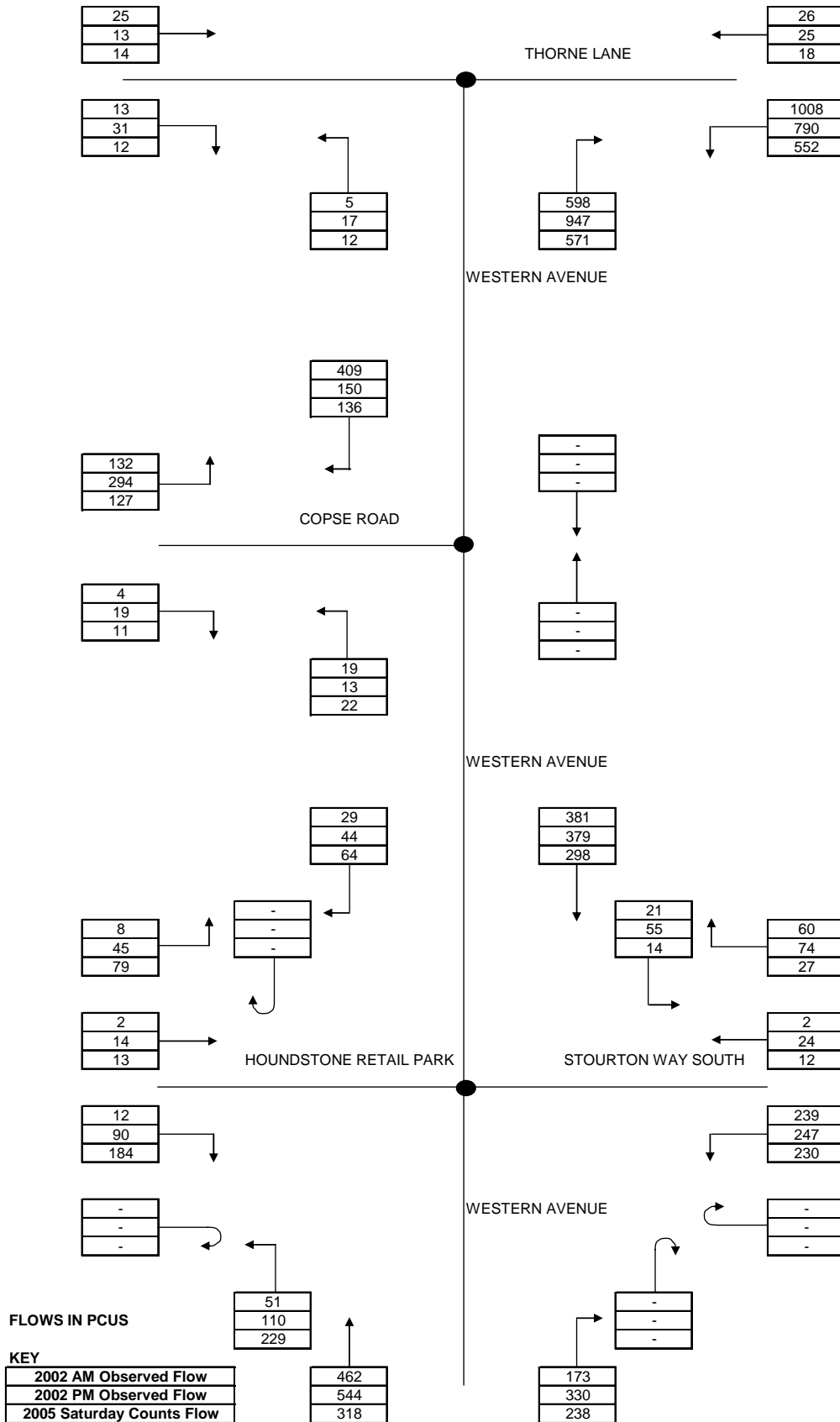


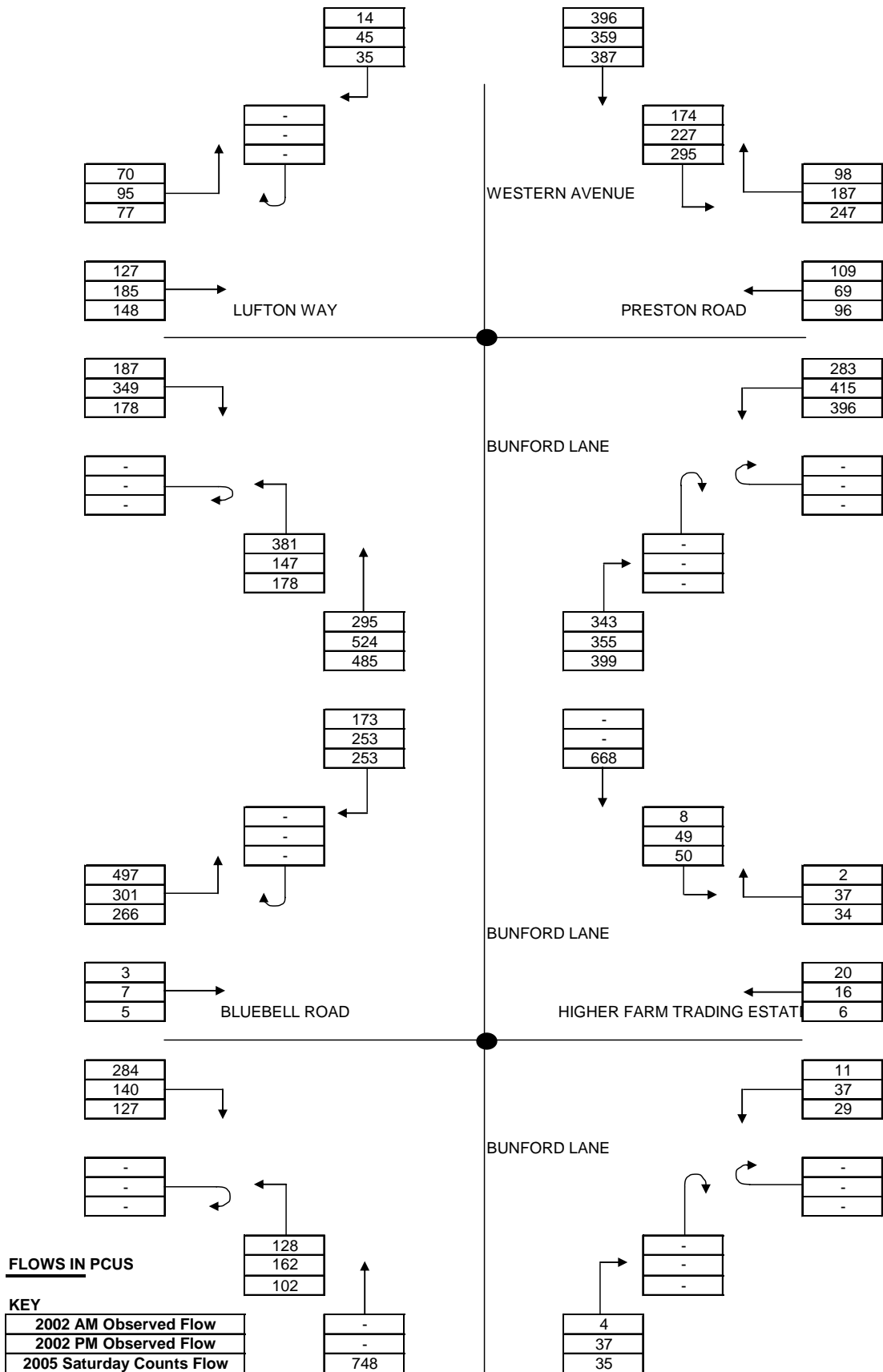
APPENDIX A

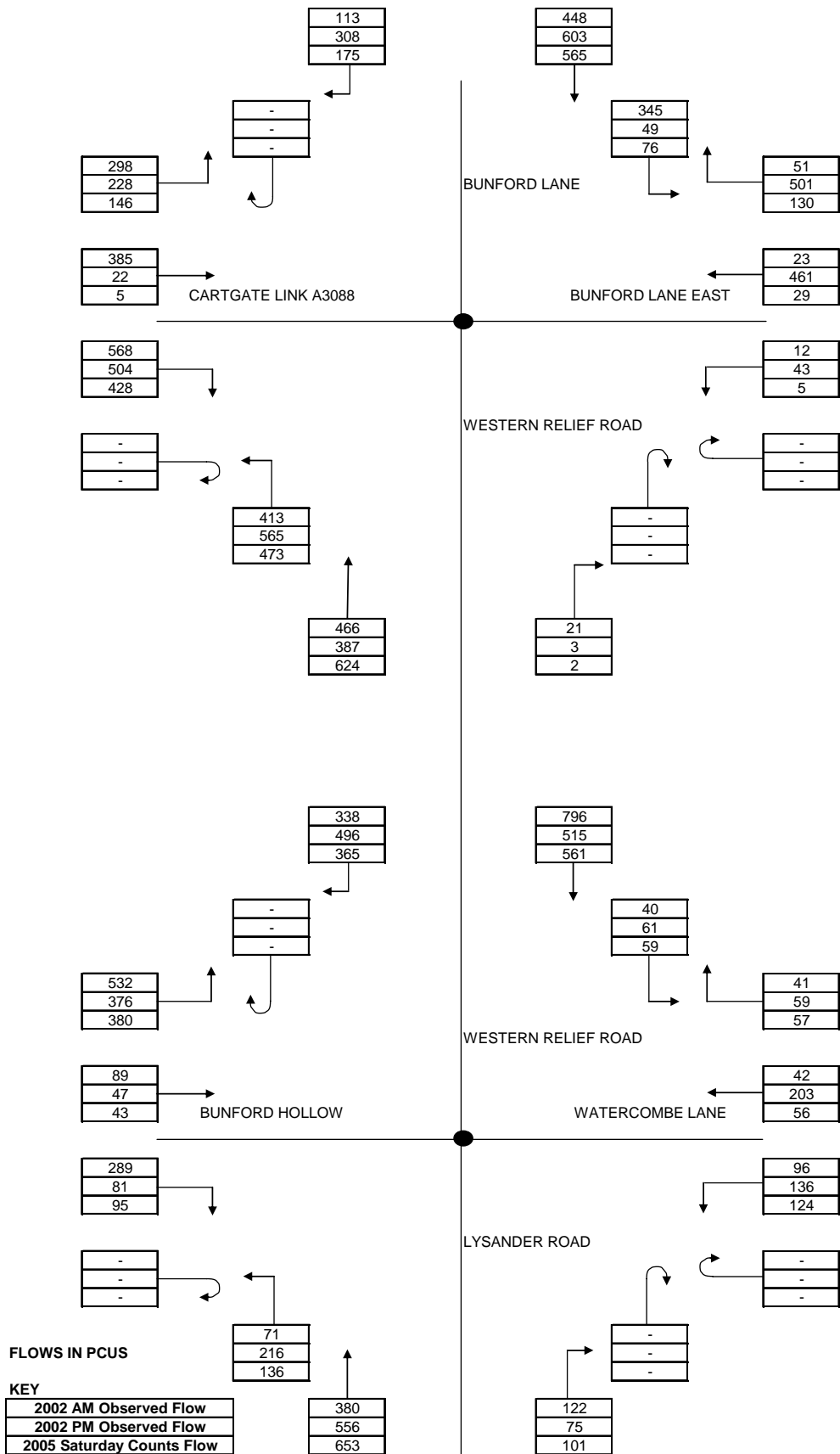
Base Year Traffic Counts

A. Base Year Traffic Counts

- ◆ AM, PM and Saturday Peak Observed Traffic Flows
 - ◆ Thorne Lane through to Houndstone Retail Park
- ◆ AM, PM and Saturday Peak Observed Traffic Flows
 - ◆ Preston Road & Bluebell Rd Roundabout
- ◆ AM, PM and Saturday Peak Observed Traffic Flows
 - ◆ Westland's Roundabout through to Lysander Road Roundabout







APPENDIX B

