00	0.00	0.00	5	112.84	644.57
100	E28	B28	296	647.19	623.35	0.00	0.00	0.00	296	647.19	623.35
102	A28	C28	325	578.00	694.76	0.00	0.00	0.00	325	578.00	694.76

103	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
105	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
107	A28	B28	55	768.11	716.08	0.00	0.00	0.00	55	768.11	716.08
110	E28	G28	26	118.86	731.08	0.00	0.00	0.00	26	118.86	731.08
112	F28	G28	43	15.30	149.60	0.00	0.00	0.00	43	15.30	149.60
113	F28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
115	B28	C28	4	540.78	556.36	0.00	0.00	0.00	4	540.78	556.36
125	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
130	G28	C28	745	119.59	769.88	0.00	0.00	0.00	745	119.59	769.88
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
140	B28	G28	237	425.47	1063.74	0.00	0.00	0.00	237	425.47	1063.74
141	B28	F28	6	417.81	970.89	0.00	0.00	0.00	6	417.81	970.89
142	B28	G28	5	425.44	1059.16	0.00	0.00	0.00	5	425.44	1059.16
143	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
144	B28	G28	14	422.79	1054.40	0.00	0.00	0.00	14	422.79	1054.40
145	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
146	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
147	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
148	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
149	B28	A28	16	454.67	1016.14	0.00	0.00	0.00	16	454.67	1016.14
150	E28	B28	321	541.50	625.89	0.00	0.00	0.00	321	541.50	625.89
151	B28	B28	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	16	319.64	750.62	0.00	0.00	0.00	16	319.64	750.62
154	E28	A28	4	117.27	694.61	0.00	0.00	0.00	4	117.27	694.61
155	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
156	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
157	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
158	A28	G28	323	449.48	1196.15	0.00	0.00	0.00	323	449.48	1196.15
159	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
160	B28	D28	178	674.82	698.10	0.00	0.00	0.00	178	674.82	698.10
161	B28	E28	48	661.49	713.02	0.00	0.00	0.00	48	661.49	713.02
162	B28	D28	2	492.42	699.36	0.00	0.00	0.00	2	492.42	699.36
163	B28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
164	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
165	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
166	B28	C28	91	539.66	553.47	0.00	0.00	0.00	91	539.66	553.47
167	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
168	G28	A28	718	96.09	386.06	0.00	0.00	0.00	718	96.09	386.06
169	G28	B28	60	331.39	788.72	0.00	0.00	0.00	60	331.39	788.72
170	G28	B28	259	324.08	789.10	0.00	0.00	0.00	259	324.08	789.10
171	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
172	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
173	F28	D28	46	153.69	871.57	0.00	0.00	0.00	46	153.69	871.57
174	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
175	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
176	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
177	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
178	B28	E28	301	659.73	710.57	0.00	0.00	0.00	301	659.73	710.57
179	B28	E28	163	474.37	711.82	0.00	0.00	0.00	163	474.37	711.82
180	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
181	F28	C28	45	131.92	729.68	0.00	0.00	0.00	45	131.92	729.68
182	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
183	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
184	C28	A28	45	132.08	834.22	0.00	0.00	0.00	45	132.08	834.22

185	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
186	A28	C28	40	829.65	699.04	0.00	0.00	0.00	40	829.65	699.04
187	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
188	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
189	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
190	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
191	D28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
192	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
193	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
194	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
195	D28	G28	179	868.79	744.99	0.00	0.00	0.00	179	868.79	744.99
196	D28	F28	8	859.67	652.14	0.00	0.00	0.00	8	859.67	652.14
197	D28	G28	1	867.30	740.41	0.00	0.00	0.00	1	867.30	740.41
198	D28	A28	6	1070.65	704.54	0.00	0.00	0.00	6	1070.65	704.54
199	D28	B28	310	1320.57	1101.39	0.00	0.00	0.00	310	1320.57	1101.39
200	D28	B28	27	1313.37	1101.77	0.00	0.00	0.00	27	1313.37	1101.77
201	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
202	F28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
203	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
205	A28	E28	185	410.82	857.96	0.00	0.00	0.00	185	410.82	857.96
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
246	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
248	D28	C28	264	995.27	1078.32	0.00	0.00	0.00	264	995.27	1078.32
249	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
252	F28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
283	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
284	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
285	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
286	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
307	G28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
317	C28	G28	220	118.92	870.70	0.00	0.00	0.00	220	118.92	870.70
318	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
319	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
320	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
322	C28	G28	1	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00
323	C28	F28	7	107.87	787.41	0.00	0.00	0.00	7	107.87	787.41
324	C28	G28	171	115.50	875.68	0.00	0.00	0.00	171	115.50	875.68
325	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
330	C28	A28	137	133.25	834.99	0.00	0.00	0.00	137	133.25	834.99
331	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
332	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
334	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
342	C28	B28	3	554.83	756.38	0.00	0.00	0.00	3	554.83	756.38
343	C28	B28	27	652.21	753.20	0.00	0.00	0.00	27	652.21	753.20
364	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
379	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
380	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
381	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
382	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
383	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
384	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
385	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
386	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
387	A28	A28	3	468.01	1157.89	0.00	0.00	0.00	3	468.01	1157.89
388	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

389	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
390	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
391	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
392	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
393	D28	B28	19	1471.72	1451.24	0.00	0.00	0.00	19	1471.72	1451.24
394	D28	B28	31	1566.94	1448.06	0.00	0.00	0.00	31	1566.94	1448.06
395	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
396	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
397	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
398	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
399	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
400	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
401	G28	F28	6	160.50	1180.56	0.00	0.00	0.00	6	160.50	1180.56
402	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
403	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
404	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
405	A28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
406	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
407	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
408	H28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
409	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
410	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
411	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
412	F28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
413	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
414	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
415	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
417	A28	E28	3	408.42	855.50	0.00	0.00	0.00	3	408.42	855.50
418	G28	C28	146	147.61	767.78	0.00	0.00	0.00	146	147.61	767.78
423	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
424	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
425	E28	C28	45	177.91	1070.52	0.00	0.00	0.00	45	177.91	1070.52
428	E28	C28	49	192.02	1069.36	0.00	0.00	0.00	49	192.02	1069.36
431	D28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
439	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
440	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
441	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
442	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
443	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
444	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
445	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
446	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
447	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
448	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
449	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
450	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
451	G28	D28	148	140.44	910.65	0.00	0.00	0.00	148	140.44	910.65
452	G28	E28	260	129.34	925.57	0.00	0.00	0.00	260	129.34	925.57
453	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
454	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
455	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
456	E28	E28	1	210.14	1219.72	0.00	0.00	0.00	1	210.14	1219.72
457	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
458	D28	E28	17	998.26	1232.00	0.00	0.00	0.00	17	998.26	1232.00
459	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
460	F28	E28	17	148.11	886.49	0.00	0.00	0.00	17	148.11	886.49

461	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
462	A28	G28	127	446.34	1205.17	0.00	0.00	0.00	127	446.34	1205.17
463	A28	F28	8	438.67	1112.32	0.00	0.00	0.00	8	438.67	1112.32
464	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
465	A28	E28	281	840.17	852.36	0.00	0.00	0.00	281	840.17	852.36
466	A28	D28	13	840.66	839.90	0.00	0.00	0.00	13	840.66	839.90
467	G28	A28	118	101.55	388.25	0.00	0.00	0.00	118	101.55	388.25
468	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
469	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
470	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
471	B28	A28	3	456.24	1012.52	0.00	0.00	0.00	3	456.24	1012.52
472	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
473	C28	A28	116	134.75	831.37	0.00	0.00	0.00	116	134.75	831.37
474	E28	A28	85	124.53	690.99	0.00	0.00	0.00	85	124.53	690.99
475	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
476	D28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
477	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
478	F28	A28	69	89.89	350.15	0.00	0.00	0.00	69	89.89	350.15

## Final Prediction Table

### Traffic Stream Results

				SIGNALS		FLOWS		PERFORMANCE				PER PCU			QUEUES	WEIGHTS		PENALTIES	P.I.
Arm	Traffic Stream	Name	Traffic mode	Controller stream	Phase	Calculated flow entering (PCU/hr)	Calculated sat flow (PCU/hr)	Actual greens (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	718	2050	26	0.00	78	16	24.87	19.30	59.08	6.98	20	0	0.00	10.93
	2	(untitled)	6	771-2	E	713	2050	26	0.00	77	16	26.04	20.29	69.92	8.79	20	0	0.00	11.41
	3	(untitled)	6	771-2	E	745	2050	26	0.00	81	11	23.75	17.87	60.04	11.47	20	0	0.00	10.50
	4	(untitled)	6	771-2	E	477	2050	26	0.00	52	74	17.37	11.36	50.54	5.27	20	0	0.00	4.28
Ac	1	(untitled)	6	771-2	D	614	2263	24	3.00	65	38	19.67	12.48	50.47	5.42	100	500	0.00	80.01
	2	(untitled)	6	771-2	D	573	2263	24	2.04	63	42	17.40	7.90	55.22	7.60	100	500	0.00	44.84
	3	(untitled)	6	771-2	D	281	2263	24	17.00	30	202	7.44	0.84	1.44	0.07	100	500	0.00	1.58
Ac f	1	(untitled)	6			1187	2263	60	24.00	52	72	6.10	0.88	0.00	0.29	100	100	0.00	4.10
	2	(untitled)	6			281	2263	60	52.00	12	625	7.36	0.11	0.00	0.01	100	100	0.00	0.12
Af	1	(untitled)	6			1431	2050	60	6.00	70	29	8.44	2.02	0.00	0.80	100	100	0.00	11.40
	2	(untitled)	6			745	2050	60	18.32	37	146	6.90	0.52	1.69	1.55	100	100	0.00	1.68
	3	(untitled)	6			477	2050	60	6.00	23	287	6.63	0.27	0.00	0.04	100	100	0.00	0.50
B	1	(untitled)	1	769-1	B	323	2050	11	2.00	79	14	52.67	45.57	124.29	6.78	20	0	0.00	11.62

	2	(untiled)	1	769-1	B	284 <	2150	11	4.07	100	-10	285.80	278.51	324.27	24.19+	20	0	0.00	62.42
	3	(untiled)	1	769-1	B	275	2100	11	1.29	73	23	37.71	30.23	92.76	4.31	20	0	0.00	6.55
	4	(untiled)	1	769-1	B	277	2050	11	0.00	68	33	41.46	29.17	92.58	4.31	20	0	0.00	6.38
Bc	1	(untiled)	1	769-1	A	895	2050	37	6.00	69	31	21.86	9.91	57.81	10.67	100	500	0.00	92.65
	2	(untiled)	1	769-1	A	968	2050	37	4.00	75	21	16.53	4.70	13.53	6.90	100	500	0.00	32.55
	3	(untiled)	1	769-1	A	535	2050	37	4.00	41	119	13.13	1.42	5.66	9.81	100	500	0.00	6.37
Bc f	1	(untiled)	1			1332	2263	60	11.00	59	53	5.50	1.14	0.00	0.42	100	100	0.00	5.97
	2	(untiled)	1			1286	2263	60	9.00	57	58	6.48	1.04	0.00	0.37	100	100	0.00	5.30
	3	(untiled)	1			968	2263	60	25.00	43	110	6.59	0.59	0.00	0.16	100	100	0.00	2.27
	4	(untiled)	1			535	2263	60	25.00	24	281	6.56	0.25	0.00	0.04	100	100	0.00	0.52
Bf	1	(untiled)	1			607 <	1800	60	38.40	94	-4	202.15	174.81	391.63	44.41+	100	100	0.00	448.65
	2	(untiled)	1			552	1800	60	0.00	31	193	27.86	0.44	0.00	0.07	100	100	0.00	0.96
C	1	(untiled)	2	769-2	G	82	2100	16	14.00	14	551	31.46	16.92	100.64	1.46	20	0	0.00	1.10
	2	(untiled)	2	769-2	G	599 <	2200	16	0.00	96	-6	144.75	130.02	263.31	27.47+	20	0	0.00	61.48
	3	(untiled)	2	769-2	G	243	2050	16	9.00	42	115	41.95	27.03	103.67	4.21	20	0	0.00	5.19
Cf	1	(untiled)	2			539 <	1965	60	43.55	100	-10	209.42	192.06	354.91	35.76+	100	100	0.00	432.15
	2	(untiled)	2			386	1965	60	45.02	36	152	25.60	8.10	70.80	4.87	100	100	0.00	15.77
D	1	(untiled)	3	770-1	B	290	2050	10	0.00	77	17	42.89	38.77	109.17	5.35	20	0	0.00	8.87
	2	(untiled)	3	770-1	B	178	1850	10	0.00	52	71	32.08	27.95	94.08	2.82	20	0	0.00	3.93
	3	(untiled)	3	770-1	B	265	2250	10	0.00	64	40	34.37	30.41	97.45	4.32	20	0	0.00	6.36
	4	(untiled)	3	770-1	B	283	2250	10	0.00	69	31	36.38	32.22	99.96	4.74	20	0	0.00	7.19
Dc	1	(untiled)	3	770-1	A	643	2100	40	12.00	45	101	9.61	3.50	16.15	1.76	100	500	0.00	15.39
	2	(untiled)	3	770-1	A	852	2100	40	6.00	59	52	16.94	11.06	54.04	7.68	100	500	0.00	66.07
	3	(untiled)	3	770-1	A	336	2100	40	28.00	23	285	6.21	0.56	2.10	0.12	100	500	0.00	1.19
	4	(untiled)	3	770-1	A	348	2100	40	23.00	24	271	8.32	2.91	13.96	1.49	100	500	0.00	7.05
Dc f	1	(untiled)	3			640	2050	60	31.00	31	188	5.31	0.40	0.00	0.07	100	100	0.00	1.01
	2	(untiled)	3			1006	2100	60	27.00	48	88	5.68	0.79	0.00	0.22	100	100	0.00	3.12
	3	(untiled)	3			643	2100	60	31.00	31	194	6.40	0.38	0.00	0.07	100	100	0.00	0.96
	4	(untiled)	3			852	2100	60	20.05	53	70	9.17	1.75	9.19	1.96	100	100	0.00	7.22
	5	(untiled)	3			336	2100	60	48.00	16	463	6.19	0.16	0.00	0.02	100	100	0.00	0.22

	6	(untitled)	3			348	2050	60	41.00	17	430	8.12	0.18	0.00	0.02	100	100	0.00	0.25
Df	1	(untitled)	3-2			468	1900	60	0.00	25	265	24.31	0.31	0.00	0.04	100	100	0.00	0.57
	2	(untitled)	3-2			548	2250	60	0.00	24	270	24.26	0.26	0.00	0.04	100	100	0.00	0.56
DxP	1	(untitled)	3-2	770-2	D	701	2050	43	6.00	47	93	5.75	2.32	13.63	1.66	100	100	0.00	9.49
	2	(untitled)	3-2	770-2	D	1003	2050	43	10.00	67	35	6.09	2.48	8.66	2.40	100	100	0.00	12.61
Ec	1	(untitled)	4	770-3	F	546	2150	36	12.00	41	119	12.68	8.93	48.55	4.42	100	500	0.00	61.77
	2	(untitled)	4	770-3	F	514	2263	36	16.00	37	145	13.10	9.47	46.12	4.93	100	500	0.00	57.21
	3	(untitled)	4	770-3	F	552	2263	36	16.00	40	128	4.68	1.17	3.60	0.33	100	500	0.00	5.73
	4	(untitled)	4	770-3	F	272	2250	36	25.00	20	359	6.45	1.03	6.58	0.30	100	500	0.00	2.23
Ecf	1	(untitled)	4			748	2100	60	20.00	36	153	3.92	0.47	0.00	0.10	100	100	0.00	1.40
	2	(untitled)	4			1037	2100	60	14.00	49	82	4.31	0.84	0.00	0.24	100	100	0.00	3.42
	3	(untitled)	4			514	2263	60	36.00	23	297	4.49	0.23	0.00	0.03	100	100	0.00	0.47
	4	(untitled)	4			552	2300	60	33.00	24	275	4.84	0.25	0.00	0.04	100	100	0.00	0.54
	5	(untitled)	4			344	2300	60	39.00	15	501	5.58	0.14	0.00	0.01	100	100	0.00	0.19
Ef	1	(untitled)	4			876	1900	60	0.00	46	95	16.11	0.81	0.00	0.20	100	100	0.00	2.80
	2	(untitled)	4			617	1900	60	0.00	32	177	15.76	0.46	0.00	0.08	100	100	0.00	1.11
Exp	1	(untitled)	4-2	770-4	L	748	2050	40	9.00	53	68	8.19	4.30	27.84	3.64	100	100	0.00	19.38
	2	(untitled)	4-2	770-4	L	491	2050	40	8.00	35	157	5.03	1.00	11.35	2.41	100	100	0.00	3.73
F	1	(untitled)	5	771-1	B	153	2100	7	3.00	55	64	48.44	42.06	11.24	2.89	20	0	0.00	5.09
	2	(untitled)	5	771-1	B	280 <	2100	7	0.00	100	-10	262.96	25.65	32.69	21.81+	20	0	0.00	56.67
	3	(untitled)	5	771-1	B	280 <	2100	7	0.00	100	-10	263.08	25.65	32.69	21.81+	20	0	0.00	56.67
Fc	1	(untitled)	5	771-1	A	659	2263	43	13.36	43	109	20.46	1.23	10.50	1.87	100	500	0.00	8.88
	2	(untitled)	5	771-1	A	712	2263	43	14.99	46	96	21.47	2.41	22.44	3.76	100	500	0.00	19.90
	3	(untitled)	5	771-1	A	729	2263	43	23.01	48	86	22.98	3.35	22.37	6.98	100	500	0.00	22.11
Ff	1	(untitled)	5			433 <	1900	60	46.31	100	-10	422.48	38.94	57.43	57.75+	100	100	0.00	697.00
	2	(untitled)	5			270	1900	60	51.16	97	-7	280.03	24.69	27.29	21.04	100	100	0.00	272.80
G	1	(untitled)	2	769-2	F	340 <	2050	16	7.61	106	-15	286.61	27.06	37.39	29.92+	100	500	18743.47	1920.887
	2	(untitled)	2	769-2	F	349 <	2050	16	7.57	108	-17	390.86	37.94	42.06	42.34+	100	500	14405.435	1447.9431
Gf	1	(untitled)	4			321	2050	60	46.00	16	475	3.20	0.16	0.28	2.33	100	100	0.00	0.24
	2	(untitled)	4			296	2050	60	49.71	15	485	3.84	0.84	16.17	4.65	100	100	0.00	2.52

xA	1	(untitled)	10			636	2263	60	37.37	31	186	18.12	0.89	10.98	2.39	100	100	0.00	4.48
	2	(untitled)	10			709	2263	60	29.00	31	187	17.61	0.36	0.01	0.07	100	100	0.00	1.02
xB	1	(untitled)				1723	Unrestricted	60	0.00	0	Unrestricted	6.60	0.00	0.00	0.00	100	100	0.00	0.00
xC	1	(untitled)				650 <	1900	60	39.47	100	-10	140.12	131.45	124.14	30.00+	100	100	0.00	362.93
	2	(untitled)				650 <	1900	60	39.47	100	-10	136.51	127.81	128.93	30.00+	100	100	0.00	354.58
xD	1	(untitled)				701	Unrestricted	60	10.00	0	Unrestricted	9.11	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				1003	Unrestricted	60	16.00	0	Unrestricted	9.16	0.00	0.00	0.00	100	100	0.00	0.00
xE	1	(untitled)				748	Unrestricted	60	11.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				491	Unrestricted	60	11.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
xF	1	(untitled)				660	Unrestricted	60	0.00	0	Unrestricted	12.19	0.00	0.00	0.00	100	100	0.00	0.00
Cc 1	1	(untitled)	2	769-2	E	657	2050	29	4.37	75	20	19.19	12.64	65.46	6.26	100	100	0.00	49.66
E1	1	(untitled)	4	770-3	G	419	2050	13	0.00	88	3	51.91	45.91	120.04	8.64	20	0	0.00	15.18
	2	(untitled)	4	770-3	G	457	2200	13	0.00	89	1	53.18	47.18	121.53	9.56	20	0	0.00	17.01
Gf 1	1	(untitled)	4			72	672	60	42.00	11	736	6.07	0.33	0.13	0.01	100	100	0.00	0.10
Cc 2	2	(untitled)	2	769-2	D	561	2150	30	5.42	51	76	15.50	5.87	54.64	5.83	100	500	0.00	39.59
	3	(untitled)	2	769-2	D	410	2050	30	19.01	39	132	14.95	5.08	85.39	8.42	100	500	0.00	36.82
	4	(untitled)	2	769-2	D	1002	2150	30	0.19	91	-1	27.20	21.10	54.49	9.54	100	500	0.00	192.67
	5	(untitled)	2	769-2	D	607	2050	30	4.22	60	51	12.82	5.88	35.37	9.88	100	500	0.00	52.00
	6	(untitled)	2	769-2	D	320	2050	30	20.00	30	198	16.17	8.52	93.76	8.16	100	500	0.00	47.77
E2	3	(untitled)	4	770-3	H	321	2150	13	0.37	66	37	31.88	27.88	91.31	5.26	20	0	0.00	7.06
	4	(untitled)	4	770-3	H	296	2050	13	0.00	62	45	30.73	26.65	89.81	4.44	20	0	0.00	6.22
TC5	2	(untitled)	TC771-6	TC777-1	A	599	2263	38	21.00	40	127	7.73	4.96	30.36	3.03	100	100	0.00	14.02
	3	(untitled)	TC771-6	TC777-1	A	709	2263	38	13.00	47	92	4.13	1.36	9.30	1.66	100	100	0.00	4.64
	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	1301 <	1925	39	0.00	97	-7	45.01	34.01	106.57	24.74+	100	100	0.00	191.91
	2	(untitled)	TC771-6	TC777-1	B	745	1966	39	0.00	54	66	16.95	5.89	42.99	5.37	100	100	0.00	21.32
	3	(untitled)	TC771-6	TC777-1	B	414	1947	39	0.00	30	196	15.13	4.01	34.29	2.37	100	100	0.00	8.33
TC35	1	(untitled)	TC771-6	TC777-1	A	37	1900	38	32.00	3	3020	6.14	3.24	34.65	0.21	100	100	0.00	0.63

T C36	1	(untitled)	TC 771-6			236	1800	60	0.00	13	586	3.18	0.15	0.00	0.01	100	100	0.00	0.14
T C37	1	(untitled)	TC 771-6	TC777-2	J	43	1850	43	43.00	3	2740	5.50	2.31	26.74	0.19	100	100	0.00	0.79
T C38	1	(untitled)	TC 771-6			43	440	60	50.00	10	821	2.40	0.86	27.39	2.42	100	100	0.00	0.56
T C39	2	(untitled)	TC 771-6			599	2263	60	41.00	26	240	2.82	0.29	0.00	0.05	100	100	0.00	0.68
	3	(untitled)	TC 771-6			709	2263	60	33.00	31	187	2.76	0.36	0.00	0.07	100	100	0.00	1.01
T C40	2	(untitled)	TC 771-6			642	Unrestricted	60	27.00	0	Unrestricted	4.23	0.00	0.00	0.00	100	100	0.00	0.00
	3	(untitled)	TC 771-6			709	Unrestricted	60	19.00	0	Unrestricted	4.02	0.00	0.00	0.00	100	100	0.00	0.00
T C41	1	(untitled)	TC 771-6	TC777-1	D	193	1850	11	0.00	52	73	30.64	26.71	91.55	2.98	100	100	0.00	26.49
T C42	1	(untitled)	TC 771-6	TC777-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
T C43	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			1068 <	1965	60	31.75	115	-22	270.46	26.384	30.137	89.41+	100	100	0.00	1146.43
49	1	(untitled)	TC 771-6			1301 <	1900	60	3.87	73	23	6.11	2.96	14.01	5.33+	100	100	0.00	17.46
	2	(untitled)	TC 771-6			1159	1900	60	0.00	61	48	4.63	1.48	0.00	0.48	100	100	0.00	6.75
50	1	(untitled)	1			1363 <	1900	60	23.38	118	-23	289.70	28.393	30.801	123.49+	100	100	0.00	1571.25
51	1	(untitled)	4-2			862 <	1900	60	37.78	123	-27	353.89	34.939	32.611	92.83+	100	100	0.00	1216.74

### Pedestrian Crossing Results

Pedestrian	Side	Name	Traffic node	SIGNALS		FLOWS		PERFORMANCE			PER PED		QUEUES	WEIGHTS	PENALTIES	P.I.
				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)				
1	1	(untitled)	3-2	770-2	E	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3-2	770-2	E	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
2	1	(untitled)	3	770-1	C	0	11000	38	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3	770-1	C	0	11000	38	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	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	J	0	11000	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
5	1	(untitled)	4	770-3	I	0	11000	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	I	0	11000	35	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	37	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	5	771-1	C	0	11000	37	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
8	1	(untitled)	1	769-1	C	0	11000	33	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	1	769-1	C	0	11000	33	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
9	1	(untitled)	2	769-2	J	0	11000	13	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	J	0	11000	13	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
10	1	(untitled)	2	769-2	K	0	11000	18	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	K	0	11000	18	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
11	1	(untitled)		769-2	H	0	11000	27	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		769-2	H	0	11000	27	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
12	1	(untitled)	2	769-2	I	0	11000	27	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	I	0	11000	27	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	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-2	K	0	11000	7	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	6095.21	867.97	7.02	706.59	8505.13	1198.69	162797.81	172501.64

<b>Bus</b>								
<b>Tram</b>								
<b>Pedestrians</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	6095.21	867.97	7.02	706.59	8505.13	1198.69	162797.81	172501.64

- < = 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  
© Copyright TRL Limited, 2019

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

**The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution**

**Filename:** M62 JN 28 CRF Scheme\_Mar 20\_PF\_Sept 20\_RevC\_mitigation  
DS\_optA+D\_2032+Dev\_03.t16  
**Path:** P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\Transyt\Option A+D  
**Report generation date:** 24/01/2021 16:14:36

## »Network Diagrams

«A15 - AM Base 2032+Dev : D15 - AM 2032+Dev, :

»Summary

»Network Options

»Traffic Nodes

»Arms and Traffic Streams

»Pedestrian Crossings

»Local OD Matrix - Local Matrix: 1

»Signal Timings

»Results - Link

»Results - Traffic Stream

»Data Entry - Stage Start and End

»Data Entry - Phase

»Data Entry - Traffic Stream

»Data entry - Link

»Results - Pedestrian

»Collections

»Point to Point Journey Time

»Final Prediction Table

## Summary of network performance

	Set ID	Cycle time (s)	PI (£ per hr)	Total delay (PCU-hr/hr)	Highest DOS	Number oversaturated
AM Base 2032+Dev - AM 2032+Dev						
Network	A15 D15	120	10013.40	771.43	182% (TS 50/1)	14 (9%)

*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-Ambler	Display End-Of-Green Ambler	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

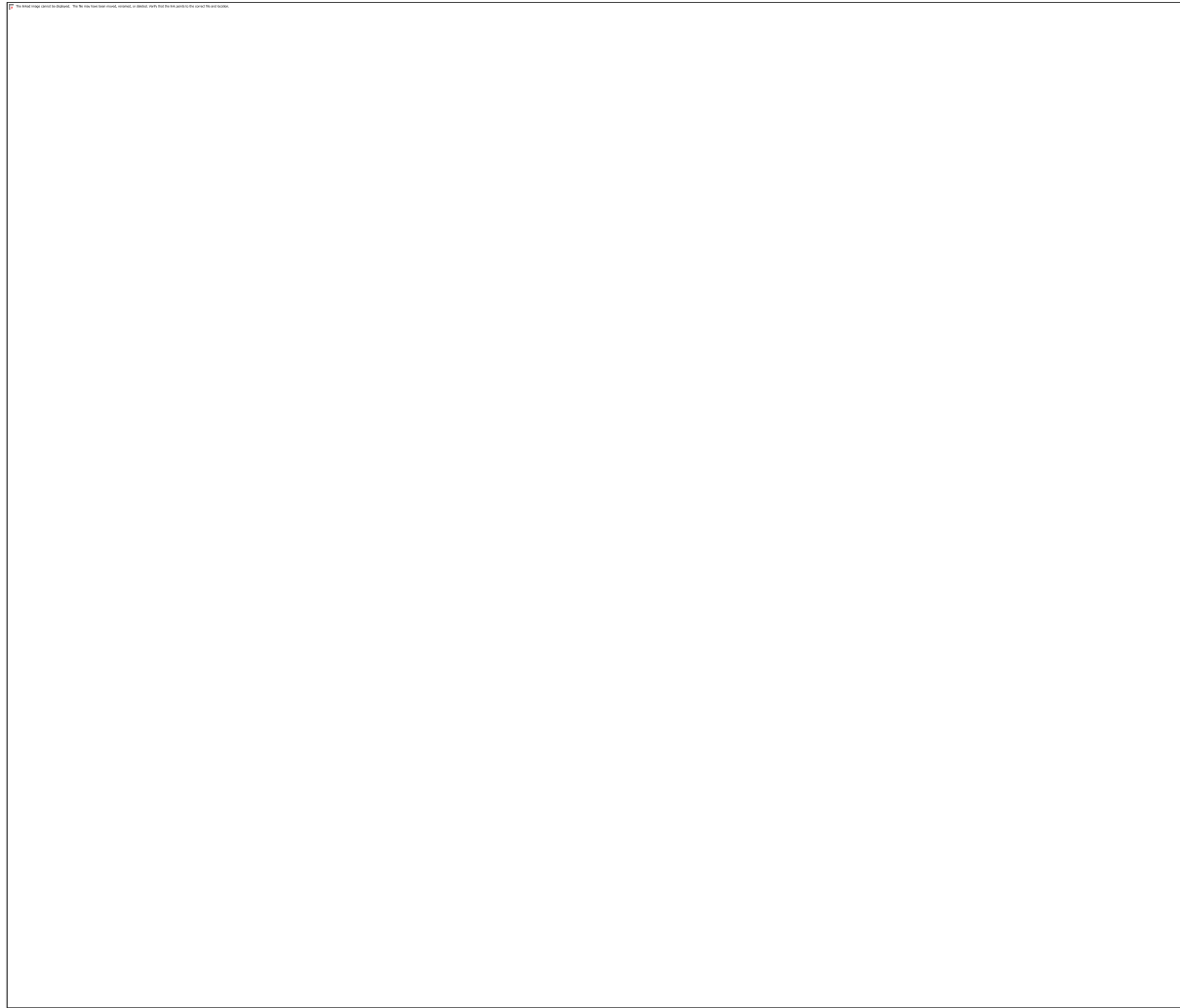
## Sorting

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+Dev D15 - AM 2032+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: Auto Calculate option is switched off - OD flows will not be allocated automatically to the network.
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)	Modeling 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 over all PRC	Network within capacity
15	24/01/2021 16:13:30	24/01/2021 16:13:42	12.42	07:30	120	10013.40	771.43	182.20	50/1	14	9	TC42/1	50/1	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+Dev			✓	D15		✓	

## Demand Set Details

Scenario name	Time Period name	Description	Composite	Demand sets	Start time (HH:mm)	Locked	Run automatically
AM 2032+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 <sup>-2</sup> )	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

### Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms <sup>-2</sup> )	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		✓	769-1, 769-2, 770-1, 770-2, 770-3, 770-4, 771-1, 771-2, 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-calculated 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	✓	74.35	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.69	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.40	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.11	✓	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)		✓	62.77	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	62.62	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.46	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.38	✓	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	✓	122.73	✓	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	
<b>D</b>	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	
	4	(untitled)	Leeds/M62/Wake	✓	55.42	✓	Directly entered	2250		2250	✓		Normal	
<b>Dc</b>	1	(untitled)	Brad	✓	50.91	✓	Directly entered	2100		2100	✓		Normal	
	2	(untitled)	Brad/M62W	✓	48.96	✓	Directly entered	2100		2100	✓		Normal	
	3	(untitled)	Leeds	✓	47.02	✓	Directly entered	2100		2100	✓		Normal	
	4	(untitled)	Leeds/M62E	✓	45.07	✓	Directly entered	2100		2100	✓		Normal	
<b>Dcf</b>	1	(untitled)		✓	65.43	✓	Directly entered	2050		2050			Normal	
	2	(untitled)		✓	65.28	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	65.54	✓	Directly entered	2100		2100			Normal	
	4	(untitled)		✓	67.69	✓	Directly entered	2100		2100			Normal	
	5	(untitled)		✓	66.13	✓	Directly entered	2100		2100			Normal	
	6	(untitled)		✓	66.17	✓	Directly entered	2050		2050			Normal	
<b>Df</b>	1	(untitled)			200.00	✓	Sum of lanes	1900					Normal	
	2	(untitled)			200.00	✓	Directly entered	2250					Normal	
<b>Dxp</b>	1	(untitled)		✓	45.75	✓	Directly entered	2050			✓		Normal	
	2	(untitled)		✓	48.11	✓	Directly entered	2050			✓		Normal	
<b>Ec</b>	1	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal	
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal	
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal	
	4	(untitled)	M62E	✓	45.11	✓	Directly entered	2250		2250	✓		Normal	
<b>Ecf</b>	1	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal	
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal	
	3	(untitled)		✓	46.95	✓	Directly entered	2263		2263			Normal	
	4	(untitled)		✓	47.51	✓	Directly entered	2300		2300			Normal	
	5	(untitled)		✓	48.55	✓	Directly entered	2300		2300			Normal	
<b>Ef</b>	1	(untitled)		✓	127.54	✓	Directly entered	1900					Normal	
	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal	
<b>Exp</b>	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)		✓	77.45								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)		✓	121.44								Normal
	2	(untitled)		✓	122.12								Normal
xE	1	(untitled)		✓	173.89								Normal
	2	(untitled)		✓	173.83								Normal
xF	1	(untitled)		✓	162.53								Normal
Cc1	1	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal
E1	1	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal
Gf1	1	(untitled)		✓	47.81						✓		Normal
Cc2	2	(untitled)	Dews	✓	91.52	✓	Directly entered	2150		2100	✓		Normal
	3	(untitled)	Brad/M62W	✓	91.11	✓	Directly entered	2050		2050	✓		Normal
	4	(untitled)	Dews/Brad	✓	90.39	✓	Directly entered	2150		2100	✓		Normal
	5	(untitled)	Leeds	✓	90.48	✓	Directly entered	2050		2050	✓		Normal
	6	(untitled)	Leeds	✓	88.08	✓	Directly entered	2050		2050	✓		Normal
E2	3	(untitled)	Wake	✓	53.28	✓	Directly entered	2150		2050	✓		Normal









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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Ac	1	CTM	500	100	100		0.00	✓	16.50	9999.00				
	2	CTM	50	100	100		0.00	✓	16.50	9999.00				
	3	CTM	500	100	100		0.00	✓	16.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Bc	1	CTM	500	100	100		0.00	✓	22.50	9999.00				

	2	CTM	500	100	100		0.00	✓	22.50	9999.00				
	3	CTM	500	100	100		0.00	✓	22.50	9999.00				
<b>Bcf</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							
<b>Bf</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
<b>C</b>	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
<b>Cf</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
<b>D</b>	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
<b>Dc</b>	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
<b>Dcf</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							
	5	CTM	100	100	100		0.00							
	6	CTM	100	100	100		0.00							
<b>Df</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Dx P</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Ec</b>	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
<b>Ecf</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							
	5	CTM	100	100	100		0.00							
<b>Ef</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Exp</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							

F	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
Fc	1	CTM	500	100	100		0.00	✓	32.0 0	9999. 00				
	2	CTM	500	100	100		0.00	✓	32.0 0	9999. 00				
	3	CTM	500	100	100		0.00	✓	32.0 0	9999. 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	500	100	100		0.00	✓	26.0 0	9999. 00				
	2	CTM	500	100	100		0.00	✓	26.0 0	9999. 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	NetworkDe fault	100	100	100		0.00							
xC	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xD	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
xE	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
xF	1	NetworkDe fault	100	100	100		0.00							
Cc1	1	CTM	100	100	100		0.00							
E1	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
Gf1	1	NetworkDe fault	100	100	100		0.00							
Cc2	2	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	3	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	4	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	5	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	6	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
E2	3	CTM	0	20	100		0.00							
	4	CTM	0	20	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	NetworkDe fault	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	NetworkDe fault	100	100	100		0.00							
TC 43	1	NetworkDe fault	100	100	100		0.00							
47	1	CTM	100	100	100		0.00							
48	1	NetworkDe fault	100	100	100		0.00							
49	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
50	1	NetworkDe fault	100	100	100		0.00							
51	1	NetworkDe fault	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	292	292
	2	289	289
	3	392	392
	4	280	280
Ac	1	805	805
	2	837	837
	3	170	170
Acf	1	1642	1642
	2	170	170
Af	1	582	582
	2	392	392
	3	280	280
B	1	456	456
	2	498	498
	3	498	498
	4	491	491
Bc	1	662	662

	2	520	520
	3	321	321
<b>Bcf</b>	1	1097	1097
	2	1127	1127
	3	520	520
	4	321	321
<b>Bf</b>	1	954	954
	2	989	989
<b>C</b>	1	98	98
	2	904	904
	3	585	585
<b>Cf</b>	1	856	856
	2	731	731
<b>D</b>	1	522	522
	2	492	492
	3	607	607
	4	646	646
<b>Dc</b>	1	887	887
	2	927	927
	3	840	840
	4	806	806
<b>Dcf</b>	1	828	828
	2	366	366
	3	887	887
	4	927	927
	5	840	840
	6	806	806
<b>Df</b>	1	1014	1014
	2	1253	1253
<b>Dxp</b>	1	828	828
	2	366	366
<b>Ec</b>	1	768	768
	2	1331	1331
	3	1333	1333
	4	647	647
<b>Ecf</b>	1	1069	1069
	2	1267	1267
	3	1331	1331
	4	1333	1333
	5	727	727
<b>Ef</b>	1	922	922
	2	516	516
<b>Exp</b>	1	1069	1069
	2	499	499
<b>F</b>	1	299	299
	2	457	457
	3	86	86
<b>Fc</b>	1	1479	1479
	2	1479	1479
	3	1218	1218
<b>Ff</b>	1	756	756
	2	86	86
<b>G</b>	1	287	287
	2	309	309
<b>Gf</b>	1	270	270

