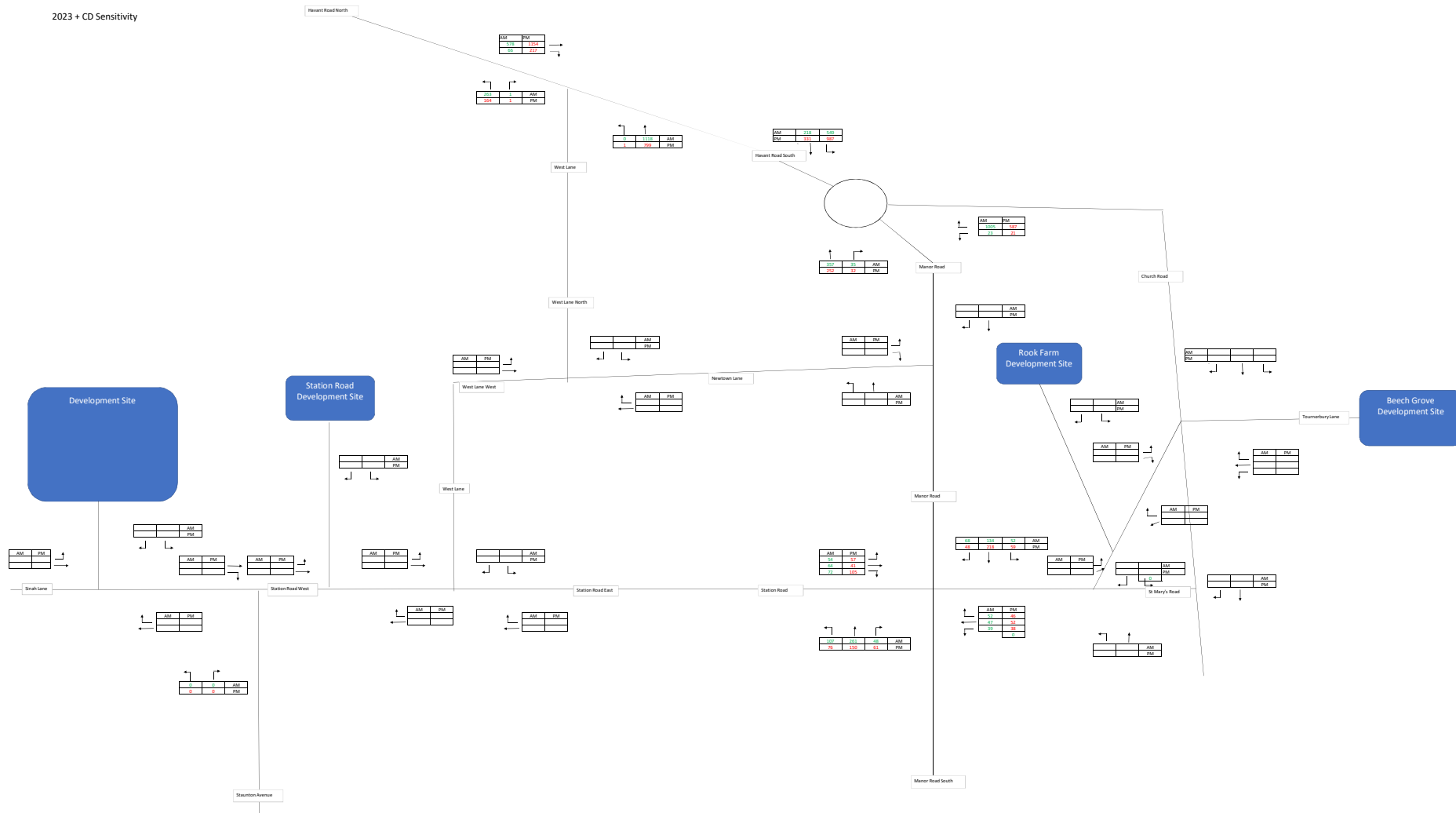
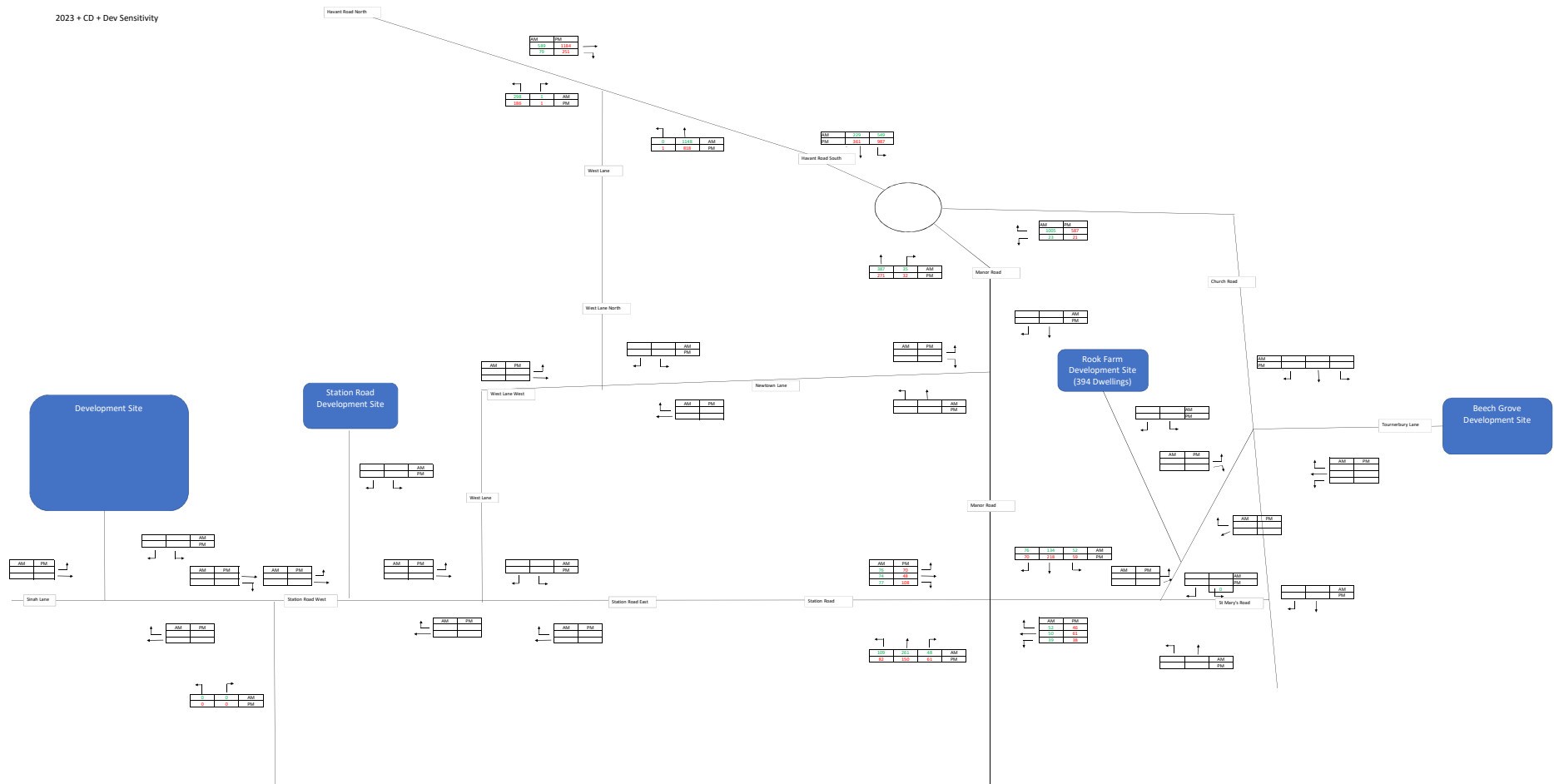
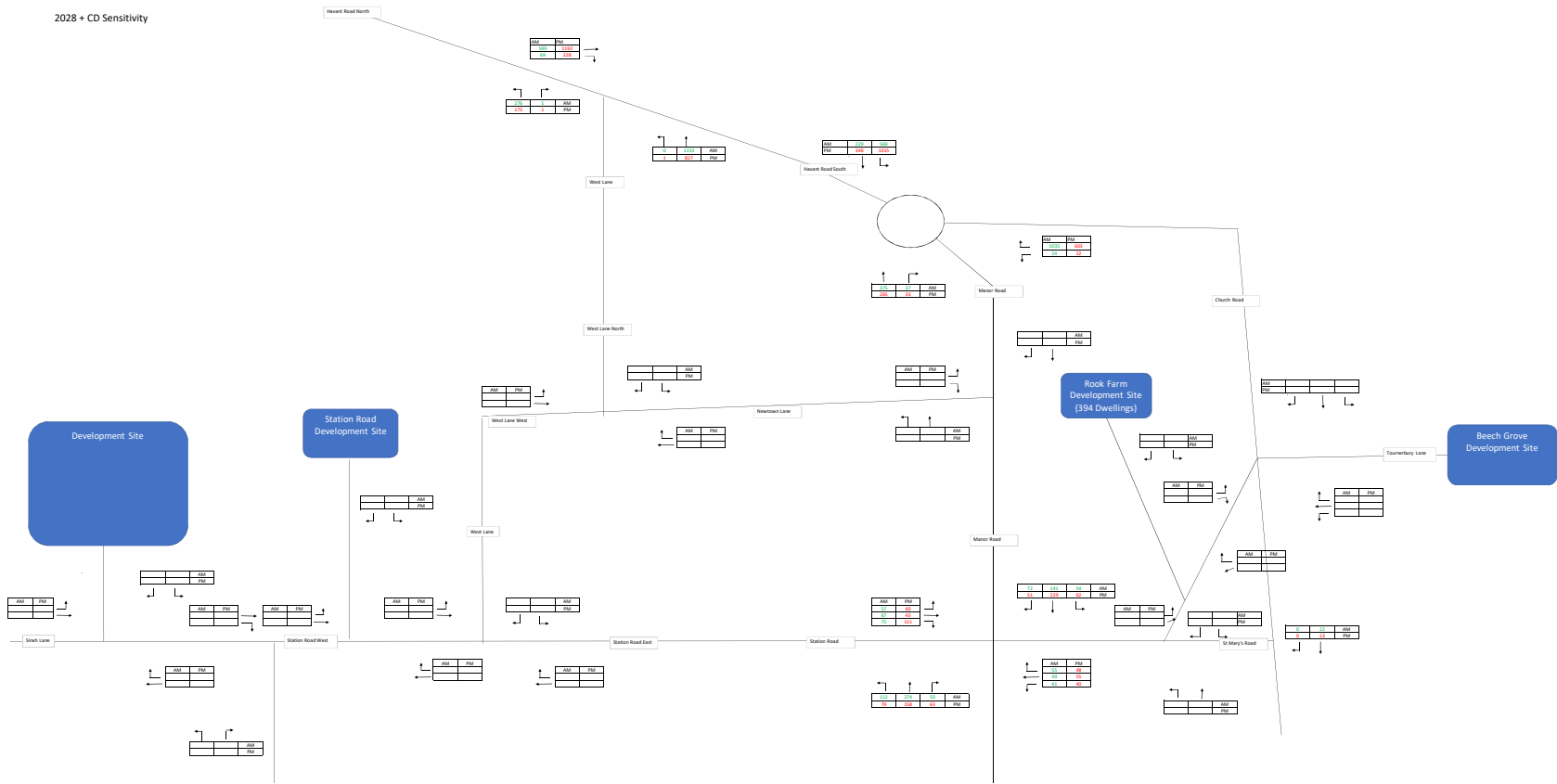
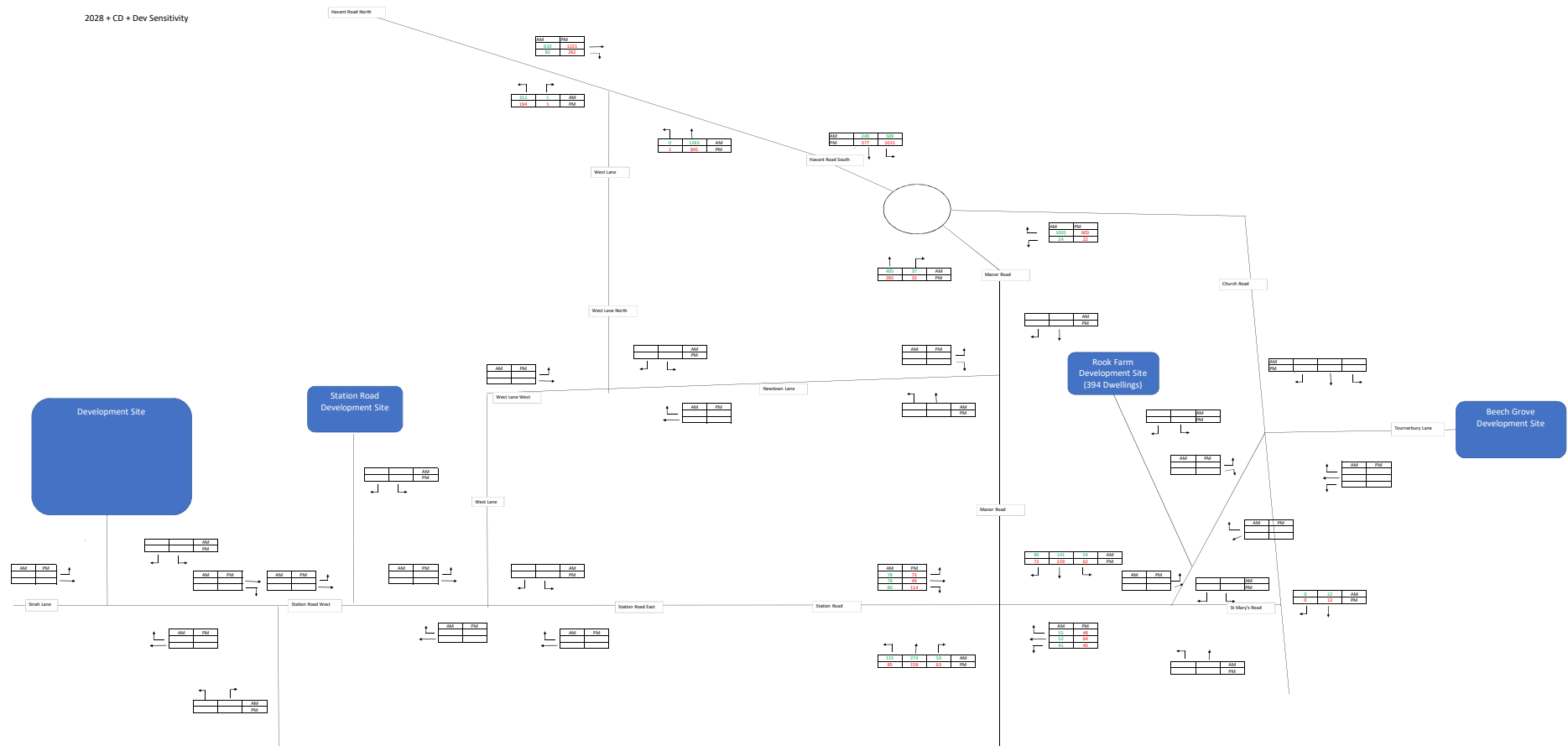