Comparison of Predicted & Observed Traffic Flows, 2002

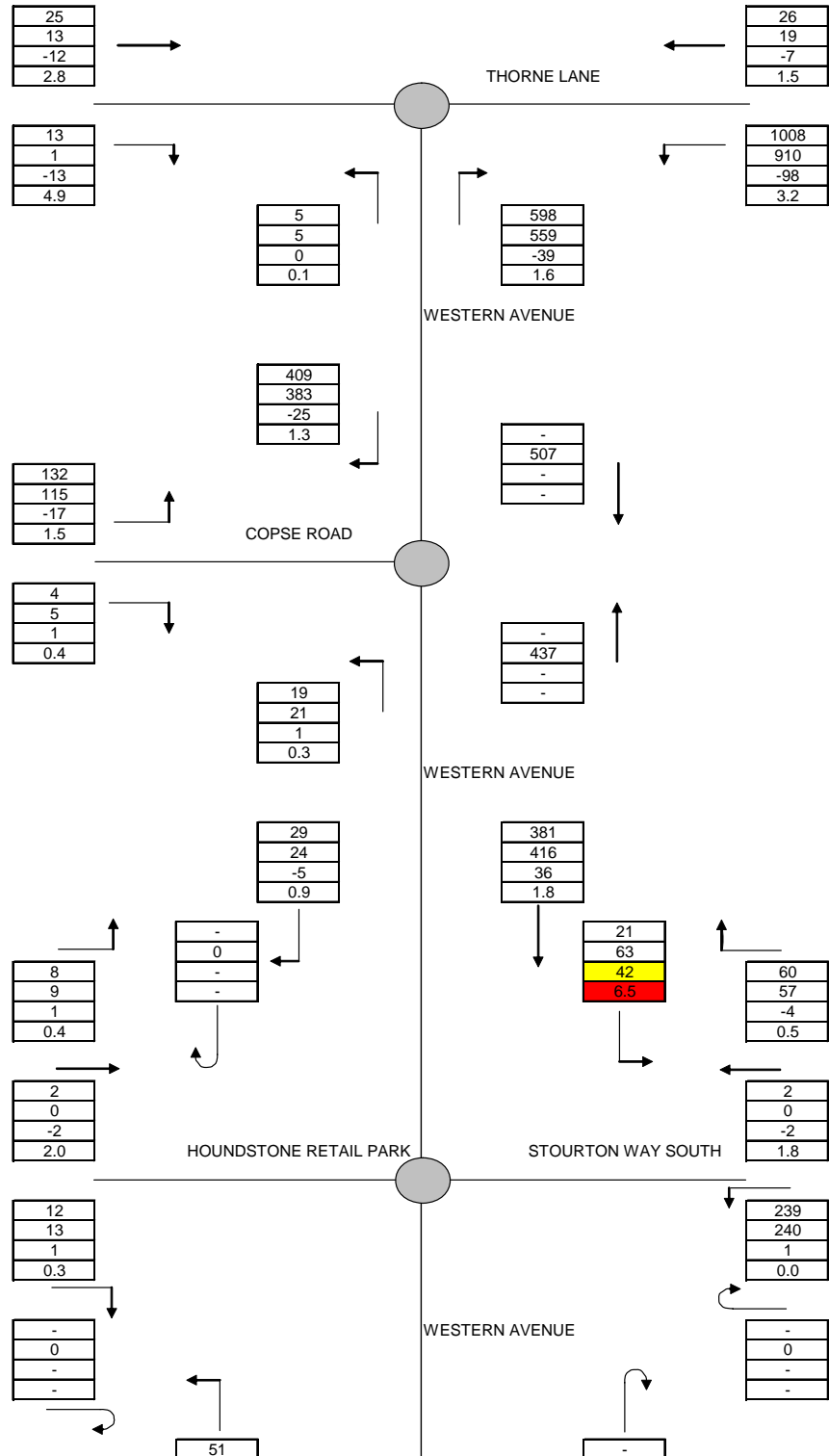
B. Comparison of Predicted & Observed Traffic Flows, 2002

- ◆ AM Peak Observed, Modelled & GEH Statistic
 - ◆ Thorne Lane through to Houndstone Retail Park
 - ◆ Preston Road & Bluebell Rd Roundabout
 - ◆ Westland's Roundabout through to Lysander Road Roundabout
- ◆ PM Peak Observed, Modelled & GEH Statistic
 - ◆ Thorne Lane through to Houndstone Retail Park
 - ◆ Preston Road & Bluebell Rd Roundabout
 - ◆ Westland's Roundabout through to Lysander Road Roundabout