	2	246	246
xA	1	1683	1683
	2	1523	1523
xB	1	1562	1562
xC	1	513	513
	2	462	462
xD	1	828	828
	2	366	366
xE	1	1069	1069
	2	499	499
xF	1	825	825
Cc1	1	379	379
E1	1	351	351
	2	571	571
Gf1	1	80	80
Cc2	2	739	739
	3	660	660
	4	357	357
	5	778	778
	6	533	533
E2	3	270	270
	4	246	246
TC5	2	1448	1448
	3	1523	1523
	4	0	0
TC9	1	563	563
	2	382	382
	3	280	280
TC35	1	235	235
TC36	1	44	44
TC37	1	15	15
TC38	1	15	15
TC39	2	1448	1448
	3	1523	1523
TC40	2	1463	1463
	3	1523	1523
TC41	1	29	29
TC42	1	0	0
TC43	1	0	0
47	1	975	975
48	1	1587	1587
49	1	612	612
	2	612	612
50	1	1943	1943
51	1	842	842

## 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>B</b>	1	769-1	B	
	2	769-1	B	
	3	769-1	B	
	4	769-1	B	
<b>Bc</b>	1	769-1	A	
	2	769-1	A	
	3	769-1	A	
<b>C</b>	1	769-2	G	
	2	769-2	G	
	3	769-2	G	
<b>D</b>	1	770-1	B	
	2	770-1	B	
	3	770-1	B	
	4	770-1	B	
<b>Dc</b>	1	770-1	A	
	2	770-1	A	
	3	770-1	A	
	4	770-1	A	
<b>Dxp</b>	1	770-2	D	
	2	770-2	D	
<b>Ec</b>	1	770-3	F	
	2	770-3	F	
	3	770-3	F	
	4	770-3	F	
<b>Exp</b>	1	770-4	L	
	2	770-4	L	
<b>F</b>	1	771-1	B	
	2	771-1	B	
	3	771-1	B	
<b>Fc</b>	1	771-1	A	
	2	771-1	A	
	3	771-1	A	
<b>G</b>	1	769-2	F	
	2	769-2	F	
<b>Cc1</b>	1	769-2	E	
<b>E1</b>	1	770-3	G	
	2	770-3	G	
<b>Cc2</b>	2	769-2	D	
	3	769-2	D	
	4	769-2	D	
	5	769-2	D	
	6	769-2	D	
<b>E2</b>	3	770-3	H	
	4	770-3	H	
<b>TC5</b>	2	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
<b>TC9</b>	1	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
<b>TC35</b>	1	TC777-1	A	
<b>TC37</b>	1	TC777-2	J	
<b>TC41</b>	1	TC777-1	D	
<b>TC42</b>	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	5.58	48.00	✓	Straight	Straight Movement
	2	1	Af/1	A/2	5.75	48.00	✓	Straight	Straight Movement
	3	1	Af/2	A/3	5.88	48.00	✓	Straight	Straight Movement
	4	1	Af/3	A/4	6.01	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	4.71	48.00	✓	Nearside	68.09
	2	1	A/2	Bcf/2	6.63	34.00	✓	Nearside	71.40
	3	1	A/3	Bcf/3	6.61	34.00	✓	Nearside	74.72
	4	1	A/4	Bcf/4	6.60	34.00	✓	Nearside	78.03
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	14.73	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
	4	1	Df/2	D/4	4.16	48.00	✓	Straight	Straight Movement
Dc	1	1	Dcf/3	Dc/1	6.11	30.00	✓	Offside	56.19
	2	1	Dcf/4	Dc/2	5.88	30.00	✓	Offside	52.87
	3	1	Dcf/5	Dc/3	5.64	30.00	✓	Offside	49.56
	4	1	Dcf/6	Dc/4	5.41	30.00	✓	Offside	46.25
Dcf	1	1	Cc2/2	Dcf/1	4.91	48.00	✓	Straight	Straight Movement
	2	1	Cc2/4	Dcf/2	4.90	48.00	✓	Straight	Straight Movement
	3	1	C/2	Dcf/3	4.92	48.00	✓	Nearside	58.12
	4	1	C/2	Dcf/4	5.08	48.00	✓	Nearside	58.12
	5	1	C/3	Dcf/5	4.96	48.00	✓	Nearside	61.43
	6	1	C/3	Dcf/6	7.94	30.00	✓	Nearside	61.43
Dxp	1	1	Dcf/1	Dxp/1	3.43	48.00	✓	Nearside	60.22
	2	1	Dcf/2	Dxp/2	3.61	48.00	✓	Nearside	63.54
Ec	1	1	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	1	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	1	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	1	Ecf/5	Ec/4	5.41	30.00	✓	Offside	66.48
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	3.56	48.00	✓	Offside	66.17
	5	1	Dc/4	Ecf/5	3.64	48.00	✓	Offside	62.86
Exp	1	1	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	1	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	1	1	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	1	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	1	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	1	1	Ec/2	Fc/1	18.84	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	5.81	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	9.11	48.00	✓	Nearside	44.59
	2	1	Dxp/2	xD/2	9.16	48.00	✓	Nearside	47.90
xE	1	1	Exp/1	xE/1	13.04	48.00	✓	Straight	Straight Movement
	2	1	Exp/2	xE/2	13.04	48.00	✓	Straight	Straight Movement
xF	1	1	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
Cc1	1	1	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
E1	1	1	Ef/1	E1/1	6.00	48.00	✓	Nearside	26.33
	2	1	Ef/1	E1/2	6.00	48.00	✓	Nearside	28.96
Gf1	1	1	Ecf/5	Gf1/1	5.74	30.00	✓	Offside	21.77
Cc2	2	1	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	1	B/3	Cc2/3	8.20	40.00	✓	Straight	Straight Movement
	4	1	B/2	Cc2/4	8.14	40.00	✓	Straight	Straight Movement
	5	1	Bc/3	Cc2/5	6.03	54.00	✓	Offside	96.53
	6	1	Bc/3	Cc2/6	5.87	54.00	✓	Offside	93.22
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	11.07	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	3.95	57.00	✓	Offside	89.74
	3	2	Ac/3	Bcf/3	3.95	57.00	✓	Offside	86.42
	4	2	Ac/3	Bcf/4	3.94	57.00	✓	Offside	86.42
C	2	2	Cf/1	C/2	14.73	30.00	✓	Offside	56.58
Dcf	1	2	C/1	Dcf/1	4.91	48.00	✓	Nearside	54.80
	2	2	C/1	Dcf/2	4.90	48.00	✓	Nearside	54.80
	3	2	Cc2/3	Dcf/3	7.87	30.00	✓	Straight	Straight Movement
	4	2	Cc2/3	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
	5	2	Cc2/5	Dcf/5	7.94	30.00	✓	Offside	99.16
	6	2	Cc2/6	Dcf/6	7.94	30.00	✓	Offside	95.85
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	5.63	30.00	✓	Nearside	46.68
	4	2	D/3	Ecf/4	5.70	30.00	✓	Nearside	49.99
	5	2	D/4	Ecf/5	5.83	30.00	✓	Nearside	53.30
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
xB	1	2	Bcf/2	xB/1	9.29	30.00	✓	Nearside	60.96
xC	1	2	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	2	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
xF	1	2	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
Cc1	1	2	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	2	2	Bc/1	Cc2/2	10.98	30.00	✓	Straight	Straight Movement
	3	2	Bc/2	Cc2/3	10.93	30.00	✓	Offside	99.84
	4	2	Bc/2	Cc2/4	6.03	54.00	✓	Straight	Straight Movement
	5	2	B/4	Cc2/5	8.14	40.00	✓	Straight	Straight Movement
	6	2	B/4	Cc2/6	7.93	40.00	✓	Straight	Straight Movement
TC9	2	2	49/1	TC9/2	11.07	30.00	✓	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
Dcf	4	3	Cc2/5	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
xA	2	3	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	3	3	B/2	Cc2/3	10.93	30.00	✓	Straight	Straight Movement
	5	3	B/3	Cc2/5	10.86	30.00	✓	Straight	Straight Movement

### Give Way Data

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

### Give Way Data - All Movements - Conflicts

Traffic Stream	Description	Controlling type	Controlling traffic stream	Percentage opposing (%)	Slope coefficient	Upstream signals visible
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



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	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	487
	49	I1	C28	D28	Df/1, D/1, Ecf/2, Ec/1, xF/1	Normal	340
	50		E28	D28	Ef/1, E1/1, xF/1	Normal	57
	68		E28	G28	Ef/1, E1/1, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	114
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	33
	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Normal	246
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	403
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	0
	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	53
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	96
	112		F28	G28	TC36/1, TC37/1, TC38/1, TC40/2	Normal	15
	113		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	9
	125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	232
	137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	0
	138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	0
140		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	213	

14 1		B28	F28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	27
14 2		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	72
14 3		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
14 4		B28	G28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	234
14 5		B28	H28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
14 6		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
14 7		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
14 8		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
14 9		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	38
15 0		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	270
15 1		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
15 2		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
15 3		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	7
15 4		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	34
15 5		G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
15 6		G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
15 7		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
15 8		A28	G28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	491
15 9		A28	H28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
16 0		B28	D28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	289
16 1		B28	E28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	349
16 2		B28	D28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
16 3		B28	E28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
16 4		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
16 5		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
16 6		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	89
16 7		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
16 8		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	292
16 9		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	30
17 0		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	100
17 1		G28	H28	49/1, TC9/1, TC43/1	Normal	0
17 2		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
17 3		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0

174		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
175		A28	D28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
176		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
177		H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
178		B28	E28	48/1, Cf/1, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	120
179		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	146
180		A28	H28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
181		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	3
182		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
183		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	24
184		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	0
186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
187		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
188		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
189		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
190		G28	D28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	8
191		D28	F28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
192		D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
193		D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
194		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	230
196		D28	F28	51/1, Ff/1, F/1, xA/1, TC35/1	Normal	48
197		D28	G28	51/1, Ff/1, F/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	21
198		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	2
199		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	189
200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
201		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	4
202		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	6
203		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
205		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
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

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	84
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
252	F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
283	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
284	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
285	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
286	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
307	G28	C28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	42
317	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	607
318	C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
319	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
320	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
322	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	465
323	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	24
324	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	3
325	C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
330	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	243
331	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
332	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
334	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
342	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	1
343	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	37
364	B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
379	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
380	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
381	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
382	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
383	G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
384	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
385	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
386	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
387	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0

388	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
389	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
390	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
391	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
392	D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
393	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	15
394	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	26
395	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
396	H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
397	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
398	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
399	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
400	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
401	G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	30
402	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
403	G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
404	A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
405	A28	F28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
406	A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
407	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
408	H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
409	H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
410	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
411	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
412	F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
413	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
414	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
415	A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
417	A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
418	G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	68
423	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
424	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
425	E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0

428		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
431		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	265
439		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	101
440		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
441		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
442		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
443		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
444		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
445		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	44
446		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
447		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
448		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
449		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
450		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
451		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	123
452		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	126
453		A28	D28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
454		A28	E28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
455		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
456		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
457		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
458		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
459		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
460		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
461		A28	E28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
462		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	425
463		A28	F28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	73
464		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
465		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	472
466		A28	D28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	2
467		G28	A28	49/1, TC9/1, Af/1, A/2, Bcf/2, xB/1	Normal	73
468		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
469		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0

470	B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
471	B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	1
472	C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
473	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	365
474	E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	16
475	E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
476	D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	1
477	H28	A28	TC42/1, Af/1, A/2, Bcf/2, xB/1	Normal	0
478	F28	A28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, xB/1	Normal	9

## 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 (%)	Journey Time (s)	
07:30-08:30	A	1	(untitled)	E	292	2050	24	444	66	37	26.73	4.92	38.04	32.31	
		2	(untitled)	E	290	2050	24	444	65	38	27.97	5.42	40.61	33.72	
		3	(untitled)	E	393	2050	24	444	88	2	48.63	9.19	67.37	54.51	
		4	(untitled)	E	279	2050	24	444	63	43	25.92	4.55	32.68	31.93	
	Ac	1	(untitled)	D	792	2263	76	1471	54	67	1.44	0.34	2.05	8.62	
		2	(untitled)	D	816	2263	76	1421	57	57	8.00	9.06	56.43	17.49	
		3	(untitled)	D	169	2263	76	1471	11	683	4.68	2.33	15.21	11.27	
	Acf	1	(untitled)			1609	2263	120	2263	71	27	1.95	0.87	7.18	7.17
		2	(untitled)			169	2263	120	2263	7	1105	0.06	0.00	0.02	7.31
	Af	1	(untitled)			582	2050	120	2050	28	217	0.35	0.06	0.60	6.77

	2	(untitled)		393	2050	120	2050	19	369	0.21	0.02	0.25	6.59
	3	(untitled)		279	2050	120	2050	14	561	0.14	0.01	0.12	6.50
<b>B</b>	1	(untitled)	B	250	2050	14	273	92	-2	83.51	7.75	47.07	90.61
	2	(untitled)	B	273	2150	14	273	100	-10	288.80	24.03	142.16	296.09
	3	(untitled)	B	273	2100	14	273	100	-10	288.34	24.03	138.58	295.81
	4	(untitled)	B	269	2050	14	273	99	-9	229.71	19.73	110.76	242.00
<b>Bc</b>	1	(untitled)	A	660	2050	82	1435	46	96	5.83	4.16	17.99	17.79
	2	(untitled)	A	521	2050	82	1435	36	148	2.51	2.04	8.90	14.34
	3	(untitled)	A	320	2050	82	1435	22	304	0.36	0.03	0.14	12.07
<b>Bcf</b>	1	(untitled)		1084	2263	120	2263	48	88	0.73	0.22	2.02	4.90
	2	(untitled)		1106	2263	120	2263	49	84	0.76	0.23	2.14	5.42
	3	(untitled)		521	2263	120	2263	23	291	0.24	0.03	0.32	6.20
	4	(untitled)		320	2263	120	2263	14	536	0.13	0.01	0.11	6.39
<b>Bf</b>	1	(untitled)		524	1800	120	556	94	-4	213.41	43.69	110.27	240.75
	2	(untitled)		543	1800	120	555	98	-8	232.37	47.57	119.74	259.78
<b>C</b>	1	(untitled)	G	98	2100	50	910	11	736	10.38	1.46	6.91	24.92
	2	(untitled)	G	904	2200	50	953	95	-5	43.26	20.22	94.73	57.99
	3	(untitled)	G	584	2050	50	888	66	37	17.59	7.96	36.82	32.51
<b>Cf</b>	1	(untitled)		856	1965	120	1965	44	107	0.71	0.17	0.67	18.06
	2	(untitled)		730	1965	120	1965	37	142	0.54	0.11	0.43	18.04
<b>D</b>	1	(untitled)	B	522	2050	32	581	90	0	44.62	10.85	113.41	48.75
	2	(untitled)	B	492	1850	32	524	94	-4	59.03	12.21	127.68	63.16
	3	(untitled)	B	578	2250	32	638	91	-1	50.59	10.74	116.81	54.55
	4	(untitled)	B	615	2250	32	638	96	-7	72.19	15.22	157.89	76.35
<b>Dc</b>	1	(untitled)	A	674	2100	68	1225	55	64	10.67	6.98	78.79	16.78
	2	(untitled)	A	915	2100	68	1225	75	20	7.71	7.07	83.04	13.58
	3	(untitled)	A	615	2100	68	1225	50	79	9.32	7.26	88.81	14.97
	4	(untitled)	A	586	2100	68	1225	48	88	9.59	6.82	86.95	15.00
<b>Dcf</b>	1	(untitled)		645	2050	120	2050	31	186	0.40	0.07	0.63	5.31
	2	(untitled)		367	2100	120	2100	17	415	0.18	0.02	0.16	5.08
	3	(untitled)		674	2100	120	2100	32	180	0.40	0.08	0.67	7.11
	4	(untitled)		915	2100	120	2100	44	106	0.66	0.17	1.43	6.66

	5	(untitled)		615	2100	120	1975	31	189	0.58	1.84	16.02	7.01
	6	(untitled)		586	2050	120	2050	29	215	0.35	0.06	0.50	8.29
Df	1	(untitled)		1014	1900	120	1900	53	69	1.08	0.30	0.88	25.08
	2	(untitled)		1253	2250	120	1193	105	-14	121.04	57.45	165.16	145.04
Dxp	1	(untitled)	D	665	2050	103	1777	37	140	0.76	0.52	6.48	4.19
	2	(untitled)	D	367	2050	103	1777	21	336	0.31	2.93	34.96	3.92
Ec	1	(untitled)	F	767	2150	68	1254	61	47	8.47	6.41	73.54	12.23
	2	(untitled)	F	1107	2263	68	1320	84	7	9.99	7.46	88.57	13.63
	3	(untitled)	F	1085	2263	68	1320	82	9	8.30	7.09	87.12	11.81
	4	(untitled)	F	617	2250	68	1313	47	92	2.07	0.63	8.08	7.48
Ecf	1	(untitled)		856	2100	120	2099	41	121	0.59	4.78	59.81	4.04
	2	(untitled)		1255	2100	120	1986	63	42	1.64	2.86	35.46	5.12
	3	(untitled)		1107	2263	120	2197	50	79	0.91	2.25	27.60	5.37
	4	(untitled)		1085	2300	120	2218	49	84	1.19	6.01	72.78	5.89
	5	(untitled)		694	2300	120	2300	30	198	0.34	0.07	0.77	5.92
Ef	1	(untitled)		921	1900	120	1900	48	86	0.89	0.23	1.03	16.20
	2	(untitled)		516	1900	120	1900	27	231	0.35	0.05	0.23	15.66
Exp	1	(untitled)	L	856	2050	102	1760	49	85	1.99	4.91	54.42	5.88
	2	(untitled)	L	488	2050	102	1760	28	224	0.39	0.05	0.57	4.42
F	1	(untitled)	B	299	2100	24	455	66	37	28.93	4.69	31.68	35.32
	2	(untitled)	B	457	2100	24	455	100	-10	123.62	20.08	134.66	130.05
	3	(untitled)	B	85	2100	24	455	19	382	20.10	2.34	15.42	26.64
Fc	1	(untitled)	A	1254	2263	76	1471	85	6	13.34	10.02	31.43	32.40
	2	(untitled)	A	1231	2263	76	1408	87	3	14.21	14.67	46.48	33.08
	3	(untitled)	A	1188	2263	76	1442	82	9	9.14	12.03	38.38	28.52
Ff	1	(untitled)		756	1900	120	1900	40	126	0.63	0.13	0.27	33.71
	2	(untitled)		85	1900	120	1900	4	1912	0.04	0.00	0.00	33.09
G	1	(untitled)	F	286	2050	48	834	34	163	7.46	5.18	19.18	23.44
	2	(untitled)	F	307	2050	48	834	37	144	11.69	7.08	26.81	23.08
Gf	1	(untitled)		270	2050	120	2050	13	583	0.13	0.01	0.14	3.17
	2	(untitled)		246	2050	120	2050	12	650	0.12	0.01	0.12	3.12
xA	1	(untitled)		1457	2263	120	2058	71	27	2.54	10.16	25.43	19.77

	2	(untitled)		1277	2263	120	2263	56	59	1.03	0.36	0.91	18.28
<b>xB</b>	1	(untitled)		1531	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	6.83
<b>xC</b>	1	(untitled)		511	1900	120	1096	47	93	7.45	7.20	35.79	16.12
	2	(untitled)		436	1900	120	1167	37	141	7.41	7.10	35.22	16.11
<b>xD</b>	1	(untitled)		665	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.11
	2	(untitled)		367	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.16
<b>xE</b>	1	(untitled)		856	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		488	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
<b>xF</b>	1	(untitled)		824	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
<b>Cc1</b>	1	(untitled)	E	354	2050	44	774	46	97	18.75	5.82	34.89	25.32
<b>E1</b>	1	(untitled)	G	350	2050	30	547	64	41	25.26	5.34	38.40	31.26
	2	(untitled)	G	571	2200	30	587	97	-8	73.49	16.37	117.66	79.49
<b>Gf1</b>	1	(untitled)		77	697	120	697	11	713	0.32	0.01	0.08	6.06
<b>Cc2</b>	2	(untitled)	D	556	2150	46	846	66	37	12.38	4.41	27.70	22.27
	3	(untitled)	D	436	2050	46	820	53	69	11.31	3.80	23.97	22.24
	4	(untitled)	D	358	2150	46	852	42	114	22.40	6.59	41.92	28.42
	5	(untitled)	D	552	2050	46	816	68	33	11.64	6.42	40.78	20.06
	6	(untitled)	D	314	2050	46	820	38	135	1.36	0.12	0.78	9.02
	<b>E2</b>	3	(untitled)	H	270	2150	30	563	48	88	21.52	3.67	39.61
4		(untitled)	H	246	2050	30	547	45	100	21.02	3.33	35.21	25.09
<b>TC5</b>	2	(untitled)	A	1255	2263	101	1942	65	39	2.53	3.49	87.06	5.29
	3	(untitled)	A	1277	2263	101	1942	66	37	1.85	0.98	24.44	4.61
	4	(untitled)	C	0	1800	7	120	0	Unrestricted	0.00	0.00	0.00	0.00
<b>TC9</b>	1	(untitled)	B	563	1925	90	1492	38	138	5.02	5.32	33.39	16.03
	2	(untitled)	B	383	1966	90	1524	25	258	4.17	3.34	20.84	15.24
	3	(untitled)	B	279	1947	90	1509	18	387	3.82	2.27	14.07	14.94
<b>TC35</b>	1	(untitled)	A	202	1900	101	1631	12	626	1.09	1.46	34.70	3.98
<b>TC36</b>	1	(untitled)		44	1800	120	1800	2	3582	0.03	0.00	0.01	3.05
<b>TC37</b>	1	(untitled)	J	15	1850	105	1634	1	9705	0.89	0.06	0.76	4.08
<b>TC38</b>	1	(untitled)		15	255	120	255	6	1429	3.93	2.42	65.20	5.47
<b>TC39</b>	2	(untitled)		1255	2263	120	2263	55	62	0.99	0.34	5.63	3.53
	3	(untitled)		1277	2263	120	2263	56	59	1.03	0.36	6.30	3.42

	TC4 0	2	(untitled)		1270	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		1277	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC4 1	1	(untitled)	D	29	1850	8	139	21	331	55.61	2.44	25.71	59.55
	TC4 2	1	(untitled)	E	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC4 3	1	(untitled)		0	1800	120	1800	0	Unrestricted	0.00	0.00	0.00	0.00
	47	1	(untitled)		947	1300	120	1300	73	23	3.69	0.97	4.17	19.72
	48	1	(untitled)		1586	1965	120	1965	81	12	3.78	1.67	17.39	10.40
	49	1	(untitled)		613	1900	120	1900	32	179	0.45	0.08	1.68	3.60
		2	(untitled)		612	1900	120	1900	32	179	0.45	0.08	1.68	3.60
	50	1	(untitled)		1943	1900	120	1066	182	-51	819.32	456.36	5450.27	825.10
	51	1	(untitled)		841	1900	120	1900	44	103	0.75	0.18	2.69	5.25

## 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	112	33	41	1	7
	2	✓	2	B	40	47	7	1	7
	3		1	A	52	93	41	1	7
	4		2	B	100	107	7	1	7
769-2	1	✓	4	D,E,H,I	94	111	17	1	3
	2	✓	5	F,G,J,K	2	20	18	1	8
	3		4	D,E,H,I	34	51	17	1	3
	4		5	F,G,J,K	62	80	18	1	8
770-1	1	✓	1	A,C	12	44	32	1	5
	2	✓	2	B	51	67	16	1	7
	3		1	A,C	72	104	32	1	5
	4		2	B	111	7	16	1	7
770-2	1	✓	4	D	32	15	103	1	7
	2	✓	5	E	20	25	5	1	5
770-3	1	✓	7	F,I,J	59	88	29	1	2
	2	✓	9	G,H	99	107	8	1	1
	3		7	F,I,J	119	28	29	1	2
	4		9	G,H	39	47	8	1	1
770-4	1	✓	11	L	11	113	102	1	7
	2	✓	12	M	118	4	6	1	6
771-1	1	✓	1	A,C	64	96	32	1	9
	2	✓	3	B	107	119	12	1	7
	3		1	A,C	4	36	32	1	9
	4		3	B	47	59	12	1	7
771-2	1	✓	5	D	10	48	38	1	7
	2	✓	6	E	53	65	12	1	7
	3		5	D	70	108	38	1	7
	4		6	E	113	5	12	1	7

TC777-1	1	✓	1	A,B,F	19	108	89	1	6
	2	✓	2	A,C,F,G	113	0	7	1	7
	3	✓	5	D,H,I	7	13	6	1	6
TC777-2	1	✓	1	J	34	19	105	1	7
	2	✓	2	K	24	29	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	
770-1	K	K	5	300	0	0	Pedestrian	
	A	A	7	300	0	0	Traffic	
	B	B	7	300	0	0	Traffic	
770-2	C	C	5	300	0	0	Pedestrian	
	D	D	7	300	0	0	Traffic	
770-3	E	E	5	300	0	0	Pedestrian	
	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	
770-4	K	K	10	300	0	0	Pedestrian	
	L	L	7	300	0	0	Traffic	
771-1	M	M	6	300	0	0	Pedestrian	
	A	A	7	300	0	0	Traffic	
	B	B	7	300	0	0	Traffic	
771-2	C	C	9	300	0	0	Pedestrian	
	D	D	7	300	0	0	Traffic	
TC777-1	E	E	7	300	0	0	Traffic	
	F	F	7	300	0	1	Traffic	
	G	G	7	300	0	2	Traffic	
	H	H	7	300	0	0	Traffic	
	I	I	7	300	0	0	Traffic	
	J	J	5	300	0	0	Pedestrian	
	K	K	7	300	0	0	Pedestrian	
	TC777-2	L	L	6	300	0	0	Pedestrian
		M	M	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	✓	74.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	2	✓	76.69	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	3	✓	78.40	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	4	✓	80.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Ac	1	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	50
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	20	0
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Bc	1	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
Bcf	1	✓	62.77	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	62.62	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.46	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	62.38	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	20	0
	2	✓	122.73	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	20	0
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	20	0
	3	✓	52.87	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
	4	✓	55.42	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
Dc	1	✓	50.91	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	2	✓	48.96	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	3	✓	47.02	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	4	✓	45.07	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
Dcf	1	✓	65.43	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.28	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	65.54	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	67.69	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.13	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	6	✓	66.17	CTM	0.00	Normal	✓			Directly entered	2050	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	✓	45.75	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.11	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	1	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	4	✓	45.11	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	500
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	✓	46.95	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	47.51	CTM	0.00	Normal	✓			Directly entered	2300	100	100
	5	✓	48.55	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	1	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	1	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	1	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0

	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
Fc	1	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	500
	2	✓	151.80	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
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	✓	77.45	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	✓	121.44	NetworkDefault	0.00	Normal						100	100
	2	✓	122.12	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	20	0
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
Gf1	1	✓	47.81	NetworkDefault	0.00	Normal			✓			100	100
Cc2	2	✓	91.52	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	3	✓	91.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	4	✓	90.39	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	5	✓	90.48	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	6	✓	88.08	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
E2	3	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0

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	✓	92.21	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	5	0.00	0.00
		2	0	0	5	0.00	0.00
	2	1	0	0	64	0.00	0.00
		2	0	0	64	0.00	0.00
	3	1	0	0	6	0.00	0.00
		2	0	0	6	0.00	0.00

	4	1	0	0	66	0.00	0.00
		2	0	0	66	0.00	0.00
	5	1	0	0	66	0.00	0.00
		2	0	0	66	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	64	0.00	0.00
		2	0	0	64	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	40	0.00	0.00
		2	0	0	40	0.00	0.00
	10	1	0	0	52	0.00	0.00
		2	0	0	52	0.00	0.00
	11	1	0	0	44	0.00	0.00
		2	0	0	44	0.00	0.00
	12	1	0	0	42	0.00	0.00
		2	0	0	42	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	7	0.00	0.00
		2	0	0	7	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

Note: Auto Calculate disabled on this Local Matrix (Paths and Flow Allocation might not be up to date).

#### Average Journey Time (s) for Local Matrix: 1

	To								
	A28	B28	C28	D28	E28	F28	G28	H28	
From	A28	0.0	1196.4	1188.8	1438.8	1432.7	1497.1	1472.3	0.0
	B28	156.5	0.0	73.0	135.1	124.5	161.0	170.0	0.0
	C28	289.8	290.2	0.0	100.9	100.3	155.2	227.3	0.0
	D28	204.4	268.5	267.8	0.0	182.0	101.8	111.4	0.0
	E28	150.6	105.5	228.1	59.6	0.0	108.6	117.6	0.0
	F28	135.7	201.8	190.8	240.5	200.6	0.0	16.8	0.0
	G28	71.1	139.3	139.1	160.9	164.6	195.5	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)
32	C28	E28	182	100.26	526.66	0.00	0.00	0.00	182	100.26	526.66
36	C28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

41	E28	A28	487	154.29	693.45	0.00	0.00	0.00	487	154.29	693.45
49	C28	D28	340	100.87	514.00	0.00	0.00	0.00	340	100.87	514.00
50	E28	D28	57	59.65	370.08	0.00	0.00	0.00	57	59.65	370.08
68	E28	G28	114	117.70	737.43	0.00	0.00	0.00	114	117.70	737.43
92	E28	F28	33	108.55	644.57	0.00	0.00	0.00	33	108.55	644.57
100	E28	B28	246	105.01	623.35	0.00	0.00	0.00	246	105.01	623.35
102	A28	C28	403	1188.80	694.76	0.00	0.00	0.00	403	1188.80	694.76
103	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
105	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
107	A28	B28	53	1196.39	716.08	0.00	0.00	0.00	53	1196.39	716.08
110	E28	G28	96	117.38	731.08	0.00	0.00	0.00	96	117.38	731.08
112	F28	G28	15	16.83	149.60	0.00	0.00	0.00	15	16.83	149.60
113	F28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
115	B28	C28	9	72.66	556.36	0.00	0.00	0.00	9	72.66	556.36
125	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
130	G28	C28	232	141.91	769.88	0.00	0.00	0.00	232	141.91	769.88
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
140	B28	G28	213	170.15	1063.74	0.00	0.00	0.00	213	170.15	1063.74
141	B28	F28	27	161.00	970.89	0.00	0.00	0.00	27	161.00	970.89
142	B28	G28	72	168.38	1059.16	0.00	0.00	0.00	72	168.38	1059.16
143	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
144	B28	G28	234	170.30	1054.40	0.00	0.00	0.00	234	170.30	1054.40
145	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
146	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
147	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
148	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
149	B28	A28	38	159.61	1016.14	0.00	0.00	0.00	38	159.61	1016.14
150	E28	B28	270	105.93	625.89	0.00	0.00	0.00	270	105.93	625.89
151	B28	B28	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	7	201.81	750.62	0.00	0.00	0.00	7	201.81	750.62
154	E28	A28	34	113.40	694.61	0.00	0.00	0.00	34	113.40	694.61
155	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
156	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
157	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
158	A28	G28	491	1442.81	1196.15	0.00	0.00	0.00	491	1442.81	1196.15
159	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
160	B28	D28	289	135.16	698.10	0.00	0.00	0.00	289	135.16	698.10
161	B28	E28	349	125.57	713.02	0.00	0.00	0.00	349	125.57	713.02
162	B28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
163	B28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
164	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
165	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
166	B28	C28	89	73.00	553.47	0.00	0.00	0.00	89	73.00	553.47
167	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
168	G28	A28	292	69.96	386.06	0.00	0.00	0.00	292	69.96	386.06
169	G28	B28	30	139.64	788.72	0.00	0.00	0.00	30	139.64	788.72
170	G28	B28	100	139.21	789.10	0.00	0.00	0.00	100	139.21	789.10
171	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
172	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
173	F28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
174	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
175	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
176	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
177	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

178	B28	E28	120	123.08	710.57	0.00	0.00	0.00	120	123.08	710.57
179	B28	E28	146	123.07	711.82	0.00	0.00	0.00	146	123.07	711.82
180	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
181	F28	C28	3	190.84	729.68	0.00	0.00	0.00	3	190.84	729.68
182	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
183	A28	E28	24	1434.89	854.82	0.00	0.00	0.00	24	1434.89	854.82
184	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
185	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
186	A28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
187	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
188	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
189	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
190	G28	D28	8	179.17	910.75	0.00	0.00	0.00	8	179.17	910.75
191	D28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
192	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
193	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
194	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
195	D28	G28	230	111.61	744.99	0.00	0.00	0.00	230	111.61	744.99
196	D28	F28	48	101.80	652.14	0.00	0.00	0.00	48	101.80	652.14
197	D28	G28	21	109.04	740.41	0.00	0.00	0.00	21	109.04	740.41
198	D28	A28	2	200.37	704.54	0.00	0.00	0.00	2	200.37	704.54
199	D28	B28	189	280.27	1101.39	0.00	0.00	0.00	189	280.27	1101.39
200	D28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
201	F28	E28	4	226.10	884.60	0.00	0.00	0.00	4	226.10	884.60
202	F28	D28	6	240.51	872.14	0.00	0.00	0.00	6	240.51	872.14
203	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
205	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
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
246	E28	C28	84	228.15	1066.04	0.00	0.00	0.00	84	228.15	1066.04
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
252	F28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
283	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
284	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
285	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
286	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
307	G28	C28	42	141.91	769.88	0.00	0.00	0.00	42	141.91	769.88
317	C28	G28	607	275.83	870.70	0.00	0.00	0.00	607	275.83	870.70
318	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
319	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
320	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
322	C28	G28	465	164.36	880.26	0.00	0.00	0.00	465	164.36	880.26
323	C28	F28	24	155.21	787.41	0.00	0.00	0.00	24	155.21	787.41
324	C28	G28	3	163.07	875.68	0.00	0.00	0.00	3	163.07	875.68
325	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
330	C28	A28	243	285.07	834.99	0.00	0.00	0.00	243	285.07	834.99
331	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
332	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
334	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
342	C28	B28	1	299.20	756.38	0.00	0.00	0.00	1	299.20	756.38
343	C28	B28	37	289.95	753.20	0.00	0.00	0.00	37	289.95	753.20
364	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
379	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
380	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
381	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

382	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
383	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
384	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
385	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
386	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
387	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
388	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
389	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
390	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
391	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
392	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
393	D28	B28	15	216.24	1451.24	0.00	0.00	0.00	15	216.24	1451.24
394	D28	B28	26	214.82	1448.06	0.00	0.00	0.00	26	214.82	1448.06
395	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
396	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
397	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
398	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
399	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
400	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
401	G28	F28	30	195.54	1180.56	0.00	0.00	0.00	30	195.54	1180.56
402	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
403	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
404	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
405	A28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
406	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
407	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
408	H28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
409	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
410	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
411	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
412	F28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
413	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
414	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
415	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
417	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
418	G28	C28	68	127.63	767.78	0.00	0.00	0.00	68	127.63	767.78
423	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
424	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
425	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
428	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
431	D28	C28	265	267.78	1080.45	0.00	0.00	0.00	265	267.78	1080.45
439	G28	E28	101	180.71	923.21	0.00	0.00	0.00	101	180.71	923.21
440	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
441	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
442	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
443	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
444	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
445	D28	E28	44	181.97	1231.65	0.00	0.00	0.00	44	181.97	1231.65
446	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
447	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
448	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
449	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
450	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
451	G28	D28	123	159.75	910.65	0.00	0.00	0.00	123	159.75	910.65
452	G28	E28	126	151.83	925.57	0.00	0.00	0.00	126	151.83	925.57
453	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

454	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
455	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
456	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
457	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
458	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
459	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
460	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
461	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
462	A28	G28	425	1506.29	1205.17	0.00	0.00	0.00	425	1506.29	1205.17
463	A28	F28	73	1497.14	1112.32	0.00	0.00	0.00	73	1497.14	1112.32
464	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
465	A28	E28	472	1432.55	852.36	0.00	0.00	0.00	472	1432.55	852.36
466	A28	D28	2	1438.81	839.90	0.00	0.00	0.00	2	1438.81	839.90
467	G28	A28	73	75.69	388.25	0.00	0.00	0.00	73	75.69	388.25
468	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
469	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
470	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
471	B28	A28	1	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00
472	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
473	C28	A28	365	292.92	831.37	0.00	0.00	0.00	365	292.92	831.37
474	E28	A28	16	119.50	690.99	0.00	0.00	0.00	16	119.50	690.99
475	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
476	D28	A28	1	211.38	700.92	0.00	0.00	0.00	1	211.38	700.92
477	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
478	F28	A28	9	135.71	350.15	0.00	0.00	0.00	9	135.71	350.15