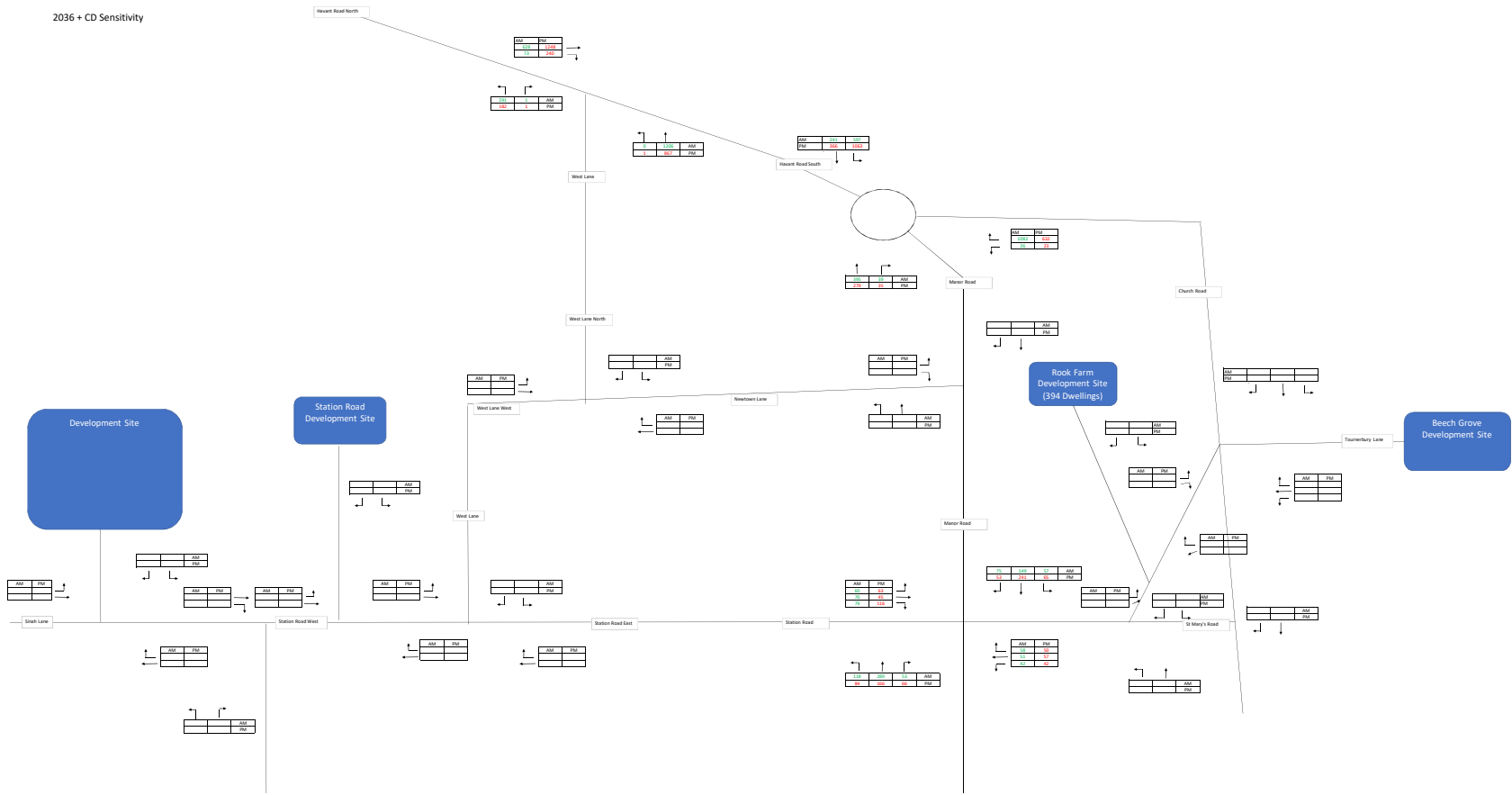
2023 + CD Sensitivity



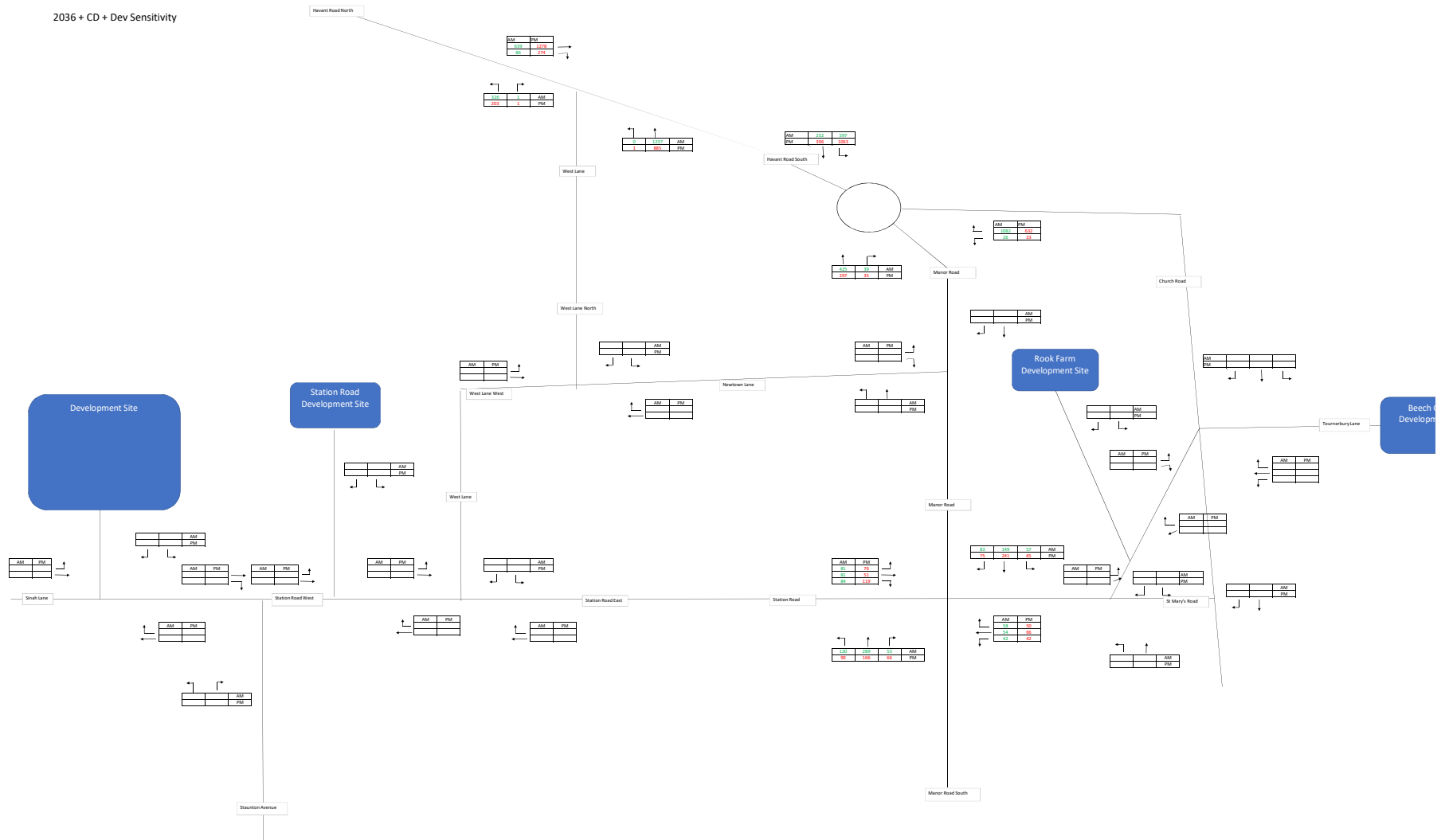








2036 + CD + Dev Sensitivity



Appendix R

Junctions 9			
PICADY 9 - Priority Intersection Module			
Version: 9.0.2.5947			
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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: Station Road Manor Road Sensitivity Flat.j9