2002 AM OBSERVED FLOW
2002 AM MODELLED FLOW
DIFFERENCE
GEH

FLOWS IN PCUS

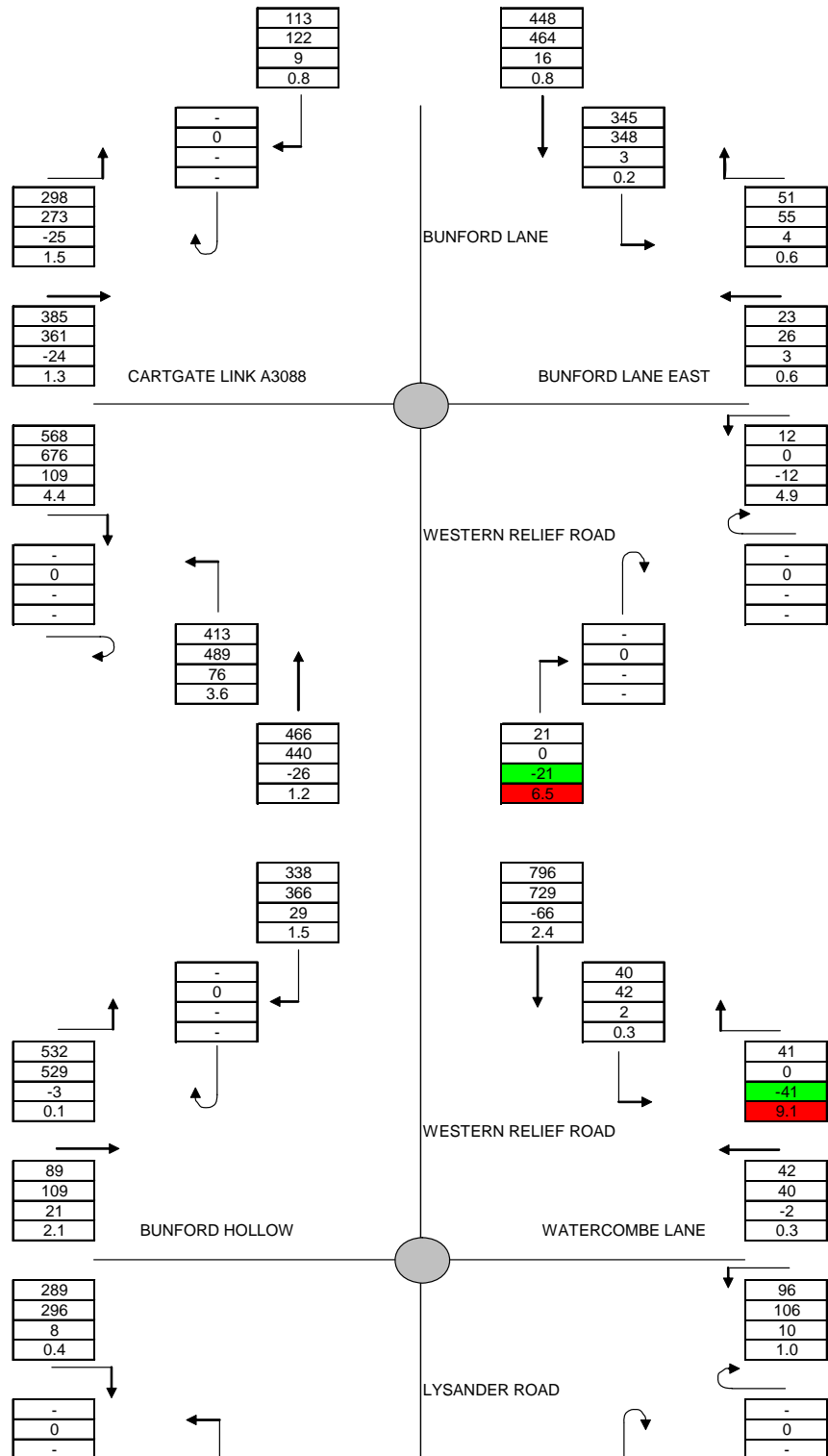
GEH greater than 5
Difference (Mod > Obs)
Difference (Mod < Obs)



2002 AM OBSERVED FLOW
2002 AM MODELLED FLOW
DIFFERENCE
GEH

FLOWS IN PCUS

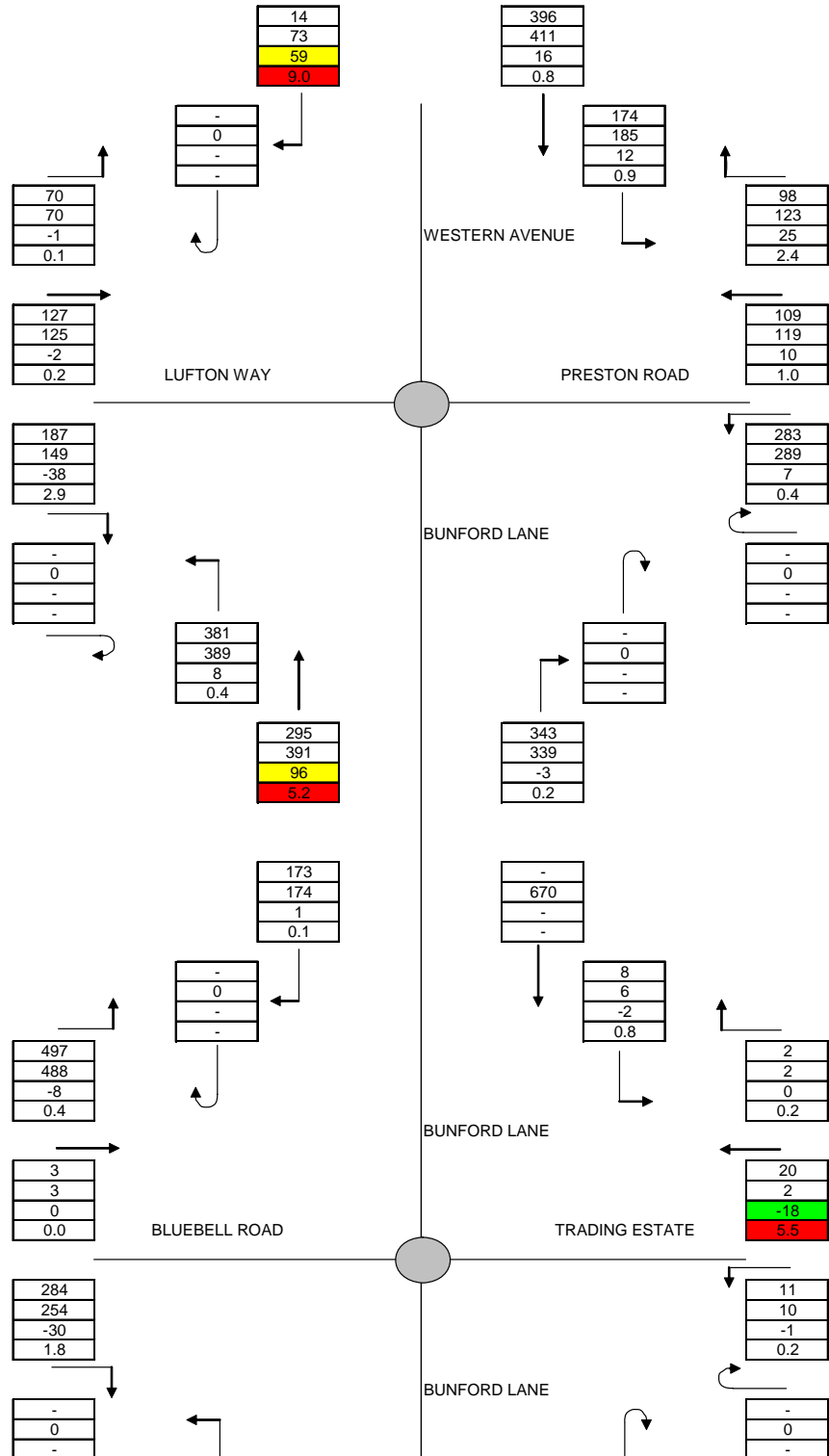
GEH greater than 5
Difference (Mod > Obs)
Difference (Mod < Obs)



2002 AM OBSERVED FLOW
2002 AM MODELLED FLOW
DIFFERENCE
GEH

FLOWS IN PCUS

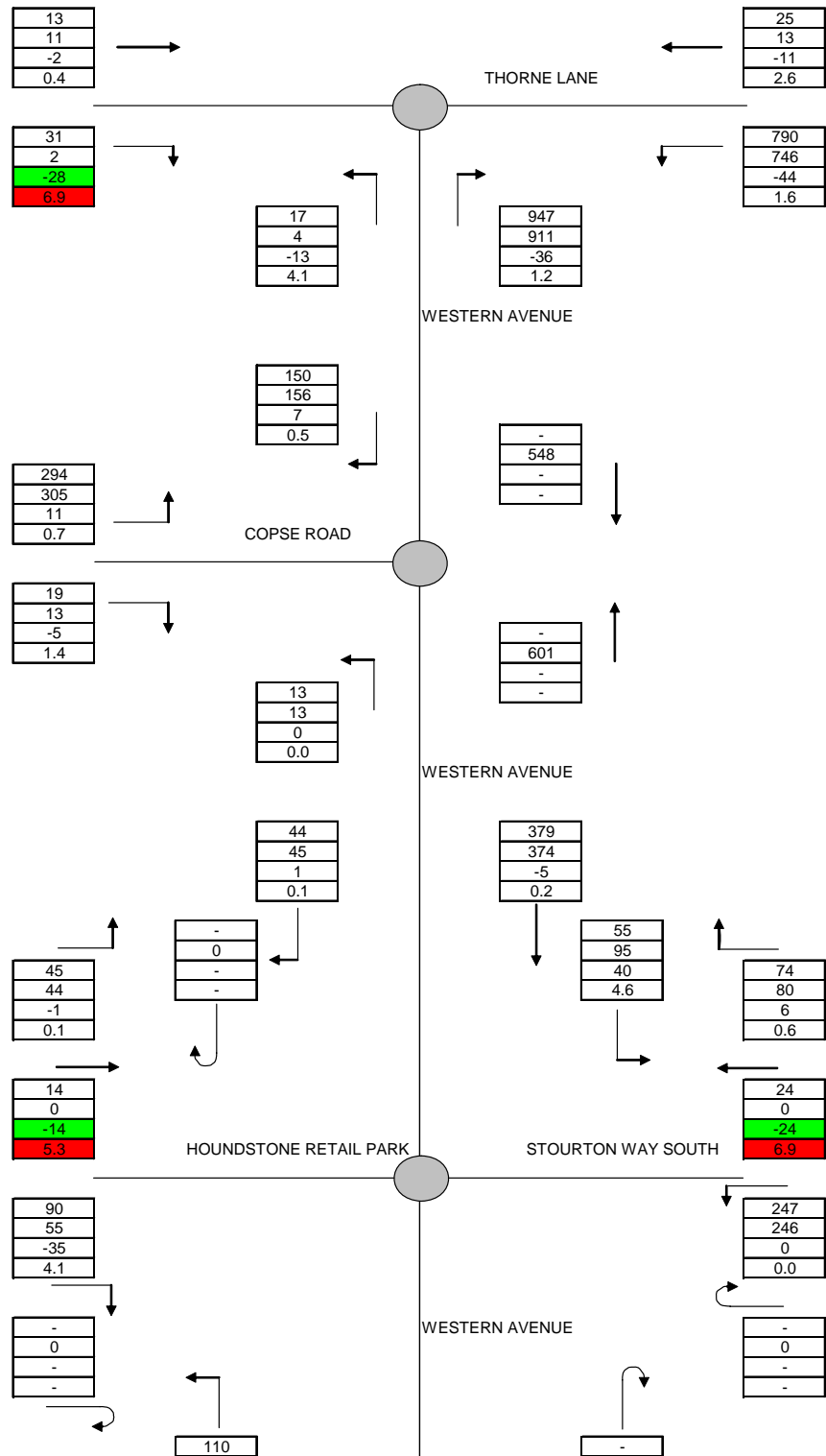
GEH greater than 5
Difference (Mod > Obs)
Difference (Mod < Obs)