## Final Prediction Table

### Traffic Stream Results

Arm	Traffic Stream	Name	Traffic node	SIGNALS		FLOWS		PERFORMANCE				PER PCU		QUES	WEIGHTS		PENALTIES	P.I.	
				Cont roller stream	Phase	Calculate d flow entering (PCU/hr)	Calcu lated sat flow (PCU/hr)	Actual gre en (s (per cycle))	Waste d time total (s (per cycle))	Degree of saturation (%)	Practi cal reserve capacity (%)	Journe yTime (s)	Me an Delay per Veh (s)	Me an stops per Veh (%)	Me an max que ue (PCU)	Delay weighting multiplier (%)	Stop weighing multiplier (%)	Cost of traffic penalties (£ per hr)	P.I.
A	1	(untitled)	6	771-2	E	292	2050	24	4.00	66	37	32.31	26.73	97.35	4.92	20	0	0.00	6.16
	2	(untitled)	6	771-2	E	290	2050	24	4.00	65	38	33.72	27.97	99.27	5.42	20	0	0.00	6.40
	3	(untitled)	6	771-2	E	393	2050	24	2.00	88	2	54.51	48.63	131.52	9.19	20	0	0.00	15.08
	4	(untitled)	6	771-2	E	279	2050	24	3.00	63	43	31.93	25.92	95.66	4.55	20	0	0.00	5.71
Ac	1	(untitled)	6	771-2	D	792	2263	76	10.00	54	67	8.62	1.44	2.57	0.34	100	500	0.00	7.77
	2	(untitled)	6	771-2	D	816	2263	76	12.64	57	57	17.49	8.00	63.68	9.06	100	50	0.00	30.19
	3	(untitled)	6	771-2	D	169	2263	76	38.00	11	683	11.27	4.68	48.05	2.33	100	500	0.00	16.15
Ac f	1	(untitled)	6			1609	2263	120	28.00	71	27	7.17	1.95	0.00	0.87	100	100	0.00	12.35
	2	(untitled)	6			169	2263	120	60.00	7	1105	7.31	0.06	0.00	0.00	100	100	0.00	0.04

Af	1	(untitled)	6			582	2050	120	25.00	28	217	6.77	0.35	0.00	0.06	100	100	0.00	0.80
	2	(untitled)	6			393	2050	120	25.00	19	369	6.59	0.21	0.00	0.02	100	100	0.00	0.32
	3	(untitled)	6			279	2050	120	27.00	14	561	6.50	0.14	0.00	0.01	100	100	0.00	0.15
B	1	(untitled)	1	769-1	B	250	2050	14	0.00	92	-2	90.61	83.51	16.9.75	7.75	20	0	0.00	16.49
	2	(untitled)	1	769-1	B	273 <	2150	14	0.74	100	-10	296.09	28.8.80	30.8.76	24.03+	20	0	0.00	62.27
	3	(untitled)	1	769-1	B	273 <	2100	14	0.38	100	-10	295.81	28.8.34	30.8.04	24.03+	20	0	0.00	62.17
	4	(untitled)	1	769-1	B	269 <	2050	14	0.00	99	-9	242.00	22.9.71	34.2.88	19.73+	20	0	0.00	48.84
Bc	1	(untitled)	1	769-1	A	660	2050	82	32.00	46	96	17.79	5.83	29.95	4.16	100	500	0.00	37.20
	2	(untitled)	1	769-1	A	521	2050	82	46.00	36	148	14.34	2.51	16.60	2.04	100	500	0.00	14.78
	3	(untitled)	1	769-1	A	320	2050	82	55.00	22	304	12.07	0.36	0.00	0.03	100	500	0.00	0.45
Bc f	1	(untitled)	1			1084	2263	120	30.00	48	88	4.90	0.73	0.00	0.22	100	100	0.00	3.13
	2	(untitled)	1			1106	2263	120	30.00	49	84	5.42	0.76	0.00	0.23	100	100	0.00	3.32
	3	(untitled)	1			521	2263	120	56.00	23	291	6.20	0.24	0.00	0.03	100	100	0.00	0.49
	4	(untitled)	1			320	2263	120	91.00	14	536	6.39	0.13	0.00	0.01	100	100	0.00	0.17
Bf	1	(untitled)	1			524 <	1800	120	82.94	94	-4	240.75	21.3.41	40.6.20	43.69+	100	100	0.00	467.44
	2	(untitled)	1			543 <	1800	120	82.98	98	-8	259.78	23.2.37	41.9.78	47.57+	100	100	0.00	526.10
C	1	(untitled)	2	769-2	G	98	2100	50	0.00	11	736	24.92	10.38	57.06	1.46	20	0	0.00	0.80
	2	(untitled)	2	769-2	G	904	2200	50	0.00	95	-5	57.99	43.26	12.8.30	20.22	20	0	0.00	30.85
	3	(untitled)	2	769-2	G	584	2050	50	0.00	66	37	32.51	17.59	78.29	7.96	20	0	0.00	8.11
Cf	1	(untitled)	2			856	1965	120	0.00	44	107	18.06	0.71	0.00	0.17	100	100	0.00	2.38
	2	(untitled)	2			730	1965	120	0.00	37	142	18.04	0.54	0.00	0.11	100	100	0.00	1.56
D	1	(untitled)	3	770-1	B	522 <	2050	32	0.00	90	0	48.75	44.62	11.8.73	10.85+	20	0	0.00	18.37
	2	(untitled)	3	770-1	B	492 <	1850	32	0.00	94	-4	63.16	59.03	13.4.34	12.21+	20	0	0.00	22.91
	3	(untitled)	3	770-1	B	578 <	2250	32	0.00	91	-1	54.55	50.59	10.7.93	10.74+	20	0	0.00	23.05
	4	(untitled)	3	770-1	B	615 <	2250	32	0.00	96	-7	76.35	72.19	13.6.64	15.22+	20	0	0.00	35.02
Dc	1	(untitled)	3	770-1	A	674	2100	68	8.00	55	64	16.78	10.67	60.59	6.98	100	500	0.00	53.98
	2	(untitled)	3	770-1	A	915	2100	68	8.00	75	20	13.58	7.71	32.71	7.07	100	500	0.00	46.59
	3	(untitled)	3	770-1	A	615	2100	68	8.00	50	79	14.97	9.32	72.17	7.26	100	500	0.00	50.47

	4	(untitled)	3	770-1	A	586	2100	68	12.00	48	88	15.00	9.59	70.84	6.82	100	500	0.00	48.23
Dc f	1	(untitled)	3			645	2050	120	32.00	31	186	5.31	0.40	0.00	0.07	100	100	0.00	1.03
	2	(untitled)	3			367	2100	120	95.00	17	415	5.08	0.18	0.00	0.02	100	100	0.00	0.26
	3	(untitled)	3			674	2100	120	41.00	32	180	7.11	0.40	0.00	0.08	100	100	0.00	1.08
	4	(untitled)	3			915	2100	120	39.00	44	106	6.66	0.66	0.00	0.17	100	100	0.00	2.39
	5	(untitled)	3			615	2100	120	42.12	31	189	7.01	0.58	5.10	1.84	100	100	0.00	2.11
	6	(untitled)	3			586	2050	120	46.00	29	215	8.29	0.35	0.00	0.06	100	100	0.00	0.81
Df	1	(untitled)	3-2			1014	1900	120	0.00	53	69	25.08	1.08	0.00	0.30	100	100	0.00	4.33
	2	(untitled)	3-2			1253 <	2250	120	56.40	105	-14	145.04	12.10	22.278	57.45+	100	100	0.00	631.56
Dx P	1	(untitled)	3-2	770-2	D	665	2050	103	16.00	37	140	4.19	0.76	2.10	0.52	100	100	0.00	2.45
	2	(untitled)	3-2	770-2	D	367	2050	103	68.00	21	336	3.92	0.31	1.75	2.93	100	100	0.00	0.66
Ec	1	(untitled)	4	770-3	F	767	2150	68	8.00	61	47	12.23	8.47	47.22	6.41	100	500	0.00	83.77
	2	(untitled)	4	770-3	F	1107	2263	68	8.00	84	7	13.63	9.99	32.29	7.46	100	500	0.00	101.05
	3	(untitled)	4	770-3	F	1085	2263	68	6.00	82	9	11.81	8.30	24.94	7.09	100	500	0.00	78.95
	4	(untitled)	4	770-3	F	617	2250	68	28.00	47	92	7.48	2.07	6.16	0.63	100	500	0.00	7.42
Ec f	1	(untitled)	4			856	2100	120	24.07	41	121	4.04	0.59	1.12	4.78	100	100	0.00	2.31
	2	(untitled)	4			1255	2100	120	30.52	63	42	5.12	1.64	4.26	2.86	100	100	0.00	9.85
	3	(untitled)	4			1107	2263	120	27.50	50	79	5.37	0.91	2.77	2.25	100	100	0.00	4.70
	4	(untitled)	4			1085	2300	120	32.26	49	84	5.89	1.19	8.07	6.01	100	100	0.00	6.97
	5	(untitled)	4			694	2300	120	64.00	30	198	5.92	0.34	0.00	0.07	100	100	0.00	0.92
Ef	1	(untitled)	4			921	1900	120	0.00	48	86	16.20	0.89	0.00	0.23	100	100	0.00	3.23
	2	(untitled)	4			516	1900	120	0.00	27	231	15.66	0.35	0.00	0.05	100	100	0.00	0.72
Ex P	1	(untitled)	4-2	770-4	L	856	2050	102	18.00	49	85	5.88	1.99	13.71	4.91	100	100	0.00	10.50
	2	(untitled)	4-2	770-4	L	488	2050	102	41.00	28	224	4.42	0.39	0.00	0.05	100	100	0.00	0.76
F	1	(untitled)	5	771-1	B	299	2100	24	0.00	66	37	35.32	28.93	93.72	4.69	20	0	0.00	6.82
	2	(untitled)	5	771-1	B	457 <	2100	24	0.00	100	-10	130.05	12.36	17.625	20.08+	20	0	0.00	44.57
	3	(untitled)	5	771-1	B	85	2100	24	0.00	19	382	26.64	20.10	79.84	2.34	20	0	0.00	1.35
Fc	1	(untitled)	5	771-1	A	1254	2263	76	8.00	85	6	32.40	13.34	48.94	10.02	100	500	0.00	117.40
	2	(untitled)	5	771-1	A	1231	2263	76	7.33	87	3	33.08	14.21	66.38	14.67	100	500	0.00	137.36
	3	(untitled)	5	771-1	A	1188	2263	76	13.51	82	9	28.52	9.14	65.20	12.03	100	500	0.00	103.67
Ff	1	(untitled)	5			756	1900	120	0.00	40	126	33.71	0.63	0.00	0.13	100	100	0.00	1.87
	2	(untitled)	5			85	1900	120	0.00	4	1912	33.09	0.04	0.00	0.00	100	100	0.00	0.01

G	1	(untitled)	2	769-2	F	286	2050	48	27.17	34	163	23.44	7.46	88.51	5.18	100	500	0.00	30.01
	2	(untitled)	2	769-2	F	307	2050	48	3.17	37	144	23.08	11.69	90.80	7.08	100	500	0.00	58.94
Gf	1	(untitled)	4			270	2050	120	88.00	13	583	3.17	0.13	0.00	0.01	100	100	0.00	0.14
	2	(untitled)	4			246	2050	120	88.00	12	650	3.12	0.12	0.00	0.01	100	100	0.00	0.12
xA	1	(untitled)	10			1457	2263	120	30.89	71	27	19.77	2.54	6.74	10.16	100	100	0.00	17.78
	2	(untitled)	10			1277	2263	120	30.00	56	59	18.28	1.03	0.00	0.36	100	100	0.00	5.18
xB	1	(untitled)				1531	Unrestricted	120	0.00	0	Unrestricted	6.83	0.00	0.00	0.00	100	100	0.00	0.00
xC	1	(untitled)				511	1900	120	84.75	47	93	16.12	7.45	62.15	7.20	100	100	0.00	25.22
	2	(untitled)				436	1900	120	75.30	37	141	16.11	7.41	59.02	7.10	100	100	0.00	21.02
xD	1	(untitled)				665	Unrestricted	120	14.00	0	Unrestricted	9.11	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				367	Unrestricted	120	76.00	0	Unrestricted	9.16	0.00	0.00	0.00	100	100	0.00	0.00
xE	1	(untitled)				856	Unrestricted	120	7.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				488	Unrestricted	120	30.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
xF	1	(untitled)				824	Unrestricted	120	2.00	0	Unrestricted	12.19	0.00	0.00	0.00	100	100	0.00	0.00
Cc 1	1	(untitled)	2	769-2	E	354	2050	44	9.69	46	97	25.32	18.75	86.12	5.82	100	100	0.00	38.14
E1	1	(untitled)	4	770-3	G	350	2050	30	0.00	64	41	31.26	25.26	88.18	5.34	20	0	0.00	6.97
	2	(untitled)	4	770-3	G	571 <	2200	30	0.00	97	-8	79.49	73.49	155.64	16.37+	20	0	0.00	33.10
Gf 1	1	(untitled)	4			77	697	120	64.00	11	713	6.06	0.32	0.00	0.01	100	100	0.00	0.10
Cc 2	2	(untitled)	2	769-2	D	556	2150	46	12.79	66	37	22.27	12.38	43.29	4.41	100	500	0.00	46.92
	3	(untitled)	2	769-2	D	436	2050	46	21.00	53	69	22.24	11.31	47.95	3.80	100	500	0.00	32.58
	4	(untitled)	2	769-2	D	358	2150	46	27.44	42	114	28.42	22.40	105.71	6.59	100	500	0.00	108.49
	5	(untitled)	2	769-2	D	552	2050	46	15.26	68	33	20.06	11.64	59.67	6.42	100	500	0.00	69.41
	6	(untitled)	2	769-2	D	314	2050	46	26.00	38	135	9.02	1.36	0.00	0.12	100	500	0.00	1.69
E2	3	(untitled)	4	770-3	H	270	2150	30	0.56	48	88	25.52	21.52	81.48	3.67	20	0	0.00	4.58
	4	(untitled)	4	770-3	H	246	2050	30	0.00	45	100	25.09	21.02	81.07	3.33	20	0	0.00	4.08
TC5	2	(untitled)	TC 771-6	TC77 7-1	A	1255	2263	101	16.00	65	39	5.29	2.53	8.33	3.49	100	100	0.00	13.81
	3	(untitled)	TC 771-6	TC77 7-1	A	1277	2263	101	20.00	66	37	4.61	1.85	2.29	0.98	100	100	0.00	9.67
	4	(untitled)	TC 771-6	TC77 7-1	C	0	1800	7	8.00	0	Unrestricted	0.00	0.00	0.00	0.00	100	100	0.00	0.00
TC9	1	(untitled)	TC 771-6	TC77 7-1	B	563	1925	90	0.00	38	138	16.03	5.02	28.35	5.32	100	100	0.00	13.16

	2	(untitled)	TC 771-6	TC77 7-1	B	383	1966	90	0.00	25	258	15.24	4.17	26.11	3.34	100	100	0.00	7.56
	3	(untitled)	TC 771-6	TC77 7-1	B	279	1947	90	0.00	18	387	14.94	3.82	24.39	2.27	100	100	0.00	5.06
T C3 5	1	(untitled)	TC 771-6	TC77 7-1	A	202	1900	101	25.00	12	626	3.98	1.09	9.11	1.46	100	100	0.00	1.10
T C3 6	1	(untitled)	TC 771-6			44	1800	120	120.00	2	3582	3.05	0.03	0.00	0.00	100	100	0.00	0.00
T C3 7	1	(untitled)	TC 771-6	TC77 7-2	J	15	1850	105	105.00	1	9705	4.08	0.89	11.68	0.06	100	100	0.00	0.11
T C3 8	1	(untitled)	TC 771-6			15	255	120	58.00	6	1429	5.47	3.93	58.01	2.42	100	100	0.00	0.54
T C3 9	2	(untitled)	TC 771-6			1255	2263	120	33.00	55	62	3.53	0.99	0.00	0.34	100	100	0.00	4.90
	3	(untitled)	TC 771-6			1277	2263	120	37.00	56	59	3.42	1.03	0.00	0.36	100	100	0.00	5.18
T C4 0	2	(untitled)	TC 771-6			1270	Unrestricted	120	13.00	0	Unrestricted	4.23	0.00	0.00	0.00	100	100	0.00	0.00
	3	(untitled)	TC 771-6			1277	Unrestricted	120	20.00	0	Unrestricted	4.02	0.00	0.00	0.00	100	100	0.00	0.00
T C4 1	1	(untitled)	TC 771-6	TC77 7-1	D	29	1850	8	7.00	21	331	59.55	55.61	95.32	2.44	100	100	0.00	7.32
T C4 2	1	(untitled)	TC 771-6	TC77 7-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
T C4 3	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			947	1300	120	24.00	73	23	19.72	3.69	0.00	0.97	100	100	0.00	13.77
48	1	(untitled)	2			1586	1965	120	0.00	81	12	10.40	3.78	0.00	1.67	100	100	0.00	23.67
49	1	(untitled)	TC 771-6			613	1900	120	0.00	32	179	3.60	0.45	0.00	0.08	100	100	0.00	1.09
	2	(untitled)	TC 771-6			612	1900	120	0.00	32	179	3.60	0.45	0.00	0.08	100	100	0.00	1.09
50	1	(untitled)	1			1943 <	1900	120	52.65	182	-51	825.10	819.32	462.87	456.36 +	100	100	0.00	634.124
51	1	(untitled)	4-2			841	1900	120	0.00	44	103	5.25	0.75	0.00	0.18	100	100	0.00	2.49

### 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 queue (Ped)	Delay weighting (%)	Cost of traffic penalties (£ per hr)	P.I.	
1	1	(untitled)	3-2	770-2	E	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00	

	2	(untitled)	3-2	770-2	E	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
2	1	(untitled)	3	770-1	C	0	11000	64	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3	770-1	C	0	11000	64	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
3	1	(untitled)	4-2	770-4	M	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4-2	770-4	M	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
4	1	(untitled)	4	770-3	J	0	11000	66	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	J	0	11000	66	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
5	1	(untitled)	4	770-3	I	0	11000	66	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	I	0	11000	66	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	64	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	5	771-1	C	0	11000	64	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	40	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	J	0	11000	40	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
10	1	(untitled)	2	769-2	K	0	11000	52	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	K	0	11000	52	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
11	1	(untitled)		769-2	H	0	11000	44	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		769-2	H	0	11000	44	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
12	1	(untitled)	2	769-2	I	0	11000	42	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	I	0	11000	42	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	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	G	0	11000	7	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)
<b>Normal traffic</b>	6839.36	954.54	7.17	771.43	9099.54	913.87	0.00	10013.40
<b>Bus</b>								
<b>Tram</b>								
<b>Pedestrians</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	6839.36	954.54	7.17	771.43	9099.54	913.87	0.00	10013.40

- < = 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  
© Copyright TRL Limited, 2019

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

**The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution**

**Filename:** M62 JN 28 CRF Scheme\_Mar 20\_PF\_Sept 20\_RevC\_mitigation  
DS\_optA+D\_2032+Dev\_03.t16  
**Path:** P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\Transyt\Option A+D  
**Report generation date:** 24/01/2021 17:24:07

- » Network Diagrams
- « A16 - PM Base 2032+Dev : D16 - PM 2032+Dev, :
- » Summary
- » Network Options
- » Traffic Nodes
- » Arms and Traffic Streams
- » Pedestrian Crossings
- » Local OD Matrix - Local Matrix: 1
- » Signal Timings
- » Results - Link
- » Results - Traffic Stream
- » Data Entry - Stage Start and End
- » Data Entry - Phase
- » Data Entry - Traffic Stream
- » Data entry - Link
- » Results - Pedestrian
- » Collections
- » Point to Point Journey Time
- » Final Prediction Table

## Summary of network performance

	Set ID	Cycle time (s)	PI (£ per hr)	Total delay (PCU-hr/hr)	Highest DOS	Number oversaturated
	PM Base 2032+Dev - PM 2032+Dev					
Network	A16 D16	60	82179.71	641.29	136% (TS 51/1)	22 (15%)

*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-Ambler	Display End-Of-Green Ambler	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

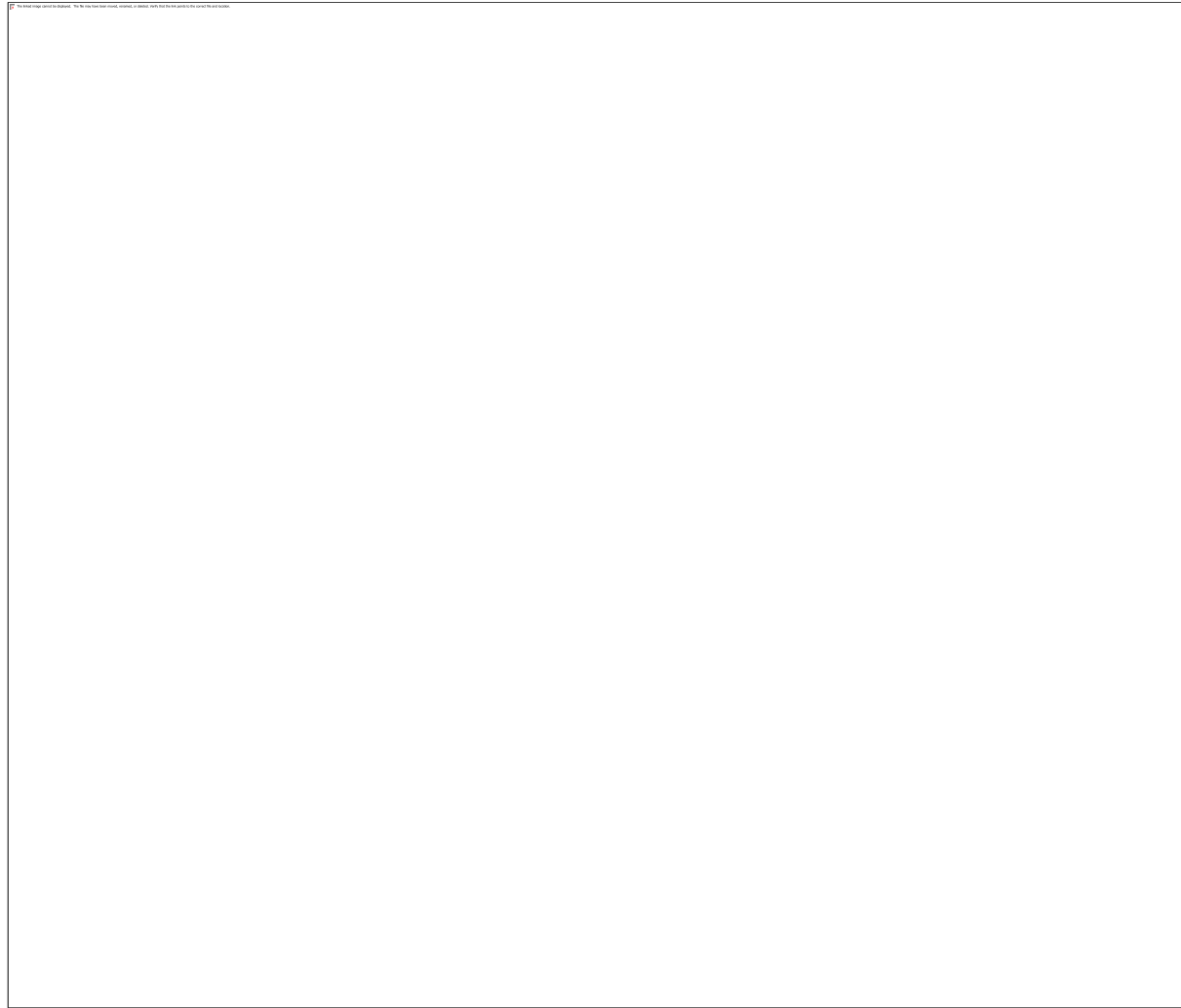
## Sorting

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+Dev D16 - PM 2032+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: Auto Calculate option is switched off - OD flows will not be allocated automatically to the network.
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)	Modeling 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 17:22:46	24/01/2021 17:23:01	15.92	16:30	60	82179.71	641.29	136.43	51/1	22	15	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+Dev			✓	D16		✓	

## Demand Set Details

Scenario name	Time Period name	Description	Composite	Demand sets	Start time (HH:mm)	Locked	Run automatically
PM 2032+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 <sup>-2</sup> )	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

## Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms <sup>-2</sup> )	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		✓	769-1, 769-2, 770-1, 770-2, 770-3, 770-4, 771-1, 771-2, 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-calculated 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	✓	74.35	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.69	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.40	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.11	✓	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)		✓	62.77	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	62.62	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.46	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.38	✓	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	✓	122.73	✓	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
	4	(untitled)	Leeds/M62/Wake	✓	55.42	✓	Directly entered	2250		2250	✓		Normal
Dc	1	(untitled)	Brad	✓	50.91	✓	Directly entered	2100		2100	✓		Normal
	2	(untitled)	Brad/M62W	✓	48.96	✓	Directly entered	2100		2100	✓		Normal
	3	(untitled)	Leeds	✓	47.02	✓	Directly entered	2100		2100	✓		Normal
	4	(untitled)	Leeds/M62E	✓	45.07	✓	Directly entered	2100		2100	✓		Normal
Dcf	1	(untitled)		✓	65.43	✓	Directly entered	2050		2050			Normal
	2	(untitled)		✓	65.28	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	65.54	✓	Directly entered	2100		2100			Normal
	4	(untitled)		✓	67.69	✓	Directly entered	2100		2100			Normal
	5	(untitled)		✓	66.13	✓	Directly entered	2100		2100			Normal
	6	(untitled)		✓	66.17	✓	Directly entered	2050		2050			Normal
Df	1	(untitled)			200.00	✓	Sum of lanes	1900					Normal
	2	(untitled)			200.00	✓	Directly entered	2250					Normal
Dxp	1	(untitled)		✓	45.75	✓	Directly entered	2050			✓		Normal
	2	(untitled)		✓	48.11	✓	Directly entered	2050			✓		Normal
Ec	1	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal
	4	(untitled)	M62E	✓	45.11	✓	Directly entered	2250		2250	✓		Normal
Ecf	1	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	46.95	✓	Directly entered	2263		2263			Normal
	4	(untitled)		✓	47.51	✓	Directly entered	2300		2300			Normal
	5	(untitled)		✓	48.55	✓	Directly entered	2300		2300			Normal
Ef	1	(untitled)		✓	127.54	✓	Directly entered	1900					Normal

	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal
Exp	1	(untitled)		✓	51.83	✓	Directly entered	2050		2100	✓		Normal
	2	(untitled)		✓	53.71	✓	Directly entered	2050		2100	✓		Normal
F	1	(untitled)	Leeds	✓	85.13	✓	Directly entered	2100		2100	✓		Normal
	2	(untitled)	Wake	✓	85.72	✓	Directly entered	2100		2100	✓		Normal
	3	(untitled)	Dews/Brad	✓	87.25	✓	Directly entered	2100		2100	✓		Normal
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)		✓	77.45								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)		✓	121.44								Normal
	2	(untitled)		✓	122.12								Normal
xE	1	(untitled)		✓	173.89								Normal
	2	(untitled)		✓	173.83								Normal
xF	1	(untitled)		✓	162.53								Normal
Cc1	1	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal
E1	1	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal
Gf1	1	(untitled)		✓	47.81						✓		Normal
Cc2	2	(untitled)	Dews	✓	91.52	✓	Directly entered	2150		2100	✓		Normal
	3	(untitled)	Brad/M62W	✓	91.11	✓	Directly entered	2050		2050	✓		Normal
	4	(untitled)	Dews/Brad	✓	90.39	✓	Directly entered	2150		2100	✓		Normal









	2	1	(untitled)		✓	N/A	Average	0	3.70	✓	0	9999.00		1966	
	3	1	(untitled)		✓	N/A	Average	0	3.50	✓	0	9999.00		1947	
TC3	5	1	1	(untitled)											
TC3	6	1	1	(untitled)										1800	
TC3	7	1	1	(untitled)											
TC3	8	1	1	(untitled)											
TC3	9	2	1	(untitled)											
		3	1	(untitled)											
TC4	0	2	1	(untitled)											
		3	1	(untitled)											
TC4	1	1	1	(untitled)											
TC4	2	1	1	(untitled)		✓	N/A	Average	0	3.00	✓	0	9.44	✓	1771
TC4	3	1	1	(untitled)										1800	
47	1	1	1	(untitled)											
48	1	1	1	(untitled)										1965	
49	1	2	1	(untitled)											
	2	1	1	(untitled)											
50	1	1	1	(untitled)										1900	
51	1	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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Ac	1	CTM	500	100	100		0.00	✓	16.50	9999.00				
	2	CTM	500	100	100		0.00	✓	16.50	9999.00				
	3	CTM	500	100	100		0.00	✓	16.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							

	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Bc	1	CTM	500	100	100		0.00	✓	22.50	9999.00				
	2	CTM	500	100	100		0.00	✓	22.50	9999.00				
	3	CTM	500	100	100		0.00	✓	22.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
Cf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
D	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Dc	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
Dcf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
	6	CTM	100	100	100		0.00							
Df	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
Dx P	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
Ec	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
Ecf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
Ef	1	NetworkDe fault	100	100	100		0.00							

	2	NetworkDe fault	100	100	100		0.00								
Exp	1	CTM	100	100	100		0.00								
	2	CTM	100	100	100		0.00								
F	1	CTM	0	20	100		0.00								
	2	CTM	0	20	100		0.00								
	3	CTM	0	20	100		0.00								
Fc	1	CTM	500	100	100		0.00	✓	32.0 0	9999. 00					
	2	CTM	500	100	100		0.00	✓	32.0 0	9999. 00					
	3	CTM	500	100	100		0.00	✓	32.0 0	9999. 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	500	100	100		0.00	✓	26.0 0	9999. 00					
	2	CTM	500	100	100		0.00	✓	26.0 0	9999. 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	NetworkDe fault	100	100	100		0.00								
xC	1	CTM	100	100	100		0.00								
	2	CTM	100	100	100		0.00								
xD	1	NetworkDe fault	100	100	100		0.00								
	2	NetworkDe fault	100	100	100		0.00								
xE	1	NetworkDe fault	100	100	100		0.00								
	2	NetworkDe fault	100	100	100		0.00								
xF	1	NetworkDe fault	100	100	100		0.00								
Cc1	1	CTM	100	100	100		0.00								
E1	1	CTM	0	20	100		0.00								
	2	CTM	0	20	100		0.00								
Gf1	1	NetworkDe fault	100	100	100		0.00								
Cc2	2	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
	3	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
	4	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
	5	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
	6	CTM	500	100	100		0.00	✓	15.0 0	9999. 00					
E2	3	CTM	0	20	100		0.00								
	4	CTM	0	20	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	NetworkDe fault	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	NetworkDe fault	100	100	100	0.00								
TC 43	1	NetworkDe fault	100	100	100	0.00								
47	1	CTM	100	100	100	0.00								
48	1	NetworkDe fault	100	100	100	0.00								
49	1	NetworkDe fault	100	100	100	0.00								
	2	NetworkDe fault	100	100	100	0.00								
50	1	NetworkDe fault	100	100	100	0.00								
51	1	NetworkDe fault	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	759	759
	2	758	758
	3	756	756
	4	477	477
Ac	1	680	680
	2	699	699
	3	373	373
Acf	1	1379	1379
	2	373	373
Af	1	1518	1518
	2	756	756
	3	477	477
B	1	439	439

	2	327	327
	3	312	312
	4	333	333
Bc	1	1083	1083
	2	1099	1099
	3	507	507
Bcf	1	1440	1440
	2	1457	1457
	3	1099	1099
	4	507	507
Bf	1	765	765
	2	645	645
C	1	99	99
	2	692	692
	3	280	280
Cf	1	623	623
	2	448	448
D	1	411	411
	2	223	223
	3	336	336
	4	373	373
Dc	1	782	782
	2	881	881
	3	389	389
	4	370	370
Dcf	1	850	850
	2	1132	1132
	3	782	782
	4	881	881
	5	389	389
	6	370	370
Df	1	634	634
	2	709	709
Dxp	1	850	850
	2	1132	1132
Ec	1	693	693
	2	612	612
	3	672	672
	4	351	351
Ecf	1	887	887
	2	1187	1187
	3	612	612
	4	672	672
	5	407	407
Ef	1	876	876
	2	617	617
Exp	1	887	887
	2	494	494
F	1	188	188
	2	382	382
	3	372	372
Fc	1	772	772
	2	818	818
	3	807	807
Ff	1	570	570

	2	372	372
G	1	333	333
	2	340	340
Gf	1	321	321
	2	296	296
xA	1	769	769
	2	818	818
xB	1	1814	1814
xC	1	737	737
	2	702	702
xD	1	850	850
	2	1132	1132
xE	1	887	887
	2	494	494
xF	1	807	807
Cc1	1	766	766
E1	1	420	420
	2	456	456
Gf1	1	56	56
Cc2	2	755	755
	3	482	482
	4	1128	1128
	5	623	623
	6	345	345
E2	3	321	321
	4	296	296
TC5	2	729	729
	3	818	818
	4	0	0
TC9	1	1388	1388
	2	756	756
	3	414	414
TC35	1	40	40
TC36	1	236	236
TC37	1	43	43
TC38	1	43	43
TC39	2	729	729
	3	818	818
TC40	2	772	772
	3	818	818
TC41	1	193	193
TC42	1	0	0
TC43	1	0	0
47	1	1439	1439
48	1	1071	1071
49	1	1388	1388
	2	1170	1170
50	1	1410	1410
51	1	942	942

## Signals

Arm	Traffic Stream	Controller stream	Phase	Second phase enabled
A	1	771-2	E	
	2	771-2	E	
	3	771-2	E	

	4	771-2	E	
Ac	1	771-2	D	
	2	771-2	D	
	3	771-2	D	
B	1	769-1	B	
	2	769-1	B	
	3	769-1	B	
	4	769-1	B	
Bc	1	769-1	A	
	2	769-1	A	
	3	769-1	A	
C	1	769-2	G	
	2	769-2	G	
	3	769-2	G	
D	1	770-1	B	
	2	770-1	B	
	3	770-1	B	
	4	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	
	6	769-2	D	
E2	3	770-3	H	
	4	770-3	H	
TC5	2	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
TC9	1	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
TC35	1	TC777-1	A	

TC37	1	TC777-2	J	
TC41	1	TC777-1	D	
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	5.58	48.00	✓	Straight	Straight Movement
	2	1	Af/1	A/2	5.75	48.00	✓	Straight	Straight Movement
	3	1	Af/2	A/3	5.88	48.00	✓	Straight	Straight Movement
	4	1	Af/3	A/4	6.01	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	4.71	48.00	✓	Nearside	68.09
	2	1	A/2	Bcf/2	6.63	34.00	✓	Nearside	71.40
	3	1	A/3	Bcf/3	6.61	34.00	✓	Nearside	74.72
	4	1	A/4	Bcf/4	6.60	34.00	✓	Nearside	78.03
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	14.73	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
	4	1	Df/2	D/4	4.16	48.00	✓	Straight	Straight Movement
Dc	1	1	Dcf/3	Dc/1	6.11	30.00	✓	Offside	56.19
	2	1	Dcf/4	Dc/2	5.88	30.00	✓	Offside	52.87
	3	1	Dcf/5	Dc/3	5.64	30.00	✓	Offside	49.56
	4	1	Dcf/6	Dc/4	5.41	30.00	✓	Offside	46.25
Dcf	1	1	Cc2/2	Dcf/1	4.91	48.00	✓	Straight	Straight Movement
	2	1	Cc2/4	Dcf/2	4.90	48.00	✓	Straight	Straight Movement
	3	1	C/2	Dcf/3	4.92	48.00	✓	Nearside	58.12
	4	1	C/2	Dcf/4	5.08	48.00	✓	Nearside	58.12
	5	1	C/3	Dcf/5	4.96	48.00	✓	Nearside	61.43
	6	1	C/3	Dcf/6	7.94	30.00	✓	Nearside	61.43
Dxp	1	1	Dcf/1	Dxp/1	3.43	48.00	✓	Nearside	60.22
	2	1	Dcf/2	Dxp/2	3.61	48.00	✓	Nearside	63.54
Ec	1	1	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	1	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	1	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	1	Ecf/5	Ec/4	5.41	30.00	✓	Offside	66.48
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	3.56	48.00	✓	Offside	66.17
	5	1	Dc/4	Ecf/5	3.64	48.00	✓	Offside	62.86
Exp	1	1	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	1	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	1	1	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	1	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	1	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	1	1	Ec/2	Fc/1	18.84	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

<b>G</b>	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
<b>Gf</b>	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
<b>xA</b>	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
<b>xB</b>	1	1	Bcf/1	xB/1	5.81	48.00	✓	Nearside	59.55
<b>xC</b>	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
<b>xD</b>	1	1	Dxp/1	xD/1	9.11	48.00	✓	Nearside	44.59
	2	1	Dxp/2	xD/2	9.16	48.00	✓	Nearside	47.90
<b>xE</b>	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
<b>xF</b>	1	1	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
<b>Cc1</b>	1	1	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
<b>E1</b>	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
<b>Gf1</b>	1	1	Ecf/5	Gf1/1	5.74	30.00	✓	Offside	21.77
<b>Cc2</b>	2	1	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	1	B/3	Cc2/3	8.20	40.00	✓	Straight	Straight Movement
	4	1	B/2	Cc2/4	8.14	40.00	✓	Straight	Straight Movement
	5	1	Bc/3	Cc2/5	6.03	54.00	✓	Offside	96.53
	6	1	Bc/3	Cc2/6	5.87	54.00	✓	Offside	93.22
<b>E2</b>	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
<b>TC5</b>	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
<b>TC9</b>	1	1	49/1	TC9/1	11.00	30.00	✓	Straight	Straight Movement
	2	1	49/2	TC9/2	11.07	30.00	✓	Straight	Straight Movement
	3	1	49/2	TC9/3	11.12	30.00	✓	Straight	Straight Movement
<b>TC35</b>	1	1	xA/1	TC35/1	2.90	30.00	✓	Straight	Straight Movement
<b>TC37</b>	1	1	TC36/1	TC37/1	3.19	50.00	✓	Nearside	46.04
<b>TC38</b>	1	1	TC37/1	TC38/1	1.53	50.00	✓	Straight	Straight Movement
<b>TC39</b>	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
<b>TC40</b>	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	3.95	57.00	✓	Offside	89.74
	3	2	Ac/3	Bcf/3	3.95	57.00	✓	Offside	86.42
	4	2	Ac/3	Bcf/4	3.94	57.00	✓	Offside	86.42
C	2	2	Cf/1	C/2	14.73	30.00	✓	Offside	56.58
Dcf	1	2	C/1	Dcf/1	4.91	48.00	✓	Nearside	54.80
	2	2	C/1	Dcf/2	4.90	48.00	✓	Nearside	54.80
	3	2	Cc2/3	Dcf/3	7.87	30.00	✓	Straight	Straight Movement
	4	2	Cc2/3	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
	5	2	Cc2/5	Dcf/5	7.94	30.00	✓	Offside	99.16
	6	2	Cc2/6	Dcf/6	7.94	30.00	✓	Offside	95.85
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	5.63	30.00	✓	Nearside	46.68
	4	2	D/3	Ecf/4	5.70	30.00	✓	Nearside	49.99
	5	2	D/4	Ecf/5	5.83	30.00	✓	Nearside	53.30
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
xB	1	2	Bcf/2	xB/1	9.29	30.00	✓	Nearside	60.96
xC	1	2	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	2	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
xF	1	2	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
Cc1	1	2	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	2	2	Bc/1	Cc2/2	10.98	30.00	✓	Straight	Straight Movement
	3	2	Bc/2	Cc2/3	10.93	30.00	✓	Offside	99.84
	4	2	Bc/2	Cc2/4	6.03	54.00	✓	Straight	Straight Movement
	5	2	B/4	Cc2/5	8.14	40.00	✓	Straight	Straight Movement

	6	2	B/4	Cc2/6	7.93	40.00	✓	Straight	Straight Movement
TC9	2	2	49/1	TC9/2	11.07	30.00	✓	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
Dcf	4	3	Cc2/5	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
xA	2	3	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	3	3	B/2	Cc2/3	10.93	30.00	✓	Straight	Straight Movement
	5	3	B/3	Cc2/5	10.86	30.00	✓	Straight	Straight Movement

### Give Way Data

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

### Give Way Data - All Movements - Conflicts

Traffic Stream	Description	Controlling type	Controlling traffic stream	Percentage opposing (%)	Slope coefficient	Upstream signals visible
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	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)	✓	User Equilibrium			✓								

Note: Auto Calculate disabled on this Local Matrix - Paths and Flow Allocation might not be up to date.