Path: C:\Users\Cad PC\Desktop

Report generation date: 19/06/2018 08:47:15

- »Sensitivity Test - 2023 Baseline + CD, AM
- »Sensitivity Test - 2023 Baseline + CD, PM
- »Sensitivity Test - 2023 Baseline + CD + Dev, AM
- »Sensitivity Test - 2023 Baseline + CD + Dev, PM
- »Sensitivity Test - 2028 + CD, AM
- »Sensitivity Test - 2028 + CD, PM
- »Sensitivity Test - 2028 + CD + Development, AM
- »Sensitivity Test - 2028 + CD + Development, PM
- »Sensitivity Test - 2036 + CD, AM
- »Sensitivity Test - 2036 + CD, PM
- »Sensitivity Test - 2036 + CD + Development, AM
- »Sensitivity Test - 2036 + CD + Development, PM

Summary of junction performance

	AM				PM			
	Queue (Veh)	Delay (s)	RFC	LOS	Queue (Veh)	Delay (s)	RFC	LOS
Sensitivity Test - 2023 Baseline + CD								
Stream B-ACD	0.8	15.19	0.44	C	0.8	14.22	0.45	B
Stream A-BC	0.6	6.44	0.26	A	0.4	6.55	0.18	A
Stream A-D	0.1	6.77	0.29	A	0.1	7.08	0.24	A
Stream D-A	0.1	8.13	0.08	A	0.1	8.59	0.08	A
Stream D-BC	0.4	15.27	0.30	C	0.4	15.80	0.30	C
Stream C-ABD	0.2	8.57	0.15	A	0.1	7.54	0.10	A
Sensitivity Test - 2023 Baseline + CD + Dev								
Stream B-ACD	1.1	17.58	0.53	C	1.0	15.95	0.50	C
Stream A-BC	0.6	6.46	0.26	A	0.4	6.66	0.19	A
Stream A-D	0.1	6.80	0.29	A	0.1	7.20	0.25	A
Stream D-A	0.1	8.19	0.08	A	0.1	8.70	0.08	A
Stream D-BC	0.4	15.63	0.31	C	0.5	16.61	0.33	C
Stream C-ABD	0.2	8.71	0.17	A	0.2	7.79	0.14	A
Sensitivity Test - 2028 + CD								
Stream B-ACD	0.9	16.35	0.47	C	0.9	15.30	0.48	C
Stream A-BC	0.7	6.55	0.27	A	0.4	6.72	0.19	A
Stream A-D	0.1	6.91	0.30	A	0.1	7.30	0.25	A
Stream D-A	0.1	8.27	0.09	A	0.1	8.78	0.09	A
Stream D-BC	0.5	16.01	0.32	C	0.5	16.64	0.32	C
Stream C-ABD	0.2	8.71	0.16	A	0.1	7.60	0.10	A
Sensitivity Test - 2028 + CD + Development								

Stream B-ACD	1.3	19.27	0.56	C				
Stream A-BC	0.7	6.57	0.27	A				
Stream A-D	0.1	6.94	0.30	A				
Stream D-A	0.1	8.34	0.09	A				
Stream D-BC	0.5	16.42	0.33	C				
Stream C-ABD	0.2	8.86	0.18	A				
Sensitivity Test - 2028 + CD + Development								
Stream B-ACD					1.1	17.21	0.53	C
Stream A-BC					0.4	6.74	0.19	A
Stream A-D					0.1	7.33	0.26	A
Stream D-A					0.1	8.89	0.09	A
Stream D-BC					0.5	17.54	0.35	C
Stream C-ABD					0.2	7.84	0.15	A
Sensitivity Test - 2036 + CD								
Stream B-ACD	1.0	17.87	0.51	C	1.0	16.58	0.51	C
Stream A-BC	0.7	6.69	0.28	A	0.4	6.83	0.20	A
Stream A-D	0.1	7.10	0.32	A	0.1	7.47	0.27	A
Stream D-A	0.1	8.40	0.09	A	0.1	8.99	0.09	A
Stream D-BC	0.5	16.93	0.34	C	0.5	17.71	0.35	C
Stream C-ABD	0.2	8.84	0.17	A	0.1	7.66	0.11	A
Sensitivity Test - 2036 + CD + Development								
Stream B-ACD	1.5	21.44	0.59	C	1.3	18.73	0.56	C
Stream A-BC	0.7	6.72	0.29	A	0.4	6.85	0.20	A
Stream A-D	0.1	7.14	0.32	A	0.1	7.51	0.27	A
Stream D-A	0.1	8.48	0.09	A	0.1	9.09	0.10	A
Stream D-BC	0.5	17.38	0.35	C	0.6	18.54	0.37	C
Stream C-ABD	0.2	8.99	0.19	A	0.2	7.90	0.16	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Sinah Lane
Location	Hayling Island
Site number	
Date	15/05/2018
Version	
Status	(new file)
Identifier	
Client	Barratt Homes
Jobnumber	041.0031
Enumerator	Shannon
Description	195 Units

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D5	2023 Baseline + CD	AM	FLAT	07:45	09:15	90	15
D6	2023 Baseline + CD	PM	FLAT	16:45	18:15	90	15
D7	2023 Baseline + CD + Dev	AM	FLAT	07:45	09:15	90	15
D8	2023 Baseline + CD + Dev	PM	FLAT	16:45	18:15	90	15
D9	2028 + CD	AM	FLAT	07:45	09:15	90	15
D10	2028 + CD	PM	FLAT	16:45	18:15	90	15
D11	2028 + CD + Development	AM	FLAT	07:45	09:15	90	15
D12	2028 + CD + Development	PM	FLAT	16:45	18:15	90	15
D13	2036 + CD	AM	FLAT	07:45	09:15	90	15
D14	2036 + CD	PM	FLAT	16:45	18:15	90	15
D15	2036 + CD + Development	AM	FLAT	07:45	09:15	90	15
D16	2036 + CD + Development	PM	FLAT	16:45	18:15	90	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Sensitivity Test	100.000

Sensitivity Test - 2023 Baseline + CD, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Pedestrian Crossing	A - Manor Road NB - Pedestrian crossing	Pedestrian crossing uses default flow of 0. Is this correct?

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	8.05	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Manor Road NB		Major
B	Station Road		Minor
C	Manor Road SB		Major
D	St Marys Road		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - Manor Road NB	6.90		✓	2.60	95.0		-
C - Manor Road SB	6.30				100.0	✓	1.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Lane Width (Left) (m)	Lane Width (Right) (m)	Visibility to left (m)	Visibility to right (m)
B - Station Road	One lane	4.37			76	60
D - St Marys Road	Two lanes		2.75	2.75	46	51

Zebra Crossings

Arm	Space between crossing and junction entry (Right / All) (PCU)	Vehicles queueing on exit (Zebra) (PCU)	Central Refuge	Crossing data type	Crossing length (m)	Crossing time (s)
A - Manor Road NB	8.00	5.00		Distance	6.00	4.29

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
1	A-D	656	-	-	-	0.244	0.244	0.244	-	0.244	-	-
1	B-AD	605	0.109	0.275	-	-	-	0.173	0.393	0.173	0.109	0.275
1	B-C	752	0.114	0.288	-	-	-	-	-	-	0.114	0.288
1	C-B	632	0.242	0.242	-	-	-	-	-	-	0.242	0.242
1	D-A	640	-	-	-	0.238	0.094	0.238	-	0.094	-	-
1	D-BC	505	0.140	0.140	0.319	0.223	0.088	0.223	-	0.088	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D5	2023 Baseline + CD	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	416	100.000
B - Station Road		✓	190	100.000
C - Manor Road SB		✓	254	100.000
D - St Marys Road		✓	138	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	0.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
From		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
	A - Manor Road NB	0	107	261	48
	B - Station Road	72	0	54	64
	C - Manor Road SB	134	68	0	52
	D - St Marys Road	39	47	52	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.44	15.19	0.8	C
A-BC	0.26	6.44	0.6	A
A-D	0.29	6.77	0.1	A
D-A	0.08	8.13	0.1	A
D-BC	0.30	15.27	0.4	C
C-ABD	0.15	8.57	0.2	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	190		428	0.444	187	0.8	14.744	B
A-BC	368	0.00	1436	0.256	366	0.6	6.409	A
A-D	48	0.00	167	0.288	48	0.1	6.727	A
D-A	39		483	0.081	39	0.1	8.101	A
D-BC	99		336	0.295	97	0.4	15.012	C
C-ABD	73		494	0.147	72	0.2	8.515	A
C-D	51				51			
C-A	131				131			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	190		427	0.445	190	0.8	15.177	C
A-BC	368	0.00	1435	0.256	368	0.6	6.439	A
A-D	48	0.00	167	0.288	48	0.1	6.768	A
D-A	39		482	0.081	39	0.1	8.127	A
D-BC	99		335	0.296	99	0.4	15.264	C
C-ABD	73		493	0.148	73	0.2	8.564	A
C-D	51				51			
C-A	131				131			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	190		427	0.445	190	0.8	15.184	C
A-BC	368	0.00	1435	0.256	368	0.6	6.439	A
A-D	48	0.00	167	0.288	48	0.1	6.768	A
D-A	39		482	0.081	39	0.1	8.127	A
D-BC	99		335	0.296	99	0.4	15.268	C
C-ABD	73		493	0.148	73	0.2	8.563	A
C-D	51				51			
C-A	131				131			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	190		427	0.445	190	0.8	15.187	C
A-BC	368	0.00	1435	0.256	368	0.6	6.439	A
A-D	48	0.00	167	0.288	48	0.1	6.768	A
D-A	39		482	0.081	39	0.1	8.127	A
D-BC	99		335	0.296	99	0.4	15.268	C
C-ABD	73		493	0.148	73	0.2	8.565	A
C-D	51				51			
C-A	131				131			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	190		427	0.445	190	0.8	15.187	C
A-BC	368	0.00	1435	0.256	368	0.6	6.439	A
A-D	48	0.00	167	0.288	48	0.1	6.768	A
D-A	39		482	0.081	39	0.1	8.127	A
D-BC	99		335	0.296	99	0.4	15.268	C
C-ABD	73		493	0.148	73	0.2	8.565	A
C-D	51				51			
C-A	131				131			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	190		427	0.445	190	0.8	15.190	C
A-BC	368	0.00	1435	0.256	368	0.6	6.439	A
A-D	48	0.00	167	0.288	48	0.1	6.768	A
D-A	39		482	0.081	39	0.1	8.127	A
D-BC	99		335	0.296	99	0.4	15.268	C
C-ABD	73		493	0.148	73	0.2	8.565	A
C-D	51				51			
C-A	131				131			

Sensitivity Test - 2023 Baseline + CD, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Pedestrian Crossing	A - Manor Road NB - Pedestrian crossing	Pedestrian crossing uses default flow of 0. Is this correct?