2002 PM OBSERVED FLOW
2002 PM MODELLED FLOW
DIFFERENCE
GEH

FLOWS IN PCUS

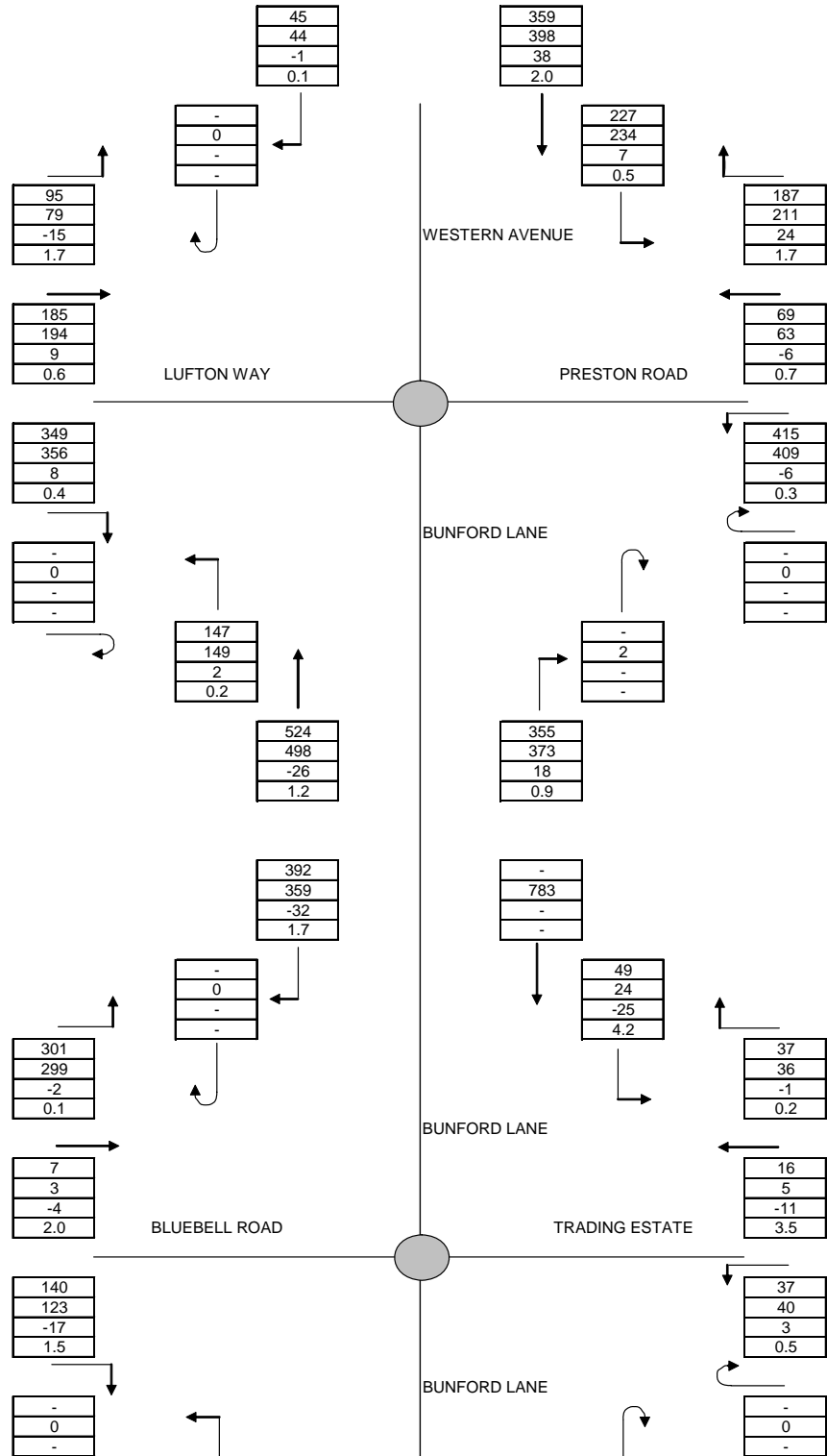
GEH greater than 5
Difference (Mod > Obs)
Difference (Mod < Obs)



2002 PM OBSERVED FLOW
2002 PM MODELLED FLOW
DIFFERENCE
GEH

FLOW IN PCUS

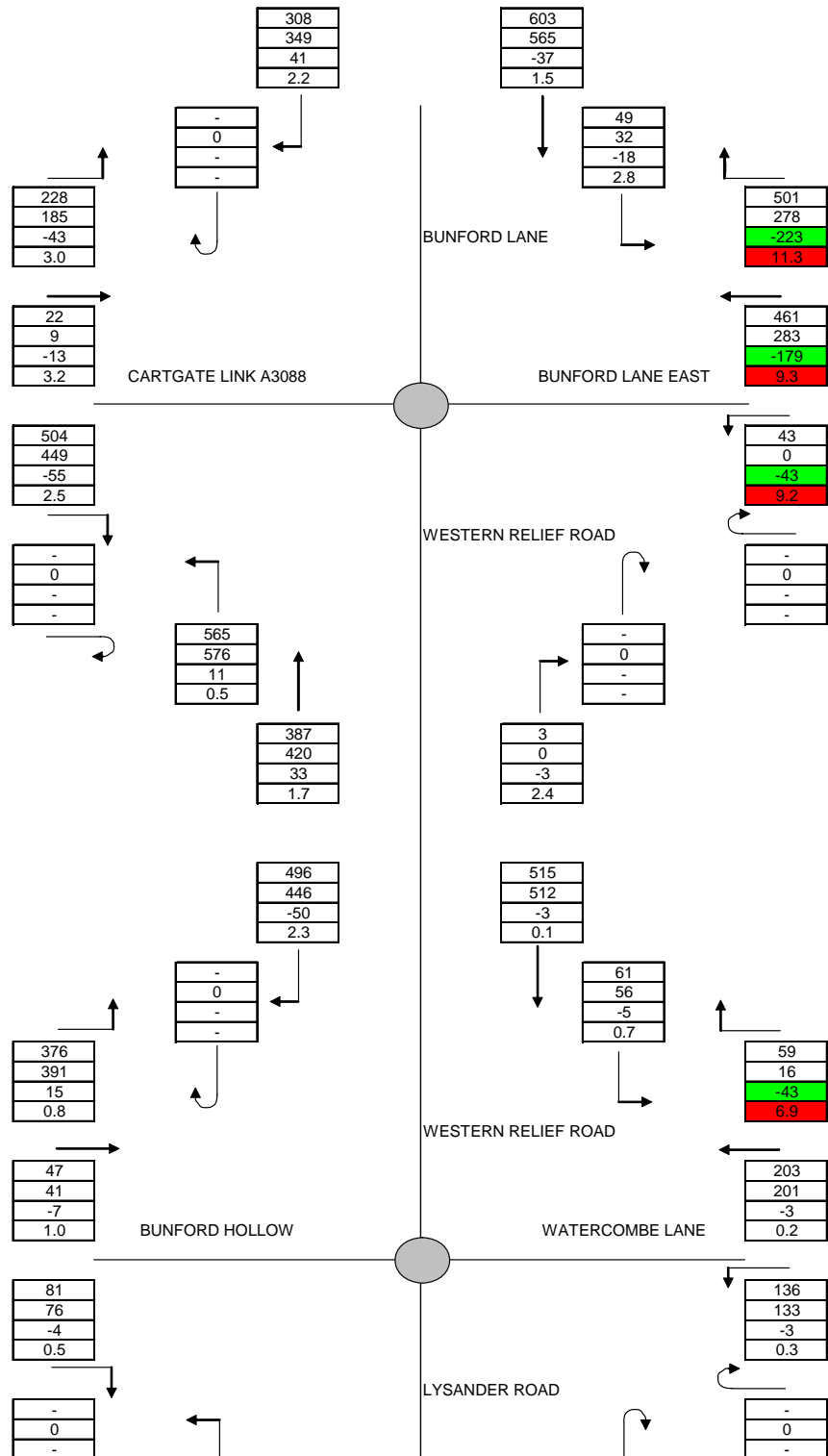
GEH greater than 5
Difference (Mod > Obs)
Difference (Mod < Obs)