### Normal Input Flows (PCU/hr)

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	A28	3	55	412	13	469	8	450	0
	B28	19	0	99	180	512	6	255	0
	C28	385	44	0	306	105	7	496	0
	D28	6	388	343	0	17	8	180	0
	E28	496	617	94	114	1	5	166	0

	<b>F28</b>	69	16	45	46	17	0	43	0
	<b>G28</b>	836	319	989	148	260	6	0	0
	<b>H28</b>	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	<b>A28</b>	(untitled)	50/1	xB/1	#FF0000
	<b>B28</b>	(untitled)	48/1	47/1	#00FF40
	<b>C28</b>	(untitled)	Df/2, Df/1	xD/1, xD/2	#804000
	<b>D28</b>	(untitled)	51/1	xF/1	#FF00FF
	<b>E28</b>	(untitled)	Ef/2, Ef/1	xE/1, xE/2	#FF8000
	<b>F28</b>	(untitled)	TC36/1	TC35/1	#FFA500
	<b>G28</b>	(untitled)	49/2, 49/1	TC40/2, TC40/3	#0000FF
	<b>H28</b>	(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	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	408
	49	I1	C28	D28	Df/1, D/1, Ecf/2, Ec/1, xF/1	Normal	306
	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	155
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	5
	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Normal	296
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	384
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	0
	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	55
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	11
	112		F28	G28	TC36/1, TC37/1, TC38/1, TC40/2	Normal	43
	113		F28	A28	TC36/1, TC41/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	4
	125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	756	
137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	0	

138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	0
140		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	245
141		B28	F28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	6
142		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	4
143		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
144		B28	G28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	6
145		B28	H28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
146		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
147		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
148		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
149		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	19
150		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	321
151		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	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	16
154		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
155		G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
156		G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
157		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
158		A28	G28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	330
159		A28	H28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
160		B28	D28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	180
161		B28	E28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	61
162		B28	D28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
163		B28	E28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	1
164		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
165		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
166		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	95
167		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
168		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	759
169		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	72
170		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	247
171		G28	H28	49/1, TC9/1, TC43/1	Normal	0

172		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
173		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	46
174		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
175		A28	D28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
176		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
177		H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
178		B28	E28	48/1, Cf/1, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	284
179		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	167
180		A28	H28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
181		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	45
182		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
183		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	2
184		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	56
185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	0
186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	28
187		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
188		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
189		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
190		G28	D28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
191		D28	F28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
192		D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
193		D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
194		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	54
196		D28	F28	51/1, Ff/1, F/1, xA/1, TC35/1	Normal	8
197		D28	G28	51/1, Ff/1, F/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	126
198		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
199		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	315
200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	61
201		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
202		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
203		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
205		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	136

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
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	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	Normal	343
249	H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/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	0
283	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
284	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
285	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
286	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
307	G28	C28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
317	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	280
318	C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
319	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
320	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
322	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	215
323	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	7
324	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	1
325	C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
330	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	198
331	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
332	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
334	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
342	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
343	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	44
364	B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
379	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
380	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
381	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
382	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
383	G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
384	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
385	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0

386	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
387	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
388	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
389	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
390	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
391	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
392	D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
393	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	12
394	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
395	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
396	H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
397	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
398	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
399	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
400	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
401	G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	6
402	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
403	G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
404	A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
405	A28	F28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
406	A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
407	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
408	H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
409	H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
410	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
411	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
412	F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
413	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
414	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
415	A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	13
417	A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	35
418	G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	233
423	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

424		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
425		E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	46
428		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	48
431		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
439		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
440		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
441		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
442		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
443		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
444		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
445		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
446		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
447		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
448		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
449		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
450		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
451		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	148
452		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	260
453		A28	D28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
454		A28	E28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
455		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
456		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	1
457		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
458		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	17
459		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
460		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	17
461		A28	E28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
462		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	59
463		A28	F28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	8
464		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	61
465		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	296
466		A28	D28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
467		G28	A28	49/1, TC9/1, Af/1, A/2, Bcf/2, xB/1	Normal	77

468		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
469		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	3
470		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
471		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
472		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
473		C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	131
474		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	88
475		E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
476		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	6
477		H28	A28	TC42/1, Af/1, A/2, Bcf/2, xB/1	Normal	0
478		F28	A28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, xB/1	Normal	69

## 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 (%)	Journey Time (s)
16:30-17:30	A	1	(untitled)	E	759	2050	22	786	97	-7	54.18	17.79	137.61	59.76
		2	(untitled)	E	759	2050	22	786	97	-7	55.95	18.14	136.05	61.70
		3	(untitled)	E	756	2050	22	786	96	-6	51.75	18.00	132.03	57.63
		4	(untitled)	E	477	2050	22	786	61	48	17.07	7.47	53.60	23.08
	Ac	1	(untitled)	D	678	2263	28	1094	62	45	9.54	5.19	31.13	16.73
		2	(untitled)	D	596	2263	28	1058	56	60	4.72	7.15	44.50	14.22
		3	(untitled)	D	281	2263	28	1094	26	250	0.60	0.05	0.32	7.19
Acf	1	(untitled)		1274	2263	60	2263	56	60	1.02	0.36	2.99	6.24	

	2	(untitled)		281	2263	60	2263	12	625	0.11	0.01	0.07	7.36
Af	1	(untitled)		1518	2050	60	2050	74	22	2.49	1.05	11.27	8.91
	2	(untitled)		756	2050	60	2048	37	144	0.51	1.56	16.83	6.90
	3	(untitled)		477	2050	60	2050	23	287	0.27	0.04	0.38	6.63
B	1	(untitled)	B	439	2050	13	478	92	-2	55.94	10.24	62.22	63.04
	2	(untitled)	B	326	2150	13	322	101	-11	173.40	18.34	108.54	180.69
	3	(untitled)	B	312	2100	13	430	73	24	32.30	5.10	29.39	39.77
	4	(untitled)	B	333	2050	13	478	70	29	29.51	5.59	31.39	41.80
Bc	1	(untitled)	A	983	2050	35	1230	80	13	9.11	7.60	32.89	21.07
	2	(untitled)	A	1014	2050	35	1230	82	9	6.71	1.89	8.26	18.54
	3	(untitled)	A	500	2050	35	1230	41	121	1.01	0.15	0.67	12.72
Bcf	1	(untitled)		1437	2263	60	2263	64	42	1.38	0.55	5.05	5.74
	2	(untitled)		1355	2263	60	2263	60	50	1.18	0.45	4.09	6.64
	3	(untitled)		1014	2263	60	2263	45	101	0.65	0.18	1.67	6.58
	4	(untitled)		500	2263	60	2263	22	307	0.23	0.03	0.29	6.71
Bf	1	(untitled)		765	1800	60	1800	43	112	0.74	0.16	0.40	28.08
	2	(untitled)		645	1800	60	1800	36	151	0.56	0.10	0.25	27.97
C	1	(untitled)	G	86	2100	16	595	14	524	16.98	1.46	6.94	31.52
	2	(untitled)	G	599	2200	16	623	96	-6	130.02	27.47	128.68	144.75
	3	(untitled)	G	243	2050	16	581	42	116	26.96	4.19	19.38	41.89
Cf	1	(untitled)		541	1965	60	541	100	-10	191.41	35.78	142.29	208.76
	2	(untitled)		387	1965	60	1079	36	151	8.12	4.87	19.20	25.62
D	1	(untitled)	B	411	2050	12	444	93	-3	61.14	10.23	106.94	65.27
	2	(untitled)	B	222	1850	12	401	55	63	26.45	3.36	35.15	30.58
	3	(untitled)	B	336	2250	12	488	69	31	29.69	5.55	60.36	33.65
	4	(untitled)	B	373	2250	12	488	77	18	33.70	6.51	67.54	37.86
Dc	1	(untitled)	A	718	2100	38	1365	53	71	2.38	0.82	9.21	8.49
	2	(untitled)	A	845	2100	38	1365	62	45	11.76	7.75	90.96	17.64
	3	(untitled)	A	355	2100	38	1365	26	246	0.67	0.13	1.64	6.31
	4	(untitled)	A	364	2100	38	1365	27	238	0.48	0.05	0.62	5.89
Dcf	1	(untitled)		838	2050	60	2050	41	120	0.61	0.14	1.24	5.51
	2	(untitled)		1045	2100	60	2100	50	81	0.85	0.25	2.17	5.74

		3	(untitled)		718	2100	60	2100	34	163	0.45	0.09	0.78	6.71
		4	(untitled)		845	2100	60	1780	47	90	1.50	1.91	16.22	8.87
		5	(untitled)		355	2100	60	2100	17	433	0.17	0.02	0.15	6.26
		6	(untitled)		364	2050	60	2050	18	407	0.19	0.02	0.17	8.13
	Df	1	(untitled)		633	1900	60	1900	33	170	0.47	0.08	0.24	24.47
		2	(untitled)		709	2250	60	2250	32	186	0.37	0.07	0.21	24.37
	Dxp	1	(untitled)	D	851	2050	43	1503	57	59	1.80	0.96	12.07	5.23
		2	(untitled)	D	1046	2050	43	1503	70	29	2.75	5.44	64.99	6.36
	Ec	1	(untitled)	F	669	2150	36	1326	50	78	8.39	4.57	52.42	12.15
		2	(untitled)	F	577	2263	36	1396	41	118	6.68	4.97	59.00	10.31
		3	(untitled)	F	671	2263	36	1396	48	87	1.51	2.67	32.82	5.02
		4	(untitled)	F	348	2250	36	1388	25	258	1.28	0.32	4.03	6.69
	Ecf	1	(untitled)		823	2100	60	2100	39	130	0.55	0.13	1.58	4.00
		2	(untitled)		1151	2100	60	2100	55	64	1.04	0.33	4.11	4.51
		3	(untitled)		577	2263	60	2263	25	253	0.27	0.04	0.53	4.61
		4	(untitled)		671	2300	60	2300	29	208	0.32	0.06	0.73	4.96
		5	(untitled)		401	2300	60	2300	17	416	0.17	0.02	0.22	5.84
	Ef	1	(untitled)		876	1900	60	1900	46	95	0.81	0.20	0.89	16.11
		2	(untitled)		617	1900	60	1900	32	177	0.46	0.08	0.35	15.76
	Exp	1	(untitled)	L	823	2050	42	1469	56	61	2.64	2.67	29.67	6.53
		2	(untitled)	L	482	2050	42	1469	33	175	0.68	0.12	1.30	4.71
	F	1	(untitled)	B	138	2100	7	280	49	83	40.29	2.55	17.26	46.68
		2	(untitled)	B	280	2100	7	280	100	-10	256.54	21.81	146.28	262.96
		3	(untitled)	B	280	2100	7	280	100	-10	256.54	21.81	143.72	263.08
	Fc	1	(untitled)	A	737	2263	43	1660	44	103	1.94	2.24	7.04	21.17
		2	(untitled)	A	816	2263	43	1597	51	76	1.86	3.61	11.43	20.83
		3	(untitled)	A	805	2263	43	1495	54	67	6.39	8.50	27.10	25.92
	Ff	1	(untitled)		418	1900	60	418	100	-10	405.90	57.56	120.04	438.99
		2	(untitled)		273	1900	60	280	97	-8	302.69	27.17	56.73	335.74
	G	1	(untitled)	F	330	2050	16	556	59	52	21.58	5.92	21.90	37.56
		2	(untitled)	F	304	2050	16	304	100	-10	354.49	33.75	127.83	365.87
	Gf	1	(untitled)		321	2050	60	2050	16	475	0.16	0.01	0.21	3.20

	2	(untitled)		260	2050	60	260	100	-10	155.23	14.14	202.92	158.24
xA	1	(untitled)		718	2263	60	2263	32	184	0.37	0.07	0.18	17.59
	2	(untitled)		783	2263	60	2263	35	160	0.42	0.09	0.23	17.67
xB	1	(untitled)		1810	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	6.53
xC	1	(untitled)		649	1900	60	671	97	-7	53.41	17.20	85.57	62.08
	2	(untitled)		651	1900	60	651	100	-10	129.13	30.02	148.82	137.83
xD	1	(untitled)		851	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.11
	2	(untitled)		1046	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.16
xE	1	(untitled)		823	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		482	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
xF	1	(untitled)		783	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
Cc1	1	(untitled)	E	666	2050	29	1025	65	39	14.09	8.33	50.00	20.67
E1	1	(untitled)	G	419	2050	13	478	88	3	45.91	8.64	62.14	51.91
	2	(untitled)	G	457	2200	13	513	89	1	47.18	9.56	68.74	53.18
Gf1	1	(untitled)		53	672	60	343	15	481	16.60	0.75	8.99	22.33
Cc2	2	(untitled)	D	756	2150	30	1086	70	29	10.23	9.48	59.57	19.82
	3	(untitled)	D	478	2050	30	1059	45	99	2.40	10.04	63.35	12.28
	4	(untitled)	D	1042	2150	30	1100	95	-5	34.16	15.01	95.49	40.25
	5	(untitled)	D	619	2050	30	1034	60	50	5.64	2.92	18.55	12.67
	6	(untitled)	D	342	2050	30	1059	32	179	4.17	7.90	51.60	12.04
E2	3	(untitled)	H	321	2150	13	488	66	37	27.88	5.26	56.77	31.88
	4	(untitled)	H	296	2050	13	260	114	-21	285.82	25.63	271.22	289.90
TC5	2	(untitled)	A	681	2263	41	1622	42	114	1.66	2.13	53.19	4.42
	3	(untitled)	A	783	2263	41	1622	48	86	2.71	2.29	57.20	5.47
	4	(untitled)	C	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
TC9	1	(untitled)	B	1388	1925	42	1444	96	-6	29.45	24.18	151.61	40.46
	2	(untitled)	B	756	1966	42	1475	51	76	4.33	4.79	29.88	15.40
	3	(untitled)	B	414	1947	42	1460	28	217	2.87	2.01	12.48	13.99
TC35	1	(untitled)	A	37	1900	41	1362	3	3207	1.76	0.10	2.38	4.65
TC36	1	(untitled)		236	1800	60	1800	13	586	0.15	0.01	0.23	3.18
TC37	1	(untitled)	J	43	1850	45	1418	3	2869	1.79	0.17	2.18	4.98
TC38	1	(untitled)		43	431	60	431	10	803	1.10	2.42	65.30	2.63

	TC39	2	(untitled)		681	2263	60	2263	30	199	0.34	0.06	1.06	2.88
		3	(untitled)		783	2263	60	2263	35	160	0.42	0.09	1.58	2.82
	TC40	2	(untitled)		724	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		783	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC41	1	(untitled)	D	193	1850	8	278	70	29	38.52	3.61	38.04	42.46
	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)		1071	1965	60	928	115	-22	263.80	89.91	937.89	270.41
	49	1	(untitled)		1388	1900	60	1784	78	16	3.73	6.36	139.39	6.88
		2	(untitled)		1170	1900	60	1900	62	46	1.51	0.49	10.78	4.66
	50	1	(untitled)		1410	1900	60	1900	74	21	2.71	1.06	12.66	8.48
	51	1	(untitled)		942	1900	60	690	136	-34	494.64	138.43	2124.37	499.13

## 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	29	0	31	1	7
	2	✓	2	B	11	24	13	1	7
769-2	1	✓	4	D,E,H,I	23	44	21	1	1
	2	✓	5	F,G,J,K	58	8	10	1	7
770-1	1	✓	1	A,C	6	42	36	1	5
	2	✓	2	B	49	1	12	1	7
770-2	1	✓	4	D	28	11	43	1	7
	2	✓	5	E	16	21	5	1	5
770-3	1	✓	7	F,I,J	42	13	31	1	2
	2	✓	9	G,H	24	30	6	1	1
770-4	1	✓	11	L	8	50	42	1	7
	2	✓	12	M	55	1	6	1	6
771-1	1	✓	1	A,C	39	16	37	1	9
	2	✓	3	B	27	34	7	1	7
771-2	1	✓	5	D	40	8	28	1	7
	2	✓	6	E	13	35	22	1	7
TC777-1	1	✓	1	A,B,F	58	39	41	1	7
	2	✓	5	D,H,I	46	52	6	1	6
TC777-2	1	✓	1	J	46	31	45	1	7
	2	✓	2	K	36	41	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
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	✓	74.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	2	✓	76.69	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0

	3	✓	78.40	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	4	✓	80.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Ac	1	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	20	0
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Bc	1	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
Bcf	1	✓	62.77	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	62.62	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.46	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	62.38	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	20	0
	2	✓	122.73	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	20	0
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	20	0
	3	✓	52.87	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
	4	✓	55.42	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0

Dc	1	✓	50.91	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	2	✓	48.96	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	3	✓	47.02	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	4	✓	45.07	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
Dcf	1	✓	65.43	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.28	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	65.54	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	67.69	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.13	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	6	✓	66.17	CTM	0.00	Normal	✓			Directly entered	2050	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	✓	45.75	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.11	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	1	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	4	✓	45.11	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	500
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	✓	46.95	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	47.51	CTM	0.00	Normal	✓			Directly entered	2300	100	100
	5	✓	48.55	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	1	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	1	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	1	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
Fc	1	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500

	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	500
	2	✓	151.80	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
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	✓	77.45	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	✓	121.44	NetworkDefault	0.00	Normal						100	100
	2	✓	122.12	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	20	0
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
Gf1	1	✓	47.81	NetworkDefault	0.00	Normal			✓			100	100
Cc2	2	✓	91.52	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	3	✓	91.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	4	✓	90.39	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	5	✓	90.48	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	6	✓	88.08	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
E2	3	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	✓	92.21	CTM	0.00	Normal	✓	✓		Sum of lanes	1966	100	100
	3	✓	92.69	CTM	0.00	Normal	✓	✓		Sum of lanes	1947	100	100
TC3	5	1	✓	24.16	CTM	0.00	Normal	✓	✓	Directly entered	1900	100	100
TC3	6	1	✓	25.22	NetworkDefault	0.00	Normal	✓		Sum of lanes	1800	100	100
TC3	7	1	✓	44.32	CTM	0.00	Normal	✓	✓	Directly entered	1850	100	100
TC3	8	1	✓	21.32	CTM	0.00	Normal	✓		Directly entered	1850	100	100
TC3	9	2	✓	35.24	CTM	0.00	Normal	✓		Directly entered	2263	100	100
	3	✓	33.28	CTM	0.00	Normal	✓			Directly entered	2263	100	100
TC4	0	2	✓	58.74	PDM	0.00	Normal					100	100
	3	✓	55.82	PDM	0.00	Normal						100	100
TC4	1	1	✓	54.63	CTM	0.00	Normal	✓	✓	Directly entered	1850	100	100
TC4	2	1	✓	23.35	NetworkDefault	0.00	Normal	✓	✓	Sum of lanes	1771	100	100
TC4	3	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	5	0.00	0.00
		2	0	0	5	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	6	0.00	0.00
		2	0	0	6	0.00	0.00
	4	1	0	0	35	0.00	0.00
		2	0	0	35	0.00	0.00
	5	1	0	0	35	0.00	0.00
		2	0	0	35	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	37	0.00	0.00

	2	0	0	37	0.00	0.00
8	1	0	0	31	0.00	0.00
	2	0	0	31	0.00	0.00
9	1	0	0	13	0.00	0.00
	2	0	0	13	0.00	0.00
10	1	0	0	18	0.00	0.00
	2	0	0	18	0.00	0.00
11	1	0	0	27	0.00	0.00
	2	0	0	27	0.00	0.00
12	1	0	0	27	0.00	0.00
	2	0	0	27	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	42	0.00	0.00
	2	0	0	42	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	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

Note: Auto Calculate disabled on this Local Matrix (Paths and Flow Allocation might not be up to date).

#### Average Journey Time (s) for Local Matrix: 1

	To								
	A28	B28	C28	D28	E28	F28	G28	H28	
From	A28	181.9	321.7	145.1	127.3	218.4	159.1	163.2	0.0
	B28	449.1	0.0	532.5	679.9	598.9	413.0	421.2	0.0
	C28	135.4	659.5	0.0	111.6	120.7	107.2	117.0	0.0
	D28	1169.2	1411.0	1209.8	0.0	1193.7	1015.8	1024.4	0.0
	E28	126.0	608.2	186.4	80.2	207.8	110.0	117.8	0.0
	F28	139.2	284.4	184.0	166.8	166.5	0.0	15.0	0.0
	G28	128.5	343.1	173.1	146.4	134.7	160.7	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)
32	C28	E28	105	120.74	526.66	0.00	0.00	0.00	105	120.74	526.66
36	C28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
41	E28	A28	408	126.76	693.45	0.00	0.00	0.00	408	126.76	693.45
49	C28	D28	306	111.58	514.00	0.00	0.00	0.00	306	111.58	514.00
50	E28	D28	114	80.22	370.08	0.00	0.00	0.00	114	80.22	370.08
68	E28	G28	155	117.77	737.43	0.00	0.00	0.00	155	117.77	737.43
92	E28	F28	5	110.03	644.57	0.00	0.00	0.00	5	110.03	644.57
100	E28	B28	296	1034.75	623.35	0.00	0.00	0.00	296	1034.75	623.35
102	A28	C28	384	135.20	694.76	0.00	0.00	0.00	384	135.20	694.76

103	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
105	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
107	A28	B28	55	321.72	716.08	0.00	0.00	0.00	55	321.72	716.08
110	E28	G28	11	117.92	731.08	0.00	0.00	0.00	11	117.92	731.08
112	F28	G28	43	15.02	149.60	0.00	0.00	0.00	43	15.02	149.60
113	F28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
115	B28	C28	4	534.07	556.36	0.00	0.00	0.00	4	534.07	556.36
125	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
130	G28	C28	756	167.54	769.88	0.00	0.00	0.00	756	167.54	769.88
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
140	B28	G28	245	421.10	1063.74	0.00	0.00	0.00	245	421.10	1063.74
141	B28	F28	6	412.97	970.89	0.00	0.00	0.00	6	412.97	970.89
142	B28	G28	4	421.41	1059.16	0.00	0.00	0.00	4	421.41	1059.16
143	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
144	B28	G28	6	427.03	1054.40	0.00	0.00	0.00	6	427.03	1054.40
145	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
146	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
147	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
148	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
149	B28	A28	19	456.54	1016.14	0.00	0.00	0.00	19	456.54	1016.14
150	E28	B28	321	215.65	625.89	0.00	0.00	0.00	321	215.65	625.89
151	B28	B28	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	16	284.44	750.62	0.00	0.00	0.00	16	284.44	750.62
154	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
155	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
156	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
157	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
158	A28	G28	330	161.89	1196.15	0.00	0.00	0.00	330	161.89	1196.15
159	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
160	B28	D28	180	681.13	698.10	0.00	0.00	0.00	180	681.13	698.10
161	B28	E28	61	663.46	713.02	0.00	0.00	0.00	61	663.46	713.02
162	B28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
163	B28	E28	1	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00
164	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
165	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
166	B28	C28	95	532.42	553.47	0.00	0.00	0.00	95	532.42	553.47
167	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
168	G28	A28	759	127.91	386.06	0.00	0.00	0.00	759	127.91	386.06
169	G28	B28	72	284.32	788.72	0.00	0.00	0.00	72	284.32	788.72
170	G28	B28	247	360.43	789.10	0.00	0.00	0.00	247	360.43	789.10
171	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
172	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
173	F28	D28	46	166.83	871.57	0.00	0.00	0.00	46	166.83	871.57
174	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
175	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
176	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
177	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
178	B28	E28	284	659.71	710.57	0.00	0.00	0.00	284	659.71	710.57
179	B28	E28	167	475.02	711.82	0.00	0.00	0.00	167	475.02	711.82
180	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
181	F28	C28	45	184.05	729.68	0.00	0.00	0.00	45	184.05	729.68
182	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
183	A28	E28	2	273.80	854.82	0.00	0.00	0.00	2	273.80	854.82
184	C28	A28	56	129.34	834.22	0.00	0.00	0.00	56	129.34	834.22

185	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
186	A28	C28	28	278.55	699.04	0.00	0.00	0.00	28	278.55	699.04
187	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
188	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
189	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
190	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
191	D28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
192	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
193	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
194	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
195	D28	G28	54	1023.72	744.99	0.00	0.00	0.00	54	1023.72	744.99
196	D28	F28	8	1015.85	652.14	0.00	0.00	0.00	8	1015.85	652.14
197	D28	G28	126	1024.66	740.41	0.00	0.00	0.00	126	1024.66	740.41
198	D28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
199	D28	B28	315	1401.33	1101.39	0.00	0.00	0.00	315	1401.33	1101.39
200	D28	B28	61	1475.50	1101.77	0.00	0.00	0.00	61	1475.50	1101.77
201	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
202	F28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
203	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
205	A28	E28	136	126.70	857.96	0.00	0.00	0.00	136	126.70	857.96
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
246	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
248	D28	C28	343	1209.84	1078.32	0.00	0.00	0.00	343	1209.84	1078.32
249	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
252	F28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
283	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
284	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
285	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
286	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
307	G28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
317	C28	G28	280	118.70	870.70	0.00	0.00	0.00	280	118.70	870.70
318	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
319	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
320	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
322	C28	G28	215	115.01	880.26	0.00	0.00	0.00	215	115.01	880.26
323	C28	F28	7	107.19	787.41	0.00	0.00	0.00	7	107.19	787.41
324	C28	G28	1	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00
325	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
330	C28	A28	198	135.40	834.99	0.00	0.00	0.00	198	135.40	834.99
331	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
332	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
334	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
342	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
343	C28	B28	44	662.83	753.20	0.00	0.00	0.00	44	662.83	753.20
364	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
379	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
380	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
381	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
382	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
383	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
384	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
385	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
386	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
387	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
388	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

389	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
390	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
391	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
392	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
393	D28	B28	12	1337.18	1451.24	0.00	0.00	0.00	12	1337.18	1451.24
394	D28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
395	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
396	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
397	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
398	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
399	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
400	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
401	G28	F28	6	160.67	1180.56	0.00	0.00	0.00	6	160.67	1180.56
402	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
403	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
404	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
405	A28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
406	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
407	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
408	H28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
409	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
410	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
411	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
412	F28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
413	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
414	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
415	A28	D28	13	130.80	843.04	0.00	0.00	0.00	13	130.80	843.04
417	A28	E28	35	125.55	855.50	0.00	0.00	0.00	35	125.55	855.50
418	G28	C28	233	191.10	767.78	0.00	0.00	0.00	233	191.10	767.78
423	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
424	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
425	E28	C28	46	178.87	1070.52	0.00	0.00	0.00	46	178.87	1070.52
428	E28	C28	48	193.69	1069.36	0.00	0.00	0.00	48	193.69	1069.36
431	D28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
439	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
440	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
441	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
442	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
443	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
444	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
445	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
446	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
447	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
448	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
449	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
450	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
451	G28	D28	148	146.39	910.65	0.00	0.00	0.00	148	146.39	910.65
452	G28	E28	260	134.65	925.57	0.00	0.00	0.00	260	134.65	925.57
453	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
454	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
455	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
456	E28	E28	1	207.79	1219.72	0.00	0.00	0.00	1	207.79	1219.72
457	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
458	D28	E28	17	1193.68	1232.00	0.00	0.00	0.00	17	1193.68	1232.00
459	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
460	F28	E28	17	166.47	886.49	0.00	0.00	0.00	17	166.47	886.49

461	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
462	A28	G28	59	166.79	1205.17	0.00	0.00	0.00	59	166.79	1205.17
463	A28	F28	8	159.05	1112.32	0.00	0.00	0.00	8	159.05	1112.32
464	A28	G28	61	166.82	1200.59	0.00	0.00	0.00	61	166.82	1200.59
465	A28	E28	296	271.15	852.36	0.00	0.00	0.00	296	271.15	852.36
466	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
467	G28	A28	77	133.85	388.25	0.00	0.00	0.00	77	133.85	388.25
468	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
469	A28	A28	3	185.41	1154.27	0.00	0.00	0.00	3	185.41	1154.27
470	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
471	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
472	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
473	C28	A28	131	137.96	831.37	0.00	0.00	0.00	131	137.96	831.37
474	E28	A28	88	122.49	690.99	0.00	0.00	0.00	88	122.49	690.99
475	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
476	D28	A28	6	1235.05	700.92	0.00	0.00	0.00	6	1235.05	700.92
477	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
478	F28	A28	69	139.21	350.15	0.00	0.00	0.00	69	139.21	350.15

## Final Prediction Table

### Traffic Stream Results

				SIGNALS		FLOWS		PERFORMANCE				PER PCU		QUEUES	WEIGHTS		PENALTIES	P.I.	
Arm	Traffic Stream	Name	Traffic node	Cont roller stream	Phase	Calcu late d flow entering (PCU/hr)	Calcu lated sat flow (PCU/hr)	Act ual gre en (s per cycle)	Waste d time total (s per cycle)	Degr ee of saturation (%)	Practi cal reserve capacity (%)	Journ eyTime (s)	Me an Delay per Veh (s)	Me an stops per Veh (%)	Mea n max que ue (PCU)	Del ay weighting multiplier (%)	Stop weighing multiplier (%)	Cost of traffic penalties (£ per hr)	P.I.
A	1	(untitled)	6	771-2	E	759 <	2050	22	0.00	97	-7	59.76	54.18	123.93	17.79+	20	0	0.00	32.44
	2	(untitled)	6	771-2	E	759 <	2050	22	0.00	97	-7	61.70	55.95	130.70	18.14+	20	0	0.00	33.50
	3	(untitled)	6	771-2	E	756 <	2050	22	0.00	96	-6	57.63	51.75	128.55	18.00+	20	0	0.00	30.86
	4	(untitled)	6	771-2	E	477	2050	22	0.00	61	48	23.08	17.07	78.36	7.47	20	0	0.00	6.42
Ac	1	(untitled)	6	771-2	D	678	2263	28	4.00	62	45	16.73	9.54	40.32	5.19	100	500	0.00	69.44
	2	(untitled)	6	771-2	D	596	2263	28	2.94	56	60	14.22	4.72	32.55	7.15	100	500	0.00	27.64
	3	(untitled)	6	771-2	D	281	2263	28	21.00	26	250	7.19	0.60	1.04	0.05	100	500	0.00	1.13
Ac f	1	(untitled)	6			1274	2263	60	21.00	56	60	6.24	1.02	0.00	0.36	100	100	0.00	5.15
	2	(untitled)	6			281	2263	60	52.00	12	625	7.36	0.11	0.00	0.01	100	100	0.00	0.12
Af	1	(untitled)	6			1518	2050	60	6.00	74	22	8.91	2.49	0.00	1.05	100	100	0.00	14.90
	2	(untitled)	6			756	2050	60	15.05	37	144	6.90	0.51	0.87	1.56	100	100	0.00	1.62
	3	(untitled)	6			477	2050	60	6.00	23	287	6.63	0.27	0.00	0.04	100	100	0.00	0.50

B	1	(untitled)	1	769-1	B	439	2050	13	0.00	92	-2	63.04	55.94	132.86	10.24	20	0	0.00	19.37
	2	(untitled)	1	769-1	B	326 <	2150	13	5.01	101	-11	180.69	173.40	255.84	18.34+	20	0	0.00	44.60
	3	(untitled)	1	769-1	B	312	2100	13	1.72	73	24	39.77	32.30	97.22	5.10	20	0	0.00	7.95
	4	(untitled)	1	769-1	B	333	2050	13	0.00	70	29	41.80	29.51	100.24	5.59	20	0	0.00	7.75
Bc	1	(untitled)	1	769-1	A	983	2050	35	5.00	80	13	21.07	9.11	37.32	7.60	100	500	0.00	76.18
	2	(untitled)	1	769-1	A	1014	2050	35	5.00	82	9	18.54	6.71	0.00	1.89	100	500	0.00	26.83
	3	(untitled)	1	769-1	A	500	2050	35	5.00	41	121	12.72	1.01	1.81	0.15	100	500	0.00	3.01
Bc f	1	(untitled)	1			1437	2263	60	12.00	64	42	5.74	1.38	0.00	0.55	100	100	0.00	7.83
	2	(untitled)	1			1355	2263	60	10.00	60	50	6.64	1.18	0.00	0.45	100	100	0.00	6.33
	3	(untitled)	1			1014	2263	60	29.00	45	101	6.58	0.65	0.00	0.18	100	100	0.00	2.58
	4	(untitled)	1			500	2263	60	29.00	22	307	6.71	0.23	0.00	0.03	100	100	0.00	0.44
Bf	1	(untitled)	1			765	1800	60	0.00	43	112	28.08	0.74	0.00	0.16	100	100	0.00	2.23
	2	(untitled)	1			645	1800	60	0.00	36	151	27.97	0.56	0.00	0.10	100	100	0.00	1.42
C	1	(untitled)	2	769-2	G	86	2100	16	14.00	14	524	31.52	16.98	100.68	1.46	20	0	0.00	1.15
	2	(untitled)	2	769-2	G	599 <	2200	16	0.00	96	-6	144.75	130.02	263.31	27.47+	20	0	0.00	61.48
	3	(untitled)	2	769-2	G	243	2050	16	9.00	42	116	41.89	26.96	103.65	4.19	20	0	0.00	5.16
Cf	1	(untitled)	2			541 <	1965	60	43.50	100	-10	208.76	191.41	354.17	35.78+	100	100	0.00	432.09
	2	(untitled)	2			387	1965	60	45.05	36	151	25.62	8.12	70.73	4.87	100	100	0.00	15.83
D	1	(untitled)	3	770-1	B	411 <	2050	12	0.00	93	-3	65.27	61.14	140.17	10.23+	20	0	0.00	19.82
	2	(untitled)	3	770-1	B	222	1850	12	0.00	55	63	30.58	26.45	90.64	3.36	20	0	0.00	4.63
	3	(untitled)	3	770-1	B	336	2250	12	0.00	69	31	33.65	29.69	96.88	5.55	20	0	0.00	7.87
	4	(untitled)	3	770-1	B	373	2250	12	0.00	77	18	37.86	33.70	103.63	6.51	20	0	0.00	9.92
Dc	1	(untitled)	3	770-1	A	718	2100	38	8.00	53	71	8.49	2.38	6.80	0.82	100	500	0.00	9.80
	2	(untitled)	3	770-1	A	845	2100	38	6.00	62	45	17.64	11.76	55.02	7.75	100	500	0.00	68.32
	3	(untitled)	3	770-1	A	355	2100	38	22.00	26	246	6.31	0.67	2.26	0.13	100	500	0.00	1.44
	4	(untitled)	3	770-1	A	364	2100	38	20.00	27	238	5.89	0.48	0.00	0.05	100	500	0.00	0.69
Dc f	1	(untitled)	3			838	2050	60	28.00	41	120	5.51	0.61	0.00	0.14	100	100	0.00	2.01
	2	(untitled)	3			1045	2100	60	27.00	50	81	5.74	0.85	0.00	0.25	100	100	0.00	3.50
	3	(untitled)	3			718	2100	60	29.00	34	163	6.71	0.45	0.00	0.09	100	100	0.00	1.26