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	7.42	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D6	2023 Baseline + CD	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	287	100.000
B - Station Road		✓	203	100.000
C - Manor Road SB		✓	325	100.000
D - St Marys Road		✓	136	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	0.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	0	76	150	61
	B - Station Road	105	0	57	41
	C - Manor Road SB	218	48	0	59
	D - St Marys Road	38	52	46	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.45	14.22	0.8	B
A-BC	0.18	6.55	0.4	A
A-D	0.24	7.08	0.1	A
D-A	0.08	8.59	0.1	A
D-BC	0.30	15.80	0.4	C
C-ABD	0.10	7.54	0.1	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	203		457	0.444	200	0.8	13.848	B
A-BC	226	0.00	1269	0.178	225	0.4	6.529	A
A-D	61	0.00	255	0.239	61	0.1	7.046	A
D-A	38		458	0.083	38	0.1	8.557	A
D-BC	98		327	0.300	96	0.4	15.519	C
C-ABD	51		529	0.097	51	0.1	7.517	A
C-D	58				58			
C-A	215				215			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	203		456	0.445	203	0.8	14.214	B
A-BC	226	0.00	1268	0.178	226	0.4	6.549	A
A-D	61	0.00	255	0.239	61	0.1	7.085	A
D-A	38		457	0.083	38	0.1	8.594	A
D-BC	98		326	0.301	98	0.4	15.786	C
C-ABD	51		529	0.097	51	0.1	7.541	A
C-D	58				58			
C-A	215				215			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	203		456	0.445	203	0.8	14.220	B
A-BC	226	0.00	1268	0.178	226	0.4	6.549	A
A-D	61	0.00	255	0.239	61	0.1	7.085	A
D-A	38		457	0.083	38	0.1	8.594	A
D-BC	98		326	0.301	98	0.4	15.794	C
C-ABD	51		529	0.097	51	0.1	7.541	A
C-D	58				58			
C-A	215				215			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	203		456	0.445	203	0.8	14.220	B
A-BC	226	0.00	1268	0.178	226	0.4	6.549	A
A-D	61	0.00	255	0.239	61	0.1	7.085	A
D-A	38		457	0.083	38	0.1	8.594	A
D-BC	98		326	0.301	98	0.4	15.794	C
C-ABD	51		529	0.097	51	0.1	7.541	A
C-D	58				58			
C-A	215				215			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	203		456	0.445	203	0.8	14.223	B
A-BC	226	0.00	1268	0.178	226	0.4	6.549	A
A-D	61	0.00	255	0.239	61	0.1	7.085	A
D-A	38		457	0.083	38	0.1	8.594	A
D-BC	98		326	0.301	98	0.4	15.795	C
C-ABD	51		529	0.097	51	0.1	7.541	A
C-D	58				58			
C-A	215				215			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	203		456	0.445	203	0.8	14.223	B
A-BC	226	0.00	1268	0.178	226	0.4	6.549	A
A-D	61	0.00	255	0.239	61	0.1	7.085	A
D-A	38		457	0.083	38	0.1	8.594	A
D-BC	98		326	0.301	98	0.4	15.795	C
C-ABD	51		529	0.097	51	0.1	7.541	A
C-D	58				58			
C-A	215				215			

Sensitivity Test - 2023 Baseline + CD + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Pedestrian Crossing	A - Manor Road NB - Pedestrian crossing	Pedestrian crossing uses default flow of 0. Is this correct?

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	8.91	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D7	2023 Baseline + CD + Dev	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	418	100.000
B - Station Road		✓	227	100.000
C - Manor Road SB		✓	262	100.000
D - St Marys Road		✓	141	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	0.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	0	109	261	48
	B - Station Road	77	0	76	74
	C - Manor Road SB	134	76	0	52
	D - St Marys Road	39	50	52	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.53	17.58	1.1	C
A-BC	0.26	6.46	0.6	A
A-D	0.29	6.80	0.1	A
D-A	0.08	8.19	0.1	A
D-BC	0.31	15.63	0.4	C
C-ABD	0.17	8.71	0.2	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	227		433	0.524	223	1.1	16.819	C
A-BC	370	0.00	1435	0.258	368	0.6	6.427	A
A-D	48	0.00	166	0.289	48	0.1	6.755	A
D-A	39		480	0.081	39	0.1	8.151	A
D-BC	102		333	0.306	100	0.4	15.340	C
C-ABD	82		497	0.165	81	0.2	8.650	A
C-D	50				50			
C-A	130				130			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	227		432	0.526	227	1.1	17.558	C
A-BC	370	0.00	1435	0.258	370	0.6	6.457	A
A-D	48	0.00	166	0.289	48	0.1	6.797	A
D-A	39		478	0.082	39	0.1	8.192	A
D-BC	102		332	0.307	102	0.4	15.618	C
C-ABD	82		496	0.165	82	0.2	8.707	A
C-D	50				50			
C-A	130				130			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	227		432	0.526	227	1.1	17.576	C
A-BC	370	0.00	1435	0.258	370	0.6	6.457	A
A-D	48	0.00	166	0.289	48	0.1	6.797	A
D-A	39		478	0.082	39	0.1	8.193	A
D-BC	102		332	0.307	102	0.4	15.621	C
C-ABD	82		496	0.165	82	0.2	8.705	A
C-D	50				50			
C-A	130				130			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	227		432	0.526	227	1.1	17.581	C
A-BC	370	0.00	1435	0.258	370	0.6	6.457	A
A-D	48	0.00	166	0.289	48	0.1	6.797	A
D-A	39		478	0.082	39	0.1	8.193	A
D-BC	102		332	0.307	102	0.4	15.624	C
C-ABD	82		496	0.165	82	0.2	8.707	A
C-D	50				50			
C-A	130				130			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	227		432	0.526	227	1.1	17.583	C
A-BC	370	0.00	1435	0.258	370	0.6	6.457	A
A-D	48	0.00	166	0.289	48	0.1	6.797	A
D-A	39		478	0.082	39	0.1	8.193	A
D-BC	102		332	0.307	102	0.4	15.625	C
C-ABD	82		496	0.165	82	0.2	8.706	A
C-D	50				50			
C-A	130				130			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	227		432	0.526	227	1.1	17.585	C
A-BC	370	0.00	1435	0.258	370	0.6	6.457	A
A-D	48	0.00	166	0.289	48	0.1	6.797	A
D-A	39		478	0.082	39	0.1	8.193	A
D-BC	102		332	0.307	102	0.4	15.625	C
C-ABD	82		496	0.165	82	0.2	8.707	A
C-D	50				50			
C-A	130				130			

Sensitivity Test - 2023 Baseline + CD + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	8.21	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D8	2023 Baseline + CD + Dev	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	293	100.000
B - Station Road		✓	226	100.000
C - Manor Road SB		✓	347	100.000
D - St Marys Road		✓	145	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	30.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	0	82	150	61
	B - Station Road	108	0	70	48
	C - Manor Road SB	218	70	0	59
	D - St Marys Road	38	61	46	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.50	15.95	1.0	C
A-BC	0.19	6.66	0.4	A
A-D	0.25	7.20	0.1	A
D-A	0.08	8.70	0.1	A
D-BC	0.33	16.61	0.5	C
C-ABD	0.14	7.79	0.2	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	226		453	0.499	222	1.0	15.385	C
A-BC	232	30.00	1255	0.185	230	0.4	6.642	A
A-D	61	30.00	249	0.245	61	0.1	7.155	A
D-A	38		453	0.084	38	0.1	8.659	A
D-BC	107		325	0.330	105	0.5	16.268	C
C-ABD	77		540	0.142	76	0.2	7.756	A
C-D	58				58			
C-A	213				213			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	226		452	0.500	226	1.0	15.937	C
A-BC	232	30.00	1254	0.185	232	0.4	6.664	A
A-D	61	30.00	249	0.245	61	0.1	7.195	A
D-A	38		452	0.084	38	0.1	8.700	A
D-BC	107		324	0.331	107	0.5	16.604	C
C-ABD	77		539	0.142	77	0.2	7.794	A
C-D	58				58			
C-A	213				213			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	226		452	0.500	226	1.0	15.947	C
A-BC	232	30.00	1254	0.185	232	0.4	6.664	A
A-D	61	30.00	249	0.245	61	0.1	7.195	A
D-A	38		452	0.084	38	0.1	8.701	A
D-BC	107		324	0.331	107	0.5	16.610	C
C-ABD	77		539	0.142	77	0.2	7.792	A
C-D	58				58			
C-A	213				213			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	226		452	0.500	226	1.0	15.951	C
A-BC	232	30.00	1254	0.185	232	0.4	6.664	A
A-D	61	30.00	249	0.245	61	0.1	7.195	A
D-A	38		452	0.084	38	0.1	8.701	A
D-BC	107		324	0.331	107	0.5	16.612	C
C-ABD	77		539	0.142	77	0.2	7.793	A
C-D	58				58			
C-A	213				213			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	226		452	0.500	226	1.0	15.952	C
A-BC	232	30.00	1254	0.185	232	0.4	6.664	A
A-D	61	30.00	249	0.245	61	0.1	7.195	A
D-A	38		452	0.084	38	0.1	8.701	A
D-BC	107		324	0.331	107	0.5	16.612	C
C-ABD	77		539	0.142	77	0.2	7.794	A
C-D	58				58			
C-A	213				213			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	226		452	0.500	226	1.0	15.954	C
A-BC	232	30.00	1254	0.185	232	0.4	6.664	A
A-D	61	30.00	249	0.245	61	0.1	7.195	A
D-A	38		452	0.084	38	0.1	8.701	A
D-BC	107		324	0.331	107	0.5	16.612	C
C-ABD	77		539	0.142	77	0.2	7.794	A
C-D	58				58			
C-A	213				213			

Sensitivity Test - 2028 + CD, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Pedestrian Crossing	A - Manor Road NB - Pedestrian crossing	Pedestrian crossing uses default flow of 0. Is this correct?