2002 PM OBSERVED FLOW
2002 PM MODELLED FLOW
DIFFERENCE
GEH

FLOW IN PCUS

GEH greater than 5
Difference (Mod > Obs)
Difference (Mod < Obs)



APPENDIX C

Operational Assessment, Base 2002

C. Operational Assessment

BASE ADJUSTED 2002 ACTUAL FLOWS

Table C.1 - Thorne Lane - Priority Junction

Arm	Lane	AM ¹		PM ²	
		RFC	Q	RFC	Q
A: Thorne Lane (East)		-	-	-	-
B: Western Avenue	L	1.021	1.6	1.712	2.1
	R	1.372	98.6	2.070	363.4
C: Thorne Lane (West)	S/R	0.003	0.0	0.005	0.0
Inclusive Delays (mins)		5689		36253	

Table C.2 - Copse Road- Priority Junction

Arm	Lane	AM ³		PM ⁴	
		RFC	Q	RFC	Q
A: Western Avenue (South)		-	-	-	-
B: Copse Road	L	0.206	0.3	0.597	1.4
	R	0.036	0.0	0.091	0.1
C: Western Avenue (North)	R	0.706	2.3	0.312	0.4
Inclusive Delays (mins)		147.0		119.6	

Table C.3 – Houndstone Retail Park- Roundabout

Arm	AM ⁵		PM ⁶		
	RFC	Q	RFC	Q	
A: Western Avenue (North)	0.281	0.4	0.309	0.4	
B: Stourton Way	0.273	0.4	0.316	0.5	
C: Western Avenue (South)	0.428	0.7	0.448	0.8	
D: Retail Park	0.019	0.0	0.113	0.1	
Inclusive Delays (mins)		103.0		124.5	

¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 1 Thorne Lane AM .vpi

² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 1 Thorne Lane PM .vpi

³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 2 Copse Rd AM .vpi

⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 2 Copse Rd PM .vpi

⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 3 Houndstone AM .vai

⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 3 Houndstone PM .vai

Table C.4 - Preston Road- Roundabout

Arm	AM ⁷		PM ⁸	
	RFC	Q	RFC	Q
A: Western Avenue (North)	0.459	0.8	0.559	1.3
B: Preston Road East	0.383	0.6	0.531	1.1
C: Bunford Lane (South)	0.664	2.0	0.680	2.1
D: Lufton Way (West)	0.355	0.5	0.722	2.5
Inclusive Delays (mins)	243.2		382.6	

Table C.5 -Asda Traffic Lights

Arm	Lane	AM ⁹		PM ¹⁰	
		RFC	Q	RFC	Q
A: Preston Road (East)	S/L	0.406	3.8	0.676	6.4
B: Asda	L	0.141	0.8	0.127	0.7
	R	0.344	1.0	0.584	1.9
C: Preston Road (West)	S	0.483	4.6	0.625	5.9
	R	0.439	1.3	0.690	3.0
PRC / Inclusive Delay		105.1% / 273.6		43.6% / 553.5	

Table C.6 - Bluebell Rd Roundabout

Arm	AM ¹¹		PM ¹²	
	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.534	1.1	0.715	2.5
B: Trading Estate	0.017	0.0	0.115	0.1
C: Bunford Lane (South)	0.411	0.7	0.528	1.1
D: Bluebell Rd	0.584	1.4	0.352	0.5
Inclusive Delays (mins)	202.1		252.9	

⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 4 Preston Rd AM .vai

⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 4 Preston Rd PM .vai

⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 9 Asda AM .voi

¹⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 9 Asda PM .voi

¹¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 5 Bluebell Rd AM .vai

¹² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 5 Bluebell Rd PM .vai

Table C.7 – Westland’s Roundabout

Arm	AM ¹³		PM ¹⁴	
	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.661	1.9	0.534	1.1
B: Bunford Lane (East)	0.088	0.1	1.212	94.1
C: Western Relief Road (South)	0.489	1.0	0.808	4.0
D: Cartgate Link	0.825	4.5	0.501	1.0
Inclusive Delays (mins)	389.4		3312.4	

Table C.8 – Lysander Road Roundabout

Arm	AM ¹⁵		PM ¹⁶	
	RFC	Q	RFC	Q
A: Western Relief Road (West)	0.993	22.2	0.742	2.8
B: Watercombe Lane (North)	0.226	0.3	0.363	0.6
C: Lysander Road (East)	0.400	0.7	0.656	1.9
D: Watercombe Lane (South)	0.618	1.6	0.354	0.5
Inclusive Delays (mins)	806.5		329.3	

¹³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 6 Westlands AM

¹⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 6 Westlands PM .vai

¹⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 8 Lysander Rd AM .vai

¹⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2002\Jct 8 Lysander Rd PM .vai

APPENDIX D

**Operational Assessment:
Do Minimum, 2011**

D. Operational Assessment:

Do MINIMUM, 2011 ACTUAL FLOWS

Table D.1 - Thorne Lane - Priority Junction, Do Minimum 2011

Arm	Lane	AM ¹⁷		PM ¹⁸		Saturday ¹⁹	
		RFC	Q	RFC	Q	RFC	Q
A: Western Avenue (S)	N-A						
B: Thorne Lane (West)	L	0.126	0.1	0.089	0.1	0.099	0.1
	R	0.418	0.7	0.166	0.2	0.229	0.3
C: Western Avenue (N)	R	0.051	0.1	0.137	0.2	0.082	0.1
Inclusive Delay (mins)		49		27.9		32.2	

Table D.2 - Copse Road- Priority Junction, Do Minimum 2011

Arm	Lane	AM ²⁰		PM ²¹		Saturday ²²	
		RFC	Q	RFC	Q	RFC	Q
A: Western Avenue (South)	N-A						
B: Copse Road	L	0.229	0.3	1.332	59.6	0.354	0.5
	R	0.215	0.3	1.305	22.9	0.405	0.7
C: Western Avenue (North)	R	0.788	3.4	0.254	0.3	0.229	0.3
Inclusive Delay (mins)		202.1		3974.5		95.8	

¹⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 1 Thorne Lane AM DM.vpi

¹⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 1 Thorne Lane PM DM.vpi

¹⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 1 Thorne Lane Sat DM.vpi

²⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 2 Copse Rd AM DM.vpi

²¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 2 Copse Rd PM DM.vpi

²² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 2 Copse Rd Sat DM.vpi

Table D.3 – Houndstone Retail Park- Roundabout, Do Minimum 2011

Arm	AM ²³		PM ²⁴		Saturday ²⁵	
	RFC	Q	RFC	Q	RFC	Q
A: Western Avenue (North)	0.441	0.8	0.328	0.5	0.288	0.4
B: Stourton Way	0.281	0.4	0.253	0.3	0.220	0.3
C: Western Avenue (South)	0.511	1.0	0.434	0.8	0.428	0.7
D: Retail Park	0.016	0.0	0.10	0.1	0.169	0.2
Inclusive Delay (mins)	147		115.6		111.6	

Table D.4 - Preston Road- Roundabout, Do Minimum 2011

Arm	AM ²⁶		PM ²⁷		Saturday ²⁸	
	RFC	Q	RFC	Q	RFC	Q
A: Western Avenue (North)	0.674	2.0	0.663	1.9	0.662	1.9
B: Preston Road East	0.481	0.9	0.691	2.2	0.543	1.2
C: Bunford Lane (South)	0.815	4.2	0.782	3.5	0.845	5.2
D: Lufton Way (West)	0.460	0.8	0.804	3.9	0.606	1.5
Inclusive Delay (mins)	425.1		563.6		495.6	

²³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 3 Houndstone AM DM.vai

²⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 3 Houndstone PM DM.vai

²⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 3 Houndstone Sat DM.vai

²⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 4 Preston Rd 48m AM DM.vai

²⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 4 Preston Rd 48m PM DM.vai

²⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 4 Preston Rd 48m Sat DM.vai

Table D.5 -Asda Traffic Lights, Do Minimum 2011

Arm	Lane	AM ²⁹		PM ³⁰	
		RFC	Q	RFC	Q
A: Preston Road (East)	S/L	0.405	4.8	0.718	8.4
B: Asda	L	0.126	0.9	0.166	1.1
	R	0.334	1.3	0.605	2.7
C: Preston Road (West)	S	0.510	6.2	0.658	7.7
	R	0.262	1.0	0.597	2.7
PRC (%)/ Inclusive Delay (mins)		94.2% / 282.0		38.0% / 624.8	

Table D.6 - Bluebell Rd Roundabout, Do Minimum 2011

Arm	AM ³¹		PM ³²		Saturday ³³	
	RFC	Q	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.613	1.6	0.879	6.7	0.722	2.6
B: Trading Estate	0.012	0.0	0.218	0.3	0.124	0.1
C: Bunford Lane (South)	0.368	0.6	0.599	1.5	0.537	1.2
D: Bluebell Rd	0.631	1.7	0.416	0.7	0.381	0.6
Inclusive Delay (mins)	234.8		455.3		262.6	