	4	(untitled)	3			845	2100	60	22.13	47	90	8.87	1.50	9.52	1.91	100	100	0.00	6.41
	5	(untitled)	3			355	2100	60	44.00	17	433	6.26	0.17	0.00	0.02	100	100	0.00	0.24
	6	(untitled)	3			364	2050	60	41.00	18	407	8.13	0.19	0.00	0.02	100	100	0.00	0.27
Df	1	(untitled)	3-2			633	1900	60	0.00	33	170	24.47	0.47	0.00	0.08	100	100	0.00	1.18
	2	(untitled)	3-2			709	2250	60	0.00	32	186	24.37	0.37	0.00	0.07	100	100	0.00	1.03
DxP	1	(untitled)	3-2	770-2	D	851	2050	43	3.00	57	59	5.23	1.80	4.70	0.96	100	100	0.00	7.31
	2	(untitled)	3-2	770-2	D	1046	2050	43	7.00	70	29	6.36	2.75	9.90	5.44	100	100	0.00	14.66
Ec	1	(untitled)	4	770-3	F	669	2150	36	10.00	50	78	12.15	8.39	41.22	4.57	100	500	0.00	66.39
	2	(untitled)	4	770-3	F	577	2263	36	13.00	41	118	10.31	6.68	42.48	4.97	100	500	0.00	54.53
	3	(untitled)	4	770-3	F	671	2263	36	14.00	48	87	5.02	1.51	7.51	2.67	100	500	0.00	12.09
	4	(untitled)	4	770-3	F	348	2250	36	23.00	25	258	6.69	1.28	5.45	0.32	100	500	0.00	2.95
Ecf	1	(untitled)	4			823	2100	60	16.00	39	130	4.00	0.55	0.00	0.13	100	100	0.00	1.79
	2	(untitled)	4			1151	2100	60	14.00	55	64	4.51	1.04	0.00	0.33	100	100	0.00	4.70
	3	(untitled)	4			577	2263	60	30.00	25	253	4.61	0.27	0.00	0.04	100	100	0.00	0.62
	4	(untitled)	4			671	2300	60	36.00	29	208	4.96	0.32	0.00	0.06	100	100	0.00	0.85
	5	(untitled)	4			401	2300	60	39.00	17	416	5.84	0.17	0.00	0.02	100	100	0.00	0.26
Ef	1	(untitled)	4			876	1900	60	0.00	46	95	16.11	0.81	0.00	0.20	100	100	0.00	2.80
	2	(untitled)	4			617	1900	60	0.00	32	177	15.76	0.46	0.00	0.08	100	100	0.00	1.11
Exp	1	(untitled)	4-2	770-4	L	823	2050	42	8.00	56	61	6.53	2.64	15.33	2.67	100	100	0.00	12.63
	2	(untitled)	4-2	770-4	L	482	2050	42	10.00	33	175	4.71	0.68	1.51	0.12	100	100	0.00	1.53
F	1	(untitled)	5	771-1	B	138	2100	7	4.00	49	83	46.68	40.29	0.00	2.55	20	0	0.00	4.38
	2	(untitled)	5	771-1	B	280 <	2100	7	0.00	100	-10	262.96	25.65	32.69	21.81+	20	0	0.00	56.67
	3	(untitled)	5	771-1	B	280 <	2100	7	0.00	100	-10	263.08	25.65	32.69	21.81+	20	0	0.00	56.67
Fc	1	(untitled)	5	771-1	A	737	2263	43	11.00	44	103	21.17	1.94	18.12	2.24	100	500	0.00	16.64
	2	(untitled)	5	771-1	A	816	2263	43	10.67	51	76	20.83	1.86	15.22	3.61	100	500	0.00	16.28
	3	(untitled)	5	771-1	A	805	2263	43	21.36	54	67	25.92	6.39	38.46	8.50	100	500	0.00	44.28
Ff	1	(untitled)	5			418 <	1900	60	46.81	100	-10	438.99	40.59	57.49	57.56+	100	100	0.00	699.04
	2	(untitled)	5			273	1900	60	51.16	97	-8	335.74	30.26	34.41	27.17	100	100	0.00	337.64
G	1	(untitled)	2	769-2	F	330	2050	16	6.73	59	52	37.56	21.58	11.04	5.92	100	500	0.00	59.19
	2	(untitled)	2	769-2	F	304 <	2050	16	8.09	100	-10	365.87	35.44	34.28	33.75+	100	500	74123.70	74716.74

Gf	1	(untitled)	4			321	2050	60	46.00	16	475	3.20	0.16	0.27	0.01	100	100	0.00	0.23
	2	(untitled)	4			260 <	2050	60	52.38	100	-10	158.24	155.23	214.45	14.14+	100	100	0.00	177.41
xA	1	(untitled)	10			718	2263	60	23.00	32	184	17.59	0.37	0.00	0.07	100	100	0.00	1.05
	2	(untitled)	10			783	2263	60	35.00	35	160	17.67	0.42	0.00	0.09	100	100	0.00	1.30
xB	1	(untitled)				1810	Unrestricted	60	0.00	0	Unrestricted	6.53	0.00	0.00	0.00	100	100	0.00	0.00
xC	1	(untitled)				649	1900	60	38.82	97	-7	62.08	53.41	118.99	17.20	100	100	0.00	161.50
	2	(untitled)				651 <	1900	60	39.44	100	-10	137.83	129.13	122.49	30.02+	100	100	0.00	357.22
xD	1	(untitled)				851	Unrestricted	60	11.00	0	Unrestricted	9.11	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				1046	Unrestricted	60	16.00	0	Unrestricted	9.16	0.00	0.00	0.00	100	100	0.00	0.00
xE	1	(untitled)				823	Unrestricted	60	4.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				482	Unrestricted	60	13.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
xF	1	(untitled)				783	Unrestricted	60	0.00	0	Unrestricted	12.19	0.00	0.00	0.00	100	100	0.00	0.00
Cc 1	1	(untitled)	2	769-2	E	666	2050	29	2.01	65	39	20.67	14.09	62.68	8.33	100	100	0.00	53.32
E1	1	(untitled)	4	770-3	G	419	2050	13	0.00	88	3	51.91	45.91	120.04	8.64	20	0	0.00	15.18
	2	(untitled)	4	770-3	G	457	2200	13	0.00	89	1	53.18	47.18	121.53	9.56	20	0	0.00	17.01
Gf 1	1	(untitled)	4			53	672	60	49.34	15	481	22.33	16.60	82.44	0.75	100	100	0.00	4.02
Cc 2	2	(untitled)	2	769-2	D	756	2150	30	2.70	70	29	19.82	10.23	59.15	9.48	100	500	0.00	69.62
	3	(untitled)	2	769-2	D	478	2050	30	17.00	45	99	12.28	2.40	28.93	10.04	100	500	0.00	15.79
	4	(untitled)	2	769-2	D	1042	2150	30	0.30	95	-5	40.25	34.16	82.85	15.01	100	500	1.80	315.42
	5	(untitled)	2	769-2	D	619	2050	30	5.75	60	50	12.67	5.64	22.87	2.92	100	500	0.00	38.40
	6	(untitled)	2	769-2	D	342	2050	30	20.00	32	179	12.04	4.17	68.77	7.90	100	500	0.00	32.41
E2	3	(untitled)	4	770-3	H	321	2150	13	0.37	66	37	31.88	27.88	91.31	5.26	20	0	0.00	7.06
	4	(untitled)	4	770-3	H	296 <	2050	13	6.38	114	-21	289.90	285.82	306.11	25.63+	20	0	0.00	66.74
TC5	2	(untitled)	TC771-6	TC777-1	A	681	2263	41	11.00	42	114	4.42	1.66	12.34	2.13	100	100	0.00	5.51
	3	(untitled)	TC771-6	TC777-1	A	783	2263	41	20.00	48	86	5.47	2.71	17.74	2.29	100	100	0.00	10.10
	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	1388 <	1925	42	0.00	96	-6	40.46	29.45	96.76	24.18+	100	100	0.00	178.10
	2	(untitled)	TC771-6	TC777-1	B	756	1966	42	0.00	51	76	15.40	4.33	35.23	4.79	100	100	0.00	16.26

	3	(untitled)	TC 771-6	TC77 7-1	B	414	1947	42	0.00	28	217	13.99	2.87	29.08	2.01	100	100	0.00	6.20
T C3 5	1	(untitled)	TC 771-6	TC77 7-1	A	37	1900	41	38.00	3	3207	4.65	1.76	16.20	0.10	100	100	0.00	0.33
T C3 6	1	(untitled)	TC 771-6			236	1800	60	0.00	13	586	3.18	0.15	0.00	0.01	100	100	0.00	0.14
T C3 7	1	(untitled)	TC 771-6	TC77 7-2	J	43	1850	45	45.00	3	2869	4.98	1.79	23.40	0.17	100	100	0.00	0.65
T C3 8	1	(untitled)	TC 771-6			43	431	60	45.00	10	803	2.63	1.10	16.84	2.42	100	100	0.00	0.44
T C3 9	2	(untitled)	TC 771-6			681	2263	60	28.00	30	199	2.88	0.34	0.00	0.06	100	100	0.00	0.92
	3	(untitled)	TC 771-6			783	2263	60	37.00	35	160	2.82	0.42	0.00	0.09	100	100	0.00	1.30
T C4 0	2	(untitled)	TC 771-6			724	Unrestricted	60	11.00	0	Unrestricted	4.23	0.00	0.00	0.00	100	100	0.00	0.00
	3	(untitled)	TC 771-6			783	Unrestricted	60	21.00	0	Unrestricted	4.02	0.00	0.00	0.00	100	100	0.00	0.00
T C4 1	1	(untitled)	TC 771-6	TC77 7-1	D	193	1850	8	0.00	70	29	42.46	38.52	11.069	3.61	100	100	0.00	36.77
T C4 2	1	(untitled)	TC 771-6	TC77 7-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
T C4 3	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			1071 <	1965	60	31.67	115	-22	270.41	26.380	30.131	89.91+	100	100	0.00	114.947
49	1	(untitled)	TC 771-6			1388 <	1900	60	3.67	78	16	6.88	3.73	16.07	6.36+	100	100	0.00	23.21
	2	(untitled)	TC 771-6			1170	1900	60	0.00	62	46	4.66	1.51	0.00	0.49	100	100	0.00	6.99
50	1	(untitled)	1			1410	1900	60	0.00	74	21	8.48	2.71	0.00	1.06	100	100	0.00	15.05
51	1	(untitled)	4-2			942 <	1900	60	38.20	136	-34	499.13	49.464	36.414	138.43+	100	100	0.00	186.943

### Pedestrian Crossing Results

				SIGNALS			FLOWS		PERFORMANCE			PER PED		QUES	WEIG	PENAL	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	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00	
	2	(untitled)	3-2	770-2	E	0	11000	5	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	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4-2	770-4	M	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
4	1	(untitled)	4	770-3	J	0	11000	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	J	0	11000	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
5	1	(untitled)	4	770-3	I	0	11000	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	I	0	11000	35	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	37	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	5	771-1	C	0	11000	37	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
8	1	(untitled)	1	769-1	C	0	11000	31	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	1	769-1	C	0	11000	31	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
9	1	(untitled)	2	769-2	J	0	11000	13	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	J	0	11000	13	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
10	1	(untitled)	2	769-2	K	0	11000	18	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	K	0	11000	18	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
11	1	(untitled)		769-2	H	0	11000	27	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		769-2	H	0	11000	27	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
12	1	(untitled)	2	769-2	I	0	11000	27	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	I	0	11000	27	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	42	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	F	0	11000	42	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	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)
<b>Normal traffic</b>	6585.04	815.70	8.07	641.29	7039.84	1014.38	74125.49	82179.71
<b>Bus</b>								
<b>Tram</b>								
<b>Pedestrians</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	6585.04	815.70	8.07	641.29	7039.84	1014.38	74125.49	82179.71

- < = 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  
© Copyright TRL Limited, 2019

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

**The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution**

**Filename:** M62 JN 28 CRF Scheme\_Mar 20\_PF\_Sept 20\_RevC\_mitigation  
DS\_optA+D\_2032+Com+CP+Dev\_03.t16  
**Path:** P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\Transyt\Option A+D  
**Report generation date:** 24/01/2021 16:31:35

## » Network Diagrams

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

## » Summary

## » Network Options

## » Traffic Nodes

## » Arms and Traffic Streams

## » Pedestrian Crossings

## » Local OD Matrix - Local Matrix: 1

## » Signal Timings

## » Results - Link

## » Results - Traffic Stream

## » Data Entry - Stage Start and End

## » Data Entry - Phase

## » Data Entry - Traffic Stream

## » Data entry - Link

## » Results - Pedestrian

## » Collections

## » Point to Point Journey Time

## » Final Prediction Table

## 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	47597.82	1011.87	163% (TS 48/1)	16 (11%)

*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-Ambler	Display End-Of-Green Ambler	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	Local Matrix	Local Matrix 1	Local Matrix 1: Auto Calculate option is switched off - OD flows will not be allocated automatically to the network.
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)	Modeling 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 over all PRC	Network within capacity
15	24/01/2021 16:30:28	24/01/2021 16:30:43	15.16	07:30	120	47597.82	1011.87	163.18	48/1	16	11	TC42/1	48/1	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					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 <sup>[-2]</sup> )	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

### Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms <sup>[-2]</sup> )	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		✓	769-1, 769-2, 770-1, 770-2, 770-3, 770-4, 771-1, 771-2, 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-calculated 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	✓	74.35	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.69	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.40	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.11	✓	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)		✓	62.77	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	62.62	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.46	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.38	✓	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	✓	122.73	✓	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
<b>D</b>	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
	4	(untitled)	Leeds/M62/Wake	✓	55.42	✓	Directly entered	2250		2250	✓		Normal
<b>Dc</b>	1	(untitled)	Brad	✓	50.91	✓	Directly entered	2100		2100	✓		Normal
	2	(untitled)	Brad/M62W	✓	48.96	✓	Directly entered	2100		2100	✓		Normal
	3	(untitled)	Leeds	✓	47.02	✓	Directly entered	2100		2100	✓		Normal
	4	(untitled)	Leeds/M62E	✓	45.07	✓	Directly entered	2100		2100	✓		Normal
<b>Dcf</b>	1	(untitled)		✓	65.43	✓	Directly entered	2050		2050			Normal
	2	(untitled)		✓	65.28	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	65.54	✓	Directly entered	2100		2100			Normal
	4	(untitled)		✓	67.69	✓	Directly entered	2100		2100			Normal
	5	(untitled)		✓	66.13	✓	Directly entered	2100		2100			Normal
	6	(untitled)		✓	66.17	✓	Directly entered	2050		2050			Normal
<b>Df</b>	1	(untitled)			200.00	✓	Sum of lanes	1900					Normal
	2	(untitled)			200.00	✓	Directly entered	2250					Normal
<b>Dxp</b>	1	(untitled)		✓	45.75	✓	Directly entered	2050			✓		Normal
	2	(untitled)		✓	48.11	✓	Directly entered	2050			✓		Normal
<b>Ec</b>	1	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal
	4	(untitled)	M62E	✓	45.11	✓	Directly entered	2250		2250	✓		Normal
<b>Ecf</b>	1	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	46.95	✓	Directly entered	2263		2263			Normal
	4	(untitled)		✓	47.51	✓	Directly entered	2300		2300			Normal
	5	(untitled)		✓	48.55	✓	Directly entered	2300		2300			Normal
<b>Ef</b>	1	(untitled)		✓	127.54	✓	Directly entered	1900					Normal
	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal
<b>Exp</b>	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)		✓	77.45								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)		✓	121.44								Normal
	2	(untitled)		✓	122.12								Normal
xE	1	(untitled)		✓	173.89								Normal
	2	(untitled)		✓	173.83								Normal
xF	1	(untitled)		✓	162.53								Normal
Cc1	1	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal
E1	1	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal
Gf1	1	(untitled)		✓	47.81						✓		Normal
Cc2	2	(untitled)	Dews	✓	91.52	✓	Directly entered	2150		2100	✓		Normal
	3	(untitled)	Brad/M62W	✓	91.11	✓	Directly entered	2050		2050	✓		Normal
	4	(untitled)	Dews/Brad	✓	90.39	✓	Directly entered	2150		2100	✓		Normal
	5	(untitled)	Leeds	✓	90.48	✓	Directly entered	2050		2050	✓		Normal
	6	(untitled)	Leeds	✓	88.08	✓	Directly entered	2050		2050	✓		Normal
E2	3	(untitled)	Wake	✓	53.28	✓	Directly entered	2150		2050	✓		Normal









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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Ac	1	CTM	500	100	100		0.00	✓	16.50	9999.00				
	2	CTM	50	100	100		0.00	✓	16.50	9999.00				
	3	CTM	500	100	100		0.00	✓	16.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Bc	1	CTM	500	100	100		0.00	✓	22.50	9999.00				

	2	CTM	500	100	100		0.00	✓	22.50	9999.00				
	3	CTM	500	100	100		0.00	✓	22.50	9999.00				
<b>Bcf</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							
<b>Bf</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
<b>C</b>	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
<b>Cf</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
<b>D</b>	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
<b>Dc</b>	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
<b>Dcf</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							
	5	CTM	100	100	100		0.00							
	6	CTM	100	100	100		0.00							
<b>Df</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Dx P</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Ec</b>	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
<b>Ecf</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							
	5	CTM	100	100	100		0.00							
<b>Ef</b>	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
<b>Exp</b>	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							

F	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
Fc	1	CTM	500	100	100		0.00	✓	32.0 0	9999. 00				
	2	CTM	500	100	100		0.00	✓	32.0 0	9999. 00				
	3	CTM	500	100	100		0.00	✓	32.0 0	9999. 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	500	100	100		0.00	✓	26.0 0	9999. 00				
	2	CTM	500	100	100		0.00	✓	26.0 0	9999. 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	NetworkDe fault	100	100	100		0.00							
xC	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
xD	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
xE	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
xF	1	NetworkDe fault	100	100	100		0.00							
Cc1	1	CTM	100	100	100		0.00							
E1	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
Gf1	1	NetworkDe fault	100	100	100		0.00							
Cc2	2	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	3	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	4	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	5	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
	6	CTM	500	100	100		0.00	✓	15.0 0	9999. 00				
E2	3	CTM	0	20	100		0.00							
	4	CTM	0	20	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	NetworkDe fault	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	NetworkDe fault	100	100	100		0.00							
TC 43	1	NetworkDe fault	100	100	100		0.00							
47	1	CTM	100	100	100		0.00							
48	1	NetworkDe fault	100	100	100		0.00							
49	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
50	1	NetworkDe fault	100	100	100		0.00							
51	1	NetworkDe fault	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	329	329
	2	324	324
	3	435	435
	4	386	386
Ac	1	830	830
	2	853	853
	3	174	174
Acf	1	1683	1683
	2	174	174
Af	1	653	653
	2	435	435
	3	386	386
B	1	467	467
	2	503	503
	3	528	528
	4	519	519
Bc	1	685	685

	2	563	563
	3	432	432
<b>Bcf</b>	1	1159	1159
	2	1177	1177
	3	563	563
	4	432	432
<b>Bf</b>	1	970	970
	2	1047	1047
<b>C</b>	1	115	115
	2	921	921
	3	617	617
<b>Cf</b>	1	886	886
	2	767	767
<b>D</b>	1	548	548
	2	549	549
	3	673	673
	4	682	682
<b>Dc</b>	1	929	929
	2	963	963
	3	906	906
	4	868	868
<b>Dcf</b>	1	861	861
	2	426	426
	3	929	929
	4	963	963
	5	906	906
	6	868	868
<b>Df</b>	1	1097	1097
	2	1355	1355
<b>Dxp</b>	1	861	861
	2	426	426
<b>Ec</b>	1	854	854
	2	1454	1454
	3	1456	1456
	4	677	677
<b>Ecf</b>	1	1111	1111
	2	1329	1329
	3	1454	1454
	4	1456	1456
	5	768	768
<b>Ef</b>	1	935	935
	2	521	521
<b>Exp</b>	1	1111	1111
	2	475	475
<b>F</b>	1	360	360
	2	466	466
	3	90	90
<b>Fc</b>	1	1581	1581
	2	1582	1582
	3	1301	1301
<b>Ff</b>	1	826	826
	2	90	90
<b>G</b>	1	303	303
	2	309	309
<b>Gf</b>	1	274	274

	2	247	247
xA	1	1923	1923
	2	1600	1600
xB	1	1651	1651
xC	1	529	529
	2	480	480
xD	1	861	861
	2	426	426
xE	1	1111	1111
	2	475	475
xF	1	912	912
Cc1	1	397	397
E1	1	311	311
	2	624	624
Gf1	1	91	91
Cc2	2	755	755
	3	649	649
	4	417	417
	5	914	914
	6	565	565
E2	3	274	274
	4	247	247
TC5	2	1495	1495
	3	1600	1600
	4	0	0
TC9	1	556	556
	2	392	392
	3	360	360
TC35	1	428	428
TC36	1	201	201
TC37	1	35	35
TC38	1	35	35
TC39	2	1495	1495
	3	1600	1600
TC40	2	1530	1530
	3	1600	1600
TC41	1	166	166
TC42	1	0	0
TC43	1	0	0
47	1	1009	1009
48	1	1653	1653
49	1	654	654
	2	654	654
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>B</b>	1	769-1	B	
	2	769-1	B	
	3	769-1	B	
	4	769-1	B	
<b>Bc</b>	1	769-1	A	
	2	769-1	A	
	3	769-1	A	
<b>C</b>	1	769-2	G	
	2	769-2	G	
	3	769-2	G	
<b>D</b>	1	770-1	B	
	2	770-1	B	
	3	770-1	B	
	4	770-1	B	
<b>Dc</b>	1	770-1	A	
	2	770-1	A	
	3	770-1	A	
	4	770-1	A	
<b>Dxp</b>	1	770-2	D	
	2	770-2	D	
<b>Ec</b>	1	770-3	F	
	2	770-3	F	
	3	770-3	F	
	4	770-3	F	
<b>Exp</b>	1	770-4	L	
	2	770-4	L	
<b>F</b>	1	771-1	B	
	2	771-1	B	
	3	771-1	B	
<b>Fc</b>	1	771-1	A	
	2	771-1	A	
	3	771-1	A	
<b>G</b>	1	769-2	F	
	2	769-2	F	
<b>Cc1</b>	1	769-2	E	
<b>E1</b>	1	770-3	G	
	2	770-3	G	
<b>Cc2</b>	2	769-2	D	
	3	769-2	D	
	4	769-2	D	
	5	769-2	D	
	6	769-2	D	
<b>E2</b>	3	770-3	H	
	4	770-3	H	
<b>TC5</b>	2	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
<b>TC9</b>	1	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
<b>TC35</b>	1	TC777-1	A	
<b>TC37</b>	1	TC777-2	J	
<b>TC41</b>	1	TC777-1	D	
<b>TC42</b>	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	5.58	48.00	✓	Straight	Straight Movement
	2	1	Af/1	A/2	5.75	48.00	✓	Straight	Straight Movement
	3	1	Af/2	A/3	5.88	48.00	✓	Straight	Straight Movement
	4	1	Af/3	A/4	6.01	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	4.71	48.00	✓	Nearside	68.09
	2	1	A/2	Bcf/2	6.63	34.00	✓	Nearside	71.40
	3	1	A/3	Bcf/3	6.61	34.00	✓	Nearside	74.72
	4	1	A/4	Bcf/4	6.60	34.00	✓	Nearside	78.03
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	14.73	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
	4	1	Df/2	D/4	4.16	48.00	✓	Straight	Straight Movement
Dc	1	1	Dcf/3	Dc/1	6.11	30.00	✓	Offside	56.19
	2	1	Dcf/4	Dc/2	5.88	30.00	✓	Offside	52.87
	3	1	Dcf/5	Dc/3	5.64	30.00	✓	Offside	49.56
	4	1	Dcf/6	Dc/4	5.41	30.00	✓	Offside	46.25
Dcf	1	1	Cc2/2	Dcf/1	4.91	48.00	✓	Straight	Straight Movement
	2	1	Cc2/4	Dcf/2	4.90	48.00	✓	Straight	Straight Movement
	3	1	C/2	Dcf/3	4.92	48.00	✓	Nearside	58.12
	4	1	C/2	Dcf/4	5.08	48.00	✓	Nearside	58.12
	5	1	C/3	Dcf/5	4.96	48.00	✓	Nearside	61.43
	6	1	C/3	Dcf/6	7.94	30.00	✓	Nearside	61.43
Dxp	1	1	Dcf/1	Dxp/1	3.43	48.00	✓	Nearside	60.22
	2	1	Dcf/2	Dxp/2	3.61	48.00	✓	Nearside	63.54
Ec	1	1	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	1	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	1	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	1	Ecf/5	Ec/4	5.41	30.00	✓	Offside	66.48
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	3.56	48.00	✓	Offside	66.17
	5	1	Dc/4	Ecf/5	3.64	48.00	✓	Offside	62.86
Exp	1	1	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	1	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	1	1	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	1	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	1	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	1	1	Ec/2	Fc/1	18.84	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	5.81	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	9.11	48.00	✓	Nearside	44.59
	2	1	Dxp/2	xD/2	9.16	48.00	✓	Nearside	47.90
xE	1	1	Exp/1	xE/1	13.04	48.00	✓	Straight	Straight Movement
	2	1	Exp/2	xE/2	13.04	48.00	✓	Straight	Straight Movement
xF	1	1	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
Cc1	1	1	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
E1	1	1	Ef/1	E1/1	6.00	48.00	✓	Nearside	26.33
	2	1	Ef/1	E1/2	6.00	48.00	✓	Nearside	28.96
Gf1	1	1	Ecf/5	Gf1/1	5.74	30.00	✓	Offside	21.77
Cc2	2	1	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	1	B/3	Cc2/3	8.20	40.00	✓	Straight	Straight Movement
	4	1	B/2	Cc2/4	8.14	40.00	✓	Straight	Straight Movement
	5	1	Bc/3	Cc2/5	6.03	54.00	✓	Offside	96.53
	6	1	Bc/3	Cc2/6	5.87	54.00	✓	Offside	93.22
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	11.07	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	3.95	57.00	✓	Offside	89.74
	3	2	Ac/3	Bcf/3	3.95	57.00	✓	Offside	86.42
	4	2	Ac/3	Bcf/4	3.94	57.00	✓	Offside	86.42
C	2	2	Cf/1	C/2	14.73	30.00	✓	Offside	56.58
Dcf	1	2	C/1	Dcf/1	4.91	48.00	✓	Nearside	54.80
	2	2	C/1	Dcf/2	4.90	48.00	✓	Nearside	54.80
	3	2	Cc2/3	Dcf/3	7.87	30.00	✓	Straight	Straight Movement
	4	2	Cc2/3	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
	5	2	Cc2/5	Dcf/5	7.94	30.00	✓	Offside	99.16
	6	2	Cc2/6	Dcf/6	7.94	30.00	✓	Offside	95.85
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	5.63	30.00	✓	Nearside	46.68
	4	2	D/3	Ecf/4	5.70	30.00	✓	Nearside	49.99
	5	2	D/4	Ecf/5	5.83	30.00	✓	Nearside	53.30
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
xB	1	2	Bcf/2	xB/1	9.29	30.00	✓	Nearside	60.96
xC	1	2	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	2	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
xF	1	2	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
Cc1	1	2	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	2	2	Bc/1	Cc2/2	10.98	30.00	✓	Straight	Straight Movement
	3	2	Bc/2	Cc2/3	10.93	30.00	✓	Offside	99.84
	4	2	Bc/2	Cc2/4	6.03	54.00	✓	Straight	Straight Movement
	5	2	B/4	Cc2/5	8.14	40.00	✓	Straight	Straight Movement
	6	2	B/4	Cc2/6	7.93	40.00	✓	Straight	Straight Movement
TC9	2	2	49/1	TC9/2	11.07	30.00	✓	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
Dcf	4	3	Cc2/5	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
xA	2	3	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	3	3	B/2	Cc2/3	10.93	30.00	✓	Straight	Straight Movement
	5	3	B/3	Cc2/5	10.86	30.00	✓	Straight	Straight Movement

### Give Way Data

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

### Give Way Data - All Movements - Conflicts

Traffic Stream	Description	Controlling type	Controlling traffic stream	Percentage opposing (%)	Slope coefficient	Upstream signals visible
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



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	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	540
	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	87
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	40
	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Normal	247
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	412
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	0
	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	55
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	126
	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	0
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	9
	125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
	130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	231
	137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	0
	138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	0
140		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	275	

14 1	B28	F28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	39
14 2	B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
14 3	E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
14 4	B28	G28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	263
14 5	B28	H28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
14 6	B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
14 7	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
14 8	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
14 9	B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	40
15 0	E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	274
15 1	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
15 2	H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
15 3	F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	14
15 4	E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
15 5	G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
15 6	G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
15 7	H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
15 8	A28	G28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	519
15 9	A28	H28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
16 0	B28	D28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	294
16 1	B28	E28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	310
16 2	B28	D28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
16 3	B28	E28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
16 4	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
16 5	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
16 6	B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	106
16 7	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
16 8	G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	329
16 9	G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	24
17 0	G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	116
17 1	G28	H28	49/1, TC9/1, TC43/1	Normal	0
17 2	H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
17 3	F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	27

174		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
175		A28	D28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
176		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
177		H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
178		B28	E28	48/1, Cf/1, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	167
179		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	150
180		A28	H28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
181		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	17
182		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
183		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
184		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	0
186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	4
187		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
188		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
189		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
190		G28	D28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
191		D28	F28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
192		D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
193		D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
194		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	251
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	Normal	0
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	188
200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
201		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	8
202		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	34
203		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
205		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
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

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	84
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
252	F28	C28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
283	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
284	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
285	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
286	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
307	G28	C28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	98
317	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	673
318	C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
319	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
320	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
322	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	485
323	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	45
324	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	18
325	C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
330	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	247
331	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
332	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
334	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
342	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	1
343	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	44
364	B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
379	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
380	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
381	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
382	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
383	G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
384	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
385	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
386	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
387	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0

388	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
389	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
390	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
391	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
392	D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
393	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	28
394	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	18
395	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
396	H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
397	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
398	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
399	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
400	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
401	G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	64
402	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
403	G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
404	A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
405	A28	F28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
406	A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
407	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
408	H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
409	H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
410	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
411	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
412	F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
413	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
414	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
415	A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
417	A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
418	G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	51
423	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
424	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
425	E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0

428		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
431		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	275
439		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	63
440		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
441		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
442		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
443		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
444		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
445		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	44
446		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
447		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
448		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
449		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
450		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
451		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	131
452		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	165
453		A28	D28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
454		A28	E28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
455		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
456		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
457		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
458		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
459		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
460		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
461		A28	E28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
462		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	397
463		A28	F28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	131
464		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
465		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	497
466		A28	D28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	2
467		G28	A28	49/1, TC9/1, Af/1, A/2, Bcf/2, xB/1	Normal	36
468		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
469		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0

470	B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
471	B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
472	C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
473	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	390
474	E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
475	E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
476	D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
477	H28	A28	TC42/1, Af/1, A/2, Bcf/2, xB/1	Normal	0
478	F28	A28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, xB/1	Normal	66

## 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	329	2050	30	547	60	50	29.81	6.88	53.20	35.38	
		2	(untitled)	E	324	2050	30	547	59	52	25.09	5.68	42.56	30.84	
		3	(untitled)	E	434	2050	30	547	79	13	38.22	9.81	71.94	44.10	
		4	(untitled)	E	387	2050	30	547	71	27	32.94	8.38	60.18	38.95	
	Ac	1	(untitled)	D	743	2263	70	1358	55	64	2.81	2.65	15.90	9.99	
		2	(untitled)	D	729	2263	70	1305	56	61	10.22	9.59	59.70	19.72	
		3	(untitled)	D	174	2263	70	1358	13	602	3.84	2.33	15.22	10.43	
	Acf	1	(untitled)			1472	2263	120	2263	65	38	1.48	0.60	4.98	6.69
		2	(untitled)			174	2263	120	2263	8	1071	0.07	0.00	0.03	7.31
	Af	1	(untitled)			653	2050	120	2050	32	183	0.41	0.07	0.80	6.83

	2	(untitled)		434	2050	120	2050	21	325	0.24	0.03	0.31	6.62
	3	(untitled)		387	2050	120	2050	19	377	0.20	0.02	0.24	6.57
<b>B</b>	1	(untitled)	B	440	2050	28	513	86	5	41.03	8.44	51.25	48.13
	2	(untitled)	B	474	2150	28	519	91	-1	51.64	10.90	64.49	58.93
	3	(untitled)	B	497	2100	28	513	97	-7	75.73	14.66	84.57	83.20
	4	(untitled)	B	489	2050	28	513	95	-6	67.56	13.71	76.96	79.85
<b>Bc</b>	1	(untitled)	A	674	2050	68	1196	56	60	12.38	13.89	60.13	24.34
	2	(untitled)	A	562	2050	68	1196	47	92	14.73	8.02	35.06	26.57
	3	(untitled)	A	433	2050	68	1196	36	149	16.76	7.91	34.95	28.47
<b>Bcf</b>	1	(untitled)		1072	2263	120	2263	47	90	0.71	0.21	1.95	4.91
	2	(untitled)		1053	2263	120	2263	47	93	0.69	0.20	1.86	5.47
	3	(untitled)		562	2263	120	2263	25	262	0.26	0.04	0.38	6.27
	4	(untitled)		433	2263	120	2263	19	370	0.19	0.02	0.21	6.51
<b>Bf</b>	1	(untitled)		914	1800	120	1800	51	77	1.03	0.26	0.66	28.37
	2	(untitled)		986	1800	120	1800	55	64	1.21	0.33	0.83	28.62
<b>C</b>	1	(untitled)	G	70	2100	30	560	13	615	17.94	1.46	6.92	32.48
	2	(untitled)	G	564	2200	30	587	96	-6	139.79	27.38	128.26	154.52
	3	(untitled)	G	378	2050	30	547	69	30	34.25	7.11	32.86	49.17
<b>Cf</b>	1	(untitled)		543	1965	120	543	100	-10	189.57	35.81	142.39	206.92
	2	(untitled)		470	1965	120	1126	42	116	8.54	6.29	24.81	26.04
<b>D</b>	1	(untitled)	B	424	2050	34	615	69	31	34.44	6.62	69.22	38.57
	2	(untitled)	B	424	1850	34	424	100	-10	144.14	19.09	199.58	148.27
	3	(untitled)	B	478	2250	34	478	100	-10	117.48	17.41	189.35	121.44
	4	(untitled)	B	484	2250	34	675	72	25	30.98	6.09	63.15	35.14
<b>Dc</b>	1	(untitled)	A	777	2100	66	1190	65	38	9.54	6.43	72.61	15.65
	2	(untitled)	A	729	2100	66	1190	61	47	10.11	7.68	90.24	15.99
	3	(untitled)	A	754	2100	66	1190	63	42	7.54	4.92	60.17	13.18
	4	(untitled)	A	721	2100	66	1190	61	49	6.29	4.30	54.91	11.69
<b>Dcf</b>	1	(untitled)		790	2050	120	2050	39	134	0.55	0.12	1.06	5.46
	2	(untitled)		422	2100	120	2100	20	348	0.22	0.03	0.22	5.11
	3	(untitled)		777	2100	120	2100	37	143	0.50	0.11	0.95	7.63
	4	(untitled)		729	2100	120	1905	38	135	2.28	6.22	52.85	8.85

	5	(untitled)		754	2100	120	2100	36	151	0.48	0.10	0.87	7.66
	6	(untitled)		721	2050	120	2050	35	156	0.48	0.10	0.83	8.42
Df	1	(untitled)		1096	1900	120	847	129	-30	425.45	153.97	442.65	449.45
	2	(untitled)		1355	2250	120	962	141	-36	535.90	213.25	613.08	559.90
Dxp	1	(untitled)	D	790	2050	103	1777	44	103	0.86	0.27	3.44	4.30
	2	(untitled)	D	422	2050	103	1777	24	279	0.34	4.10	49.02	3.95
Ec	1	(untitled)	F	657	2150	64	1183	56	62	11.26	5.61	64.44	15.02
	2	(untitled)	F	1178	2263	64	1245	95	-5	26.17	13.66	162.15	29.80
	3	(untitled)	F	1128	2263	64	1245	91	-1	17.56	10.87	133.66	21.07
	4	(untitled)	F	477	2250	64	1238	39	133	1.57	0.32	4.07	6.98
Ecf	1	(untitled)		918	2100	120	1949	47	91	0.96	4.85	60.68	4.40
	2	(untitled)		1012	2100	120	2100	48	87	0.80	0.22	2.78	4.27
	3	(untitled)		1178	2263	120	1732	68	32	6.00	8.24	100.92	10.28
	4	(untitled)		1128	2300	120	1821	62	45	4.82	7.60	91.97	9.29
	5	(untitled)		555	2300	120	2300	24	273	0.25	0.04	0.45	5.80
Ef	1	(untitled)		935	1900	120	1900	49	83	0.92	0.24	1.07	16.22
	2	(untitled)		521	1900	120	1900	27	228	0.36	0.05	0.23	15.66
Exp	1	(untitled)	L	918	2050	102	1760	52	72	4.83	7.08	78.51	8.71
	2	(untitled)	L	355	2050	102	1760	20	346	0.26	0.03	0.27	4.29
F	1	(untitled)	B	352	2100	24	455	77	17	45.81	7.12	48.09	52.19
	2	(untitled)	B	455	2100	24	455	100	-10	165.05	24.10	161.66	171.48
	3	(untitled)	B	90	2100	24	455	20	355	20.22	2.34	15.44	26.77
Fc	1	(untitled)	A	1305	2263	76	1471	89	1	11.35	6.49	20.36	30.36
	2	(untitled)	A	1254	2263	76	1458	86	5	9.28	10.96	34.73	28.11
	3	(untitled)	A	1101	2263	76	1471	75	20	10.93	15.73	50.18	30.46
Ff	1	(untitled)		826	1900	120	807	102	-12	111.00	34.69	72.34	144.08
	2	(untitled)		90	1900	120	1900	5	1800	0.05	0.00	0.00	33.09
G	1	(untitled)	F	303	2050	28	493	61	46	8.84	5.62	20.81	24.82
	2	(untitled)	F	296	2050	28	493	60	50	12.75	7.41	28.07	24.13
Gf	1	(untitled)		274	2050	120	2050	13	573	0.14	0.01	0.15	3.17
	2	(untitled)		247	2050	120	2050	12	647	0.12	0.01	0.12	3.12
xA	1	(untitled)		1642	2263	120	1890	87	4	11.65	35.43	88.71	28.88