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	8.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D9	2028 + CD	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	436	100.000
B - Station Road		✓	199	100.000
C - Manor Road SB		✓	267	100.000
D - St Marys Road		✓	145	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	0.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From				
A - Manor Road NB	0	112	274	50
B - Station Road	75	0	57	67
C - Manor Road SB	141	72	0	54
D - St Marys Road	41	49	55	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.47	16.35	0.9	C
A-BC	0.27	6.55	0.7	A
A-D	0.30	6.91	0.1	A
D-A	0.09	8.27	0.1	A
D-BC	0.32	16.01	0.5	C
C-ABD	0.16	8.71	0.2	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	199		420	0.473	196	0.9	15.779	C
A-BC	386	0.00	1435	0.269	383	0.7	6.515	A
A-D	50	0.00	166	0.301	50	0.1	6.865	A
D-A	41		478	0.086	41	0.1	8.229	A
D-BC	104		330	0.315	102	0.4	15.702	C
C-ABD	78		492	0.158	77	0.2	8.649	A
C-D	52				52			
C-A	137				137			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	199		419	0.475	199	0.9	16.328	C
A-BC	386	0.00	1434	0.269	386	0.7	6.548	A
A-D	50	0.00	166	0.301	50	0.1	6.910	A
D-A	41		477	0.086	41	0.1	8.265	A
D-BC	104		329	0.316	104	0.5	16.003	C
C-ABD	78		491	0.158	78	0.2	8.705	A
C-D	52				52			
C-A	137				137			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	199		419	0.475	199	0.9	16.343	C
A-BC	386	0.00	1434	0.269	386	0.7	6.548	A
A-D	50	0.00	166	0.301	50	0.1	6.910	A
D-A	41		477	0.086	41	0.1	8.265	A
D-BC	104		329	0.316	104	0.5	16.006	C
C-ABD	78		491	0.158	78	0.2	8.704	A
C-D	52				52			
C-A	137				137			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	199		419	0.475	199	0.9	16.346	C
A-BC	386	0.00	1434	0.269	386	0.7	6.548	A
A-D	50	0.00	166	0.301	50	0.1	6.910	A
D-A	41		477	0.086	41	0.1	8.265	A
D-BC	104		329	0.316	104	0.5	16.008	C
C-ABD	78		491	0.158	78	0.2	8.706	A
C-D	52				52			
C-A	137				137			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	199		419	0.475	199	0.9	16.348	C
A-BC	386	0.00	1434	0.269	386	0.7	6.548	A
A-D	50	0.00	166	0.301	50	0.1	6.910	A
D-A	41		477	0.086	41	0.1	8.266	A
D-BC	104		329	0.316	104	0.5	16.008	C
C-ABD	78		491	0.158	78	0.2	8.704	A
C-D	52				52			
C-A	137				137			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	199		419	0.475	199	0.9	16.348	C
A-BC	386	0.00	1434	0.269	386	0.7	6.548	A
A-D	50	0.00	166	0.301	50	0.1	6.910	A
D-A	41		476	0.086	41	0.1	8.266	A
D-BC	104		329	0.316	104	0.5	16.010	C
C-ABD	78		491	0.158	78	0.2	8.704	A
C-D	52				52			
C-A	137				137			

Sensitivity Test - 2028 + CD, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	7.82	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D10	2028 + CD	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	300	100.000
B - Station Road		✓	214	100.000
C - Manor Road SB		✓	342	100.000
D - St Marys Road		✓	143	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	30.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From				
A - Manor Road NB	0	79	158	63
B - Station Road	111	0	60	43
C - Manor Road SB	229	51	0	62
D - St Marys Road	40	55	48	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.48	15.30	0.9	C
A-BC	0.19	6.72	0.4	A
A-D	0.25	7.30	0.1	A
D-A	0.09	8.78	0.1	A
D-BC	0.32	16.64	0.5	C
C-ABD	0.10	7.60	0.1	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	214		450	0.475	210	0.9	14.816	B
A-BC	237	30.00	1250	0.190	235	0.4	6.701	A
A-D	63	30.00	250	0.252	62	0.1	7.255	A
D-A	40		451	0.089	40	0.1	8.739	A
D-BC	103		320	0.322	101	0.5	16.300	C
C-ABD	55		529	0.104	54	0.1	7.574	A
C-D	61				61			
C-A	226				226			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	214		449	0.476	214	0.9	15.283	C
A-BC	237	30.00	1249	0.190	237	0.4	6.725	A
A-D	63	30.00	250	0.252	63	0.1	7.298	A
D-A	40		450	0.089	40	0.1	8.782	A
D-BC	103		319	0.322	103	0.5	16.626	C
C-ABD	55		529	0.104	55	0.1	7.602	A
C-D	61				61			
C-A	226				226			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	214		449	0.476	214	0.9	15.293	C
A-BC	237	30.00	1249	0.190	237	0.4	6.725	A
A-D	63	30.00	250	0.252	63	0.1	7.298	A
D-A	40		450	0.089	40	0.1	8.782	A
D-BC	103		319	0.322	103	0.5	16.631	C
C-ABD	55		529	0.104	55	0.1	7.602	A
C-D	61				61			
C-A	226				226			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	214		449	0.476	214	0.9	15.296	C
A-BC	237	30.00	1249	0.190	237	0.4	6.725	A
A-D	63	30.00	250	0.252	63	0.1	7.298	A
D-A	40		450	0.089	40	0.1	8.782	A
D-BC	103		319	0.322	103	0.5	16.633	C
C-ABD	55		529	0.104	55	0.1	7.602	A
C-D	61				61			
C-A	226				226			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	214		449	0.476	214	0.9	15.296	C
A-BC	237	30.00	1249	0.190	237	0.4	6.725	A
A-D	63	30.00	250	0.252	63	0.1	7.298	A
D-A	40		450	0.089	40	0.1	8.783	A
D-BC	103		319	0.322	103	0.5	16.633	C
C-ABD	55		529	0.104	55	0.1	7.602	A
C-D	61				61			
C-A	226				226			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	214		449	0.476	214	0.9	15.296	C
A-BC	237	30.00	1249	0.190	237	0.4	6.725	A
A-D	63	30.00	250	0.252	63	0.1	7.298	A
D-A	40		450	0.089	40	0.1	8.783	A
D-BC	103		319	0.322	103	0.5	16.635	C
C-ABD	55		529	0.104	55	0.1	7.602	A
C-D	61				61			
C-A	226				226			

Sensitivity Test - 2028 + CD + Development, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Pedestrian Crossing	A - Manor Road NB - Pedestrian crossing	Pedestrian crossing uses default flow of 0. Is this correct?

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	9.40	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D11	2028 + CD + Development	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	439	100.000
B - Station Road		✓	236	100.000
C - Manor Road SB		✓	275	100.000
D - St Marys Road		✓	148	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	0.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	0	115	274	50
	B - Station Road	80	0	78	78
	C - Manor Road SB	141	80	0	54
	D - St Marys Road	41	52	55	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.56	19.27	1.3	C
A-BC	0.27	6.57	0.7	A
A-D	0.30	6.94	0.1	A
D-A	0.09	8.34	0.1	A
D-BC	0.33	16.42	0.5	C
C-ABD	0.18	8.86	0.2	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		424	0.557	231	1.2	18.252	C
A-BC	389	0.00	1434	0.271	386	0.7	6.538	A
A-D	50	0.00	165	0.303	50	0.1	6.898	A
D-A	41		474	0.086	41	0.1	8.296	A
D-BC	107		327	0.327	105	0.5	16.076	C
C-ABD	87		495	0.176	86	0.2	8.795	A
C-D	52				52			
C-A	136				136			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		423	0.558	236	1.2	19.231	C
A-BC	389	0.00	1434	0.271	389	0.7	6.571	A
A-D	50	0.00	165	0.303	50	0.1	6.944	A
D-A	41		473	0.087	41	0.1	8.336	A
D-BC	107		326	0.328	107	0.5	16.411	C
C-ABD	87		494	0.176	87	0.2	8.856	A
C-D	52				52			
C-A	136				136			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		423	0.558	236	1.2	19.256	C
A-BC	389	0.00	1434	0.271	389	0.7	6.571	A
A-D	50	0.00	165	0.303	50	0.1	6.944	A
D-A	41		473	0.087	41	0.1	8.337	A
D-BC	107		326	0.328	107	0.5	16.417	C
C-ABD	87		494	0.176	87	0.2	8.855	A
C-D	52				52			
C-A	136				136			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		423	0.558	236	1.2	19.264	C
A-BC	389	0.00	1434	0.271	389	0.7	6.571	A
A-D	50	0.00	165	0.303	50	0.1	6.944	A
D-A	41		473	0.087	41	0.1	8.337	A
D-BC	107		326	0.328	107	0.5	16.419	C
C-ABD	87		494	0.176	87	0.2	8.855	A
C-D	52				52			
C-A	136				136			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		423	0.558	236	1.3	19.268	C
A-BC	389	0.00	1434	0.271	389	0.7	6.571	A
A-D	50	0.00	165	0.303	50	0.1	6.945	A
D-A	41		473	0.087	41	0.1	8.337	A
D-BC	107		326	0.328	107	0.5	16.420	C
C-ABD	87		494	0.176	87	0.2	8.857	A
C-D	52				52			
C-A	136				136			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		423	0.558	236	1.3	19.270	C
A-BC	389	0.00	1434	0.271	389	0.7	6.571	A
A-D	50	0.00	165	0.303	50	0.1	6.945	A
D-A	41		473	0.087	41	0.1	8.337	A
D-BC	107		326	0.328	107	0.5	16.420	C
C-ABD	87		494	0.176	87	0.2	8.857	A
C-D	52				52			
C-A	136				136			

Sensitivity Test - 2028 + CD + Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	8.61	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D12	2028 + CD + Development	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	306	100.000
B - Station Road		✓	236	100.000
C - Manor Road SB		✓	363	100.000
D - St Marys Road		✓	152	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	30.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	0	85	158	63
	B - Station Road	114	0	73	49
	C - Manor Road SB	229	72	0	62
	D - St Marys Road	40	64	48	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.53	17.21	1.1	C
A-BC	0.19	6.74	0.4	A
A-D	0.26	7.33	0.1	A
D-A	0.09	8.89	0.1	A
D-BC	0.35	17.54	0.5	C
C-ABD	0.15	7.84	0.2	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		446	0.529	232	1.1	16.476	C
A-BC	243	30.00	1254	0.194	241	0.4	6.717	A
A-D	63	30.00	247	0.256	62	0.1	7.283	A
D-A	40		446	0.090	40	0.1	8.844	A
D-BC	112		318	0.352	110	0.5	17.116	C
C-ABD	80		540	0.147	79	0.2	7.800	A
C-D	60				60			
C-A	223				223			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		445	0.530	236	1.1	17.182	C
A-BC	243	30.00	1253	0.194	243	0.4	6.742	A
A-D	63	30.00	247	0.255	63	0.1	7.327	A
D-A	40		445	0.090	40	0.1	8.892	A
D-BC	112		317	0.353	112	0.5	17.526	C
C-ABD	80		539	0.148	80	0.2	7.839	A
C-D	60				60			
C-A	223				223			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		445	0.530	236	1.1	17.198	C
A-BC	243	30.00	1253	0.194	243	0.4	6.742	A
A-D	63	30.00	247	0.255	63	0.1	7.328	A
D-A	40		445	0.090	40	0.1	8.893	A
D-BC	112		317	0.353	112	0.5	17.532	C
C-ABD	80		539	0.148	80	0.2	7.841	A
C-D	60				60			
C-A	223				223			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		445	0.530	236	1.1	17.203	C
A-BC	243	30.00	1253	0.194	243	0.4	6.742	A
A-D	63	30.00	247	0.255	63	0.1	7.328	A
D-A	40		445	0.090	40	0.1	8.893	A
D-BC	112		317	0.353	112	0.5	17.534	C
C-ABD	80		539	0.148	80	0.2	7.841	A
C-D	60				60			
C-A	223				223			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		445	0.530	236	1.1	17.205	C
A-BC	243	30.00	1253	0.194	243	0.4	6.742	A
A-D	63	30.00	247	0.255	63	0.1	7.328	A
D-A	40		445	0.090	40	0.1	8.893	A
D-BC	112		317	0.353	112	0.5	17.536	C
C-ABD	80		539	0.148	80	0.2	7.841	A
C-D	60				60			
C-A	223				223			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	236		445	0.530	236	1.1	17.207	C
A-BC	243	30.00	1253	0.194	243	0.4	6.742	A
A-D	63	30.00	247	0.255	63	0.1	7.328	A
D-A	40		445	0.090	40	0.1	8.893	A
D-BC	112		317	0.353	112	0.5	17.536	C
C-ABD	80		539	0.148	80	0.2	7.839	A
C-D	60				60			
C-A	223				223			

Sensitivity Test - 2036 + CD, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Pedestrian Crossing	A - Manor Road NB - Pedestrian crossing	Pedestrian crossing uses default flow of 0. Is this correct?