Table D.7 – Westland’s Roundabout, Do Minimum 2011

Arm	AM ³⁴		PM ³⁵		Saturday ³⁶	
	RFC	Q	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.565	1.3	0.574	1.3	0.423	0.7
B: Bunford Lane (East)	0.103	0.1	1.273	115.2	0.146	0.2
C: Western Relief Road (South)	0.458	0.8	0.883	6.7	0.599	1.5
D: Cartgate Link	0.864	6	0.624	1.6	0.423	0.7
Inclusive Delay (mins)	401.8		4522.9		196.8	

²⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 9 Asda AM DM.voi

³⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 9 Asda PM DM.voi

³¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 5 Bluebell Rd AM DM.vai

³² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 5 Bluebell Rd PM DM.vai

³³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 5 Bluebell Rd Sat DM.vai

³⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 6 Westlands AM DM.vai

³⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 6 Westlands PM DM.vai

³⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 6 Westlands Sat DM.vai

Table D.8 – Bunford Park, Do Minimum 2011

Arm	Lane	AM ³⁷		PM ³⁸	
		RFC	Q	RFC	Q
A: Western Relief Road (East)	L	0.0	0.0	0.102	1.1
	S	0.846	15.5	0.439	5.6
B: Bunford Park	R	0.0	0.0	0.0	0.0
C: Western Relief Road (West)	S	0.610	6.7	0.606	6.8
	R	0.874	14.3	0.504	3.0
PRC / Inclusive Delay (mins)		12.7% / 1139.7		60.2% / 322.4	

Table D.9 – Lysander Road Roundabout, Do Minimum 2011

Arm	AM ³⁹		PM ⁴⁰		Saturday ⁴¹		
	RFC	Q	RFC	Q	RFC	Q	
A: Western Relief Road (West)	0.817	4.2	0.818	4.3	0.591	1.4	
B: Watercombe Lane (North)	0.194	0.2	0.540	1.2	0.298	0.4	
C: Lysander Road (East)	0.550	1.2	0.705	2.3	0.654	1.9	
D: Watercombe Lane (South)	0.572	1.3	0.566	1.3	0.389	0.6	
Inclusive Delay (mins)		367		462.4		261.5	

³⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 7 Bunford Park AM DM.voi

³⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 7 Bunford Park PM DM.voi

³⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 8 Lysander Rd AM DM.vai

⁴⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 8 Lysander Rd PM DM.vai

⁴¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DM\Jct 8 Lysander Rd Sat DM.vai

APPENDIX E

**Operational Assessments-
Option 1, 2011**

E. Operational Assessment:

OPTION 1, 2011, ACTUAL FLOWS

Table E.1 - Thorne Lane – Priority (Option 1, 2011)

Arm	Lane	AM ⁴²		PM ⁴³		Saturday ⁴⁴	
		RFC	Q	RFC	Q	RFC	Q
A: Western Avenue (S)	N-A						
B: Thorne Lane (West)	L	0.135	0.2	0.098	0.1	0.111	0.1
	R	0.195	0.2	0.121	0.1	0.148	0.2
C: Western Avenue (N)	R	0.068	0.1	0.149	0.2	0.171	0.2
Inclusive Delay (mins)		30.9		26.4		30.8	

Table E.2 - Copse Road- Roundabout (Option 1, 2011)

Arm	Lane	AM ⁴⁵		PM ⁴⁶		Sat ⁴⁷	
		RFC	Q	RFC	Q	RFC	Q
A: Western Avenue (South)	L/S	0.435	2.2	0.522	2.9	0.334	3.1
B: Copse Road	L	0.094	0.1	0.073	0.2	0.167	1.0
	R	0.303	0.4	0.630	1.5	0.341	0.9
C: Western Avenue (North)	S	0.253	0.5	0.521	1.61	0.186	1.3
	R	0.634	2.8	0.543	1.3	0.437	2.1
PRC /Inclusive Delay (mins)		82.4% / 422.6		102.1% / 516.8		126.8% / 249.5	

⁴² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 1 Thorne Lane AM DS1.vpi

⁴³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 1 Thorne Lane PM DS1.vpi

⁴⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 1 Thorne Lane Sat DS1.vpi

⁴⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 2 Copse Rd AM DS1.voi

⁴⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 2 Copse Rd PM DS1.voi

⁴⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 2 Copse Rd Sat DS1.voi

Table E.3 – Houndstone Retail Park- Traffic Lights (Option 1, 2011)

Arm	Lane	AM ⁴⁸		PM ⁴⁹		Saturday ⁵⁰	
		RFC	Q	RFC	Q	RFC	Q
A: Western Ave (North)	L/S	0.610	5.6	0.472	4.3	0.388	3.4
	R	0.005	0.0	0.158	0.6	0.152	0.6
B: Stourton Way	L/S/R	0.746	6.5	0.870	6.9	0.761	5.3
C: Western Ave (South)	L/S	0.592	5.3	0.846	9.8	0.783	7.9
	R	0.609	2.9	0.598	2.8	0.508	2.2
D: Retail Park	L	0.017	0.1	0.130	0.5	0.175	0.8
	S/R	0.071	0.3	0.434	1.9	0.730	4.5
PRC (%) / Inclusive Delay (mins)		32.9% / 731.9		51.3% / 973.6		26.6% / 907.6	

Table E.4 - Preston Road- Traffic Lights (Option 1, 2011)

Arm	Lane	AM ⁵¹		PM ⁵²		Saturday ⁵³	
		RFC	Q	RFC	Q	RFC	Q
A: Western Ave (North)	L			0.833	6.0		
	S	0.735	4.2	0.593	4.3	0.504	1.9
	R	0.035	0.1	0.156	0.6	0.046	0.1
B: Preston Road East	S	0.590	3.0	0.363	2.1	0.108	0.3
	R	0.393	1.8	0.227	1.6	0.594	2.4
C: Bunford Lane (South)	S	0.083	0.4	0.679	4.3	0.514	1.9
	R	0.371	1.1	0.795	3.1	0.537	1.5
D: Lufton Way (West)	S	0.667	3.5	0.875	7.5	0.660	2.7
	R	0.722	3.5	0.907	10.7	0.468	1.3
PRC (%) / Inclusive Delay (mins)		34.7% / 861.3		9.3% / 1784.6		501.% / 697.8	

⁴⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 3 Houndstone AM DS1.voi

⁴⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 3 Houndstone PM DS1.voi

⁵⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 3 Houndstone Sat DS1.voi

⁵¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 4 Preston Rd AM DS1.voi

⁵² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 4 Preston Rd PM DS1.voi

⁵³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 4 Preston Rd Sat DS1.voi

Table E.5 – Asda Traffic Lights (Option 1, 2011)

Q		AM ⁵⁴		PM ⁵⁵	
		RFC	Q	RFC	Q
A: Preston Road (East)	S/L	0.489	5.9	0.572	5.5
B: Asda	L	0.121	0.9	0.119	0.7
	R	0.340	1.3	0.498	2.0
C: Preston Road (West)	S	0.367	4.3	0.555	5.5
	R	0.224	0.9	0.537	2.3
PRC (%) / Inclusive Delay (mins)		102.7% / 259.5		73.2% / 446	

Table E.6 – Bluebell Rd Roundabout- Traffic Lights (Option 1, 2011)

Arm	Lane	AM ⁵⁶		PM ⁵⁷		Saturday ⁵⁸	
		RFC	Q	RFC	Q	RFC	Q
A: Bunford Lane (North)	L/S	0.489	2.2	0.570	3	0.498	2.5
	R	0.575	3.4	0.697	5.0	0.564	3.5
B: Trading Estate	L/S	0.051	0.1	0.238	0.6	0.172	0.5
	R	0.0	0.0	0.247	0.7	0.161	0.6
C: Bunford Lane (South)	L/S	0.486	2.2	0.586	3.1	0.534	2.7
	R	0.014	0.0	0.179	0.7	0.516	2.0
D: Bluebell Rd	L	0.311	1.2	0.250	1.1	0.183	0.8
	S	0.003	0.0	0.00	0.0	0.003	0.0
	R	0.474	2.1	0.451	1.8	0.301	1.2
PRC (%) / Inclusive Delay (mins)		70.6% / 517.4		38.9% / 741.5		72.6% / 620.8	

⁵⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 9 Asda AM DS1.voi

⁵⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 9 Asda PM DS1.voi

⁵⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 5 Bluebell Rd AM DS1.voi

⁵⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 5 Bluebell Rd PM DS1.voi

⁵⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 5 Bluebell Rd Sat DS1.voi

Table E.7 – Westland’s Roundabout (Option 1, 2011 - 64m ICD)

Arm	AM ⁵⁹		PM ⁶⁰		Saturda ⁶¹ y	
	RFC	Q	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.441	0.8	0.390	0.6	0.299	0.4
B: Bunford Lane (East)	0.095	0.1	1.243	10.4.2	0.080	0.1
C: Western Relief Road (South)	0.323	0.5	0.723	2.6	0.469	0.9
D: Cartgate Link	0.673	2.0	0.446	0.78	0.294	0.4
Inclusive Delay (mins)	207.0		3875.9		122.1	

Table E.8 –Bunford Park (Option 1, 2011)