	2	(untitled)		1268	2263	120	1867	68	33	6.11	10.19	25.48	23.36
<b>xB</b>	1	(untitled)		1451	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	6.72
<b>xC</b>	1	(untitled)		524	1900	120	1078	49	85	9.65	7.22	35.93	18.32
	2	(untitled)		464	1900	120	1121	41	117	7.19	7.14	35.40	15.88
<b>xD</b>	1	(untitled)		790	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.11
	2	(untitled)		422	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.16
<b>xE</b>	1	(untitled)		918	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		355	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
<b>xF</b>	1	(untitled)		715	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
<b>Cc1</b>	1	(untitled)	E	389	2050	64	1116	35	158	11.62	5.13	30.76	18.30
<b>E1</b>	1	(untitled)	G	311	2050	34	615	51	78	20.32	4.06	29.17	26.32
	2	(untitled)	G	624	2200	34	660	95	-5	54.86	15.22	109.37	60.86
<b>Gf1</b>	1	(untitled)		78	694	120	694	11	701	1.64	0.34	4.06	7.38
<b>Cc2</b>	2	(untitled)	D	725	2150	66	1203	60	49	11.26	5.88	36.96	20.77
	3	(untitled)	D	619	2050	66	1156	54	68	5.78	2.34	14.74	16.72
	4	(untitled)	D	417	2150	66	1211	34	162	13.01	8.14	51.80	19.06
	5	(untitled)	D	884	2050	66	1135	78	16	11.34	9.41	59.82	20.08
	6	(untitled)	D	535	2050	66	1162	46	95	3.20	2.18	14.25	10.95
<b>E2</b>	3	(untitled)	H	274	2150	34	635	43	109	19.13	3.51	37.91	23.12
	4	(untitled)	H	247	2050	34	615	40	124	18.68	3.15	33.38	22.76
<b>TC5</b>	2	(untitled)	A	1250	2263	97	1867	67	34	3.36	3.57	89.21	6.12
	3	(untitled)	A	1268	2263	97	1867	68	33	3.47	3.61	90.27	6.23
	4	(untitled)	C	0	1800	7	120	0	Unrestricted	0.00	0.00	0.00	0.00
<b>TC9</b>	1	(untitled)	B	556	1925	86	1428	39	131	6.44	6.25	39.17	17.44
	2	(untitled)	B	392	1966	86	1458	27	235	5.46	3.86	24.07	16.52
	3	(untitled)	B	360	1947	86	1444	25	261	5.33	3.54	21.97	16.45
<b>TC35</b>	1	(untitled)	A	393	1900	97	1568	25	259	1.32	1.49	35.49	4.22
<b>TC36</b>	1	(untitled)		201	1800	120	1800	11	706	0.13	0.01	0.16	3.15
<b>TC37</b>	1	(untitled)	J	35	1850	105	1634	2	4102	0.90	0.14	1.77	4.09
<b>TC38</b>	1	(untitled)		35	255	120	255	14	557	7.11	2.43	65.44	8.65
<b>TC39</b>	2	(untitled)		1250	2263	120	2263	55	63	0.98	0.34	5.54	3.52
	3	(untitled)		1268	2263	120	2263	56	61	1.01	0.36	6.16	3.41

	TC4 0	2	(untitled)		1285	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		1268	Unrestricted	120	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC4 1	1	(untitled)	D	166	1850	12	200	83	9	90.13	6.87	72.33	94.06
	TC4 2	1	(untitled)	E	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
	TC4 3	1	(untitled)		0	1800	120	1800	0	Unrestricted	0.00	0.00	0.00	0.00
	47	1	(untitled)		988	1300	120	1300	76	18	4.34	1.19	5.12	20.37
	48	1	(untitled)		1653	1965	120	1013	163	-45	707.26	337.38	3519.34	713.87
	49	1	(untitled)		654	1900	120	1900	34	161	0.50	0.09	1.98	3.65
		2	(untitled)		654	1900	120	1900	34	161	0.50	0.09	1.98	3.65
	50	1	(untitled)		2017	1900	120	1900	106	-15	117.14	65.63	783.80	122.91
	51	1	(untitled)		916	1900	120	1900	48	87	0.88	0.22	3.44	5.38

## 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	34	68	34	1	7
	2	✓	2	B	75	89	14	1	7
	3		1	A	94	8	34	1	7
	4		2	B	15	29	14	1	7
769-2	1	✓	4	D,E,H,I	72	99	27	1	3
	2	✓	5	F,G,J,K	110	118	8	1	8
	3		4	D,E,H,I	12	39	27	1	3
	4		5	F,G,J,K	50	58	8	1	8
770-1	1	✓	1	A,C	13	44	31	1	5
	2	✓	2	B	51	68	17	1	7
	3		1	A,C	73	104	31	1	5
	4		2	B	111	8	17	1	7
770-2	1	✓	4	D	17	0	103	1	7
	2	✓	5	E	5	10	5	1	5
770-3	1	✓	7	F,I,J	55	82	27	1	2
	2	✓	9	G,H	93	103	10	1	1
	3		7	F,I,J	115	22	27	1	2
	4		9	G,H	33	43	10	1	1
770-4	1	✓	11	L	0	102	102	1	7
	2	✓	12	M	107	113	6	1	6
771-1	1	✓	1	A,C	64	96	32	1	9
	2	✓	3	B	107	119	12	1	7
	3		1	A,C	4	36	32	1	9
	4		3	B	47	59	12	1	7
771-2	1	✓	5	D	68	103	35	1	7
	2	✓	6	E	108	3	15	1	7
	3		5	D	8	43	35	1	7
	4		6	E	48	63	15	1	7

TC777-1	1	✓	1	A,B,F	63	28	85	1	6
	2	✓	2	A,C,F,G	33	40	7	1	7
	3	✓	5	D,H,I	47	57	10	1	6
TC777-2	1	✓	1	J	74	59	105	1	7
	2	✓	2	K	64	69	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
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	✓	74.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	2	✓	76.69	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	3	✓	78.40	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	4	✓	80.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Ac	1	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	50
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	20	0
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Bc	1	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
Bcf	1	✓	62.77	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	62.62	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.46	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	62.38	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	20	0
	2	✓	122.73	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	20	0
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	20	0
	3	✓	52.87	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
	4	✓	55.42	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
Dc	1	✓	50.91	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	2	✓	48.96	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	3	✓	47.02	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	4	✓	45.07	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
Dcf	1	✓	65.43	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.28	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	65.54	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	67.69	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.13	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	6	✓	66.17	CTM	0.00	Normal	✓			Directly entered	2050	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	✓	45.75	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.11	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	1	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	4	✓	45.11	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	500
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	✓	46.95	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	47.51	CTM	0.00	Normal	✓			Directly entered	2300	100	100
	5	✓	48.55	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	1	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	1	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	1	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0

	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
Fc	1	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	500
	2	✓	151.80	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
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	✓	77.45	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	✓	121.44	NetworkDefault	0.00	Normal						100	100
	2	✓	122.12	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	20	0
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
Gf1	1	✓	47.81	NetworkDefault	0.00	Normal			✓			100	100
Cc2	2	✓	91.52	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	3	✓	91.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	4	✓	90.39	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	5	✓	90.48	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	6	✓	88.08	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
E2	3	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0

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	✓	92.21	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	5	0.00	0.00
		2	0	0	5	0.00	0.00
	2	1	0	0	62	0.00	0.00
		2	0	0	62	0.00	0.00
	3	1	0	0	6	0.00	0.00
		2	0	0	6	0.00	0.00

	4	1	0	0	62	0.00	0.00
		2	0	0	62	0.00	0.00
	5	1	0	0	62	0.00	0.00
		2	0	0	62	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	64	0.00	0.00
		2	0	0	64	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	12	0.00	0.00
		2	0	0	12	0.00	0.00
	14	1	0	0	98	0.00	0.00
		2	0	0	98	0.00	0.00
	15	1	0	0	7	0.00	0.00
		2	0	0	7	0.00	0.00
	16	1	0	0	10	0.00	0.00
		2	0	0	10	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

Note: Auto Calculate disabled on this Local Matrix (Paths and Flow Allocation might not be up to date).

#### Average Journey Time (s) for Local Matrix: 1

	To								
	A28	B28	C28	D28	E28	F28	G28	H28	
From	A28	0.0	239.6	228.8	277.3	275.8	372.7	364.4	0.0
	B28	899.3	0.0	972.7	1134.6	1078.4	914.4	915.2	0.0
	C28	665.7	683.7	0.0	511.6	514.5	702.9	751.1	0.0
	D28	351.1	402.5	432.4	0.0	193.7	235.0	243.9	0.0
	E28	138.9	105.0	195.9	54.7	0.0	113.2	116.5	0.0
	F28	142.3	204.0	199.9	265.7	239.2	0.0	20.1	0.0
	G28	75.0	136.3	140.8	191.0	172.6	251.4	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)
32	C28	E28	182	514.51	526.66	0.00	0.00	0.00	182	514.51	526.66
36	C28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

41	E28	A28	540	138.90	693.45	0.00	0.00	0.00	540	138.90	693.45
49	C28	D28	366	511.62	514.00	0.00	0.00	0.00	366	511.62	514.00
50	E28	D28	58	54.73	370.08	0.00	0.00	0.00	58	54.73	370.08
68	E28	G28	87	122.36	737.43	0.00	0.00	0.00	87	122.36	737.43
92	E28	F28	40	113.19	644.57	0.00	0.00	0.00	40	113.19	644.57
100	E28	B28	247	103.18	623.35	0.00	0.00	0.00	247	103.18	623.35
102	A28	C28	412	228.71	694.76	0.00	0.00	0.00	412	228.71	694.76
103	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
105	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
107	A28	B28	55	239.56	716.08	0.00	0.00	0.00	55	239.56	716.08
110	E28	G28	126	112.42	731.08	0.00	0.00	0.00	126	112.42	731.08
112	F28	G28	35	20.12	149.60	0.00	0.00	0.00	35	20.12	149.60
113	F28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
115	B28	C28	9	972.19	556.36	0.00	0.00	0.00	9	972.19	556.36
125	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
130	G28	C28	231	142.02	769.88	0.00	0.00	0.00	231	142.02	769.88
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
140	B28	G28	275	923.55	1063.74	0.00	0.00	0.00	275	923.55	1063.74
141	B28	F28	39	914.38	970.89	0.00	0.00	0.00	39	914.38	970.89
142	B28	G28	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	B28	G28	263	906.46	1054.40	0.00	0.00	0.00	263	906.46	1054.40
145	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
146	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
147	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
148	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
149	B28	A28	40	899.33	1016.14	0.00	0.00	0.00	40	899.33	1016.14
150	E28	B28	274	106.66	625.89	0.00	0.00	0.00	274	106.66	625.89
151	B28	B28	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	204.03	750.62	0.00	0.00	0.00	14	204.03	750.62
154	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
155	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
156	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
157	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
158	A28	G28	519	351.05	1196.15	0.00	0.00	0.00	519	351.05	1196.15
159	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
160	B28	D28	294	1134.59	698.10	0.00	0.00	0.00	294	1134.59	698.10
161	B28	E28	310	1123.81	713.02	0.00	0.00	0.00	310	1123.81	713.02
162	B28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
163	B28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
164	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
165	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
166	B28	C28	106	972.74	553.47	0.00	0.00	0.00	106	972.74	553.47
167	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
168	G28	A28	329	74.54	386.06	0.00	0.00	0.00	329	74.54	386.06
169	G28	B28	24	141.21	788.72	0.00	0.00	0.00	24	141.21	788.72
170	G28	B28	116	135.22	789.10	0.00	0.00	0.00	116	135.22	789.10
171	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
172	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
173	F28	D28	27	262.33	871.57	0.00	0.00	0.00	27	262.33	871.57
174	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
175	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
176	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
177	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

178	B28	E28	167	1122.77	710.57	0.00	0.00	0.00	167	1122.77	710.57
179	B28	E28	150	935.32	711.82	0.00	0.00	0.00	150	935.32	711.82
180	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
181	F28	C28	17	199.94	729.68	0.00	0.00	0.00	17	199.94	729.68
182	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
183	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
184	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
185	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
186	A28	C28	4	237.34	699.04	0.00	0.00	0.00	4	237.34	699.04
187	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
188	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
189	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
190	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
191	D28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
192	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
193	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
194	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
195	D28	G28	251	244.19	744.99	0.00	0.00	0.00	251	244.19	744.99
196	D28	F28	109	235.02	652.14	0.00	0.00	0.00	109	235.02	652.14
197	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
198	D28	A28	3	351.14	704.54	0.00	0.00	0.00	3	351.14	704.54
199	D28	B28	188	442.76	1101.39	0.00	0.00	0.00	188	442.76	1101.39
200	D28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
201	F28	E28	8	239.20	884.60	0.00	0.00	0.00	8	239.20	884.60
202	F28	D28	34	268.26	872.14	0.00	0.00	0.00	34	268.26	872.14
203	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
205	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
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
246	E28	C28	84	195.93	1066.04	0.00	0.00	0.00	84	195.93	1066.04
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
252	F28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
283	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
284	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
285	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
286	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
307	G28	C28	98	142.02	769.88	0.00	0.00	0.00	98	142.02	769.88
317	C28	G28	673	780.29	870.70	0.00	0.00	0.00	673	780.29	870.70
318	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
319	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
320	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
322	C28	G28	485	712.30	880.26	0.00	0.00	0.00	485	712.30	880.26
323	C28	F28	45	702.86	787.41	0.00	0.00	0.00	45	702.86	787.41
324	C28	G28	18	706.92	875.68	0.00	0.00	0.00	18	706.92	875.68
325	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
330	C28	A28	247	661.17	834.99	0.00	0.00	0.00	247	661.17	834.99
331	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
332	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
334	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
342	C28	B28	1	684.96	756.38	0.00	0.00	0.00	1	684.96	756.38
343	C28	B28	44	683.65	753.20	0.00	0.00	0.00	44	683.65	753.20
364	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
379	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
380	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
381	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

382	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
383	G28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
384	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
385	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
386	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
387	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
388	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
389	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
390	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
391	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
392	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
393	D28	B28	28	236.71	1451.24	0.00	0.00	0.00	28	236.71	1451.24
394	D28	B28	18	236.94	1448.06	0.00	0.00	0.00	18	236.94	1448.06
395	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
396	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
397	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
398	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
399	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
400	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
401	G28	F28	64	251.42	1180.56	0.00	0.00	0.00	64	251.42	1180.56
402	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
403	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
404	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
405	A28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
406	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
407	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
408	H28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
409	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
410	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
411	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
412	F28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
413	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
414	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
415	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
417	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
418	G28	C28	51	133.14	767.78	0.00	0.00	0.00	51	133.14	767.78
423	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
424	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
425	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
428	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
431	D28	C28	275	432.38	1080.45	0.00	0.00	0.00	275	432.38	1080.45
439	G28	E28	63	173.00	923.21	0.00	0.00	0.00	63	173.00	923.21
440	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
441	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
442	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
443	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
444	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
445	D28	E28	44	193.68	1231.65	0.00	0.00	0.00	44	193.68	1231.65
446	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
447	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
448	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
449	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
450	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
451	G28	D28	131	191.04	910.65	0.00	0.00	0.00	131	191.04	910.65
452	G28	E28	165	172.40	925.57	0.00	0.00	0.00	165	172.40	925.57
453	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

454	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
455	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
456	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
457	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
458	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
459	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
460	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
461	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
462	A28	G28	397	381.96	1205.17	0.00	0.00	0.00	397	381.96	1205.17
463	A28	F28	131	372.70	1112.32	0.00	0.00	0.00	131	372.70	1112.32
464	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
465	A28	E28	497	275.83	852.36	0.00	0.00	0.00	497	275.83	852.36
466	A28	D28	2	277.25	839.90	0.00	0.00	0.00	2	277.25	839.90
467	G28	A28	36	79.31	388.25	0.00	0.00	0.00	36	79.31	388.25
468	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
469	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
470	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
471	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
472	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
473	C28	A28	390	668.64	831.37	0.00	0.00	0.00	390	668.64	831.37
474	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
475	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
476	D28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
477	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
478	F28	A28	66	142.29	350.15	0.00	0.00	0.00	66	142.29	350.15

## Final Prediction Table

### Traffic Stream Results

Arm	Traffic Stream	Name	Traffic node	SIGNALS		FLOWS		PERFORMANCE				PER PCU		QUEUES	WEIGHTS		PENALTIES	P.I.	
				Cont roller stream	Phase	Calcu lated flow entering (PCU/hr)	Calcu lated sat flow (PCU/hr)	Act ual gre en (s (per cycle))	Waste d time total (s (per cycle))	Degree of saturation (%)	Practi cal reserve capacity (%)	Journ eyTime (s)	Me an Delay per Veh (s)	Me an stops per Veh (%)	Me an max que ue (PCU)	Delay weighting multiplier (%)	Stop weighting multiplier (%)	Cost of traffic penalties (£ per hr)	P.I.
A	1	(untitled)	6	771-2	E	329	2050	30	9.00	60	50	35.38	29.81	98.34	6.88	20	0	0.00	7.74
	2	(untitled)	6	771-2	E	324	2050	30	3.00	59	52	30.84	25.09	78.82	5.68	20	0	0.00	6.41
	3	(untitled)	6	771-2	E	434	2050	30	0.00	79	13	44.10	38.22	98.02	9.81	20	0	0.00	13.09
	4	(untitled)	6	771-2	E	387	2050	30	2.00	71	27	38.95	32.94	103.12	8.38	20	0	0.00	10.06
Ac	1	(untitled)	6	771-2	D	743	2263	70	12.00	55	64	9.99	2.81	8.44	2.65	100	500	0.00	18.28
	2	(untitled)	6	771-2	D	729	2263	70	22.82	56	61	19.72	10.22	77.85	9.59	100	50	0.00	34.24
	3	(untitled)	6	771-2	D	174	2263	70	28.00	13	602	10.43	3.84	47.74	2.33	100	500	0.00	15.97
Ac f	1	(untitled)	6			1472	2263	120	26.00	65	38	6.69	1.48	0.00	0.60	100	100	0.00	8.57
	2	(untitled)	6			174	2263	120	60.00	8	1071	7.31	0.07	0.00	0.00	100	100	0.00	0.05

Af	1	(untitled)	6			653	2050	120	18.00	32	183	6.83	0.41	0.00	0.07	100	100	0.00	1.06
	2	(untitled)	6			434	2050	120	20.00	21	325	6.62	0.24	0.00	0.03	100	100	0.00	0.40
	3	(untitled)	6			387	2050	120	20.00	19	377	6.57	0.20	0.00	0.02	100	100	0.00	0.31
B	1	(untitled)	1	769-1	B	440	2050	28	0.00	86	5	48.13	41.03	11.253	8.44	20	0	0.00	14.24
	2	(untitled)	1	769-1	B	474	2150	28	1.01	91	-1	58.93	51.64	12.673	10.90	20	0	0.00	19.30
	3	(untitled)	1	769-1	B	497	2100	28	0.67	97	-7	83.20	75.73	15.719	14.66	20	0	0.00	29.71
	4	(untitled)	1	769-1	B	489	2050	28	0.00	95	-6	79.85	67.56	15.478	13.71	20	0	0.00	26.06
Bc	1	(untitled)	1	769-1	A	674	2050	68	26.00	56	60	24.34	12.38	86.49	13.89	100	500	0.00	97.90
	2	(untitled)	1	769-1	A	562	2050	68	28.00	47	92	26.57	14.73	63.19	8.02	100	500	0.00	72.24
	3	(untitled)	1	769-1	A	433	2050	68	43.00	36	149	28.47	16.76	73.94	7.91	100	500	0.00	64.31
Bc f	1	(untitled)	1			1072	2263	120	37.00	47	90	4.91	0.71	0.00	0.21	100	100	0.00	3.02
	2	(untitled)	1			1053	2263	120	39.00	47	93	5.47	0.69	0.00	0.20	100	100	0.00	2.87
	3	(untitled)	1			562	2263	120	48.00	25	262	6.27	0.26	0.00	0.04	100	100	0.00	0.58
	4	(untitled)	1			433	2263	120	84.00	19	370	6.51	0.19	0.00	0.02	100	100	0.00	0.32
Bf	1	(untitled)	1			914	1800	120	0.00	51	77	28.37	1.03	0.00	0.26	100	100	0.00	3.71
	2	(untitled)	1			986	1800	120	0.00	55	64	28.62	1.21	0.00	0.33	100	100	0.00	4.70
C	1	(untitled)	2	769-2	G	70	2100	30	28.00	13	615	32.48	17.94	10.068	1.46	20	0	0.00	1.00
	2	(untitled)	2	769-2	G	564 <	2200	30	0.00	96	-6	154.52	13.979	24.963	27.38+	20	0	0.00	62.25
	3	(untitled)	2	769-2	G	378	2050	30	8.00	69	30	49.17	34.25	11.243	7.11	20	0	0.00	10.22
Cf	1	(untitled)	2			543 <	1965	120	86.84	100	-10	206.92	18.957	31.844	35.81+	100	100	0.00	427.68
	2	(untitled)	2			470	1965	120	89.23	42	116	26.04	8.54	74.78	6.29	100	100	0.00	20.23
D	1	(untitled)	3	770-1	B	424	2050	34	0.00	69	31	38.57	34.44	87.69	6.62	20	0	0.00	11.51
	2	(untitled)	3	770-1	B	424 <	1850	34	8.52	100	-10	148.27	14.414	17.053	19.09+	20	0	0.00	48.18
	3	(untitled)	3	770-1	B	478 <	2250	34	10.50	100	-10	121.44	11.748	14.052	17.41+	20	0	0.00	44.30
	4	(untitled)	3	770-1	B	484	2250	34	0.00	72	25	35.14	30.98	75.09	6.09	20	0	0.00	11.84
Dc	1	(untitled)	3	770-1	A	777	2100	66	12.00	65	38	15.65	9.54	46.46	6.43	100	500	0.00	51.91
	2	(untitled)	3	770-1	A	729	2100	66	25.00	61	47	15.99	10.11	63.21	7.68	100	500	0.00	57.97
	3	(untitled)	3	770-1	A	754	2100	66	6.00	63	42	13.18	7.54	38.71	4.92	100	500	0.00	40.70

	4	(untitled)	3	770-1	A	721	2100	66	24.00	61	49	11.69	6.29	35.80	4.30	100	500	0.00	34.04
Dc f	1	(untitled)	3			790	2050	120	64.00	39	134	5.46	0.55	0.00	0.12	100	100	0.00	1.71
	2	(untitled)	3			422	2100	120	90.00	20	348	5.11	0.22	0.00	0.03	100	100	0.00	0.36
	3	(untitled)	3			777	2100	120	40.00	37	143	7.63	0.50	0.00	0.11	100	100	0.00	1.54
	4	(untitled)	3			729	2100	120	64.12	38	135	8.85	2.28	30.65	6.22	100	100	0.00	11.56
	5	(untitled)	3			754	2100	120	42.00	36	151	7.66	0.48	0.00	0.10	100	100	0.00	1.43
	6	(untitled)	3			721	2050	120	62.00	35	156	8.42	0.48	0.00	0.10	100	100	0.00	1.35
Df	1	(untitled)	3-2			1096 <	1900	120	66.48	129	-30	449.45	42.54	31.16	153.97+	100	100	0.00	187.238
	2	(untitled)	3-2			1355 <	2250	120	68.67	141	-36	559.90	53.59	37.70	213.25+	100	100	0.00	290.975
Dx P	1	(untitled)	3-2	770-2	D	790	2050	103	23.00	44	103	4.30	0.86	1.04	0.27	100	100	0.00	2.96
	2	(untitled)	3-2	770-2	D	422	2050	103	55.00	24	279	3.95	0.34	1.49	4.10	100	100	0.00	0.78
Ec	1	(untitled)	4	770-3	F	657	2150	64	8.00	56	62	15.02	11.26	44.64	5.61	100	500	0.00	76.27
	2	(untitled)	4	770-3	F	1178 <	2263	64	2.00	95	-5	29.80	26.17	66.59	13.66+	100	500	25396.63	256.44.01
	3	(untitled)	4	770-3	F	1128 <	2263	64	2.00	91	-1	21.07	17.56	56.46	10.87+	100	500	8385.60	856.5.96
	4	(untitled)	4	770-3	F	477	2250	64	22.00	39	133	6.98	1.57	4.02	0.32	100	500	0.00	4.15
Ec f	1	(untitled)	4			918	2100	120	36.64	47	91	4.40	0.96	5.87	4.85	100	100	0.00	5.20
	2	(untitled)	4			1012	2100	120	41.00	48	87	4.27	0.80	0.00	0.22	100	100	0.00	3.18
	3	(untitled)	4			1178 <	2263	120	36.17	68	32	10.28	6.00	39.71	8.24+	100	100	0.00	39.58
	4	(untitled)	4			1128	2300	120	55.00	62	45	9.29	4.82	36.46	7.60	100	100	0.00	31.25
	5	(untitled)	4			555	2300	120	68.00	24	273	5.80	0.25	0.00	0.04	100	100	0.00	0.54
Ef	1	(untitled)	4			935	1900	120	0.00	49	83	16.22	0.92	0.00	0.24	100	100	0.00	3.38
	2	(untitled)	4			521	1900	120	0.00	27	228	15.66	0.36	0.00	0.05	100	100	0.00	0.74
Ex P	1	(untitled)	4-2	770-4	L	918	2050	102	25.00	52	72	8.71	4.83	26.37	7.08	100	100	0.00	25.25
	2	(untitled)	4-2	770-4	L	355	2050	102	60.00	20	346	4.29	0.26	0.00	0.03	100	100	0.00	0.36
F	1	(untitled)	5	771-1	B	352	2100	24	4.00	77	17	52.19	45.81	12.04	7.12	20	0	0.00	12.70
	2	(untitled)	5	771-1	B	455 <	2100	24	0.00	100	-10	171.48	16.50	22.66	24.10+	20	0	0.00	59.24
	3	(untitled)	5	771-1	B	90	2100	24	0.00	20	355	26.77	20.22	79.95	2.34	20	0	0.00	1.44
Fc	1	(untitled)	5	771-1	A	1305	2263	76	6.00	89	1	30.36	11.35	29.27	6.49	100	500	0.00	90.45
	2	(untitled)	5	771-1	A	1254	2263	76	8.69	86	5	28.11	9.28	37.48	10.96	100	500	0.00	85.33
	3	(untitled)	5	771-1	A	1101	2263	76	10.00	75	20	30.46	10.93	69.65	15.73	100	500	0.00	106.82

Ff	1	(untitled)	5			826	1900	120	69.06	102	-12	144.08	11.00	17.01	34.69	100	100	0.00	378.93
	2	(untitled)	5			90	1900	120	0.00	5	1800	33.09	0.05	0.00	0.00	100	100	0.00	0.02
G	1	(untitled)	2	769-2	F	303	2050	28	1.17	61	46	24.82	8.84	35.67	5.62	100	500	0.00	19.77
	2	(untitled)	2	769-2	F	296	2050	28	3.17	60	50	24.13	12.75	86.64	7.41	100	500	0.00	56.09
Gf	1	(untitled)	4			274	2050	120	84.00	13	573	3.17	0.14	0.00	0.01	100	100	0.00	0.15
	2	(untitled)	4			247	2050	120	84.00	12	647	3.12	0.12	0.00	0.01	100	100	0.00	0.12
xA	1	(untitled)	10			1642	2263	120	29.75	87	4	28.88	11.65	43.75	35.43	100	100	0.00	98.55
	2	(untitled)	10			1268	2263	120	51.00	68	33	23.36	6.11	23.12	10.19	100	100	0.00	39.98
xB	1	(untitled)				1451	Unrestricted	120	0.00	0	Unrestricted	6.72	0.00	0.00	0.00	100	100	0.00	0.00
xC	1	(untitled)				524	1900	120	78.93	49	85	18.32	9.65	62.63	7.22	100	100	0.00	30.50
	2	(untitled)				464	1900	120	74.23	41	117	15.88	7.19	55.69	7.14	100	100	0.00	21.45
xD	1	(untitled)				790	Unrestricted	120	19.00	0	Unrestricted	9.11	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				422	Unrestricted	120	46.00	0	Unrestricted	9.16	0.00	0.00	0.00	100	100	0.00	0.00
xE	1	(untitled)				918	Unrestricted	120	13.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				355	Unrestricted	120	57.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
xF	1	(untitled)				715	Unrestricted	120	4.00	0	Unrestricted	12.19	0.00	0.00	0.00	100	100	0.00	0.00
Cc 1	1	(untitled)	2	769-2	E	389	2050	64	14.66	35	158	18.30	11.62	64.31	5.13	100	100	0.00	27.40
E1	1	(untitled)	4	770-3	G	311	2050	34	0.00	51	78	26.32	20.32	78.23	4.06	20	0	0.00	4.99
	2	(untitled)	4	770-3	G	624 <	2200	34	0.00	95	-5	60.86	54.86	13.245	15.22+	20	0	0.00	27.01
Gf 1	1	(untitled)	4			78	694	120	66.00	11	701	7.38	1.64	23.78	0.34	100	100	0.00	0.74
Cc 2	2	(untitled)	2	769-2	D	725	2150	66	16.84	60	49	20.77	11.26	46.21	5.88	100	500	0.00	61.93
	3	(untitled)	2	769-2	D	619	2050	66	20.34	54	68	16.72	5.78	21.28	2.34	100	500	0.00	22.38
	4	(untitled)	2	769-2	D	417	2150	66	42.40	34	162	19.06	13.01	66.46	8.14	100	500	0.00	77.43
	5	(untitled)	2	769-2	D	884	2050	66	14.55	78	16	20.08	11.34	38.67	9.41	100	500	0.00	82.00
	6	(untitled)	2	769-2	D	535	2050	66	34.00	46	95	10.95	3.20	10.79	2.18	100	500	0.00	13.63
E2	3	(untitled)	4	770-3	H	274	2150	34	0.56	43	109	23.12	19.13	76.87	3.51	20	0	0.00	4.13
	4	(untitled)	4	770-3	H	247	2050	34	0.00	40	124	22.76	18.68	76.54	3.15	20	0	0.00	3.64
TC5	2	(untitled)	TC 771-6	TC77 7-1	A	1250	2263	97	11.00	67	34	6.12	3.36	8.57	3.57	100	100	0.00	17.90
	3	(untitled)	TC 771-6	TC77 7-1	A	1268	2263	97	30.00	68	33	6.23	3.47	8.54	3.61	100	100	0.00	18.72
	4	(untitled)	TC 771-6	TC77 7-1	C	0	1800	7	8.00	0	Unrestricted	0.00	0.00	0.00	0.00	100	100	0.00	0.00

T C9	1	(untitled)	TC 771-6	TC77 7-1	B	556	1925	86	0.00	39	131	17.44	6.44	33.17	6.25	100	100	0.00	16.43
	2	(untitled)	TC 771-6	TC77 7-1	B	392	1966	86	0.00	27	235	16.52	5.46	29.54	3.86	100	100	0.00	9.89
	3	(untitled)	TC 771-6	TC77 7-1	B	360	1947	86	0.00	25	261	16.45	5.33	29.50	3.54	100	100	0.00	8.90
T C35	1	(untitled)	TC 771-6	TC77 7-1	A	393	1900	97	13.00	25	259	4.22	1.32	6.18	1.49	100	100	0.00	2.34
T C36	1	(untitled)	TC 771-6			201	1800	120	0.00	11	706	3.15	0.13	0.00	0.01	100	100	0.00	0.10
T C37	1	(untitled)	TC 771-6	TC77 7-2	J	35	1850	105	105.00	2	4102	4.09	0.90	11.69	0.14	100	100	0.00	0.27
T C38	1	(untitled)	TC 771-6			35	255	120	54.00	14	557	8.65	7.11	61.19	2.43	100	100	0.00	1.73
T C39	2	(untitled)	TC 771-6			1250	2263	120	32.00	55	63	3.52	0.98	0.00	0.34	100	100	0.00	4.83
	3	(untitled)	TC 771-6			1268	2263	120	51.00	56	61	3.41	1.01	0.00	0.36	100	100	0.00	5.06
T C40	2	(untitled)	TC 771-6			1285	Unrestricted	120	15.00	0	Unrestricted	4.23	0.00	0.00	0.00	100	100	0.00	0.00
	3	(untitled)	TC 771-6			1268	Unrestricted	120	32.00	0	Unrestricted	4.02	0.00	0.00	0.00	100	100	0.00	0.00
T C41	1	(untitled)	TC 771-6	TC77 7-1	D	166	1850	12	0.00	83	9	94.06	90.13	12.158	6.87	100	100	0.00	66.04
T C42	1	(untitled)	TC 771-6	TC77 7-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
T C43	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			988	1300	120	19.00	76	18	20.37	4.34	0.00	1.19	100	100	0.00	16.91
48	1	(untitled)	2			1653 <	1965	120	58.14	163	-45	713.87	70.726	42.525	337.38+	100	100	0.00	466.545
49	1	(untitled)	TC 771-6			654	1900	120	0.00	34	161	3.65	0.50	0.00	0.09	100	100	0.00	1.28
	2	(untitled)	TC 771-6			654	1900	120	0.00	34	161	3.65	0.50	0.00	0.09	100	100	0.00	1.28
50	1	(untitled)	1			2017 <	1900	120	0.00	106	-15	122.91	11.714	76.05	65.63+	100	100	0.00	950.05
51	1	(untitled)	4-2			916	1900	120	0.00	48	87	5.38	0.88	0.00	0.22	100	100	0.00	3.18

### Pedestrian Crossing Results

			SIGNALS			FLOWS		PERFORMANCE			PER PED		QUES	WEIGHTS	PENALTIES	P.I.
Pedestrian	Side	Name	Traffic node	Controller stream	Phase	Calculated Flow Entering (Ped/hr)	Calculated saturation flow (Ped/hr)	Actual greens (per cycle)	Degree of saturation (%)	Practical reserve capacity	Journey Time (s)	Mean Delay per Ped	Mean queue (Ped)	Delay weighting (%)	Cost of traffic penalties (£ per hr)	P.I.

												d (s)				
1	1	(untitled)	3-2	770-2	E	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3-2	770-2	E	0	11000	5	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
2	1	(untitled)	3	770-1	C	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3	770-1	C	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
3	1	(untitled)	4-2	770-4	M	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4-2	770-4	M	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
4	1	(untitled)	4	770-3	J	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	J	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
5	1	(untitled)	4	770-3	I	0	11000	62	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	I	0	11000	62	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	64	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	5	771-1	C	0	11000	64	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	12	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	I	0	11000	12	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
14	1	(untitled)		TC777-1	F	0	11000	98	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	F	0	11000	98	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
15	1	(untitled)		TC777-1	G	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	G	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
16	1	(untitled)		TC777-1	H	0	11000	10	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00

	2	(untitled)		TC777-1	H	0	11000	10	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	7221.48	1206.05	5.99	1011.87	12652.40	1163.19	33782.23	47597.82
Bus								
Tram								
Pedestrians	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	7221.48	1206.05	5.99	1011.87	12652.40	1163.19	33782.23	47597.82

- < = 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  
© Copyright TRL Limited, 2019

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

**The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution**

**Filename:** M62 JN 28 CRF Scheme\_Mar 20\_PF\_Sept 20\_RevC\_mitigation  
DS\_optA+D\_2032+Com+CP+Dev\_03.t16  
**Path:** P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\Transyt\Option A+D  
**Report generation date:** 24/01/2021 17:39:26

## » Network Diagrams

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

## » Summary

## » Network Options

## » Traffic Nodes

## » Arms and Traffic Streams

## » Pedestrian Crossings

## » Local OD Matrix - Local Matrix: 1

## » Signal Timings

## » Results - Link

## » Results - Traffic Stream

## » Data Entry - Stage Start and End

## » Data Entry - Phase

## » Data Entry - Traffic Stream

## » Data entry - Link

## » Results - Pedestrian

## » Collections

## » Point to Point Journey Time

## » Final Prediction Table

## 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	100180.22	1112.42	142% (TS 51/1)	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-Ambler	Display End-Of-Green Ambler	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