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	8.86	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D13	2036 + CD	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	460	100.000
B - Station Road		✓	209	100.000
C - Manor Road SB		✓	281	100.000
D - St Marys Road		✓	151	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	0.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From A - Manor Road NB	0	118	289	53
From B - Station Road	79	0	60	70
From C - Manor Road SB	149	75	0	57
From D - St Marys Road	42	51	58	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.51	17.87	1.0	C
A-BC	0.28	6.69	0.7	A
A-D	0.32	7.10	0.1	A
D-A	0.09	8.40	0.1	A
D-BC	0.34	16.93	0.5	C
C-ABD	0.17	8.84	0.2	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	209		412	0.508	205	1.0	17.106	C
A-BC	407	0.00	1431	0.285	404	0.7	6.656	A
A-D	53	0.00	167	0.317	53	0.1	7.051	A
D-A	42		472	0.089	42	0.1	8.362	A
D-BC	109		323	0.338	107	0.5	16.549	C
C-ABD	82		490	0.167	81	0.2	8.781	A
C-D	55				55			
C-A	144				144			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	209		410	0.509	209	1.0	17.841	C
A-BC	407	0.00	1430	0.285	407	0.7	6.695	A
A-D	53	0.00	167	0.317	53	0.1	7.103	A
D-A	42		470	0.089	42	0.1	8.404	A
D-BC	109		322	0.339	109	0.5	16.921	C
C-ABD	82		489	0.167	82	0.2	8.841	A
C-D	55				55			
C-A	144				144			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	209		410	0.509	209	1.0	17.858	C
A-BC	407	0.00	1430	0.285	407	0.7	6.695	A
A-D	53	0.00	167	0.317	53	0.1	7.103	A
D-A	42		470	0.089	42	0.1	8.405	A
D-BC	109		322	0.339	109	0.5	16.926	C
C-ABD	82		489	0.167	82	0.2	8.842	A
C-D	55				55			
C-A	144				144			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	209		410	0.509	209	1.0	17.863	C
A-BC	407	0.00	1430	0.285	407	0.7	6.695	A
A-D	53	0.00	167	0.317	53	0.1	7.103	A
D-A	42		470	0.089	42	0.1	8.405	A
D-BC	109		322	0.339	109	0.5	16.929	C
C-ABD	82		489	0.167	82	0.2	8.842	A
C-D	55				55			
C-A	144				144			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	209		410	0.509	209	1.0	17.865	C
A-BC	407	0.00	1430	0.285	407	0.7	6.695	A
A-D	53	0.00	167	0.317	53	0.1	7.103	A
D-A	42		470	0.089	42	0.1	8.405	A
D-BC	109		322	0.339	109	0.5	16.928	C
C-ABD	82		489	0.167	82	0.2	8.842	A
C-D	55				55			
C-A	144				144			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	209		410	0.509	209	1.0	17.867	C
A-BC	407	0.00	1430	0.285	407	0.7	6.695	A
A-D	53	0.00	167	0.317	53	0.1	7.103	A
D-A	42		470	0.089	42	0.1	8.405	A
D-BC	109		322	0.339	109	0.5	16.928	C
C-ABD	82		489	0.167	82	0.2	8.842	A
C-D	55				55			
C-A	144				144			

Sensitivity Test - 2036 + CD, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	8.25	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D14	2036 + CD	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	316	100.000
B - Station Road		✓	224	100.000
C - Manor Road SB		✓	359	100.000
D - St Marys Road		✓	151	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	30.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To			
	A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From				
A - Manor Road NB	0	84	166	66
B - Station Road	116	0	63	45
C - Manor Road SB	241	53	0	65
D - St Marys Road	42	51	58	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.51	16.58	1.0	C
A-BC	0.20	6.83	0.4	A
A-D	0.27	7.47	0.1	A
D-A	0.09	8.99	0.1	A
D-BC	0.35	17.71	0.5	C
C-ABD	0.11	7.66	0.1	A
C-D				
C-A				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	224		442	0.507	220	1.0	15.944	C
A-BC	250	30.00	1247	0.200	248	0.4	6.803	A
A-D	66	30.00	249	0.265	65	0.1	7.427	A
D-A	42		444	0.095	42	0.1	8.941	A
D-BC	109		313	0.348	107	0.5	17.283	C
C-ABD	57		528	0.109	57	0.1	7.628	A
C-D	64				64			
C-A	238				238			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	224		441	0.508	224	1.0	16.555	C
A-BC	250	30.00	1247	0.201	250	0.4	6.829	A
A-D	66	30.00	249	0.265	66	0.1	7.475	A
D-A	42		442	0.095	42	0.1	8.991	A
D-BC	109		312	0.349	109	0.5	17.696	C
C-ABD	57		528	0.109	57	0.1	7.658	A
C-D	64				64			
C-A	238				238			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	224		441	0.508	224	1.0	16.567	C
A-BC	250	30.00	1246	0.201	250	0.4	6.829	A
A-D	66	30.00	249	0.265	66	0.1	7.475	A
D-A	42		442	0.095	42	0.1	8.992	A
D-BC	109		312	0.349	109	0.5	17.702	C
C-ABD	57		528	0.109	57	0.1	7.661	A
C-D	64				64			
C-A	238				238			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	224		441	0.508	224	1.0	16.572	C
A-BC	250	30.00	1246	0.201	250	0.4	6.829	A
A-D	66	30.00	249	0.265	66	0.1	7.475	A
D-A	42		442	0.095	42	0.1	8.992	A
D-BC	109		312	0.349	109	0.5	17.704	C
C-ABD	57		528	0.109	57	0.1	7.658	A
C-D	64				64			
C-A	238				238			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	224		441	0.508	224	1.0	16.574	C
A-BC	250	30.00	1246	0.201	250	0.4	6.829	A
A-D	66	30.00	249	0.265	66	0.1	7.475	A
D-A	42		442	0.095	42	0.1	8.992	A
D-BC	109		312	0.349	109	0.5	17.706	C
C-ABD	57		528	0.109	57	0.1	7.661	A
C-D	64				64			
C-A	238				238			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	224		441	0.508	224	1.0	16.576	C
A-BC	250	30.00	1246	0.201	250	0.4	6.829	A
A-D	66	30.00	249	0.265	66	0.1	7.475	A
D-A	42		442	0.095	42	0.1	8.992	A
D-BC	109		312	0.349	109	0.5	17.706	C
C-ABD	57		528	0.109	57	0.1	7.661	A
C-D	64				64			
C-A	238				238			

Sensitivity Test - 2036 + CD + Development, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Pedestrian Crossing	A - Manor Road NB - Pedestrian crossing	Pedestrian crossing uses default flow of 0. Is this correct?

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	10.01	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D15	2036 + CD + Development	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	462	100.000
B - Station Road		✓	246	100.000
C - Manor Road SB		✓	289	100.000
D - St Marys Road		✓	154	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	0.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	0	120	289	53
	B - Station Road	84	0	81	81
	C - Manor Road SB	149	83	0	57
	D - St Marys Road	42	54	58	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	10	10	10	10
	B - Station Road	10	10	10	10
	C - Manor Road SB	10	10	10	10
	D - St Marys Road	10	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-ACD	0.59	21.44	1.5	C
A-BC	0.29	6.72	0.7	A
A-D	0.32	7.14	0.1	A
D-A	0.09	8.48	0.1	A
D-BC	0.35	17.38	0.5	C
C-ABD	0.19	8.99	0.2	A
C-D				
C-A				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	246		415	0.592	240	1.4	20.028	C
A-BC	409	0.00	1430	0.286	406	0.7	6.677	A
A-D	53	0.00	166	0.319	53	0.1	7.083	A
D-A	42		468	0.090	42	0.1	8.432	A
D-BC	112		320	0.350	110	0.5	16.950	C
C-ABD	91		493	0.185	90	0.2	8.921	A
C-D	55				55			
C-A	143				143			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	246		414	0.594	246	1.4	21.365	C
A-BC	409	0.00	1429	0.286	409	0.7	6.716	A
A-D	53	0.00	166	0.319	53	0.1	7.137	A
D-A	42		467	0.090	42	0.1	8.478	A
D-BC	112		319	0.351	112	0.5	17.368	C
C-ABD	91		492	0.186	91	0.2	8.990	A
C-D	55				55			
C-A	143				143			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	246		414	0.594	246	1.4	21.409	C
A-BC	409	0.00	1429	0.286	409	0.7	6.716	A
A-D	53	0.00	166	0.319	53	0.1	7.137	A
D-A	42		467	0.090	42	0.1	8.479	A
D-BC	112		319	0.351	112	0.5	17.375	C
C-ABD	91		492	0.186	91	0.2	8.991	A
C-D	55				55			
C-A	143				143			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	246		414	0.594	246	1.4	21.424	C
A-BC	409	0.00	1429	0.286	409	0.7	6.716	A
A-D	53	0.00	166	0.319	53	0.1	7.137	A
D-A	42		467	0.090	42	0.1	8.479	A
D-BC	112		319	0.351	112	0.5	17.376	C
C-ABD	91		492	0.186	91	0.2	8.989	A
C-D	55				55			
C-A	143				143			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	246		414	0.594	246	1.4	21.431	C
A-BC	409	0.00	1429	0.286	409	0.7	6.717	A
A-D	53	0.00	166	0.319	53	0.1	7.137	A
D-A	42		467	0.090	42	0.1	8.479	A
D-BC	112		319	0.351	112	0.5	17.379	C
C-ABD	91		492	0.186	91	0.2	8.991	A
C-D	55				55			
C-A	143				143			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Pedestrian demand (Ped/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-ACD	246		414	0.594	246	1.5	21.435	C
A-BC	409	0.00	1429	0.286	409	0.7	6.717	A
A-D	53	0.00	166	0.319	53	0.1	7.137	A
D-A	42		467	0.090	42	0.1	8.480	A
D-BC	112		319	0.351	112	0.5	17.379	C
C-ABD	91		492	0.186	91	0.2	8.989	A
C-D	55				55			
C-A	143				143			

Sensitivity Test - 2036 + CD + Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Station Road/Manor Road/ St Marys Road	Right-Left Stagger	Two-way	9.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D16	2036 + CD + Development	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Manor Road NB		✓	322	100.000
B - Station Road		✓	246	100.000
C - Manor Road SB		✓	381	100.000
D - St Marys Road		✓	158	100.000

Demand overview (Pedestrians)

Arm	Average pedestrian flow (Ped/hr)
A - Manor Road NB	30.00
B - Station Road	
C - Manor Road SB	
D - St Marys Road	