Arm	Lane	AM ⁶²		PM ⁶³	
		RFC	Q	RFC	Q
A: Western Relief Road (East)	L	0.050	0.6	0.126	1.3
	S	0.784	12.8	0.695	9.3
B: Bunford Park	R	0.043	0.1	0.836	7.7
C: Western Relief Road (West)	S	0.682	7.6	0.813	11.2
	R	0.820	11.6	0.558	2.3
PRC/ Inclusive Delay (mins)		20.8% / 988.6		24.9% / 970.6	

⁵⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 6 Westlands 64m AM DS1.vai

⁶⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 6 Westlands 64m PM DS1.vai

⁶¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 6 Westlands 64m Sat DS1.vai

⁶² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 7 Bunford Park AM DS1.voi

⁶³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 7 Bunford Park PM DS1.voi

Table E.9 – Lysander Road- Traffic Lights (Option 1, 2011)

Arm	Lane	AM ⁶⁴		PM ⁶⁵		Saturday ⁶⁶	
		RFC	Q	RFC	Q	RFC	Q
A: Western Relief Road (West)	L/S	0.866	10.2	0.780	10.0	0.618	6.8
	R	0.509	2.3	0.905	7.0	0.771	3.8
B: Watercombe Lane (North)	L	0.361	1.8	0.814	5.2	0.711	4.1
	S/R	0.347	1.5				
C: Lysander Road (East)	L/S	0.744	7.4	0.975	21.7	0.935	15.9
	R	0.766	4.7	0.343	2.0	0.598	3.0
D: Watercombe Lane (South)	L	0.509	4.3	0.525	5.3	0.484	3.3
	S	0.424	2.4	0.158	0.9	0.179	1.0
	R	0.555	3.4	0.943	7.9	0.30	1.8
PRC / Inclusive Delay (mins)		14.4% / 1405		1.6% / 2494		6.0% / 1665.7	

⁶⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 8 Lysander Rd AM DS1.voi

⁶⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 8 Lysander Rd PM DS1.voi

⁶⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS1\Jct 8 Lysander Rd Sat DS1.voi

APPENDIX F

**Operational Assessment:
Option 2, 2011**

F. Operational Assessment:

OPTION 2, 2011, ACTUAL TRAFFIC FLOWS

Table F.1 - Thorne Lane – Priority Junction (Option 2, 2011)

Arm	Lane	AM ⁶⁷		PM ⁶⁸		Sat ⁶⁹	
		RFC	Q	RFC	Q	RFC	Q
A: Thorne Lane (East)	N-A						
B: Thorne Lane (West)	L	0.136	0.2	0.105	0.1	0.140	0.2
	R	0.370	0.6	0.170	0.1	0.219	0.3
C: Western Avenue	R	0.055	0.1	0.149	0.2	0.109	0.1
Inclusive Delay (mins)		45.2		29.3		36.0	

Table F.2 - Copse Road- Roundabout (Option 2, 2011)

Arm	AM ⁷⁰		PM ⁷¹		Sat ⁷²		
	RFC	Q	RFC	Q	RFC	Q	
A: Western Avenue (South)	0.223	0.3	0.269	0.4	0.182	0.2	
B: Copse Road	0.101	0.1	0.552	1.2	0.235	0.2	
C: Western Avenue (North)	0.610	1.6	0.231	0.3	0.240	0.3	
Inclusive Delay (mins)		124.2		121.9		59.7	

Table F.3 – Houndstone Retail Park- Roundabout (Option 2, 2011)

Arm	AM ⁷³		PM ⁷⁴		Sat ⁷⁵		
	RFC	Q	RFC	Q	RFC	Q	
A: Western Avenue (North)	0.385	0.6	0.353	0.5	0.309	0.4	
B: Stourton Way	0.280	0.4	0.261	0.4	0.249	0.3	
C: Western Avenue (South)	0.365	0.6	0.599	1.5	0.476	0.9	
D: Retail Park	0.015	0.0	0.115	0.1	0.179	0.2	
Inclusive Delay (mins)		108.8		161.6		127.8	

⁶⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 1 Thorne Lane AM DS2.vpi

⁶⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 1 Thorne Lane PM DS2.vpi

⁶⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 1 Thorne Lane Sat DS2.vpi

⁷⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 2 Copse Rd AM DS2.vai

⁷¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 2 Copse Rd PM DS2.vai

⁷² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 2 Copse Rd Sat DS2.vai

⁷³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 3 Houndstone AM DS2.vai

⁷⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 3 Houndstone PM DS2.vai

⁷⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 3 Houndstone Sat DS2.vai

Table F.4 - Preston Road- Roundabout (Option 2, 48m ICD, 2011)

Arm	AM ⁷⁶		PM ⁷⁷		Sat ⁷⁸	
	RFC	Q	RFC	Q	RFC	Q
A: Western Avenue (North)	0.659	1.9	0.724	2.5	0.779	3.4
B: Preston Road East	0.743	2.8	0.879	6.4	0.803	3.9
C: Bunford Lane (South)	0.667	2.0	0.808	4.1	0.887	7.2
D: Lufton Way (West)	0.414	0.7	0.701	2.3	0.592	1.4
Inclusive Delay (mins)	405.1		697.5		725.3	

Table F.5 - Preston Road- Roundabout (Option 2, 58M ICD, 2011)

Arm	AM ⁷⁹		PM ⁸⁰		Sat ⁸¹	
	RFC	Q	RFC	Q	RFC	Q
A: Western Avenue (North)	0.629	1.7	0.679	2.1	0.740	2.8
B: Preston Road East	0.611	1.5	0.723	2.6	0.664	1.9
C: Bunford Lane (South)	0.598	1.5	0.725	2.6	0.797	3.8
D: Lufton Way (West)	0.396	0.7	0.639	1.7	0.521	1.1
Inclusive Delay (mins)	316.5		476.4		504.4	

Table F.6 -Asda Traffic Lights (Option 2, 2011)

Arm	Lane	AM ⁸²		PM ⁸³	
		RFC	Q	RFC	Q
A: Preston Road (East)	S/L	0.480	5.8	0.669	8.3
B: Asda	L	0.308	1.1	0.437	1.8
	R	0.343	1.4	0.660	3.3
C: Preston Road (West)	S	0.510	6.2	0.635	8.0
	R	0.073	0.1	0.341	0.6
PRC / Inclusive Delay (mins)		94.2% / 281.5		48.2% / 540.8	

⁷⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 4 Preston Rd 48m AM DS2.vai

⁷⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 4 Preston Rd 48m PM DS2.vai

⁷⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 4 Preston Rd 48m Sat DS2.vai

⁷⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 4 Preston Rd 58m AM DS2.vai

⁸⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 4 Preston Rd 58m PM DS2.vai

⁸¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 4 Preston Rd 58m Sat DS2.vai

⁸² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 9 Asda AM DS2.voi

⁸³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 9 Asda PM DS2.voi

Table F.7 - Bluebell Rd Roundabout (Option 2, 2011)

Arm	AM ⁸⁴		PM ⁸⁵		Sat ⁸⁶	
	RFC	Q	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.795	3.8	0.841	5.1	0.817	4.3
B: Trading Estate	0.028	0.0	0.203	0.3	0.152	0.2
C: Bunford Lane (South)	0.379	0.6	0.799	3.8	0.666	2.0
D: Bluebell Rd	0.684	2.1	0.483	0.9	0.477	0.9
Inclusive Delay (mins)	353.3		496.7		389	

Table F.8 – Westland’s Roundabout (Option 2, 80m ICD, 2011)

Arm	AM ⁸⁷		PM ⁸⁸		Sat ⁸⁹	
	RFC	Q	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.686	2.2	0.471	0.9	0.449	0.8
B: Bunford Lane (East)	0.085	0.1	0.895	7.5	0.115	0.1
C: Western Relief Road (South)	0.350	0.5	0.866	6.0	0.563	1.3
D: Cartgate Link	0.723	2.6	0.597	1.5	0.423	0.7
Inclusive Delay (mins)	301.2		671.7		189.2	

Table F.9 – Bunford Park (Option 2, 2011)

Arm	Lane	AM ⁹⁰		PM ⁹¹	
		RFC	Q	RFC	Q
A: Western Relief Road (East)	L	0.0	0.0	0.089	1.0
	S	0.893	18.8	0.654	8.7
B: Bunford Park	R	0.0	0.0	0	0
C: Western Relief Road (West)	S	0.673	7.8	0.653	7.5
	R	0.925	18.7	0.615	3.7
PRC / Inclusive Delay (mins)		6.9% / 1442		48.2% / 459	

⁸⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 5 Bluebell Rd AM DS2.vai

⁸⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 5 Bluebell Rd PM DS2.vai

⁸⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 5 Bluebell Rd Sat DS2.vai

⁸⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 6 Westlands 80m AM DS2.vai

⁸⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 6 Westlands 80m PM DS2.vai

⁸⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 6 Westlands 80m Sat DS2.vai

⁹⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 7 Bunford Park AM DS2.voi

⁹¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 7 Bunford Park PM DS2.voi

Table F.10 – Lysander Road Roundabout (Option 2, 2011)