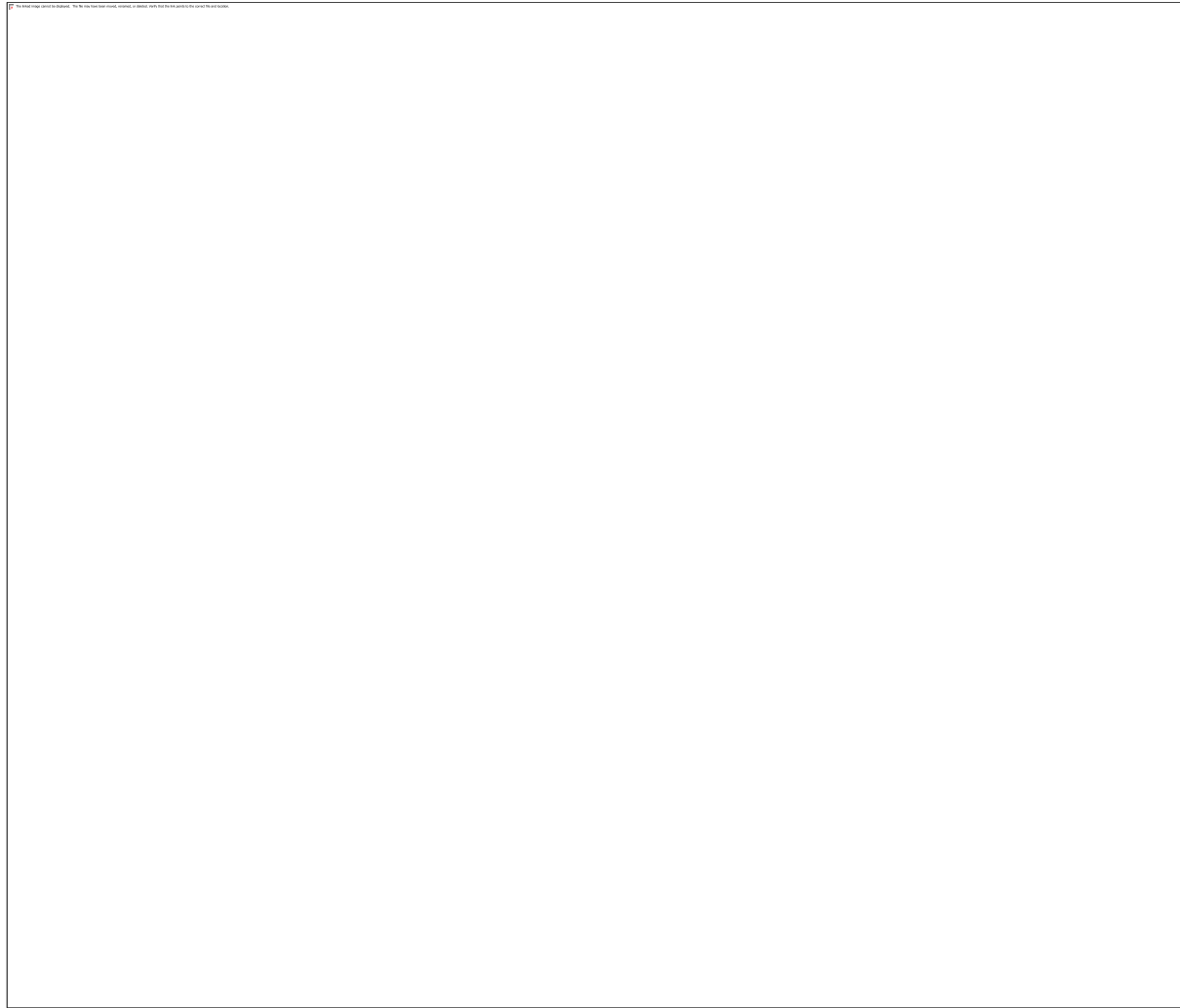
## Sorting

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: Auto Calculate option is switched off - OD flows will not be allocated automatically to the network.
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)	Modeling 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 16:34:26	24/01/2021 17:32:23	3477.19	16:30	60	100180.22	1112.42	141.79	51/1	31	21	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					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 <sup>-2</sup> )	Stationary time coefficient	Cruise time coefficient
Bus	1.00	Default	0.94	30	85

## Tram parameters

Name	PCU Factor	Dispersion type	Acceleration (ms <sup>-2</sup> )	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		✓	769-1, 769-2, 770-1, 770-2, 770-3, 770-4, 771-1, 771-2, 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-calculated 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	✓	74.35	✓	Directly entered	2050		2050	✓		Normal	
	2	(untitled)	Wake	✓	76.69	✓	Directly entered	2050		2050	✓		Normal	
	3	(untitled)	Dews	✓	78.40	✓	Directly entered	2050		2050	✓		Normal	
	4	(untitled)	Brad/M62W	✓	80.11	✓	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)		✓	62.77	✓	Directly entered	2263		2263			Normal	
	2	(untitled)		✓	62.62	✓	Directly entered	2263		2050			Normal	
	3	(untitled)		✓	62.46	✓	Directly entered	2263		2050			Normal	
	4	(untitled)		✓	62.38	✓	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	✓	122.73	✓	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
	4	(untitled)	Leeds/M62/Wake	✓	55.42	✓	Directly entered	2250		2250	✓		Normal
Dc	1	(untitled)	Brad	✓	50.91	✓	Directly entered	2100		2100	✓		Normal
	2	(untitled)	Brad/M62W	✓	48.96	✓	Directly entered	2100		2100	✓		Normal
	3	(untitled)	Leeds	✓	47.02	✓	Directly entered	2100		2100	✓		Normal
	4	(untitled)	Leeds/M62E	✓	45.07	✓	Directly entered	2100		2100	✓		Normal
Dcf	1	(untitled)		✓	65.43	✓	Directly entered	2050		2050			Normal
	2	(untitled)		✓	65.28	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	65.54	✓	Directly entered	2100		2100			Normal
	4	(untitled)		✓	67.69	✓	Directly entered	2100		2100			Normal
	5	(untitled)		✓	66.13	✓	Directly entered	2100		2100			Normal
	6	(untitled)		✓	66.17	✓	Directly entered	2050		2050			Normal
Df	1	(untitled)			200.00	✓	Sum of lanes	1900					Normal
	2	(untitled)			200.00	✓	Directly entered	2250					Normal
Dxp	1	(untitled)		✓	45.75	✓	Directly entered	2050			✓		Normal
	2	(untitled)		✓	48.11	✓	Directly entered	2050			✓		Normal
Ec	1	(untitled)	M62W	✓	50.09	✓	Directly entered	2150		2150	✓		Normal
	2	(untitled)	Leeds	✓	48.43	✓	Directly entered	2263		2263	✓		Normal
	3	(untitled)	Leeds	✓	46.77	✓	Directly entered	2263		2263	✓		Normal
	4	(untitled)	M62E	✓	45.11	✓	Directly entered	2250		2250	✓		Normal
Ecf	1	(untitled)		✓	45.94	✓	Directly entered	2100		2100			Normal
	2	(untitled)		✓	46.37	✓	Directly entered	2100		2100			Normal
	3	(untitled)		✓	46.95	✓	Directly entered	2263		2263			Normal
	4	(untitled)		✓	47.51	✓	Directly entered	2300		2300			Normal
	5	(untitled)		✓	48.55	✓	Directly entered	2300		2300			Normal
Ef	1	(untitled)		✓	127.54	✓	Directly entered	1900					Normal

	2	(untitled)		✓	127.54	✓	Sum of lanes	1900					Normal
Exp	1	(untitled)		✓	51.83	✓	Directly entered	2050		2100	✓		Normal
	2	(untitled)		✓	53.71	✓	Directly entered	2050		2100	✓		Normal
F	1	(untitled)	Leeds	✓	85.13	✓	Directly entered	2100		2100	✓		Normal
	2	(untitled)	Wake	✓	85.72	✓	Directly entered	2100		2100	✓		Normal
	3	(untitled)	Dews/Brad	✓	87.25	✓	Directly entered	2100		2100	✓		Normal
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)		✓	77.45								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)		✓	121.44								Normal
	2	(untitled)		✓	122.12								Normal
xE	1	(untitled)		✓	173.89								Normal
	2	(untitled)		✓	173.83								Normal
xF	1	(untitled)		✓	162.53								Normal
Cc1	1	(untitled)	Wake	✓	95.84	✓	Directly entered	2050		2050	✓		Normal
E1	1	(untitled)	M62W/Leeds		80.00	✓	Directly entered	2050		1900	✓		Normal
	2	(untitled)	Leeds/M62E		80.00	✓	Directly entered	2200		2100	✓		Normal
Gf1	1	(untitled)		✓	47.81						✓		Normal
Cc2	2	(untitled)	Dews	✓	91.52	✓	Directly entered	2150		2100	✓		Normal
	3	(untitled)	Brad/M62W	✓	91.11	✓	Directly entered	2050		2050	✓		Normal
	4	(untitled)	Dews/Brad	✓	90.39	✓	Directly entered	2150		2100	✓		Normal









	2	1	(untitled)		✓	N/A	Average	0	3.70	✓	0	9999.00		1966	
	3	1	(untitled)		✓	N/A	Average	0	3.50	✓	0	9999.00		1947	
TC3	5	1	1	(untitled)											
TC3	6	1	1	(untitled)										1800	
TC3	7	1	1	(untitled)											
TC3	8	1	1	(untitled)											
TC3	9	2	1	(untitled)											
		3	1	(untitled)											
TC4	0	2	1	(untitled)											
		3	1	(untitled)											
TC4	1	1	1	(untitled)											
TC4	2	1	1	(untitled)		✓	N/A	Average	0	3.00	✓	0	9.44	✓	1771
TC4	3	1	1	(untitled)										1800	
47	1	1	1	(untitled)											
48	1	1	1	(untitled)										1965	
49	1	2	1	(untitled)											
	2	1	1	(untitled)											
50	1	1	1	(untitled)										1900	
51	1	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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Ac	1	CTM	500	100	100		0.00	✓	16.50	9999.00				
	2	CTM	500	100	100		0.00	✓	16.50	9999.00				
	3	CTM	500	100	100		0.00	✓	16.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							

	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Bc	1	CTM	500	100	100		0.00	✓	22.50	9999.00				
	2	CTM	500	100	100		0.00	✓	22.50	9999.00				
	3	CTM	500	100	100		0.00	✓	22.50	9999.00				
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	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
Cf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
D	1	CTM	0	20	100		0.00							
	2	CTM	0	20	100		0.00							
	3	CTM	0	20	100		0.00							
	4	CTM	0	20	100		0.00							
Dc	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
Dcf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
	6	CTM	100	100	100		0.00							
Df	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
Dx P	1	NetworkDe fault	100	100	100		0.00							
	2	NetworkDe fault	100	100	100		0.00							
Ec	1	CTM	500	100	100		0.00	✓	8.00	9999.00				
	2	CTM	500	100	100		0.00	✓	8.00	9999.00				
	3	CTM	500	100	100		0.00	✓	8.00	9999.00				
	4	CTM	500	100	100		0.00	✓	8.00	9999.00				
Ecf	1	CTM	100	100	100		0.00							
	2	CTM	100	100	100		0.00							
	3	CTM	100	100	100		0.00							
	4	CTM	100	100	100		0.00							
	5	CTM	100	100	100		0.00							
Ef	1	NetworkDe fault	100	100	100		0.00							



TC 35	1	CTM	100	100	100		0.00										
TC 36	1	NetworkDe fault	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	NetworkDe fault	100	100	100		0.00										
TC 43	1	NetworkDe fault	100	100	100		0.00										
47	1	CTM	100	100	100		0.00										
48	1	NetworkDe fault	100	100	100		0.00										
49	1	NetworkDe fault	100	100	100		0.00										
	2	NetworkDe fault	100	100	100		0.00										
50	1	NetworkDe fault	100	100	100		0.00										
51	1	NetworkDe fault	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	754	754
	2	754	754
	3	765	765
	4	765	765
Ac	1	693	693
	2	717	717
	3	383	383
Acf	1	1410	1410
	2	383	383
Af	1	1508	1508
	2	765	765
	3	765	765
B	1	395	395

	2	372	372
	3	363	363
	4	355	355
<b>Bc</b>	1	1031	1031
	2	1126	1126
	3	786	786
<b>Bcf</b>	1	1447	1447
	2	1471	1471
	3	1126	1126
	4	786	786
<b>Bf</b>	1	768	768
	2	717	717
<b>C</b>	1	101	101
	2	702	702
	3	299	299
<b>Cf</b>	1	637	637
	2	465	465
<b>D</b>	1	423	423
	2	246	246
	3	364	364
	4	401	401
<b>Dc</b>	1	819	819
	2	925	925
	3	459	459
	4	575	575
<b>Dcf</b>	1	900	900
	2	1229	1229
	3	819	819
	4	925	925
	5	459	459
	6	575	575
<b>Df</b>	1	669	669
	2	765	765
<b>Dxp</b>	1	900	900
	2	1229	1229
<b>Ec</b>	1	767	767
	2	705	705
	3	716	716
	4	377	377
<b>Ecf</b>	1	924	924
	2	1243	1243
	3	705	705
	4	716	716
	5	625	625
<b>Ef</b>	1	882	882
	2	630	630
<b>Exp</b>	1	924	924
	2	476	476
<b>F</b>	1	235	235
	2	397	397
	3	382	382
<b>Fc</b>	1	844	844
	2	884	884
	3	838	838
<b>Ff</b>	1	632	632

	2	382	382
G	1	438	438
	2	440	440
Gf	1	329	329
	2	301	301
xA	1	954	954
	2	833	833
xB	1	1887	1887
xC	1	767	767
	2	734	734
xD	1	900	900
	2	1229	1229
xE	1	924	924
	2	476	476
xF	1	881	881
Cc1	1	624	624
E1	1	421	421
	2	461	461
Gf1	1	247	247
Cc2	2	803	803
	3	483	483
	4	1225	1225
	5	738	738
	6	556	556
E2	3	329	329
	4	301	301
TC5	2	776	776
	3	833	833
	4	0	0
TC9	1	1286	1286
	2	765	765
	3	634	634
TC35	1	178	178
TC36	1	431	431
TC37	1	78	78
TC38	1	78	78
TC39	2	776	776
	3	833	833
TC40	2	854	854
	3	833	833
TC41	1	353	353
TC42	1	0	0
TC43	1	0	0
47	1	1501	1501
48	1	1102	1102
49	1	1342	1342
	2	1343	1343
50	1	1485	1485
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	
	4	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	
	6	769-2	D	
E2	3	770-3	H	
	4	770-3	H	
TC5	2	TC777-1	A	
	3	TC777-1	A	
	4	TC777-1	C	
TC9	1	TC777-1	B	
	2	TC777-1	B	
	3	TC777-1	B	
TC35	1	TC777-1	A	

TC37	1	TC777-2	J	
TC41	1	TC777-1	D	
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	5.58	48.00	✓	Straight	Straight Movement
	2	1	Af/1	A/2	5.75	48.00	✓	Straight	Straight Movement
	3	1	Af/2	A/3	5.88	48.00	✓	Straight	Straight Movement
	4	1	Af/3	A/4	6.01	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	4.71	48.00	✓	Nearside	68.09
	2	1	A/2	Bcf/2	6.63	34.00	✓	Nearside	71.40
	3	1	A/3	Bcf/3	6.61	34.00	✓	Nearside	74.72
	4	1	A/4	Bcf/4	6.60	34.00	✓	Nearside	78.03
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	14.73	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
	4	1	Df/2	D/4	4.16	48.00	✓	Straight	Straight Movement
Dc	1	1	Dcf/3	Dc/1	6.11	30.00	✓	Offside	56.19
	2	1	Dcf/4	Dc/2	5.88	30.00	✓	Offside	52.87
	3	1	Dcf/5	Dc/3	5.64	30.00	✓	Offside	49.56
	4	1	Dcf/6	Dc/4	5.41	30.00	✓	Offside	46.25
Dcf	1	1	Cc2/2	Dcf/1	4.91	48.00	✓	Straight	Straight Movement
	2	1	Cc2/4	Dcf/2	4.90	48.00	✓	Straight	Straight Movement
	3	1	C/2	Dcf/3	4.92	48.00	✓	Nearside	58.12
	4	1	C/2	Dcf/4	5.08	48.00	✓	Nearside	58.12
	5	1	C/3	Dcf/5	4.96	48.00	✓	Nearside	61.43
	6	1	C/3	Dcf/6	7.94	30.00	✓	Nearside	61.43
Dxp	1	1	Dcf/1	Dxp/1	3.43	48.00	✓	Nearside	60.22
	2	1	Dcf/2	Dxp/2	3.61	48.00	✓	Nearside	63.54
Ec	1	1	Ecf/2	Ec/1	3.76	48.00	✓	Offside	76.42
	2	1	Ecf/3	Ec/2	3.63	48.00	✓	Offside	73.10
	3	1	Ecf/4	Ec/3	3.51	48.00	✓	Offside	69.79
	4	1	Ecf/5	Ec/4	5.41	30.00	✓	Offside	66.48
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	3.56	48.00	✓	Offside	66.17
	5	1	Dc/4	Ecf/5	3.64	48.00	✓	Offside	62.86
Exp	1	1	Ecf/1	Exp/1	3.89	48.00	✓	Nearside	52.96
	2	1	Ecf/2	Exp/2	4.03	48.00	✓	Nearside	56.27
F	1	1	Ff/1	F/1	6.38	48.00	✓	Straight	Straight Movement
	2	1	Ff/1	F/2	6.43	48.00	✓	Straight	Straight Movement
	3	1	Ff/2	F/3	6.54	48.00	✓	Straight	Straight Movement
Fc	1	1	Ec/2	Fc/1	18.84	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

<b>G</b>	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
<b>Gf</b>	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
<b>xA</b>	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
<b>xB</b>	1	1	Bcf/1	xB/1	5.81	48.00	✓	Nearside	59.55
<b>xC</b>	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
<b>xD</b>	1	1	Dxp/1	xD/1	9.11	48.00	✓	Nearside	44.59
	2	1	Dxp/2	xD/2	9.16	48.00	✓	Nearside	47.90
<b>xE</b>	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
<b>xF</b>	1	1	Ec/1	xF/1	12.19	48.00	✓	Straight	Straight Movement
<b>Cc1</b>	1	1	B/1	Cc1/1	8.63	40.00	✓	Straight	Straight Movement
<b>E1</b>	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
<b>Gf1</b>	1	1	Ecf/5	Gf1/1	5.74	30.00	✓	Offside	21.77
<b>Cc2</b>	2	1	B/1	Cc2/2	8.24	40.00	✓	Straight	Straight Movement
	3	1	B/3	Cc2/3	8.20	40.00	✓	Straight	Straight Movement
	4	1	B/2	Cc2/4	8.14	40.00	✓	Straight	Straight Movement
	5	1	Bc/3	Cc2/5	6.03	54.00	✓	Offside	96.53
	6	1	Bc/3	Cc2/6	5.87	54.00	✓	Offside	93.22
<b>E2</b>	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
<b>TC5</b>	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
<b>TC9</b>	1	1	49/1	TC9/1	11.00	30.00	✓	Straight	Straight Movement
	2	1	49/2	TC9/2	11.07	30.00	✓	Straight	Straight Movement
	3	1	49/2	TC9/3	11.12	30.00	✓	Straight	Straight Movement
<b>TC35</b>	1	1	xA/1	TC35/1	2.90	30.00	✓	Straight	Straight Movement
<b>TC37</b>	1	1	TC36/1	TC37/1	3.19	50.00	✓	Nearside	46.04
<b>TC38</b>	1	1	TC37/1	TC38/1	1.53	50.00	✓	Straight	Straight Movement
<b>TC39</b>	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
<b>TC40</b>	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	3.95	57.00	✓	Offside	89.74
	3	2	Ac/3	Bcf/3	3.95	57.00	✓	Offside	86.42
	4	2	Ac/3	Bcf/4	3.94	57.00	✓	Offside	86.42
C	2	2	Cf/1	C/2	14.73	30.00	✓	Offside	56.58
Dcf	1	2	C/1	Dcf/1	4.91	48.00	✓	Nearside	54.80
	2	2	C/1	Dcf/2	4.90	48.00	✓	Nearside	54.80
	3	2	Cc2/3	Dcf/3	7.87	30.00	✓	Straight	Straight Movement
	4	2	Cc2/3	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
	5	2	Cc2/5	Dcf/5	7.94	30.00	✓	Offside	99.16
	6	2	Cc2/6	Dcf/6	7.94	30.00	✓	Offside	95.85
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	5.63	30.00	✓	Nearside	46.68
	4	2	D/3	Ecf/4	5.70	30.00	✓	Nearside	49.99
	5	2	D/4	Ecf/5	5.83	30.00	✓	Nearside	53.30
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
xB	1	2	Bcf/2	xB/1	9.29	30.00	✓	Nearside	60.96
xC	1	2	Cc1/1	xC/1	8.67	48.00	✓	Nearside	56.51
	2	2	Cc1/1	xC/2	8.70	48.00	✓	Nearside	57.28
xF	1	2	E1/1	xF/1	12.19	48.00	✓	Nearside	40.67
Cc1	1	2	Bc/1	Cc1/1	6.39	54.00	✓	Straight	Straight Movement
Cc2	2	2	Bc/1	Cc2/2	10.98	30.00	✓	Straight	Straight Movement
	3	2	Bc/2	Cc2/3	10.93	30.00	✓	Offside	99.84
	4	2	Bc/2	Cc2/4	6.03	54.00	✓	Straight	Straight Movement
	5	2	B/4	Cc2/5	8.14	40.00	✓	Straight	Straight Movement

	6	2	B/4	Cc2/6	7.93	40.00	✓	Straight	Straight Movement
TC9	2	2	49/1	TC9/2	11.07	30.00	✓	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
Dcf	4	3	Cc2/5	Dcf/4	8.12	30.00	✓	Straight	Straight Movement
xA	2	3	Fc/1	xA/2	17.25	48.00	✓	Straight	Straight Movement
Cc2	3	3	B/2	Cc2/3	10.93	30.00	✓	Straight	Straight Movement
	5	3	B/3	Cc2/5	10.86	30.00	✓	Straight	Straight Movement

### Give Way Data

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

### Give Way Data - All Movements - Conflicts

Traffic Stream	Description	Controlling type	Controlling traffic stream	Percentage opposing (%)	Slope coefficient	Upstream signals visible
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	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)	✓	User Equilibrium			✓								

Note: Auto Calculate disabled on this Local Matrix - Paths and Flow Allocation might not be up to date.

### Normal Input Flows (PCU/hr)

		To							
		A28	B28	C28	D28	E28	F28	G28	H28
From	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

	<b>F28</b>	126	29	67	106	25	0	78	0
	<b>G28</b>	836	345	1068	148	262	26	0	0
	<b>H28</b>	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	<b>A28</b>	(untitled)	50/1	xB/1	#FF0000
	<b>B28</b>	(untitled)	48/1	47/1	#00FF40
	<b>C28</b>	(untitled)	Df/2, Df/1	xD/1, xD/2	#804000
	<b>D28</b>	(untitled)	51/1	xF/1	#FF00FF
	<b>E28</b>	(untitled)	Ef/2, Ef/1	xE/1, xE/2	#FF8000
	<b>F28</b>	(untitled)	TC36/1	TC35/1	#FFA500
	<b>G28</b>	(untitled)	49/2, 49/1	TC40/2, TC40/3	#0000FF
	<b>H28</b>	(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	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	444
	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	130
	92		E28	F28	Ef/1, E1/1, Fc/1, xA/1, TC35/1	Normal	9
	100		E28	B28	Ef/2, E2/4, Gf/2, G/2, xC/2, 47/1	Normal	301
	102		A28	C28	50/1, Bf/1, B/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	337
	103		F28	B28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Fixed	0
	105		D28	H28	51/1, Ff/1, F/1, xA/2, TC5/4, TC43/1	Normal	0
	107		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/2, 47/1	Normal	58
	110		E28	G28	Ef/1, E1/1, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	37
	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	6
	115		B28	C28	48/1, Cf/1, C/1, Dcf/2, Dxp/2, xD/2	Fixed	4
	125		H28	A28	TC42/1, Af/1, A/1, Bcf/1, xB/1	Normal	0
130		G28	C28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	708	
137		H28	G28	TC42/1, TC39/2, TC40/2	Normal	0	

138		H28	G28	TC42/1, TC39/3, TC40/3	Normal	0
140		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	238
141		B28	F28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	13
142		B28	G28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	29
143		E28	H28	Ef/1, E1/1, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
144		B28	G28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
145		B28	H28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
146		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
147		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
148		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
149		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	19
150		E28	B28	Ef/2, E2/3, Gf/1, G/1, xC/1, 47/1	Normal	329
151		B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	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	Normal	0
155		G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
156		G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	59
157		H28	B28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
158		A28	G28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	352
159		A28	H28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
160		B28	D28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	182
161		B28	E28	48/1, Cf/1, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
162		B28	D28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
163		B28	E28	48/1, Cf/2, C/2, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
164		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
165		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
166		B28	C28	48/1, Cf/1, C/1, Dcf/1, Dxp/1, xD/1	Normal	97
167		A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
168		G28	A28	49/1, TC9/1, Af/1, A/1, Bcf/1, xB/1	Normal	748
169		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	49
170		G28	B28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	98
171		G28	H28	49/1, TC9/1, TC43/1	Normal	0

172		H28	E28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
173		F28	D28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	106
174		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
175		A28	D28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
176		H28	C28	TC42/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
177		H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
178		B28	E28	48/1, Cf/1, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	354
179		B28	E28	48/1, Cf/2, C/2, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	166
180		A28	H28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
181		F28	C28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	67
182		G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
183		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
184		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	45
185		A28	B28	50/1, Bf/1, B/1, Cc1/1, xC/1, 47/1	Normal	0
186		A28	C28	50/1, Bf/1, B/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	99
187		G28	D28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
188		A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
189		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
190		G28	D28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
191		D28	F28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
192		D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
193		D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
194		H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
195		D28	G28	51/1, Ff/1, F/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	121
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	Normal	59
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	252
200		D28	B28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	138
201		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
202		F28	D28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
203		F28	E28	TC36/1, TC41/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
205		A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	171

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
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	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	Normal	362
249	H28	C28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/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	0
283	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
284	E28	B28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
285	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
286	E28	B28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
307	G28	C28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	57
317	C28	G28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	319
318	C28	H28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
319	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
320	C28	B28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
322	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	226
323	C28	F28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	20
324	C28	G28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
325	C28	H28	Df/1, D/2, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
330	C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	176
331	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
332	C28	B28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
334	C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/4, Dcf/2, Dxp/2, xD/2	Normal	0
342	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	46
343	C28	B28	Df/2, D/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
364	B28	H28	48/1, Cf/2, C/3, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
379	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0
380	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
381	B28	B28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
382	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
383	G28	B28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	139
384	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/1, Bcf/1, xB/1	Normal	0
385	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/1, 47/1	Normal	0

386	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc1/1, xC/2, 47/1	Normal	0
387	A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/1, Bcf/1, xB/1	Normal	3
388	A28	B28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
389	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
390	E28	B28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
391	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
392	D28	H28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
393	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	3
394	D28	B28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
395	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
396	H28	B28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
397	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
398	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, xA/2, TC5/4, TC43/1	Normal	0
399	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/1, xC/1, 47/1	Normal	0
400	F28	B28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/6, Dcf/6, Dc/4, Ecf/5, Gf1/1, G/2, xC/2, 47/1	Normal	0
401	G28	F28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	26
402	G28	G28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
403	G28	H28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
404	A28	G28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
405	A28	F28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
406	A28	H28	50/1, Bf/2, B/4, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
407	D28	G28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
408	H28	F28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
409	H28	G28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
410	H28	H28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
411	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	0
412	F28	F28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	0
413	F28	G28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	0
414	F28	H28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/4, TC43/1	Normal	0
415	A28	D28	50/1, Bf/2, B/3, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	13
417	A28	E28	50/1, Bf/2, B/3, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	25
418	G28	C28	49/1, TC9/1, Af/1, A/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	303
423	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

424		C28	C28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	0
425		E28	C28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	78
428		E28	C28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	16
431		D28	C28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, Bc/1, Cc2/2, Dcf/1, Dxp/1, xD/1	Normal	1
439		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
440		G28	E28	49/2, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
441		G28	E28	49/1, TC9/2, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
442		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
443		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
444		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
445		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
446		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
447		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
448		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	0
449		H28	D28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
450		H28	E28	TC42/1, Af/2, A/3, Bcf/3, Bc/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
451		G28	D28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	148
452		G28	E28	49/2, TC9/3, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	262
453		A28	D28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
454		A28	E28	50/1, Bf/2, B/4, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
455		E28	D28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
456		E28	E28	Ef/1, E1/2, Fc/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	1
457		D28	D28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
458		D28	E28	51/1, Ff/2, F/3, Acf/2, Ac/3, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	17
459		H28	D28	TC42/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
460		F28	E28	TC36/1, TC41/1, Af/3, A/4, Bcf/4, Bc/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	25
461		A28	E28	50/1, Bf/2, B/3, Cc2/5, Dcf/4, Dc/2, Ecf/2, Exp/2, xE/2	Normal	0
462		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC5/2, TC39/2, TC40/2	Normal	62
463		A28	F28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/1, TC35/1	Normal	55
464		A28	G28	50/1, Bf/2, B/3, Cc2/5, Dcf/5, Dc/3, Ecf/3, Ec/2, Fc/1, xA/2, TC5/3, TC39/3, TC40/3	Normal	37
465		A28	E28	50/1, Bf/1, B/2, Cc2/3, Dcf/3, Dc/1, Ecf/1, Exp/1, xE/1	Normal	274
466		A28	D28	50/1, Bf/1, B/2, Cc2/3, Dcf/4, Dc/2, Ecf/2, Ec/1, xF/1	Normal	0
467		G28	A28	49/1, TC9/1, Af/1, A/2, Bcf/2, xB/1	Normal	88

468		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
469		A28	A28	50/1, Bf/2, B/4, Cc2/6, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
470		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
471		B28	A28	48/1, Cf/2, C/3, Dcf/6, Dc/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
472		C28	A28	Df/2, D/3, Ecf/4, Ec/3, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
473		C28	A28	Df/2, D/4, Ecf/5, Ec/4, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	179
474		E28	A28	Ef/1, E1/1, Fc/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	53
475		E28	A28	Ef/1, E1/2, Fc/3, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
476		D28	A28	51/1, Ff/1, F/2, Acf/1, Ac/2, Bcf/2, xB/1	Normal	0
477		H28	A28	TC42/1, Af/1, A/2, Bcf/2, xB/1	Normal	0
478		F28	A28	TC36/1, TC41/1, Af/1, A/2, Bcf/2, xB/1	Normal	120

## 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 (%)	Journey Time (s)
16:30-17:30	A	1	(untitled)	E	703	2050	20	718	98	-8	73.00	19.24	148.77	78.58
		2	(untitled)	E	718	2050	20	718	100	-10	91.65	24.09	180.59	97.40
		3	(untitled)	E	718	2050	20	718	100	-10	102.59	24.50	179.72	108.47
		4	(untitled)	E	718	2050	20	718	100	-10	110.16	26.82	192.51	116.16
	Ac	1	(untitled)	D	687	2263	30	1169	59	53	9.97	5.06	30.38	17.16
		2	(untitled)	D	602	2263	30	1120	54	67	15.07	5.66	35.22	24.56
		3	(untitled)	D	281	2263	30	1166	24	273	11.32	2.51	16.42	17.91
Acf	1	(untitled)		1289	2263	60	2263	57	58	1.05	0.38	3.11	6.27	

	2	(untitled)		281	2263	60	2263	12	625	0.11	0.01	0.07	7.36
Af	1	(untitled)		1421	2050	60	1942	73	23	3.47	8.77	94.23	9.90
	2	(untitled)		718	2050	60	718	100	-10	81.70	21.59	233.36	88.08
	3	(untitled)		718	2050	60	718	100	-10	84.39	21.60	234.29	90.76
B	1	(untitled)	B	330	2050	11	410	80	12	47.04	7.05	42.80	54.14
	2	(untitled)	B	311	2150	11	311	100	-10	256.04	24.58	145.43	263.32
	3	(untitled)	B	303	2100	11	372	81	11	38.90	5.43	31.32	46.38
	4	(untitled)	B	296	2050	11	410	72	25	32.25	4.85	27.22	44.54
Bc	1	(untitled)	A	885	2050	37	1298	68	32	6.57	8.73	37.80	18.52
	2	(untitled)	A	983	2050	37	1298	76	19	5.72	5.15	22.53	17.56
	3	(untitled)	A	733	2050	37	1298	56	59	1.84	0.50	2.22	13.54
Bcf	1	(untitled)		1390	2263	60	2263	61	46	1.26	0.49	4.47	5.60
	2	(untitled)		1319	2263	60	2263	58	54	1.11	0.41	3.73	6.52
	3	(untitled)		983	2263	60	2263	43	107	0.61	0.17	1.53	6.50
	4	(untitled)		733	2263	60	2263	32	178	0.38	0.08	0.72	6.93
Bf	1	(untitled)		641	1800	60	687	93	-3	159.20	44.16	111.47	186.54
	2	(untitled)		599	1800	60	1800	33	170	0.50	0.08	0.21	27.91
C	1	(untitled)	G	81	2100	15	560	15	521	17.53	1.46	6.94	32.07
	2	(untitled)	G	564	2200	15	587	96	-6	139.68	27.38	128.26	154.41
	3	(untitled)	G	240	2050	15	547	44	105	27.66	4.18	19.32	42.58
Cf	1	(untitled)		512	1965	60	512	100	-10	202.72	35.47	141.06	220.07
	2	(untitled)		374	1965	60	1084	35	161	8.55	4.96	19.54	26.06
D	1	(untitled)	B	423	2050	16	581	73	24	27.55	6.54	68.36	31.68
	2	(untitled)	B	246	1850	16	524	47	92	20.81	3.28	34.31	24.93
	3	(untitled)	B	364	2250	16	638	57	58	22.12	5.18	56.30	26.09
	4	(untitled)	B	401	2250	16	638	63	43	23.50	5.79	60.11	27.66
Dc	1	(untitled)	A	668	2100	34	1225	54	65	14.23	7.92	89.41	20.34
	2	(untitled)	A	824	2100	34	1225	67	34	8.38	7.76	91.14	14.25
	3	(untitled)	A	378	2100	34	1225	31	192	4.73	2.28	27.92	10.37
	4	(untitled)	A	497	2100	34	1225	41	122	7.68	6.02	76.74	13.09
Dcf	1	(untitled)		803	2050	60	2050	39	130	0.57	0.13	1.11	5.47
	2	(untitled)		1069	2100	60	2100	51	77	0.89	0.26	2.32	5.78

		3	(untitled)		668	2100	60	2100	32	183	0.40	0.07	0.65	6.42
		4	(untitled)		824	2100	60	1933	43	111	1.65	3.63	30.82	9.23
		5	(untitled)		378	2100	60	2100	18	400	0.19	0.02	0.17	6.35
		6	(untitled)		497	2050	60	2050	24	271	0.28	0.04	0.34	8.22
	Df	1	(untitled)		669	1900	60	1900	35	156	0.51	0.10	0.27	24.51
		2	(untitled)		765	2250	60	2250	34	165	0.41	0.09	0.25	24.41
	Dxp	1	(untitled)	D	768	2050	42	1469	52	72	2.76	1.50	18.80	6.19
		2	(untitled)	D	1069	2050	42	1469	73	24	3.30	1.03	12.35	6.91
	Ec	1	(untitled)	F	718	2150	36	1326	54	66	5.67	4.96	56.96	9.43
		2	(untitled)	F	624	2263	36	1396	45	101	5.64	5.65	67.12	9.27
		3	(untitled)	F	658	2263	36	1396	47	91	1.15	0.21	2.58	4.66
		4	(untitled)	F	373	2250	36	1388	27	235	0.60	0.26	3.30	6.01
	Ecf	1	(untitled)		773	2100	60	2097	37	144	0.51	4.75	59.44	3.96
		2	(untitled)		1142	2100	60	2100	54	66	1.02	0.32	4.01	4.50
		3	(untitled)		624	2263	60	2214	28	219	0.37	2.07	25.37	4.73
		4	(untitled)		658	2300	60	2300	29	215	0.31	0.06	0.69	5.06
		5	(untitled)		604	2300	60	2300	26	243	0.28	0.05	0.55	5.37
	Ef	1	(untitled)		882	1900	60	1900	46	94	0.82	0.20	0.91	16.13
		2	(untitled)		630	1900	60	796	79	14	24.48	14.59	65.78	39.79
	Exp	1	(untitled)	L	773	2050	41	1435	54	67	3.37	5.00	55.45	7.25
		2	(untitled)	L	424	2050	41	1435	30	205	0.53	0.06	0.66	4.55
	F	1	(untitled)	B	166	2100	7	280	59	52	43.70	3.18	21.51	50.09
		2	(untitled)	B	280	2100	7	280	100	-10	256.54	21.81	146.28	262.96
		3	(untitled)	B	280	2100	7	280	100	-10	256.54	21.81	143.72	263.08
	Fc	1	(untitled)	A	763	2263	43	1660	46	96	10.05	10.50	32.95	29.21
		2	(untitled)	A	826	2263	43	1629	51	77	6.29	6.33	20.05	25.31
		3	(untitled)	A	834	2263	43	1495	56	61	7.10	6.84	21.83	26.61
	Ff	1	(untitled)		446	1900	60	446	100	-10	377.56	57.90	120.74	410.65
		2	(untitled)		269	1900	60	280	96	-6	224.13	19.18	40.05	257.17
	G	1	(untitled)	F	398	2050	15	398	100	-10	271.07	34.86	129.01	287.05
		2	(untitled)	F	398	2050	15	413	96	-7	159.02	25.10	95.09	170.41
	Gf	1	(untitled)		295	2050	60	295	100	-10	140.32	14.88	211.33	143.35

	2	(untitled)		270	2050	60	2050	13	584	0.13	2.33	33.43	3.14
xA	1	(untitled)		833	2263	60	2263	37	145	0.46	0.11	0.27	17.69
	2	(untitled)		746	2263	60	2263	33	173	0.39	0.08	0.20	17.64
xB	1	(untitled)		1824	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	6.64
xC	1	(untitled)		650	1900	60	650	100	-10	126.06	29.84	148.42	134.73
	2	(untitled)		650	1900	60	650	100	-10	124.68	29.79	147.72	133.37
xD	1	(untitled)		768	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.11
	2	(untitled)		1069	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	9.16
xE	1	(untitled)		773	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
	2	(untitled)		424	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	13.04
xF	1	(untitled)		832	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	12.19
Cc1	1	(untitled)	E	489	2050	30	1058	46	95	10.57	3.33	19.95	17.18
E1	1	(untitled)	G	421	2050	13	478	88	2	46.71	8.78	63.08	52.71
	2	(untitled)	G	461	2200	13	513	90	0	48.89	10.36	74.46	54.89
Gf1	1	(untitled)		231	676	60	257	90	0	66.66	6.95	83.57	72.39
Cc2	2	(untitled)	D	725	2150	31	1128	64	40	6.80	6.03	37.88	16.71
	3	(untitled)	D	403	2050	31	1093	37	144	7.95	8.40	53.01	17.70
	4	(untitled)	D	1065	2150	31	1143	93	-3	21.58	8.59	54.65	27.77
	5	(untitled)	D	676	2050	31	1093	62	45	4.12	2.90	18.42	11.07
	6	(untitled)	D	482	2050	31	1093	44	104	7.58	6.75	44.09	14.72
E2	3	(untitled)	H	295	2150	13	295	100	-10	171.14	15.18	163.88	175.14
	4	(untitled)	H	270	2050	13	478	56	59	35.88	3.81	40.29	39.95
TC5	2	(untitled)	A	684	2263	35	1396	49	83	3.66	2.40	59.98	6.42
	3	(untitled)	A	746	2263	35	1396	53	68	2.08	0.92	23.05	4.85
	4	(untitled)	C	0	0	0	0	0	-100	0.00	0.00	0.00	0.00
TC9	1	(untitled)	B	1199	1925	36	1199	100	-10	68.58	32.76	205.43	79.58
	2	(untitled)	B	708	1966	36	718	99	-9	85.13	22.78	142.03	96.19
	3	(untitled)	B	587	1947	36	587	100	-10	137.51	27.57	171.03	148.63
TC35	1	(untitled)	A	148	1900	35	1172	13	611	0.90	0.16	3.79	3.80
TC36	1	(untitled)		431	1800	60	1800	24	276	0.31	0.04	0.86	3.34
TC37	1	(untitled)	J	78	1850	43	1357	6	1465	2.35	0.35	4.52	5.54
TC38	1	(untitled)		78	445	60	445	18	414	3.98	2.43	65.65	5.52