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - Manor Road NB	B - Station Road	C - Manor Road SB	D - St Marys Road
From	A - Manor Road NB	0	90	166	66
	B - Station Road	119	0	76	51
	C - Manor Road SB	241	75	0	65
	D - St Marys Road	42	66	50	0

Vehicle Mix

Appendix S

Junctions 9	
PICADY 9 - Priority Intersection Module	
Version: 9.0.2.5947 © Copyright TRL Limited, 2017	
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Filename: West Lane Havant Road Sensitivity Flat.j9

Path: C:\Users\Cad PC\Desktop

Report generation date: 19/06/2018 09:14:24

-
- »Sensitivity Test - 2023 Baseline + CD, AM
 - »Sensitivity Test - 2023 Baseline + CD, PM
 - »Sensitivity Test - 2023 Baseline + CD + Dev, AM
 - »Sensitivity Test - 2023 Baseline + CD + Dev, PM
 - »Sensitivity Test - 2028 Future Year + CD, AM
 - »Sensitivity Test - 2028 Future Year + CD, PM
 - »Sensitivity Test - 2028 + CD + Development, AM
 - »Sensitivity Test - 2028 + CD + Development, PM
 - »Sensitivity Test - 2036 Future Year + CD, AM
 - »Sensitivity Test - 2036 Future Year + CD, PM
 - »Sensitivity Test - 2036 + CD + Development, AM
 - »Sensitivity Test - 2036 + CD + Development, PM

Summary of junction performance

	AM				PM			
	Queue (Veh)	Delay (s)	RFC	LOS	Queue (Veh)	Delay (s)	RFC	LOS
Sensitivity Test - 2023 Baseline + CD								
Stream B-AC	7.4	106.09	0.90	F	0.9	19.26	0.47	C
Stream C-AB	0.4	10.49	0.22	B	4.2	8.58	0.59	A
Sensitivity Test - 2023 Baseline + CD + Dev								
Stream B-AC	28.0	350.91	1.03	F	1.0	20.39	0.51	C
Stream C-AB	0.6	10.60	0.27	B	7.4	10.84	0.69	B
Sensitivity Test - 2028 Future Year + CD								
Stream B-AC	14.3	195.02	0.97	F	1.0	21.74	0.51	C
Stream C-AB	0.5	10.54	0.24	B	5.4	9.18	0.63	A
Sensitivity Test - 2028 + CD + Development								
Stream B-AC	52.1	638.14	1.10	F				
Stream C-AB	0.7	10.66	0.29	B				
Sensitivity Test - 2028 + CD + Development								
Stream B-AC					1.2	22.15	0.54	C
Stream C-AB					9.8	12.56	0.74	B
Sensitivity Test - 2036 Future Year + CD								
Stream B-AC	37.4	481.03	1.06	F	1.6	32.63	0.62	D
Stream C-AB	0.6	10.62	0.26	B	7.4	10.26	0.68	B
Sensitivity Test - 2036 + CD + Development								
Stream B-AC	89.1	1113.90	1.21	F	1.4	24.87	0.58	C
Stream C-AB	0.9	10.78	0.32	B	14.3	16.52	0.79	C

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Sinah Lane
Location	Hayling Island
Site number	
Date	15/05/2018
Version	
Status	(new file)
Identifier	
Client	Barratt Homes
Jobnumber	041.0031
Enumerator	Shannon
Description	195 Units

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D5	2023 Baseline + CD	AM	FLAT	07:45	09:15	90	15
D6	2023 Baseline + CD	PM	FLAT	16:45	18:15	90	15
D7	2023 Baseline + CD + Dev	AM	FLAT	07:45	09:15	90	15
D8	2023 Baseline + CD + Dev	PM	FLAT	16:45	18:15	90	15
D9	2028 Future Year + CD	AM	FLAT	07:45	09:15	90	15
D10	2028 Future Year + CD	PM	FLAT	16:45	18:15	90	15
D11	2028 + CD + Development	AM	FLAT	07:45	09:15	90	15
D12	2028 + CD + Development	PM	FLAT	16:45	18:15	90	15
D13	2036 Future Year + CD	AM	FLAT	07:45	09:15	90	15
D14	2036 Future Year + CD	PM	FLAT	16:45	18:15	90	15
D15	2036 + CD + Development	AM	FLAT	07:45	09:15	90	15
D16	2036 + CD + Development	PM	FLAT	16:45	18:15	90	15

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Sensitivity Test	100.000

Sensitivity Test - 2023 Baseline + CD, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	14.34	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Havant Road WB		Major
B	West Lane		Minor
C	Havant Road EB		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Havant Road EB	7.00			40.0	✓	1.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - West Lane	One lane	2.50	85	10

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	484	0.084	0.213	0.134	0.305
1	B-C	599	0.088	0.222	-	-
1	C-B	597	0.221	0.221	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D5	2023 Baseline + CD	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	1118	100.000
B - West Lane		✓	264	100.000
C - Havant Road EB		✓	644	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	0	1118
	B - West Lane	1	0	263
	C - Havant Road EB	578	66	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.90	106.09	7.4	F
C-AB	0.22	10.49	0.4	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	264	294	0.897	244	4.9	59.177	F
C-AB	99	443	0.223	97	0.4	10.386	B
C-A	545			545			
A-B	0			0			
A-C	1118			1118			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	264	294	0.898	260	6.0	88.460	F
C-AB	99	443	0.223	99	0.4	10.483	B
C-A	545			545			
A-B	0			0			
A-C	1118			1118			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	264	294	0.898	262	6.6	96.465	F
C-AB	99	443	0.223	99	0.4	10.487	B
C-A	545			545			
A-B	0			0			
A-C	1118			1118			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	264	294	0.898	263	6.9	100.987	F
C-AB	99	443	0.223	99	0.4	10.488	B
C-A	545			545			
A-B	0			0			
A-C	1118			1118			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	264	294	0.898	263	7.2	103.963	F
C-AB	99	443	0.223	99	0.4	10.488	B
C-A	545			545			
A-B	0			0			
A-C	1118			1118			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	264	294	0.898	263	7.4	106.089	F
C-AB	99	443	0.223	99	0.4	10.488	B
C-A	545			545			
A-B	0			0			
A-C	1118			1118			

Sensitivity Test - 2023 Baseline + CD, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	3.72	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D6	2023 Baseline + CD	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	800	100.000
B - West Lane		✓	165	100.000
C - Havant Road EB		✓	1371	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	1	799
	B - West Lane	1	0	164
	C - Havant Road EB	1154	217	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.47	19.26	0.9	C
C-AB	0.59	8.58	4.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	165	353	0.467	162	0.8	18.510	C
C-AB	643	1084	0.593	627	3.9	7.965	A
C-A	728			728			
A-B	1			1			
A-C	799			799			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	165	352	0.469	165	0.9	19.227	C
C-AB	643	1084	0.593	642	4.1	8.531	A
C-A	728			728			
A-B	1			1			
A-C	799			799			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	165	352	0.469	165	0.9	19.247	C
C-AB	643	1084	0.593	643	4.2	8.562	A
C-A	728			728			
A-B	1			1			
A-C	799			799			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	165	352	0.469	165	0.9	19.255	C
C-AB	643	1084	0.593	643	4.2	8.572	A
C-A	728			728			
A-B	1			1			
A-C	799			799			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	165	352	0.469	165	0.9	19.257	C
C-AB	643	1084	0.593	643	4.2	8.577	A
C-A	728			728			
A-B	1			1			
A-C	799			799			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	165	352	0.469	165	0.9	19.260	C
C-AB	643	1084	0.593	643	4.2	8.580	A
C-A	728			728			
A-B	1			1			
A-C	799			799			

Sensitivity Test - 2023 Baseline + CD + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	50.09	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D7	2023 Baseline + CD + Dev	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	1149	100.000
B - West Lane		✓	298	100.000
C - Havant Road EB		✓	668	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	0	1149
	B - West Lane	0	0	298
	C - Havant Road EB	589	79	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	1.03	350.91	28.0	F
C-AB	0.27	10.60	0.6	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	298	289	1.030	261	9.2	88.905	F
C-AB	129	470	0.274	126	0.6	10.458	B
C-A	539			539			
A-B	0			0			
A-C	1149			1149			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	298	289	1.030	279	14.0	173.168	F
C-AB	129	470	0.274	129	0.6	10.597	B
C-A	539			539			
A-B	0			0			
A-C	1149			1149			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	298	289	1.030	282	18.0	224.870	F
C-AB	129	470	0.274	129	0.6	10.601	B
C-A	539			539			
A-B	0			0			
A-C	1149			1149			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	298	289	1.030	284	21.5	270.037	F
C-AB	129	470	0.274	129	0.6	10.600	B
C-A	539			539			
A-B	0			0			
A-C	1149			1149			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	298	289	1.030	285	24.8	311.643	F
C-AB	129	470	0.274	129	0.6	10.603	B
C-A	539			539			
A-B	0			0			
A-C	1149			1149			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	298	289	1.030	285	28.0	350.909	F
C-AB	129	470	0.274	129	0.6	10.602	B
C-A	539			539			
A-B	0			0			
A-C	1149			1149			

Sensitivity Test - 2023 Baseline + CD + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	5.29	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D8	2023 Baseline + CD + Dev	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	820	100.000
B - West Lane		✓	186	100.000
C - Havant Road EB		✓	1435	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	1	819
	B - West Lane	0	0	186
	C - Havant Road EB	1184	251	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.51	20.39	1.0	C
C-AB	0.69	10.84	7.4	B
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	186	362	0.513	182	1.0	19.544	C
C-AB	841	1211	0.695	815	6.6	9.300	A
C-A	594			594			
A-B	1			1			
A-C	819			819			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	186	362	0.513	186	1.0	20.363	C
C-AB	841	1211	0.695	840	7.1	10.663	B
C-A	594			594			
A-B	1			1			
A-C	819			819			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	186	362	0.513	186	1.0	20.379	C
C-AB	841	1211	0.695	841	7.3	10.767	B
C-A	594			594			
A-B	1			1			
A-C	819			819			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	186	362	0.513	186	1.0	20.388	C
C-AB	841	1211	0.695	841	7.3	10.809	B
C-A	594			594			
A-B	1			1			
A-C	819			819			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	186	362	0.513	186	1.0	20.390	C
C-AB	841	1211	0.695	841	7.4	10.828	B
C-A	594			594			
A-B	1			1			
A-C	819			819			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	186	362	0.513	186	1.0	20.392	C
C-AB	841	1211	0.695	841	7.4	10.841	B
C-A	594			594			
A-B	1			1			
A-C	819			819			

Sensitivity Test - 2028 Future Year + CD, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	26.29	D

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D9	2028 Future Year + CD	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	1153	100.000
B - West Lane		✓	277	100.000
C - Havant Road EB		✓	668	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	0	1153
	B - West Lane	1	0	276
	C - Havant Road EB	599	69	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.97	195.02	14.3	F
C-AB	0.24	10.54	0.5	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	277	286	0.968	250	6.8	74.236	F
C-AB	108	451	0.240	106	0.5	10.420	B
C-A	560			560			
A-B	0			0			
A-C	1153			1153			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	277	286	0.968	267	9.3	128.072	F
C-AB	108	451	0.240	108	0.5	10.532	B
C-A	560			560			
A-B	0			0			
A-C	1153			1153			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	277	286	0.968	270	11.0	152.033	F
C-AB	108	451	0.240	108	0.5	10.533	B
C-A	560			560			
A-B	0			0			
A-C	1153			1153			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	277	286	0.968	272	12.3	169.497	F
C-AB	108	451	0.240	108	0.5	10.534	B
C-A	560			560			
A-B	0			0			
A-C	1153			1153			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	277	286	0.968	273	13.4	183.416	F
C-AB	108	451	0.240	108	0.5	10.535	B
C-A	560			560			
A-B	0			0			
A-C	1153			1153			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	277	286	0.968	273	14.3	195.017	F
C-AB	108	451	0.240	108	0.5	10.537	B
C-A	560			560			
A-B	0			0			
A-C	1153			1153			