Arm	AM ⁹²		PM ⁹³		Sat ⁹⁴	
	RFC	Q	RFC	Q	RFC	Q
A: Western Relief Road (West)	0.829	4.6	0.781	3.4	0.625	1.7
B: Watercombe Lane (North)	0.224	0.3	0.540	1.2	0.208	0.3
C: Lysander Road (East)	0.552	1.2	0.866	5.9	0.770	3.3
D: Watercombe Lane (South)	0.540	1.2	0.626	1.7	0.425	0.7
Inclusive Delay (mins)	380.0		575.8		329.9	

⁹² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 8 Lysander Rd WSP AM DS2.vai

⁹³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 8 Lysander Rd WSP PM DS2.vai

⁹⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Actual\DS2\Jct 8 Lysander Rd WSP Sat DS2.vai

APPENDIX G

Operational Assessment

Option 2, 2011 with Local Attenuation

G. Operational Assessment:

OPTION 2, 2011 WITH LOCAL ATTENUATION, ACTUAL TRAFFIC FLOWS

Table G.1 - Thorne Lane – Priority Junction (Option 2 Minus Local Trips)

Arm	Lane	AM ⁹⁵		PM ⁹⁶	
		RFC	Q	RFC	Q
A: Thorne Lane (East)		-	-	-	-
B: Thorne Lane (West)	L	0.124	0.1	0.100	0.1
	R	0.330	0.5	0.157	0.2
C: Western Avenue	R	0.050	0.1	0.143	0.2
Inclusive Delay (mins)		40.2		27.8	

Table G.2 - Copse Road- Roundabout (Option 2 Minus Local Trips)

Arm	AM ⁹⁷		PM ⁹⁸		
	RFC	Q	RFC	Q	
A: Western Avenue (South)	0.211	0.3	0.259	0.3	
B: Copse Road	0.096	0.1	0.530	1.1	
C: Western Avenue (North)	0.584	1.4	0.222	0.3	
Inclusive Delay (mins)		114		114.2	

Table G.3 – Houndstone Retail Park- Roundabout (Option 2 Minus Local Trips)

Arm	AM ⁹⁹		PM ¹⁰⁰		
	RFC	Q	RFC	Q	
A: Western Avenue (North)	0.365	0.6	0.319	0.5	
B: Stourton Way	0.262	0.4	0.234	0.3	
C: Western Avenue (South)	0.346	0.5	0.548	1.2	
D: Retail Park	0.014	0.0	0.102	0.1	
Inclusive Delay (mins)		100.6		137.9	

⁹⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 1 Thorne Lane AM DS2 Att.vpi

⁹⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 1 Thorne Lane PM DS2 Att.vpi

⁹⁷ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 2 Copse Rd AM DS2 Att.vai

⁹⁸ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 2 Copse Rd PM DS2 Att.vai

⁹⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 3 Houndstone AM DS2 Att.vai

¹⁰⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 3 Houndstone PM DS2 Att.vai

Table G.4 - Preston Road- Roundabout - 58 Metres (Option 2 Minus Local Trips)

Arm	AM ¹⁰¹		PM ¹⁰²	
	RFC	Q	RFC	Q
A: Western Avenue (North)	0.592	1.4	0.611	1.6
B: Preston Road East	0.574	1.3	0.661	1.9
C: Bunford Lane (South)	0.569	1.3	0.673	2.0
D: Lufton Way (West)	0.373	0.6	0.564	1.3
Inclusive Delay (mins)	282.9		383.3	

Table G.5 -Asda Traffic Lights (Option 2 Minus Local Trips)

Arm	Lane	AM ¹⁰³		PM ¹⁰⁴	
		RFC	Q	RFC	Q
A: Preston Road (East)	S/L	0.470	5.6	0.640	7.7
B: Asda	L	0.298	1.1	0.427	1.7
	R	0.334	1.3	0.638	3.0
C: Preston Road (West)	S	0.494	6.0	0.607	7.5
	R	0.069	0.1	0.301	0.5
PRC (%)/ Inclusive Delay (mins)		100.7% / 269.7		54.8% / 491.1	

Table G.6 - Bluebell Rd Roundabout (Option 2 Minus Local Trips)

Arm	AM ¹⁰⁵		PM ¹⁰⁶	
	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.756	3.0	0.786	2.6
B: Trading Estate	0.025	0	0.174	0.2
C: Bunford Lane (South)	0.360	0.6	0.735	2.7
D: Bluebell Rd	0.647	1.8	0.433	0.8
Inclusive Delay (mins)	306.9		389.2	

¹⁰¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 4 Preston Rd 48m AM DS2 Att.vai

¹⁰² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 4 Preston Rd 48m PM DS2 Att.vai

¹⁰³ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 9 Asda AM DS2 Att.voi

¹⁰⁴ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 9 Asda PM DS2 Att.voi

¹⁰⁵ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 5 Bluebell Rd AM DS2 Att.vai

¹⁰⁶ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 5 Bluebell Rd PM DS2 Att.vai

Table G.7 – Westland’s Roundabout (Option 2 80m ICD Minus Local Trips)

Arm	AM ¹⁰⁷		PM ¹⁰⁸	
	RFC	Q	RFC	Q
A: Bunford Lane (North)	0.649	1.8	0.443	0.8
B: Bunford Lane (East)	0.079	0.1	0.823	4.4
C: Western Relief Road (South)	0.336	0.5	0.803	4.0
D: Cartgate Link	0.692	2.2	0.554	1.2
Inclusive Delay (mins)	269.0		505.0	

Table G.8 – Bunford Park (Option 2 Minus Local Trips)

Arm	Lane	AM ¹⁰⁹		PM ¹¹⁰	
		RFC	Q	RFC	Q
A: Western Relief Road (East)	L	0.0	0	0.089	1.0
	S	0.893	18.8	0.654	8.7
B: Bunford Park	R	0.0	0.0	0	0
C: Western Relief Road (West)	S	0.673	7.8	0.653	7.5
	R	0.925	18.7	0.615	37
PRC/ Inclusive Delay (mins)		6.9% / 1442.6		48.2%/459	

Table G.9 – Lysander Road Roundabout (Option 2 Minus Local Trips)

Arm	AM ¹¹¹		PM ¹¹²	
	RFC	Q	RFC	Q
A: Western Relief Road (West)	0.785	3.5	0.749	2.9
B: Watercombe Lane (North)	0.208	0.3	0.505	1.0
C: Lysander Road (East)	0.524	0.1	0.826	4.5
D: Watercombe Lane (South)	0.511	1.0	0.598	1.5
Inclusive Delay (mins)	326.8		497.2	

¹⁰⁷

¹⁰⁸

¹⁰⁹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 7 Bunford Park AM DS2 Att.voi

¹¹⁰ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 7 Bunford Park PM DS2 Att.voi

¹¹¹ P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 8 Lysander Rd WSP AM DS2 Att.vai

¹¹² P:\GBCFA\TP\HB\Projects\5037876 - YWC Study\Model Assessments\2011\Attenuated\DS2\Jct 8 Lysander Rd WSP PM DS2 Att.vai

APPENDIX H

Modelled Junction Options

H. Modelled Junction Options

Junction	Option	Result (max RFC or PRC)		Option Flows	Pref Solution
		AM	PM		
Thorne Lane	Three arm Priority Junction (existing situation)	1.312	2.700	2002	
	Realigned priority junction in parallel with future development making Thorne Lane West the minor arm	0.320	0.170	DM 2011	✓
Copse Road	Three arm Priority Junction (existing situation)	0.788	1.332	DM 2011	
	Three arm Roundabout all movements	0.610	0.552	2011 Opt 2	✓
	Signalisation	82.4%	102%	2011 Opt 1	
	Offset three arm Roundabout with straight through movement for north-south traffic along Western Avenue	0.335	0.410	2011 Opt 1	
Houndstone Retail Park	Four arm Roundabout all movements (existing situation)	0.365	0.599	2011 Opt 2	✓
	Traffic Signals	32.9%	51.3%	2011 Opt 1	
Preston Road	Four arm Roundabout all movements (existing situation)	0.815	0.804	DM 2011	
	Traffic Signals	34.7%	9.3%	2011 Opt 1	
	Four arm Roundabout enlarged ICD	0.629	0.725	2011 Opt 2	✓
	Four arm Roundabout, existing ICD with enlarged circulating c'way	0.743	0.879	2011 Opt 2	
Bluebell Rd Roundabout	Four arm Roundabout all movements (existing situation)	0.795	0.841	2011 Opt 2	✓
	Traffic Signals	70.6%	38.9%	2011 Opt 1	
Westland's Roundabout	Four arm Roundabout all movements (existing situation- 64m ICD)	0.864	1.273	DM 2011	
	Enlarged four arm Roundabout (80m ICD)	0.723	0.895	2011 Opt 2	✓
	Four arm Roundabout, existing ICD with enlarged circulating c'way	0.673	1.243	2011 Opt 1	
Lysander Rd Roundabout	Four arm Roundabout (existing situation)	0.817	0.818	DM 2011	
	Traffic Signals	14.4%	1.6%	2011 Opt 1	
	Four arm Roundabout enlarged ICD	¹ 0.829	0.866	2011 Opt 2	✓

¹The increase in RFC in the Do Something 2 option relative to the Do Minimum option have occurred as a result of significant changes in flow pattern at the Lysander Road junction.

APPENDIX I

Road Safety Audit

I. Road Safety Audit Location Plan