	TC39	2	(untitled)		684	2263	60	2263	30	198	0.34	0.07	1.07	2.88
		3	(untitled)		746	2263	60	2263	33	173	0.39	0.08	1.40	2.79
	TC40	2	(untitled)		762	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.23
		3	(untitled)		746	Unrestricted	60	Unrestricted	0	Unrestricted	0.00	0.00	0.00	4.02
	TC41	1	(untitled)	D	353	1850	14	463	76	18	32.98	6.14	64.67	36.91
	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	886	124	-28	371.63	124.51	1298.74	378.25
	49	1	(untitled)		1343	1900	60	1252	107	-16	145.85	72.03	1578.29	149.00
		2	(untitled)		1342	1900	60	1241	108	-17	155.04	76.09	1667.12	158.19
	50	1	(untitled)		1486	1900	60	1240	120	-25	311.27	145.81	1741.34	317.05
	51	1	(untitled)		1014	1900	60	715	142	-37	543.19	162.12	2487.95	547.69

## 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	27	0	33	1	7
	2	✓	2	B	11	22	11	1	7
769-2	1	✓	4	D,E,H,I	29	51	22	1	1
	2	✓	5	F,G,J,K	5	14	9	1	7
770-1	1	✓	1	A,C	49	21	32	1	5
	2	✓	2	B	28	44	16	1	7
770-2	1	✓	4	D	28	10	42	1	7
	2	✓	5	E	15	21	6	1	5
770-3	1	✓	7	F,I,J	33	4	31	1	2
	2	✓	9	G,H	15	21	6	1	1
770-4	1	✓	11	L	52	33	41	1	7
	2	✓	12	M	38	45	7	1	6
771-1	1	✓	1	A,C	5	42	37	1	9
	2	✓	3	B	53	0	7	1	7
771-2	1	✓	5	D	40	10	30	1	7
	2	✓	6	E	15	35	20	1	7
TC777-1	1	✓	1	A,B,F	10	45	35	1	7
	2	✓	5	D,H,I	52	4	12	1	6
TC777-2	1	✓	1	J	16	59	43	1	7
	2	✓	2	K	4	11	7	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
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	✓	74.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	2	✓	76.69	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0

	3	✓	78.40	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
	4	✓	80.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Ac	1	✓	95.80	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	92.34	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	87.95	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	20	0
	2	✓	97.18	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	3	✓	99.69	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	4	✓	102.42	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
Bc	1	✓	132.85	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	2	✓	131.47	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	3	✓	130.10	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
Bcf	1	✓	62.77	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	2	✓	62.62	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	3	✓	62.46	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	62.38	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	20	0
	2	✓	122.73	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
	3	✓	124.35	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	20	0
	2		55.00	CTM	0.00	Normal	✓	✓		Directly entered	1850	20	0
	3	✓	52.87	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0
	4	✓	55.42	CTM	0.00	Normal	✓	✓		Directly entered	2250	20	0

Dc	1	✓	50.91	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	2	✓	48.96	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	3	✓	47.02	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
	4	✓	45.07	CTM	0.00	Normal	✓	✓		Directly entered	2100	100	500
Dcf	1	✓	65.43	CTM	0.00	Normal	✓			Directly entered	2050	100	100
	2	✓	65.28	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	3	✓	65.54	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	4	✓	67.69	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	5	✓	66.13	CTM	0.00	Normal	✓			Directly entered	2100	100	100
	6	✓	66.17	CTM	0.00	Normal	✓			Directly entered	2050	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	✓	45.75	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	48.11	NetworkDefault	0.00	Normal	✓	✓		Directly entered	2050	100	100
Ec	1	✓	50.09	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	2	✓	48.43	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	3	✓	46.77	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	4	✓	45.11	CTM	0.00	Normal	✓	✓		Directly entered	2250	100	500
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	✓	46.95	CTM	0.00	Normal	✓			Directly entered	2263	100	100
	4	✓	47.51	CTM	0.00	Normal	✓			Directly entered	2300	100	100
	5	✓	48.55	CTM	0.00	Normal	✓			Directly entered	2300	100	100
Ef	1	✓	127.54	NetworkDefault	0.00	Normal	✓			Directly entered	1900	100	100
	2	✓	127.54	NetworkDefault	0.00	Normal	✓			Sum of lanes	1900	100	100
Exp	1	✓	51.83	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
	2	✓	53.71	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	100
F	1	✓	85.13	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	2	✓	85.72	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
	3	✓	87.25	CTM	0.00	Normal	✓	✓		Directly entered	2100	20	0
Fc	1	✓	183.21	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
	2	✓	181.45	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500

	3	✓	180.28	CTM	0.00	Normal	✓	✓		Directly entered	2263	100	500
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	500
	2	✓	151.80	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
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	✓	77.45	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	✓	121.44	NetworkDefault	0.00	Normal						100	100
	2	✓	122.12	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	20	0
	2		80.00	CTM	0.00	Normal	✓	✓		Directly entered	2200	20	0
Gf1	1	✓	47.81	NetworkDefault	0.00	Normal			✓			100	100
Cc2	2	✓	91.52	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	3	✓	91.11	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	4	✓	90.39	CTM	0.00	Normal	✓	✓		Directly entered	2150	100	500
	5	✓	90.48	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
	6	✓	88.08	CTM	0.00	Normal	✓	✓		Directly entered	2050	100	500
E2	3	✓	53.28	CTM	0.00	Normal	✓	✓		Directly entered	2150	20	0
	4	✓	54.33	CTM	0.00	Normal	✓	✓		Directly entered	2050	20	0
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	✓	92.21	CTM	0.00	Normal	✓	✓		Sum of lanes	1966	100	100
	3	✓	92.69	CTM	0.00	Normal	✓	✓		Sum of lanes	1947	100	100
TC3	5	1	✓	24.16	CTM	0.00	Normal	✓	✓	Directly entered	1900	100	100
TC3	6	1	✓	25.22	NetworkDefault	0.00	Normal	✓		Sum of lanes	1800	100	100
TC3	7	1	✓	44.32	CTM	0.00	Normal	✓	✓	Directly entered	1850	100	100
TC3	8	1	✓	21.32	CTM	0.00	Normal	✓		Directly entered	1850	100	100
TC3	9	2	✓	35.24	CTM	0.00	Normal	✓		Directly entered	2263	100	100
	3	✓	33.28	CTM	0.00	Normal	✓			Directly entered	2263	100	100
TC4	0	2	✓	58.74	PDM	0.00	Normal					100	100
	3	✓	55.82	PDM	0.00	Normal						100	100
TC4	1	1	✓	54.63	CTM	0.00	Normal	✓	✓	Directly entered	1850	100	100
TC4	2	1	✓	23.35	NetworkDefault	0.00	Normal	✓	✓	Sum of lanes	1771	100	100
TC4	3	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	6	0.00	0.00
		2	0	0	6	0.00	0.00
	2	1	0	0	32	0.00	0.00
		2	0	0	32	0.00	0.00
	3	1	0	0	7	0.00	0.00
		2	0	0	7	0.00	0.00
	4	1	0	0	35	0.00	0.00
		2	0	0	35	0.00	0.00
	5	1	0	0	35	0.00	0.00
		2	0	0	35	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	37	0.00	0.00

		2	0	0	37	0.00	0.00
8	1	0	0	33	0.00	0.00	
	2	0	0	33	0.00	0.00	
9	1	0	0	12	0.00	0.00	
	2	0	0	12	0.00	0.00	
10	1	0	0	17	0.00	0.00	
	2	0	0	17	0.00	0.00	
11	1	0	0	28	0.00	0.00	
	2	0	0	28	0.00	0.00	
12	1	0	0	28	0.00	0.00	
	2	0	0	28	0.00	0.00	
13	1	0	0	14	0.00	0.00	
	2	0	0	14	0.00	0.00	
14	1	0	0	36	0.00	0.00	
	2	0	0	36	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	12	0.00	0.00	
	2	0	0	12	0.00	0.00	
17	1	0	0	7	0.00	0.00	
	2	0	0	7	0.00	0.00	

## Collections

### Point to Point Journey Time

Note: Auto Calculate disabled on this Local Matrix (Paths and Flow Allocation might not be up to date).

#### Average Journey Time (s) for Local Matrix: 1

	To								
	A28	B28	C28	D28	E28	F28	G28	H28	
From	A28	453.9	780.0	647.0	456.9	679.3	489.6	491.5	0.0
	B28	552.4	0.0	664.8	807.8	737.0	531.1	539.1	0.0
	C28	143.6	610.9	0.0	79.1	91.7	116.3	122.4	0.0
	D28	1242.4	1501.8	1173.4	0.0	1179.7	1029.2	1037.4	0.0
	E28	122.6	655.3	180.2	81.0	201.5	122.4	131.6	0.0
	F28	158.1	370.8	198.2	329.5	328.9	0.0	18.6	0.0
	G28	331.8	840.0	485.9	598.4	583.9	619.6	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)
32	C28	E28	105	91.65	526.66	0.00	0.00	0.00	105	91.65	526.66
36	C28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
41	E28	A28	444	122.64	693.45	0.00	0.00	0.00	444	122.64	693.45
49	C28	D28	318	79.10	514.00	0.00	0.00	0.00	318	79.10	514.00
50	E28	D28	114	81.02	370.08	0.00	0.00	0.00	114	81.02	370.08
68	E28	G28	130	131.67	737.43	0.00	0.00	0.00	130	131.67	737.43
92	E28	F28	9	122.41	644.57	0.00	0.00	0.00	9	122.41	644.57
100	E28	B28	301	448.98	623.35	0.00	0.00	0.00	301	448.98	623.35
102	A28	C28	337	595.51	694.76	0.00	0.00	0.00	337	595.51	694.76

103	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
105	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
107	A28	B28	58	780.02	716.08	0.00	0.00	0.00	58	780.02	716.08
110	E28	G28	37	131.31	731.08	0.00	0.00	0.00	37	131.31	731.08
112	F28	G28	78	18.63	149.60	0.00	0.00	0.00	78	18.63	149.60
113	F28	A28	6	137.20	347.96	0.00	0.00	0.00	6	137.20	347.96
115	B28	C28	4	666.46	556.36	0.00	0.00	0.00	4	666.46	556.36
125	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
130	G28	C28	708	521.75	769.88	0.00	0.00	0.00	708	521.75	769.88
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
140	B28	G28	238	539.07	1063.74	0.00	0.00	0.00	238	539.07	1063.74
141	B28	F28	13	531.08	970.89	0.00	0.00	0.00	13	531.08	970.89
142	B28	G28	29	538.95	1059.16	0.00	0.00	0.00	29	538.95	1059.16
143	E28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
144	B28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
145	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
146	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
147	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
148	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
149	B28	A28	19	558.23	1016.14	0.00	0.00	0.00	19	558.23	1016.14
150	E28	B28	329	843.82	625.89	0.00	0.00	0.00	329	843.82	625.89
151	B28	B28	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	370.81	750.62	0.00	0.00	0.00	29	370.81	750.62
154	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
155	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
156	G28	B28	59	1115.46	1144.80	0.00	0.00	0.00	59	1115.46	1144.80
157	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
158	A28	G28	352	489.74	1196.15	0.00	0.00	0.00	352	489.74	1196.15
159	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
160	B28	D28	182	807.80	698.10	0.00	0.00	0.00	182	807.80	698.10
161	B28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
162	B28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
163	B28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
164	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
165	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
166	B28	C28	97	664.77	553.47	0.00	0.00	0.00	97	664.77	553.47
167	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
168	G28	A28	748	329.03	386.06	0.00	0.00	0.00	748	329.03	386.06
169	G28	B28	49	570.29	788.72	0.00	0.00	0.00	49	570.29	788.72
170	G28	B28	98	568.51	789.10	0.00	0.00	0.00	98	568.51	789.10
171	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
172	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
173	F28	D28	106	329.55	871.57	0.00	0.00	0.00	106	329.55	871.57
174	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
175	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
176	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
177	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
178	B28	E28	354	803.04	710.57	0.00	0.00	0.00	354	803.04	710.57
179	B28	E28	166	597.16	711.82	0.00	0.00	0.00	166	597.16	711.82
180	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
181	F28	C28	67	198.21	729.68	0.00	0.00	0.00	67	198.21	729.68
182	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
183	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
184	C28	A28	45	140.37	834.22	0.00	0.00	0.00	45	140.37	834.22

185	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
186	A28	C28	99	823.04	699.04	0.00	0.00	0.00	99	823.04	699.04
187	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
188	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
189	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
190	G28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
191	D28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
192	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
193	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
194	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
195	D28	G28	121	1037.61	744.99	0.00	0.00	0.00	121	1037.61	744.99
196	D28	F28	55	1029.23	652.14	0.00	0.00	0.00	55	1029.23	652.14
197	D28	G28	59	1037.11	740.41	0.00	0.00	0.00	59	1037.11	740.41
198	D28	A28	6	1255.10	704.54	0.00	0.00	0.00	6	1255.10	704.54
199	D28	B28	252	1500.79	1101.39	0.00	0.00	0.00	252	1500.79	1101.39
200	D28	B28	138	1499.01	1101.77	0.00	0.00	0.00	138	1499.01	1101.77
201	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
202	F28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
203	F28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
205	A28	E28	171	456.97	857.96	0.00	0.00	0.00	171	456.97	857.96
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
246	E28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
248	D28	C28	362	1172.85	1078.32	0.00	0.00	0.00	362	1172.85	1078.32
249	H28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
252	F28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
283	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
284	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
285	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
286	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
307	G28	C28	57	510.55	769.88	0.00	0.00	0.00	57	510.55	769.88
317	C28	G28	319	121.11	870.70	0.00	0.00	0.00	319	121.11	870.70
318	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
319	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
320	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
322	C28	G28	226	124.33	880.26	0.00	0.00	0.00	226	124.33	880.26
323	C28	F28	20	116.34	787.41	0.00	0.00	0.00	20	116.34	787.41
324	C28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
325	C28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
330	C28	A28	176	140.94	834.99	0.00	0.00	0.00	176	140.94	834.99
331	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
332	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
334	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
342	C28	B28	46	610.93	756.38	0.00	0.00	0.00	46	610.93	756.38
343	C28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
364	B28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
379	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
380	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
381	B28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
382	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
383	G28	B28	139	1008.42	1141.62	0.00	0.00	0.00	139	1008.42	1141.62
384	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
385	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
386	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
387	A28	A28	3	502.05	1157.89	0.00	0.00	0.00	3	502.05	1157.89
388	A28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00

389	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
390	E28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
391	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
392	D28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
393	D28	B28	3	1696.84	1451.24	0.00	0.00	0.00	3	1696.84	1451.24
394	D28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
395	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
396	H28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
397	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
398	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
399	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
400	F28	B28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
401	G28	F28	26	619.59	1180.56	0.00	0.00	0.00	26	619.59	1180.56
402	G28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
403	G28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
404	A28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
405	A28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
406	A28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
407	D28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
408	H28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
409	H28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
410	H28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
411	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
412	F28	F28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
413	F28	G28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
414	F28	H28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
415	A28	D28	13	456.92	843.04	0.00	0.00	0.00	13	456.92	843.04
417	A28	E28	25	460.68	855.50	0.00	0.00	0.00	25	460.68	855.50
418	G28	C28	303	397.55	767.78	0.00	0.00	0.00	303	397.55	767.78
423	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
424	C28	C28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
425	E28	C28	78	179.48	1070.52	0.00	0.00	0.00	78	179.48	1070.52
428	E28	C28	16	183.75	1069.36	0.00	0.00	0.00	16	183.75	1069.36
431	D28	C28	1	1321.19	1080.45	0.00	0.00	0.00	1	1321.19	1080.45
439	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
440	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
441	G28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
442	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
443	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
444	E28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
445	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
446	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
447	D28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
448	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
449	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
450	H28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
451	G28	D28	148	598.41	910.65	0.00	0.00	0.00	148	598.41	910.65
452	G28	E28	262	583.89	925.57	0.00	0.00	0.00	262	583.89	925.57
453	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
454	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
455	E28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
456	E28	E28	1	201.46	1219.72	0.00	0.00	0.00	1	201.46	1219.72
457	D28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
458	D28	E28	17	1179.70	1232.00	0.00	0.00	0.00	17	1179.70	1232.00
459	H28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
460	F28	E28	25	328.90	886.49	0.00	0.00	0.00	25	328.90	886.49

461	A28	E28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
462	A28	G28	62	497.63	1205.17	0.00	0.00	0.00	62	497.63	1205.17
463	A28	F28	55	489.64	1112.32	0.00	0.00	0.00	55	489.64	1112.32
464	A28	G28	37	497.51	1200.59	0.00	0.00	0.00	37	497.51	1200.59
465	A28	E28	274	838.44	852.36	0.00	0.00	0.00	274	838.44	852.36
466	A28	D28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
467	G28	A28	88	355.02	388.25	0.00	0.00	0.00	88	355.02	388.25
468	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
469	A28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
470	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
471	B28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
472	C28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
473	C28	A28	179	147.08	831.37	0.00	0.00	0.00	179	147.08	831.37
474	E28	A28	53	122.64	690.99	0.00	0.00	0.00	53	122.64	690.99
475	E28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
476	D28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
477	H28	A28	0	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00
478	F28	A28	120	159.14	350.15	0.00	0.00	0.00	120	159.14	350.15

## Final Prediction Table

### Traffic Stream Results

				SIGNALS		FLOWS		PERFORMANCE				PER PCU		QUEUES	WEIGHTS		PENALTIES	P.I.	
Arm	Traffic Stream	Name	Traffic no de	Cont roller stream	Phase	Calcu lated flow entering (PCU /hr)	Calcu lated sat flow (PCU/ hr)	Act ual gre en (s per cycle)	Waste d time total (s per cycle)	Degr ee of saturation (%)	Practi cal reserve capacity (%)	Journ eyTime (s)	Me an Delay per Veh (s)	Me an stops per Veh (%)	Mea n max que ue (PC U)	Del ay weig hting multi plier (%)	Stop weig hting multi plier (%)	Cost of traffic penalt ies (£ per hr)	P.I.
A	1	(untitled)	6	771-2	E	703 <	2050	20	0.00	98	-8	78.58	73.00	14.441	19.24+	20	0	0.00	40.50
	2	(untitled)	6	771-2	E	718 <	2050	20	0.00	100	-10	97.40	91.65	17.729	24.09+	20	0	0.00	51.88
	3	(untitled)	6	771-2	E	718 <	2050	20	0.00	100	-10	108.47	10.259	17.872	24.50+	20	0	0.00	58.07
	4	(untitled)	6	771-2	E	718 <	2050	20	0.00	100	-10	116.16	11.016	19.669	26.82+	20	0	0.00	62.35
Ac	1	(untitled)	6	771-2	D	687	2263	30	10.00	59	53	17.16	9.97	40.66	5.06	100	500	0.00	71.85
	2	(untitled)	6	771-2	D	602	2263	30	5.32	54	67	24.56	15.07	57.22	5.66	100	500	0.00	65.15
	3	(untitled)	6	771-2	D	281	2263	30	23.09	24	273	17.91	11.32	41.50	2.51	100	500	0.00	31.26
Ac f	1	(untitled)	6			1289	2263	60	24.00	57	58	6.27	1.05	0.00	0.38	100	100	0.00	5.34
	2	(untitled)	6			281	2263	60	52.00	12	625	7.36	0.11	0.00	0.01	100	100	0.00	0.12
Af	1	(untitled)	6			1421	2050	60	9.15	73	23	9.90	3.47	20.61	8.77	100	100	0.00	23.13
	2	(untitled)	6			718 <	2050	60	39.00	100	-10	88.08	81.70	16.463	21.59+	100	100	0.00	246.03

	3	(untitled)	6			718 <	2050	60	39.00	100	-10	90.76	84.39	156.89	21.60+	100	100	0.00	252.96
B	1	(untitled)	1	769-1	B	330	2050	11	2.00	80	12	54.14	47.04	126.35	7.05	20	0	0.00	12.23
	2	(untitled)	1	769-1	B	311 <	2150	11	3.32	100	-10	263.32	256.04	315.97	24.58+	20	0	0.00	62.86
	3	(untitled)	1	769-1	B	303	2100	11	1.37	81	11	46.38	38.90	104.74	5.43	20	0	0.00	9.29
	4	(untitled)	1	769-1	B	296	2050	11	0.00	72	25	44.54	32.25	97.18	4.85	20	0	0.00	7.54
Bc	1	(untitled)	1	769-1	A	885	2050	37	7.00	68	32	18.52	6.57	43.43	8.73	100	500	0.00	65.78
	2	(untitled)	1	769-1	A	983	2050	37	9.00	76	19	17.56	5.72	25.30	5.15	100	500	0.00	49.91
	3	(untitled)	1	769-1	A	733	2050	37	13.00	56	59	13.54	1.84	4.09	0.50	100	500	0.00	8.65
Bc f	1	(untitled)	1			1390	2263	60	18.00	61	46	5.60	1.26	0.00	0.49	100	100	0.00	6.93
	2	(untitled)	1			1319	2263	60	12.00	58	54	6.52	1.11	0.00	0.41	100	100	0.00	5.77
	3	(untitled)	1			983	2263	60	31.00	43	107	6.50	0.61	0.00	0.17	100	100	0.00	2.37
	4	(untitled)	1			733	2263	60	31.00	32	178	6.93	0.38	0.00	0.08	100	100	0.00	1.10
Bf	1	(untitled)	1			641 <	1800	60	37.09	93	-3	186.54	159.20	376.54	44.16+	100	100	0.00	432.66
	2	(untitled)	1			599	1800	60	0.00	33	170	27.91	0.50	0.00	0.08	100	100	0.00	1.18
C	1	(untitled)	2	769-2	G	81	2100	15	13.00	15	521	32.07	17.53	100.81	1.46	20	0	0.00	1.12
	2	(untitled)	2	769-2	G	564 <	2200	15	0.00	96	-6	154.41	139.68	278.34	27.38+	20	0	0.00	62.19
	3	(untitled)	2	769-2	G	240	2050	15	8.00	44	105	42.58	27.66	104.24	4.18	20	0	0.00	5.25
Cf	1	(untitled)	2			512 <	1965	60	44.36	100	-10	220.07	202.72	367.37	35.47+	100	100	0.00	433.12
	2	(untitled)	2			374	1965	60	45.91	35	161	26.06	8.55	75.48	4.96	100	100	0.00	16.15
D	1	(untitled)	3	770-1	B	423	2050	16	0.00	73	24	31.68	27.55	92.13	6.54	20	0	0.00	9.19
	2	(untitled)	3	770-1	B	246	1850	16	0.00	47	92	24.93	20.81	79.95	3.28	20	0	0.00	4.04
	3	(untitled)	3	770-1	B	364	2250	16	0.00	57	58	26.09	22.12	83.28	5.18	20	0	0.00	6.35
	4	(untitled)	3	770-1	B	401	2250	16	0.00	63	43	27.66	23.50	86.27	5.79	20	0	0.00	7.43
Dc	1	(untitled)	3	770-1	A	668	2100	34	14.00	54	65	20.34	14.23	71.50	7.92	100	500	0.00	67.39
	2	(untitled)	3	770-1	A	824	2100	34	6.00	67	34	14.25	8.38	56.40	7.76	100	500	0.00	56.34
	3	(untitled)	3	770-1	A	378	2100	34	10.00	31	192	10.37	4.73	36.90	2.28	100	500	0.00	15.79
	4	(untitled)	3	770-1	A	497	2100	34	6.00	41	122	13.09	7.68	73.38	6.02	100	500	0.00	37.93
Dc f	1	(untitled)	3			803	2050	60	28.00	39	130	5.47	0.57	0.00	0.13	100	100	0.00	1.79
	2	(untitled)	3			1069	2100	60	26.00	51	77	5.78	0.89	0.00	0.26	100	100	0.00	3.74

	3	(untitled)	3			668	2100	60	32.00	32	183	6.42	0.40	0.00	0.07	100	100	0.00	1.05
	4	(untitled)	3			824	2100	60	16.77	43	111	9.23	1.65	18.27	3.63	100	100	0.00	7.77
	5	(untitled)	3			378	2100	60	31.00	18	400	6.35	0.19	0.00	0.02	100	100	0.00	0.28
	6	(untitled)	3			497	2050	60	25.00	24	271	8.22	0.28	0.00	0.04	100	100	0.00	0.55
Df	1	(untitled)	3-2			669	1900	60	0.00	35	156	24.51	0.51	0.00	0.10	100	100	0.00	1.36
	2	(untitled)	3-2			765	2250	60	0.00	34	165	24.41	0.41	0.00	0.09	100	100	0.00	1.24
DxP	1	(untitled)	3-2	770-2	D	768	2050	42	4.00	52	72	6.19	2.76	11.66	1.50	100	100	0.00	11.24
	2	(untitled)	3-2	770-2	D	1069	2050	42	5.00	73	24	6.91	3.30	5.73	1.03	100	100	0.00	15.87
Ec	1	(untitled)	4	770-3	F	718	2150	36	4.00	54	66	9.43	5.67	27.77	4.96	100	500	0.00	48.06
	2	(untitled)	4	770-3	F	624	2263	36	7.00	45	101	9.27	5.64	48.57	5.65	100	500	0.00	62.49
	3	(untitled)	4	770-3	F	658	2263	36	10.00	47	91	4.66	1.15	0.00	0.21	100	500	0.00	2.98
	4	(untitled)	4	770-3	F	373	2250	36	19.00	27	235	6.01	0.60	4.16	0.26	100	500	0.00	1.85
Ecf	1	(untitled)	4			773	2100	60	22.09	37	144	3.96	0.51	1.23	4.75	100	100	0.00	1.87
	2	(untitled)	4			1142	2100	60	14.00	54	66	4.50	1.02	0.00	0.32	100	100	0.00	4.59
	3	(untitled)	4			624	2263	60	19.29	28	219	4.73	0.37	2.91	2.07	100	100	0.00	1.36
	4	(untitled)	4			658	2300	60	33.00	29	215	5.06	0.31	0.00	0.06	100	100	0.00	0.81
	5	(untitled)	4			604	2300	60	21.00	26	243	5.37	0.28	0.00	0.05	100	100	0.00	0.66
Ef	1	(untitled)	4			882	1900	60	0.00	46	94	16.13	0.82	0.00	0.20	100	100	0.00	2.85
	2	(untitled)	4			630	1900	60	34.87	79	14	39.79	24.48	67.29	14.59	100	100	0.00	65.61
Exp	1	(untitled)	4-2	770-4	L	773	2050	41	17.00	54	67	7.25	3.37	16.91	5.00	100	100	0.00	14.45
	2	(untitled)	4-2	770-4	L	424	2050	41	22.00	30	205	4.55	0.53	0.00	0.06	100	100	0.00	0.88
F	1	(untitled)	5	771-1	B	166	2100	7	3.00	59	52	50.09	43.70	11.47	3.18	20	0	0.00	5.71
	2	(untitled)	5	771-1	B	280 <	2100	7	0.00	100	-10	262.96	25.65	32.69	21.81+	20	0	0.00	56.67
	3	(untitled)	5	771-1	B	280 <	2100	7	0.00	100	-10	263.08	25.65	32.69	21.81+	20	0	0.00	56.67
Fc	1	(untitled)	5	771-1	A	763	2263	43	7.00	46	96	29.21	10.05	74.59	10.50	100	500	0.00	77.34
	2	(untitled)	5	771-1	A	826	2263	43	11.82	51	77	25.31	6.29	48.87	6.33	100	500	0.00	53.79
	3	(untitled)	5	771-1	A	834	2263	43	21.36	56	61	26.61	7.10	59.67	6.84	100	500	0.00	61.96
Ff	1	(untitled)	5			446 <	1900	60	45.92	100	-10	410.65	37.75	57.25	57.90+	100	100	0.00	695.83
	2	(untitled)	5			269	1900	60	51.16	96	-6	257.17	22.41	26.16	19.18	100	100	0.00	247.37
G	1	(untitled)	2	769-2	F	398 <	2050	15	4.36	100	-10	287.05	27.10	38.94	34.86+	100	500	85272.61	85829.84

	2	(untitled)	2	769-2	F	398	2050	15	3.91	96	-7	170.41	159.02	247.09	25.10	100	500	0.00	413.30
Gf	1	(untitled)	4			295 <	2050	60	51.37	100	-10	143.35	140.32	229.91	14.88+	100	100	0.00	184.93
	2	(untitled)	4			270	2050	60	46.00	13	584	3.14	0.13	0.24	2.33	100	100	0.00	0.16
xA	1	(untitled)	10			833	2263	60	18.00	37	145	17.69	0.46	0.00	0.11	100	100	0.00	1.52
	2	(untitled)	10			746	2263	60	23.00	33	173	17.64	0.39	0.00	0.08	100	100	0.00	1.15
xB	1	(untitled)				1824	Unrestricted	60	4.00	0	Unrestricted	6.64	0.00	0.00	0.00	100	100	0.00	0.00
xC	1	(untitled)				650 <	1900	60	39.47	100	-10	134.73	126.06	134.60	29.84+	100	100	0.00	351.30
	2	(untitled)				650 <	1900	60	39.47	100	-10	133.37	124.68	131.71	29.79+	100	100	0.00	346.78
xD	1	(untitled)				768	Unrestricted	60	13.00	0	Unrestricted	9.11	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				1069	Unrestricted	60	16.00	0	Unrestricted	9.16	0.00	0.00	0.00	100	100	0.00	0.00
xE	1	(untitled)				773	Unrestricted	60	9.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
	2	(untitled)				424	Unrestricted	60	28.00	0	Unrestricted	13.04	0.00	0.00	0.00	100	100	0.00	0.00
xF	1	(untitled)				832	Unrestricted	60	0.00	0	Unrestricted	12.19	0.00	0.00	0.00	100	100	0.00	0.00
Cc 1	1	(untitled)	2	769-2	E	489	2050	30	3.03	46	95	17.18	10.57	44.92	3.33	100	100	0.00	28.95
E1	1	(untitled)	4	770-3	G	421	2050	13	0.00	88	2	52.71	46.71	121.10	8.78	20	0	0.00	15.51
	2	(untitled)	4	770-3	G	461	2200	13	0.00	90	0	54.89	48.89	123.84	10.36	20	0	0.00	17.78
Gf 1	1	(untitled)	4			231	676	60	37.69	90	0	72.39	66.66	162.99	6.95	100	100	0.00	65.56
Cc 2	2	(untitled)	2	769-2	D	725	2150	31	3.51	64	40	16.71	6.80	49.09	6.03	100	500	0.00	48.50
	3	(untitled)	2	769-2	D	403	2050	31	20.00	37	144	17.70	7.95	102.13	8.40	100	500	0.00	47.16
	4	(untitled)	2	769-2	D	1065	2150	31	0.12	93	-3	27.77	21.58	46.26	8.59	100	500	0.00	187.30
	5	(untitled)	2	769-2	D	676	2050	31	6.00	62	45	11.07	4.12	23.13	2.90	100	500	0.00	38.60
	6	(untitled)	2	769-2	D	482	2050	31	4.00	44	104	14.72	7.58	65.72	6.75	100	500	0.00	60.88
E2	3	(untitled)	4	770-3	H	295 <	2150	13	5.77	100	-10	175.14	171.14	221.28	15.18+	20	0	0.00	39.86
	4	(untitled)	4	770-3	H	270	2050	13	0.00	56	59	39.95	35.88	84.78	3.81	20	0	0.00	7.65
TC5	2	(untitled)	TC771-6	TC777-1	A	684	2263	35	13.00	49	83	6.42	3.66	21.05	2.40	100	100	0.00	11.69
	3	(untitled)	TC771-6	TC777-1	A	746	2263	35	12.00	53	68	4.85	2.08	7.41	0.92	100	100	0.00	6.82
	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

T C9	1	(untitled)	TC 771-6	TC77 7-1	B	1199 <	1925	36	1.64	100	-10	79.58	68.58	164.06	32.76+	100	100	0.00	348.91
	2	(untitled)	TC 771-6	TC77 7-1	B	708 <	1966	36	17.10	99	-9	96.19	85.13	239.47	22.78+	100	100	0.00	259.31
	3	(untitled)	TC 771-6	TC77 7-1	B	587 <	1947	36	20.93	100	-10	148.63	137.51	346.70	27.57+	100	100	0.00	343.61
T C35	1	(untitled)	TC 771-6	TC77 7-1	A	148	1900	35	8.00	13	611	3.80	0.90	6.44	0.16	100	100	0.00	0.65
T C36	1	(untitled)	TC 771-6			431	1800	60	0.00	24	276	3.34	0.31	0.00	0.04	100	100	0.00	0.54
T C37	1	(untitled)	TC 771-6	TC77 7-2	J	78	1850	43	0.00	6	1465	5.54	2.35	26.80	0.35	100	100	0.00	1.45
T C38	1	(untitled)	TC 771-6			78	445	60	16.00	18	414	5.52	3.98	48.99	2.43	100	100	0.00	2.56
T C39	2	(untitled)	TC 771-6			684	2263	60	36.00	30	198	2.88	0.34	0.00	0.07	100	100	0.00	0.93
	3	(untitled)	TC 771-6			746	2263	60	35.00	33	173	2.79	0.39	0.00	0.08	100	100	0.00	1.15
T C40	2	(untitled)	TC 771-6			762	Unrestricted	60	11.00	0	Unrestricted	4.23	0.00	0.00	0.00	100	100	0.00	0.00
	3	(untitled)	TC 771-6			746	Unrestricted	60	26.00	0	Unrestricted	4.02	0.00	0.00	0.00	100	100	0.00	0.00
T C41	1	(untitled)	TC 771-6	TC77 7-1	D	353	1850	14	0.00	76	18	36.91	32.98	99.47	6.14	100	100	0.00	58.15
T C42	1	(untitled)	TC 771-6	TC77 7-1	E	0	0	0	0.00	0	-100	0.00	0.00	0.00	0.00	100	100	0.00	0.00
T C43	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	32.95	124	-28	378.25	371.63	334.76	124.51+	100	100	0.00	1652.60
49	1	(untitled)	TC 771-6			1343 <	1900	60	20.47	107	-16	149.00	145.85	241.21	72.03+	100	100	0.00	810.49
	2	(untitled)	TC 771-6			1342 <	1900	60	20.80	108	-17	158.19	155.04	248.92	76.09+	100	100	0.00	859.42
50	1	(untitled)	1			1486 <	1900	60	20.84	120	-25	317.05	311.27	317.45	145.81+	100	100	0.00	1873.85
51	1	(untitled)	4-2			1014 <	1900	60	37.42	142	-37	547.69	543.19	376.47	162.12+	100	100	0.00	2206.35

## Pedestrian Crossing Results

			SIGNALS			FLOWS		PERFORMANCE			PER PED		QUEUES	WEIGHTS	PENALTIES	P.I.
Pedestrian	Side	Name	Traffic node	Controller stream	Phase	Calculated Flow Entering	Calculated sat flow (Ped/hr)	Actual green (s per	Degree of saturation (%)	Practical reserve capacity	Journey Time (s)	Mean Delay per Ped	Mean max queue (Ped)	Delay weighting (%)	Cost of traffic penalties (£ per hr)	P.I.

						(Ped/h r)		cycl e)				d (s)				
1	1	(untitled)	3-2	770-2	E	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3-2	770-2	E	0	11000	6	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
2	1	(untitled)	3	770-1	C	0	11000	32	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	3	770-1	C	0	11000	32	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
3	1	(untitled)	4-2	770-4	M	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4-2	770-4	M	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
4	1	(untitled)	4	770-3	J	0	11000	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	J	0	11000	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
5	1	(untitled)	4	770-3	I	0	11000	35	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	4	770-3	I	0	11000	35	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	37	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	5	771-1	C	0	11000	37	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
8	1	(untitled)	1	769-1	C	0	11000	33	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	1	769-1	C	0	11000	33	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
9	1	(untitled)	2	769-2	J	0	11000	12	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	J	0	11000	12	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
10	1	(untitled)	2	769-2	K	0	11000	17	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	K	0	11000	17	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
11	1	(untitled)		769-2	H	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		769-2	H	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
12	1	(untitled)	2	769-2	I	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)	2	769-2	I	0	11000	28	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
13	1	(untitled)		TC777-1	I	0	11000	14	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	I	0	11000	14	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
14	1	(untitled)		TC777-1	F	0	11000	36	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-1	F	0	11000	36	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	12	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00

	2	(untitled)		TC777-1	H	0	11000	12	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
17	1	(untitled)		TC777-2	K	0	11000	7	0	Unrestricted	0.00	0.00	0.00	100	0.00	0.00
	2	(untitled)		TC777-2	K	0	11000	7	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	6663.56	1289.00	5.17	1112.42	13395.76	1511.85	85272.61	100180.22
Bus								
Tram								
Pedestrians	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	6663.56	1289.00	5.17	1112.42	13395.76	1511.85	85272.61	100180.22

- < = 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**