Sensitivity Test - 2028 Future Year + CD, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	4.32	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D10	2028 Future Year + CD	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	828	100.000
B - West Lane		✓	174	100.000
C - Havant Road EB		✓	1420	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	1	827
	B - West Lane	1	0	173
	C - Havant Road EB	1192	228	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.51	21.74	1.0	C
C-AB	0.63	9.18	5.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	174	342	0.509	170	1.0	20.499	C
C-AB	727	1147	0.634	708	5.0	8.316	A
C-A	693			693			
A-B	1			1			
A-C	827			827			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	174	340	0.512	174	1.0	21.666	C
C-AB	727	1147	0.634	726	5.2	9.103	A
C-A	693			693			
A-B	1			1			
A-C	827			827			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	174	340	0.512	174	1.0	21.715	C
C-AB	727	1147	0.634	727	5.3	9.149	A
C-A	693			693			
A-B	1			1			
A-C	827			827			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	174	340	0.512	174	1.0	21.732	C
C-AB	727	1147	0.634	727	5.4	9.168	A
C-A	693			693			
A-B	1			1			
A-C	827			827			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	174	339	0.513	174	1.0	21.740	C
C-AB	727	1147	0.634	727	5.4	9.175	A
C-A	693			693			
A-B	1			1			
A-C	827			827			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	174	339	0.513	174	1.0	21.744	C
C-AB	727	1147	0.634	727	5.4	9.180	A
C-A	693			693			
A-B	1			1			
A-C	827			827			

Sensitivity Test - 2028 + CD + Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	91.43	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D11	2028 + CD + Development	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	1184	100.000
B - West Lane		✓	311	100.000
C - Havant Road EB		✓	692	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	0	1184
	B - West Lane	0	0	311
	C - Havant Road EB	610	82	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	1.10	638.14	52.1	F
C-AB	0.29	10.66	0.7	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	311	282	1.105	261	12.6	111.455	F
C-AB	140	480	0.292	138	0.7	10.494	B
C-A	552			552			
A-B	0			0			
A-C	1184			1184			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	311	282	1.105	277	21.1	243.917	F
C-AB	140	480	0.292	140	0.7	10.653	B
C-A	552			552			
A-B	0			0			
A-C	1184			1184			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	311	282	1.105	279	29.1	346.116	F
C-AB	140	480	0.292	140	0.7	10.658	B
C-A	552			552			
A-B	0			0			
A-C	1184			1184			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	311	282	1.105	280	36.9	444.756	F
C-AB	140	480	0.292	140	0.7	10.658	B
C-A	552			552			
A-B	0			0			
A-C	1184			1184			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	311	282	1.105	280	44.5	541.866	F
C-AB	140	480	0.292	140	0.7	10.661	B
C-A	552			552			
A-B	0			0			
A-C	1184			1184			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	311	282	1.105	281	52.1	638.139	F
C-AB	140	480	0.292	140	0.7	10.660	B
C-A	552			552			
A-B	0			0			
A-C	1184			1184			

Sensitivity Test - 2028 + CD + Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	6.40	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D12	2028 + CD + Development	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	847	100.000
B - West Lane		✓	194	100.000
C - Havant Road EB		✓	1483	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	1	846
	B - West Lane	0	0	194
	C - Havant Road EB	1221	262	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.54	22.15	1.2	C
C-AB	0.74	12.56	9.8	B
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	194	356	0.544	189	1.1	21.036	C
C-AB	944	1281	0.737	910	8.5	10.075	B
C-A	539			539			
A-B	1			1			
A-C	846			846			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	194	356	0.544	194	1.2	22.099	C
C-AB	944	1281	0.737	941	9.2	12.188	B
C-A	539			539			
A-B	1			1			
A-C	846			846			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	194	356	0.544	194	1.2	22.126	C
C-AB	944	1281	0.737	943	9.5	12.405	B
C-A	539			539			
A-B	1			1			
A-C	846			846			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	194	356	0.544	194	1.2	22.138	C
C-AB	944	1281	0.737	944	9.6	12.489	B
C-A	539			539			
A-B	1			1			
A-C	846			846			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	194	356	0.544	194	1.2	22.142	C
C-AB	944	1281	0.737	944	9.7	12.535	B
C-A	539			539			
A-B	1			1			
A-C	846			846			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	194	356	0.544	194	1.2	22.146	C
C-AB	944	1281	0.737	944	9.8	12.560	B
C-A	539			539			
A-B	1			1			
A-C	846			846			

Sensitivity Test - 2036 Future Year + CD, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	64.47	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D13	2036 Future Year + CD	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	1206	100.000
B - West Lane		✓	292	100.000
C - Havant Road EB		✓	701	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	0	1206
	B - West Lane	1	0	291
	C - Havant Road EB	628	73	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	1.06	481.03	37.4	F
C-AB	0.26	10.62	0.6	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	274	1.065	250	10.4	100.862	F
C-AB	123	463	0.265	120	0.6	10.476	B
C-A	578			578			
A-B	0			0			
A-C	1206			1206			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	274	1.065	267	16.7	207.792	F
C-AB	123	463	0.265	123	0.6	10.611	B
C-A	578			578			
A-B	0			0			
A-C	1206			1206			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	274	1.065	270	22.2	281.981	F
C-AB	123	463	0.265	123	0.6	10.615	B
C-A	578			578			
A-B	0			0			
A-C	1206			1206			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	274	1.065	271	27.4	350.707	F
C-AB	123	463	0.265	123	0.6	10.617	B
C-A	578			578			
A-B	0			0			
A-C	1206			1206			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	274	1.065	272	32.5	416.704	F
C-AB	123	463	0.265	123	0.6	10.617	B
C-A	578			578			
A-B	0			0			
A-C	1206			1206			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	274	1.065	272	37.4	481.030	F
C-AB	123	463	0.265	123	0.6	10.620	B
C-A	578			578			
A-B	0			0			
A-C	1206			1206			

Sensitivity Test - 2036 Future Year + CD, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	5.77	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D14	2036 Future Year + CD	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	868	100.000
B - West Lane		✓	183	100.000
C - Havant Road EB		✓	1488	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	1	867
	B - West Lane	1	0	182
	C - Havant Road EB	1248	240	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.62	32.63	1.6	D
C-AB	0.68	10.26	7.4	B
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	183	313	0.585	178	1.3	25.780	D
C-AB	845	1235	0.684	818	6.6	8.863	A
C-A	643			643			
A-B	1			1			
A-C	867			867			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	183	296	0.619	182	1.5	31.323	D
C-AB	845	1235	0.684	843	7.1	10.102	B
C-A	643			643			
A-B	1			1			
A-C	867			867			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	183	294	0.622	183	1.6	32.129	D
C-AB	845	1235	0.684	844	7.3	10.196	B
C-A	643			643			
A-B	1			1			
A-C	867			867			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	183	294	0.623	183	1.6	32.403	D
C-AB	845	1235	0.684	844	7.4	10.234	B
C-A	643			643			
A-B	1			1			
A-C	867			867			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	183	293	0.624	183	1.6	32.543	D
C-AB	845	1235	0.684	845	7.4	10.252	B
C-A	643			643			
A-B	1			1			
A-C	867			867			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	183	293	0.625	183	1.6	32.629	D
C-AB	845	1235	0.684	845	7.4	10.262	B
C-A	643			643			
A-B	1			1			
A-C	867			867			

Sensitivity Test - 2036 + CD + Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	159.39	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D15	2036 + CD + Development	AM	FLAT	07:45	09:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	1238	100.000
B - West Lane		✓	326	100.000
C - Havant Road EB		✓	725	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	0	1238
	B - West Lane	0	0	326
	C - Havant Road EB	639	86	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	1.21	1113.90	89.1	F
C-AB	0.32	10.78	0.9	B
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	326	270	1.209	255	17.7	148.104	F
C-AB	159	496	0.320	155	0.8	10.567	B
C-A	566			566			
A-B	0			0			
A-C	1238			1238			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	326	270	1.209	268	32.3	360.648	F
C-AB	159	496	0.320	158	0.8	10.759	B
C-A	566			566			
A-B	0			0			
A-C	1238			1238			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	326	270	1.209	269	46.6	549.280	F
C-AB	159	496	0.320	158	0.8	10.768	B
C-A	566			566			
A-B	0			0			
A-C	1238			1238			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	326	270	1.209	269	60.8	737.481	F
C-AB	159	496	0.320	158	0.8	10.773	B
C-A	566			566			
A-B	0			0			
A-C	1238			1238			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	326	270	1.209	269	75.0	925.678	F
C-AB	159	496	0.320	158	0.9	10.774	B
C-A	566			566			
A-B	0			0			
A-C	1238			1238			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	326	270	1.209	269	89.1	1113.899	F
C-AB	159	496	0.320	158	0.9	10.775	B
C-A	566			566			
A-B	0			0			
A-C	1238			1238			

Sensitivity Test - 2036 + CD + Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	West Lane/ Havant Road	T-Junction	Two-way	8.73	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D16	2036 + CD + Development	PM	FLAT	16:45	18:15	90	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Havant Road WB		✓	887	100.000
B - West Lane		✓	203	100.000
C - Havant Road EB		✓	1552	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	0	1	886
	B - West Lane	0	0	203
	C - Havant Road EB	1278	274	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Havant Road WB	B - West Lane	C - Havant Road EB
From	A - Havant Road WB	10	10	10
	B - West Lane	10	10	10
	C - Havant Road EB	10	10	10

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max LOS
B-AC	0.58	24.87	1.4	C
C-AB	0.79	16.52	14.3	C
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	348	0.584	198	1.3	23.289	C
C-AB	1090	1379	0.791	1043	11.7	11.405	B
C-A	462			462			
A-B	1			1			
A-C	886			886			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	348	0.584	203	1.4	24.794	C
C-AB	1090	1379	0.791	1085	13.1	15.392	C
C-A	462			462			
A-B	1			1			
A-C	886			886			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	348	0.584	203	1.4	24.843	C
C-AB	1090	1379	0.791	1088	13.7	16.014	C
C-A	462			462			
A-B	1			1			
A-C	886			886			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	348	0.584	203	1.4	24.860	C
C-AB	1090	1379	0.791	1089	14.0	16.280	C
C-A	462			462			
A-B	1			1			
A-C	886			886			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	348	0.584	203	1.4	24.869	C
C-AB	1090	1379	0.791	1089	14.2	16.427	C
C-A	462			462			
A-B	1			1			
A-C	886			886			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	348	0.584	203	1.4	24.874	C
C-AB	1090	1379	0.791	1090	14.3	16.522	C
C-A	462			462			
A-B	1			1			
A-C	886			886			